

SYMBOL	Normal_pool_A.AVG_Signal		Normal_pool_B.AVG_Signal	
	Normal_13.AVG_Signal	Normal_43.AVG_Signal	Tumour_55.AVG_Signal	Tumour_56.AVG_Signal
	Tumour_56.AVG_Signal	Tumour_60.AVG_Signal	Tumour_64.AVG_Signal	Tumour_66.AVG_Signal
	Tumour_66.AVG_Signal	Tumour_68.AVG_Signal	Tumour_69.AVG_Signal	Tumour_72.AVG_Signal
7A5	148.497497694754	126.103561089901	148.13657736444	149.091925032548
	145.530904040477	146.143941384453	164.659092629962	154.193086881801
	133.802898895457	146.944628763232	130.390722272955	155.883386742315
A1BG	142.77817647952	162.484777758676	160.27511502306	135.934976183762
	146.171094379173	141.779801021888	162.586012723045	138.824082857747
	140.163936299053	139.609751976657	145.625205055601	145.442914818456
A1CF	140.775447163954	146.311966562883	131.972669163481	142.902838068479
	143.569894807386	136.244995503799	138.017249996128	134.060214479265
	143.785769607842	132.164132609317	137.27298184582	133.150660840801
A26C3	141.308299074832	140.510889880872	141.609037401299	143.447768653042
	136.754116864655	143.13304460184	138.22823004719	135.771423315597
	140.622130978368	138.82269002406	139.159510392614	132.996622574111
A2BP1	128.604270382206	134.527165454543	132.741859397511	126.482660154852
	130.249430984172	126.180714796187	126.566165822427	129.455347273068
	130.114464233633	126.531502877517	130.564962937297	130.874283538818
A2LD1	186.156006020985	170.941404165185	143.772376623996	170.590817818414
	303.724140156439	173.790848780011	172.521737547052	162.085813676373
	204.770742504612	166.606522485953	176.340265963032	212.5119818331
A2M	7699.37963536892	7992.84111657183	3515.36256599555	5361.3600315322
	565.609400092543	1810.68433539154	605.583144451322	2698.5455305009
	2723.55722258794	505.404271675438	619.75986112089	744.523059417351
A2ML1	103.09089100768	122.460829835477	108.404733392914	101.316813921703
	121.067907968175	113.222264855561	122.996616773523	170.376620730856
	206.35895739543	1880.35608492553	158.002906093899	109.599589420575
A3GALT2	129.487458179949	134.758752741831	142.677386111317	
	150.198869833614	135.127041919869	143.772376623996	152.207601283271
	138.737332306848	141.703410265546	150.756776447358	124.772219140795
	135.99579763634			
A4GALT	366.408565514304	336.212224495877	249.339449789861	
	371.00603789759	515.327420453564	140.664303738113	545.566596665916
	162.082166316002	340.193863653875	277.406445570925	357.972320648217
	130.574019477669			
A4GNT	156.71199811686	136.504438803108	151.627496656808	141.047709861055
	165.737618983611	147.038700869156	145.82249684619	166.341564850299
	149.962143642332	134.201392031199	169.220974415101	155.069048442532
AAA1	137.06192448185	134.224781719944	135.105147647223	133.682715540066
	133.906867716171	132.741859397511	136.77666893627	134.452938571435
	128.318545300038	126.728375196449	136.436762791912	139.870306695324
AAAS	196.16056297158	200.506615977654	207.718619151226	212.312154721246
	252.514569129392	148.424970450231	175.442400672352	179.060189557496
	180.986305037222	167.764352429391	220.578790067967	175.857952663383
AACS	162.327039624723	157.155105022743	149.999838961906	152.654938328424
	231.314944217099	234.661864595717	195.16856673253	178.928873342925
	209.487240895674	327.324711245289	189.840366340622	219.441959146815
AACSL	179.389797867379	161.577683729655	155.07594431078	162.06940121135
	149.832456450186	162.259941098076	166.040918339519	147.54950981909
	158.14434287956	185.661496988658	166.835922279372	169.612203020686

AADAC	152.818046945164	143.607579034109	154.011708696954	142.976123206776
	174.717158790668	237.171424222756	149.622695843398	198.863347487219
	147.218415065692	143.338628928675	145.892876412762	133.268239762624
AADACL1	232.276667029184	230.91747428831	246.989526028884	
	233.464856303761	309.798246248863	293.986292438714	283.191303666907
	352.22815095475	439.727046291381	257.5097052677	315.863232876382
	332.798130757632			
AADACL2	157.010145291837	144.259643132933	155.290648078877	
	148.729753117861	137.549175595441	135.536810684197	140.916876460413
	142.261639670072	154.466614452651	151.09974848374	146.129805607031
	149.615585907229			
AADACL3	119.057157701097	129.340996658802	140.020294940544	
	173.408784502027	132.906201428703	136.482609639417	133.667852983262
	148.388093331273	126.247378598596	132.087183382523	115.80656409185
	133.404671629495			
AADACL4	140.330400168187	120.686906898624	138.947760022173	
	124.134916773123	119.049388179929	120.428171428188	120.201521341263
	114.826501559828	129.121598974852	123.926293128246	139.293775885106
	120.77691423934			
AADAT	190.809584998617	189.307823427362	242.037132958656	185.154876233931
	155.53992663898	300.358738353443	262.349315496653	294.653534388707
	202.622747952763	144.727773039491	187.893420010787	271.989060206794
AAGAB	431.413030534188	427.637083424453	326.055727207966	368.879825610754
	434.792010353541	503.757797957538	508.127470400078	400.23671843715
	419.4017188518	273.61337724143	525.287367366192	603.906237227931
AAK1	186.268881719287	172.583615020042	185.071775840607	163.885645883066
	236.292053621233	247.236004734567	202.524668687686	206.999289979742
	189.0608798771	619.995008098949	212.959246855759	205.341121539273
AAMP	480.101253056873	470.578335285993	483.174262289559	524.725307261999
	600.162650426961	400.98290237416	565.059609779245	415.113340335205
	563.490027149224	429.268202514543	528.767644181119	490.464012303239
AANAT	110.024815508703	110.536316697732	104.780306305981	118.21084414402
	114.960460615926	105.925737068775	122.089332300031	115.80656409185
	106.393497890486	114.378420394004	120.497796762933	104.154182930018
AARS	3019.57419253979	2758.01526530661	3083.98169220838	3219.27851139047
	2648.41012401723	1382.12750708801	2794.89048827025	1637.66306286151
	2715.55326746591	3033.50962589321	1727.7144253077	1336.75600604068
AARS2	283.163770658619	289.21739941764	263.47760086159	328.33387481068
	290.867822301134	242.221324619171	408.758021864761	287.703569453502
	416.933146258428	280.127735578097	281.44159425243	299.935166870211
AARSD1	561.062594540005	619.635734567779	589.409235971915	
	779.623566217277	325.642275889649	461.229315272354	384.566987097657
	620.760947818536	461.413469623811	365.140886302762	301.369680426563
	369.275635424092			
AASDH	252.222481637238	230.053292316517	269.853718252574	222.156471143857
	221.18757533703	231.769926214655	299.513950278952	273.353254857377
	265.712482648121	225.4575611466	224.981439707657	198.925776755081
AASDHPPT	284.715092831843	265.110264596425	309.283897272661	
	250.885949055834	254.517135747445	319.685597963267	412.648926259488
	326.055727207966	300.602422224047	409.592855687405	364.331860640225
	419.690542859168			
AASS	214.295260811046	184.223623297663	227.092319765009	191.38608906576
	158.74180418577	164.389447533163	230.015981563049	141.181931072161
	171.130215858803	187.069074575776	164.332073056902	158.826907233022

AATF	401.267425721838	435.037306125887	468.496972957503	548.014025722956
	651.43207839949	517.42417250172	685.354305381323	818.761934233826
	596.3549500121	413.398641688413	616.014975366684	442.334886941795
AATK	167.164675439456	162.10411532202	162.819608252826	170.035994634371
	154.227433553131	156.123528587917	170.202597821861	170.636731478608
	154.935741493562	159.154102271517	166.863589702453	166.788336808924
ABAT	126.256716138724	128.533900744619	134.640783050966	130.735223763219
	160.892163220381	172.783430414523	180.867208892996	131.308384127079
	152.952479729682	128.289680999565	252.593574250965	183.26554404668
ABCA1	2135.04382065446	1742.84803427086	2267.0818302379	1619.67820476414
	1179.42590997099	378.037190077449	1169.43742964112	826.314416168552
	1736.03342040646	412.129826478453	920.083835296898	365.441289363381
ABCA10	168.783725505491	163.074919710259	173.951605889009	
	159.0794075765	131.532660547328	145.654559623732	150.132420238581
	162.620593985693	161.481227197715	135.982797108848	163.102043862117
	212.591357254196			
ABCA11	156.916784141484	154.746081871718	155.268650584431	
	154.598520288855	133.138744413911	153.328585916625	154.524588318927
	164.905467905433	159.320692108734	150.203281104753	164.991522994763
	175.469375624274			
ABCA12	114.084543168359	125.025064237439	116.5272207025	
	115.002176041974	116.514299377365	114.790717658188	115.491262364277
	114.334059060506	121.144174389418	170.233084517898	131.114995025516
	112.666812944192			
ABCA13	120.170269310738	115.649568330705	107.221547998974	
	105.712302595131	138.680447175582	115.041324824728	112.456644814178
	144.642717750351	118.578205738502	220.098071755353	138.116568200293
	111.10737497653			
ABCA2	174.866036336378	177.862368731138	153.271518348258	191.029458520006
	188.062732621031	127.04217189075	142.643027992419	135.507247740621
	131.302225305148	141.470472968171	182.969563278473	147.369111678068
ABCA3	263.448958595597	301.591430919567	327.010503005631	313.412131722189
	237.641190133427	156.702300398105	163.904137395349	179.432235153344
	190.031339775209	157.895460674072	156.128116786072	163.141010815086
ABCA4	140.113334247294	141.331397551086	151.026905311756	143.576177625265
	155.214638707046	137.510586346207	132.195666100325	132.829401072883
	153.276938815536	146.21362402936	154.594339065082	131.468537312778
ABCA5	131.22421475185	130.2867846895	127.924195488323	119.9652990395
	115.725323816619	134.053685488055	140.222121251146	126.599418127637
	124.025104622631	132.344296085487	147.132625797946	131.965184111199
ABCA6	328.680312364877	289.037033338975	330.405026390912	231.955750250711
	144.387375194186	166.582931148846	273.709160508205	252.280435525505
	166.842970309527	152.933230159216	442.334886941795	168.582192754233
ABCA7	155.011931456736	165.143417235314	144.468333012278	148.038291195414
	179.96623248843	153.398587738216	146.559502785264	162.61434899634
	160.499355902773	180.392337212428	164.022021048626	146.897528834303
ABCA8	473.60579090007	367.825328832492	351.998551165704	320.936905584424
	140.820807603291	202.887417145119	158.308558656144	174.698724064671
	161.700258550244	140.485102148597	150.339554736141	155.997210529742
ABCA9	230.399207047948	193.124599671798	224.62335524729	203.563098303937
	138.633019006784	164.690739760426	156.433603187722	162.033909093358
	158.499787920522	152.939759795631	198.783034238774	228.524222740306

ABCB1 166.173429365582 159.603586227897 127.842177770276 134.928967716193
 133.223310036542 140.965498009244 129.532122459128 143.290642777702
 137.936605651724 133.944538335319 124.513891912986 130.033927910392
 ABCB10 292.524552445564 236.164692035094 344.575967665039
 248.690121805116 273.353254857377 429.096075419528 329.82030842286
 354.705553237406 282.561381978659 303.380479700334 258.998065427002
 342.935878735854
 ABCB11 147.526701500887 151.159145294127 157.089650890944
 175.055634340766 149.173121214851 161.281195929918 141.418737063013
 178.966169998125 160.667815093292 161.922462797736 147.178598908199
 158.7912155022
 ABCB4 165.763459146818 153.585849286113 159.39197109516 152.987939791009
 132.407736899761 118.039780360151 151.09670688533 123.042372128864
 143.458937009197 142.558109812638 112.75167046116 126.595668758744
 ABCB5 98.1433670546536 105.900294919664 109.242622591321 110.553759711075
 106.066897223031 102.024765473404 110.678680817471 101.713609383766
 107.520000793184 101.761615925097 107.884870799936 105.976284291356
 ABCB6 473.057488824363 478.479988875208 602.371843434907 618.437282203498
 424.025588636796 271.615621030842 507.95331185029 256.687384001447
 241.039766283972 330.457534783492 402.366797969833 323.788197265954
 ABCB7 453.875259610173 496.328898534802 368.879825610754 708.268962600305
 325.011269531407 303.638516587721 394.65807885612 238.978845152474
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 ABCB8 133.079767347356 124.347680638586 140.951031275943 131.575356402693
 163.373180928181 142.984243805285 149.563405421366 148.012353232918
 163.239195865198 149.091925032548 131.679566454851 135.155955441604
 ABCB9 201.893722965557 222.526610842047 180.231462528702 296.75326294587
 417.731815310276 272.351487980415 263.888891822857 251.787648609546
 230.399207047948 214.132445321197 188.20675818131 245.317436234586
 ABCC1 163.558869203898 155.507030276749 150.409919207059 150.105503384881
 154.792156982219 168.443386067427 160.822287037366 157.963634535239
 158.160604786093 152.411545237204 155.878493935166 155.041173289759
 ABCC10 172.319604146201 178.819486867379 168.156002330441
 188.891032176388 260.489744360233 184.041062308263 171.795878750365
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 201.931760074628
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 141.259186690966 136.332399354517 139.734784859495 127.023543953724
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 115.30786313391 125.231476412101 116.678969343492 114.841964705981
 119.060186838239 114.504409331018 114.056147008769 123.351112976814
 114.44610607807
 ABCC13 132.971844952199 139.435000959919 156.417000271727
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 131.80257432775 140.857793157932 141.169908353507 140.125575976708
 136.614620534169
 ABCC2 148.564655847496 128.259909378964 126.806537241253 129.985797334276
 112.534864678892 131.715579653796 128.52473663996 128.630613404354
 108.483284007316 131.954310449801 137.826458479398 118.134614195753
 ABCC3 213.468420853218 229.881164774875 226.35854874278 165.960176666275
 731.284098301795 285.980446338971 573.074116810032 1294.18114559128
 959.126054626181 226.919545367682 719.369561410372 1235.75946952752

ABCC4	315.863232876382	299.390443444504	300.358738353443	271.791126011275
	222.605195861218	813.454826901794	665.106631364961	270.201322204641
	325.859917318516	203.089661928125	724.777166238211	697.97116981445
ABCC5	337.487980551006	357.140791982825	334.709049890042	320.390351199433
	274.01377986185	508.449904285771	521.215655189324	715.43295523922
	423.152420192284	302.637859140061	1114.10687039922	324.25775261173
ABCC6	136.218750083407	140.421945574721	139.675292022085	135.485867373592
	140.051904905695	145.768857553634	135.675570204709	131.326536951329
	138.266328639467	138.081268025435	141.408545519654	137.652358744527
ABCC6P1	149.483826392464	128.26423663004	147.371905597494	
	137.354782768068	143.891725249061	141.86370253437	159.012011848781
	146.112388101621	138.858138379065	141.712693059287	163.331424612891
	142.598106777707			
ABCC6P2	144.316475814221	140.946008063839	161.225608630791	
	140.115154069602	148.000706956532	164.736294372006	142.802965008073
	155.333294650676	145.937733795336	148.224587582189	162.893396525252
	161.8627732644			
ABCC8	125.593595066736	138.393565473857	111.276543583667	126.553693803748
	112.14768481333	107.580425848009	111.837468699281	105.62620788923
	110.234403581151	122.251178920649	111.204065131669	107.365390754133
ABCC9	153.118492567137	163.579282884905	165.942761337382	145.095023408224
	136.263658288289	149.127963327999	138.664401460739	143.784022884904
	162.026757124868	148.158062155247	147.338615809214	144.585120811896
ABCD1	209.596792486876	247.806371601734	155.150904036206	336.70893120135
	371.941204080246	118.740346254406	141.78867917709	139.989830921287
	165.504532455205	136.254966566424	168.111124820968	128.683044953833
ABCD2	132.649409216699	121.049927973123	131.215202712283	128.669887479835
	122.642077625035	122.989642938474	123.96665768708	132.767474034305
	123.13812550459	124.679444852938	110.925532078514	130.782296492278
ABCD3	228.675099004411	243.501083338279	241.251507026982	204.057019122032
	494.538861626895	979.019125719101	472.793332506369	474.14051635531
	888.04996477314	242.096692715029	453.875259610173	329.604568691377
ABCD4	131.984467471242	138.263361518905	134.182902752156	136.77260462185
	135.673080643346	137.52653395793	128.700516033555	133.63022526522
	136.121873179928	135.705904966172	141.917318809044	134.904123162692
ABCE1	335.239364345057	277.129985959184	300.985037429772	229.017256104437
	317.121202656311	936.221322010828	465.029298672645	602.703887178113
	654.881990232975	547.516635695872	441.578261054602	609.309339417625
ABCF1	925.009157785129	1060.24125879951	968.548243081111	1201.82026045778
	1013.60354455825	943.677679525947	972.468110850466	922.877217016704
	1033.03719406038	865.435843446989	1046.13353853089	1000.91520225219
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	196.16056297158	220.047563627558	195.618369827396	218.839681873515
	181.771654391653	233.71520737817	168.841313096346	205.821101661022
ABCF3	152.323927317575	165.219393390909	134.801507994667	184.694741621812
	251.472556189141	164.236417852165	181.578228610334	152.577131215027
	173.816408146725	165.131463797217	207.453490385508	155.247452081206
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	260.356834114611	157.13859713415	367.567681162661	179.451637129672
	242.695286989672	285.172001915966	395.133831206474	197.427788552936
ABCG2	130.208619015193	126.841836614341	105.096927149239	106.923686318112
	114.209249333221	132.576755070703	113.427848757112	107.32960937124
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ABCG4 151.325068155715 155.883386742315 159.43317827517 162.57736365619
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ABCG5 142.493119780028 160.234704406302 142.329137800558 139.258468432364
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148.435419356331 148.807422049327 133.272540012108 147.264690436042
ABCG8 154.594339065082 175.128935809466 141.094578556895 159.724824188037
182.02250582556 183.493455947795 161.094103878416 150.354401669138
161.870389635266 148.654099017805 148.42845062376 152.933230159216
ABHD1 159.26101905957 141.606501859513 130.018928906449 137.959775678716
147.617354114584 135.691862612951 147.932875151331 145.97512573326
148.446949168794 130.551216910933 147.314687795555 140.204023682096
ABHD10 364.766154056243 444.374521095495 359.256193328366
391.500696444149 232.918330930051 396.611050163857 258.036064876416
235.372592051464 304.479999301061 195.384273821324 265.536429548886
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ABHD11 142.771962099818 141.226901872221 146.058477355527
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ABHD12 263.47760086159 283.874600697211 253.463871742303
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425.229044880287 1043.14253624883 272.968792195442 744.808064061459
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ABHD13 145.142331981651 147.261153294747 148.993620368781
148.825790628891 144.472969298036 163.413365060063 142.114181233875
148.391885541349 141.33919297402 163.621658579697 148.143367490426
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ABHD14A 372.088129459528 380.821355948507 337.652945958921
386.544913399837 1228.89116158868 297.862653495715 473.60579090007
324.401611136662 334.316711893654 282.47352481715 441.435444003241
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267.422232051733 321.25076864104 183.993497813128 162.047249964859
176.830879422227 182.698275130489 160.32812671237 326.83982672544
202.343343669937
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278.737944234055
ABHD2 152.970079142629 148.532339759414 137.361967082029 140.229267364503
204.999796322451 146.470444212748 157.530573508003 183.464897811105
186.185055364718 156.581569063195 173.325724300712 154.537240112989
ABHD3 146.309171902112 135.613240463445 151.382199195953 112.590379042108
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ABHD4 237.249949461085 247.942904862478 233.809899915394 285.980446338971
218.896760804208 141.666394024363 147.8838487685 151.755205401737
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ABHD5	178.464811133	176.47556448977	149.805955402639	153.922713834296
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	306.333710880618	376.962937292973	362.899103657252	375.958347293549
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	310.426513884979	233.394506254045	220.791884858764	216.805365763069
	267.800523478098	251.011148303246	250.003965480779	198.15257384667
ABHD7	182.357065848298	173.592875508663	216.582862850259	164.253219197128
	186.563913311757	334.772648743153	181.622689471026	214.413674287972
	197.326259802349	160.469645948225	160.026178505749	162.54008293513
ABHD8	361.904370514991	370.555627307623	377.27961559752	544.669441360594
	707.715412321304	280.848426993226	340.728888109597	368.711718874343
	245.082816415008	215.532132200821	244.054469051058	271.713695056313
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	584.548578914846	165.851677392967	535.758943850734	179.358460170348
	353.774297577869	136.71484425521	239.474937674583	220.169099923628
ABI1	333.270203737291	307.363302726074	360.756455184184	302.219514290905
	324.346723939622	425.708048519408	316.722160860531	378.308562999445
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ABI2	208.363905749882	186.359770878343	202.44778603643	190.22021453133
	183.853381322135	189.142295015168	181.098584949344	185.896304740844
	179.376968970326	185.984938124891	170.035994634371	189.434597063058
ABI3	133.427561208907	167.586897846525	125.547399456656	141.181931072161
	166.592366578462	139.508029141287	127.663578933727	160.290104492275
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	1610.38263368771	132.661036963636	147.630900093277	130.143953880391
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	152.28262533486			
ABL1	837.603727062008	976.360310504918	778.846928848361	1340.79810963983
	364.022018936132	203.693188114912	199.776140037612	222.118666699301
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	142.276853170778	147.450681897766	140.085359251038	141.913001976093
	137.975369568585	247.145700155364	141.36525744062	141.710076413441
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	736.963699775724	268.568824794145	371.369895979832	321.977549744483
	373.656487297238	333.270203737291	524.640879446426	833.430847243676
	468.569725051459			
ABLIM2	153.488903967311	148.054367166566	144.81077501446	
	165.752558888845	127.00963790814	139.39442529119	120.935863853101
	138.712529531951	128.262195551255	140.856864690669	140.552143090027
	131.228779762508			
ABLIM3	276.434192872962	291.914408947328	175.437651670246	
	280.656087497806	262.691387377392	135.699583036042	204.851374931284
	148.844916975586	173.751615672365	182.624130582754	510.972389503051
	174.820064644203			
ABO	117.740022708444	114.249891266241	118.04359489354	116.983869766097
	122.452541100946	115.002176041974	116.787791109549	118.770061426689
	112.742895297124	113.582654469735	133.587927144452	115.224011128183
ABP1	122.903428611669	128.236840746655	124.329980024986	128.150801169886
	128.314990390649	125.739946257697	128.783262618114	135.188445928844
	129.476648077532	125.280736217267	129.222714748528	139.444577046509

ABR	442.493108530222	455.21285026588	399.248044997427	506.562512021352
	307.264586007015	407.442337662943	324.713347085998	641.12919339861
	307.083179338165	325.43977732888	468.170972478717	463.187551361986
ABRA	117.834484996559	111.349642316073	119.355650892262	115.587874563785
	112.936472036608	115.884253217495	114.902673141786	116.252227301161
	119.810421687953	117.958297137758	134.811625739766	118.233024867228
ABT1	183.764215745794	201.507971833902	181.229308386808	192.153420834889
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	207.598754515294	170.505553609318	210.64483507528	180.599150102184
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	394.186683910377	182.861900982333	237.734385188542	228.524222740306
	256.964577037118	245.153736298067	286.230656780335	274.736124442229
ABTB2	160.486513643798	160.573172150801	149.763038696374	155.147962740503
	238.375823012603	153.574068503306	139.825088162247	158.890522392445
	154.500326135559	162.624786423084	143.127795310829	142.22515098612
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	1932.39418448203	827.863789600981	1153.5175534971	1022.55215097491
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	151.334463063946	174.840923772532	167.933231844271	236.052008824688
	205.705962405954	163.215507313506	298.573180660083	201.748876422401
ACAD10	247.971366020963	254.359737178714	252.056131165397	
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	320.154891655397	382.186095123659	211.34069504665	347.411500022053
	293.12968694683			
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	616.014975366684	198.815448428294	387.403502892897	438.03648998391
	484.658140651032	544.107739610054	591.89966781883	256.538195034956
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	408.60092780174	223.453776362112	272.41397350779	264.628012152168
	269.673122990604	182.861900982333	344.247544510881	271.638179116269
ACAD9	342.935878735854	432.726040933545	398.512947526406	518.478990211753
	640.90860274227	316.409887372431	610.759447723026	364.964572587289
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	146.916683989962	193.124599671798	122.125746529725	134.013748718539
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	174.928155956396	324.203537490975	228.499052416183	303.483515328621
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	142.819669471009	157.848456517169	133.642815510945	166.182850621447
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	252.655315526015	359.162549472301	341.761516859319	370.390323116113
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ACBD3	653.264945856916	662.781145703653	590.142817130684	509.702881232139
	727.114956464515	793.891277937782	849.389818300305	589.953707188378
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ACBD5	124.3501719829	114.556542069712	119.968081249475	117.231243105897
	134.310685502031	141.141047405344	134.575671434471	132.418902141838
	149.987571884748	125.855451679929	137.215025712057	136.124385992905
ACBD6	267.839640412797	274.092048989484	274.120234926832	348.98762709818
	267.970798709017	220.816812192169	246.237243726748	228.797912452429
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	134.838366830668	128.79607493422	124.895023786422	133.382099379709
	137.994334667126	132.541420804792	139.853333847856	141.630183595813
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	135.313148180961	135.807494668545	126.494665743087	147.297163685914
	125.67874617392	127.171331062578	139.501279970508	128.351235762192
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	127.179420421981	120.485138937899	121.416038813102	126.501648842366
	118.970693476152	126.662329971897	138.230197299262	130.355969431473
ACCN5	138.289361041588	122.165046954625	152.72717701452	129.051642626091
	140.515996180923	142.281657284178	129.295956874012	128.077692981235
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ACCS	363.539983343859	432.969886744613	509.512410867348	480.593729033799
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	125.655823846115	129.925548182204	165.767629164724	128.798413084891
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ACE2	145.728370703165	158.325554470875	150.346002924933	150.536178574986
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ACER1	128.245734702114	130.06068534054	128.669887479835	130.321133400634
	126.22472822166	136.537117054998	131.880438747579	139.429008129291
	127.753065449769	126.536245975137	129.132523684894	117.335748689217
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	430.649188209901	543.584413650467	835.834013018438	469.930860750773
	415.113340335205	203.852316712377	446.262895953004	323.667189206453
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	162.879707592164	198.191669030952	186.722842989058	155.550532734718
	140.002249873656	159.06002608158	188.593378315122	172.774914399844
ACHE	137.904786382385	134.606126134531	143.215828010442	133.994376985194
	131.074021609161	137.584340154725	141.990639998829	133.111791289725
	144.516274148451	145.311964807443	140.326012404526	141.094578556895
ACIN1	650.263737836685	650.679096367632	662.58366387795	822.88742008931
	738.579262579782	422.338508598153	468.170972478717	564.588706307423
	568.935113269368	542.544172683021	1244.67453201339	674.571475335107
ACLY	795.720196538039	728.176339659082	596.54904286299	757.406530000489
	941.936830901588	1167.26555140613	634.774041584043	1778.73916100529
	1241.59946353857	1022.11537745428	480.923468806193	989.77058497525
ACMSD	139.470557140547	119.263824982583	126.557869929234	146.231937458616
	126.158204790885	119.866898356501	133.645044060866	111.515588041012
	130.890314257211	124.568534983277	126.649739818781	124.436549041911
ACN9	234.182164952936	237.01460308334	274.343238288436	269.673122990604
	528.650794915616	483.312894744803	380.310795921752	603.061485415867
	405.130899553871	380.146996799549	290.037325939883	549.047065540118
ACO1	1793.75125318113	1777.29626660109	2282.94927629821	2363.50330960038
	944.47112348734	552.494327858264	839.662936279727	875.7694907383
	757.877066703516	1235.02626456572	592.957842630046	646.117381960716
ACO2	460.24741151155	479.761165832339	737.843412273272	551.206833852215
	612.61438059983	571.838717184447	442.493108530222	497.269957926657
	576.451964662024	485.576566972696	612.61438059983	579.678635803225
ACOT1	203.652936507291	205.728673153914	234.738241125899	301.49286558088
	190.371287639453	138.047487233711	132.823333905679	180.561514455864
	155.456077670662	147.176801913145	172.698181201849	152.857278986877
ACOT11	211.891710626953	232.641965649602	210.550995170071	
	224.335742510577	797.73902873919	339.379250332987	477.87583927675
	515.929937825133	465.683139139622	211.438615793742	542.267204956846
	551.086785904249			
ACOT12	134.081308836364	122.447154928139	124.690141443832	
	121.661141741782	119.655162437465	117.231243105897	127.31283918221

	125.172189715764	118.122186617611	133.980792743661	150.132420238581
	125.732389000341			
ACOT2	212.78038645414	222.086635504858	283.807827536147	199.980312703646
	170.951009118578	147.211769989922	140.538020869886	178.835679834487
	139.47828235176	140.227863970629	164.181915898563	169.466129742085
ACOT4	171.071893074072	168.588120398433	153.126111237668	155.545904088857
	428.340060893467	179.55905250703	206.650760711745	335.47484353322
	313.248029961291	178.445384902129	281.570685561526	217.670330817769
ACOT6	143.814798097425	149.016767620428	146.007311764212	194.112534914308
	165.480489678822	144.026432356249	160.72962443421	161.234304237838
	150.933724024651	141.831596320865	141.235290792352	143.59105195427
ACOT7	229.017256104437	235.291035302211	211.395593720534	282.797367565702
	423.966625351913	311.848379951974	221.297127685676	373.361263985383
	326.325210657599	386.461076717316	208.869189492052	313.025250337353
ACOT8	143.086872363116	172.657668514226	163.764600217347	187.73896437823
	343.048904374136	214.100698312272	331.018914429561	190.255797389524
	200.536814571322	204.378245089766	173.635827398273	203.616580991715
ACOT9	446.194196064909	318.690043546203	372.94852645418	363.539983343859
	202.369905673351	196.777776509371	189.83433085782	231.439252571168
	239.827648772906	400.353795948162	198.681190016247	207.338645756456
ACOX1	151.961811748754	151.543678860049	164.529828080312	135.380208104863
	247.622351589081	254.133112176024	324.067396271281	631.653707589221
	546.755305058958	194.312315077985	304.985269874607	295.678097392123
ACOX2	595.120528902501	619.487800014979	991.611982265221	818.445501500731
	142.719216118914	130.616175018332	138.814930200619	152.14012587515
	172.345201438148	182.028675726969	128.435400481403	160.085325256991
ACOX3	434.176007498693	614.094097408035	374.033009122079	1085.38819961412
	408.444629429553	362.445813697676	642.934824227327	409.073045356073
	1650.77281891596	538.647888236878	541.460843251764	415.642099109855
ACOXL	121.965131419551	117.324368138398	142.603436693587	128.585911203394
	120.065876525792	147.865114383296	132.256047602234	130.625825024195
	132.210100574787	139.880733465536	168.867373925372	165.062129636008
ACP1	520.120193442648	507.236601481067	837.023434916281	418.319283832879
	895.463355957918	1350.87073284396	1666.80650105101	1870.52504853779
	1707.09830463606	1635.35544761095	911.782783698439	1527.87148052149
ACP2	322.028360309592	335.059844742031	297.071121022183	359.024299091145
	461.143361255467	215.698924670416	352.121800955822	344.298510200653
	319.812293134357	293.4021207271	344.45331938267	285.214585324341
ACP5	153.78045746564	148.452947427498	125.029516472944	131.263641389894
	360.185005480216	145.748174062159	167.724233915361	162.629257046871
	164.327140372968	231.287362732197	187.73896437823	132.277920991504
ACP6	201.517356610591	245.553138677866	234.399431238026	242.365480246106
	806.290662664708	288.88486628661	437.770841893227	526.970555181851
	383.802494922918	185.801540278924	543.710330214344	524.855915371246
ACPL2	187.407526616724	170.522853717911	174.881557472722	169.527424356913
	270.727749014046	439.928008927647	327.566026396726	518.17401959981
	323.841518852386	196.189101941489	237.825857080173	322.956882599715
ACPP	187.183762762259	164.274491958161	229.284931844047	138.712529531951
	211.369442150136	178.347708009405	179.687464522203	171.202766078337
	172.251953149975	217.531179216305	150.48236051337	158.610249594568
ACPT	147.248053518914	142.288110423886	146.698766621345	143.473523258521
	168.588120398433	159.06002608158	139.97636570613	131.696834332724
	148.838294770082	147.722646851008	168.491878435329	139.527577649638

ACR	125.187617901961	116.780639688465	119.11586630281	117.682034050478
	142.607578275494	120.188885479773	124.012439490264	120.880547922392
	130.235407859542	124.533543270311	150.380814008952	109.719356131043
ACRBP	143.458937009197	133.778595695007	131.110018165002	130.430917518283
	140.142884879106	119.822587087968	125.060387518072	188.924084292126
	168.560093633607	137.177271162749	143.116451998409	120.577995272053
ACRC	153.734347607222	148.790239150298	147.485960802692	142.440344960504
	149.133055368147	136.116468624715	138.570150372729	141.264096014725
	136.722636695506	133.697364081712	182.873752254411	144.779146672553
ACRV1	127.874934513708	129.01094835739	133.550008967009	126.629012619208
	125.390139830237	116.625518828978	124.635917999969	124.833659452957
	120.524859681034	131.468537312778	143.327730271099	125.467668442298
ACSBG1	147.87699690647	142.185903088074	141.541355091514	
	138.523677181131	140.234485088845	141.18490443471	147.088665779406
	1148.80141486692	157.484541464879	146.812248482145	155.76568091161
	367.732191251547			
ACSBG2	118.708644971927	122.494779505958	108.768730405582	
	137.840396641618	120.241528853563	108.226917034591	117.119533897652
	126.155486659114	113.769815606191	115.194730717797	112.133567992833
	118.727279917776			
ACSF2	316.955298948771	385.135014083686	292.366934378643	287.242697383558
	890.507257588957	738.087203930249	1275.43768532088	670.347447480331
	894.46029531926	173.315097944835	861.119262963015	377.462793982812
ACSF3	139.22543724535	161.700258550244	148.861141988806	149.217191121377
	182.608712782878	141.537578081123	151.511808301993	143.756242843438
	160.923897048848	150.971453664961	141.308299074832	144.685707282641
ACSL1	603.906237227931	525.138476928759	454.732029358748	455.392133846517
	618.437282203498	454.64556253724	808.55123510297	1555.28458491244
	1390.95426299323	802.017244099902	1484.32547474275	450.220658078322
ACSL3	319.868227988842	264.936739264566	348.506289278042	229.660838239474
	394.810886122555	271.989060206794	682.075583857856	277.946395491073
	664.025683218037	506.165100641525	774.442392607873	585.721610434501
ACSL4	259.575461599189	227.715558644326	241.675251479835	197.740912476527
	169.544515294662	236.676029292922	160.281830914755	223.638850960288
	580.859914041323	197.489903263216	210.316431648335	178.512206531256
ACSL5	188.231614694297	248.791254839869	202.943987922418	155.731897985566
	285.507315916663	153.104072845043	473.73182675469	704.653073777277
	934.173273294189	153.136863548105	1186.23169583595	730.042712083388
ACSL6	136.044670179122	120.606354515072	122.392159083328	123.586359806158
	121.141432480683	127.398873370484	130.288547755599	127.310437599803
	128.490341173553	122.300069045533	129.228874611916	121.45175516842
ACSM1	118.432307370605	114.308806726044	119.455615461113	108.760780994582
	110.355493122568	124.39748786803	113.214390213004	125.027095330593
	113.388450168062	108.404733392914	125.598828334465	115.613348109569
ACSM2A	124.980683327416	132.634538733205	126.841836614341	
	154.876638004094	117.455432751161	136.126542897364	133.988494850477
	136.293084080479	134.932416370825	128.179293878252	128.702882993588
	147.309245779031			
ACSM2B	139.082897743357	136.236441543681	149.72025962797	
	144.40361834862	134.479828866339	150.343825300998	141.236939351298
	136.55090238808	144.040342300793	147.255680306221	126.595668758744
	152.432477504097			

ACSM3	143.036006001419	148.816369706133	139.805930686563	137.045772853855
	190.889832855403	148.825790628891	199.933148219784	547.367381020623
	277.129985959184	145.056914913573	190.787437782456	157.776321544382
ACSM4	139.038389244329	134.42983422342	163.346402397924	136.267313223808
	124.873289279767	148.627264102939	125.146558509674	137.367390177293
	129.831076624826	145.120347147471	119.112063328364	124.277983696239
ACSM5	135.889764019762	149.974080577906	139.811873260553	155.558839375761
	140.196653553673	145.892876412762	133.387065801837	136.188868917386
	136.969124414576	137.803749343493	138.086270564406	132.433109154079
ACSS1	293.080122239022	290.914381066573	279.159925913207	312.845219991659
	197.298982267459	196.470718183575	169.16155608071	215.931781291835
	252.473612525884	177.802767772786	230.015981563049	219.318938396989
ACSS2	469.206346008875	526.726224327409	502.063888359427	638.287221212947
	346.566241319814	382.630113452429	474.750156829195	367.732191251547
	333.049612399093	583.938727139698	282.561381978659	314.292700455545
ACSS3	151.984619204523	137.234384760487	134.664652044646	159.52833930625
	129.151171025294	160.997179739138	125.863969666806	131.755881982599
	157.891350650633	145.560161803925	159.365070384451	131.447941902406
ACTA1	151.04846635538	213.674150322581	163.919426088318	294.653534388707
	127.57284871013	126.061141885666	126.845048064014	124.170242736875
	116.780639688465	109.156349683299	120.757288533244	123.884643288534
ACTA2	29868.1819370827	27501.6698286039	30573.5859783923	27501.6698286039
	1420.27222765071	2649.39312662326	541.642309122976	3829.87905458534
	5240.40795364202	4465.66734676111	1362.1486006778	2568.95060767776
ACTB	23427.4695172122	22750.0246358215	24377.1316448061	24731.0629964468
	18953.8127741918	10075.6573898939	14228.7550296952	10953.6229702446
	12654.3779830648	18562.671630167	11918.214537866	13217.7001749493
ACTBL2	134.758222337831	128.165775629664	128.0805889548	
	147.407093814154	147.829502959865	134.635645106042	119.472410874778
	130.450930089722	139.526241501184	139.966813133326	134.576622528874
	130.839508306116			
ACTC1	7786.96143641382	9994.54490550759	7838.92787031423	14755.8570847826
	129.754376995879	124.546520456419	136.220324225816	131.500591219916
	129.529372508883	133.077760160486	129.819820730239	127.715766031466
ACTG1	8881.86480594052	10836.7380675792	9099.13956219312	9560.32907282993
	15745.699731183	18760.3823237058	16925.9167115963	15745.699731183
	13324.7465248375	20381.3859535625	10250.645112753	18146.8167991873
ACTG2	26522.0142925211	25295.5071561111	29532.7890259497	25808.3502428915
	358.654569870431	1265.88446775977	151.364528898537	768.67030514096
	1804.63762008613	938.499337889075	212.933062534244	585.234286698678
ACTL6A	369.974231530826	380.888728347647	502.499539192864	
	302.601458409102	676.570119607984	1461.64901688125	743.023225859813
	1411.90426595229	1298.60552708737	915.015154168627	766.420275252501
	1151.89087953837			
ACTL6B	129.971670681199	130.753793881071	162.961792330623	
	138.215708514725	135.143532936828	116.566190779365	149.219602109121
	152.56002779985	134.648780131578	131.001996509052	153.630125822178
	136.042982529628			
ACTL7A	114.835386789236	104.36042819601	105.859916438163	
	113.840813583258	111.373854978307	112.771141378159	105.164790181452
	98.1433670546536	114.977135060317	122.828060462887	124.003914369077
	113.018985316061			
ACTL7B	140.260053206523	143.025570700585	149.839827383681	
	158.414776465951	156.704278982517	163.170983091116	145.273209648677

	137.824985884649	132.899305777714	163.799748670842	152.188770978528
	146.539196738195			
ACTL8	120.714981493593	128.563180697606	109.851507510788	117.348231147283
	239.31180635241	132.28931085483	132.864018034342	130.0140921487
	112.509731206295	130.316282003711	148.530422089937	128.666652639862
ACTN1	7104.65816621275	7167.29945083872	7771.28016059011	9272.37780151073
	1141.13648305827	580.859914041323	707.173691257322	731.848844821402
	1038.93733638848	2473.22803972431	246.049729366987	705.737228226014
ACTN2	182.919385608842	148.255769084026	162.857083430123	133.186678625229
	134.596391166462	131.056011738962	142.041992878641	128.217078449064
	138.18056202179	153.721460633166	127.814109293214	144.077080621909
ACTN3	124.672483602517	113.077691687266	119.972337070176	117.992729826121
	117.097159106043	120.456817031716	121.95061962467	109.46255295836
	111.949644842971	103.36057518781	147.710252756854	108.362609680556
ACTN4	1800.25771851544	2203.82462320864	1007.41624313399	2882.51330563735
	2915.72823797537	1024.95957828641	1125.28599595312	715.638378711433
	1140.40904196731	853.535700321202	1205.45751308367	731.848844821402
ACTR10	738.579262579782	628.485648053393	828.683748921915	
	609.100385482325	558.810095726517	587.54075434249	679.557656724243
	837.413261433363	568.555967950896	969.360864006371	685.354305381323
	754.97177863997			
ACTR1A	855.415038498392	1183.82018168635	1069.25265476373	
	1603.87451959083	597.952909577121	471.15333189869	495.655170027296
	470.868288641048	514.213675499369	493.209107049493	653.749043828462
	617.474181543858			
ACTR1B	697.97116981445	669.731546951281	648.823677010146	
	676.570119607984	629.97342429259	419.763812610671	312.961981998512
	391.185365567603	443.853458865556	387.908774438461	424.495400604335
	406.54518900348			
ACTR2	1796.26091584668	1515.38811502277	2233.00694575483	1104.61581891596
	1530.45813438919	3883.05620256963	2856.14739820295	4465.66734676111
	2080.47567326037	2956.63335018838	3304.82581034038	3253.76017336684
ACTR3	1119.71228054585	913.934874451961	1160.78730097715	989.396074034945
	457.650982600462	1125.95664591686	895.114975754684	922.50743596248
	726.731270955732	1165.95924778817	1281.1883621512	1213.06007305892
ACTR3B	149.019120812629	143.270153772245	155.964242240771	
	150.734560844391	166.570606752678	160.76044995335	148.866229889479
	152.122141650397	146.75924072364	154.499313851756	151.855884026072
	159.838626443912			
ACTR5	176.355556618289	191.322056430728	187.352655464866	215.81995779019
	222.565515020501	248.010317392179	233.103476996669	250.626556981376
	228.926077117474	221.231455446574	274.595218795127	227.64196401771
ACTR6	421.459312180809	463.622673539254	472.030150842569	415.322560616847
	617.185364180303	562.089999265955	667.892385395063	659.106229917309
	558.810095726517	442.698000781597	123.344450694117	494.875547886209
ACTR8	193.008902902654	170.202597821861	198.925776755081	184.611146047556
	180.941090529551	200.342786450248	205.4648759901	197.308952757609
	227.587590278412	207.764456828813	194.388383297922	213.634295832535
ACTRT1	165.149464497921	184.801068553988	167.806420483187	
	194.686527131656	187.955617187544	194.112534914308	183.545741265706
	178.819486867379	175.452986514346	188.924084292126	192.59376129133
	163.463191619941			
ACTRT2	119.950579480571	100.04568139926	118.32560379073	
	112.832122823829	119.131613164405	114.056147008769	132.398041172151

	126.401145439668	122.223184326586	128.438401976279	125.050945917101
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ACVR1	1212.55338792557	902.822697602452	833.841469195516	783.373390305885
	444.826775824095	533.893360199271	366.636754272029	367.644907862372
	384.566987097657	740.973440818582	422.590112942156	571.838717184447
ACVR1B	180.641419603362	183.513101761782	166.014450044695	
	178.222120802125	235.407064742194	216.05364037271	188.580458613357
	198.681190016247	272.16090053595	231.600532144945	212.016247864691
	230.424145472916			
ACVR1C	143.035245560484	167.521700144143	141.042265614693	
	128.005043478952	159.920703254935	134.838366830668	143.313605534609
	143.336538157639	155.290648078877	171.410912120195	157.547814187442
	164.332073056902			
ACVR2A	278.555009982029	290.502085667398	359.363523948825	
	285.402072939954	208.816482659752	440.203336761263	255.945470052489
	388.710465457313	289.517820913799	161.841975820372	220.710324965453
	288.026656721827			
ACVR2B	131.876061826583	133.593569062647	120.060776752215	
	137.927403204849	154.618685493541	127.789230402245	131.280092370361
	117.856184272322	121.286130275542	123.689439578326	146.763046352405
	136.067657949844			
ACVRL1	476.641032594868	410.954095610904	190.645917992472	
	358.897128592042	220.047563627558	210.729945718068	180.578528984075
	228.968779778407	279.159925913207	232.250434241457	188.348499229585
	187.264411519101			
ACY1	159.867178630115	207.764456828813	155.119146797226	183.193029399643
	1856.05025952611	595.120528902501	400.621427274425	438.340341490622
	485.731287873723	394.101052511043	320.877897822963	835.284130042504
ACY3	108.868679899494	114.812254477058	106.900679222135	118.000757530896
	123.720229113779	112.949643549398	113.018985316061	115.582048644075
	111.457176315964	113.799997627317	111.876915242732	112.252555403121
ACYP1	240.12078342024	216.181417552574	232.778488697337	233.997642139328
	240.054164412429	250.037172478288	220.999383789474	332.194163016646
	241.353916553991	287.593221911064	239.845747958475	397.985856484851
ACYP2	209.887047474042	224.027605834751	260.787104931135	218.031238893075
	240.734451149197	238.548578086943	226.387465899611	227.375773052577
	216.903719298575	244.925472495705	214.200081541057	265.61506544085
ADA	242.848821222611	187.183762762259	191.628693083169	245.082816415008
	250.647644543963	336.120322555703	272.456310079164	176.579096613849
	252.404931238338	590.849222581206	166.988725688589	215.219246394594
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	148.794293762142	146.390223079987	150.648444878067	141.895211025017
	133.606068125828	124.922004609558	124.447971788029	145.78573175226
ADAD2	116.241531823869	121.619593453259	119.952108688414	115.878861991823
	148.49560238679	132.411757518105	129.299810898979	118.430401197079
	167.505381046729	115.80656409185	158.799917136119	136.728975205893
ADAL	196.615914367563	187.997940126066	208.095384605737	189.419941381565
	155.124158030085	182.074569356713	165.244616507084	166.730974538475
	162.466301774088	161.250520154112	160.251996476232	187.73896437823
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	155.463400179872	178.885625009973	387.355661073935	349.623729591612
	312.601510033941	663.668537495345	269.673122990604	353.285905782951
	650.494111214312			

ADAM11 131.747367613225 124.079745873727 144.529801006864
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ADAM12 140.301389592487 146.518478800271 152.204730003016
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142.33269270703

ADAM15 442.12886967939 716.229989890801 385.888395433066
755.79669622705 4602.81651147558 1219.36024606325 545.362650746876
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ADAM17 406.54518900348 395.588345893987 326.246702537465
398.571054759451 441.001837510132 445.214621023114 373.096629378654
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ADAM19 858.020739710943 664.60530723006 761.89271251455
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ADAM20 114.749597426757 129.16337177104 114.589757401741
120.174672871542 132.133979108537 122.706176540192 123.893768254549
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121.347339077474

ADAM21 132.70643154246 123.96665768708 129.502730573463
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ADAM28 126.766964875664 130.092881020271 127.871445879091
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ADAMTS12 123.361179535626 130.877306095063 117.539640414775
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ADAMTS13 128.116394188709 126.401775332213 121.30744400137
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126.310788291075 117.639216182057 125.810756286648 134.262346867514
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ADAMTS14 143.155998311198 137.864637728155 130.272086123019
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ADAMTS17 156.994265858123 148.350919010575 154.947359473187
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ADAT3	181.966110264509	167.315702949236	156.942156078314	164.48570046081
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	139.515794685984	141.272049404557	139.571752933877	143.137158027738
ADCK1	255.413231082357	275.437030326768	282.282663608264	378.151202933526
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	202.458096827378	212.312154721246	192.627266049516	213.652091843896
ADCK2	404.54681330209	438.03648998391	422.973606694449	433.405369327168
	1557.00226259883	660.535644289024	946.273229715791	986.441377365124
	833.841469195516	491.112594297928	712.94845413251	1018.38836615952
ADCK4	161.803438841859	190.405863264717	158.679903271595	251.787648609546
	512.184962338131	271.004741629789	217.748916080172	200.741234443918
	184.398672994943	156.073428882485	199.490190715307	171.869472272081
ADCK5	183.397833894087	194.337080066417	162.689415085423	165.82215325714
	232.385176936256	172.468440317443	168.018785514306	221.272872023413
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ADCY1	154.792156982219	142.234554325754	144.975347788913	142.416237823488
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ADCY10	127.233439204926	141.213588194832	140.226586111216	
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ADCY2	142.063338490772	146.291932367254	155.52533851273	142.299535614113
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	142.75592155869	130.642810886161	137.773960847088	132.087183382523
ADCY3	1237.56662467492	1379.26881813339	517.529147171876	961.931130189779
	1177.70376288106	1324.56751399862	657.058213650454	831.610501402173
	673.824770556885	1012.44277312494	294.323621186916	882.798927428142
ADCY4	331.464977124667	422.840163973614	220.742788129847	336.380724981693
	130.927299997874	177.72965427263	128.593112520767	194.488249052694
	241.203521822269	156.262515148436	212.107842040568	144.920107068083
ADCY5	228.100112133941	193.95909424044	223.872330412144	242.188218870393
	143.795399778897	150.993910190626	143.969566798989	163.298729857831
	146.720204808211	143.683545371898	155.004104153679	156.430981244063
ADCY6	284.891415492568	347.866264631778	256.022057262325	356.699466789374
	429.922530506572	206.753993163216	391.569187190375	299.851173200352
	392.746574862867	188.654966029389	444.374521095495	240.376851873817
ADCY7	172.552923333095	172.222262910052	174.560168983121	187.325542100762
	151.958818313561	142.768691899824	155.52533851273	154.71904132098
	196.759802659759	302.272304483941	232.621526025603	173.735045816949
ADCY8	142.411117330429	137.597788349982	150.717996520257	157.061602966797
	134.216088147701	141.272049404557	135.507247740621	135.670409501435
	150.43722766614	145.085091507228	147.140771901106	152.247504238261
ADCY9	359.440639663655	396.988248940183	385.379119927642	431.686900474971
	144.436358527414	125.738320262644	180.20999937977	127.368207232723
	142.483308497682	144.916193282062	145.826955036113	137.118488157416
ADCYAP1	113.043089777907	116.5272207025	108.955761698524	
	114.115609163126	115.963144087717	116.46192274217	108.589444216106
	115.137475087954	127.731816003312	101.149125916797	121.057111457792
	106.576058729493			

ADCYAP1R1	115.01682934323	116.082361389405	112.38543517651	
	111.43827410589	111.152235113722	108.497209666203	109.333276735523
	110.273174147374	121.059923601223	112.612099135361	117.178495957357
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ADD1	3528.62443098065	4047.99200599472	3560.23794634993	5347.78127066964
	1607.52029676299	1373.67062432073	2131.68478964427	1787.32566525551
	1726.15788525017	1490.02976786379	2236.73950603157	1439.37593006882
ADD2	129.086186239653	123.069963218224	127.654130155446	127.155818626031
	126.506749037908	124.555847618988	123.813766735115	124.676743480622
	127.723052839953	125.234097725749	122.547842148486	125.569364049349
ADD3	612.06231165648	545.760623858473	426.364663722264	464.323065038265
	320.812909889014	362.195903246495	517.42417250172	435.183433729519
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	127.171331062578	295.463118191589	122.297401003756	367.983166440977
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	129.888444399067	157.754622099874	148.844916975586	149.041707216561
	158.911404625381	126.288011849541	129.818020166075	135.285224699704
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	156.562197068687	192.375251343504	141.865758685796	217.435155984897
	173.70035122661	153.222807811478	152.647566393845	154.057771254252
ADH4	153.726935957906	163.146581498065	133.957160768065	165.977852973826
	125.143281492089	126.617737577634	126.702705908175	157.739526559807
	186.611870261871	130.807596523171	148.382228428693	121.893446546512
ADH5	243.10297424873	228.243668453958	467.512355593598	234.996704304673
	158.610249594568	434.509391836336	230.079664410595	169.061364889307
	168.687845035401	232.083160165968	232.986366625889	230.723142236623
ADH6	130.450930089722	141.156434225355	131.958760372325	124.300285428221
	138.519129384809	124.873289279767	117.65847906412	132.784949538167
	359.703969802888	128.611740835252	157.076284096905	143.40955339735
ADH7	135.99579763634	159.424105896749	164.198494818485	170.283532007581
	156.262515148436	223.359785518285	165.239214141562	272.456310079164
	347.487059316081	214.241635800083	145.517559593811	132.269567096683
ADHFE1	368.0573385048	326.354469134694	727.814681346494	
	327.480268032814	165.342790388607	171.028432989066	183.83720937589
	158.241349852419	159.452527363763	191.445291899108	155.7441762827
	163.59704679338			
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ADIG	115.247223837316	120.089228795888	111.908965758799	114.200099628087
	111.525984720592	109.770126492743	110.202982683256	104.406314027414
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ADIPOQ	156.548858402702	148.73620012231	162.863781294205	
	161.655336107432	152.667721542507	146.795608819024	151.84373370805
	163.099009810658	161.866405026758	147.459385142695	140.92066676704
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	295.678097392123	414.200068430184	490.464012303239	721.11578916385
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	721.11578916385			
ADIPOR2	628.000860165888	659.483452217461	542.740017003369	
	724.777166238211	386.305638633172	429.595453454621	609.100385482325

	693.781708146282	769.958422740085	755.42757464615	600.919152191636
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ADM2	143.795399778897	141.960809148036	140.36602776806	125.444541266623
	154.150568177135	134.273326732349	143.491142564838	159.413535577361
	171.384487293154	153.432933930805	142.281657284178	156.375876454394
ADNP	324.671490117952	321.119758814618	376.189276074918	283.874600697211
	372.024884481775	673.176084400831	630.473042320288	405.64711132293
	495.099443245153	354.656612182522	511.779988437654	425.229044880287
ADNP2	489.022371276542	407.711669482083	441.112782197591	362.502631441716
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ADORA1	149.772157318769	151.024201732633	138.411148122407	
	135.268963938932	144.961095334901	139.54738445816	144.445496145045
	136.85323853426	150.985061659285	144.570725886413	150.364511432468
	141.181931072161			
ADORA2A	165.06655355918	161.704966315183	181.681929801968	
	178.728925255163	159.592581700976	165.51742391186	166.81024151246
	172.310673499572	176.208206282902	176.77183598995	145.522435728191
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	139.334552725255	139.991780068793	151.3362561751	178.835679834487
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	148.245974323625	161.866405026758	137.736771579507	138.861385127242
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ADPRHL1	137.016495611111	139.989830921287	134.418976976995	
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	489.022371276542	686.679573646733	705.020444579319	846.425467119342
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	126.759554774012	126.720031203392	124.595925483149	129.723501897231
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	133.583297305219			

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	306.550948766362	306.550948766362	352.180110869664	258.998065427002
	278.942695435238	359.363523948825	246.457698183615	262.452869676209
AEN	228.284236550547	207.417884407459	158.374760929273	212.545989139388
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	2733.68308784024	1155.4487861163	1405.2134783352	1106.75785702993
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	159.539320132392	162.472783116487	150.19577351885	163.558869203898
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	190.825209733575	165.673535349675	185.905819051223	151.070654092886
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	235.997227173296	165.863118584978	155.172667450053	134.640783050966
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	145.34041912391	156.399808270033	140.368070973566	139.771342253058
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	138.146668191454	143.697931551096	139.886499402506	157.36568754472
	155.502363062633	148.380555606786	151.669421563954	138.521952850632
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	154.768422926874	257.941367816557	237.940015617254	284.195575802966
	289.616527814137	227.467161919443	278.192669077191	270.490971664802
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	130.433405111592	119.135701239571	121.603608840998	124.176944998906
	127.086470811408	124.15094220181	119.882472552083	131.606765174514
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	122.506058130261	132.568354349687	114.45792163942	118.879931299016
	150.176942469551	124.452631766045	120.29173510435	129.421772713718
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AFP	124.516264338772	144.858656365799	143.227410286571	137.363483527372
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	150.058160923921	143.07651558428	129.928047362701	130.701801496564
AFTP	318.112626495401	310.174932137546	315.786908578669	256.99019407912
	348.506289278042	534.276129011237	372.088129459528	502.935749606918
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	140.453219944445	132.70109232982	137.884051774657	135.067056559409
	126.378952839132	144.328571856869	134.041098536814	140.158309892319
AGAP11	120.806180547422	121.207040901483	116.288113598488	
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	115.293844461817	112.90900939264	134.624322761212	121.607527525765
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AGAP2	125.353389826276	137.388190728367	135.082715974111	129.699765645519
	129.647514123731	126.720031203392	125.202468372015	122.292692083352
	135.151438845363	134.512204051277	157.390513637267	129.794293922951
AGAP3	179.841665686703	205.244843885276	196.942880967705	209.785886171295
	333.439929772897	368.134303229682	286.945784387294	243.246632667118
	185.691922436569	314.063025950327	227.092319765009	364.191263843897
AGAP6	251.511405838796	250.602978521808	310.8725368426	238.904826940476
	210.316431648335	320.390351199433	271.004741629789	347.812754957414
	310.301616266762	210.692705153337	248.204358220728	435.037306125887
AGAP7	148.967232828819	138.773042747912	141.508424382665	156.200313064999
	152.91729346961	138.681348536008	149.842326869644	152.593934787262
	137.415158613413	137.53070284697	150.587882657674	130.143953880391
AGAP8	764.774225930479	736.963699775724	1036.40082234884	692.53483413403
	269.468453936818	916.4187683687	753.007562127186	1737.57015396357
	1032.4540300024	479.983368253935	838.63350090385	1524.46745239811
AGBL1	118.397482835514	123.505435008269	130.016401638936	115.795989631016
	118.388993232718	121.99477069153	115.3611179192	113.23302126254
	119.087972087745	125.050945917101	124.990876565715	117.432860005907
AGBL2	153.461396593156	154.136467767927	160.75642485037	135.185283076286
	161.744366588564	165.549190801014	162.629257046871	153.541193559658
	147.52403424052	160.361025839456	163.227953876329	147.841960346835
AGBL3	132.848926011576	138.834309377225	141.760529549196	138.231715814115
	140.264060906597	146.548348470748	140.89666990854	141.65642171417
	137.418345713224	132.018833785059	136.130740418851	130.949405011154
AGBL4	121.44038832089	134.512204051277	121.799209715087	119.544004279354
	125.04156726504	121.991692204056	117.408465686218	118.93828679356
	128.359034755228	117.646963986512	131.340453291188	119.755151432304
AGBL5	396.04031733841	499.321667633972	491.709723745226	749.515603904233
	601.640387246951	397.985856484851	447.909277144896	295.047418816148
	285.172001915966	300.047728281275	267.869879189095	278.598913464804
AGC1	118.505980204837	130.370405378213	117.555999801887	118.319950396126
	142.886493948916	119.463337435512	130.766401858384	120.270397272069
	122.243585162452	121.824805374887	143.625188247966	120.433080754232
AGER	142.752536416014	147.310807346272	142.846100831941	159.124592503759
	136.369287857303	142.907969322845	154.199534276226	144.708780756278
	150.449621353865	141.378381097266	146.805832438977	146.176240539176

AGFG1	285.131244588624	251.787648609546	232.200025766422	241.058691798484
	175.989742412417	224.62335524729	262.416137698884	199.96834355685
	204.616225498655	269.892633574243	294.48534582475	241.867699338253
AGFG2	172.836730741407	171.602950766191	177.379186278216	172.509081696309
	166.964057265095	175.562070915794	197.326259802349	164.352366170527
	163.904137395349	176.883702717029	150.584633044901	164.701183249762
AGGF1	249.129943906228	239.73396414153	280.170464338141	228.243668453958
	215.897620927751	349.248144552634	476.641032594868	274.14931964455
	302.219514290905	368.825190022937	285.659010982301	354.205670284123
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	255.493109705211	470.308610828825	363.343480850598	529.228238133018
	394.65807885612	447.579975492958	352.50679573356	574.779350011402
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	196.615914367563	174.971350923613	207.204293555178	200.72147365413
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	187.112176929485	112.629266772219	159.317429821638	166.803359138942
AGPAT1	199.191065549132	214.888126361789	221.975219056555	
	245.489266602897	248.531972733475	145.601922576321	171.022976593689
	143.567488854011	159.298815559223	142.390243984362	183.406510146725
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	239.762135294506	1027.96306543235	370.066087375401	225.31216514083
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	557.405157178952			
AGPAT3	127.9575507576	126.214166842097	122.204249636472	
	121.924036463998	144.551233687082	138.333435927107	169.568915494577
	143.193305421206	176.579096613849	158.691830524781	180.456659320226
	164.337486856997			
AGPAT4	220.446775597113	213.046162847735	157.28429690041	
	219.619022209985	140.10798818623	129.668506092785	178.606255846041
	133.011320549232	170.646233722767	154.949840064881	166.1601847682
	132.948096807634			
AGPAT5	134.299575239865	127.709638375626	142.51308872439	
	122.290822230565	155.70645844794	189.174957940401	217.148957110623
	277.539110964815	182.886100305943	304.713434036642	193.315380090713
	267.589020526148			
AGPAT6	174.603285240228	186.103491222924	179.048139035247	
	178.835679834487	242.848821222611	234.484787292284	198.055877414824
	187.607426452073	213.813667557079	194.125840053843	186.296882059398
	194.961531388323			
AGPAT9	433.491835341321	360.361719991381	421.583441056026	
	209.464347017443	159.102070980047	140.837360719964	140.301945597122
	167.526798465556	161.00635457883	214.229228850802	130.441808139335
	158.308558656144			
AGPS	258.145539382199	213.914599384797	249.763375041547	236.651601701157
	221.961758403614	249.129943906228	231.890885094917	280.558463661137
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AGR3	157.08300736206	156.285963197762	143.626857507866	149.42148494796
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	134.406692724353	129.633387503618	132.01588294465	133.125084506877
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	161.104993402456	144.92594578882	126.305273697185	175.41089164969
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AGTPBP1	194.337080066417	168.347445148881	180.113222861966	
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	157.225479764928	165.642728895682	262.488050186425	165.337956130606
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AGTR1	448.260934224454	439.33566689752	666.847934976479	557.868300839263
	170.844002412425	170.825161347825	170.768398273919	170.035994634371
	167.55209828062	170.040914594182	152.990523860831	160.964435028806
AGTR2	128.02595294499	126.910075365358	124.232144678947	130.272086123019
	124.595925483149	129.842252702648	118.764650384561	130.571827557149
	126.473768158566	121.567879358508	142.603436693587	115.194730717797
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	181.088268167074	251.324685584062	348.413827101046	179.286187825363
	187.112176929485			
AGXT	135.773386496434	144.949897872252	145.043494048779	147.975551540256
	135.32730674455	139.701504237962	150.63456320644	144.175551691291
	140.793616429174	136.68056120003	144.259643132933	160.192540519103
AGXT2	120.71782441569	115.902030217102	118.021169080914	121.360822445187
	117.923459503989	116.831725094917	113.40684693417	115.270544506813
	126.072053958666	110.081964209973	113.989682635964	114.893462783007
AGXT2L1	116.331428876124	119.446359837504	130.160236228857	
	131.473001455317	133.42964827086	121.53632327554	120.212294184999
	132.958521136	131.31716158922	122.379537202709	132.981346767415
	126.133366366356			
AGXT2L2	179.730694272916	162.6762533989	166.730974538475	
	170.866433766203	155.129304059037	146.746669300049	167.796474464069
	152.746799687103	171.844483419604	187.686326872667	222.919473675549
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AHCTF1	282.652193666078	282.282663608264	290.867822301134	
	257.100909006193	205.705962405954	405.469705787631	268.264885392368
	386.917038897322	240.054164412429	210.989806933158	195.577739376082
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	2794.89048827025	1949.60516542965	2398.71483410593	1360.85309203233
	1343.2623011534	1392.89422203207	1311.34904760947	1587.84395475807
AHCYL1	2567.4299860517	1923.19560386389	2296.30423509176	
	1632.84261181074	1284.19937294949	2423.84327263111	1565.64079526732
	2328.65814406636	1657.72357544205	1129.76078220457	1730.30703463073
	1490.02976786379			
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	133.21981037185	154.534605635191	170.381897441659	186.222567239198

	170.701964358516	175.767556472012	164.38282966938	181.950658782069
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	238.270501389189	141.499192356469	154.250656489421	132.615324904193
	145.294665838127	193.832033192375	193.292596471113	156.71199811686
AHI1	546.274050902567	476.917496749381	469.794672718173	438.231717096337
	181.558764396201	200.302384864371	276.32528705384	236.108432603479
	249.400820221233	192.61436632814	301.188296465202	261.844708446856
AHNAK	4238.41681589316	3586.00189997341	3024.62888503536	3883.05620256963
	728.176339659082	514.354512083591	685.848203651889	437.931339781992
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	3024.62888503536	134.95415308911	128.601885372662	121.448671447499
	127.694189114288	152.152106138031	3042.88425356552	156.981921830638
	127.447218258785			
AHR	5800.06300826802	5195.2087608308	4511.9116742833	4448.67183518984
	2206.7447886564	6105.64727031051	3215.41238464601	5250.88041666757
	4088.12910138929	2816.29814823646	3855.33040541264	4262.23145131525
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	116.71331256222	119.366599958278	115.845468537936	115.949513659403
AHSA1	568.555967950896	536.46884541183	731.513306289481	615.254768508691
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AHSP	167.357570666817	165.274189050141	166.182850621447	182.042104888745
	157.367331080003	172.128489882364	174.775676782795	158.522877390859
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	166.272237117441	177.457362387052	151.690538050817	163.773702843544
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	1056.43975075255	1751.22580157752	1732.52466021178	1157.02365469464
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	196.880135762817	275.696829424061	239.621756857095	347.292438587205
	434.390613381746	308.767036855508	259.338947392465	227.267783818298
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	154.932132950843	131.275712196961	140.870849757111	133.088758771353
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	1638.72366638732	6179.86800320807	3833.73632806344	4641.8793590085
	4367.38154535901	3417.22292085668	3737.57754066891	3648.38765465889
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AK1	319.685597963267	330.703588385626	293.234972169244	364.331860640225
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AK2P2	376.124744806171	362.849380477089	307.020265874666	334.350011399462
	199.191065549132	416.475440894731	258.998065427002	653.500279510032
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	162.98885109088	873.010676463707	166.232856234879	194.161930642068
AK5	147.653573379877	145.797047170492	151.115031304764	156.551925771312
	134.91213977595	143.978912435831	132.568354349687	133.962129094978
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AKT1	1424.79466712859	1573.03248861784	1416.93831202323	2172.89794460273
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	218.2454853526	377.661589835101	192.140442881209	179.973655632636
	192.891507272665	212.272826965935	191.170105307944	192.059255232313
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AKT2	121.696353230886	126.623026026721	128.635684412304	124.892438890234
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AKT3	146.854523122404	145.10302792449	155.558839375761	151.204487316077
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	184.530853446688	245.378747269929	150.933724024651	173.782474972742
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ALG13	216.277178481058	185.295480519718	168.906637816046	176.622758931306
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ALG14	150.72014060286	146.179543599917	152.182968451691	147.502116289881
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ALG5	538.156335788156	522.050619657197	476.249239197777	486.197269936713
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ALG6	241.527811817146	244.011434605133	188.910933952136	185.396765725228
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ANO1	169.815053752464	214.355086255855	175.585857393085	168.314966639178
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ANO7	139.178245419517	135.348086420636	132.508133846896	141.469818222503
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ANXA4	175.210232663606	183.779065928447	167.941671074236	138.377628971966
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	157.932243807202	164.509354377985	155.233830396052	190.534176839652
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AP1B1	271.196028302639	345.494740481759	279.969975697164	383.033242143031
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APOL6	125.868080230094	125.746184969983	125.493004972076	120.521509788705
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	150.547096071626	131.972669163481	168.384397488011	146.9554120076
APOLD1	353.571106279836	525.6579615077	174.820064644203	
	302.1846598234	205.026176598298	702.049571167356	190.077302802065

	260.554343693588	211.966139902562	208.476367897256	178.166289723365
	229.881164774875			
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	147.556482119673	143.096097305398	136.601220755282	123.547821639269
	148.82892305156	137.790718305537	155.04585737344	164.509354377985
APOO	267.696284751923	276.057101476947	309.75140197669	360.285027176918
	392.824840252824	780.461254794127	435.037306125887	604.237898104299
	468.339735327273	367.644907862372	431.546135503733	387.827718022473
APOOL	172.370108210895	164.652795899742	208.816482659752	169.933706225406
	231.819341041105	195.303469330682	196.053808536366	206.89716102989
	168.911840239685	197.859546367676	182.810581377888	200.668298229815
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APPBP2	569.236322997211	518.17401959981	619.380514697732	
	560.481802403627	239.503369457867	601.164127925014	576.10291008626
	527.139476504986	455.21285026588	270.679613997675	435.69811966429
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APPL1	408.60092780174	373.760551592844	418.319283832879	484.131020584378
	343.617417488962	359.493075382333	441.958777965408	344.992791638415
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APPL2	442.220572301795	367.732191251547	447.521645706162	380.393153331219
	423.396271159345	526.416479408056	526.896146537814	637.695341427976
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	127.213640193364	139.329016874967	142.266177608209	127.947547987882
	144.523620416439	164.164463389212	116.844361858869	114.28381541078
APRT	400.550044186372	398.971838949075	369.592501881153	378.920456227378
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APTX	398.272713014637	394.35596596181	359.703969802888	415.388760988459
	347.557792829093	342.245182599593	410.645457106122	386.679822751367
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AQP1	336.898462056187	278.651369597422	310.533399024851	292.037861000784
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	176.449549075475	165.139423820186	166.024236370752	153.731233276485
AQP10	139.310309748986	138.694701349366	138.3792224631	130.639974588163
	141.38612990166	129.616142780279	134.181819177347	136.041605158822
	132.047328970556	132.996622574111	130.584348445667	122.99993610249
AQP11	155.960886801091	144.049503774298	131.226834630025	159.26101905957
	208.932692585748	137.15288362126	161.250520154112	136.133538781918
	142.472724215037	132.855812035005	133.511698282195	126.816402300701
AQP12A	147.292241873554	136.769073515537	135.168792286819	
	133.727447520255	170.091913791176	143.787766055379	142.896723827753
	133.869867161978	139.995623005154	136.967408633308	143.449303333495
	253.164596735793			
AQP12B	135.10155936286	163.245806772716	161.80922869659	
	149.188357651896	153.758353103323	170.951009118578	181.823450464129
	154.061101136889	145.286983999628	193.466377788318	176.289693941489
	198.023465629218			
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AQP3	149.941056059544	145.250076958551	133.590552542806	121.464383202986
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	193.95909424044	904.211195986553	293.018282386003	501.946140974776
AQP4	121.583096465567	123.235136639469	122.706176540192	118.708644971927
	115.607031940137	109.29279076901	117.923459503989	118.521075843163
	116.360144963753	131.84454376953	139.049085468313	116.998277297063
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	115.120702589487	120.507930710099	114.217867810848	113.680875214845
AQP6	127.646032547296	121.425298866613	124.460064642088	124.940836122365
	138.21083121895	120.447140228396	122.777544465711	130.938642792468
	128.972276851419	126.76986764971	139.008854444223	129.116354997747
AQP7	126.919867899174	139.332164436099	123.019430618632	128.421242037748
	197.191648960563	124.329980024986	132.192775993078	131.430921437192
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AQP7P1	185.961822133346	174.979501466228	198.701991021316	
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	212.473610495213	181.635664531851	126.678746008577	158.039920243116
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	150.2214516849	188.20675818131	139.566124411099	137.555253894825
	155.60532199001	143.423661752881	134.256243410916	156.248684477916
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AQP8	136.664500207966	118.850495684547	134.821778017915	125.18424162353
	132.413527125434	142.066903301882	133.388533738482	144.748564682545
	135.259226552938	144.375109087466	124.025104622631	137.165966740473
AQP9	115.457121859064	122.133292722932	120.85013281321	113.192313147111
	125.535877109652	151.0189104086	130.571827557149	182.958991847218
	212.996456841785	268.034972830233	143.705475208192	126.295856316628
AQR	256.795346052751	252.733973271584	280.414161197286	275.996693627151
	201.383739902873	284.638865013916	245.378747269929	249.823314327355
	260.356834114611	261.39435936661	266.534316786801	281.570685561526
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	139.577443171489	136.528123792599	144.649656552	213.26158748941
ARAF	647.955521647635	756.618969995355	696.976036382401	844.462124058351
	1163.13845502757	631.653707589221	713.832153334389	909.020708316287
	764.137504481329	721.966539760341	894.100792722707	756.618969995355
ARAP1	265.61506544085	352.121800955822	266.80383076887	424.025588636796
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ARAP2	153.202157381228	146.20679320119	144.907922949811	133.59686364883
	161.603317039244	195.561296046507	240.306287921209	173.599961799334
	177.401771322485	215.365809536522	266.316485802808	220.242344043437
ARAP3	325.493177980483	379.292531644085	271.638179116269	314.646369385896
	434.61711290583	546.274050902567	693.781708146282	364.678403892354
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ARC	161.83241639654	141.751174078324	125.396523818173	137.096785940897
	131.380387461901	138.510722755317	134.045938361221	121.344724993789
	133.26167785455	129.953801496113	149.108582827136	145.306369509684
ARCN1	1542.35486950856	1266.53539318831	1584.81089248914	1243.96721244424
	1065.36715400306	847.863177169335	990.814111681408	1370.61156801632
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ARD1A	449.304281526081	371.767182305618	455.778776920897	502.063888359427
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ARD1B	153.19516365535	148.732027660387	163.616115299926	135.829273398594
	156.290018816692	141.882859092658	154.256214901103	147.348400730286
	152.197327387252	152.79367157305	139.691470247318	153.626180103404
AREG	109.003365273337	104.248226402465	107.365390754133	109.209241676429
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	106.629065516249	109.988237089025	114.27112025541	103.772221923105
AREGB	128.105527466559	128.867710054234	114.664782541261	137.522792377933
	123.491930765117	131.302225305148	127.377356715337	123.145830746127
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ARF1	819.887322757281	985.087150371964	909.388774224614	1057.1528284934
	1682.64624665931	1220.30347076968	1181.97868824758	832.622843175217
	1640.99641023476	1110.43791444289	1044.00217726486	1652.77814259264
ARF3	538.872348151809	562.711562649704	527.498114662967	419.4017188518
	858.742139354587	583.619362840814	412.801213309591	507.342877360289
	691.205738835917	617.474181543858	436.731545612902	692.53483413403
ARF4	1444.45946291517	1116.95795024994	1223.68146968716	997.460212152591
	1639.76556136383	1800.25771851544	1665.14066952917	1535.27496251381
	2630.78185410861	1629.32740709526	1549.30900090605	1738.96798001895
ARF5	776.030689773414	909.388774224614	571.950858678221	923.130629121442
	3152.64817044581	1103.81439809121	1255.02720867812	1273.6393529108
	765.911113050543	1259.75918248468	1370.61156801632	1279.9555644913
ARF6	142.763157232147	153.391895732807	141.587109176431	159.218886890035
	162.739253457398	179.321622114583	146.968599872798	154.881797585583
	159.166059518117	166.232856234879	185.002106079042	152.199095472082
ARFGAP1	377.593087606046	458.282682131641	275.972447693982	
	569.236322997211	633.762608454521	317.904396212359	434.855262284265
	203.370353613423	266.61343130101	247.08460296705	260.955030428944
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	201.059635671301	271.568797887976	281.49247863022	294.280238648737
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	247.622351589081			
ARFGEF1	305.669636871734	322.778260588465	363.594808277506	
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	541.764013317002			
ARFGEF2	139.000870898001	139.219476681919	142.75592155869	
	127.215777044942	223.0506375638	208.095384605737	313.773476049783
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ARPM1	123.727239584489	138.587686193555	132.245217686793	125.247402280272
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	160.066390229416	152.340010735322	137.726769003181	148.317958829244
ARPP-21	131.470883854661	134.53861441495	132.941478943584	
	122.706176540192	127.144291519133	129.231455282441	134.241917425247
	131.310537960214	137.907709799074	135.071400668179	134.501410126169
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ARR3	134.469653093466	149.073650082048	154.537240112989	128.486896700405
	135.9097041056	147.085006263446	141.038721816572	159.98205335759
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ARRB1	300.765518378297	353.243400332397	258.145539382199	367.229293432041
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ARRB2	126.340955733062	115.435942397626	124.802639338573	120.682485578097
	134.972933635542	137.00397800873	126.902441495413	124.526220300907
	131.651851665521	130.388530183353	151.092066533546	124.958287100852
ARRDC1	128.009286101341	123.219903763265	121.274997609378	
	127.500754400224	278.061498892643	120.724926760252	138.899292894875
	145.906601611338	148.700297908071	156.040073232376	216.859640534581
	128.781123194219			
ARRDC2	190.716424123036	176.874265462986	159.317429821638	
	180.733673680261	215.143973502566	194.753955100069	220.010399552402
	199.714647839712	202.849544035436	191.861598059182	194.979795724712
	190.471158323247			
ARRDC3	177.478925091583	184.041062308263	155.710272937386	
	158.631298154353	150.489651880905	190.825209733575	173.929353266244
	154.722895261876	168.000247148058	405.766055310869	161.906823008445
	224.528190554963			
ARRDC4	296.24781576525	253.327404004524	214.229228850802	
	258.964323941464	156.957578703389	167.817232948801	184.437810305792

	175.121069571371	148.585224298375	147.314091141313	229.511643376643
	233.07015384759			
ARRDC5	153.348110626071	145.819198235878	146.9069812014	
	157.745805838008	144.148833164952	172.28937151007	147.500009766324
	164.423960071908	173.225064625094	158.514079887374	146.863611516518
	144.997833436737			
ARS2	896.625415670455	871.913035811066	925.205399154409	916.026216386031
	1451.64055568759	1343.2623011534	1217.29687282094	1573.03248861784
	1414.95226752155	930.704688414069	1144.53002508973	1561.10217536347
ARSA	220.959843573708	193.704510912321	202.129153259445	233.635876830148
	288.313931067158	211.483693299981	226.989201461085	237.641190133427
	225.890195278753	255.374689750672	277.285526811736	266.032134528055
ARSB	191.405362404386	172.599654598668	170.844002412425	172.175584707792
	147.893916750136	153.860039535598	148.594322264158	154.273953018148
	157.032746784217	160.073510173041	169.713585775118	169.649251828199
ARSD	234.301520483864	274.564508105177	248.965394617795	281.278843600876
	400.783945471037	543.170902795966	301.188296465202	521.30110104669
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ARSE	107.655624022312	109.851507510788	110.068122112671	111.895279866421
	109.947300629824	103.660742045068	102.343275379164	109.067239220744
	110.764586138261	107.07609243233	114.740948266517	105.450273343324
ARSF	123.689439578326	114.942849575931	106.066897223031	111.962852412774
	119.427342766092	121.636361281148	125.45936959544	124.563594928763
	120.174672871542	114.334059060506	122.615852682436	117.532063783977
ARSG	137.310014841869	158.181316170382	145.286983999628	143.063345350253
	146.619846538124	152.386986818959	149.582406567077	144.621077658674
	149.717739166461	144.373226011578	153.366677608026	137.513315427454
ARSH	140.462651395483	135.395071593072	134.671840308041	130.628967781841
	129.394359810841	114.711310011993	118.902823494379	140.833666276568
	131.717160947964	123.7421178083	125.724143659093	125.150706047419
ARSI	119.746227888415	127.247764390727	123.182903611854	116.784024112826
	106.341910466588	112.936472036608	115.496108000499	99.26400442869
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ARSJ	206.257167235126	180.501409705275	177.874821397216	174.832495287192
	164.708712337156	149.888719320368	151.340728221261	151.561151654372
	151.803707178383	193.609985124825	141.541355091514	149.010477279209
ARSK	169.963805688413	145.938780249776	166.135707525987	149.133055368147
	147.958483355783	147.694098231655	163.116334434429	145.709172732805
	153.913513669361	170.079723856247	136.814736808725	136.852403978525
ART1	171.784981874184	171.880470629305	165.619206216088	176.390014020936
	166.97270256697	152.099431258333	162.9279134169	170.775283924087
	148.245974323625	155.313873664923	191.616483214712	161.937384157098
ART3	147.584176709986	149.717739166461	157.512561489621	123.905462079972
	119.387459594521	114.234369421536	125.77343813277	119.886433564236
	117.05536677976	114.644722005728	130.935922915902	114.042914237667
ART4	132.712573198794	136.251820364823	134.61114877396	145.043494048779
	160.655929233978	133.473140653666	141.683298500736	152.317890573534
	144.258128917228	140.191954630636	150.833523101057	147.428180649939
ART5	115.619116556625	120.727504500018	122.924017262559	114.927420605185
	144.364319564075	111.7529190597	117.172431931323	113.432757764419
	108.362609680556	111.010889276873	122.830376253922	123.968639555673
ARTN	122.789656787728	124.267394371656	115.242526386551	120.231559540009
	132.881693683384	127.863583325139	118.666654333368	134.725434838052
	126.439948611449	132.291759474331	134.769926504916	122.075440298074

ARV1	341.761516859319	318.297819854586	417.191960489528	305.343879847672
	309.658122422202	592.957842630046	468.93543246394	396.459213999636
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	156.073428882485	154.2228051929	123.625734357908	138.580264357741
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ARVP6125	139.459975305985	130.304743083321	129.566451901256	
	129.802596741962	129.92319548307	146.290334865039	137.048292841566
	136.575784685895	134.514251897045	140.083495854322	149.962143642332
	134.239416179248			
ARX	137.728163622673	133.680691168661	122.89752183991	122.295222990408
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AS3MT	189.0608798771	201.365457496683	173.782474972742	212.420616436137
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ASAH1	189.136114953249	193.609985124825	218.470365730283	191.018168651394
	204.862387642573	251.414717011661	411.160709628865	211.269041187154
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	143.239666389592	146.851307767958	153.829636228764	143.868962478182
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ASAH2B	126.5929421833	124.873289279767	128.168460083895	
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	168.560093633607	164.96631670799	189.37832342197	194.430896269275
	168.232843307077			
ASAM	436.331333134628	270.360397503276	223.666832044186	243.038392457584
	127.990453128978	150.690143057308	118.410091682499	137.974323288786
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ASAP1	1103.13439876128	1137.42879398351	776.807656744828	861.516925304722
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ASAP1IT1	163.824878791966	179.048139035247	160.293522619371	
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ASAP3	818.761934233826	687.269774217064	508.572981581855	639.011144305614
	792.101559967381	360.285027176918	425.708048519408	339.32415558339
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ASB1	610.591049634222	620.371912523332	601.018867455333	873.879064183441
	240.147082836599	190.614236149496	238.482863150124	247.307128520272
	247.622351589081	249.737588031219	397.985856484851	251.039117540764
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	132.390330703084	163.621658579697	130.630504666374	143.818379692331
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ASB11	132.762755202326	130.084202182014	129.018088749395	131.470883854661
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ASB12	111.603221942108	122.329290563769	118.988269692812	127.558034562151
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	107.863971340407	112.987890650593	121.294366964074	127.299853592344
ASB13	210.33390115739	207.440700355457	198.659595851481	207.338645756456
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	128.064189008549	120.979417552159	128.244549276386	126.080780033301
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ASB16	140.391753835434	151.367402326399	163.996649606636	143.756242843438
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	167.040031488406	159.344044864557	158.573561336755	139.619076126267
ASB17	145.409722106953	147.761965925044	147.763017438098	126.796253980623
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ASB18	126.100454068838	134.410706628655	134.060214479265	126.862274244977
	126.5764774133	136.987403767185	133.964163727962	123.76900858347
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	133.243679173608	135.920830568556	153.636804025106	140.616811333466
ASB3	313.077481033093	332.343558229873	335.533053221675	303.638516587721
	258.695920967489	344.992791638415	275.584858082096	282.101714660307
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ASB4	141.453255692229	137.514952067562	134.579005092929	147.236728188605
	143.152993168137	143.207187847583	139.638617433372	139.092075947067
	138.246963115014	144.2753860947	144.41489969974	149.31020447459
ASB5	700.601917911532	830.684999498776	773.330948077036	864.161191021297
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ASB6	166.88833169342	185.961822133346	145.665155500862	214.785381549181
	229.116153948948	132.589411973628	131.434121613176	133.486155360266
	149.831566330214	129.875986080057	158.565676210997	132.597481743242
ASB7	125.055545087871	134.691038011706	126.349403754775	123.318763391117
	149.505323932806	136.316003989725	144.266864839344	135.349868925415
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ASB8	402.366797969833	388.002365247498	520.470790410856	440.404188514231
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ASB9	146.398454169593	147.450681897766	139.739448838436	134.78059811237
	149.016767620428	168.10131060526	142.282861913548	177.379186278216
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ASCC1	589.722914993267	627.335757721489	630.473042320288	720.214044399108
	345.291295192574	483.845891531326	605.040026490154	390.372738176917
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	2574.74962955426	1929.52146517699	1908.81864728547	4671.10203385528
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ASCC3	202.230920499592	193.641927801805	188.708596785144	200.790119570144
	220.362946606131	235.933451977398	261.775269058607	214.546528079149
	233.300864925399	318.850765099332	252.197271817794	281.996583337694
ASCL1	114.644722005728	159.784369379077	120.276236447255	112.036753245281
	119.949050292223	118.126133973555	116.723991721647	108.131097605872
	117.740022708444	122.777544465711	131.730758460802	190.66473033826
ASCL2	174.881557472722	219.729169245025	154.38209765671	156.34272729153
	797.28465621772	303.795701960506	736.603605876572	374.56251861444
	682.075583857856	199.555406967021	572.262848718437	159.138344477256
ASCL3	135.237042337721	138.446492794924	148.94765984808	151.226242696197
	136.907453440141	142.563762845657	138.13987378399	141.917318809044
	148.842322753916	150.856917125736	144.235298492095	134.793399942417
ASCL4	114.062099086818	106.182551369456	111.949644842971	105.179281694336
	108.007762863766	108.868679899494	113.432757764419	112.75167046116
	106.701716475947	105.193775204124	116.046983032621	110.966212705086
ASCL5	136.249621724093	122.00079209554	144.70348930646	128.16147857336
	125.929743286163	142.892198239879	132.796961054534	124.551603326682
	127.486697506397	146.785478478701	137.237089899964	131.086904662241
ASF1A	230.855806094267	226.020769172424	280.453895029319	196.922837906592
	185.627515956848	252.514569129392	275.794847140407	265.61506544085
	216.615694348945	217.307872538386	244.251315474587	274.974304050999
ASF1B	149.127963327999	170.505553609318	139.162076054072	200.065184172871
	755.79669622705	369.018856220394	268.370347292603	420.502251256406
	296.20443113482	220.010399552402	178.445384902129	321.177982468322
ASFMR1	146.805832438977	150.343825300998	138.295019395552	
	134.851757252167	153.97869518398	133.800111596565	136.508969220268
	133.143695166498	135.697550878438	153.613110881454	158.249743182741
	150.820808770853			
ASGR1	151.538112896642	156.763364462534	130.231160879338	140.254665008195
	142.819669471009	172.774914399844	121.425298866613	148.825790628891
	175.313689069815	151.503307004675	155.694213876736	135.701041557713
ASGR2	132.634538733205	128.99859423584	132.375905857023	129.596851280135
	139.117776552573	131.347213356457	133.201157825808	130.392575279055
	131.121343131082	129.79093244374	135.381131982323	121.107979534361
ASH1L	151.663203772586	178.804669910283	151.377932495104	143.533725135227
	154.161892545061	153.346972639134	184.937088280378	153.348110626071
	138.938546468136	156.290018816692	168.805630890928	146.828099826146
ASH2L	611.36406319509	633.762608454521	821.862271569917	696.131296166255
	3391.3005983725	1387.90327883679	723.428294037428	842.22767901391
	830.455793617181	964.093668483033	625.544719251096	825.781627776577
ASIP	109.128394735532	115.35376992547	102.851152421943	119.673343767067
	111.260486045985	110.594755513247	110.003750007057	97.8058879269165
	117.423704591303	106.746545626069	112.179019393947	110.935688075738
ASL	139.293775885106	150.746423638097	140.626181314061	146.975258859244
	186.758038665014	146.858292465699	148.074494928651	175.055634340766
	150.19577351885	146.929717840755	163.02140155858	169.246302492166
ASMT	117.084984190461	120.060776752215	111.794102015354	123.743971147401
	112.252555403121	114.942849575931	111.7529190597	124.783306383852
	116.751145098777	113.852849454448	125.547399456656	105.952640312359
ASMTL	354.840474468573	353.826834642154	387.908774438461	402.213774592085
	386.544913399837	295.935625475189	162.876684781936	244.280971257965
	207.960802948119	220.791884858764	280.798003990849	262.60377731258

ASNA1	172.222262910052	148.624135810148	149.226700202481	174.526176588454
	198.191669030952	143.098246338022	164.981665344298	142.126620107418
	139.00736252716	154.388776919015	165.186696781985	150.802312408483
ASNS	609.100385482325	561.609211243027	513.292377117011	699.270931701696
	343.121661664987	683.019502027271	621.354393918348	771.059329972125
	460.941286124613	972.468110850466	472.669956708398	417.36454228858
ASNSD1	751.896334334052	595.270107963842	1033.03719406038	
	521.625146077176	411.71606840872	1202.74869573717	685.620637807134
	654.108318810728	714.91842349236	823.297606185721	822.88742008931
	669.330078861673			
ASPA	232.444867422559	177.450674276588	145.632060621034	153.267549449395
	136.939603341076	150.394483608039	132.402255281009	150.423586547273
	165.283700641161	147.823552813852	144.523620416439	159.182533998843
ASPG	163.922353493317	170.169402943662	173.182013165174	173.964378226631
	139.334552725255	125.27625242915	131.662585510218	151.360575274272
	141.950778601653	349.99912485533	163.407360509803	131.533378871062
ASPH	147.702785358046	157.067264221207	172.80265044721	154.881797585583
	233.914433380121	208.080089376299	243.10297424873	176.725347194807
	179.273936200852	166.400162299835	165.757295630254	217.45700166961
ASPHD1	131.879526177089	128.324383749931	136.380523452336	
	122.615852682436	172.008994980259	141.079317977197	150.557982810339
	129.231455282441	131.38692240237	130.782296492278	126.908123260394
	148.927040248436			
ASPHD2	121.668166378914	137.27827836407	132.300508985399	
	124.88118767481	235.905788497166	182.470538043064	140.02337095267
	146.666759322506	158.946177055546	137.194467539969	182.292947734054
	166.001279428607			
ASPM	151.364528898537	201.865955150869	157.800913051929	160.970946091146
	426.364663722264	525.287367366192	324.177924877233	737.650963292668
	363.963951509433	415.388760988459	220.633692394229	603.061485415867
ASPN	114.987285062108	101.713609383766	106.772581387455	108.807891863679
	99.0767996209245	106.667175621971	117.74682797375	110.003750007057
	108.910588012315	109.506450285923	116.625518828978	107.544568250154
ASPRV1	138.508015596135	147.530719472217	128.122197525844	
	156.339564110766	152.247504238261	140.639012372681	127.3079781139
	156.71199811686	137.303701514064	126.711037295629	126.067296703905
	133.318665755015			
ASPSCR1	359.162549472301	372.81255844018	417.262521411065	
	466.392151902286	899.336817124312	612.06231165648	584.919615953457
	1035.0797237176	664.343553341563	393.98210915852	411.451612988791
	617.833194119379			
ASRGL1	149.642946071295	155.064761390765	154.156272284591	
	158.854659281803	145.432667767652	159.227123133854	157.77047742735
	220.896363324634	165.752558888845	142.765490244223	146.351622020606
	143.596530151289			
ASS1	468.82816089485	680.250735532287	428.782703561238	572.913714991136
	2200.94974896771	306.232249422327	1165.05055932899	864.547109080675
	1023.29995420518	416.715760038095	1403.09138858507	216.903719298575
ASTE1	213.324226314713	215.057917795456	190.889832855403	224.805404798696
	189.324370290702	232.250434241457	250.647644543963	290.037325939883
	243.589099648895	232.960832410426	273.303240462047	261.251965523684
ASTL	128.381433897602	142.318709347082	130.450930089722	125.689884251847
	132.84666796678	125.008209861774	127.786141874218	137.5954358221
	130.083266044947	139.606654715326	153.178934750919	125.83678485646

ASTN1	145.56468363155	133.228074579352	128.346598756853	139.783725419023
	131.599370671279	131.202090507576	136.84840505336	132.227561632637
	133.054453517834	140.714455864886	137.627338682823	133.76515446791
ASTN2	151.739221728872	168.882806817001	158.507624756588	160.778296470857
	266.057472924341	143.370698101204	141.596078062845	159.102070980047
	139.432567336814	137.353149614081	182.275998840116	150.452467115669
ASXL1	326.570967321756	318.196134631178	414.114051645565	315.963526790659
	282.282663608264	348.067061666237	354.132752995385	242.787656836745
	280.453895029319	264.955939320296	277.726756691133	267.483886037099
ASXL2	497.916883763059	453.17378995737	543.001249586573	417.731815310276
	436.982960786839	725.443026984982	509.618968665191	811.362219801362
	523.591472915151	718.449150898903	642.484527246259	547.202354339933
ASXL3	149.912481263284	146.626517077288	131.774882989257	140.938442055097
	130.038936315246	131.267177634269	137.198654302648	115.285392699073
	118.256000539093	149.190528937822	127.949413503055	119.774204444899
ASZ1	128.499303407596	114.999628959921	121.212521750566	128.975785280465
	118.572988141773	127.302714624905	117.084984190461	130.205764567934
	124.924794564647	122.452541100946	121.311836944721	132.257989841046
ATAD1	368.711718874343	342.315456386729	431.093544964576	270.33685210971
	220.772387104223	309.5988292104	350.308420518351	271.287767448621
	303.762967437478	348.640185950469	367.229293432041	458.047799748696
ATAD2	162.333158524811	147.502116289881	187.461448376593	145.610045243277
	266.534316786801	425.001043358831	257.5097052677	451.985108262982
	459.068582584181	283.163770658619	195.946096353894	300.602422224047
ATAD2B	176.622758931306	187.097765940131	169.45559708224	
	198.226525986857	175.601912488918	230.263678910356	154.056660680872
	189.160454951382	158.679903271595	186.257814752354	170.818182800759
	207.467591256549			
ATAD3A	323.462252156562	250.139061165593	276.184421402511	
	321.794887577351	761.89271251455	413.983821839274	318.423602671236
	251.511405838796	307.945884504629	362.849380477089	232.344545356395
	269.831616158113			
ATAD3B	131.755881982599	126.573673878042	148.356726939122	
	140.820807603291	154.302619274576	154.534605635191	135.175806654971
	149.000760379976	156.576585764311	165.055636629118	118.988269692812
	145.566861062922			
ATAD3C	137.429832103492	144.690880401712	167.958792571511	
	157.507108643575	146.604519441812	148.744599622165	158.344330353326
	167.949422301257	150.115482378938	171.278489808694	137.546487338984
	150.809693773343			
ATAD5	138.785538575745	116.186846885411	143.247977741752	123.259322051795
	130.827726862159	138.89354244296	153.93249158209	142.783159341229
	134.474466007553	146.016920431468	140.772074031028	155.026276988302
ATCAY	122.793816135585	125.048770476506	129.3513576591	118.514618614167
	126.148379057536	116.335864439545	121.094060100325	115.524441144063
	122.809241232029	107.714294216913	137.132095345234	117.270320709161
ATE1	137.907709799074	131.153457976248	132.7284396337	133.606068125828
	133.522714111034	131.123149002831	141.263207601393	138.717541782317
	132.952355710395	143.242308032336	141.571389983164	141.194900058799
ATF1	226.086733606951	217.074639597142	234.996704304673	180.549865708041
	204.219197797869	185.525760847281	218.209523110843	222.285940575778
	206.391403266202	219.129781831192	194.734255772365	250.376178742476

ATF2	144.082452235267	133.857996630836	185.627515956848	130.892302357045
	131.992186668019	159.513465644268	142.351705613006	149.754842928462
	161.019770036957	164.824914851636	167.025336068642	175.442400672352
ATF3	768.053694275398	356.770158430601	395.049127927637	229.594081405784
	148.192121257421	399.620724969771	133.408354896584	153.620767586182
	148.195611015135	534.083703564903	145.45768403614	191.708350637714
ATF4	7446.59106452583	6105.64727031051	6091.9840719327	7802.25987814138
	2406.67187918735	1309.01193284992	2853.14759681683	2023.92614092273
	2822.48671794913	2962.11407134162	2183.18692530644	1881.90353127141
ATF5	635.37511798786	558.051041108282	409.743899750699	492.05680879106
	1597.53010317504	676.293399523316	1133.22524345111	986.972987865318
	903.503768217033	986.441377365124	463.488995330457	771.694853062033
ATF6	373.033658917608	359.024299091145	349.248144552634	321.977549744483
	476.076903428247	744.523059417351	655.094843900848	589.722914993267
	496.560127152436	662.781145703653	433.491835341321	962.559482864549
ATF6B	154.764283765316	163.956894843504	122.355409068882	170.18781660707
	270.945325305492	143.050004021764	151.68523937819	149.076146942797
	157.216793735479	148.980330875743	223.154771092064	166.346572488391
ATF7	158.608479354755	153.54898879562	161.26917182967	161.475694690038
	147.511569289425	152.155760355248	150.303703193967	162.077455145261
	155.140371265225	147.491439949088	152.074017988748	175.529441666151
ATF7IP	159.479962316199	172.355215322173	193.336246844237	
	196.990867962546	174.866036336378	159.166059518117	173.624709850889
	169.257035030405	163.612347715773	189.324370290702	165.642728895682
	161.903016201041			
ATF7IP2	211.995890899864	213.145460679531	245.978723809154	
	183.130891975122	185.485858719975	421.140525880287	275.252966071473
	327.010503005631	398.673582680257	173.624709850889	535.861738240441
	233.300864925399			
ATG10	673.824770556885	690.582550537485	529.854965483609	732.040299742444
	237.734385188542	443.444024128516	358.654569870431	359.329520507158
	335.858047332641	352.897241809959	452.517134370928	342.403428822464
ATG12	1131.22418479945	1244.67453201339	873.010676463707	1387.90327883679
	242.253995801882	400.924914238052	577.33849844574	544.669441360594
	395.588345893987	819.151876775691	438.231717096337	506.659740456829
ATG16L1	588.334329592604	601.164127925014	650.0804221227	
	775.781735108886	356.530530468568	411.160709628865	339.012225830929
	310.690317681243	422.12964420709	438.340341490622	425.59810308048
	370.678040372273			
ATG16L2	269.468453936818	270.847923557176	212.210383398591	
	244.440857688518	191.023813502294	192.627266049516	180.265418365803
	189.662974464847	191.445291899108	226.565823278767	196.908612360694
	232.127996106421			
ATG2A	271.638179116269	304.636618563775	276.284517459626	380.821355948507
	787.615195903993	295.367125961621	335.013713757031	283.46492196692
	257.643855420381	304.152390210727	303.380479700334	267.451611731669
ATG2B	183.657525723012	180.798671424395	225.438177833064	177.246890307643
	169.31618330657	161.740466814881	174.09267813338	171.086559024882
	165.808660192901	192.737713851863	171.022976593689	169.355185349431
ATG3	280.848426993226	305.096320805078	317.659548748735	313.077481033093
	319.352940751688	389.177193459	353.385210690169	433.019478861638
	479.138177792954	575.857954264295	322.837446618323	425.471195039676

ATG4A	231.698163424706	242.657224881824	252.197271817794	255.71113398292
	207.764456828813	251.588748783592	221.171478972931	210.392662092721
	250.30085097088	230.893665210918	207.850956786183	236.899421827427
ATG4B	149.586651393588	141.809577413906	190.22021453133	129.637555509848
	190.66473033826	232.641965649602	264.8472508692	210.218440444631
	219.597808863947	305.669636871734	192.580288063603	325.252108402192
ATG4C	166.46473789699	166.411219327671	181.758545723241	157.099868633958
	147.325222091872	167.491399614986	175.350734537491	169.147351642004
	186.420541099902	180.142758394321	183.583432296209	161.305860691151
ATG4D	159.257221624668	159.806221777332	153.500478301079	175.111460651956
	220.458449424062	186.263348153627	184.414609874199	176.183165494563
	164.423960071908	176.420075374686	196.169988112042	182.410688592378
ATG5	455.930204471585	485.309521583972	522.17701271254	461.822629852953
	227.236255752375	328.200548902445	314.486603134656	285.931444518474
	269.345125874858	289.09614335372	515.158921349383	322.263925912805
ATG7	300.482945704017	335.698400607132	300.443499140896	397.861172312706
	804.362909579005	303.483515328621	365.650071660806	535.354724252178
	507.040326298457	550.434931878586	277.817786943873	373.033658917608
ATG9A	298.403224729528	350.166837086936	282.719121652073	473.529519031797
	360.124745133393	223.339132121796	257.740674565975	185.876046259727
	225.238369884803	265.712482648121	265.470314691221	229.076507182239
ATG9B	113.879459563492	117.343165720552	109.044879188971	117.652693591865
	115.713909155043	118.04359489354	118.93828679356	120.36718185387
	119.802832736435	112.666812944192	117.910259090745	120.85013281321
ATHL1	284.534369213195	227.64196401771	166.570606752678	180.022646625687
	160.853480692082	130.005909892804	144.763700813057	194.014764659513
	220.742788129847	167.993851183401	278.598913464804	318.850765099332
ATIC	1656.02721259517	1516.97921112926	1628.24528041404	1727.7144253077
	1727.7144253077	1776.38646235135	1054.47292895417	1222.59895569348
	2141.855356411	1191.26028342929	830.455793617181	1720.14021303639
ATL1	286.035428568826	233.496804016764	313.773476049783	267.069665000047
	141.054587977578	153.118492567137	151.463200570499	178.035700298977
	178.304914997023	177.524818593325	202.129153259445	208.72873686638
ATL2	232.344545356395	234.661864595717	362.795691170335	220.258804437828
	234.484787292284	212.78038645414	243.65518489122	237.396466740419
	210.316431648335	389.686045618228	193.16411905957	202.324795686879
ATL3	279.790257881254	310.465070184707	241.557810100265	283.416246133873
	625.374595058488	304.985269874607	507.710604451713	277.75958501062
	250.406775889932	2470.86113150126	315.565349831797	336.5543056115
ATM	294.323621186916	254.036619126409	387.305348482856	233.690524419327
	168.790464803746	231.955750250711	239.363511706064	318.930960243303
	297.466255000163	205.987280015028	315.912220767901	244.766289564524
ATMIN	289.956528242564	299.851173200352	271.113617350982	264.741946816665
	219.228720772236	269.495247190598	219.519896184851	270.679613997675
	276.184421402511	195.438353051306	280.170464338141	292.28857006885
ATN1	277.129985959184	296.20443113482	266.756647182704	391.782120640025
	249.737588031219	173.552535486766	182.495117800073	192.680681636018
	207.417884407459	173.063002566542	212.531329857909	167.941671074236
ATOH1	122.120307446003	109.947300629824	113.38168751499	108.955761698524
	128.675527226161	119.26921157552	112.736231367296	109.613208767992
	106.982655360194	104.544792793756	115.927914533359	111.381427322188
ATOH7	155.268650584431	158.085935267091	162.660027294291	164.264079172779
	156.546769952772	165.673535349675	155.313873664923	159.327764602722
	143.125454748996	152.001155788544	157.200582422961	168.000247148058

ATOH8 277.459328083162 369.726867521935 236.326943078666 262.171775165261
1042.40539020413 207.785320401354 411.451612988791 147.882530392424
167.380798617981 147.079157199448 408.263886786123 201.893722965557
ATOX1 967.123240442957 971.170460915918 798.1490651671 1471.01897242089
959.532977061027 1003.36623972843 824.070046083713 1001.92763014266
935.423045210635 1408.08614963928 681.429327723794 846.425467119342
ATP10A 170.18781660707 158.23884088767 147.491439949088
152.265624144393 145.217261514886 153.879427186342 170.784229026842
157.058912028958 153.903993884123 175.236826554583 182.152956182443
154.499313851756
ATP10B 172.604689611475 178.045931314857 192.353768499582
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333.745543022749 357.259935567823 808.837225580351 481.86545778383
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ATP10D 128.886008923268 129.487458179949 119.475462713424
110.093565974873 105.551878332786 122.659174808512 112.832122823829
129.819820730239 118.438942370745 137.881776548665 149.585616718523
114.805810485989
ATP11A 132.164132609317 137.222125237171 128.099484678519
128.032141013681 123.817878562971 133.585425721984 139.00736252716
140.341589053972 133.027592711375 121.71538073735 125.915689078001
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ATP11B 289.517820913799 305.577166690215 301.428024926428
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307.16835174775 259.796092536601 681.810927901806 539.008286968106
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ATP11C 238.375823012603 241.527811817146 229.046153362151
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243.080229016932
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141.987635042691 134.551054564417 144.102872001089 154.627270742193
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ATP13A2 205.362816362477 217.013533525724 175.7330682766
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253.833756857339 210.448904052352 277.75958501062 330.321113875647
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ATP13A4 135.879975973882 133.875667250136 126.617737577634
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146.370084152094 145.42029807396 140.772074031028 134.533551900843
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113.924310293916 122.578170988039 111.708970469189 120.964862799634
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1271.46608195833

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122.35832958054

ATP1A3 162.57736365619 171.545695383454 156.511202150773
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ATP1B1 594.92419264579 765.532997390972 710.228463443265
481.453770150269 1144.53002508973 693.781708146282 1083.26599217847
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ATP1B2 177.151218006672 173.507835230243 141.249687936867
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ATP2A3 166.917552275021 185.140211988926 154.455641374384
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ATP2B2 126.209426865327 128.626051185037 125.556444423391
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2166.68174726155 1146.84239258543 1405.2134783352 1834.08657010335
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ATP5D 1374.92806285803 1537.71464618832 1596.33832632698 2050.34883263932
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ATP5E 1408.08614963928 1626.34607278613 1925.60246708149 1710.60409578293
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11360.2921551609 11360.2921551609 10632.4185569238 14417.2696849334
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ATP5G3 139.714198638713 153.82440233533 150.129367314696
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174.177944561595 387.908774438461 213.891435492914 330.321113875647
219.2695037071 179.198164545975 153.602842380788 388.002365247498
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145.783320434143
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104.091301211096 146.59366188125 160.382971629272 133.889858322181
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B3GNT6 279.921244070981 288.913660405191 348.808646570544
290.638110977807 217.327543190687 187.993907528473 199.597685421675
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B4GALNT4 148.274122690409 140.477307701027 115.995309578182
127.481689955317 382.744523022686 225.890195278753 197.068795788491
201.530921073488 154.71904132098 155.080900277147 184.056274452194
170.825161347825
B4GALT1 325.751369001105 378.4377409749 226.763252784108
340.193863653875 541.764013317002 415.497783305278 424.855168311509
285.05846406041 405.322847383739 287.967349876429 404.172535442156
336.490076158135
B4GALT2 179.220691178402 184.278213908263 161.408318705503
195.694473533356 213.484986945295 177.401771322485 150.218643705925
157.907190910755 149.196539425588 200.264756078778 157.14512525321
147.41591291423
B4GALT3 322.684910198242 428.462270756201 386.917038897322
391.252450588331 1484.32547474275 1169.43742964112 830.455793617181
1103.13439876128 1053.09915077366 515.929937825133 625.374595058488
1033.03719406038
B4GALT4 261.251965523684 280.798003990849 239.20206002
231.338258067616 563.011988279542 544.30845362168 448.95671696823
438.03648998391 583.314509855875 243.038392457584 497.916883763059
600.635914090365
B4GALT5 1169.43742964112 1142.09977159958 1388.91423772335
1137.42879398351 767.377380800066 2316.49886419499 3396.40593844715
1174.69701182094 1632.84261181074 734.71562355687 1223.68146968716
1344.1288416533
B4GALT6 136.508969220268 157.863585655333 145.339287846271
144.019824700027 147.799806976046 165.698527470382 131.582231577364
195.755450324985 220.791884858764 141.758827837244 136.882429810263
155.603263242813
B4GALT7 369.156887999872 451.718912714608 388.638095539186
525.138476928759 674.571475335107 300.985037429772 1112.4055726239
565.059609779245 437.049581919144 716.420861490714 425.708048519408
597.795856268827
B9D1 182.335981256243 169.984859264412 173.939159471022 186.215602572358
350.741303038926 162.642344529383 159.74220366735 185.974598267418
171.238423077347 147.338615809214 145.980929136129 142.071492722749

B9D2	193.190059954084	249.524956682907	223.551813819581	256.614964511846
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	452.077434390612	205.200459980187	336.120322555703	279.495192828873
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	136.865340099645	132.227561632637	136.952914053358	135.90207451581
	147.943844184702	135.489000274316	150.313058722346	146.743260100643
BAAT	114.3172128566	123.98775110588	120.322292418128	109.140708667012
	119.583378101838	116.810827219571	115.871151134713	107.961322525982
	113.460835359833	118.144109564626	100.966979609222	109.760525674874
BACE1	184.135651836627	170.298291784762	159.961729971624	152.821735300697
	141.117659724704	123.275246170603	123.524952603672	127.588907178652
	133.70941349665	137.920724602098	141.066106476109	134.991379445799
BACE2	384.883635849576	400.180574613078	322.614169214764	467.681480781925
	367.518273773904	304.811116024094	344.604699562938	308.679189788554
	387.068276379114	710.999354960979	289.09614335372	475.686805714298
BACH1	123.379461430902	128.135216461862	129.055874691136	126.288011849541
	133.871685084945	125.868080230094	126.715300671036	133.284873295487
	133.411087000196	144.81077501446	143.242308032336	130.138945493943
BACH2	150.021512237553	148.632332840817	148.344941331885	145.190896872008
	134.202497785854	132.913891550054	137.731390340708	137.024230648861
	146.669620721254	133.065366727222	138.940564112156	142.093180304661
BAD	237.216435972201	232.231236745251	227.668046559074	256.174286655796
	437.489929507567	289.164969943385	290.135914275115	201.256649338315
	198.356420768703	297.466255000163	260.314440448486	239.924227955313
BAG1	145.654559623732	141.093532330708	123.413596815384	122.629146433216
	140.190234214948	166.730974538475	170.108500366942	133.640832782576
	144.994931561779	140.876577029209	198.244854812728	154.066939372379
BAG2	1186.23169583595	840.276501350383	733.86133557115	1024.59845685519
	173.182013165174	160.70138318726	148.635174393031	167.087850057037
	163.632148441668	185.41739522833	145.358431402568	171.433001048839
BAG3	1038.34611017219	849.784051720996	1064.85152398919	858.524630425687
	446.819873986024	398.971838949075	692.359779743985	569.353661326724
	665.936368667321	1054.47292895417	504.617795280805	718.449150898903
BAG4	251.869781014029	246.061496821699	203.456296907031	221.975219056555
	653.047570485109	361.26540006942	265.754141836026	219.8511043213
	192.258863431747	215.931781291835	230.749601687217	220.710324965453
BAG5	374.9555524303	328.550286726543	320.525885538523	324.177924877233
	284.574888587832	254.83131041241	310.026522549372	341.564749445905
	267.622579012917	301.591430919567	311.157764305033	395.645016679312
BAGE	152.47429737104	160.628894266843	152.741229289112	153.308956040034
	156.16485596016	166.89884215297	151.770791549511	132.825240485239
	156.090871391873	165.703810120915	151.484420979498	150.059862107155
BAGE2	154.286043402527	152.082927731045	180.047231265069	163.632148441668
	156.525347260458	170.198508633417	150.835044630002	156.191659799142
	159.466972602203	149.202628825354	143.631345956176	164.836381332774
BAGE3	130.586509996354	136.632837717704	134.189023892662	121.681261213422
	127.440987506769	159.289148392284	121.084348994747	141.191500203423
	124.738217731488	122.816049839521	162.312313953026	127.150222504237
BAGE4	126.430816528764	137.513315427454	155.516697616637	151.081339000609
	135.736764623155	137.701271351806	148.049570580734	130.326980619676
	137.871870950302	139.166537591866	107.949834974369	142.889911562811
BAGE5	229.373686092654	223.918931440768	287.145105895235	189.0608798771
	176.497706091676	314.126706052299	238.183096218311	213.791379190359
	169.713585775118	198.885004378065	223.573080955095	238.724909152512

BAHCC1	140.730085305185	144.96670085147	138.899292894875	
	135.253713075341	146.290334865039	126.98588570464	126.259029676691
	131.162118170837	128.434301921433	150.843975804117	124.625603721372
	139.667714422309			
BAHD1	149.518870320398	168.460095116205	137.668179813327	153.731233276485
	198.568180234676	133.345143691828	169.482586449402	144.731299077209
	173.497575259833	138.21083121895	199.191065549132	164.61921356441
BAI1	143.752697178913	144.685707282641	148.005500924157	149.3567486207
	157.672378669483	155.883386742315	145.698637908482	145.349023185855
	138.735156909846	145.090639086338	138.42216862811	147.81143020317
BAI2	118.186426364551	129.466612376702	117.928456234796	131.597937570173
	140.201501710276	118.797046082278	120.800764735081	120.193580405229
	123.281489592543	123.45004246675	118.486195373059	129.493805009651
BAI3	214.241635800083	193.629237856758	264.306927596371	234.399431238026
	135.078198678379	142.019263564073	141.791001213681	144.623222072851
	157.759149893048	145.686092190716	137.00397800873	145.637807142732
BAIAP2	193.37618381669	192.046442148183	207.269530621176	
	223.722742062251	233.690524419327	162.9279134169	173.951605889009
	174.149718758884	224.92725876841	305.768201359278	161.700258550244
	203.475080163804			
BAIAP2L1	145.850605495564	190.754349388901	144.30519737569	
	124.391225837909	818.445501500731	308.088967616175	928.151632070573
	881.15414246017	453.457361487577	1126.46241487062	653.879734066271
	1224.49891389348			
BAIAP2L2	128.905042692431	158.784190231286	146.361128670362	
	175.28261759639	680.509421043347	160.082087242964	135.259226552938
	195.618369827396	393.115606440229	120.65473121078	168.000247148058
	476.249239197777			
BAIAP3	143.733505359106	125.634045420702	129.343440464729	
	169.257035030405	138.345393524161	144.328571856869	152.337631025368
	152.204730003016	142.29309119138	134.086301127594	169.293852989203
	168.27980269501			
BAK1	176.397715825653	141.941814923705	142.14116448528	147.463822782303
	345.433025456954	232.519482087835	151.826103919919	164.063104872636
	178.429953283621	219.753039699136	307.81941988503	256.614964511846
BAMBI	4246.19983955771	2867.63319136936	2344.11548437508	1879.08108720938
	8633.71708020651	4299.06288109563	4651.384971332	5233.72882607795
	8368.88320476021	988.297682407351	1744.58410715956	1450.44557173645
BANF1	728.930140593418	729.499296070289	987.564350211893	797.28465621772
	1427.27262061653	1390.95426299323	803.840404197117	825.034504959272
	925.205399154409	823.658996207582	734.97763567765	1105.10063745656
BANF2	170.866433766203	160.290104492275	167.900071375885	164.548505132213
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	164.641508485461	171.298701141684	161.837272617767	185.691922436569
BANK1	134.168381235167	133.305679931132	132.683594640696	143.376817049362
	149.390481900424	127.107223387937	160.695913747601	162.609829456486
	175.176693060261	127.977782260866	204.031081842809	149.910521500364
BANP	660.315285709317	735.165830487162	603.569635276204	739.251974981981
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	382.701467158304	241.418016203544	281.119138040097	234.996704304673
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BAPX1	137.500310477851	158.933097712363	171.373932115412	175.774461934758
	135.897498591391	156.626742111441	190.371287639453	161.285587312115
	153.985529457122	183.397833894087	135.422822065599	136.884799902348
BARD1	406.900412510895	410.845034795716	231.314944217099	438.958573676953
	258.532432007328	305.93974940209	168.861884032201	261.922485502971
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BARHL1	114.452922529209	127.055165613236	106.36673326724	
	112.114933398547	119.044902525459	103.772221923105	115.834056091815
	118.9428715545	115.384304932365	114.133473556359	113.492900106468
	109.886197655915			
BARHL2	113.064645688715	135.830453690107	113.891385601095	
	118.505980204837	121.893446546512	117.455432751161	128.860744370967
	123.135918415235	109.886197655915	126.067296703905	124.88118767481
	125.658396221949			
BARX1	143.082880435412	143.59105195427	138.114938404796	130.150998843383
	154.24500773656	138.434347257063	128.074531806621	136.638141963514
	138.56436658053	141.693224578298	152.760855359297	155.741507341843
BARX2	113.256481034259	110.807605625125	114.479886899622	113.620070198869
	132.141918502025	132.011199659803	115.944280729914	119.29304762171
	113.301733735994	133.659475650376	129.408282688425	124.103321614841
BASE	133.92485496581	119.558626216818	122.494779505958	121.031695489398
	131.601823550269	131.523538461751	125.783265980169	125.997109913348
	126.635105491524	135.518752716008	128.651081092914	126.090985925439
BASP1	2493.5484556802	2583.46653460894	2649.39312662326	1381.07447204233
	6021.68798558746	2230.45015969936	4124.03779111916	2236.73950603157
	1349.84215478798	932.862030475849	1918.14260920544	1619.67820476414
BAT1	843.545962045705	913.684449305965	722.399669963921	1087.69177809384
	739.085574858917	789.971871940893	716.229989890801	769.009371389327
	732.352357321273	594.38228123675	793.501244347257	818.225731093346
BAT2	375.407747753058	501.738490253982	283.874600697211	607.979208454176
	899.667912542118	285.83626978316	306.838596239511	254.936706344174
	265.536429548886	294.653534388707	406.638419179213	279.026742408164
BAT2D1	651.759589129833	567.143102792772	614.775559038663	
	508.572981581855	723.807658768693	1172.4103691525	779.340880980422
	1190.62010668045	1213.06007305892	744.808064061459	837.413261433363
	1698.08853832248			
BAT2L	393.914413372142	386.85874184746	411.285747588622	424.37437028833
	330.143103381406	240.814860403562	242.440966395613	235.091443641056
	316.895545640437	222.709720471134	508.449904285771	227.926444925478
BAT3	419.4017188518	496.03509813734	438.03648998391	663.214972254236
	686.445635754196	325.493177980483	371.224296589448	275.509805464276
	400.353795948162	396.04031733841	411.505580458401	362.581768268116
BAT4	155.641860356683	162.28074297013	156.176537862398	142.142633050256
	186.103491222924	126.732121894377	159.113259830623	136.265972909993
	156.866867371872	129.707421699091	171.731395791818	136.832494876249
BAT5	361.516275756449	358.52459123416	329.023836559229	430.412897698085
	640.255747986724	357.259935567823	357.835334661098	301.087947101876
	379.788696204016	319.018213637357	368.825190022937	370.798852361374
BATF	151.144521344129	164.223990197735	123.518170356322	134.501410126169
	298.776176246196	199.637257550762	288.370985514978	237.045634416039
	312.845219991659	143.340685579645	622.834462068316	493.715108157171
BATF2	152.526785074182	154.812587513407	128.282999719959	168.878645908397
	146.20679320119	129.023206862713	147.428180649939	129.353536603449
	149.774162138829	146.160188002433	221.768507175814	132.442771000976

BATF3	142.744045151046	158.216790540415	129.92319548307	124.582577275358
	133.443807124822	131.296518221093	133.486155360266	145.572363722788
	175.9219991997	142.41737138634	142.133238886052	128.521380879209
BAX	193.95909424044	187.30908753142	211.135364208221	182.919385608842
	448.260934224454	253.098839084408	263.379982742085	245.997705723007
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BAZ1A	254.668502187945	224.707455448421	209.5184563244	184.085616342099
	332.978350226738	892.515788744891	455.313553278155	488.249967208882
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BAZ1B	297.805768288377	298.573180660083	277.561376169965	357.191675549592
	312.129861040709	242.948136060281	264.805236346895	254.83131041241
	270.33685210971	208.045210163121	215.967319486874	284.13865992802
BAZ2A	151.115031304764	158.528301072565	160.53152291979	169.403422185018
	164.534790315992	184.530853446688	168.071171406779	181.783275804424
	162.716712951629	185.342353172151	154.443360208399	171.545695383454
BAZ2B	859.113541787323	905.233241047678	875.38834441246	1116.19403476786
	279.598585549004	444.826775824095	433.405369327168	440.404188514231
	439.122658719747	499.436680354749	696.650617523899	699.270931701696
BBC3	229.542259738438	231.915272112361	229.660838239474	223.184064606222
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BEND7	216.929969034881	211.916602665089	239.789994201722	235.183590602209
	218.735620596634	433.189221987242	232.986366625889	172.245089970803
	154.159124458167	172.120772549791	145.686092190716	172.521737547052
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	144.510062568989	166.330001480033	153.853856339585	152.435416154284
	151.801558435863	142.829099538363	149.106615763242	129.873110494826
BEST2	140.694993778394	130.09050436943	137.264095379365	139.657182434153
	140.632573759426	138.239251358245	143.879597098414	138.161690144518
	134.161664663192	138.620617643924	141.006540481119	139.993960054847
BEST3	123.318763391117	126.897804011992	123.195738824794	124.275741099764
	132.699715693605	126.800718471804	127.814109293214	122.007909794484
	122.982686879394	114.913534674899	122.955724972547	125.945916345628
BEST4	177.401771322485	183.013090662119	161.956032597813	181.098584949344
	177.793860516896	192.709473588165	160.473772347376	167.219062918573
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	224.027605834751	204.695311233073	381.740838644647	305.398934391579
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	204.770742504612	203.983168778488	176.088449983147	175.573400981771
	197.605208310432	186.951061159734	219.2695037071	180.304585602206
BET3L	132.502153153826	141.577373924378	136.254966566424	147.284005815059
	142.399253818882	128.213678179359	154.725484895098	146.157459765796
	135.645439440707	139.912325578837	123.132178371802	147.619451225526
BEX1	248.993716339029	282.137282466192	304.590636814607	226.824313642101
	453.17378995737	241.168936008174	366.007451523992	232.830038701628
	321.568127272161	185.544411160039	235.407064742194	453.926991868451
BEX2	259.900447705311	255.793823796456	309.423768054614	207.545424360094
	1929.52146517699	1119.23362648056	866.147379099606	501.005898087825
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BEX4	519.112018353676	448.95671696823	825.034504959272	402.366797969833
	1067.80176606977	499.683188662742	691.916554922896	315.786908578669
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	1518.13775377335	732.877169346979	1050.40488466179	459.171226689178
	578.297031096292	261.171723011396	393.013539328766	622.834462068316
BEYLA	138.938546468136	138.281188275319	143.974551393951	143.920134762902
	139.236217474885	141.054587977578	136.332399354517	131.882887826338
	142.272117655292	141.652000792271	131.373012256275	158.408494909763
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	383.407365952689	431.799795646414	559.0867397858	445.214621023114
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	149.422357654247	157.288308753975	135.715745768179	128.411138850655
	129.151767489346	143.360311218423	147.069488043503	153.647343267295

BFSP2	124.001295849091	116.225440873023	125.593595066736	110.804248212067
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	173.132747018514	168.813895764991	158.48793705795	179.220691178402
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BGN	5655.12135336698	6720.10473881011	1863.96986643676	8514.94395408164
	3598.30438198858	2456.36776585765	738.892511276134	2828.97255380291
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BHLHA15	128.280225530201	140.38936578649	125.945916345628	
	126.626904958599	131.473001455317	127.548070199148	124.646093292382
	134.152586955217	119.040642659337	122.125746529725	137.225659453984
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BHLHB2	1554.16120123599	2309.63504858248	1321.17236442448	
	1845.87311313269	1255.02720867812	1421.72388964898	1484.32547474275
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	2863.51286169094			
BHLHB3	233.757965816721	351.188086838653	202.778539118009	
	470.308610828825	236.191384383802	407.052451784773	367.983166440977
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BHLHB4	149.133055368147	133.165893710176	131.397850276558	
	130.898067924686	132.369872013432	147.713967317159	131.800533523123
	131.092140169861	127.58382536792	137.731390340708	121.438875373878
	126.185560760543			
BHLHB9	256.590289281076	255.156682699288	253.754869975548	
	228.45211887819	307.665281863258	207.764456828813	271.989060206794
	193.028341755594	252.697160031025	178.563665283267	225.275049011909
	183.168629351124			
BHLHE22	218.644953001365	198.113398073968	170.046856179083	
	198.113398073968	150.580133889656	157.907190910755	168.582192754233
	182.515302191173	173.761036260869	175.044940252247	127.560308850342
	160.990868498842			
BHMT	185.706228572019	299.568830444875	279.879377933144	183.056707813352
	1136.76110352875	1524.46745239811	270.181005097697	1383.68977267418
	3287.37172778474	181.098584949344	178.542247857251	360.812953749077
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	136.13751015238	140.839056652898	131.255028381669	144.193756031386
	143.349486755648	140.907889482107	132.767474034305	145.777778096701
BICC1	145.203083375014	131.340453291188	139.023486014525	139.6492947529
	137.639342727211	121.377666938052	130.306478656159	124.885950473434
	131.067958183644	138.654301345398	133.964163727962	127.585851003779
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	149.135934269866	154.347332766547	151.976432805924	150.303703193967
	163.432972512188	146.482652762374	141.722817732641	143.67880977119
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	377.27961559752	296.657844888195	440.579262120451	388.573321838751
	371.168752104821	1540.71556891815	651.43207839949	362.195903246495
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	392.539157974899	192.314484368435	440.203336761263	384.296190598736
BIK	103.99234480919	106.102093734748	116.764795914545	123.02546895475
	235.372592051464	130.736466113571	137.897243684023	145.599152743156
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BIN1	3073.40543048878	4009.22206756187	2915.72823797537	6339.16392696068
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BIN2	103.94864861172	105.49491265382	110.113844434493	119.735807506447
	116.112013454335	113.536570797896	115.305518560239	108.715328458556
	126.097544650407	103.550817366724	123.058261039164	109.176852761745
BIN3	209.304654633004	234.531140131763	184.306452616482	229.26243866226
	222.134519361117	230.284216427158	164.520247586053	163.091280469234
	178.563665283267	180.113222861966	248.729653566598	214.785381549181
BIRC1	177.831718771025	148.125665833072	158.098055917452	166.396160626179
	146.721207920553	166.692386207143	146.052153515494	144.214589452164
	168.861884032201	165.267693285882	134.147586627141	139.939863187181
BIRC2	507.710604451713	492.377642058095	406.998800177456	455.778776920897
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BIRC3	1390.95426299323	1424.79466712859	1099.80705776268	1313.89440013246
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BIRC5	137.71280215369	160.203521879896	132.628358688595	140.377179372804
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	428.09583118349	241.019436415703	157.982146236108	216.680795762761
BIRC6	360.185005480216	342.611951034707	378.891597719939	333.868818855397
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BIRC7	118.797046082278	119.352995485911	124.940836122365	126.501648842366
	121.979059173287	118.537378726617	116.305011582033	121.116206210402
	122.35832958054	113.672605838627	131.794065532001	120.672291867109
BIRC8	113.740942665269	121.603608840998	120.272964182307	111.794102015354
	115.409568875238	123.762963668211	122.430140354831	116.294180301039
	118.75237770613	118.249148086655	118.104763610751	121.087514445827
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	228.125521373477	527.139476504986	512.184962338131	301.304268871606
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BLK	118.486195373059	121.48867035121	115.142111396055	111.041656398985
	110.966212705086	110.475453268997	108.266328505986	148.96493117884
	219.080383154432	126.948090173876	119.720132373023	111.7529190597
BLM	118.465111174212	113.644993086829	107.605526304445	107.221547998974
	169.246302492166	195.438353051306	139.159510392614	195.353512458837
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	354.922901990615	274.01377986185	343.617417488962	410.533157400023
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BLOC1S1	859.860994525775	1189.69730508119	808.300067805897	
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	1063.5903770389	712.433345978749	601.164127925014	697.97116981445
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BLOC1S2	159.544710238172	157.733042033549	163.799748670842	
	162.397078614596	150.815117344434	153.767488352037	176.214950733324
	156.248684477916	163.672213020803	156.508428796592	152.520828479026
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	115.485515429446	118.060781901686	114.084543168359	117.32734978289
	120.757288533244	116.647291878845	112.624137732184	131.705912986393
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BLR1	112.166192839859	113.301733735994	112.851805868467	105.771723307783
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BLVRA	1116.95795024994	1129.76078220457	1313.89440013246	1251.15912264225
	395.049127927637	325.525450750788	986.441377365124	745.153336165802
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BLVRB	599.208370337812	609.665323786904	582.382786876656	769.34961339184
	683.179460779062	522.664475688419	534.745066397679	361.768552564027
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BLZF1	8496.2506227676	8401.40370474392	7491.93659373205	8581.41617729997
	1098.78649254838	6601.004284244	3328.99028463277	5776.63686968234
	4043.28299602858	2895.71836177599	5965.21815409254	3954.24763752814
BMF	149.078664825533	153.494456800685	149.661929885679	161.948033313443
	138.235127932016	142.081013617671	165.523150623132	140.42579083092
	154.564478911791	133.666244052469	178.976116597291	137.919253591105
BMI1	1032.11574332305	1035.0797237176	1288.3346537369	919.165331064155
	1318.3633082502	1184.88559645917	992.320202251161	817.342172321486
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BMP1	170.731358903019	173.488272345038	168.773340961473	177.393812005949
	161.229621453539	149.710337205986	151.70035428516	151.674143983846
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BMP10	138.810236692956	145.830916005206	158.723133891017	147.939682463235
	149.609501725707	139.238936770274	130.363516180139	156.402578892869
	149.453103369806	133.120273569229	134.452938571435	143.245660951425
BMP15	121.834248129933	118.064858133264	118.757973008463	115.392989580183
	115.933805625814	113.177330690612	114.182798672347	118.708644971927
	115.16087297104	110.977904932371	126.877293296185	116.5272207025
BMP2	202.324795686879	303.986544460218	215.057917795456	164.38282966938
	1189.11053680293	345.494740481759	519.564563632951	307.866499851733
	182.68965110437	622.142195892701	821.020339593525	317.949646885539
BMP2K	146.20028051948	137.675597243706	132.772085211553	127.806138997958
	136.942583515174	142.706708823143	132.973551954067	145.165443106042
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BMP2KL	139.921002429353	152.099431258333	141.74792000689	
	171.145909843389	133.570075399424	155.511086289504	129.088718286391
	132.86879723151	136.413745926388	154.153249796248	163.373180928181
	143.327234875417			
BMP3	118.689408983786	117.30724482798	122.982686879394	122.600274773736
	131.099004325598	205.65398844108	174.624446035895	246.355720496468
	118.601228886344	118.07991087231	216.836094088131	137.017882995262
BMP4	506.029788151779	451.380376296813	226.989201461085	233.36028792331
	137.258429777402	144.219104742099	149.77596374205	178.045931314857
	1123.93087912174	187.365807314802	163.284853420896	172.045843691642

BMP5	223.013753785002	240.12078342024	146.823157886228	169.158049136321
	136.240503841228	266.842778974988	168.702991603656	194.212177449077
	170.602603155092	147.858339902055	173.010799217261	225.423403713718
BMP6	194.724219884752	166.489436134841	138.950197595669	128.402511355513
	121.668166378914	129.798965780918	120.740986472733	163.51024840263
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BMP7	147.043228493047	208.321765801227	128.695126347193	125.666013736767
	233.71520737817	274.736124442229	309.0578543424	146.649944669876
	277.026538720417	135.151438845363	728.176339659082	688.684644604218
BMP8A	124.119104345119	133.879079395215	127.407418037777	119.755151432304
	142.043121538885	136.362761829761	120.35956894661	135.730331297139
	128.075865243385	130.240366272285	134.85809559975	120.371374172279
BMP8B	296.088938872643	288.182388699147	258.964323941464	278.687780705367
	181.425012248539	277.86338481075	238.847091900666	251.869781014029
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BMPER	137.361967082029	126.893023101449	118.533346268154	126.462522391125
	117.642441794442	123.598210440312	122.821563586744	117.024039521425
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BMPR1A	392.365008240567	267.028096234702	330.641230715217	
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BMPR2	674.905270154355	719.13080264227	653.500279510032	546.274050902567
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BSN	119.972337070176	136.248506185974	118.360186663758	128.184708916755
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	127.305306470493	115.834056091815	116.934457270701	111.43827410589
	126.542112891953	127.451155926679	146.882746173951	114.209249333221
BSPH1	147.502116289881	142.586051173329	144.961976523279	155.91493956251
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	155.828962183804	143.951756384507	152.823566129571	164.603403251634
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	258.075566417241	118.465111174212	132.591496435822	140.244052740397
	125.079330440615	126.969504644414	136.587165242663	128.363331337379
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	1641.70484603137	600.430996779799	312.845219991659	2786.35558271661
BSX	137.220718873614	150.534608517044	141.36525744062	125.861564323476
	144.32655838488	137.890006487904	147.161720770972	130.669539169739
	138.760800146167	134.178733595096	148.437676259828	134.655842662899
BTAF1	935.423045210635	736.603605876572	775.5664718389	761.097992055119
	280.595515386655	471.598175637494	603.764427348016	747.077451281453
	410.731869154912	406.369889501135	553.198321853202	655.431236290512
BTBD1	252.432175363972	233.029655807246	322.889296658955	243.159062832085
	319.927209914181	391.644649726254	408.444629429553	307.316241247336
	339.448524400708	399.724529998085	332.666916002481	417.191960489528
BTBD10	466.777454704543	392.282956362735	589.953707188378	
	430.728137105601	261.671277686467	447.372026268156	395.521241316058
	438.146919555296	380.888728347647	645.183207984114	497.53605530806
	456.530337997907			
BTBD11	123.551225884748	135.353539458856	121.154389729409	
	128.280225530201	282.742833166843	173.879952136931	202.909188070184
	176.198555355383	185.063870458561	428.959561932229	194.125840053843
	173.919504730673			
BTBD12	266.347965690851	308.767036855508	317.802633831405	
	397.064325578854	282.561381978659	263.74335003375	394.73732350607
	374.033009122079	345.732364434125	319.417555901733	328.486476842582
	266.252875242286			
BTBD15	366.240941980786	363.343480850598	355.879841671975	
	342.717252404581	209.417052464583	207.920724788669	304.844121431627
	241.251507026982	237.492603094091	190.939726271153	451.887564294551
	277.406445570925			
BTBD16	265.791342287571	295.241644408321	256.590289281076	
	122.557981210434	363.963951509433	1301.18893681695	2374.1382412432
	909.727616721285	362.795691170335	119.062611098235	2233.00694575483
	6560.30885074315			
BTBD17	136.089888639987	146.378522944864	138.875827888646	
	134.041098536814	140.588811000948	145.131215503044	148.695212949639
	144.610341215903	149.579428189895	151.635752404534	141.929924728222
	165.074983746785			
BTBD2	1620.7954553764	2183.18692530644	2132.90676194993	3255.91703674439
	4800.99572384569	2468.47687203968	2567.4299860517	2426.2098937241
	1796.26091584668	2340.90990677253	2043.73482086765	2157.50118108142

BTBD3	392.430873293903	386.679822751367	464.577839898252	346.566241319814
	270.181005097697	578.084277076692	315.130912368929	320.597495751519
	281.846246549202	235.961605948276	647.955521647635	368.711718874343
BTBD6	1002.44383771056	981.781076110568	928.672013047007	1000.91520225219
	1281.9073569335	588.076436392983	880.719593734606	908.352265585374
	950.144166422001	1103.13439876128	1099.37392456694	974.007008568051
BTBD7	212.710910778949	226.841838641151	213.833894542292	229.284931844047
	180.523458795412	170.350891928203	200.518684601283	211.419445018736
	183.416437587938	184.577511730401	307.768302846647	197.341423434688
BTBD8	138.150616787218	135.675570204709	135.622888091037	140.051904905695
	136.783974483005	133.820936825552	150.203281104753	134.45677772672
	147.457193565877	143.349486755648	129.294026995663	136.135223482208
BTBD9	177.023536553193	159.0794075765	155.997210529742	157.919709478746
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	155.158028043823	174.807363753172	158.679903271595	167.325227483198
BTC	279.879377933144	285.172001915966	205.728673153914	364.766154056243
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	2804.99820187198	3474.0924656878	6560.30885074315	3455.20639616159
	3222.23985545506	5361.3600315322	4009.22206756187	5859.56559124843
BTFL1	132.671227062948	140.482728188987	133.62358240645	
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2539.87833317526 15194.4972103372 20381.3859535625 16642.71853486
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 CA1 122.153996665065 108.118551275778 114.14858855653 119.188446525733
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 CA11 180.761100930677 172.8993416872 176.11287574658 160.865949438448
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 CA14 138.114938404796 133.796029401157 133.911650164508 167.521700144143
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 CA3 126.3539479619 137.172030225913 137.823152565933 172.961115357569
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 129.179188863839 132.184217000689 121.991692204056 121.619593453259
 CA4 220.113261580385 261.366143735074 200.712182818203 260.356834114611
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CA5A	121.336932276232	104.780306305981	121.134305707234	112.904318310632
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CA6	122.868393258957	125.107483348755	115.933805625814	115.316430915446
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CA8	118.9952230535	119.315932907373	113.756115251188	113.529619135543
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	107.91011371422	126.544685937984	114.512028664352	107.385565665491
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CABP2	146.318052064937	144.751413348459	153.206468539619	157.623092996114
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CBWD5	203.553696099031	187.205674045893	285.214585324341	190.754349388901
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	133.579067514064	122.079685222733	132.584454429269	121.826474059574
	116.46192274217	125.025064237439	110.501341211051	123.571641517019
CBWD7	141.999730335668	130.073005698714	134.808485735121	139.505864135281
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CCNT2	187.881334544018	191.160340745501	194.388383297922	156.010027635627
	170.465177938235	233.536023295039	171.844483419604	234.432954093705
	207.104548555929	204.959164579011	219.103510284905	226.086733606951
CCNY	732.630306104841	619.045921382959	738.892511276134	562.543347322063
	699.270931701696	574.399909181723	497.411169898778	367.025117016472
	422.840163973614	408.361368902627	447.909277144896	560.180656219785
CCNYL1	151.508738608925	161.144841967903	181.467708718758	
	159.138344477256	158.167384416968	296.333944172375	167.357570666817
	227.884445686928	170.878962027347	388.477382640003	154.388776919015
	182.209056248253			
CCNYL2	141.772724512502	137.789611340925	132.698721834882	
	135.673080643346	135.509927917168	148.57301274812	153.114065147266
	130.754320787628	135.810476921749	138.471894596606	129.007924852801
	135.028746262383			
CCNYL3	148.74881415573	139.679681813932	135.781190598068	
	132.998223400178	135.368203841678	130.457981404612	120.406577236405
	135.311980936088	140.06989960847	142.821131835602	135.592128081677
	134.434198188045			
CCPG1	451.496617003797	378.695635790714	481.933386283351	400.180574613078
	184.085616342099	208.690347128273	175.805472275887	188.654966029389
	186.140970908638	198.456392063513	196.839016616283	151.073257114127
CCR1	129.680406696779	137.720747340105	155.114892891737	149.88598449818
	131.138322527536	138.916830356763	161.564505054217	134.140533647509
	167.933231844271	159.59942312149	163.165374495635	149.899789105328
CCR10	159.424105896749	157.631978594005	148.713747597311	148.100508271232
	148.47415004128	140.826051635712	154.288075172115	160.164327420125
	143.528208105237	173.440596296333	142.097126256137	167.341759854203
CCR2	139.063209125209	138.62308708151	140.239948346946	137.76307316083
	138.652735298338	140.110258415883	135.221786448517	142.452409969639
	157.358696886078	139.023486014525	144.769824608083	138.792521681771
CCR3	119.915330116696	121.51208055933	119.122305582754	114.749597426757
	121.997885377703	113.716741872499	118.718048764985	117.879058520659
	112.747067417774	118.93828679356	130.532559074698	110.61165787102
CCR4	120.182787241888	118.604395992281	109.342230674869	141.139737175648
	135.878996521596	136.654902685184	128.108066199718	129.127563278016
	142.38097037888	115.072622367144	144.603401904061	134.814082968113
CCR5	140.036463888037	144.231539210695	131.87404363664	134.405155876727
	129.434594784981	131.362128083159	122.412141495264	134.247361216412
	124.124076599417	142.869595099569	102.522925993233	128.720517906732
CCR6	9994.54490550759	9852.51412359574	11598.65499235	11071.0448447818
	5965.21815409254	11598.65499235	7491.93659373205	10329.1999331936
	10106.8225600705	7771.28016059011	4732.31591164752	8140.6363797934
CCR7	125.371128588617	130.698850298016	108.21185649774	115.34945441214
	460.742037437298	218.96845208513	245.522497675754	351.934158805882
	1610.38263368771	141.180647782041	224.135228192655	185.447093292348
CCR8	176.964088090133	135.961724275921	164.665907233149	175.245611094434
	165.122737166322	158.845174721328	176.964088090133	172.438141471784
	157.944355564411	149.659505956629	150.968998243223	169.321832528939
CCR9	132.100026388604	136.584199831088	137.968932080074	140.251168248117
	127.445199722147	137.669753723768	135.17827963343	131.159946917777
	133.524698103972	138.215708514725	141.950778601653	137.639342727211
CCRK	380.888728347647	370.390323116113	493.071213662125	500.643499051523
	286.818166898922	221.889331385023	214.684538620841	213.833894542292
	245.454945056317	214.824908522393	211.844563155792	206.21848253717

CCRL1	135.915252483475	133.31378749951	135.085039737228	143.881744063934
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	161.104993402456	160.766121558583	134.298521475727	143.644862018676
CCRL2	143.969566798989	142.043121538885	143.705475208192	143.839170216353
	191.170105307944	179.863096463897	156.543267949167	173.225064625094
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CCRN4L	150.371716899336	156.399808270033	152.230489051339	
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	172.7330526128	185.17273221366	340.301980622308	168.634534857593
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	306.946103334814	269.424055734143	255.677315946354	238.375823012603
	218.735620596634	276.830814061474	204.584643964409	236.548439331855
CCT2	769.34961339184	648.38049615541	970.166036472486	618.058496806334
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	1774.22769195939	1439.37593006882	1131.96129284658	1605.2454230722
CCT3	773.330948077036	724.777166238211	1024.59845685519	922.50743596248
	900.839073800181	1362.75971646355	1074.19589851599	1300.40889834984
	1165.95924778817	1051.98943987926	1243.96721244424	1504.15682715484
CCT4	173.260348096238	173.611295051326	189.082778234831	169.136919982294
	215.47323777134	239.12905945808	205.362816362477	226.173501275026
	170.212679845194	210.117033165026	236.809829701921	164.181915898563
CCT5	240.054164412429	264.109049504585	237.01460308334	236.933960698783
	304.713434036642	499.176926371542	192.680681636018	400.676876982655
	220.92105843037	158.429761055869	230.723142236623	246.850599569231
CCT6A	529.04238100948	494.604716660887	652.201948082657	494.175437345451
	422.338508598153	583.455617065556	627.526008812413	872.320823993033
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CCT6B	202.887417145119	192.188662949149	211.679799388351	204.161375686761
	261.469732730752	195.711047893396	226.936810012475	219.814706416471
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CCT6P1	413.687046868111	408.7151485563	637.30300219673	
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	648.549890890375			
CCT7	1024.59845685519	1139.76755449089	1301.61742965939	1163.13845502757
	2300.9407349072	2139.42448145954	1514.53784631689	2063.42824094932
	1293.38808483663	2101.93705983383	1255.02720867812	1472.54829263217
CCT8	1401.67503392145	1323.91781040143	1592.29734618345	986.65554605455
	1143.0779222425	3270.88476148156	2956.63335018838	3890.14358014877
	4457.64479507833	2414.22821062457	2433.83421295012	2941.69058596077
CCT8L1	141.085111670206	152.080057231881	122.978576290038	
	128.446229320855	141.94585838352	145.204870282027	124.558026853954
	126.333814565085	138.407207709066	143.857385585662	142.806728419652
	144.829773937102			
CCT8L2	159.820341130737	159.148717478277	159.7197697044	
	142.487424651482	147.040759979063	139.109712542702	150.073816271065
	130.760835441776	152.204730003016	144.087004064416	158.854659281803
	142.475646565816			
CD109	121.23469201559	141.119491147925	125.642282323003	127.310437599803
	124.876226351169	118.076139318165	113.913337223716	112.962180108363
	114.174153178166	146.014790698087	136.366798516444	118.342067845126

CD14	999.159652508318	838.93563319979	601.800326895295	1022.55215097491
	902.822697602452	672.348723983535	461.143361255467	688.464980326689
	1520.59210521859	2305.11856249143	867.601542930533	710.228463443265
CD151	3251.62784659994	3850.41246770812	2891.03258768937	5846.17594234628
	3643.11229751348	1637.66306286151	1563.71477584676	1738.96798001895
	1830.56003081769	2261.31473132315	2684.69013589621	1519.38642390142
CD160	125.241484840139	133.031431118772	121.103620738719	127.905616521853
	122.517559025268	121.553107861517	106.182551369456	119.746227888415
	124.705614182596	111.596690019694	143.47200560038	122.042136913991
CD163	180.902950045351	174.313718712035	168.314966639178	172.310673499572
	198.840533461525	301.087947101876	167.474790447134	365.362177671146
	401.750302347978	214.434355263652	306.632103708321	167.817232948801
CD163L1	146.828099826146	140.936204899093	128.287127680554	
	157.248117633013	170.516743115762	154.831307586538	143.953043041292
	193.008902902654	167.620915011868	168.384397488011	177.103802332144
	182.222567053422			
CD164	375.651196211048	311.157764305033	325.320888625297	256.590289281076
	311.375563161772	433.314881387431	471.720496000839	298.347201056937
	271.004741629789	341.714401872192	772.776364492813	434.716530273383
CD164L2	160.315029612814	161.530878860883	157.83121828793	
	157.067264221207	176.27969404442	141.548272427617	196.889520085412
	167.416417895159	146.318052064937	170.212679845194	126.100454068838
	153.088710298368			
CD177	125.058165131184	116.806720503431	126.428284589412	119.346574301289
	118.117957479382	130.653971083035	126.766964875664	121.743701509981
	127.26820735867	136.630678899513	122.793816135585	129.322481607056
CD180	162.592306630033	162.022232949254	163.02140155858	175.562070915794
	152.341361646984	160.773510498005	150.235026770931	164.227134687088
	150.091854035356	166.014450044695	156.920867019849	159.49930229951
CD19	119.498312996987	129.297217956843	117.724353829377	130.156775178934
	126.185560760543	119.131613164405	141.874188629438	161.877378749103
	354.579728909336	116.507315786826	123.135918415235	113.582654469735
CD1A	131.256325361974	141.085111670206	159.686279002456	141.686945908315
	148.510023599641	179.985468369202	278.335289966805	176.506227858258
	168.818595386221	169.321832528939	163.203582580217	161.441613587571
CD1B	157.108043150259	160.395053149199	147.661748633455	163.340435089911
	150.866204945762	159.848342125486	160.975741751317	187.389039221193
	172.276968413879	179.432235153344	138.244585395561	155.507030276749
CD1C	153.126111237668	153.38494705081	125.861564323476	148.641780441227
	128.599254558082	144.968459820523	141.558927907067	154.574826922632
	161.050438117555	149.520911664673	143.49969914174	145.630497368137
CD1D	127.320624058583	125.899200544217	124.452631766045	137.519771130707
	134.712040258989	131.136073942692	133.141683141696	144.159316670264
	145.090639086338	140.545351041252	133.581450824362	136.267313223808
CD1E	138.116568200293	140.014167357286	141.431172407792	134.489421865495
	138.386391726042	150.439715066903	148.797226586765	175.7330682766
	148.286700314107	149.547635666621	155.290648078877	135.409613764459
CD2	185.17273221366	197.947433984294	169.895672129542	173.714940254592
	186.640167849568	185.41739522833	256.590289281076	331.795832780176
	565.313436777992	278.005620372937	300.247304779062	204.337844243869
CD200	196.363005912532	163.234966251618	177.182321788711	160.272632590118
	134.166297738657	130.607857562345	134.544368736184	132.786500984297
	140.74035966401	143.574584852426	136.623658204558	132.622032754473

CD200R1 168.000247148058 151.655854407186 148.883263903527
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 136.19725093985 139.423432468886 142.238908711402 132.081286801266
 141.59046197203
 CD207 146.6306281408 149.294728629784 154.499313851756 150.931114848235
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 CD209 164.241874094897 170.198508633417 143.262288751967 203.244917049745
 178.262619516994 160.035282578603 124.88118767481 179.663258610881
 195.400963839097 158.660859266099 227.350260241585 154.935741493562
 CD22 149.744358230709 161.948033313443 171.795878750365 157.436513275737
 162.923734210933 161.77611826709 141.597692730835 147.006482557682
 166.12184890921 148.729753117861 164.281196089736 154.818414925242
 CD226 113.122185375734 111.161283080299 111.253743009588 129.307025798583
 120.257886394616 117.628564992187 121.505178996279 113.184495948936
 123.267817390796 123.488418655586 124.275741099764 114.68345964966
 CD24 508.127470400078 642.647554580301 319.812293134357 226.020769172424
 8787.57716309558 7144.3257417116 6470.73189429877 4335.76831372031
 6358.5018930218 5800.06300826802 5138.28186306948 2093.67403119512
 CD244 135.840528665314 124.121555438466 168.289492873475 127.099995420363
 132.17294083844 128.582520754296 121.215558351076 134.86940314824
 138.773042747912 129.213523302268 158.809865241567 143.873048967535
 CD247 201.256649338315 194.998142472864 155.842195370853 186.529656751005
 365.199125315964 159.693019552703 194.063827325017 327.324711245289
 546.399972543938 167.273378118452 269.100400678077 177.524818593325
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 305.93974940209 215.365809536522 157.499803444188 195.185025611945
 428.569462312363 592.822841077599 185.560737176115 227.884445686928
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 232.465880700217 242.971958493453 287.195290301363 250.037172478288
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CD40LG	146.693573104487	147.096559685764	125.624661345169	
	123.625734357908	145.015434711984	130.776213987522	131.202090507576
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	302.532985701607	701.481003619067	551.350758868377	485.731287873723
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	1047.78978081493	712.067161025165	1650.77281891596	2116.39371296122
CD47	569.967953318205	564.588706307423	551.350758868377	496.03509813734
	191.525291860022	554.800688991977	408.263886786123	270.021093158885
	347.081036934975	682.075583857856	354.205670284123	319.090371885653
CD48	202.129153259445	147.720061897962	123.132178371802	119.612288460361
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	508.127470400078	136.269445455239	206.113290588613	125.234097725749
CD5	111.515588041012	108.557097186828	99.9173294438729	104.36042819601
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	131.185836673529	102.786517901308	142.03837243998	107.76497424356
CD52	237.71636970719	226.678503956411	239.762135294506	226.701637237203
	194.529045934216	284.798325549665	269.673122990604	551.086785904249
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	145.267225993057	167.451782810394	148.874533472738	201.517356610591
	254.607324522225	180.54209603289	179.389797867379	152.648490300617
CD55	196.096936985479	218.862705238592	278.274343962656	160.243405030742
	361.429760858441	208.611557959861	323.20628717764	221.18757533703
	239.388546850124	305.096320805078	687.494132125365	175.417320301614
CD58	201.569913451219	182.181756507598	206.071709262227	162.15259972225
	256.873090834376	379.200576951933	335.142319387164	294.17588071297
	265.829122816166	461.722481634933	343.200277800027	386.817736004263
CD59	260.443814523694	271.468939477052	244.440857688518	227.267783818298
	174.375388013694	225.480366837274	234.041863839123	232.892635502424
	217.491746961471	347.081036934975	361.620362526358	255.225145197422
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	156.001983149983	132.84666796678	140.212048180435	132.478801067837
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CD6	151.831627236638	149.661929885679	120.329105003959	117.619337212037
	188.242091666446	129.058085094891	136.524640445539	196.839016616283
	330.080428155378	130.022574966461	284.638865013916	134.2267111030456

CD63	4457.64479507833	3757.39261544326	3693.4058156307	4457.64479507833
	4465.66734676111	3149.26998719015	3455.20639616159	3237.94149351627
	3905.35300751401	2172.89794460273	4377.59943975549	3570.21370790206
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	537.828979447378	1196.34528225417	1809.58702081877	1099.37392456694
	1277.0921553877	2217.82628612929	1018.80178630497	783.373390305885
CD69	182.439945229388	196.014841240142	151.374665021513	166.341564850299
	181.003812824014	225.99848688881	146.606442726047	187.978627462391
	219.288597751645	197.427788552936	156.453108485249	143.207187847583
CD7	156.698856643638	160.042251279235	136.722636695506	146.204122329465
	197.651165059354	162.203570429542	152.503159091556	206.669783013221
	379.476768908492	170.18781660707	164.253219197128	157.546123603057
CD70	152.146033353926	144.311620064675	152.796423361971	153.214696479001
	139.943915452851	154.64077390011	147.52178512946	148.504996616452
	155.752117896424	144.710613442383	163.396651801661	145.333097940759
CD72	135.493053871272	124.368438691944	131.449370465834	125.463718280745
	150.311274161073	127.712004247155	125.26492723752	146.345451252228
	183.482640529727	125.299513989334	165.350777445902	118.047978285706
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	1189.69730508119	541.351092873522	848.620986404914	1973.20689165831
	3765.25491426198	721.11578916385	1373.08023518911	942.900963522948
CD79A	140.603933807629	143.222342904886	133.080437161283	139.39112068213
	149.508432746895	147.49720952988	143.442361602626	210.103974340881
	354.263934274937	150.297422529071	153.792925101459	142.07664288788
CD79B	196.759802659759	214.241635800083	177.919885012006	215.897620927751
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	440.916522871266	164.525784478026	193.052112923573	194.445463745418
CD80	143.385915173392	150.72835989269	146.032456391441	142.427198128376
	166.232856234879	153.633095853017	147.870549240703	150.376234759097
	169.192327500032	174.059172465573	147.401387099359	182.77693508164
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CD83	224.186573847185	234.301520483864	189.708396835236	210.852300463808
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	301.695991929957	223.601312199935	204.057019122032	286.818166898922
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CD86	141.925012927873	142.759452994928	140.096717188376	142.156488113764
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	326.758278851698	421.056268094661	242.787656836745	327.062810389635
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	174.820064644203	182.77693508164	180.913502162011	149.842326869644
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	277.75958501062	242.382534384155	171.130215858803	278.192669077191
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	122.793816135585	126.362418476129	140.191264837331	125.789509802098
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	149.213990424575	147.684875777977	151.345630073141	152.942824158634
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	170.720018572735	260.715580924916	156.437949042181	316.081825144651
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CDH12	152.78638215326	141.255406288178	149.925051977052	139.557059245431
	139.938739652347	155.108146847158	127.03153185998	170.725486814469
	141.996233801459	147.939682463235	149.423230365631	144.456324230938
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	145.42392518235	137.15288362126	139.113675690483	125.666013736767
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CDH15	133.891337645936	141.198692540628	132.933035878334	127.578272480621
	156.702300398105	132.249906289203	130.24527031028	127.665162524824
	133.090474303043	133.125084506877	150.566842106244	141.186913979346
CDH16	119.422996538444	119.530214079037	124.942701123337	140.05012958679
	127.507557925713	137.58025011566	134.943005383277	126.305273697185
	131.723229807439	145.522435728191	164.641508485461	129.654234837398
CDH17	164.917470819096	149.808222023726	161.04173806448	161.430219824313
	164.357373919714	155.43577761798	175.784250947874	151.362686497226
	155.899547877596	165.092451754065	127.745801270205	153.276938815536
CDH18	165.682617337317	145.711007027894	152.56002779985	148.340380102097
	150.981208776163	145.741465098455	141.822974252935	150.112549201892
	145.912712700067	150.920224503051	138.275371291639	148.82034800623
CDH19	194.60309399944	172.973175988757	197.405472374722	176.245698601389
	135.485867373592	149.153827025981	139.679681813932	142.49005761699
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CDH2	332.666916002481	282.742833166843	704.653073777277	203.317264638828
	127.354826381656	139.380610974147	134.877046981678	124.503016568677
	139.358218798638	180.80811429888	156.043994260248	155.542691937539
CDH20	147.169765031208	155.04585737344	166.1677526	164.1572198075
	147.292241873554	140.460927375243	156.262515148436	130.201635099678
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CDH22	122.051473363557	120.126700838056	122.323876787207	120.300291760091
	120.170269310738	131.241878941749	120.835207882788	126.056493244568
	123.072413274454	122.860898886143	141.486042999328	124.080382291282
CDH23	147.216303852902	150.134337895481	133.419239158866	144.746134643761
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	166.735962853075	129.828896822571	332.296938254329	194.637233028442
CDH24	133.757741295765	133.095245865663	129.408282688425	128.626051185037
	140.074841537258	133.877857711552	139.981905225845	137.198654302648
	135.63604256516	129.549673572516	141.043668963717	134.57472034679
CDH26	146.457939801041	161.072844903925	145.635453468646	146.526744516344
	356.05426191171	351.02823853348	612.61438059983	407.442337662943
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	132.297716337104	143.647714966406	136.205702793983	116.118745494794
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CDH6	182.633773540249	175.372355078713	177.267145265362	165.262738484387
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	126.856038484436	118.589392612801	136.762273376313	123.375592272781
CDH8	126.806537241253	137.326796995017	138.902097203056	143.793506250131
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	130.135721123253	138.316043447788	154.746081871718	133.78629612147
CDH9	145.887262601586	125.416113646128	149.99203906203	162.096065738375
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	127.398873370484	157.546123603057	139.131857948357	131.146604635155
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CDKL5	123.351112976814	110.501341211051	115.184395637553	121.231939494619
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CES3	138.510722755317	147.728018766726	140.06989960847	135.458682745495
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CES7	129.976540483758	142.311108110185	158.531514776098	135.798387504219
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	113.995301093609	5846.17594234628	216.485113690708	219.878230463206
CLCA3	120.883785696583	135.049657594221	121.387799881297	119.005230164124
	125.574201687659	114.200099628087	126.162713269943	120.493082096235
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CLCA4	174.100921524023	256.924134409998	268.698146407497	157.277051544704
	348.111872425949	2508.50428529255	3938.94050658589	383.259887828605
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CLCN2 144.787836177147 159.479962316199 143.741676966126 147.666724626127
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CLCN5 166.355086055404 157.028963417138 171.006582229921 204.137195524755
180.590215659031 161.172420368335 185.727947276958 180.035652063942
145.97330701968 188.623897093065 146.26304624648 161.948033313443
CLCN6 289.257002046658 276.714748212739 319.685597963267 313.967636827811
205.65398844108 200.944865673409 208.983138060317 220.242344043437
214.739818213164 195.906137340918 208.611557959861 191.467626362851
CLCN7 1327.65573168233 1699.17470788219 1255.62991601665 2222.16226526877
4291.1724030909 1181.1611856364 1452.63736288691 1600.10235468018
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CLDN10 128.102787239877 134.412129843957 138.079494235456
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CLDN20 165.932628858503 164.603403251634 152.680068580858
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141.730912072471

CLDN22 155.30926640293 153.592819860747 158.163599942547
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CLIP3	5207.37974585707	5410.50736002544	6214.77579017084	7342.79622458743
	208.385295246155	185.002106079042	183.130891975122	251.993821914623
	324.481229901658	307.16835174775	166.097952462607	155.938283930571
CLIP4	354.067771806542	308.281798808746	696.475639532595	255.225145197422
	156.296046600921	223.918931440768	246.88857694249	184.260835471542
	177.896726792666	413.000072500071	147.362120584524	218.917357155289
CLK1	857.55777793754	759.534249620343	1311.34904760947	621.173315178959
	255.462706428149	498.812823949508	472.030150842569	522.400055538966
	521.215655189324	745.153336165802	552.494327858264	502.281584081805
CLK2	238.654367531982	254.424207773566	239.871536598083	259.472319994929
	316.409887372431	283.048002376743	306.632103708321	345.649572073924
	278.005620372937	259.316557834724	355.714202328378	350.983969007868
CLK2P	151.619329363527	151.083551412109	148.094036534405	163.926432479673
	151.167024833049	152.353494489233	153.687536747147	150.247639459773
	150.412929574507	141.857434100065	153.653453808799	155.91493956251
CLK3	286.282132382462	320.597495751519	326.758278851698	410.216584967666
	331.937313503755	256.729891423908	334.916875239616	252.697160031025
	321.31562287169	365.727197088581	284.831817899986	388.477382640003
CLK4	230.546762514966	239.050379187643	316.524115715585	228.968779778407
	136.691865286093	161.084088366981	178.854873582873	181.530767521222
	164.865846124876	196.566937667522	217.45700166961	160.227729155903
CLLU1	136.466367853188	163.22480684222	152.54039461337	162.464201058576
	140.254665008195	150.933724024651	173.97085982677	141.512008928271
	137.070326499918	151.632801137039	137.899291413431	147.77916610545
CLLU1OS	114.242056888286	100.216750525986	109.680532131035	
	112.747067417774	115.920514336615	117.069094451283	107.949834974369
	115.80245224388	111.876915242732	111.886543737378	109.274221164316
	122.549274599774			
CLMN	150.156865995098	149.471240458766	141.292421722594	131.973896985615
	185.583997792931	140.583804906052	157.301617257941	137.745887988474
	147.638057399165	135.773386496434	165.890492422031	137.877756077011
CLN3	226.960024551778	270.490971664802	206.825575257029	305.768201359278
	599.52440136406	306.677271064305	353.243400332397	296.088938872643
	273.61337724143	223.638850960288	417.442660073269	229.567444213626
CLN5	328.969023478451	338.510045856515	320.812909889014	281.44159425243
	215.019239034819	391.185365567603	307.124331101976	287.889774984754
	273.432712475089	275.509805464276	486.334840298921	334.52685347521
CLN6	148.25001336038	140.678336884951	125.500790447338	140.099069486005
	330.850098426464	163.432972512188	174.075670633438	154.190469538568
	174.461487057542	170.164668347783	188.973595445056	164.202554380274
CLN8	158.263657373911	157.997750997487	159.41078351918	138.936872956065
	140.323425587628	139.025598691696	188.952730860801	170.452989060697
	144.675182563174	157.410205523901	171.69834783037	155.608876496443
CLNK	139.260868989409	137.006917665541	138.810236692956	149.483826392464
	134.172033051676	121.85247363239	144.007071548045	143.093156971372
	133.419753427423	129.780648518219	151.546908501054	137.570343435498
CLNS1A	866.413995755699	921.546033242474	952.357976050712	
	825.034504959272	1426.56252600395	1120.87534972745	1923.19560386389
	1072.37500318471	1361.54107116915	1326.95332435394	1569.13457493554
	1456.76683429755			
CLOCK	240.75934760601	272.500572765647	266.964673763497	262.671819506189
	186.167877791105	231.600532144945	252.015257713669	261.251965523684
	254.036619126409	274.235001739215	261.117845544884	257.100909006193

CLP1	197.618757939729	201.441808401878	217.940575516933	219.129781831192
	228.414049417352	292.965109701719	260.921177985439	228.713818522476
	240.341031437493	251.869781014029	222.005022189667	258.727309442475
CLPB	143.093156971372	131.263641389894	116.038950886552	127.150222504237
	125.528638246486	131.904624845305	134.27783583528	141.463324155943
	124.796876920269	136.2727333616	122.679628839976	131.879526177089
CLPP	328.486476842582	381.323457262383	326.570967321756	372.81255844018
	1084.95095717937	634.774041584043	468.82816089485	514.799179506754
	337.271784551586	460.408628542721	341.973002478932	426.649095732979
CLPS	149.004343851423	157.248117633013	146.775403409562	135.038195181839
	135.596007994731	146.440630638891	157.901967487277	144.321757243275
	139.572562105377	145.988387859158	135.313148180961	130.33205883588
CLPTM1	512.184962338131	585.371892598422	365.82705202869	
	756.390518977556	3008.43964505208	858.020739710943	708.056533282983
	665.602699607102	717.025533065694	499.683188662742	584.433155497378
	572.049540360134			
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	1013.03054571763	2596.43650409044	1307.96033038529	1448.64875525408
	1465.2419150392	883.702573960415	838.267069860172	169.077657790409
	985.637230639964			
CLPX	235.091443641056	255.198862778405	257.813193543819	232.105867345662
	288.370985514978	354.067771806542	376.791876040886	300.83667045718
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CLRN1	151.780459290205	153.350690419636	165.480489678822	161.12121879514
	162.274094333189	163.41031443893	159.346890686719	149.467626202395
	160.91894600916	165.274189050141	162.574338133241	171.254015232189
CLRN1OS	139.991780068793	119.75069850668	140.904883114871	
	146.306467130749	141.606501859513	129.165440930558	135.725202462502
	141.691135410429	129.421772713718	138.557464672111	121.44564199541
	126.127630885864			
CLRN2	127.183924911179	139.932849289354	140.123348569709	135.003236040032
	124.164523121103	125.609542142983	134.331420680628	137.850437814788
	135.776154891006	137.79714923769	132.186120302011	128.788443476759
CLRN3	135.651829752462	131.532660547328	120.979417552159	119.352995485911
	122.996616773523	129.334217858282	121.53632327554	124.533543270311
	117.923459503989	118.724348027528	141.059033576475	124.772219140795
CLSPN	107.930325780047	107.239841465534	118.875640081461	117.22284971665
	120.727504500018	122.68719599986	106.341910466588	111.409447323674
	113.822580779824	115.097376525707	117.598778415488	122.773736159743
CLSTN1	723.250763797522	962.559482864549	576.10291008626	
	941.572186137467	826.314416168552	517.881547706391	591.641325402032
	448.260934224454	362.095074331893	816.266384662324	523.717949503639
	708.056533282983			
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	118.836387680022	127.077668562103	116.839796680107	116.421771593211
	118.558673085303	118.126133973555	147.285764611006	148.090431893307
	123.058261039164			
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	157.5032461329	159.245344068037	147.309245779031	156.594337089784
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CLTA	607.499206410372	614.514126276981	671.387334588652	642.934824227327
	1399.41653736746	636.382696018633	683.655205499779	722.399669963921
	708.779490017407	1224.49891389348	1096.10636044885	549.460612060753

CLTB	1445.72064343302	1331.18605673705	1231.37475540937	1724.22121078776
	1562.9779683714	660.096727566678	821.862271569917	502.731019454502
	484.568420044471	3073.40543048878	825.034504959272	1257.00798908017
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	228.675099004411	337.119524477446	396.212732639272	318.06081614151
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CLTCL1	146.800324349321	148.49560238679	144.839170491334	
	151.267897610115	155.397301207102	164.057147728625	166.085469368498
	132.890396520305	152.826356673175	162.841318222066	135.175806654971
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CLU	134.031960707639	133.401620574886	135.033601686007	129.34905533265
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CLUAP1	5558.51089816921	5300.67886821231	6919.4226838505	
	5912.48904507462	4690.93553472125	6114.33638002734	4882.16892310839
	4749.69040198959	5195.2087608308	4690.93553472125	3093.38255333143
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	130.016401638936	131.961236721149	130.052593375075	135.348086420636
	130.185134787768	136.398521726896	140.682757521394	135.940629737073
CLVS2	150.870830294349	169.000137586852	137.835936352525	157.797222258336
	141.131578372349	153.566080603874	150.754492902512	150.531753446398
	160.19942770666	135.915252483475	134.592495777159	157.878110410517
CLYBL	297.862653495715	341.973002478932	325.96632528242	443.623904480087
	166.640325848102	152.017655364287	167.330860677012	192.59376129133
	163.41031443893	320.097510212422	190.138730960643	212.987082617173
CMA1	130.173734963758	142.848438163322	165.314290446922	137.398748156909
	142.478528530514	137.894482933806	132.637443692683	135.938590242744
	143.572668991313	141.373059612034	129.358112503486	138.514356748249
CMAH	188.952730860801	164.066839397676	192.059255232313	165.992542962911
	139.949563856936	160.543465620248	145.351662473858	172.355215322173
	177.065616871886	154.049004176595	142.187694439611	152.898148619937
CMAS	553.198321853202	542.009873308344	624.264994653057	508.735412486964
	647.955521647635	737.843412273272	929.69741581954	1037.46485756166
	818.225731093346	1125.28599595312	687.987647193563	1109.08288440559
CMBL	655.431236290512	487.696347726467	617.474181543858	585.371892598422
	211.891710626953	239.33642662112	273.303240462047	284.574888587832
	266.652805624826	243.979769719186	357.514919818489	285.659010982301
CMC1	208.476367897256	205.830321788612	236.508498739509	221.635333304767
	509.618968665191	367.289651112346	330.281193038198	323.244664586314
	552.662610888399	465.809961695043	248.993716339029	316.281469585496
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	607.979208454176	466.777454704543	618.140160251927	588.076436392983
	827.157920721418	1312.44215746801	759.802694618208	685.620637807134
CMKLR1	138.909419415137	127.392877191785	112.219585614955	
	121.865696440776	124.222529964098	114.768639931659	114.913534674899
	117.445284668654	136.659134200122	118.60878652724	133.778595695007
	112.054379249781			
CMPK1	1110.43791444289	922.877217016704	1253.05700051015	649.906677394861
	740.196934996626	937.375361806971	1032.11574332305	1038.34611017219
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CMPK2	148.396148091332	124.359615295938	145.217261514886	156.402578892869
	152.717642489582	143.1288704752	176.236140830355	154.843607752473
	159.570288565855	134.73970457131	133.236084190243	146.462544135666

CMTM1	128.570067783535	134.30624644595	137.280933631075	139.568610307888
	136.152827218905	145.578721432709	135.504526903482	133.365793958118
	142.191569406599	139.449895159273	139.39442529119	135.56878810365
CMTM2	124.436549041911	130.890314257211	119.739204799544	128.303046695142
	121.099290122973	149.007288765628	126.068445507098	152.863035012564
	133.223310036542	150.52625734893	120.333487171575	130.639974588163
CMTM3	345.565843875296	335.142319387164	211.357321758564	287.924891622962
	195.929328710358	225.142823691625	266.681711962236	233.71520737817
	256.687384001447	254.133112176024	416.546844844021	284.891415492568
CMTM4	184.260835471542	181.79418355897	181.081050726043	188.910933952136
	270.520229426015	221.45275440794	242.096692715029	300.602422224047
	361.26540006942	244.054469051058	272.193578770314	230.015981563049
CMTM5	158.390337945372	148.665627690915	181.976252906929	167.620915011868
	134.719531559829	133.777238071968	150.893280574091	158.23562423217
	158.039920243116	135.261561433405	168.477388641982	143.019052979243
CMTM6	455.313553278155	489.528040775004	415.113340335205	321.049000153127
	664.809419789814	1144.07896461196	879.809795251142	950.818917078515
	1316.31088187364	741.689442253375	1424.79466712859	858.742139354587
CMTM7	312.406286993239	334.916875239616	268.406778092906	261.96528977292
	1992.71224011906	550.566402986082	1411.2586496281	760.572409199179
	1597.53010317504	370.945254716657	896.185223980593	625.932910814208
CMTM8	188.605328108654	216.427103365727	141.753560518393	165.530397739051
	992.744093752678	610.915977337787	715.93836911426	293.925995360234
	1537.71464618832	345.649572073924	194.961531388323	302.381946749711
CMYA3	109.740801301993	124.02280670421	144.217621961908	117.30724482798
	126.912226185444	132.647152200128	133.146347243168	131.473001455317
	126.561067704708	141.147683040881	132.570225520163	130.452929012459
CMYA5	230.975434289172	205.560952959537	215.40037757604	183.314276033531
	183.795632040455	161.525131363333	533.893360199271	165.149464497921
	366.473258467746	121.799209715087	195.776369840059	164.458565398812
CNBD1	138.017249996128	129.564482772168	135.959893035019	135.452340998039
	139.109712542702	133.744560712587	142.05571112803	130.091692689423
	132.637443692683	131.849442776642	134.149446827982	133.195030751476
CNBP	1129.76078220457	932.862030475849	1713.93035637146	685.848203651889
	574.035124314622	882.037055216609	1206.59866455529	930.704688414069
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CNDP1	128.375390373307	121.441901286752	115.137475087954	124.203250865069
	134.457932303561	127.424848301217	108.118551275778	120.971313945446
	126.782805974059	127.3079781139	139.47828235176	118.572988141773
CNDP2	1153.5175534971	1623.92991386706	1239.13016938378	1106.75785702993
	3149.26998719015	2979.27692778783	4166.43837922103	6522.27232911897
	8163.29201165065	4404.79209330918	10862.3952192141	3103.4192907748
CNFN	165.493629431627	197.762169504041	148.421611987655	156.674411447713
	818.225731093346	305.16668987495	249.064573038094	229.483578414375
	458.953009417683	4276.70912292877	198.456392063513	197.526492324088
CNGA1	114.334059060506	132.873213182775	119.9414421871	110.1278204598
	139.125340284813	121.278346729876	213.791379190359	387.908774438461
	236.592839463278	144.896960245309	212.591357254196	206.571433405844
CNGA2	126.089217853289	126.670227417269	119.308345676905	118.488997046932
	125.470172259885	128.436499050769	129.213523302268	126.279119798177
	126.895669261503	122.751674866182	150.778292242313	120.748910864064
CNGA3	158.10628865476	151.342902631318	159.029406517237	159.446705611995
	150.939877261936	157.172970235254	149.207481665265	154.552605305297
	146.877475544399	162.683665945044	159.082447644277	157.684694038023

CNGA4	141.248526020456	140.655002540298	147.036768856136	152.134895623504
	135.665577776938	152.752870674108	139.607944722497	142.143709425075
	147.882530392424	136.013989349192	131.261903118177	145.810213943313
CNGB1	135.391788614828	143.519786615253	130.75707278606	140.009593108693
	132.175368142549	139.697477263244	146.298733090986	139.497253870412
	142.703116372162	135.375268329248	154.818414925242	135.634385846692
CNGB3	132.221351364892	136.859366444351	115.992487254175	143.277771142501
	141.649911527714	126.501648842366	133.396403868645	148.219406063533
	127.159947766922	150.911524755251	129.547309629132	122.673596593654
CNIH	511.996883507889	442.766704003254	949.260897408911	327.251620296271
	568.040362658955	1097.60805874165	942.900963522948	631.106334754678
	706.759905439674	1144.92109214621	731.284098301795	872.512754090023
CNIH2	138.93292293598	141.150016212967	140.132816040735	141.870640394206
	133.773427881651	144.908551199481	136.607783800741	141.862767428244
	142.367003292264	145.150191397375	141.222884136243	144.853868519575
CNIH3	153.653453808799	147.395335979341	148.353927712013	169.583355171423
	178.847858667374	132.005753222789	128.168460083895	139.503902205317
	141.793216038882	144.619374612317	147.659772694732	142.305484770249
CNIH4	1204.7397215229	978.389902096994	1037.97124386242	765.532997390972
	3122.71790981947	2410.32095582515	2325.02143920169	1389.93393245455
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CNKSR1	117.367470441908	122.821563586744	126.185560760543	
	122.773736159743	171.39347085745	155.004104153679	165.085010975035
	191.310372695208	159.349719495214	166.714793209109	192.96586114861
	153.579955370444			
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	161.331326682743	144.019824700027	147.15999706579	162.841318222066
	156.68541512214	158.665476708054	134.329334422886	157.130045415943
	140.650987394155			
CNKSR3	1247.02514044778	521.714719320355	593.462634352052	
	465.029298672645	145.875240619257	243.772412032046	342.878522959461
	275.929414239664	171.924364939807	299.513950278952	261.469732730752
	238.548578086943			
CNN1	15667.6576521981	14983.8256502293	10862.3952192141	24377.1316448061
	119.412461116903	131.02157879562	103.550817366724	120.501697624977
	159.620467672898	133.226542641174	118.850495684547	119.573635447638
CNN2	463.880793292701	512.467731561858	536.609777988581	581.37957221282
	934.546444634669	787.017214032692	771.294254795752	446.819873986024
	495.655170027296	1033.03719406038	537.216291942143	599.735180191091
CNN3	4913.55892033682	3822.05744774919	2736.98692493933	3029.07443443457
	1548.09554827056	1632.07671492041	891.194779815063	2578.85391480563
	1183.82018168635	1370.61156801632	1181.1611856364	775.382397816601
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	274.316982298975	183.613051401168	253.463871742303	180.437648146588
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COL4A3 135.159590925066 128.451788292588 134.35958389775
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CORO7	238.270501389189	239.621756857095	207.920724788669	281.881563164961
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COX19 825.781627776577 741.255013151687 613.631311147328 792.101559967381
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COX6A1 1293.70593826709 1527.87148052149 1442.94175124818
1532.47920327769 4404.79209330918 2527.99279063127 2403.42261883515
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COX6BP1 173.432960318793 161.585555680663 162.216377983292
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177.306794546105 153.092864798642 137.024230648861 140.702685210277
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COX6C	6877.52553567598	7815.98936145067	8581.41617729997	8416.19700892758
	7902.9189607838	7617.316805798	6368.23123771343	9759.87403504619
	11190.1778174002	6214.77579017084	6296.24208225227	8261.82420896892
COX7A1	3989.14883668905	3403.37530051435	4251.82554412383	
	3938.94050658589	190.348359536057	335.790909130243	175.165305179665
	252.249994170536	261.426617866925	289.474517971859	189.192494970145
	183.863365305103			
COX7A2	5165.90865799172	4901.41175228982	5532.93454600454	
	4511.9116742833	10417.5218406801	9970.08052783908	8030.19731415448
	8666.41250683965	9560.32907282993	7992.84111657183	8982.75408120297
	10765.0336035748			
COX7A2L	1461.64901688125	1224.49891389348	1671.82101590797	
	990.55038742453	1667.86825735893	2016.52142068599	2388.03256067711
	1908.81864728547	1475.41920838384	1364.83036157729	2046.64499507352
	1427.70292953827			
COX7B	1742.84803427086	1939.1525084845	2000.47497636965	1854.11328962023
	2841.96460830166	3298.73393277409	2076.51786803222	1774.22769195939
	2014.48411650613	2525.90466050731	3122.71790981947	2583.46653460894
COX7B2	134.553754121862	135.210887148305	135.798387504219	
	122.063996556575	136.506347083926	189.082778234831	124.461997520222
	267.589020526148	448.106077184152	125.2051300372	135.031430487047
	142.677386111317			
COX7C	9323.53099359448	9044.54885739666	11709.9785619141	8401.40370474392
	9820.93899217345	9099.13956219312	11071.0448447818	9908.59593023839
	9272.37780151073	10397.3656932566	12457.6956682374	12654.3779830648
COX8A	3810.98043907046	4214.83058308503	4183.06379632713	4491.96934862425
	14499.7866852901	9403.76665152182	6894.63087357693	6652.21610967461
	5532.93454600454	6652.21610967461	4000.45196171119	9219.38828280399
COX8C	123.296382913131	132.450954427876	116.428373788459	117.820996523337
	125.513881890201	113.292688210897	126.435928518593	118.426600479326
	119.281300456243	120.085340927108	123.860747215706	127.407418037777
CP	119.150626141327	126.516782182087	122.167669805597	109.342230674869
	108.118551275778	112.509731206295	143.318291243905	108.751654061536
	115.524441144063	118.076139318165	143.999000471746	117.710502693638
CP110	606.851072672402	580.474775712828	542.009873308344	521.215655189324
	435.603911474926	1344.1288416533	589.953707188378	590.646248924596
	477.489368828457	390.194764817385	373.893428804488	869.937761943249
CPA1	136.783974483005	126.470239371932	125.628281846465	122.941711366641
	128.202619705343	130.93033679281	135.531326977319	115.789536577324
	119.176139463015	118.802030418792	132.043196381009	124.003914369077
CPA2	131.806645427543	119.480037559953	140.983230581181	133.252140649104
	144.940119680152	131.421663453164	126.834926242799	124.661088039427
	135.803599969904	146.574656147816	117.461198576063	143.188958538221
CPA3	1083.26599217847	515.597523880328	712.699853328955	387.305348482856
	186.185055364718	658.47864958685	171.221972336784	382.744523022686
	654.108318810728	216.05364037271	174.491551019128	205.495823410422
CPA4	136.398521726896	130.672586991186	154.205877662428	149.193437559422
	150.610633329908	147.253919952267	144.423509403938	166.143084832472
	140.319851351329	228.852495818211	157.57914268719	146.225422797118
CPA5	134.533551900843	149.125425566378	144.619374612317	143.917152377544
	151.891318080151	149.977924522553	134.52098220054	129.111259771449
	131.662585510218	151.461857714097	138.192550945411	140.831508792119

CPA6	137.675597243706	136.44218532882	135.725202462502	149.615585907229
	147.79501373062	136.295523520203	149.068713925139	121.322817570375
	145.938780249776	137.725329029129	128.678484452077	144.333945716394
CPAMD8	186.999459152483	184.844915350411	180.837420957945	
	187.824032557194	176.940723174814	186.794165469219	176.284693922048
	173.919504730673	152.954944775793	159.354364289526	173.024402954772
	197.667299074218			
CPB1	162.127697884504	137.561067667054	144.165277164871	154.264142444882
	140.682757521394	146.266350809492	161.348562186667	140.160349667726
	132.918979842076	141.123272165499	149.867541008113	149.749660071593
CPB2	121.130837254861	138.440663763957	129.449242018727	137.462720784077
	143.481112776388	134.47218436552	143.635367691412	140.738977175997
	133.552141086987	132.767474034305	127.646032547296	131.958760372325
CPD	424.285848583977	462.144334719146	361.160881334174	383.407365952689
	1479.69309189156	868.066644155313	1702.68441407727	1467.50846948144
	892.868661511516	543.810043433181	652.826023701545	522.050619657197
CPE	603.061485415867	718.670564185576	297.466255000163	474.629173435475
	207.384408045502	413.687046868111	243.080229016932	260.715580924916
	257.775569674531	541.258721278882	166.311421907434	242.141362101262
CPEB1	210.900056977861	203.17525411575	261.721726664029	212.607094117882
	124.597605631582	134.641840638331	137.418345713224	135.10155936286
	135.296271683847	131.099004325598	119.031594964239	126.65748100631
CPEB2	278.168897504985	219.422260093722	225.4575611466	220.010399552402
	149.734395134321	185.727947276958	156.756159786366	173.761036260869
	150.648444878067	273.959220003188	162.466301774088	140.717348834454
CPEB3	360.475989559226	376.443086293235	377.89330639683	424.201556056759
	154.395261192114	158.127523362251	183.853381322135	160.315029612814
	161.825134481279	157.575902297677	183.719279448844	164.673579538023
CPEB4	255.992494620859	215.673878830563	265.536429548886	207.150354734189
	148.356726939122	189.2642795052	167.532512839891	173.552535486766
	159.301581158613	233.997642139328	163.951459935477	225.803528238368
CPLX1	176.410016510249	190.975263192006	146.31980311926	157.81327663167
	254.936706344174	152.746799687103	133.810472192646	159.752644678596
	160.395053149199	121.646971898731	137.974323288786	195.513703253634
CPLX2	143.839170216353	137.93067182632	155.46017572591	140.120051507626
	149.300089212177	164.442400539653	149.303427221111	148.665627690915
	150.265385257579	151.540744107423	145.259981479761	154.737117718424
CPLX3	124.809739073169	117.728410015076	116.310166003024	116.155949676272
	113.740942665269	122.365693072105	125.048770476506	114.774530966446
	107.283814651497	112.268518171041	122.885879294532	113.440171712791
CPLX4	122.554760526767	136.718598487513	136.285410546751	143.840979923821
	147.450681897766	133.056659202188	129.858162624661	122.746185691827
	144.170287726456	132.361106053517	133.736252068443	139.318078285343
CPM	149.457761307441	141.898948675823	142.986412837634	143.421288665418
	173.109461200603	152.158269344693	155.249688219254	150.645487532549
	156.077604146143	157.572446865749	160.511688319771	150.269618125943
CPN1	143.185372109165	136.468434653208	141.76964678852	146.619846538124
	162.212442593001	153.315309202016	148.564655847496	152.44293820056
	145.768857553634	159.856190281237	135.391788614828	147.668990552874
CPN2	163.77183097588	176.783978625103	155.830196650117	161.748547772524
	163.67719444924	179.996590340102	173.611295051326	159.097020087275
	161.148734808267	190.993590849624	171.869472272081	167.662761175661

CPNE1	365.286234166621	365.140886302762	336.786227017391	471.069295685718
	670.571106793204	738.579262579782	783.991448771818	408.10780961711
	299.568830444875	346.411586524655	331.684298221133	449.408793796673
CPNE2	147.066582834257	144.863617174741	155.801832826848	152.842777535666
	163.336324451735	135.695576019185	125.882246459692	153.869144282319
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	1005.62130301653	3164.55070502403	2135.04382065446	2285.86163259073
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	173.599961799334	118.918962530408	126.025161261042	119.658703392877
	123.566522075398	113.051381310122	134.166297738657	110.636713168363
CPNE5	124.342911165267	119.052729327147	115.468921844902	117.923459503989
	111.922007318017	122.572634128442	121.027465953657	121.45175516842
	121.06219555903	119.806933383138	121.197702744078	119.150626141327
CPNE6	134.983884722607	150.494260282384	131.643633737316	163.910041674646
	126.017158064032	116.501174707117	123.711828013052	115.157321350379
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CPNE7	146.370084152094	141.066106476109	140.460927375243	141.278654291193
	140.624437508178	138.407207709066	144.958176005711	136.438788088263
	143.643259003393	141.466287523861	137.194467539969	139.127442770828
CPNE8	351.585604465402	320.154891655397	259.426050921239	259.229153662504
	229.907632927358	200.08007665693	150.606329295069	158.665476708054
	215.365809536522	696.475639532595	156.866867371872	148.49288177738
CPNE9	121.825639714374	118.025603140924	113.799997627317	112.664210248256
	114.607138204495	109.886197655915	109.003365273337	120.606354515072
	118.060781901686	115.321501844663	110.465934808915	112.993452506946
CPO	151.625248091441	122.921245774755	164.164463389212	146.488402397597
	135.65700435306	156.740412695351	145.726651022813	138.584190903303
	126.245597154052	142.68640844948	106.701716475947	139.432567336814
CPOX	306.550948766362	354.705553237406	335.301103690781	367.327273578513
	380.754569467715	312.177191402945	384.216141843863	336.639473916174
	295.367125961621	576.636077770998	444.945078908489	332.666916002481
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	159.806221777332	162.347140552869	178.790758444269	145.732814287289
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	128.331867822629	142.609678462615	132.061436165754	126.049144107897
	172.370108210895	395.261210769232	138.62308708151	137.000868503792
CPSF1	472.514017604645	408.201232787978	550.434931878586	561.379619105609
	507.342877360289	420.017044147123	443.444024128516	507.827473844576
	702.779943547386	392.582612044755	388.416668785633	383.10686624119
CPSF2	227.884445686928	244.219585315024	269.927694984528	265.61506544085
	219.441959146815	193.412827246366	223.128108720503	239.050379187643
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CPSF3	642.057106241761	707.715412321304	623.050854309724	788.693133735893
	2808.78353621111	1583.79384467611	903.144845227364	1398.60850048351
	858.742139354587	751.077307018319	1465.2419150392	897.958748317315
CPSF3L	357.514919818489	355.519647649551	383.939800422489	
	449.408793796673	455.392133846517	328.826483579278	313.967636827811
	268.832884350157	302.532985701607	271.770138565186	354.705553237406
	260.314440448486			

CPSF4	520.218545108099	565.843200661721	473.60579090007	655.431236290512
	1217.29687282094	685.354305381323	746.523071806534	874.348941257592
	644.868034665476	522.050619657197	501.005898087825	907.610179738644
CPSF4L	149.013011292165	139.909719416938	134.81595608984	
	182.861900982333	138.487657776553	152.258389962	162.026757124868
	161.475694690038	149.758215028408	152.356731704094	152.673212084312
	146.533374238616			
CPSF6	132.381685434931	137.586032396204	130.049854901235	127.361974492821
	142.922549076496	188.242091666446	146.235832275574	159.491388998564
	145.063062479224	129.625046507677	146.044279076949	139.369815367465
CPT1A	160.11539252042	164.708712337156	169.725534829981	171.573342518254
	146.129805607031	161.027590226123	153.498332327444	144.738871562895
	149.576563410584	148.160350542849	154.96616957771	157.58224826673
CPT1B	163.175801793143	157.570298634172	132.611864316181	134.364838071696
	153.681775929182	133.552141086987	159.539320132392	184.682478530334
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CPT1C	173.773876769683	195.740661051834	136.755975832051	168.838723365068
	165.942761337382	128.879953205511	126.617737577634	140.288612271406
	153.658747612827	123.434963905308	128.445065383646	129.902965506953
CPT2	320.774102343889	339.252515920242	407.442337662943	367.825328832492
	660.535644289024	705.987531074737	714.274201838067	964.093668483033
	525.6579615077	583.314509855875	548.686094748117	824.070046083713
CPVL	583.314509855875	396.459213999636	540.078145038497	260.85776723575
	171.414869677333	305.615423200097	243.589099648895	378.728516779744
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CPXCR1	148.94765984808	148.424970450231	148.189707227474	
	139.736465430177	149.76931674417	163.858222964048	148.109847175216
	146.164093136588	138.098165515898	153.507553306723	142.101865506094
	158.503284955019			
CPXM1	196.226732738526	215.532132200821	179.54034642468	256.795346052751
	208.611557959861	167.157420848604	228.766847429517	208.793650722271
	221.471811658459	289.517820913799	265.219444616245	303.795701960506
CPXM2	1825.10168716051	1825.10168716051	2816.29814823646	2741.71904421456
	154.710000519109	149.941056059544	153.879427186342	196.096936985479
	255.435582426271	187.425086057782	166.17959304455	133.599098708818
CPZ	301.591430919567	203.317264638828	204.019377262081	184.937088280378
	471.946284490029	146.374656140032	247.145700155364	150.899664887945
	153.626180103404	172.442311733494	167.226663395855	134.664652044646
CR1	137.476047500852	130.803561448083	140.197487078987	137.353149614081
	136.526706711584	135.735535533738	132.958521136	138.42029331811
	131.406366653787	131.498890334548	131.330974614437	135.814893730549
CR1L	159.452527363763	144.767233774942	167.629008083436	163.108825245937
	170.818182800759	153.044682186978	163.668476670167	158.509885816997
	158.10628865476	149.432744784716	143.484004107893	160.395053149199
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CST6	144.964084792568	128.115993005977	138.121905080822	131.143808097612
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	228.879434668972	177.103802332144	172.364618542922	171.671895682052
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CTXN1	1578.87371296418	1473.70433292382	1484.32547474275	2267.0818302379
	908.352265585374	504.275299381356	221.869191666931	292.468585109951
	407.957436380989	198.311821616128	255.305647212135	438.03648998391

CTXN2	137.085712588455	137.071402810983	139.515794685984	149.595375008252
	146.271180025157	125.634045420702	153.474566767304	150.964506212368
	147.351826045609	140.464476678448	139.372441366224	141.29868389128
CTXN3	122.022611139895	131.657454325126	124.66386961898	116.678969343492
	121.197702744078	124.297848065172	127.476819912992	120.547683754604
	123.434963905308	122.268560536152	117.335748689217	115.299986138153
CUBN	148.054367166566	139.310309748986	157.57914268719	141.289009185018
	139.748733350375	131.933026690056	144.224287382131	143.810050834214
	144.754401731628	158.7912155022	140.706490845379	138.546549217819
CUEDC1	1887.82245931444	2421.87041217217	1901.97972168836	
	3222.23985545506	988.788192022196	396.861835715943	614.775559038663
	570.130804179186	731.848844821402	357.835334661098	634.046843336128
	457.292146759215			
CUEDC2	646.117381960716	690.010326122574	836.235700891687	
	904.733257358133	1007.41624313399	553.198321853202	585.552940765069
	413.330906392915	591.763423878737	365.650071660806	499.436680354749
	544.852019338212			
CUGBP1	209.623583937962	181.550597645633	195.724873069362	
	188.40383184521	204.283030911897	173.147311624838	198.437113196596
	190.444387031552	177.103802332144	206.548878646452	202.162432624505
	198.113398073968			
CUGBP2	207.651142295123	192.932285494022	269.379272725008	
	189.662974464847	129.34905533265	128.045931477827	132.928639483854
	151.650777127117	158.919340819357	130.212422459695	136.421163870578
	126.482660154852			
CUL1	819.488546995594	683.365770196967	834.187014201026	803.60413590137
	489.75389978732	617.185364180303	583.938727139698	539.125423322738
	616.523853569261	607.805002786409	350.926679856514	741.255013151687
CUL2	631.819659701092	558.934004505074	697.299604049748	543.810043433181
	567.143102792772	693.180345649331	495.769802520637	493.071213662125
	524.725307261999	458.047799748696	648.38049615541	541.642309122976
CUL3	148.927040248436	163.885645883066	158.536178747273	155.878493935166
	135.033601686007	149.805955402639	124.985249190127	151.567693140302
	152.600339354701	122.007909794484	136.888915439473	134.675247731364
CUL4A	547.817028243811	481.86545778383	644.449861831749	478.606567465979
	349.816819166182	495.241179224412	358.897128592042	396.708183244581
	490.153210371094	616.014975366684	511.25179427158	677.265576269103
CUL4B	249.400820221233	264.805236346895	286.901115411673	244.990374822652
	195.981555981238	267.800523478098	210.590774758661	176.008711524598
	185.396765725228	189.092674335503	241.675251479835	204.509884908059
CUL5	679.557656724243	682.315322994357	758.517101659762	545.200687301057
	496.991561192565	634.906566690042	708.268962600305	754.406896156858
	648.161646065464	489.909407178594	641.645855499704	915.579581760396
CUL7	163.504122327429	156.540165645256	144.016137459279	157.77398996415
	237.146972312448	174.587558727209	234.301520483864	143.837402372008
	181.003812824014	139.834535091869	212.223906015932	176.547853494057
CUL9	234.626574390973	285.768837438859	269.141120401835	312.645778869254
	240.12078342024	196.519125510368	243.979769719186	224.335742510577
	230.975434289172	258.807028561407	256.495848662843	247.08460296705
CUTA	1033.48252432603	1002.44383771056	1102.38234645327	971.99484515987
	2819.92361643968	1601.19401366685	1271.46608195833	877.255923473532
	1114.10687039922	769.34961339184	1064.12835214671	1415.67109281133

CUTC	568.935113269368	491.709723745226	523.435696794756	352.741885295157
	166.81024151246	227.614623963331	267.028096234702	203.125568980238
	235.680462167404	257.880331012233	250.602978521808	230.672056810885
CUTL1	781.208872924532	923.130629121442	793.501244347257	955.604404066769
	466.691191261997	378.088675670786	543.001249586573	441.785666261936
	388.096183735126	624.978351618077	303.986544460218	588.863382995875
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	161.788118050564	142.264536484668	152.743680985848	136.256456726841
	138.618761382177	151.340728221261	156.037150880384	155.488346781292
CUX2	162.624786423084	145.572363722788	142.469353808346	131.749403497912
	129.668506092785	141.374831983971	122.550707067805	136.321816321193
	142.757327296852	126.734835642553	123.586359806158	138.158400190671
CUZD1	147.856285290748	129.073750290924	143.397823965608	151.783090997855
	151.819220292189	140.051904905695	159.115391667901	154.533544838819
	159.43317827517	138.098165515898	147.572660963285	162.9279134169
CWC15	648.161646065464	662.373189001788	895.463355957918	692.945420109927
	489.260272645085	743.023225859813	927.137881369911	838.63350090385
	790.561585641193	1208.9240215109	806.591035100794	956.76879975749
CWC22	203.19299227665	187.784865705837	192.418895349837	156.698856643638
	146.632312874102	170.01557699913	152.748807709142	175.908645445479
	158.541906931082	176.704617691988	175.704031930103	158.604431001643
CWF19L1	719.766799746895	850.882404546093	748.015452242839	
	806.290662664708	836.613819700658	733.86133557115	807.604205890244
	524.392279804734	894.100792722707	699.984140389009	693.781708146282
	668.853969513382			
CWF19L2	390.809169896009	387.711471687237	461.088572554864	
	344.070947256963	257.989863290786	228.713818522476	232.778488697337
	219.753039699136	212.171281020103	236.164692035094	302.532985701607
	224.361277033882			
CX3CL1	1126.46241487062	1518.13775377335	1488.37146754184	
	2410.32095582515	225.095016600703	250.30085097088	185.886737029845
	200.179796117115	464.323065038265	210.960900130785	232.519482087835
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CX3CR1	142.41737138634	148.823805841381	130.201635099678	
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	154.710000519109	150.584633044901	137.701271351806	163.570018900148
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CXADR	214.499670852615	493.347308943133	288.728608411903	131.381189141974
	1584.81089248914	3829.87905458534	2662.43181510326	2355.29862638453
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	126.690066353698	146.590495255969	126.468167800414	132.811368246405
	138.924820359912	129.828896822571	121.347339077474	123.720229113779
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	151.431513447721	155.40832015652	128.597272557033	151.893573927407
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CXCL1	139.959629641771	177.549330396268	126.259029676691	153.165872773973
	181.202396068658	151.024201732633	244.849563563729	293.692083555844
	622.692834629555	827.863789600981	200.944865673409	221.74200490054
CXCL10	169.067064352955	217.670330817769	142.617474507282	
	163.099009810658	236.401834189942	256.538195034956	329.660368915848

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CXCL13 142.080099281203 135.87026484074 142.777235931165
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CXCL14 517.020259129974 391.569187190375 416.075109522039
548.686094748117 217.013533525724 518.478990211753 392.909481887174
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CXCL16 255.527764534636 264.273245283343 163.607125532236
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CXorf38 198.456392063513 199.637257550762 195.69447353356
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109.74983281634 111.928204694188 121.141432480683 125.787353491408
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106.147993332294
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	286.194197552489	180.132104305583	210.692705153337	162.056622258216
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	237.754067231793	801.702878226247	595.270107963842	839.324324662619
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DBX1	119.168045349254	118.527464364564	118.486195373059	118.161192318422
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DBX2	139.021552573529	133.070896773384	137.955289723046	138.42029331811
	122.736882859231	134.703474191011	127.070677267233	125.195549796301
	130.410584413031	125.683334853039	128.967855397644	118.32560379073
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	133.816601264067	172.214433016685	153.408890091225	153.187148832063
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DCAF10	353.774297577869	313.18989508207	337.585502787016	
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	193.98814423456	269.892633574243	267.372241661758	228.560346647306
	184.482849019679			
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	112.776764215618	120.984641102879	118.298444816712	115.457121859064
	115.507474401239	126.370252616961	119.873844587252	142.469353808346
	117.445284668654			
DCAF15	192.418895349837	195.513703253634	194.312315077985	
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	216.277178481058	186.679199600379	208.793650722271	179.177884962513
	215.335795337978			
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	162.254062646631	164.661445411833	207.023221559302	197.827534617557
	178.3652866131	243.732074437237	199.837938317725	183.385868234361
	195.218005582618			
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	124.3501719829			
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	682.538709448692	1085.92360670051	1179.42590997099	1191.88706134921
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	123.538037290702	114.14858855653	111.196610704726	110.355493122568
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	1565.64079526732	825.781627776577	802.017244099902	1139.14730341921
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	137.85150144918	127.419227292862	127.83967243279	123.554769032715
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	1169.43742964112	750.10819423982	1032.4540300024	1278.30505902957
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DDA1	786.62709337246	896.185223980593	721.603421985572	1114.85422895959
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DDB2	213.240181616274	193.522811257085	179.100368312505	175.647878042257
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	186.886677174192	146.04584032214	253.30325545013	202.421990203844
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	109.770126492743	103.09089100768	106.36673326724	107.344825308293
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DDI2	127.354826381656	132.70888569469	128.367370419533	128.812729239283
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DDIT3	466.141717595301	372.374101464689	399.762451559805	294.535979194434
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	1321.17236442448	581.54874141672	2947.51998516453	1951.69651954627
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DDIT4L	245.317436234586	320.525885538523	289.517820913799	
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	252.514569129392	178.551434222154	173.726420791056	181.508873226705
	166.315369318355			
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	141.500790455788	136.978738825445	140.145470073979	147.925744210234
DDO	151.094682146074	157.481645415121	158.053654524927	158.863516051439
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	160.6823824476	145.517559593811	132.057808599068	154.918405633244
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	2962.11407134162	1912.2369374258	2615.07927836881	3618.9385126441
DDR1	187.871017629994	236.219981978324	220.258804437828	206.413554839865
	790.561585641193	435.48544637769	747.322544683874	338.260976633501
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DDR2	696.131296166255	568.310800941091	400.060972573122	528.650794915616
	142.508525378171	154.183537565624	145.628239642187	147.485960802692
	161.788118050564	162.595632367022	149.25705328406	144.964084792568
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	317.719381113816	1528.49457104932	476.782624160552	623.888568444132
	612.374364731095	542.544172683021	647.439372562271	776.98412594767
	603.764427348016			
DDT	1980.4589291261	2271.82656399253	2681.48138915107	2372.26073354008
	5361.3600315322	4592.14655702906	3403.37530051435	3592.7878705048
	2542.44286642873	3570.21370790206	3700.75770419386	3765.25491426198
DDTL	148.466658640201	161.496700767073	142.199182392836	160.773510498005
	160.042251279235	146.550421651378	152.064982697394	161.965270932582
	124.533543270311	148.868265867275	168.52952604693	164.032302455558
DDX1	1785.92695250894	1783.8031212092	2403.42261883515	1750.21700780511
	2296.30423509176	2618.64973582507	1392.89422203207	1929.52146517699
	1611.58245311122	2127.22258112242	1349.84215478798	1806.24732793591
DDX10	444.945078908489	447.059120541009	459.652708187549	439.928008927647
	449.859227376918	345.209128382239	335.059844742031	488.57622466019
	403.984761333129	281.49247863022	405.130899553871	442.493108530222

DDX11	137.212568398657	140.010730572075	145.651301499721	136.459509901229
	185.374745525698	142.866874321248	148.391885541349	168.958694643382
	160.742365719929	150.639235242268	157.81831741292	162.629257046871
DDX12	147.607202745865	145.128919984856	144.059368898969	156.146154578237
	152.173055053184	158.23884088767	148.468389477892	158.738932073809
	151.316421810192	147.385714746214	144.599578905334	149.292552957665
DDX17	1221.58522138654	1178.83933381069	945.403379196643	1151.89087953837
	536.9324595176	759.058176862524	833.430847243676	541.896444696137
	680.94167651697	684.180060287047	1076.62597781124	817.036222521723
DDX18	990.814111681408	1006.69598892631	1178.83933381069	905.751410113646
	560.362502519639	1646.76016031831	882.037055216609	1104.61581891596
	922.50743596248	1170.07851727046	822.129234065933	1475.41920838384
DDX19-DDX19L	140.35175858015	163.661196423902	190.947996918605	
	165.283700641161	169.101676908756	149.082061203661	163.516075721791
	172.631499322646	174.012972901793	177.500110974116	184.694741621812
	191.543371466252			
DDX19A	514.354512083591	481.933386283351	507.95331185029	
	579.923640505245	263.888891822857	289.368511254335	307.597733293218
	239.503369457867	331.32397534437	311.966971734249	297.022984365795
	305.499194075747			
DDX19B	272.712242893937	277.359422005775	327.566026396726	
	323.391456630794	293.794745907663	296.553550946307	323.841518852386
	337.585502787016	333.868818855397	459.771019162573	338.46332239699
	408.60092780174			
DDX20	150.948076715456	140.595496714752	132.751406897891	146.070871543153
	146.451918215469	133.99226161886	130.786835186349	135.057847490193
	137.805895248174	126.290840923683	183.863365305103	144.461999591223
DDX21	327.324711245289	259.511314588868	356.770158430601	257.408058436941
	391.400480065	777.901979189395	499.321667633972	594.180861801958
	656.009451448101	599.52440136406	476.782624160552	1001.92763014266
DDX23	462.948429969719	520.120193442648	522.400055538966	471.720496000839
	570.533103778482	495.438672949441	523.591472915151	628.344122779625
	705.529158880221	397.449905380349	542.883453307	553.123179808258
DDX24	1190.62010668045	1176.62418139379	1411.90426595229	1189.11053680293
	501.863855158062	444.479355480138	500.469781477166	552.790706181938
	484.131020584378	564.41151411028	424.751154004399	580.474775712828
DDX25	142.56910547147	135.003236040032	136.507961715591	140.447933562667
	144.333945716394	139.099483279141	147.191114491117	125.962178569021
	131.451173463405	140.675094228846	132.550022967297	137.704257049203
DDX26B	166.411219327671	158.675960205792	152.22701178148	
	176.506227858258	162.140112952434	168.37850726499	204.219197797869
	164.39910609636	152.386986818959	154.159124458167	190.56172211779
	161.817609920327			
DDX27	677.9972761887	712.433345978749	482.857203798212	663.782083028745
	450.566031840493	546.181615768667	741.255013151687	365.046815163035
	480.593729033799	440.319777672273	403.984761333129	492.207833630086
DDX28	223.253794809571	243.772412032046	264.526189799049	264.306927596371
	353.674560414317	299.234482744038	329.406649846151	284.104619768635
	264.383922859446	212.223906015932	365.286234166621	309.36704220687
DDX31	163.146581498065	164.558875058199	166.709393547104	167.817232948801
	195.595275594235	170.111653122193	168.183542846746	168.295044843056
	165.954266127697	176.940723174814	170.892319361167	172.794570587596

DDX39	434.792010353541	479.866450988091	348.413827101046	482.739666411407
	1356.43255022363	1192.47480377375	855.415038498392	1032.4540300024
	803.133619199479	750.10819423982	598.647226284738	874.816697884109
DDX3X	766.176882605175	790.790236361922	790.790236361922	523.717949503639
	573.644925180854	1367.92869625376	839.324324662619	843.545962045705
	741.255013151687	938.918431240228	992.744093752678	793.891277937782
DDX3Y	195.88263399968	182.275998840116	159.563866056798	185.519000961898
	186.939168482155	167.442950045855	233.82434521462	203.265559787292
	168.05687638693	132.86711707789	172.138554350738	222.565515020501
DDX4	137.464914919148	134.442947822188	146.554017952963	135.215356532498
	135.899595115146	130.74794199972	146.999370190363	137.144001915831
	148.179398287068	123.700076467648	142.724123724574	160.364644321965
DDX41	306.946103334814	396.345382600445	284.675990197899	414.797416270335
	419.532420763449	258.695920967489	391.326200093611	317.949646885539
	255.273375146278	694.02978779693	389.588346573823	379.102958448288
DDX42	707.173691257322	740.527607312565	971.170460915918	773.803350315426
	381.57978490093	612.61438059983	623.508710830895	459.771019162573
	614.094097408035	345.686640885419	548.288640768746	887.471553448641
DDX43	174.116797337377	166.754995454382	193.704510912321	201.337186768645
	167.293320986716	147.769702509047	183.226294747874	225.927425596831
	144.924212639731	181.453575300661	122.82388804774	156.402578892869
DDX46	339.252515920242	324.671490117952	359.162549472301	314.095043876244
	167.640645997754	356.530530468568	316.801725268792	293.448046685909
	287.656436278551	274.934292929666	270.490971664802	462.779122987815
DDX47	911.782783698439	803.60413590137	1100.17618574297	710.228463443265
	929.69741581954	1069.93503700632	1320.74943817958	1361.54107116915
	1243.11900823259	846.084919104262	1375.76915021882	1394.31467757456
DDX49	169.764014031526	198.737421468412	215.897620927751	258.759507964221
	386.85874184746	262.196293231028	268.660078500783	213.26158748941
	198.681190016247	191.418673767345	213.674150322581	181.593291870136
DDX5	4892.17875938832	3481.90072759183	3630.80752744347	3042.88425356552
	1897.92061704124	6427.33783376005	3677.23129570773	4425.66777919789
	5396.55955971617	3024.62888503536	3528.62443098065	6548.65498784806
DDX50	753.389428590366	650.911886508922	1003.93455977232	622.348802511009
	296.962992349662	438.870464403215	524.245387973163	365.541609015117
	388.192984832638	483.699436940387	631.819659701092	478.040234382488
DDX51	5233.72882607795	4938.42484385053	5327.13051940508	4759.17973319588
	696.976036382401	5748.57645553386	2511.04500638697	4068.18567686753
	3359.62015747752	2599.421026133	3822.05744774919	2921.59274577877
DDX52	273.959220003188	291.50783830983	231.018059960001	303.858574395969
	283.123157828849	310.174932137546	347.292438587205	619.995008098949
	361.516275756449	326.640168906375	405.409668978569	332.749676505218
DDX53	150.132420238581	154.740395921562	141.436235043864	159.495272062735
	149.432744784716	155.02097482487	146.229239731545	142.536450265886
	154.684874039602	170.807514224412	138.60849268758	150.639235242268
DDX54	141.770977101211	142.910616700526	123.748788684337	147.52403424052
	266.468621734455	207.417884407459	156.47237266917	272.927830312746
	233.786136606682	149.60803906364	191.040134068942	207.368252249039
DDX55	542.009873308344	545.200687301057	807.604205890244	588.458314503034
	473.370240289761	635.536499281829	822.129234065933	846.425467119342
	1000.05896885496	728.176339659082	564.41151411028	977.227184625781
DDX56	463.298781071364	507.56875910742	392.282956362735	579.493790910006
	1003.36623972843	610.070236234299	584.813665097407	601.401329244185
	568.701661112562	599.735180191091	290.389345090634	824.427857809495

DDX58	240.836979012241	176.791758333054	210.590774758661	179.241385747152
	141.609037401299	153.911165277809	199.288100834476	172.992936821292
	176.138621462315	182.130970182242	242.070630946726	168.161117444474
DDX59	214.684538620841	200.558971047462	266.19823384117	211.160781061336
	189.2642795052	212.016247864691	227.884445686928	222.820391338687
	212.669156800241	236.326943078666	220.415211013843	284.748764120614
DDX6	158.244741207036	172.370108210895	155.056545639862	160.598186999524
	186.831266888028	141.37694311902	179.730694272916	151.488973553441
	154.999192460283	142.13191463827	194.112534914308	180.850779069931
DDX60	211.555248754731	187.035957486928	218.031238893075	217.050602253281
	179.996590340102	208.067404132325	259.025042304848	233.536023295039
	305.577166690215	227.64196401771	288.370985514978	211.438615793742
DDX60L	167.260319361746	134.076865693417	146.019622621809	
	129.421772713718	131.899614022767	136.689064885984	204.89842561202
	180.667897257797	186.57665470145	165.500088159872	167.92409473064
	234.063633889254			
DEADC1	136.959011188915	126.045231525329	118.465111174212	
	114.174153178166	119.787925356307	125.732389000341	123.094324479352
	128.72727523654	124.777895136212	120.322292418128	151.148295679242
	121.271403807802			
DEAF1	193.544035570799	177.742616962629	174.498521167568	221.322724563472
	198.15257384667	171.221972336784	162.140112952434	159.784369379077
	166.187099519035	179.54034642468	189.0608798771	156.119899067238
DEC1	146.359038260378	161.17923997423	154.949840064881	144.662545137915
	139.410739260343	158.047112652223	129.452826518288	134.730275384832
	143.976395954528	151.629999903069	133.789738760547	145.409722106953
DECR1	1303.33810980467	1497.32522786098	1306.20183851747	1491.05501052706
	1840.14350831655	2608.95227456417	1689.00127592755	4118.58682247781
	3668.19307488953	2016.52142068599	3575.60827968852	4214.83058308503
DECR2	270.92671642109	291.883157643902	318.778978094743	330.405026390912
	461.722481634933	309.181150342727	315.863232876382	432.515970951769
	283.048002376743	360.39998507367	378.037190077449	445.089930641391
DEDD	291.476113017794	298.347201056937	259.979459472217	310.917191279571
	308.803322140241	310.465070184707	241.890850719625	265.260411490697
	245.675725760577	208.164674386141	320.024259346646	295.571900619972
DEDD2	498.812823949508	611.540759532294	618.437282203498	566.417354841707
	1500.16816750361	727.814681346494	1383.68977267418	1060.24125879951
	1427.27262061653	745.844395215451	1230.63920848575	725.621153262924
DEF6	200.179796117115	186.231346659144	166.20327698517	190.031339775209
	370.390323116113	221.411372022459	427.390091157726	368.825190022937
	379.200576951933	403.582461109859	833.198511430615	317.719381113816
DEF8	400.060972573122	380.562212796792	391.400480065	517.676093149981
	442.493108530222	332.082749517913	379.016207754533	270.520229426015
	345.062426573519	452.517134370928	239.924227955313	361.082957133644
DEFA1	108.079149792796	120.880547922392	108.118551275778	122.317877997527
	115.174678745401	121.334882368464	113.989682635964	111.137519376499
	114.704831217037	120.547683754604	112.635430248416	216.077955163344
DEFA1B	137.971108694323	135.601916560736	136.90636489391	
	143.307838525991	142.783159341229	146.094951139804	149.730467498266
	135.697550878438	141.106863165059	131.260111979219	136.760382409185
	185.639696270808			
DEFA3	106.263441906404	103.09089100768	102.522925993233	106.030441145334
	119.711070285785	101.316813921703	108.226917034591	110.093565974873
	120.565485864499	114.798573331978	130.388530183353	174.471304281502

DEFA4 120.992440100307 129.428950259722 122.396214045451 120.53428198263
124.15094220181 117.716094828779 118.510960607141 131.015519445322
130.143953880391 126.045231525329 146.709967739596 131.269526665478
DEFA5 144.840218312168 135.521802085177 143.473523258521 139.693261291326
128.714459781294 155.187900101727 144.417333931582 124.654146040634
130.124601660028 141.775100066311 145.709172732805 156.423687034312
DEFA6 134.4380641709 133.978783899572 120.325985681299 148.309872393
129.4807689399 149.833346575446 155.05329654089 133.048720362039
127.622397233692 122.517559025268 114.255733119076 131.666853845458
DEFB1 311.10841853984 194.86492119218 185.886737029845 155.756074127526
174.059172465573 458.282682131641 446.698665191047 203.831047867731
183.152005135504 3396.40593844715 346.476121089685 191.651818696629
DEFB103A 142.719216118914 140.435724944447 135.728336465002
131.025725443485 135.346501914337 133.026094667212 129.495680232567
136.2336179571 133.301527400458 1313.89440013246 181.783275804424
133.720904256137
DEFB103B 155.490897312915 137.824985884649 159.110614190088
163.552608805894 140.875923123766 147.225911875196 160.850840925561
139.067516394141 141.999730335668 8445.36695108418 242.410260751835
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DEFB104A 124.899019467557 148.391885541349 158.937341335707
147.362120584524 136.728067043351 122.696382705233 124.375348764151
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141.170937695272
DEFB104B 152.142909854773 146.097201498811 145.314204192565
153.07993334035 146.390223079987 139.242481781927 147.78847662997
141.5739152922 141.906474266389 182.969563278473 140.03202338666
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106.701716475947 113.87024833117 111.608386387842 120.871693555514
105.132185249959
DEFB105B 108.970432124412 126.211525910631 119.845508281414
120.74273444647 120.29173510435 134.341489592504 123.671944323239
113.199690522854 113.492900106468 134.367115858307 107.697601478064
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118.230408871812 115.366496551426 140.127379332918 127.123123583856
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DEFB107B 120.160652344221 131.428466882762 121.991692204056
127.490889148422 142.22515098612 135.666278507269 124.145492642453
121.728711587014 118.974727968283 136.556183079815 113.78323485587
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DEFB108B 126.629012619208 125.334995649504 127.488853386792
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107.07609243233 103.307703547649 118.820154030256 119.107992692097
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128.992837936606 129.305455204291 128.748663215466 112.558241320112
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DERL2 297.419034136005 252.249994170536 265.43897208356 202.129153259445
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DERL3	133.146347243168	159.515698265424	138.156430188312	145.958718601763
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	203.943245360496	214.86995782548	254.9636051363	229.130679600654
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	196.486499238623	187.700723296295	191.310372695208	160.143443392509
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	664.19083888799	382.744523022686	415.388760988459	306.277823025572
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	143.692305478191	134.725434838052	134.628807679002	131.244759170642
	131.635641515901	125.865974180252	147.75625228531	149.619141707962
DGKA	150.653030597808	157.759149893048	146.814457904682	138.624689897665
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	180.304585602206	142.452409969639	190.939726271153	164.822461375001
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DGKK	110.688722702767	108.266328505986	112.332130647215	114.249891266241
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DGKQ	296.290104133844	336.639473916174	203.816305810343	361.516275756449
	678.937151822411	394.73732350607	418.645775576811	685.080426814888
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DGKZ	131.409796639443	133.008120853618	131.442186260672	136.284283129801
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	1244.67453201339	1054.47292895417	1035.98574557331	1093.85316636801
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	405.843083758177	216.559563381808	232.845268785472	249.925640256322
	284.236970342827	240.147082836599	268.328002606268	205.930921729192
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	335.623336587396	147.955701866515	131.676609824921	351.079435946154
	191.38608906576	546.274050902567	143.868962478182	114.585818507336
DHFR	157.615017085961	152.22701178148	194.125840053843	143.271346378958
	155.790759250672	197.049616858296	153.554159360954	166.722369066673
	147.813170436139	155.590197324062	144.096624787142	205.742386129597
DHFRL1	242.096692715029	298.979106293393	277.359422005775	
	280.531844086775	174.812134675989	179.49202902995	182.810581377888
	211.809434609469	270.894153548841	165.041296694491	198.257497903131
	189.250846546817			
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	114.174153178166	133.353762794271	127.068313862984	139.175421159925
	116.769106223472	119.555954372381	122.508761687823	123.865424155099
DHODH	146.557058433232	142.126620107418	168.235729347406	159.926719599391
	158.356964958885	136.092086452096	153.966815534288	152.488480322526
	148.816369706133	151.459397907666	141.657914155491	157.838771553729
DHPS	639.38881853171	613.279465441319	769.586135629964	660.315285709317
	318.778978094743	539.125423322738	525.6579615077	498.965895763801
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DHRS1	633.762608454521	664.025683218037	915.015154168627	780.105135529728
	907.610179738644	523.591472915151	493.071213662125	474.917507160629
	460.514672966125	2758.01526530661	1027.11849332495	876.288248962843
DHRS11	219.441959146815	238.482863150124	247.08460296705	
	247.550312458738	544.956712516196	429.812058546782	287.145105895235
	996.240188311002	423.396271159345	325.642275889649	320.154891655397
	547.681206272188			
DHRS12	174.549929320587	170.590817818414	186.496160803789	
	185.31769184805	161.72730923536	172.827288328708	166.001279428607
	164.82904652634	169.777032044409	193.37618381669	177.752497164503
	193.428733288774			
DHRS13	157.225479764928	183.168629351124	154.515091049526	
	156.392603045231	1036.40082234884	279.790257881254	566.228690652783
	406.816482069141	448.371946119074	154.449058407217	386.544913399837
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DHRS2	715.93836911426	1146.84239258543	1277.0921553877	245.378747269929
	6522.27232911897	10862.3952192141	8053.22070239424	10836.7380675792
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DHRS4	721.966539760341	785.290353402444	711.166793546075	850.125434374005
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DHX30	325.907037744936	395.425715632302	308.726328440723	469.64693728427
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	373.096629378654	246.389203940944	315.411701623527	310.075815009404
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DHX34	194.903531690239	191.795952536469	215.167086358143	206.68694753419
	341.819090221654	237.641190133427	256.093363520707	259.064601204239
	222.675370226786	175.810411923013	195.66091457697	221.231455446574
DHX35	397.064325578854	307.982260548106	392.909481887174	395.645016679312
	167.330860677012	269.448201975645	224.497348027469	213.584269089596
	184.414609874199	191.018168651394	213.145460679531	245.378747269929
DHX36	299.669394721682	270.021093158885	320.774102343889	287.656436278551
	367.567681162661	332.032371697186	347.932135290714	437.836503489425
	378.797952580504	337.935183275743	353.187829498591	373.189809737885
DHX37	214.162670073541	250.82359383789	203.004815689972	284.351529744475
	601.018867455333	280.246711704036	335.938170230765	273.073938260793
	294.368406238222	268.186156177622	323.462252156562	285.30221551106
DHX38	317.457588721567	303.762967437478	307.906312092805	349.382889326613
	301.250189051376	221.253717494488	260.443814523694	247.643123415644
	232.556667737827	218.334273320319	262.954856857756	237.989479738133
DHX40	266.057472924341	273.864293250688	365.441289363381	277.86338481075
	242.019489058244	438.146919555296	379.102958448288	402.866491417369
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	127.001546144286	134.70636200986	132.094446606227	139.318078285343
	137.670655293096			
DHX57	156.460374293022	145.104173410801	154.051705030348	138.098165515898
	147.211769989922	169.043206258073	153.505155981348	162.756185479013
	144.351763882823	149.736837985314	147.978039160763	156.000732564221
DHX58	203.727455875381	174.690052785405	143.893751699551	185.493554506958
	172.451128796055	145.780927034516	313.412131722189	289.164969943385
	293.794745907663	146.266350809492	202.504840299605	175.245611094434
DHX8	163.67719444924	183.3378528327	154.900676756492	202.324795686879
	169.301498852556	190.018871923219	153.929167381674	195.946096353894
	193.801858215025	172.310673499572	201.931760074628	165.797170648964
DHX9	171.080373870373	164.659092629962	208.080089376299	185.485858719975
	187.586093248437	228.739556788924	210.117033165026	239.12905945808
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DIO2	188.131876231735	176.714471790643	186.215602572358	202.761449711661
	188.981391266203	157.313737338264	136.630678899513	152.429970809069
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DIO3	178.885625009973	160.215396651606	201.81649023518	178.304914997023
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DLEU2	169.933706225406	171.320653882424	177.393812005949	175.29178007783
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	156.543267949167	149.99203906203	137.229871801676	154.683723064797
DLG1	174.461487057542	182.798526632723	191.58185405868	178.464811133
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	176.155413809391	196.169988112042	166.489436134841	152.957297648595
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	366.788087591332	176.312626750427	141.474583706011	147.245636620228
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	210.751430486845	173.299643109576	237.88097138936	167.293320986716
	210.729945718068	188.291563792748	260.224777636733	196.076386020815
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	135.383585408897	134.045938361221	112.710573586525	140.624437508178
	124.551603326682			
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	142.175432631861	150.51537512828	134.599629045981	126.732121894377
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DLGAP5	127.736712231221	152.504620068655	131.169769031768	
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	118.540620928268	113.879459563492	112.684334910243	110.234403581151
	114.524341239889	116.533361070234	131.593705080542	158.183045411298
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	159.307394610466	143.801139839773	162.351212914573	146.586879656174
	136.755975832051	262.233918187791	149.315684447787	140.870849757111
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	156.445294524594	315.47473326786	306.277823025572	232.492398623889
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DLL3	125.882246459692	122.97229333908	123.643292039274	130.955161943331
	152.373931758229	135.918590725404	139.22543724535	116.969799327195
	120.894583222813	131.892151111901	121.150371270451	140.081280065913
DLL4	137.025625133986	137.725329029129	126.022145004164	137.225659453984
	142.259196792767	141.486042999328	134.516390697561	133.412452607155
	140.245786278057	138.354300118735	143.209289043824	141.997165490755
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	126.515480612924	134.420446702459	172.774914399844	158.200211812067
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DLX3	152.346098251128	146.792951584868	161.755290291637	144.287786573389
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	199.408907117764	246.710233781784	170.531713392258	184.306452616482
DLX4	139.723117427543	139.872976072847	151.567693140302	143.403396831929
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	140.497181450706	153.191840013692	141.666394024363	143.501380161409
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	243.10297424873	170.233084517898	253.42022722564	333.676803661366
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DLX6	143.554726863556	135.968346417524	121.159593382017	125.528638246486
	152.364417528975	129.79093244374	131.924162435354	129.692578787988
	130.593846004132	113.154880173167	141.513636348978	127.144291519133
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	140.374644951491	221.471811658459	142.688809469455	189.633348499854
	154.01988200569	159.854639082837	156.126009063311	178.416969664816
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	138.142193489481	131.510494315469	142.440344960504	132.135448831967
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DMBX1	134.036236880951	142.589312139207	140.655002540298	149.604507483606
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	1659.80909859514	10135.7800994367	4697.94415026712	7902.9189607838
	6203.08085790474	3810.98043907046	8292.04796307133	5636.26097921507

DMD	203.852316712377	184.557630172634	214.684538620841	195.316077537716
	132.224831869802	130.955161943331	134.033751039071	125.942455135541
	130.198147836925	126.601395870533	134.624322761212	124.45782375705
DMGDH	132.851791525098	120.235652849894	135.68605915552	133.613988293895
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	127.749992538985	126.097544650407	139.342430217926	132.439176846818
DMKN	168.643026828823	175.874387612235	155.98413216883	151.083551412109
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	188.268774618164	1762.09874961415	308.281798808746	421.255522475862
DMP1	132.845116298605	120.450111018432	133.028789808654	119.583378101838
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	137.767900781368	135.673080643346	126.837151457845	127.247764390727
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DMRT1	126.589865262427	113.274668934773	115.293844461817	147.740657356905
	130.770335966929	141.990639998829	147.449186980143	137.971108694323
	128.917399281607	133.834423222601	139.180086017033	129.23899614612
DMRT2	123.391298926957	135.823975527501	134.000363767958	131.483427112288
	128.729687597908	137.008110557038	128.738746025289	132.975603230163
	136.584199831088	132.871179509995	182.02250582556	121.316836274255
DMRT3	104.896224175106	113.970633751086	109.471542280224	112.977469350139
	121.567879358508	120.106270603148	111.985567835684	122.102644097132
	103.36057518781	114.749597426757	110.003750007057	110.093565974873
DMRTA1	137.581659385375	139.297276687352	146.624631389743	
	130.009322405768	125.243735617266	135.978826529736	125.752962155179
	128.087991226561	122.098850053347	120.967523586161	154.426605816862
	155.233830396052			
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	145.000523037022	166.958831664154	147.26204590693	143.260448301109
	137.054278745724	143.546629073997	161.740466814881	154.783699020901
	141.550553034455			
DMRTB1	132.113317893587	127.800634041606	116.403106568357	
	115.118170902045	127.097605337434	125.065813262416	125.478878240473
	122.075440298074	119.830261862805	125.362754088168	164.319378349317
	122.94937342991			
DMRTC1	150.874014332213	136.621173927187	129.89329138222	
	132.478801067837	127.295532954648	132.354503055131	125.443242860371
	135.6149724596	126.381288663037	138.858138379065	109.69466049307
	128.0366252162			
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	130.339214643083	120.280241193135	112.675715371087	113.400050190315
	112.776764215618	112.07238018581	122.187031504466	124.130599753093
	118.176124626025			
DMTF1	529.529314022043	448.260934224454	531.421912541822	421.384700184923
	292.145553580042	383.802494922918	357.773949920377	437.248311551717
	338.026161865853	303.300028849873	414.403321220432	426.995700632434
DMWD	464.436380568216	666.570977208535	372.255208814622	934.546444634669
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DMXL1	164.777719508421	182.725987056391	183.005535466221	166.780319723055
	138.861385127242	161.463042036376	180.569583206488	159.738700107615
	137.677396262152	171.504939477949	171.589889474122	134.432461986523

DMXL2 159.399804351771 152.910433120981 151.282370273189 167.698883940638
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DNA2 134.637520371454 138.5833090264 136.922282125029 135.079944196457
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	135.289246539398	159.688862680139	164.562302265155	135.472135601859
DOCK6	262.832376198119	310.23294370018	213.93763684072	348.36178568457
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DPP8	245.153736298067	247.280717385562	277.129985959184	212.33360547376
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	235.961605948276	243.538374440134	202.00431685587	250.443147156029
DPP9	536.805979562807	646.117381960716	344.992791638415	871.268905562551
	640.568342662067	414.888512708716	442.027630433527	499.891000749138
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	139.108656684059	128.112595697836	132.983739057264	130.207485841284
	134.013748718539	139.660641694206	139.807421433384	117.990622156287
DPPA3	147.393178410954	137.685104040843	135.735535533738	148.779043570204
	143.451080466172	146.515240633175	141.88072888667	147.863198012238
	152.673212084312	149.851792558427	140.588811000948	148.090431893307
DPPA4	111.448871835514	114.902673141786	118.308102542942	115.224011128183
	109.564709878576	110.688722702767	110.368392735494	120.131839791515
	114.209249333221	104.861024325857	131.503936441405	108.655415285806
DPPA5	110.347631909888	118.308102542942	111.928204694188	110.273174147374
	130.204571771396	114.574362093931	128.594951429021	115.914842445934
	113.879459563492	112.252555403121	118.770061426689	119.943408501009
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	130.114464233633	121.476730561812	129.320210774045	124.899019467557
	131.85737847837	129.777173431404	118.05386204863	143.305848051593
DPRXP4	135.573170189235	155.388752614336	146.443313598482	
	155.207839370162	174.840923772532	144.896960245309	159.227123133854
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	139.82050388626	148.012353232918	133.631676386591	132.140547119679
	151.171716392043	194.475822533231	143.141852982371	130.816301920872
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	419.126814511305	302.696004448559	442.220572301795	434.792010353541
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 597.651682540611 1164.61390835016 1050.90881385623 1145.35733270036
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DR1	275.929414239664	258.036064876416	271.154246147262	204.318316638312
	249.763375041547	544.462032960964	373.860920943049	283.499120551905
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DRAM1	507.137104111742	429.351447428661	340.193863653875	384.641319423853
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	492.377642058095	263.321559283966	296.290104133844	205.728673153914
DRAP1	1090.20254511452	1337.38160266788	1021.25947613827	1789.51979173209
	3253.76017336684	1328.38230265655	984.695710317818	801.52891824571
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DRD1	118.88525116298	131.22421475185	126.260691770282	131.065633574494
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	124.3501719829	125.682297697017	151.354187593773	124.611144621071
DRD1IP	129.564482772168	123.391298926957	129.208429861964	
	114.191245210321	131.440195723963	131.208112906919	114.421383025971
	122.817695619508	123.145830746127	122.042136913991	144.252481420079
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DRD2	145.517559593811	138.976386995124	134.830021570666	132.357517495246
	131.185836673529	136.625136565562	132.885515958081	133.012692824038
	131.312580984876	127.605805815475	137.683228179974	127.818137805569
DRD3	143.46919253255	149.308475163534	127.91637627901	138.813126946007
	138.136901441896	133.41548225025	127.681662711369	132.733821031511
	124.449679223202	137.215025712057	160.176567985923	129.70974867852
DRD4	188.503673684625	288.436880408624	345.627266482686	368.134303229682
	159.476343366991	153.929167381674	146.550421651378	213.877482604185
	185.071775840607	160.648791273795	217.89028736436	146.450806121927
DRD5	150.724359913994	128.020374599828	143.370698101204	138.628169506372
	143.589222264786	121.865696440776	129.733935614802	141.775100066311
	136.111569529393	125.489777118532	123.227904580467	128.284564251279
DRG1	627.526008812413	576.451964662024	814.110601393539	525.287367366192
	484.568420044471	916.026216386031	645.438835606933	683.655205499779
	690.246312542011	880.140852200235	669.602939159192	669.731546951281
DRG2	338.510045856515	429.992169596618	330.944203807675	488.249967208882
	339.753059801136	309.47429862515	236.855293143293	291.839070398338
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DRP2	114.364953312191	117.32734978289	113.716741872499	106.066897223031
	118.731960910224	108.970432124412	116.011005504201	116.742079521048
	114.953328013917	121.668166378914	134.955823960889	106.982655360194
DSC1	133.54741488531	149.964827055916	152.748807709142	143.821269460523
	138.401406375804	137.045772853855	133.26167785455	149.387467833684
	137.987255649072	136.22416508552	139.907840403521	149.467626202395
DSC2	147.123477579978	156.437949042181	145.950701448912	159.133905701536
	158.650226303456	225.005311517365	152.109178223495	204.318316638312
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DSC3	185.570062118736	177.223953859764	184.900027626401	185.258354905314
	175.210232663606	223.81987303579	162.06940121135	221.171478972931
	181.654319266685	1410.58825009446	207.920724788669	176.267796612066
DSCAM	141.652000792271	139.430808017891	134.569883788949	145.369791572077
	143.497909064641	137.734887788912	140.150884219813	128.372225487481
	140.946729014405	141.156434225355	156.642441706727	138.237030685795
DSCAML1	121.076652800015	145.656767712617	158.278496385543	
	141.592180897595	136.758262322199	148.492328039604	133.444865587023

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	287.374706071354	277.101000223971	203.004815689972	351.585604465402
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	187.035957486928	167.965981130329	173.260348096238	161.475694690038
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	140.83570584033	133.74051512341	129.583916648999	130.425809387444
	148.160350542849	140.281512754823	117.815045605383	129.072173761566
DSCR5	143.378998368344	153.882081780197	146.639556437847	134.30624644595
	128.645334554749	130.559515534303	136.563471322998	140.081280065913
	131.260111979219	135.872060352476	162.481362579872	128.191959554459
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DSCR8	119.184780023269	127.144291519133	120.465934391246	121.497645719165
	128.692917766138	367.644907862372	122.676368520743	123.354093930164
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	153.108902978819	153.610428214886	173.563363508314	158.434048174501
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DSE	238.548578086943	202.162432624505	183.657525723012	181.202396068658
	151.627496656808	142.980393157113	142.900756181761	152.983678871668
	178.780662099615	265.148061007894	152.772177215856	142.03837243998
DSEL	216.582862850259	195.447966116819	160.256877369493	186.1961391235
	141.880044424342	140.511988097197	133.340152756136	140.839056652898
	138.204611862656	147.971492964243	164.757907224537	137.77601089414
DSG1	114.441223528256	128.992837936606	137.871870950302	118.567548265638
	127.881498149714	133.94206203396	117.873333897609	156.638070437044
	127.507557925713	1906.81344236287	157.70581824787	116.615250922316
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	142.705504445895	138.30326146769	138.831297375659	127.114560076444
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DSN1	207.298994298453	208.776711004753	269.238332581564	218.350166753833
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DSP	160.598186999524	159.082447644277	167.341759854203	154.675189522146
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	234.768591315095	238.270501389189	208.587188476069	254.768537214795
DTD1	253.186749111526	248.085349787686	226.144012966486	289.761702484888
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	312.339824919124	599.307072499899	259.672238210968	394.101052511043
DTL	126.755389668637	137.961504178836	138.16337207876	131.434121613176
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DTNB	122.343979874508	140.557871626905	123.991249190444	121.065278765151
	155.343619434375	117.051541123239	125.696434307671	140.411200873743
	135.268963938932	123.341568893224	186.222567239198	117.119533897652
DTNBPL	176.802886129341	165.327972973978	188.864388750448	
	169.860061216981	169.434164890542	153.787447416111	171.660157220703
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	224.274329367512	160.604195264968	195.050834479424	172.120772549791
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	136.432109029368	124.486701452062	146.70774472499	145.034179171835
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DTYMK	132.587392944892	115.656801309856	143.745594527046	158.872962797815
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DUB4	136.689064885984	122.020405846301	134.748177388398	133.160197638474
	134.374551571013	124.69564501518	119.696656494403	128.601885372662
	132.359319280352	143.015905927379	129.263794008537	128.714459781294
DULLARD	294.746622369436	346.691690520054	252.894371238554	
	416.546844844021	338.866471651692	276.925017614147	253.754869975548
	235.48876511325	232.892635502424	240.341031437493	319.018213637357
	236.164692035094			
DUOX1	146.672270660899	164.690739760426	148.01816554072	132.600208090551
	188.277563426829	151.690538050817	224.062024091915	170.233084517898
	152.89366585726	352.180110869664	244.440857688518	193.358728044565
DUOX2	109.728809191027	114.704831217037	111.328185454541	105.952640312359
	111.935554828717	119.845508281414	130.450930089722	110.942138645171
	123.896578371318	119.432201417811	219.246271924313	115.235444833856
DUOXA1	158.723133891017	145.274345879987	166.803359138942	
	149.155345369055	167.125830254039	162.244691888031	250.928804390353
	223.094496588657	154.8975607055	337.342034950908	345.565843875296
	175.199369463703			
DUOXA2	151.41546939633	157.891350650633	167.662761175661	
	146.740694608146	152.395272857974	173.647320180498	152.007436762651
	161.930142040623	179.674744176904	187.231049280818	192.009562635198
	152.219906297607			
DUPD1	159.320692108734	128.669887479835	145.999823250463	154.218967720305
	131.148926523383	148.120968141789	142.785631812039	142.180927190578
	126.515480612924	147.995991912855	126.678746008577	145.005991300977
DUS1L	254.133112176024	289.576706584644	200.468804559127	264.476846259384
	492.377642058095	402.140437036706	350.983969007868	558.810095726517
	391.185365567603	244.011434605133	329.82030842286	503.093655556038
DUS2L	275.39986964837	261.814227719605	250.060734219351	329.660368915848
	537.350891960682	369.156887999872	382.960724128105	403.907009699589
	455.665927568395	334.857690525582	435.901794650816	361.390981655795
DUS3L	299.717935831288	316.364342983155	333.868818855397	369.434158443561
	594.38228123675	447.182566890086	413.084646927035	482.466736153026
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	173.306283668215	160.870390779084	204.637887777803	251.039117540764
	162.351212914573	172.764511709731	261.671277686467	203.335012796883
	186.033093285894			
DUSP11	286.194197552489	262.389583658305	280.246711704036	
	216.381643581705	417.36454228858	570.26564132238	533.54045706916
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DUSP13 143.298218989451 135.872692740227 149.902420337518
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DUSP14 616.523853569261 397.153801851621 423.607299503704
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DUSP18 213.93763684072 237.420951138877 225.702629835215
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DUSP27 140.385509382606 135.730331297139 139.621016978072
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DUSP5	1035.98574557331	853.314313182949	419.763812610671	625.152889992949
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DUSP7	136.80943340993	153.922713834296	156.808992920564	147.736397115265
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DUX1	140.50127034921	138.094719587545	164.991522994763	142.37457375182
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DUX2	121.154389729409	111.1002996982	111.525984720592	109.333276735523
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	111.078930787656	132.375905857023	146.59366188125	122.187031504466
DUX3	155.737364431382	164.929445749888	148.320310040998	161.874184077257
	138.716375045891	159.05213637758	149.040720727554	159.479962316199
	149.262900833177	154.064184525311	145.954700424725	168.697565122105
DUX4	142.866874321248	151.040909999868	147.449186980143	145.320945010364
	152.418315087218	146.879019367939	173.790848780011	153.320911882529
	149.343930487315	154.916023131856	153.56082876276	151.503307004675
DUX4C	155.608876496443	150.531753446398	163.899808733609	181.110403721353
	148.846121873401	166.570606752678	157.108043150259	153.488903967311
	144.785852437305	147.875855077738	153.832132196284	157.646948327818
DUX5	104.780306305981	108.910588012315	106.667175621971	104.154182930018
	108.404733392914	124.895023786422	107.91011371422	110.148555045276
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DUXA	138.254479653425	123.122705969332	116.491342107103	130.334622987505
	137.77107995457	146.528945049588	162.870317933909	136.691234705997
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DVL1	160.748082658758	157.524049610272	160.446191353364	158.647814364392
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	266.892524131545	170.753615127089	180.437648146588	183.3378528327
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	2947.51998516453	6006.01682776552	2365.99940149374	3015.70954394585
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	128.864822736402	138.399665664034	140.36278240974	140.605866597575
	134.993349945063	141.836648910979	133.490805791504	143.061415008831
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	151.702809524494	144.836902182737	130.410584413031	154.615097099186
EMX2	227.467161919443	208.816482659752	238.149614104568	183.081450609516
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	120.897228878841	118.991494185841	139.291775075915	136.446877465751
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ENO3	239.109163320417	238.344676327918	217.050602253281	315.064477782052
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ENTPD6	244.280971257965	246.616749748028	244.117082987416	
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	162.244691888031			
EPB42	126.388778582602	109.770126492743	117.48427100606	132.762755202326
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	205.52620827767	130.763957515652	164.942652212218	136.734131465433
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EPC2	182.222567053422	183.193029399643	163.102043862117	201.702688815038
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	130.491742824575	131.563719927798	181.088268167074	138.861385127242
EPCAM	145.152605166094	233.71520737817	164.603403251634	139.59941545613
	2036.43904731226	1870.52504853779	864.547109080675	1507.39761667421
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	127.806138997958	125.598828334465	129.161305053472	126.830269821364
	136.022614387461	404.54681330209	139.444577046509	126.899985772157
EPHA1	162.513107496558	177.457362387052	172.128489882364	153.453969224725
	878.520681466946	983.777608766079	504.709613434391	356.921627358141
	399.071041584646	612.06231165648	213.531307836195	763.880957432979
EPHA10	137.958714945718	140.890227770353	140.026918871291	
	137.263202517233	163.248980088946	149.869314204354	147.017958916908
	143.096097305398	141.36525744062	148.794293762142	164.914114315732
	138.842935439006			
EPHA2	163.809967446414	203.298764374262	156.265168005937	179.067275037015
	486.524284354103	421.836020491624	205.403820910921	220.633692394229
	320.305852961452	422.520372346993	319.090371885653	331.684298221133
EPHA3	229.567444213626	243.246632667118	167.887047631073	218.839681873515
	143.655901618594	154.701413581915	135.726760147904	147.174977926293
	140.946008063839	133.985582992986	129.417232210341	140.898380345452
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	174.587558727209	435.183433729519	237.601064742453	188.959655155629
	219.171591031864	299.669394721682	292.429831186609	286.587945301875
EPHA5	121.952255635669	127.174074003712	114.405811161631	119.135701239571
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EPHA6	138.48552149031	133.78629612147	133.259321087534	136.274199465472
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	133.478829770103	134.66169946771	130.083266044947	134.418976976995
EPHA7	117.442158626871	117.218616752346	128.463982896081	113.370762349233
	117.77708734157	114.849872458647	120.944267930809	128.36533737469
	123.086596566142	119.463337435512	125.013839352291	119.631847624882
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	141.329559699056	144.840218312168	161.144841967903	143.494511683426
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	125.800508653231	119.701313125748	131.617027772841	124.328903559955
	122.955724972547	122.317877997527	136.522590104535	121.327397317398
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	199.947823264085	150.215811815246	147.606311227037	141.239354296152
	140.251168248117	134.087875547168	166.635366968851	134.312156667838
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	150.096558906597	210.015199832609	149.574353706911	115.821231468312
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	791.402660066193	261.426617866925	258.915802108562	298.028932089399
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ERBB2	308.679189788554	379.016207754533	296.497100375888	320.467139255533
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ERC1	208.385295246155	235.822266856967	237.692959394487	256.394563537658
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ERC2	103.36057518781	109.182623414389	109.228587997052	116.685023927951
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	140.36602776806	151.716042884808	124.375348764151	139.314945862113
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	1746.30519466572	147.370836610849	1419.4638331856	378.4377409749
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	2051.45788386541	1996.65760745757	2677.17579532816	2476.51542420593
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ERP44	183.348764012358	172.128489882364	192.140442881209	175.363223521128
	154.661456780865	179.048139035247	150.875392181869	164.429483677715
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	356.376890469558	275.841929188802	230.91747428831	266.756647182704
	292.145553580042	268.660078500783	257.775569674531	196.598810934837
ESCO1	199.714647839712	180.035652063942	195.513703253634	184.482849019679
	187.686326872667	241.019436415703	215.897620927751	247.806371601734
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ESCO2	122.719785082196	115.01682934323	119.01990099776	120.571074646092
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	133.236084190243	120.160652344221	130.894384800009	136.71484425521
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	223.638850960288	393.707031354025	263.204269632206	209.417052464583
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ESPL1	140.099069486005	149.704586651832	138.323567041191	143.011042973347
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	132.216453078716	126.676875319815	124.749727939593	120.862516074358
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	310.815067427296	168.702991603656	207.581907737176	145.146797807275
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EVX1	136.529820456592	128.455670598648	143.107570838895	128.179293878252
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EVX2	137.28323311107	130.772410329685	138.328508662816	123.069963218224
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	302.768870633398	427.452114719877	384.296190598736	397.153801851621
EXD3	189.082778234831	188.605328108654	205.679992893049	213.364858759772
	152.961475450751	147.463822782303	141.125248464806	133.345885001759
	145.03804642447	140.628614910068	203.149001616967	139.534014289993
EXO1	127.545397354821	139.147327302581	131.848213704003	133.239703270008
	168.116928722035	168.963976596839	145.783320434143	215.247472744419
	183.138955445765	163.125317704446	147.87699690647	184.451469623426
EXOC1	194.734255772365	196.615914367563	222.086635504858	173.424541543058
	194.979795724712	253.754869975548	298.519371102278	283.556453980797
	296.497100375888	324.56043349882	367.732191251547	295.778154263981

EXOC2	324.79327985156	264.233381434738	302.637859140061	262.691387377392
	202.324795686879	219.171591031864	245.082816415008	226.678503956411
	255.225145197422	294.323621186916	201.987081022654	275.696829424061
EXOC3	415.82312615045	449.523996620257	514.354512083591	491.35949123223
	472.108893832845	323.788197265954	393.264726588522	321.627969147543
	309.229066204308	379.862305342147	307.518881119091	304.751330890753
EXOC3L	152.585572167313	163.432972512188	177.11682975342	
	162.494429648551	170.381897441659	138.780488114634	146.432468585736
	158.770502070553	170.198508633417	152.088488171996	145.079450753969
	161.657344146676			
EXOC3L2	128.539969915702	142.924854393401	139.85010721496	
	128.5581535393	137.091932621041	131.04767483614	138.093181144173
	125.121517583946	119.83679981791	131.185836673529	129.831076624826
	125.091038614268			
EXOC4	358.975346234854	435.095843349921	357.928880740814	523.306451464643
	310.174932137546	335.389274425025	401.87674893993	410.845034795716
	369.373283422151	340.966515437272	348.711663415777	402.866491417369
EXOC5	205.821101661022	202.97197145851	222.268494113686	226.640323471375
	182.397795261147	213.877482604185	207.204293555178	185.717123241832
	183.863365305103	271.945851739635	188.847480174391	226.334672545273
EXOC6	222.456810024193	208.363905749882	231.698163424706	218.592402813219
	170.320777845496	175.128935809466	168.783725505491	176.390014020936
	185.046826969912	165.027938535393	207.902853533132	194.403848868583
EXOC6B	126.110426731941	130.150998843383	124.378096177801	
	136.030538642815	120.131839791515	130.473842500245	135.783125948784
	127.350368333088	135.991630745082	142.259196792767	155.371772547395
	128.074531806621			
EXOC7	791.402660066193	847.564628337955	772.061917233344	1145.35733270036
	765.128667448261	819.887322757281	932.505095432049	821.465895280454
	920.083835296898	425.471195039676	829.992212133165	1127.89414462606
EXOC8	148.688413944868	147.78095608696	139.555322603323	125.384706864406
	149.34605615699	146.181764812924	137.381470768186	140.559553697317
	135.351344868436	160.773510498005	183.294526267593	132.562090247233
EXOD1	153.56082876276	153.126111237668	170.223509007961	193.832033192375
	147.882530392424	180.493406236326	137.462720784077	196.942880967705
	160.975741751317	153.45050352117	150.191645194625	177.802767772786
EXOG	146.873719524815	143.865717051998	144.822943770596	122.850678471084
	139.799467834109	144.139062513587	150.439715066903	142.272117655292
	143.259468398603	140.730085305185	143.899201949317	141.422441104854
EXOSC1	371.369895979832	348.711663415777	449.598181155897	
	363.445110627483	328.269845211173	420.502251256406	528.478292835214
	458.782864873657	409.883222213537	423.826189747546	475.540659315339
	593.320132696649			
EXOSC10	635.536499281829	639.688482258192	707.173691257322	
	668.570984110088	542.740017003369	745.153336165802	894.46029531926
	766.420275252501	921.140932799223	894.46029531926	802.643357549193
	829.126529857044			
EXOSC2	269.448201975645	253.495214569632	302.1846598234	
	236.899421827427	277.073510273425	242.538036654192	237.249949461085
	298.664864578349	251.993821914623	264.273245283343	180.34788837703
	271.087125858775			
EXOSC3	431.019896339435	412.415549375221	452.077434390612	
	382.806570442504	712.94845413251	560.362502519639	576.636077770998

	674.905270154355	703.29965727829	775.5664718389	664.60530723006
	502.170430910893			
EXOSC4	214.434355263652	219.246271924313	207.960802948119	
	257.5097052677	832.911633923496	455.564394647943	407.518324776453
	340.193863653875	447.909277144896	297.805768288377	322.614169214764
	337.935183275743			
EXOSC5	220.896363324634	232.344545356395	289.911635155481	
	299.463563393179	998.157643452741	564.056592672374	588.863382995875
	511.779988437654	563.907454700224	323.244664586314	290.184801898828
	267.342817344746			
EXOSC6	398.892968579918	405.183882455109	284.534369213195	
	377.951523644306	790.790236361922	314.90123632547	424.025588636796
	297.285037835812	448.260934224454	714.052063877292	472.279492678374
	483.549698382115			
EXOSC7	456.656123023446	430.505037012814	587.026042400878	
	477.160464512705	972.468110850466	630.670530516275	784.72162514331
	376.189276074918	661.545179083009	479.761165832339	402.213774592085
	575.722713461982			
EXOSC8	372.81255844018	386.598037190663	390.098830270926	
	376.189276074918	246.355720496468	579.678635803225	394.810886122555
	445.763740779039	433.405369327168	502.281584081805	573.846138124455
	632.031410234577			
EXOSC9	347.620001353026	330.193132765826	340.42197893246	
	344.128576341892	288.88486628661	449.745016106912	413.000072500071
	470.95418656881	502.935749606918	558.621429366984	399.872401268958
	443.623904480087			
EXPH5	141.857434100065	128.56495182759	132.71633377967	126.700147643
	146.320758317435	132.409582164007	122.773736159743	151.248365605631
	130.150998843383	132.357517495246	148.199249855894	124.183297351614
EXT1	550.671679318681	446.07651799079	429.595453454621	445.95114929414
	309.181150342727	259.625943627223	337.434882771953	272.571092944711
	313.412131722189	376.082040863747	282.742833166843	354.840474468573
EXT2	347.411500022053	304.679197422439	251.511405838796	286.774606295106
	527.294087043601	259.146673652222	450.851711160136	234.182164952936
	234.531140131763	292.640251411131	248.03801051527	300.482945704017
EXTL1	136.504438803108	159.218886890035	138.514356748249	142.812521349963
	154.183537565624	119.755151432304	129.1829592305	135.092226300609
	123.994188725172	122.079685222733	141.145419751161	128.23432652395
EXTL2	308.330044958513	289.09614335372	313.077481033093	279.921244070981
	187.50236021149	374.657816575897	255.435582426271	237.692959394487
	234.041863839123	244.897869154624	329.660368915848	284.715092831843
EXTL3	420.248838397618	496.426739836535	369.434158443561	690.010326122574
	346.065746911798	272.01602406899	342.315456386729	264.526189799049
	237.78482574225	273.478372861114	358.897128592042	261.721726664029
EYA1	140.447933562667	137.46978401237	130.257242615762	130.543453631154
	126.476866025397	127.416912237613	129.114161128113	133.554822920765
	123.735827460404	130.365804613342	129.980354138975	132.490323093932
EYA2	132.119370332298	136.118702626862	138.032265227728	127.295532954648
	203.410932496844	162.828844182372	337.728737393381	189.37832342197
	163.764600217347	128.517315006019	180.518621542868	131.08389186558
EYA3	135.461112284848	130.226993687215	132.615324904193	129.930888107958
	133.883527462382	143.658600740177	140.48372620406	142.866874321248
	128.700516033555	141.74792000689	132.421863261746	148.143367490426

EYA4	143.879597098414	142.397433929092	136.585541662028	133.611588728019
	123.725998173975	134.885883559391	128.090665893885	128.723261477217
	123.038646914863	128.720517906732	129.088718286391	115.545558600232
EYS	188.166168428752	191.335616210093	172.965746521132	207.674249122047
	151.051672692659	201.517356610591	174.953232190285	189.678680702271
	180.561514455864	158.109836032481	196.759802659759	176.964088090133
EZH1	164.072443259668	155.02097482487	163.248980088946	158.089922688997
	149.419308407564	161.73079180403	153.018378403144	150.45404183949
	149.586651393588	166.788336808924	165.307808075027	161.463042036376
EZH2	141.784881206191	137.449776383224	138.336667434109	149.795655754301
	184.819937046061	229.97640195632	173.204163917896	237.940015617254
	233.975864722289	221.424451092316	174.441287575034	236.707875629511
EZR	4811.88424516272	5955.10816224456	5382.31371568106	4527.53010866974
	16974.4822983201	6877.52553567598	10741.3064142855	8016.1652884418
	8211.38792799248	7038.48958943724	2185.46850787298	6670.51138785163
F10	440.657747083721	301.250189051376	236.108432603479	210.117033165026
	108.715328458556	120.809659457873	113.886420801388	118.201092260839
	124.238319768621	111.985567835684	118.206034087145	114.143874572202
F11	159.735182155088	163.863677822465	163.407360509803	186.321879879561
	161.046418048832	167.456481678813	156.866867371872	161.614426723521
	159.781313090489	155.014930599769	149.912481263284	164.690739760426
F11R	221.849661343124	283.556453980797	199.991077347491	173.281506912652
	532.235193634196	694.644744547412	852.436775264873	832.014011481807
	437.122373082112	718.871732206362	1367.92869625376	892.868661511516
F12	135.916668738753	139.835983835267	144.235298492095	157.295602588814
	296.497100375888	259.252807304272	214.595639477696	183.130891975122
	163.82704877497	1282.38953612054	214.684538620841	499.048754087189
F13A1	237.312766830206	216.457866890673	198.954254778846	223.778708427552
	172.980441569522	323.391456630794	148.868265867275	316.895545640437
	277.561376169965	274.77366169918	312.224309341171	205.047145898929
F13B	120.682485578097	108.79453730066	109.209241676429	99.26400442869
	107.013012418356	113.321454160244	117.048846466839	114.39161822971
	112.088944448944	115.389934936253	112.420505354139	113.249267122926
F2	134.70636200986	135.750578960284	124.033766796333	144.924212639731
	131.928871107722	145.058110060639	128.723261477217	121.792573534134
	139.609751976657	117.251233255966	140.149064156135	134.522715664256
F2R	15354.74541236	15053.7547401937	18953.8127741918	17917.7303120499
	14108.0461617941	17975.1602090863	12690.801964606	14798.1358474998
	15354.74541236	12368.1423473066	9715.20127757161	14544.3732040823
F2RL1	147.595573192579	180.80811429888	180.952017616136	140.864196804152
	194.388383297922	172.509081696309	480.712219116621	190.281570660806
	162.047249964859	708.268962600305	512.723592291378	414.333324610267
F2RL2	138.082870754768	119.072213573568	126.776406817106	126.784243009941
	133.345143691828	133.771691580031	134.961156870831	131.416923875254
	127.265211069837	125.077260389449	129.43892498257	127.242627779136
F2RL3	133.702845956639	141.801472885127	129.578488688293	137.778033050658
	136.891612156271	150.272153646712	132.620474788855	131.83430682495
	131.268454024753	138.489443610941	132.526286141997	141.13343407335
F3	409.883222213537	393.707031354025	178.320732186309	201.773745532242
	160.537464426971	306.333710880618	159.207567680134	245.01029221002
	205.509515144263	1116.95795024994	193.275162354467	232.250434241457
F5	140.434086004204	143.926968000575	139.557059245431	122.65547320922
	151.687402863648	147.722646851008	126.88066987372	177.955579729463
	157.410205523901	140.83570584033	150.468392290279	130.076926011271

F7	145.698637908482	136.394920983439	144.985280401441	142.19728670565
	127.975441922402	137.687480242109	144.043818335414	139.871928127715
	142.783159341229	138.469997677004	153.821728151219	138.903450375532
F8	137.354782768068	138.963864375073	140.29803170157	138.988919994625
	127.927232724978	137.650917262528	126.728375196449	128.019837242559
	130.385747820089	140.377179372804	131.132508349222	133.587927144452
F8A1	232.105867345662	220.379186481273	260.888612454097	287.455622143233
	569.133295913677	226.960024551778	229.130679600654	263.005303710717
	207.254220247481	305.577166690215	262.061371466369	292.429831186609
F8A2	130.430917518283	144.515002122324	136.908157358689	139.779754416105
	154.2433882385	139.984102798711	126.178476831007	149.860490620507
	132.17211158061	156.75308999904	135.959893035019	141.038721816572
F8A3	143.464614171516	154.954906872501	154.861507590906	152.925281215593
	159.801315111886	144.863617174741	140.804008584006	190.520750756082
	158.528301072565	161.979914539039	154.843607752473	177.752497164503
F9	155.756074127526	140.861849838223	139.628966306048	157.40255559397
	143.1288704752	152.56002779985	150.687819649072	159.199045715212
	139.708303388546	150.109192774079	147.89884142817	149.331805754859
FA2H	113.656820701744	108.589444216106	114.927420605185	119.746227888415
	201.458970969685	117.390049487174	119.32696696175	123.964042357475
	128.400741751903	129.083756379376	208.016730103629	125.887854850942
FAAH	156.68541512214	177.567833691547	160.035282578603	156.998563448664
	574.262112643403	262.671819506189	217.380892198811	202.60339529874
	242.848821222611	223.408447580188	332.032371697186	359.329520507158
FAAH2	158.163599942547	151.219051767056	169.940177050294	155.259089547817
	189.678680702271	173.432960318793	213.382179917193	203.777944180067
	194.072260528037	195.481680273686	227.965783945702	240.224826736571
FABP1	138.363553671822	119.005230164124	151.020903727566	151.554352209634
	139.15175079191	144.589482298525	145.841028932318	149.280480796544
	141.186913979346	155.516697616637	124.140880678888	131.346126135605
FABP12	130.962368929833	119.176139463015	129.176532377543	
	128.407968177242	116.346181133756	136.162285671867	122.268560536152
	118.486195373059	124.501262458393	129.45936538019	125.26492723752
	135.304167695152			
FABP2	134.310685502031	124.555847618988	126.086991456747	136.164270397912
	127.093255830978	127.030113960477	127.167918433035	123.991249190444
	120.470801825675	129.365004129784	146.229239731545	125.800508653231
FABP3	207.204293555178	222.736706411035	171.722839172783	310.533399024851
	211.916602665089	121.157614971438	129.873110494826	123.434963905308
	123.439897913722	112.78323842342	142.77817647952	126.752999657665
FABP4	1007.7803477458	1744.58410715956	1136.14069801696	1427.70292953827
	178.313238745665	340.193863653875	270.069634610818	7733.95252458705
	226.871028543248	260.746952459282	15745.699731183	12171.1997841553
FABP5	223.107391048316	307.083179338165	254.83131041241	250.676092725829
	827.863789600981	1291.12004949379	2423.84327263111	2867.63319136936
	363.195371577097	9293.35991367953	2730.50913686613	2637.62596741408
FABP5L2	515.432065049838	958.005138077899	584.919615953457	
	634.356322976353	3262.24877138481	3504.77617298452	6324.87600301793
	7948.88765120294	1093.85316636801	18146.8167991873	5981.08862268291
	7144.3257417116			
FABP5L3	119.603565559838	128.341887728118	120.773552653073	
	128.870079563075	127.560308850342	126.728375196449	129.153882779488
	137.365567527202	119.315932907373	224.274329367512	161.002880798225
	128.50733429744			

FABP5L7	135.975265059269	132.416618775337	160.584760930779	
	149.408530395745	137.534079082878	138.846543789882	148.490236128772
	133.367085445965	135.509927917168	134.074425424613	146.247825342634
	143.313605534609			
FABP6	117.77708734157	126.995207465164	119.161972571516	113.582654469735
	202.024504592763	374.718289636553	301.638918685657	576.997804865103
	169.067064352955	189.174957940401	465.54817048856	683.365770196967
FABP7	129.45936538019	128.032141013681	137.157492354617	134.772545694636
	122.442590463781	130.306478656159	131.528729642144	122.254824223167
	122.03508430361	119.525701528869	150.73248190848	138.76667538162
FABP9	127.099995420363	132.47775411384	128.671626815639	131.218141814078
	123.259322051795	132.99989565368	134.301187092088	126.812867041543
	131.200042525339	120.325985681299	122.959518532165	130.054105892394
FADD	324.615093103582	367.439588680092	370.617422894068	344.856199123543
	805.875557314697	512.312880441098	688.464980326689	446.948699651916
	475.213525346293	431.546135503733	671.821418586421	735.165830487162
FADS1	317.719381113816	300.314088267108	231.372316734945	271.397087928135
	490.269418483997	187.016569445646	231.314944217099	254.036619126409
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	160.713790305656	147.330897105911	191.241000498118	136.93893152919
	148.624135810148	143.028618831382	234.28146549561	153.972471779464
	179.704370382771			

FBLN1	7003.06505884735	4875.22637286719	3700.75770419386	3712.67025366957
	5250.88041666757	3408.6535437109	3413.39994653641	2962.11407134162
	4073.21075791737	249.400820221233	1706.06615968622	396.04031733841
FBLN2	3130.30693451802	2104.59597571915	1109.79571066685	2421.87041217217
	1371.56635975955	178.984409575632	265.470314691221	179.009510246709
	306.59090554099	575.23272138912	196.990867962546	172.245089970803
FBLN5	1504.15682715484	890.810315261602	1001.92763014266	895.463355957918
	164.21464602746	203.704734790602	156.852187451794	215.673878830563
	220.362946606131	182.42088387266	164.901810642726	170.158189150422
FBLN7	159.973758408655	181.400788152988	125.576103876855	142.919910421524
	128.667662783862	131.265594391542	127.466779212194	135.088149158147
	140.907889482107	137.244552699212	165.277935422113	131.273916869754
FBN1	204.237952297239	187.519053043173	148.25001336038	260.921177985439
	116.983869766097	113.38168751499	120.644987579644	123.929180327423
	136.923079303455	140.309394542299	141.724442944322	122.133292722932
FBN2	165.880071298733	174.389706515542	174.576132939661	155.896065329825
	380.146996799549	167.421776383056	146.919110530891	217.408824020423
	214.200081541057	1144.07896461196	167.325227483198	176.77183598995
FBN3	146.927825526831	147.319360896679	149.821848101995	142.311108110185
	149.824791474186	144.961976523279	159.2488784104	147.038700869156
	137.17370871536	154.996829706812	145.741465098455	145.407517107023
FBP1	336.70893120135	552.962676093514	599.926717145115	188.641397688261
	4043.28299602858	2309.63504858248	168.521601064374	2352.01196541874
	1732.52466021178	296.088938872643	1736.03342040646	1696.69982157582
FBP2	136.788269716383	147.218415065692	128.782192901724	133.387065801837
	119.418866166776	145.799530970042	143.137158027738	151.826103919919
	142.372470063444	148.08870546717	146.070871543153	173.577723566555
FBRS	397.737702926328	457.130051460676	434.509391836336	566.914448800423
	697.97116981445	541.460843251764	484.658140651032	478.847650837714
	642.057106241761	445.348044448953	532.786041960586	443.444024128516
FBS1	186.722842989058	207.218779485342	181.036375971015	204.260800563197
	220.242344043437	178.606255846041	200.264756078778	187.296479395462
	192.640717683236	192.627266049516	222.156471143857	182.929326147069
FBXL10	578.465753476561	624.467319041884	472.793332506369	
	643.468308027006	907.306121257236	643.306565600931	563.648536446918
	648.38049615541	743.510369438587	504.141861790903	302.570932942847
	600.757699463777			
FBXL11	664.343553341563	651.998433127992	472.279492678374	
	889.6617510875	634.046843336128	542.883453307	472.279492678374
	401.461825804111	564.588706307423	399.664121956178	137.519771130707
	428.09583118349			
FBXL12	359.493075382333	336.380724981693	333.200230327106	
	339.172031360524	277.129985959184	365.864755316163	357.972320648217
	319.966785546419	269.831616158113	343.346755862776	370.140588087649
	419.126814511305			
FBXL13	153.551359970644	155.502363062633	145.640156204495	
	158.098055917452	148.215172022129	150.405715534245	148.176995739142
	145.662818023154	139.217113811817	141.557420268382	147.526701500887
	142.616603901398			
FBXL14	187.65716654049	176.155413809391	212.420616436137	
	181.79418355897	174.962380276394	187.30908753142	183.998458233995
	154.371946675862	159.696443182844	177.508603290389	155.904257649751
	176.11287574658			

FBXL15 361.082957133644 391.185365567603 338.866471651692
 486.653672099699 359.935451429371 201.637540930213 249.449151040445
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 320.467139255533
 FBXL16 142.939578759097 139.936661244361 145.726651022813
 139.008854444223 147.841960346835 148.11536596061 137.391141254051
 156.873097743717 167.67952650068 155.368204597287 150.218643705925
 168.210416363286
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 135.4702891855 142.866874321248 165.249658565871 155.243643210534
 125.27625242915 132.011199659803 171.350620456505 171.358746749715
 165.003646188775
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 262.577672828611
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 146.782830477983 153.519207482423 140.092648878007 141.302075343586
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 272.117599603586 294.280238648737 281.369059516242 276.582734590058
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 148.89180107448 130.735223763219 161.841975820372 133.43362126395
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FBXW12 132.987389721592 147.357032438442 133.122174596886
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FBXW2 203.317264638828 208.72873686638 198.023465629218 235.595194918187
215.607567127195 167.900071375885 194.979795724712 170.655648004461
195.230219990395 218.896760804208 188.941900997781 173.044636575826

FBXW4	729.729297413233	858.524630425687	968.157701932137	935.784743413185
	573.846138124455	347.812754957414	560.015499136193	327.384671423687
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FBXW5	267.869879189095	278.555009982029	263.845733455915	359.329520507158
	403.292651623365	179.241385747152	179.593817076317	174.928155956396
	208.628626112623	226.458509834965	288.026656721827	193.008902902654
FBXW7	216.126000558319	220.896363324634	186.733394375839	212.291528248457
	209.702683803624	223.429738319185	223.389795643722	211.160781061336
	224.439293045835	255.039661999732	221.869191666931	242.657224881824
FBXW8	145.020615552964	158.157097243342	150.927628184034	151.885992695789
	161.019770036957	148.386249316173	144.273011517032	158.020651857664
	160.32111439724	152.28262533486	158.915858403237	159.324816814876
FBXW9	215.453915231774	213.93763684072	211.300733064951	235.795627549799
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	134.580526467375	135.501192996538	144.182891591399	141.652959320966
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FGF11	118.572988141773	117.907840952685	103.168665937677	118.773864607553
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FGF12	145.07503221134	133.994376985194	137.09814291566	131.148926523383
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FGF18	162.825380100343	158.963726206466	153.19516365535	159.74220366735
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FGF19	143.874735808114	134.607501073433	132.014213378179	122.937281123348
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FGF2	295.973370766318	267.869879189095	299.29004204677	251.704037951295
	134.66169946771	134.952584272187	129.318409053566	138.028813480968
	139.611455791957	125.107483348755	134.524644163286	127.259038241163
FGF20	135.122770943076	129.189479305468	132.66318177913	129.794293922951
	138.444427173667	130.59886317117	133.978783899572	131.230501496659
	164.008063563113	136.428826558493	134.57472034679	131.364187047583
FGF21	132.955473649746	136.387904287903	140.583804906052	138.679545821015
	145.669033804967	143.390971600678	136.444883411968	129.47419698487
	131.951649373072	135.624881949214	144.270828498856	136.044670179122
FGF22	115.224011128183	133.303201646987	117.348231147283	118.144109564626
	123.45956380046	119.391213033544	112.07238018581	112.832122823829
	116.363556872071	116.310166003024	126.512613967438	117.754181884939
FGF23	154.705630035232	152.251128595777	157.256812907353	136.19083681188
	134.897958140444	145.208597795717	138.39424470172	149.962143642332
	140.154925193842	134.045938361221	164.497445195378	148.497497694754
FGF3	109.680532131035	120.984641102879	114.812254477058	113.832885222354
	118.679664392666	113.66416989856	111.66210002202	110.838647534175
	105.467761348787	110.784682137658	120.714981493593	110.392617179163
FGF4	123.943080151532	123.827771590213	116.112013454335	120.740986472733
	116.552626146967	118.117957479382	124.003914369077	124.411213807179
	122.133292722932	136.649743237542	125.739946257697	122.985117824212
FGF5	131.753135000312	138.275371291639	138.220016828327	134.235164622221
	131.510494315469	132.611864316181	138.381508741146	136.925645302362
	142.528480882047	133.040952285855	146.11669387238	132.978746105877
FGF6	125.863969666806	129.816385177336	118.47752077032	120.530092530622
	125.010266083832	119.730174479044	117.348231147283	122.371715108957
	127.774702462567	131.796941315992	137.154298404093	118.764650384561
FGF7	189.589053840976	241.453456707114	229.200570583629	166.917552275021
	146.814457904682	147.121049266117	130.092881020271	145.999823250463
	157.306022722324	128.549768412962	136.670253859184	131.404001006643
FGF8	122.418378964982	110.465934808915	111.975027473284	110.419222236698
	111.584425166104	108.415715678948	108.830525786872	111.985567835684
	131.525916493834	109.932577444858	122.519746599387	109.003365273337
FGF9	654.305724263754	567.869601934138	476.641032594868	294.871848467326
	162.100547394235	214.763232658841	220.098071755353	182.32514927211
	182.786177632757	192.980781927122	163.22480684222	177.091809538824
FGFBP1	135.497033143331	163.004844049672	121.961568081299	
	142.864294577585	137.80710149367	139.034940762344	149.073650082048
	140.115154069602	135.980886879513	4397.32311216672	171.880470629305
	132.206133020786			
FGFBP2	152.609055890822	153.273568880305	150.058160923921	
	137.386308389265	120.196595293401	116.369395555451	115.30786313391
	108.910588012315	113.321454160244	114.512028664352	120.864962392459
	109.438965262717			

FGFBP3	157.170136439095	132.113317893587	157.374537572779	
	152.371569700039	153.568321662387	164.276668889213	152.563532872898
	124.611144621071	147.865114383296	148.87242524521	148.082026641671
	180.456659320226			
FGFR1	150.845846206549	147.745780820004	158.73040336393	136.518409978222
	133.74051512341	129.566451901256	133.074027423549	119.815258991448
	127.125906877098	126.262349005661	120.748910864064	129.034770823878
FGFR1OP	132.602336133471	136.607783800741	137.426226808356	
	123.738223146912	193.428733288774	147.024759173313	152.983678871668
	132.062415660672	179.551640851353	174.962380276394	193.522811257085
	158.193008411967			
FGFR1OP2	338.129250886594	269.831616158113	351.759100605991	
	260.157440518033	243.589099648895	275.929414239664	274.627303114477
	256.614964511846	280.656087497806	365.82705202869	293.17183601265
	305.93974940209			
FGFR2	115.649568330705	112.884916986215	120.724926760252	106.470524594239
	114.01599035448	112.436972452838	116.670491972948	126.561067704708
	117.65847906412	116.397855001959	135.715745768179	107.40922161073
FGFR3	313.967636827811	568.701661112562	407.518324776453	225.362253409428
	1152.50523614436	1329.90419210779	5361.3600315322	1875.21979956596
	3734.705550862	6233.78489807054	4068.18567686753	5811.97916044218
FGFR4	160.469645948225	155.773639092819	118.567548265638	125.887854850942
	127.758381206968	121.572462089942	122.005340508177	118.100611964852
	121.316836274255	117.261443445891	128.781123194219	119.355650892262
FGFRL1	245.723316636363	210.353341004865	200.633009710701	
	209.279164243868	292.60467054075	166.071816427719	197.191648960563
	201.186963432715	200.810204162831	174.417259650516	160.945886507456
	175.010849510711			
FGG	122.438438464097	117.15886922795	129.216693566478	124.883575464443
	122.211000410541	121.886886059038	129.257947818865	138.348160604288
	123.315362903961	114.613368640356	117.820996523337	121.260355515095
FGGY	205.966111721195	202.691507273819	225.850439131864	170.553940654493
	295.330307669482	376.276954313674	243.468673768141	395.521241316058
	352.562711030848	252.548942594125	307.124331101976	362.306819797508
FGL1	152.872139211415	151.007812189859	150.132420238581	159.611551480901
	160.903342063542	155.194521954405	149.419308407564	159.207567680134
	151.089328533476	158.653161314597	159.854639082837	153.78976320015
FGL2	2107.99357083999	1643.08061372695	2486.24762158293	1060.24125879951
	192.140442881209	245.317436234586	256.424415389574	330.193132765826
	410.138738410101	254.63506290698	366.961565952239	249.80160363144
FGR	185.432587490792	187.881334544018	150.218643705925	165.908756485356
	184.008405576875	201.865955150869	216.680795762761	295.330307669482
	261.988345506548	218.134101819445	215.84044779962	304.547738011742
FH	1381.07447204233	1521.61996270758	1325.77498031227	1870.52504853779
	878.167149313285	1881.90353127141	1000.91520225219	1659.80909859514
	1142.09977159958	1233.99503576308	949.260897408911	1681.54485582868
FHAD1	152.385014030957	145.079450753969	150.549883779193	145.756455015309
	147.866011743792	143.681220324074	151.231685705236	137.286331849749
	148.859129298141	160.887121295848	146.184624424737	148.423303776817
FHDC1	162.895923745031	164.160608039304	131.319783710908	162.6762533989
	128.936628289974	191.937607311711	133.935910746769	172.686798187142
	191.725728813959	169.201608999937	184.204036882642	133.039045348692

FHIT	154.71904132098	175.693873820963	188.252507246148	161.424105316969
	223.765583953184	156.061579024549	168.124936529582	137.874370839801
	142.431979387165	133.602870982718	157.702540365469	160.265389854694
FHL1	8445.36695108418	5811.97916044218	5965.21815409254	5992.92384160188
	138.688881393504	205.966111721195	161.331326682743	195.645181575647
	260.642170838161	162.732574014686	150.439715066903	143.78994470501
FHL2	1111.47772523331	1078.41947691758	820.249910349431	862.132582849511
	1078.41947691758	725.065727257421	1094.67740173529	1334.69145271749
	3744.5666678861	976.360310504918	1816.3719976564	570.130804179186
FHL3	590.3584324045	667.892385395063	448.95671696823	759.802694618208
	280.033528476199	157.901967487277	169.852769679312	162.427505889157
	164.295628750438	250.676092725829	138.504398858454	212.147155923729
FHL5	126.87100632595	147.428180649939	118.505980204837	132.568354349687
	121.564626579011	122.305514440939	114.378420394004	132.243900762936
	133.502176289023	143.114384950467	128.191959554459	131.570358580547
FHOD1	282.076744753348	256.326661031361	187.167255451988	340.301980622308
	341.714401872192	202.369905673351	138.605661097886	171.229729917612
	181.578228610334	306.486275677467	194.903531690239	162.879707592164
FHOD3	607.26455470867	582.382786876656	480.484639351046	1034.68475089075
	153.929167381674	208.628626112623	283.048002376743	284.831817899986
	151.148295679242	156.976539870288	220.60173086462	227.614623963331
FIBCD1	138.242983316259	161.713311969291	168.254689624696	
	199.798533722581	157.189041157784	145.193296081527	147.322622473251
	161.37617568158	148.490236128772	172.387657419201	155.431833398023
	159.801315111886			
FIBIN	179.338652960181	153.850588492326	152.789338329505	150.555125135002
	126.256716138724	147.354535468933	140.125575976708	147.014513403704
	147.441650320053	142.997365080299	137.79714923769	148.32201986048
FIBP	300.83667045718	335.301103690781	261.988345506548	435.095843349921
	1010.23703166498	577.250493023431	500.643499051523	405.322847383739
	374.761007556839	488.505191823403	430.728137105601	433.405369327168
FICD	254.315783394932	235.063474370925	178.717719615544	252.171420358437
	202.343343669937	189.726075394359	199.980312703646	237.420951138877
	250.25959091612	204.057019122032	169.752525994991	178.606255846041
FIG4	319.223127076041	322.956882599715	332.296938254329	430.94199035855
	324.56043349882	365.650071660806	435.983803453746	323.667189206453
	381.808809625801	194.961531388323	394.35596596181	358.217145707718
FIGF	239.924227955313	201.337186768645	278.598913464804	259.826625866106
	137.824985884649	141.797497681512	136.248506185974	152.329129642988
	133.849237689264	147.272072245929	169.834078550805	128.608401533371
FIGLA	118.07991087231	122.603226380439	120.255081121925	114.325967923393
	108.669141498627	114.39161822971	114.400185930969	107.303126530947
	110.678680817471	110.428616140857	123.336074100984	120.054065939835
FIGN	122.992700222262	137.163699337032	147.400082178491	125.4408430419
	117.12833256636	124.63978985808	115.332409360957	130.953237161257
	112.661607612444	117.244895482991	139.209080672396	124.972772541334
FIGNL1	143.195338329759	132.149015697532	148.840533233712	
	132.297716337104	175.161742647546	204.161375686761	166.360005474414
	215.967319486874	189.174957940401	185.240692860387	151.449690439424
	195.630643168176			
FIGNL2	159.683695366575	138.667081004369	175.417320301614	
	134.676039394438	159.994376562272	180.986305037222	138.374092984164
	140.236618351922	161.331326682743	157.180095329946	169.552424961465
	161.806144472744			

FILIP1 1635.35544761095 769.34961339184 811.564396886535
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 146.094951139804
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 188.252507246148 226.144012966486 299.80615152845 159.504327477065
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 256.291984914927
 FIS 144.472969298036 146.321713521846 165.763459146818 144.110544384466
 142.527422462824 157.507108643575 146.40904127542 142.401333414583
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 FITM2 120.724926760252 123.231397809701 117.943511615792 107.531907287727
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 274.494074082359 210.392662092721 276.756415094228 183.708917501519
 238.724909152512 375.958347293549 253.933478547515 197.795275907042
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	267.149525812834	144.700955682048	221.127492253636	175.79375235478
	175.882911801581	170.251197850968	165.134931755194	179.25743545231
	187.625536724681			
FKBP2	354.405235378302	310.758803815671	371.457568934695	356.921627358141
	525.138476928759	429.992169596618	360.605223912114	299.616447269111
	344.128576341892	397.064325578854	360.361719991381	503.967725251906
FKBP3	428.959561932229	431.799795646414	487.993796425035	408.444629429553
	388.887050777137	386.679822751367	560.362502519639	569.47446215213
	365.286234166621	759.058176862524	699.06539333455	618.829716818725
FKBP4	373.860920943049	362.095074331893	425.59810308048	417.262521411065
	942.41077071058	529.700356666006	658.968318349334	875.38834441246
	983.777608766079	543.933989965705	662.958637409597	513.662594875431
FKBP5	661.545179083009	714.494228450456	1145.35733270036	691.632061537999
	333.049612399093	841.285351463894	380.664528809678	1142.44180956604
	499.176926371542	1823.53870218167	439.492285515997	346.303862540751
FKBP6	118.646119379542	109.156349683299	119.9652990395	114.27112025541
	127.512733134453	123.031945101045	111.409447323674	116.751145098777
	124.749727939593	118.792612926619	118.597739444445	127.524310543779
FKBP7	125.617143363441	123.809866652834	134.978785580693	127.729912390394
	125.865974180252	124.491884305455	126.588382665802	129.806104966617
	122.517559025268	119.451099896048	117.517649866653	122.472909598385
FKBP8	183.193029399643	226.989201461085	170.198508633417	244.514230664694
	235.063474370925	165.062129636008	162.536009333787	153.756213924949
	161.646807806182	162.536009333787	249.234065130083	173.035013611377
FKBP9	147.15764785567	131.319783710908	137.000868503792	143.705475208192
	158.06915048955	147.442483242063	141.275667354541	141.970301370404
	137.773960847088	136.450062043587	138.150616787218	142.336164180947
FKBP9L	1084.10984365393	867.369315017411	783.991448771818	
	881.561688713557	375.767528676937	417.987533397449	631.653707589221
	397.577760464197	335.623336587396	717.025533065694	524.245387973163
	621.946994961864			
FKBPL	143.31117188259	154.546460872415	157.723341862468	155.478383896934
	193.218266574099	171.731395791818	167.370030272847	173.056715623574
	155.494095135266	162.127697884504	167.206513789165	175.93459327917
FKRP	215.950811436427	250.406775889932	190.152824885328	293.528601172819
	249.379605914827	177.235586767256	203.089661928125	185.617936412633
	223.359785518285	210.218440444631	202.909188070184	159.620467672898
FKSG2	109.635825046436	110.847680175669	118.239637776941	99.0767996209245
	131.12775424877	114.841964705981	108.461141538047	102.563722570171
	102.725375719353	112.07238018581	108.939608619532	116.142650095476
FKSG29	151.451443480833	147.978039160763	152.042744996136	
	155.379116566097	145.601922576321	134.239416179248	140.934144636302
	141.048882618651	151.188412354358	154.774977482202	141.970301370404
	138.820797333519			
FKSG30	3309.66193624859	3195.71436046397	4929.26915002209	
	4081.13406129846	1914.96285167893	1038.34611017219	2249.8123426309
	1405.2134783352	1245.47421607111	4477.54806526552	1827.03179366146
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FMO2	208.270622752385	232.892635502424	267.839640412797	296.603054615145
	156.085949215738	180.478294414245	157.08300736206	171.238423077347
	165.613274361543	165.808660192901	172.091884817207	165.992542962911
FMO3	153.047317528007	150.354401669138	136.470025638057	130.539632182729
	119.9652990395	134.17351030102	128.030938693369	145.440471538068
	151.266352916239	145.03221570575	136.313623567821	145.172776053
FMO4	143.333211390741	154.594339065082	132.70109232982	145.442914818456
	148.635174393031	128.054394154801	144.413210364148	147.891442774921
	163.709174813901	144.119035360928	165.103398617203	157.192320902906
FMO5	145.542888937635	160.752581271996	142.354731066206	143.438417529799
	179.067275037015	182.929326147069	186.377571176623	173.044636575826
	199.991077347491	146.604519441812	162.127697884504	153.528429414138
FMO6P	131.866599432062	146.084461430546	135.499195435803	137.58025011566
	135.116985816353	140.922678400415	134.335309757663	136.682172321984
	133.52271411034	131.633827974141	155.993849743656	129.420716653358
FMO9P	158.670835881902	286.818166898922	226.712995229189	192.59376129133
	1032.4540300024	1033.48252432603	836.613819700658	4711.21389812942
	1812.07394646463	189.840366340622	623.508710830895	344.247544510881
FMOD	643.13571432061	449.859227376918	296.428342247529	394.73732350607
	173.463983140514	173.109461200603	148.23392074197	174.214747421898
	229.046153362151	258.868119227979	165.938009275308	163.922353493317
FMR1	118.355532305846	129.233595525585	110.138220982557	121.429270259367
	114.696935316053	108.036254606246	127.213640193364	121.067907968175
	129.372522073479	109.680532131035	138.058404474114	121.121686280797
FMR1NB	119.525701528869	117.467618148107	120.93965087814	
	115.840266274696	124.791221329502	123.510413258172	118.9952230535
	116.796995589816	116.053859681399	117.47631318854	116.621735695217
	115.16087297104			
FN1	153.748035612441	137.345542507421	165.789846154721	141.408545519654
	130.973504803813	131.252368756892	132.629453540571	133.257477196196
	130.314247368361	147.135640862542	129.664016819143	119.666650919579

FN3K	134.825699448987	133.504078347324	134.71514094826	127.706499722854
	123.9209907098	120.53428198263	123.129785564258	127.962546712222
	128.662680062294	133.711821318079	161.417207801991	133.439077726411
FN3KRP	774.442392607873	744.225336494008	1222.59895569348	
	764.493610798958	684.180060287047	1080.02576143033	1248.69137283095
	1296.10827265334	1214.77298621465	1896.69856822105	663.214972254236
	1249.89496565284			
FNBP1	6138.10904830456	6919.4226838505	6253.84268792816	8982.75408120297
	539.853394831917	268.568824794145	420.160939829121	644.301665020526
	907.610179738644	691.397238677552	550.124359517322	303.638516587721
FNBP1L	249.554443204445	284.13865992802	213.484986945295	
	234.301520483864	421.384700184923	850.882404546093	667.421612441201
	815.779445689417	608.611927946607	388.966303073519	632.565736446505
	529.368609163949			
FNBP4	1344.1288416533	941.936830901588	1373.67062432073	900.039744829725
	409.691865300362	1117.77397620221	1480.52638217173	2255.92551080483
	1093.21579738952	894.734451279225	1447.07989164988	955.604404066769
FNDC1	140.57567768682	137.354782768068	115.180659017144	121.480455781173
	121.434713764246	116.736174147084	119.511962218143	117.144778357339
	132.369872013432	164.665907233149	113.87024833117	113.845770994796
FNDC3A	276.184421402511	277.314675225943	309.658122422202	
	244.011434605133	186.309367281625	294.115163083721	147.07272598888
	228.542423012958	245.723316636363	227.668046559074	306.43742010208
	390.979822976551			
FNDC3B	861.119262963015	773.330948077036	675.281131488524	
	574.779350011402	613.631311147328	787.874585290601	1324.56751399862
	786.160002434066	868.066644155313	692.095005197252	882.037055216609
	1085.38819961412			
FNDC4	204.584643964409	217.353396632732	201.105520537151	204.990512488181
	192.932285494022	198.257497903131	213.531307836195	181.85552254233
	186.345823604119	193.008902902654	153.336395746742	176.198555355383
FNDC5	411.451612988791	316.801725268792	357.514919818489	554.950092776254
	299.935166870211	158.92538634742	158.049286838471	171.528350399075
	141.189008902155	139.089444892187	144.046646189442	151.989476683722
FNDC7	144.342905860503	151.613134875009	139.792313018728	149.995272585012
	129.143168240589	146.434716985396	149.173121214851	123.603972078897
	150.163801964104	150.601874392926	146.087596132093	135.670409501435
FNDC8	118.201092260839	113.66416989856	116.20008794813	115.890431424899
	116.597352307016	117.511162285879	115.559551514777	117.837894438834
	114.421383025971	115.587874563785	131.038758046782	108.101686347192
FNIP1	240.878804911613	249.823314327355	318.930960243303	237.216435972201
	167.521700144143	208.507486041165	269.853718252574	193.084818760857
	175.908645445479	363.777212750779	177.091809538824	245.723316636363
FNIP2	242.269784551092	220.330477277988	249.823314327355	207.960802948119
	141.850952191423	141.758827837244	178.684992551017	179.810507975486
	170.54511631708	210.751430486845	177.812335593522	179.358460170348
FNTA	460.408628542721	422.12964420709	616.014975366684	401.102586700919
	660.096727566678	1245.47421607111	717.686676823785	647.439372562271
	401.584032365337	901.644194512187	698.590134238302	658.47864958685
FNTB	347.73629731446	315.963526790659	392.824840252824	374.872358131797
	311.269750643358	257.408058436941	363.777212750779	309.658122422202
	328.60529053804	357.773949920377	309.423768054614	274.235001739215

FOLH1	127.358616953147	127.856634523494	117.045020667394	115.944280729914
	117.112667504781	119.562180492359	121.360822445187	118.457573670556
	119.060186838239	127.144291519133	138.733717670748	119.95959059725
FOLH1B	134.664652044646	137.252742673245	146.050714008913	
	146.787927492706	162.244691888031	150.079372712689	140.796641921516
	145.928643520352	151.727603285205	153.440952021924	133.882126180703
	160.113042196058			
FOLR1	131.715579653796	140.105675520432	134.963301368391	136.60514429355
	137.581659385375	130.539632182729	137.017882995262	128.377928524315
	133.692996980809	134.410706628655	132.283682066898	129.033433971346
FOLR2	197.687858915757	169.408892048115	136.194082458655	174.491551019128
	204.942500423413	160.127254444487	144.675182563174	166.396160626179
	222.624150073858	158.758500675009	199.579818754014	166.9499656083
FOLR3	130.105800581241	127.500754400224	121.71538073735	117.212164526913
	132.780055030907	129.077660633761	115.343251487944	122.351186755611
	115.594489123676	242.848821222611	152.272198017355	129.806104966617
FOLR4	136.93893152919	138.29167712246	142.403121638265	136.603035996281
	139.138329217724	137.093170378295	136.507961715591	143.188958538221
	137.391141254051	145.832751296646	134.436423298225	139.679681813932
FOS	1710.60409578293	3954.24763752814	3976.40140405628	1622.17491781572
	674.742955681908	6188.04738762584	780.105135529728	2932.64120183406
	437.248311551717	6830.46932926077	1762.09874961415	2244.6916226146
FOSB	1125.95664591686	2004.19532096239	976.050097371579	559.0867397858
	282.244214637625	6253.84268792816	142.42442972908	1295.27257578314
	231.981501596284	2242.73511149559	179.94333102877	433.594928641214
FOSL1	166.533191390639	153.758353103323	181.308852106289	167.941671074236
	222.508914765788	217.491746961471	160.382971629272	169.158049136321
	164.962201718762	369.070376276471	163.125317704446	190.45739385453
FOSL2	233.842749683689	213.097664319741	204.942500423413	215.037122365095
	400.23671843715	306.111172289632	264.526189799049	257.292125083248
	221.070448906398	355.372836460906	274.316982298975	199.96834355685
FOXA1	144.051468970593	374.9555524303	188.348499229585	124.368438691944
	3737.57754066891	2530.00219297102	2416.49806112207	2639.60135568
	2532.82545752082	179.321622114583	2515.7035557541	3000.46298223166
FOXA2	124.49814598066	123.841366760069	120.106270603148	118.034262386827
	119.06600048679	130.563756903074	124.625603721372	121.124574985464
	119.873844587252	119.830261862805	119.192893408873	127.373421694142
FOXA3	120.177385114315	131.87404363664	117.097159106043	120.14201542563
	145.534520042669	108.483284007316	116.831725094917	112.252555403121
	122.329290563769	118.761737418652	119.968081249475	120.397683153445
FOXB1	122.578170988039	131.573729430926	132.028327486943	119.83679981791
	126.938068475032	127.997280639609	127.239282651919	128.155080148958
	123.330142002791	134.56314960832	120.511896155396	130.06441029462
FOXB2	118.727279917776	125.892022613725	126.473768158566	119.32696696175
	125.932540615682	114.818898581401	117.992729826121	122.97229333908
	118.544870925791	115.713909155043	123.752109790056	118.601228886344
FOXC1	430.728137105601	934.546444634669	325.387193207414	467.04976953755
	1095.52349352502	951.371815352591	2203.82462320864	2240.33212242003
	717.886050056576	1177.01310527577	1336.75600604068	2390.41825815872
FOXC2	193.04138438685	181.238505183667	203.389294254141	217.513118676535
	139.313456284725	134.243435358729	127.913463809158	143.519786615253
	139.948097704949	131.241878941749	142.993401965852	126.290840923683

FOXD1 135.504526903482 144.892454033336 110.368392735494 140.911080286243
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140.664303738113 308.974786799114 132.634538733205 134.17351030102
FOXD2 166.741762854246 170.807514224412 148.130993521745 155.40832015652
156.456332386608 165.896420029269 220.9384439772 183.879114762264
155.237180851323 158.886786960196 183.83720937589 192.61436632814
FOXD3 122.472909598385 129.532122459128 118.712730897987 130.031303483631
116.540729581355 113.018985316061 120.873985900666 113.427848757112
114.265920150451 124.96926662367 111.1002996982 111.577400298092
FOXD4 141.329559699056 139.674001912099 136.135223482208 129.758303592589
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211.941623411369 137.084488743415 185.332215198617 155.061749542085
FOXD4L1 153.176268095608 152.628220216104 152.461930328923
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177.752497164503 164.701183249762 164.241874094897 171.714973501563
158.928949614338
FOXD4L5 127.6516565653 123.81177057082 154.617462666847
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FOXD4L6 131.892151111901 138.127899706873 131.558842131826
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FOXE3 121.515872228716 124.847325289068 120.300291760091 123.260800590266
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127.818137805569 121.377666938052 131.709341771599 126.784243009941
FOXF1 1265.88446775977 1389.93393245455 889.054356462993 1191.26028342929
141.941814923705 177.696849418064 124.738217731488 155.603263242813
167.536828038178 141.305605155722 172.667770359278 150.399313562031
FOXF2 288.596513753617 261.592512762969 167.447964370395 131.023892409073
128.651081092914 165.131463797217 207.269530621176 160.898061905021
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FOXG1 168.323141675824 133.692025039613 145.924751649542 131.298129667973
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119.370219299491 148.763098715961 143.825062714273 145.610045243277
FOXH1 126.614876404146 142.301581642006 134.237133546276 144.219104742099
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FOXI1	129.242093568433	129.213523302268	145.463105638655	135.852591930882
	133.864612785572	130.430917518283	128.541715437188	136.611670766233
	126.988118823204	131.500591219916	143.53550972177	132.881693683384
FOXI2	143.204058393718	147.863198012238	129.96280577492	148.551340840517
	151.169283505727	141.561769570516	133.775716376056	135.899595115146
	151.132586978278	136.948039394935	134.160100276452	160.880152014981
FOXI3	161.115842628581	155.46017572591	170.646233722767	148.356726939122
	164.529828080312	150.557982810339	156.720090761933	163.542848861552
	145.233055765001	161.046418048832	172.583615020042	170.306241656131
FOXJ1	118.833188167696	132.197941566244	126.780096523484	125.176747824384
	498.641091757363	315.3930052781	115.16087297104	145.136075215082
	132.883408554592	119.931415360373	139.036978052242	127.713286292101
FOXJ2	1581.06548216423	1812.07394646463	1569.13457493554	2244.6916226146
	566.914448800423	667.421612441201	719.766799746895	952.357976050712
	598.095370768587	728.485195792194	549.460612060753	630.894382644903
FOXJ3	1091.12493937368	1070.4597488302	805.875557314697	1080.42884514937
	743.510369438587	732.630306104841	896.185223980593	778.846928848361
	775.382397816601	690.582550537485	767.054576874115	750.10819423982
FOXK1	284.321253087512	358.298768623212	358.298768623212	473.73182675469
	418.889972660958	199.135932984641	281.037762232619	271.196028302639
	249.263194321516	245.607130404306	336.490076158135	332.978350226738
FOXK2	143.265532486512	133.41548225025	135.16316100494	139.536677895126
	138.246963115014	152.725025539491	157.446725405803	157.457468761338
	142.579346058088	149.595375008252	141.275667354541	156.62031503525
FOXL1	147.882530392424	139.273651128094	139.034940762344	137.339511714364
	129.247701136266	144.895601314903	141.091421265404	141.649911527714
	128.245734702114	143.799113486767	144.876300850115	152.274957846518
FOXL2	134.700543462375	136.03117924052	149.44520146627	146.162330544539
	139.923187410488	142.771243742561	139.057572927874	140.397184813186
	150.098708715617	142.12808103815	133.594446233378	141.907307422968
FOXM1	164.959415532174	152.360670942951	149.350630572336	171.689722533849
	399.071041584646	224.497348027469	190.645917992472	240.465165615601
	243.65518489122	186.563913311757	167.55209828062	202.357989894268
FOXN1	121.497645719165	141.216869032251	133.672964925321	137.546487338984
	117.186546702764	128.947211021681	122.053867525393	137.936605651724
	128.478724185042	134.10707191601	117.716094828779	131.305785417254
FOXN2	638.129080224049	631.408955630318	658.202765061937	560.602047253306
	487.993796425035	606.851072672402	437.248311551717	544.462032960964
	349.540558521616	587.893636997642	378.862741410359	372.088129459528
FOXN3	140.416247564103	134.222453538421	139.650726173186	133.839554874862
	130.083266044947	142.334338599752	143.195338329759	130.646956516128
	142.376921410427	138.250288796456	134.102929804129	136.861019517134
FOXN4	123.877609932461	134.268075583733	124.121555438466	127.139903623331
	126.737230874367	130.520275539672	131.447941902406	160.778296470857
	121.239461514704	121.968807253639	125.828998007608	117.696262292883
FOXO1	674.101599637653	646.461274173693	669.602939159192	764.137504481329
	289.517820913799	422.973606694449	332.082749517913	419.690542859168
	329.023836559229	560.602047253306	529.963453165714	571.273512452931
FOXO3	1040.73829397913	1096.10636044885	867.601542930533	795.720196538039
	428.66614441422	687.789976218334	730.988069115919	600.264940641426
	428.237210115667	1003.93455977232	532.950400370668	358.975346234854
FOXO4	1109.79571066685	1179.42590997099	1487.12201643008	1382.12750708801
	506.165100641525	532.786041960586	518.478990211753	374.718289636553
	784.72162514331	291.616195651001	429.992169596618	279.325065941252

FOXO6	146.748572532267	143.149424892482	159.016247993816	153.19516365535
	129.442111153737	146.912751127571	140.120051507626	141.038721816572
	130.249430984172	142.169951083733	134.477081392474	126.080780033301
FOXP1	318.690043546203	292.693830444839	248.594000664466	329.023836559229
	197.815264620906	195.414464905232	199.077893147154	166.795671029174
	184.923312649584	155.70645844794	215.194909819764	184.462286724102
FOXP2	177.639351778834	154.300058278533	192.095235288818	149.788558681761
	153.206468539619	135.274205069488	149.552704503066	139.955389033983
	143.452992974333	138.456465793474	133.427561208907	139.234549949916
FOXP3	119.608334527504	124.83124879272	133.143695166498	123.07559417607
	139.31967261371	142.700311964178	137.199718376452	134.4380641709
	129.502730573463	141.213588194832	137.340844554597	115.01682934323
FOXP4	132.626349611404	131.604121223902	136.394920983439	133.037138438863
	136.973804637915	146.34029698108	144.861804210272	136.349603320553
	139.60494712939	135.531326977319	147.799806976046	145.210787864362
FOXQ1	538.484170364629	1346.53215685106	965.673699120049	194.979795724712
	870.409935772423	3664.38955037715	4929.26915002209	4206.37667440908
	2886.92690692502	871.913035811066	4030.42725798136	6470.73189429877
FOXR1	144.64757514198	144.972694558182	142.421913396368	147.1476865809
	138.934516083124	142.581441480371	149.147411595596	152.407614042236
	146.624631389743	134.296645422941	137.220718873614	139.491769969541
FOXR2	119.062611098235	114.520066232155	115.855948612544	122.27785621724
	105.348008821162	111.484426481816	120.565485864499	105.952640312359
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FOXRED1	337.728737393381	413.398641688413	338.665115108128	
	553.90008440429	890.810315261602	324.871248300476	274.14931964455
	516.088776850623	297.609793563225	252.628516068724	238.978845152474
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FOXRED2	231.47915227815	228.852495818211	226.114369645703	
	230.855806094267	389.500591134279	298.706655333472	269.981476129439
	250.963601187362	228.184535093641	178.035700298977	190.291185322482
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FOXSI	150.924948809354	162.638805580226	146.919110530891	181.340312140534
	158.953705937936	127.199124606827	121.330383384978	138.003440266411
	131.031639119149	132.596941171401	148.376194044247	137.823152565933
FPGS	128.213678179359	128.576310682958	131.287142490322	128.389494971858
	140.981666934622	128.814967091609	125.154784284706	127.961153369579
	132.8615886934	130.09050436943	143.814798097425	140.435724944447
FPGT	118.578205738502	132.475414208533	125.887854850942	119.125002207396
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	122.863612588759	124.263901299025	114.223991452083	118.276198592775
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	165.389652763451	212.607094117882	166.925695810781	240.005943851098
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FRAP1	565.509446660206	491.112594297928	536.805979562807	536.805979562807
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	158.208998509937	140.553613300431	188.242091666446	157.565633456909
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FREM2	145.476377346532	144.190203286506	131.917194849285	138.242983316259
	174.615694779386	194.529045934216	142.474762834848	169.881866987359
	202.300293733922	134.381042390464	184.462286724102	144.258128917228
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	128.580625868379	115.664551127497	121.803676441059	118.015175851934
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FRG1B	147.288282361079	142.524413202292	133.252140649104	126.452500728601
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FRG2	115.896463925125	129.203236898198	123.61956613951	128.368669716591
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FRG2B	139.484551562098	137.975369568585	133.862203806529	144.316475814221
	143.837402372008	146.920496801962	127.893555451807	138.038446102921
	136.131453703981	138.836422729663	130.182320154521	143.954908055924
FRG2C	147.994386096925	129.642952083513	150.367927843529	133.399632102473
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FRMD1	94.3531468700382	104.798333931019	112.832122823829	105.976284291356
	109.700513642061	111.810575716678	111.860763079995	109.760525674874
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	187.920789153124	219.753039699136	159.344044864557	162.634670715627
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	122.749182465923	127.824005374202	128.78647242525	131.973896985615
FRMD6	497.53605530806	418.163219634152	480.36420271348	445.763740779039
	230.947339143332	337.652945958921	336.981561928411	282.963958072528
	196.144420005021	725.065727257421	446.509863498357	474.917507160629
FRMD7	137.11719450122	123.129785564258	145.749887769807	135.046003135933
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FRMD8	343.200277800027	410.216584967666	385.135014083686	457.905741500454
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FRMPD2	125.410876867635	120.549643584553	124.602474178438	
	126.715300671036	129.222714748528	128.300838927918	128.986795394842
	125.202468372015	126.103561089901	128.113966507586	127.781732819297
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FRMPD2L1	121.138461509096	130.882463936853	141.588478913204	
	136.008118769513	122.362585067453	129.77374228644	130.34939602913
	130.471929699923	133.028789808654	127.829001155781	140.882766779119
	136.106596229215			
FRMPD2L2	119.451099896048	126.277165320165	126.762116571216	
	121.687187898743	125.172189715764	121.059923601223	122.646850766733
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	131.261903118177	190.427022049167	164.784346867158	187.057683141644
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FRMPD4	125.489777118532	126.191057198995	127.562924931536	
	127.473812381059	132.005753222789	126.279119798177	124.717079082023
	123.327238774943	125.531371673679	125.531371673679	153.310330832285
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FRRS1	142.958906063186	156.351734527745	158.495606141226	154.951136632863
	170.410704499804	169.271175460047	212.591357254196	189.250846546817
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	133.550008967009	147.920946479942	136.152827218905	152.097609803404
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FRY	191.467626362851	178.89423690001	232.414763435965	154.993784224548
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	221.253717494488	368.418553384965	157.75304980664	266.652805624826
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F SBP	158.053654524927	168.547575047205	197.687858915757	166.671563123047
	166.64535048582	161.499923812379	169.920799931309	155.114892891737
	172.8993416872	139.310309748986	155.488346781292	166.611809859059
F SCB	164.89597889259	159.730925830278	195.384273821324	171.602950766191
	151.845172175463	158.841505957036	154.079355899056	140.477307701027
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F SCN1	1382.95068105649	1632.84261181074	639.184296110069	1561.10217536347
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F SCN2	130.824958143557	132.177829138863	116.751145098777	119.567911704298
	127.255966406144	123.048352070915	119.188446525733	113.582654469735
	118.593717189375	123.104790590045	118.26427946535	111.086170834553
F SCN3	136.85323853426	151.532859494021	133.483766053954	152.379441401583
	154.746081871718	145.71535210212	136.657107363796	165.342790388607
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F SD1	134.449083873514	137.537197575152	138.12651823109	139.949563856936
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F SD1CL	114.849872458647	120.660349211375	113.636570490048	
	119.590540166384	114.749597426757	111.381427322188	106.030441145334
	110.113844434493	117.428152859221	126.00304757051	130.340819826224
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F SD1L	129.327645260099	137.546487338984	137.398748156909	131.093917654245
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	144.116298946718	137.681280789305	142.45411401883	153.308956040034
F SD2	126.853028093579	120.220156455352	131.85737847837	118.66946078241
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	125.761205967344	111.765812595638	123.56917054142	115.427201752401
F SHB	124.222529964098	138.349773531218	117.766156390814	118.694037994926
	126.834926242799	126.404523759643	123.351112976814	121.107979534361
	120.406577236405	124.070171664904	126.492058851464	118.75237770613
F SHR	112.65454329872	110.355493122568	115.687997771921	108.461141538047
	112.476111928742	113.769815606191	113.644993086829	108.779204939177
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F SIP1	174.680918805036	150.211719786127	158.573561336755	161.010206405916
	157.295602588814	154.969503835593	194.312315077985	184.267958772058
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F SIP2	139.510764003291	136.265972909993	146.29600238749	134.793399942417
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F ST	200.387623661458	252.404931238338	137.700110923212	145.476377346532
	133.353762794271	150.105503384881	141.70123350351	136.303510503231
	136.648306684974	305.906480933354	176.890596690798	145.318539677981
F STL1	2760.57475805426	2162.46602203822	2217.82628612929	2756.22069438696
	398.571054759451	498.965895763801	270.973600107882	384.216141843863
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F STL3	621.173315178959	348.808646570544	219.246271924313	345.832589037442
	177.93138555339	125.35643274458	180.63469438043	155.228605554943
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FSTL4	143.546629073997	147.446381217887	146.26936366452	149.160808104789
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	151.55925331302	131.928871107722	138.899292894875	150.870830294349
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	109.669517182289	115.128667174745	122.075440298074	104.826135297161
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	130.238231520218	133.412452607155	124.053190169486	122.405469833024
FTH1	1353.61552261489	1200.03423010236	1846.61430264854	1113.05943954513
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	795.037968409957	1332.11815966955	1160.78730097715	889.26314145856
FTHL11	3765.25491426198	3855.33040541264	4016.35381420598	
	3417.22292085668	4979.31150268741	3177.80599774525	6522.27232911897
	3315.21586182496	2767.77385345718	3721.86725798812	4448.67183518984
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	6470.73189429877	11777.9172529698	6296.24208225227	13976.0448927093
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FTHL16	7539.6945050098	8163.29201165065	9970.08052783908	
	7491.93659373205	13190.4826009741	9793.92604780228	12406.7143043992
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	126.578035793406	134.850260739685	147.15999706579	132.686915065196
	126.704076078563			
FTHL19	132.310147451479	113.740942665269	118.646119379542	
	120.473038066927	125.293640452686	127.075899925865	120.15332480712
	117.740022708444	118.655954393594	105.583474813289	119.972337070176
	115.678486138934			
FTHL2	2882.51330563735	2684.69013589621	3149.26998719015	2459.05558915812
	4150.8511719558	2466.36457617864	5040.35379681644	2344.11548437508
	2048.13524244516	2819.92361643968	2992.18604022433	2311.05587511258
FTHL3	2093.67403119512	2141.855356411	2305.11856249143	1800.25771851544
	3481.90072759183	1466.08446530283	3727.70199176703	1477.10828981572
	1307.19490564658	1695.26858186096	1704.25279485563	1452.63736288691
FTHL7	5776.63686968234	5314.0635307876	7573.69742026367	5233.72882607795
	10360.162704111	7815.98936145067	10862.3952192141	8416.19700892758
	7354.94071109106	8401.40370474392	5281.353685715	7539.6945050098
FTHL8	3481.90072759183	3560.23794634993	4291.1724030909	2672.77147589342
	4866.98027226798	3424.65126200697	7446.59106452583	3447.19587767281
	3195.71436046397	4612.81760689869	3850.41246770812	3447.19587767281
FTL	20381.3859535625	19661.6741558107	21754.9904891312	20887.0399135573
	29868.1819370827	15851.5830405813	29532.7890259497	21551.9994556128
	29162.1093037754	28730.9248954575	13423.8921651885	9560.32907282993
FTMT	154.904424749528	139.927773713324	140.696326952077	142.480203661104
	145.114382599368	156.411563412665	169.107948050094	150.156865995098
	149.813838004575	142.296446144179	135.556943919872	141.191500203423
FTO	281.926552464214	300.401370666633	299.106362530855	310.026522549372
	189.647009287524	155.890403934674	199.135932984641	152.791390145148
	171.028432989066	185.519000961898	183.937484597232	182.235490620172

FTSJ1	183.493455947795	190.444387031552	194.445463745418	168.33854702953
	234.841813258798	293.317880637519	229.046153362151	290.502085667398
	216.485113690708	294.069353373633	263.204269632206	229.200570583629
FTSJ2	177.630246034993	173.624709850889	165.954266127697	177.401771322485
	207.560911665319	175.236826554583	218.058543664561	225.130011390856
	228.879434668972	174.012972901793	247.280717385562	268.961643716282
FTSJ3	214.8478629277	227.441436540742	237.216435972201	254.393421265604
	257.408058436941	227.884445686928	251.011148303246	280.595515386655
	246.263259852067	214.019190624184	231.338258067616	245.915473236403
FTSJD1	176.689683169567	173.416999972133	178.766654213173	
	149.974080577906	203.389294254141	279.879377933144	249.379605914827
	259.625943627223	250.481442411876	228.243668453958	276.32528705384
	272.994195639694			
FTSJD2	452.606433325387	451.621888586656	414.538237455116	
	554.652979820908	432.174413144791	382.806570442504	399.476401949891
	282.392419584508	346.356312668445	342.769825986756	374.215345412947
	299.390443444504			
FUBP1	138.882483367088	138.944595164363	126.168223112165	131.414690782328
	181.85552254233	145.148058824491	151.178586065066	174.66966623557
	169.927157878764	164.057147728625	175.693873820963	177.72965427263
FUBP3	444.374521095495	395.327097512479	535.758943850734	392.282956362735
	310.8725368426	316.801725268792	320.390351199433	334.916875239616
	444.374521095495	472.030150842569	301.304268871606	355.714202328378
FUCA1	562.543347322063	591.437752991512	635.038752622494	415.749051861123
	1360.24752587939	1364.1224589383	2430.70635781622	2337.64145466514
	1562.9779683714	772.399017166118	3354.38704439295	2427.21100330388
FUCA2	215.143973502566	208.983138060317	222.177290763736	188.166168428752
	407.244564912365	323.20628717764	305.451247405518	299.039192744355
	280.170464338141	274.371523790341	356.323554000768	378.920456227378
FUK	316.125364442611	328.680312364877	334.443733461841	394.414934831535
	1277.0921553877	326.379855547052	447.182566890086	346.411586524655
	463.298781071364	321.492900106953	472.030150842569	309.997909440664
FUNDC1	248.594000664466	266.252875242286	290.541184606565	
	279.704940529618	490.153210371094	527.226517960073	544.852019338212
	671.821418586421	377.353441970543	353.674560414317	537.510539142248
	621.825622897512			
FUNDC2	132.454025879177	130.790872334222	129.949894903048	
	133.601133679159	136.695790688466	125.013839352291	121.231939494619
	116.421771593211	143.94902198632	130.624702758052	152.241060990474
	118.757973008463			
FURIN	190.45739385453	201.480444219547	170.54511631708	202.662466141301
	401.359711029934	186.6902304653	289.911635155481	168.547575047205
	216.929969034881	203.335012796883	254.83131041241	221.961758403614
FUS	166.635366968851	184.915526626619	160.395053149199	179.785198362326
	178.377461551319	153.784923783551	176.641899861006	151.540744107423
	164.244562778996	178.130223302924	194.637233028442	189.192494970145
FUSSEL18	153.328585916625	131.782007636511	152.624623171797	
	143.801139839773	144.902807664593	127.542288885184	156.324643994552
	125.280736217267	133.602870982718	132.454025879177	137.854873498783
	132.692027897739			
FUT1	109.781334128478	116.011005504201	111.497241941203	128.074531806621
	135.864853829421	128.505296338657	114.504409331018	107.930325780047
	125.321968563987	125.674471551099	126.17342715006	119.198789189881

FUT10	136.730623822061	136.692495869097	130.844272373448	130.270184521521
	127.631770516132	136.258073395013	131.22473774325	130.721987260546
	127.259038241163	142.082257952004	133.502176289023	141.801472885127
FUT11	151.546908501054	140.005968571997	157.233463720262	146.332425559689
	146.706846930708	149.949425756405	194.569325586241	157.070500065037
	166.071816427719	250.406775889932	199.305626149918	157.361421272816
FUT2	150.538541347453	132.016944935305	150.741291526753	144.013615296685
	130.142263689536	139.969155812688	153.231965895778	134.849235750248
	170.069291215013	226.824313642101	147.943844184702	128.860744370967
FUT3	137.601181150371	154.816213491233	120.473038066927	131.838522109796
	338.406266073063	153.741061283101	210.14307111352	173.690008681514
	203.704734790602	386.738154577763	226.221973502783	488.57622466019
FUT4	188.070213212057	188.027848008991	190.031339775209	159.384480972135
	182.439945229388	142.719216118914	135.968346417524	161.021740537372
	176.725347194807	135.68605915552	135.399032687551	147.579672274205
FUT5	122.170662903259	112.38543517651	111.820208385514	112.809629077555
	123.089110282465	102.563722570171	109.416512252532	114.042914237667
	114.428050500096	119.391213033544	133.507865919719	127.58382536792
FUT6	257.292125083248	256.687384001447	249.80160363144	269.072221443403
	145.06736850005	212.107842040568	167.278879415171	193.261343922604
	184.709768457405	178.696562301918	200.365899129972	257.740674565975
FUT7	118.047978285706	123.53212786736	126.332299789266	133.063422581428
	140.002249873656	127.622397233692	116.136849683574	118.308102542942
	121.855752708908	136.879615833565	158.374760929273	117.461198576063
FUT8	218.839681873515	183.583432296209	163.463191619941	147.019460117987
	169.909886347082	163.106823691633	157.709832297666	170.720018572735
	139.153897381147	134.97514790642	152.194337248455	147.915337223934
FUT9	130.262411213764	137.473779155388	150.606329295069	138.434347257063
	157.028963417138	178.847858667374	151.613134875009	163.438043894189
	171.221972336784	135.92712081285	164.116142541038	153.041407358576
FUZ	166.22013573342	181.578228610334	171.36717256867	184.873459141947
	222.675370226786	161.688125121941	195.532022060219	171.11282933168
	190.572712684622	149.684922983176	157.944355564411	153.82440233533
FVT1	1185.70008959602	1095.52349352502	1303.33810980467	823.658996207582
	493.887026009442	654.663838918786	683.470866056244	622.834462068316
	624.638115878703	754.607039665508	768.334658920971	644.449861831749
FXC1	192.827534610486	209.662262708551	271.238736772408	194.961531388323
	183.764215745794	180.179981672095	212.291528248457	181.971189935628
	195.033792280119	206.340478393262	191.029458520006	212.607094117882
FXN	127.74861041569	136.280653079814	136.428826558493	131.693274981709
	129.094667159621	131.364187047583	125.908576249439	137.940675746397
	125.738320262644	147.405050592353	135.192181609947	141.670426206169
FXR1	583.938727139698	507.137104111742	715.93836911426	468.82816089485
	296.051639873628	407.615019710707	548.288640768746	506.659740456829
	480.797281489891	586.246004571452	461.940616438547	412.277592266475
FXR2	279.232290927348	316.722160860531	315.752980521266	312.286788541158
	298.706655333472	284.473085899219	202.622747952763	223.89854167651
	190.645917992472	252.894371238554	372.374101464689	189.2642795052
FXYD1	301.908667220208	287.83303360511	235.961605948276	277.026538720417
	129.294026995663	139.049085468313	132.645196037302	128.525769531728
	148.012353232918	131.356437247149	152.746799687103	137.360220389719
FXYD2	128.729687597908	123.386622160181	134.367115858307	129.918038866006
	130.169291786693	127.938245853896	123.24533179875	124.33863635868
	123.395897439193	125.746184969983	134.407776033032	130.829825154842

FXYD3	138.252656818036	146.506263412584	131.436176224725	127.471479301983
	311.449205777595	437.489929507567	910.982557417978	789.752781067888
	722.725186727796	348.067061666237	1025.88559245013	637.695341427976
FXYD4	121.215558351076	126.724973604103	108.818976813708	114.209249333221
	180.035652063942	131.037491961571	122.770033312519	721.31849915135
	333.439929772897	120.85013281321	174.296028319781	132.155877196474
FXYD5	629.381791489871	672.862678078975	363.150472154973	599.926717145115
	389.051174954505	673.502723625773	518.17401959981	452.961307006622
	674.101599637653	1122.92917004037	1038.93733638848	1410.58825009446
FXYD6	1762.09874961415	2127.22258112242	2508.50428529255	2837.36293710422
	121.157614971438	131.255028381669	120.402155551818	122.828060462887
	173.647320180498	130.43775024291	133.412452607155	141.043668963717
FXYD7	128.052753068991	126.931328660501	113.995301093609	125.027095330593
	120.193580405229	116.828333047376	129.806104966617	124.210840121525
	135.173464753848	118.974727968283	139.736465430177	118.351607868932
FYB	142.534195262988	137.503405573817	123.875478428652	121.645021899034
	124.387133895009	127.171331062578	126.017158064032	182.310140388705
	230.806950763402	152.467764730004	181.558764396201	129.049273337631
FYCO1	1801.74467005923	1789.51979173209	3042.88425356552	2059.09598012857
	480.484639351046	379.788696204016	497.110852407681	529.854965483609
	494.747087458483	580.164288826741	512.541205235935	398.673582680257
FYN	519.940347384877	459.30568829087	515.729905361375	566.543765584009
	174.767697866801	234.461229199142	182.950456188966	189.044966519228
	260.41082304175	172.562162872242	166.89884215297	158.774910841987
FYTTD1	569.47446215213	506.290241222253	596.743397794872	
	554.282040414368	420.361583975644	518.760142491104	388.887050777137
	421.140525880287	425.001043358831	473.853999833395	377.024120035829
	403.582461109859			
FZD1	184.25384366282	189.552385508772	174.624446035895	156.407166112409
	219.661502916874	213.028568789661	164.309588213547	171.602950766191
	159.356121576029	175.040086358446	189.887788314879	162.237172404557
FZD10	145.333097940759	142.540433565262	142.185345091219	144.988803993714
	135.168792286819	159.016247993816	144.384287335249	136.621173927187
	146.087596132093	142.45047744931	152.538048490265	150.374573177474
FZD2	205.52620827767	210.960900130785	126.76986764971	162.178410412809
	557.513306351027	150.948076715456	295.727275232995	144.487533992157
	202.193338797533	188.767121505943	160.53152291979	121.61143371132
FZD3	238.978845152474	209.568066932367	317.309949792707	274.831898505989
	208.666760987764	400.621427274425	286.818166898922	246.80306998812
	271.087125858775	245.378747269929	202.583967728957	298.403224729528
FZD4	667.421612441201	761.586663689579	489.260272645085	1003.93455977232
	568.555967950896	1201.82026045778	943.677679525947	225.890195278753
	324.203537490975	195.88263399968	284.272977025491	216.353502371227
FZD5	155.835077077665	147.642693777383	153.655778377717	171.304896264805
	306.333710880618	191.725728813959	219.351080515508	194.529045934216
	174.454754564111	151.801558435863	179.810507975486	180.468984099647
FZD6	312.286788541158	302.381946749711	325.011269531407	261.922485502971
	405.409668978569	563.490027149224	668.570984110088	361.327436394941
	559.899430596368	447.909277144896	498.05778289794	443.732580517751
FZD7	733.648333788712	623.68308750251	593.990687449346	641.12919339861
	219.246271924313	179.96623248843	187.196424491482	195.740661051834
	185.938983266802	174.680918805036	198.94325874493	177.592497020798

FZD8	169.771005675296	160.923897048848	153.700168798494	164.562302265155
	154.296467085914	153.807525239478	176.506227858258	157.901967487277
	144.818492604488	163.198834359304	132.57219914253	154.43808450305
FZD9	124.585675323305	133.827296071709	124.116400777472	135.975265059269
	412.736636437651	129.033433971346	119.530214079037	129.491732597331
	123.059971161711	120.616979607398	128.745737514912	123.046069309901
FZR1	150.584633044901	157.55776414649	149.423230365631	169.844913799159
	172.108795190633	142.851432926979	130.408519735001	136.998259410887
	156.698856643638	141.038721816572	153.703682621695	133.446934298801
G0S2	177.281197832647	193.098116087792	136.728975205893	191.074428905553
	139.353080958675	141.164985468046	143.402684153777	141.630183595813
	144.474814266475	206.010481981919	130.651062724029	139.59941545613
G3BP1	350.658722333252	289.517820913799	249.064573038094	246.850599569231
	382.902151239988	326.962330523237	399.620724969771	511.670320118232
	311.848379951974	636.048536814356	479.983368253935	418.968095159939
G3BP2	433.594928641214	384.566987097657	530.122419830951	346.173614351499
	433.491835341321	703.29965727829	559.559921312181	642.057106241761
	592.284071247642	467.777995124655	453.282973743379	543.001249586573
G6PC	153.075594260208	140.129882333528	149.895214204184	142.623106544789
	154.938900278679	154.267020640428	141.840858913807	141.229805348717
	138.53179773391	146.425476034368	149.609501725707	133.131953362455
G6PC2	134.601565799073	138.911993471119	132.994716261577	134.469653093466
	137.190593489949	135.127041919869	135.022438246099	134.73970457131
	139.113675690483	137.25679451567	136.879615833565	136.895650862562
G6PC3	295.099840299681	345.38424761963	233.161848094769	354.336462793628
	1342.29111510713	286.133496092533	384.883635849576	380.310795921752
	396.212732639272	190.45739385453	357.431640917696	270.727749014046
G6PD	365.441289363381	399.872401268958	363.343480850598	591.763423878737
	1096.10636044885	354.45785837703	625.932910814208	259.252807304272
	290.638110977807	345.732364434125	260.921177985439	255.59042517603
GAA	238.430350258686	291.261765585473	229.881164774875	261.203388718689
	739.874432767734	157.248117633013	345.732364434125	304.402066421813
	178.416969664816	148.057700860759	369.513420606401	151.054834307689
GAB1	148.823805841381	153.238678313147	144.178210824181	142.613654158833
	126.019246614944	130.290454258898	143.281050499332	132.937942776777
	137.06192448185	149.902420337518	133.158570377793	131.730758460802
GAB2	274.14931964455	262.832376198119	231.819341041105	281.792602269388
	155.104697146664	156.026806913759	159.738700107615	181.558764396201
	159.58125728432	183.998458233995	162.560758971445	144.683260413888
GAB3	160.861929142249	157.768329108254	143.785769607842	146.604519441812
	139.752845127584	133.647637744785	141.758827837244	135.341892490559
	143.980608339892	143.971152352313	120.733009784454	133.537552829999
GAB4	137.237089899964	140.381386314817	152.654938328424	153.941193682697
	138.071335383596	129.346063085291	135.210887148305	134.631638658586
	135.571239294086	147.085006263446	113.687931899298	150.874014332213
GABARAP	214.991170762327	229.406012088782	205.705962405954	
	251.161789722751	211.555248754731	244.162496497466	198.979744266277
	213.145460679531	157.203304477454	243.246632667118	247.307128520272
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142.095289977576 146.675159409376 143.151478156897 139.828781354865
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135.033601686007

GALNTL1 219.537335167901 213.240181616274 191.665827345888
306.677271064305 151.214631373344 141.368078865065 142.680136733947
154.496005175117 152.93058803161 148.327340543504 143.607579034109
143.625188247966

GALNTL2 233.496804016764 185.100455193182 326.1109406486
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114.278113876915

GALNTL4 382.327656839936 269.261595558589 256.924134409998
257.477501542521 214.684538620841 164.630705813584 142.095289977576

	176.874265462986	163.946569217706	370.066087375401	176.53912635694
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GALNTL5	159.758196845781	160.251996476232	148.81406900745	
	143.405079593778	152.617507769717	152.06044555622	146.893429874574
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GALR1	123.400143662218	118.783904603368	120.402155551818	124.072512083237
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	123.491930765117	130.33205883588	122.362585067453	136.990610254852
GALR2	120.450111018432	118.614641349402	106.629065516249	110.408301129053
	128.69455713173	122.339819585312	105.450273343324	137.629855378016
	122.99993610249	118.88525116298	115.687997771921	135.753430034183
GALR3	121.874296836854	125.815256068004	123.745824514261	123.153925912632
	143.195338329759	129.940297696849	125.050945917101	120.571074646092
	120.517691208358	128.134246199718	138.67221078031	121.603608840998
GALT	220.415211013843	213.382179917193	242.348427307994	232.621526025603
	227.587590278412	172.073751088968	254.879772480457	222.943046618742
	250.139061165593	273.152907354565	194.702974020747	213.7326050342
GAMT	242.299252896647	261.322374889497	285.83626978316	300.247304779062
	161.614426723521	145.043494048779	145.847629576886	160.026178505749
	148.996601285688	259.868701878844	143.200939506995	230.697077917675
GAN	138.221749464651	136.572645314012	133.951322753098	139.282741110499
	152.286545050749	131.747367613225	139.429908070687	143.114384950467
	156.144934427609	125.393848851951	151.9441336438	139.008854444223
GANAB	626.582864105324	625.544719251096	645.806954296487	766.176882605175
	990.206369590236	750.494286476465	844.187489702587	564.41151411028
	575.23272138912	649.052806726591	544.852019338212	713.525134497596
GANC	119.159078990339	129.987548571478	113.810645407837	118.614641349402
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	105.132185249959	114.942849575931	113.487357534546	122.941711366641
GAP43	167.395369670065	165.880071298733	145.615291241733	192.848268768579
	155.979380606594	137.6160344044	147.552635527742	150.029313080668
	148.717545103261	151.334463063946	147.745780820004	151.130401750721
GAPDH	5300.67886821231	5636.26097921507	6585.34962362923	8016.1652884418
	8918.58940386786	4262.23145131525	7601.58151657937	7555.47017983216
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GAPDHL6	234.094722315007	170.901599088282	153.366677608026	
	149.055493714692	230.508733145583	309.318403417731	325.43977732888
	143.265532486512	151.451443480833	158.708054164813	161.799743586569
	338.46332239699			
GAPDHS	132.641236788053	125.707228291312	128.878051599968	
	121.991692204056	140.63666629522	135.16316100494	141.765004355609
	134.160882467542	131.863018503922	125.628281846465	130.101422420432
	133.964163727962			
GAPT	145.968884703737	136.344248873826	133.749271961438	121.980744551615
	121.632494500096	125.481506166304	140.226586111216	151.224289879776
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GAPVD1	759.534249620343	678.684323057327	696.277780670166	
	661.096668635469	481.630922092112	421.929674562786	479.053300726301
	470.308610828825	514.002313819685	612.374364731095	547.681206272188
	333.200230327106			
GAR1	386.817736004263	405.130899553871	404.366325262322	411.878556907186
	556.568221094639	599.208370337812	558.251384152474	621.946994961864
	797.28465621772	545.200687301057	428.959561932229	522.17701271254
GARNL3	275.996693627151	262.296456281666	376.276954313674	
	322.614169214764	164.791545858875	166.688771186254	162.077455145261
	149.606576415873	163.113457178357	152.358795162474	178.130223302924
	157.180095329946			
GARNL4	152.386986818959	152.011551837951	144.237691418911	
	146.692827583525	216.705908017858	181.530767521222	165.597236278435
	277.073510273425	182.833961304079	247.454326301069	249.064573038094
	226.315173823168			
GARS	1452.63736288691	1386.56788941677	964.093668483033	1472.54829263217
	1333.73334006986	981.781076110568	1333.73334006986	1285.02292965374
	1652.77814259264	2672.77147589342	1115.53524128833	1862.88548451154
GART	247.340470321453	226.173501275026	274.627303114477	225.095016600703
	294.595972099366	597.459920611726	366.705048374078	389.588346573823
	515.729905361375	399.762451559805	428.850337327605	434.509391836336
GAS1	938.918431240228	910.541650889451	1505.90883940934	1052.553421812
	166.85671415475	179.794718712964	148.773558380167	175.964600718395
	200.890547965585	522.300029971277	147.657151780506	144.256029338053
GAS2	142.726324048628	133.367085445965	138.897393621114	136.254966566424
	144.011792962785	164.529828080312	134.786678978467	261.814227719605
	138.962649407431	144.338069855334	152.768580075051	140.182150393054
GAS2L1	144.375109087466	142.798248249144	141.840858913807	
	141.170937695272	168.412162365467	130.666781754635	134.074425424613
	143.561114996045	123.288028185949	131.138322527536	146.035731780312
	130.977864137459			
GAS2L2	117.829228895897	138.240874738649	125.830917527594	
	158.244741207036	128.40650280096	129.647514123731	131.2360427855
	127.028640787946	141.226901872221	128.655549652719	135.790955294639
	138.322109975426			
GAS2L3	149.103778494524	151.972509608956	130.140958819402	
	140.626181314061	157.301617257941	165.286724415145	134.250052775987
	187.15740398852	155.465250172768	140.256871047018	247.236004734567
	143.816567683093			
GAS5	155.666943703002	151.515460040167	146.720204808211	152.291176493005
	148.81406900745	141.468076901305	156.311009595629	159.895303363094
	164.820007934887	145.773932754923	165.896420029269	172.46311371589
GAS6	2388.03256067711	2586.87941889443	1646.76016031831	2970.34597432588
	177.919885012006	196.839016616283	150.610633329908	212.291528248457
	306.232249422327	305.252666831522	195.10410545445	249.354198174438
GAS7	287.084253886676	301.369680426563	210.316431648335	383.939800422489
	129.505139430366	128.014092519305	125.704264033102	123.518170356322
	134.239029110227	128.814967091609	130.25146185271	118.703108284564
GAS8	221.869191666931	278.142283306934	292.037861000784	302.735372807236
	310.142754559096	270.33685210971	199.149959995133	244.054469051058
	255.374689750672	218.156162474715	244.5675215931	302.696004448559
GAST	107.961322525982	113.214390213004	115.587874563785	120.280241193135
	120.96098661114	119.525701528869	129.222714748528	121.961568081299
	124.697283474333	116.881212516879	140.258615682066	127.055165613236

GATA1	131.911579676047	151.794243108455	140.165450892713	148.691132137188
	133.762141373091	166.257275241937	134.691038011706	147.161720770972
	129.763063900493	161.155280539113	131.99470265134	133.286702819953
GATA2	180.085975596327	190.255797389524	174.953232190285	137.636900130922
	926.670867201327	279.668007824988	333.970844203158	171.589889474122
	1163.13845502757	131.926504315744	511.891269255193	387.068276379114
GATA3	181.654319266685	244.766289564524	213.510783808898	146.099555861577
	872.320823993033	989.77058497525	940.716682221364	958.63560158343
	153.511995286293	159.301581158613	1051.45401327176	1074.19589851599
GATA4	115.954828435072	121.952255635669	111.7529190597	122.022611139895
	113.620070198869	121.021776527531	122.317877997527	119.341806810441
	115.566303449363	110.17590675298	108.118551275778	116.977202125093
GATA5	503.757797957538	725.443026984982	543.170902795966	1301.18893681695
	114.528407572496	124.783306383852	116.273000405449	132.828179725129
	125.396523818173	112.476111928742	131.887778588005	119.669441891401
GATA6	156.949439724914	172.304496150036	159.775479686193	156.798431595608
	140.347131743987	138.640919060725	140.968351978909	124.451718955086
	138.877999126533	150.0674092434	149.898614923436	135.283742166077
GATAD1	241.734804013256	232.667968049771	295.099840299681	
	204.616225498655	193.689806171113	167.640645997754	276.653753970476
	177.132361355899	179.985468369202	167.67952650068	313.828943866034
	286.996908547553			
GATAD2A	847.564628337955	793.071192619058	698.086166782221	
	965.031655021246	1752.50728312967	767.377380800066	879.301932542031
	765.911113050543	754.97177863997	1067.30106203503	1125.28599595312
	767.054576874115			
GATAD2B	340.193863653875	322.889296658955	378.967410725775	
	288.370985514978	243.861834405092	251.307020289291	194.403848868583
	246.237243726748	218.592402813219	213.274106157675	227.065194522692
	271.196028302639			
GATC	158.041568121766	142.866874321248	150.748298569951	136.216577685046
	201.221839281282	167.018380617832	212.710910778949	171.473538842796
	195.84531580224	228.100112133941	144.763700813057	177.851689709807
GATM	214.050918459805	190.716424123036	358.654569870431	184.223623297663
	198.783034238774	126.288011849541	337.521614253267	297.757657398146
	191.074428905553	117.078720392441	148.25001336038	108.9291713877
GATS	553.90008440429	604.453803994875	577.33849844574	748.703265448403
	262.671819506189	381.57978490093	289.09614335372	226.936810012475
	543.001249586573	137.936605651724	240.283918204202	256.495848662843
GBA	326.640168906375	324.401611136662	307.768302846647	308.517561840596
	741.689442253375	326.055727207966	473.853999833395	622.142195892701
	360.285027176918	347.411500022053	295.099840299681	432.92947962962
GBA2	198.023465629218	196.691380885508	194.488249052694	284.748764120614
	168.071171406779	164.103306492559	152.617507769717	177.652022895288
	174.540209145695	171.130215858803	198.954254778846	172.26834556696
GBA3	128.853089272901	130.224324464992	130.173734963758	132.550022967297
	399.620724969771	131.526532700651	132.671227062948	135.639558187703
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GBAP	162.134726710448	169.061364889307	176.420075374686	180.493406236326
	171.140106467064	162.945789604505	156.978585870854	161.911468506919
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GBAS	546.029974898225	618.661249163439	713.832153334389	662.781145703653
	375.651196211048	399.762451559805	529.854965483609	658.746224115551
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GBE1	298.926727289387	296.428342247529	357.584458526365	297.805768288377
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GBF1	241.383657414248	273.402804140541	194.029961195972	368.374002925137
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	217.607230767028	167.604959895451	179.674744176904	184.332299740724
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	2198.4268389426	2203.82462320864	4251.82554412383	1937.83242524439
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	281.570685561526	129.391376518208	581.37957221282	181.85552254233
GBP4	340.028737478082	382.186095123659	261.065986251886	429.457884032977
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GBP5	145.97330701968	141.537578081123	130.297203474319	124.28313315915
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GBP6	127.913463809158	133.022848457361	125.905785653648	138.720489866687
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	135.648906382608	953.861218000678	134.623264303227	138.897393621114
GBP7	148.499207368959	116.46192274217	139.708303388546	138.02757574324
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GBX1	131.846160346403	136.545742688573	132.820927638053	126.089217853289
	129.405749374776	131.288785100733	125.231476412101	130.582210755516
	130.420753247797	146.464937541891	154.686025022972	133.416938451465
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GC	137.434039024162	141.917318809044	154.277670551775	131.086904662241
	137.450774903611	140.704317015307	138.834309377225	150.769819282075
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GCA	216.903719298575	214.803167803712	197.827534617557	175.752091217351
	427.084392965651	428.09583118349	480.484639351046	728.485195792194
	539.27766384282	393.264726588522	448.95671696823	347.866264631778
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GCC1	392.282956362735	404.445038343721	324.067396271281	378.695635790714
	354.656612182522	320.936905584424	486.778046640624	478.606567465979
	382.069677030369	429.922530506572	540.078145038497	499.321667633972
GCC2	158.658110539162	156.407166112409	154.33224999163	145.971656491073
	146.054535585464	171.080373870373	172.531836863525	159.365070384451
	155.883386742315	157.649902282769	170.410704499804	161.501062527272
GCDH	209.44506543433	228.384686248604	267.622579012917	286.996908547553
	357.259935567823	293.746733527346	279.070493043898	235.933451977398
	271.287767448621	247.971366020963	200.767743455226	252.056131165397

GCET2	156.611727364072	147.299872426498	152.660373241584	170.720018572735
	145.873819094778	147.241136598626	156.423687034312	162.168246402027
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	116.20008794813	105.712302595131	113.919529047225	104.739307327595
GCH1	122.90702157852	126.775180133301	124.403662787819	113.339155126202
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	382.562403424855	185.447093292348	292.60467054075	531.421912541822
GCK	129.733935614802	126.484819755399	122.053867525393	121.076652800015
	114.099623939954	122.460829835477	128.56495182759	125.579970155301
	122.843792000493	117.992729826121	123.117923525539	124.503016568677
GCKR	140.326012404526	160.050872656883	150.870830294349	161.592528958127
	143.00932329728	142.301581642006	162.732574014686	148.539881077647
	156.540165645256	150.166324293431	149.103778494524	150.070213543579
GCLC	269.673122990604	325.12056698785	428.09583118349	282.511614929917
	315.130912368929	625.932910814208	508.572981581855	852.436775264873
	303.555333002419	322.684910198242	763.880957432979	325.387193207414
GCLM	332.032371697186	317.659548748735	396.212732639272	281.341452463344
	340.301980622308	490.269418483997	352.665030560239	482.857203798212
	436.731545612902	280.494088228226	366.636754272029	305.577166690215
GCM1	161.603317039244	168.295044843056	176.631604815669	177.143397572907
	168.156002330441	171.740347129234	176.810979494826	198.795112039249
	159.660564323984	172.065593177758	167.421776383056	198.863347487219
GCM2	159.838626443912	144.352987324713	182.197625235191	138.842935439006
	161.870389635266	154.854538639035	142.446514275674	140.804008584006
	129.495680232567	160.159630699959	139.287871460674	141.842919268688
GCN1L1	1376.84058291266	1358.29475573637	1159.44907165386	
	1681.54485582868	2293.05058904656	1612.79779117655	1853.20812924694
	1612.79779117655	2677.17579532816	1037.97124386242	1663.71411325131
	1580.27059464289			
GCNT1	134.85590586532	135.023594109361	130.406895174038	146.381147992719
	130.219888837397	135.036576196425	144.388851371784	145.442914818456
	139.374278310041	157.010145291837	158.658110539162	135.073449743301
GCNT2	149.355389396683	148.567630572897	141.865758685796	143.653452869664
	134.830021570666	141.259186690966	139.804518460303	137.984988819967
	139.77436722364	134.955823960889	146.264686158155	129.831076624826
GCNT3	113.852849454448	117.937856116492	122.813441348997	111.848472437543
	112.962180108363	113.347609066395	118.351607868932	135.079944196457
	118.945264994404	128.411138850655	121.110498703017	122.129348411763
GCNT4	127.987449338817	121.286130275542	125.955431094455	146.904354404095
	135.395071593072	142.64161581553	142.285486339143	134.475296383752
	129.906744036052	139.028620375206	144.038859705973	128.543460982378
GCNT6	119.349376960211	134.425483661043	122.90702157852	136.929570710155
	132.232444196227	129.018088749395	156.622993107052	139.121639005366
	131.608580511282	134.23001942966	118.226036680442	124.895023786422

GCNT7	120.252164075308	139.097764484641	124.484589975207	117.834484996559
	126.702705908175	129.995417218564	123.968639555673	135.306127055224
	136.489566741917	132.566074764755	122.828060462887	127.327765407459
Gcom1	228.058870735016	213.274106157675	463.488995330457	226.387465899611
	153.738794649373	149.666293193219	171.473538842796	159.997580819443
	163.51024840263	151.144521344129	154.2433882385	163.487737425232
GCSH	195.333029746339	187.145134088286	212.749668083641	191.093283411655
	303.423450627377	272.854435771465	233.997642139328	220.362946606131
	193.689806171113	256.370052241046	185.140211988926	215.802713097166
GDA	123.81177057082	148.302775746627	130.440164900487	135.023594109361
	142.883466086309	139.377027955744	129.847481170604	137.483830932387
	148.13657736444	129.57551086282	127.990453128978	134.840285218383
GDAP1	143.2438241778	140.304810288752	146.983646662811	144.482364671273
	142.822594215168	143.376817049362	155.259089547817	164.458565398812
	148.211354898758	151.191822057706	153.655778377717	161.992141305029
GDAP1L1	132.466796864599	125.672285485643	127.941584184869	
	128.440024330942	134.592495777159	128.077692981235	124.76274408368
	126.737230874367	121.419301042072	117.602986362773	140.765231611948
	122.659174808512			
GDAP2	155.587018319981	167.337624316172	154.564478911791	157.6811998968
	208.456472621593	153.492072037266	166.192990554427	153.5256657638
	171.644710031098	148.364138636002	232.127996106421	171.035391211596
GDE1	426.896707161414	464.812091712746	342.717252404581	691.397238677552
	306.677271064305	491.034395489684	431.019896339435	374.215345412947
	300.314088267108	252.056131165397	424.855168311509	498.641091757363
GDEP	154.884821436554	136.540568915609	146.286319248569	139.010652831798
	157.073850948746	174.357336296554	164.959415532174	182.736067431579
	146.135269553731	172.686798187142	171.740347129234	154.384766720753
GDF1	129.831076624826	129.138035235415	133.155925118245	133.692996980809
	140.149064156135	130.818181991958	131.628021008753	133.106005881815
	127.04953162892	135.238301951626	140.426489534449	124.15094220181
GDF10	161.841975820372	169.671341667693	154.16370087233	191.679217737051
	146.725123303782	137.079479050963	148.82892305156	141.204458186976
	142.195764444916	141.937611082276	134.226711030456	152.908358615016
GDF11	172.057586741925	164.548505132213	158.175138008678	161.608941774391
	163.104822161892	193.173703015873	155.143752422033	152.185397218918
	160.861929142249	152.845126167802	162.756185479013	162.748836971539
GDF15	392.582612044755	589.722914993267	424.025588636796	151.641486303453
	4763.89426388268	1399.41653736746	2532.82545752082	2645.72125268628
	1228.89116158868	238.230110356671	582.062758687489	832.622843175217
GDF2	111.389873428517	119.366599958278	115.646023142125	116.416896654975
	100.966979609222	115.491262364277	110.437728036347	113.347609066395
	113.989682635964	108.386545220984	116.273000405449	104.58424134098
GDF3	114.867454554206	115.285392699073	115.896463925125	129.013667813486
	113.315182274675	111.848472437543	113.05681175258	122.022611139895
	121.099290122973	126.939543057414	130.59670974887	123.312000381122
GDF5	114.539671934155	111.041656398985	119.640086587188	115.725323816619
	112.096627288813	113.479382235297	115.600308687778	113.840813583258
	116.897299691798	115.613348109569	131.599370671279	123.843823256462
GDF5OS	137.195906276069	140.672863685822	129.835713633923	
	134.914830257315	132.953762692926	136.578058206829	134.768694020981
	139.522018789485	125.493004972076	136.152827218905	147.78095608696
	140.21908493941			

GDF6	121.930362099901	132.089375920534	125.979152567959	120.447140228396
	125.277752749246	121.905741525277	116.342242990651	125.98519427755
	126.242935839683	120.39039576721	132.786500984297	108.318510762416
GDF7	111.152235113722	122.27785621724	116.276003190171	123.185652476312
	121.45175516842	112.248047602652	120.436408685057	120.660349211375
	114.826501559828	121.792573534134	143.793506250131	115.649568330705
GDF9	158.297624312257	140.326012404526	162.55521875551	135.013075032671
	141.213588194832	144.380485359951	147.808262170269	158.160604786093
	158.095373931016	140.264060906597	148.594322264158	145.830916005206
GDI1	720.077057619735	797.28465621772	487.07860019179	1055.79590411506
	647.439372562271	288.631429069336	414.596948083067	333.970844203158
	402.564148020948	465.102234374389	503.757797957538	343.417041721907
GDI2	2544.58522979036	2414.22821062457	2642.24374855334	1785.92695250894
	3042.88425356552	4343.46317176151	2132.90676194993	3078.76695443407
	2244.6916226146	1634.20135156938	2941.69058596077	2227.70654174379
GDNF	126.905235161069	135.281686411685	126.471321085803	133.146347243168
	127.419227292862	134.673861365626	132.697727983601	130.258933321051
	130.416957431512	132.580937663749	133.289175078053	127.964855970099
GDPD1	591.641325402032	523.435696794756	655.094843900848	464.812091712746
	162.58152435515	388.096183735126	234.895245871534	357.006610037663
	248.360540656183	242.221324619171	312.286788541158	287.455622143233
GDPD2	156.208747691032	154.493246900289	143.795399778897	146.838547724148
	161.061119536632	156.077604146143	158.645402461996	151.04846635538
	143.655901618594	159.185616602396	237.171424222756	201.81649023518
GDPD3	168.897620634337	175.476184387338	138.13987378399	145.594378536072
	616.995114856023	829.740755449333	216.077955163344	945.403379196643
	589.240581642145	349.540558521616	199.275716402358	142.215285988753
GDPD4	176.138621462315	171.022976593689	161.525131363333	171.671895682052
	165.763459146818	162.085813676373	163.198834359304	156.357126871243
	162.756185479013	160.022481227931	162.629257046871	162.096065738375
GDPD5	360.756455184184	308.679189788554	227.806050911154	263.47760086159
	148.490236128772	130.700175060255	133.796029401157	119.759350702482
	137.042097702398	129.771073986855	140.675094228846	144.898770838913
GEFT	137.17370871536	169.184111483933	135.423839577038	217.86728342043
	125.393848851951	122.35832958054	121.327397317398	121.784166691545
	125.114303270024	129.103133449097	131.300342835696	125.104229604098
GEM	449.952497751758	377.89330639683	661.096668635469	305.200911653347
	143.973464003036	181.865456674829	144.492756323647	149.31422191209
	163.976361576383	203.244917049745	144.358535632993	152.769931978291
GEMIN4	437.049581919144	526.625936680738	580.347496467173	
	597.459920611726	839.662936279727	606.003956839826	522.664475688419
	732.040299742444	539.471166362469	574.779350011402	516.429067667758
	529.04238100948			
GEMIN5	162.173506492562	170.720018572735	202.357989894268	
	179.079061789059	175.79375235478	173.507835230243	220.079379312889
	173.315097944835	180.430425314885	217.86728342043	174.717158790668
	205.804144075374			
GEMIN6	289.911635155481	286.431013744652	382.806570442504	
	313.099028594073	642.934824227327	642.057106241761	626.857289492802
	562.891241563711	421.303580698397	431.019896339435	395.588345893987
	391.706404954357			
GEMIN7	145.660417208595	140.651536723893	137.734887788912	
	135.817028661429	129.301839663122	149.995272585012	143.720044122451

	133.834423222601	140.061045085545	137.50266393001	146.286319248569
	142.675752131935			
GEMIN8	206.010481981919	201.349209185128	214.331491507489	
	208.214764518526	214.200081541057	293.482512212153	185.186497037695
	233.496804016764	194.831347257735	164.791545858875	226.449705559354
	196.889520085412			
GEN1	147.619451225526	141.480793979634	136.118702626862	146.235832275574
	153.613110881454	147.357032438442	145.610045243277	161.16688895179
	146.637799077812	145.039617860588	156.277567608825	150.075738752092
GFAP	119.135701239571	111.389873428517	109.91537150286	113.315182274675
	119.795945889846	114.14858855653	122.868393258957	117.045020667394
	115.285392699073	120.894583222813	126.964621107029	118.500956349352
GFER	142.566028652989	142.677386111317	117.324368138398	145.060085149395
	153.171822092714	141.336866031027	148.512096079648	158.347972566681
	130.935922915902	150.763810844645	152.798927898416	137.049677918041
GFI1	161.618479762188	157.288308753975	147.696506705909	141.947478902603
	142.688809469455	145.864902319111	137.372131049785	159.470818285679
	173.372949622338	159.115391667901	162.536009333787	152.798927898416
GFI1B	160.311096717492	156.423687034312	156.000732564221	170.430478598594
	148.012353232918	185.783374935551	155.349728277626	158.175138008678
	153.934872807607	145.395042579024	147.539226876636	151.581593330224
GFM1	794.636255515909	895.463355957918	705.987531074737	781.790858580895
	747.077451281453	635.37511798786	622.142195892701	755.42757464615
	631.106334754678	462.888171502285	517.020259129974	724.103864917969
GFM2	165.737618983611	158.408494909763	163.805257266374	166.533191390639
	166.850279817976	198.753297290444	240.994507285383	171.644710031098
	184.387409077972	202.819949307954	164.373697447004	207.692077301142
GFOD1	974.544773560873	1157.02365469464	662.958637409597	1248.69137283095
	178.43642939806	494.347792360629	203.675655444583	280.913748398876
	232.735767435327	573.074116810032	172.20451139581	211.626970008102
GFOD2	193.336246844237	207.985880193245	197.427788552936	209.684346388892
	310.598930734244	262.349315496653	297.544216175512	275.972447693982
	378.088675670786	306.232249422327	277.596303701405	329.88790758321
GFPT1	272.193578770314	238.183096218311	223.531323159808	219.8511043213
	836.235700891687	375.767528676937	440.745866155629	578.297031096292
	595.593867616527	426.464641742092	416.933146258428	313.888035511709
GFPT2	260.642170838161	225.850439131864	172.376544221034	175.670738308809
	120.263659727964	132.994716261577	116.082361389405	114.512028664352
	122.554760526767	151.992112109698	119.937665469629	108.131097605872
GFRA1	146.110545700163	148.794293762142	134.010031592003	134.445893291422
	135.934249020651	131.540436531741	130.754320787628	131.255028381669
	137.30143217822	136.0317444903648	137.114604159523	132.53122878527
GFRA2	305.615423200097	382.960724128105	239.363511706064	505.404271675438
	254.287838845201	166.936975782665	153.184575380093	202.691507273819
	188.995551740427	152.188770978528	207.674249122047	172.531836863525
GFRA3	219.151144724168	236.707875629511	195.831574717135	319.560819487616
	167.961390966538	130.370405378213	128.984613946021	131.702788057359
	142.709768829207	126.868970616955	125.326393776938	143.774841336279
GFRA4	133.504078347324	135.75568942028	122.568743478314	137.605244950708
	136.971869448818	132.606735652984	130.74794199972	130.551216910933
	122.799487123057	126.214166842097	147.78847662997	127.797666392002
GFRAL	131.18368961955	132.657106732366	130.590195477461	129.446084290637
	140.013231300392	128.0366252162	130.829825154842	123.219903763265
	131.968781256081	118.95971064289	133.198832503062	129.940297696849

GGA1	5543.71998558526	5040.35379681644	6601.004284244	6944.90824302953
	3200.61067185412	6203.08085790474	5532.93454600454	5207.37974585707
	5846.17594234628	4901.41175228982	2733.68308784024	5532.93454600454
GGA2	445.348044448953	476.168679880357	346.862322263052	442.766704003254
	258.16437138327	278.555009982029	489.403061697031	397.985856484851
	335.938170230765	259.742175498038	553.123179808258	326.703488388966
GGA3	218.811490883852	207.545424360094	208.270622752385	207.05325577114
	200.242239130026	193.609985124825	216.783051958345	225.664432111551
	219.228720772236	211.505504834207	233.335353447342	276.434192872962
GGCT	323.086368767924	412.277592266475	408.811415529922	335.239364345057
	1071.83063260499	595.270107963842	604.687265229902	896.625415670455
	832.911633923496	1172.96121022579	690.010326122574	1032.4540300024
GGCX	181.238505183667	186.321879879561	166.868688936939	148.454344601562
	405.322847383739	199.235895708128	317.273940108333	296.553550946307
	300.247304779062	236.470206707351	238.344676327918	219.171591031864
GGH	185.447093292348	202.145180994821	175.974598536074	192.580288063603
	665.936368667321	1357.48791782399	422.688531130043	1366.06309834426
	796.439819579938	635.37511798786	251.138401278632	325.525450750788
GGN	116.300028266671	118.622346984257	120.853961156534	110.347631909888
	114.350596695469	118.338713846941	114.830474086443	115.963144087717
	120.696557306298	119.83679981791	107.714294216913	116.408126010926
GGNBP1	130.01207836961	139.168307371516	140.868946922293	
	152.921328522953	147.056182807232	136.607783800741	130.114464233633
	132.819726980184	149.556644928013	155.798048652444	132.582062079623
	152.413389525982			
GGNBP2	782.448692528135	734.97763567765	821.265710686098	
	657.562129888446	454.984562256248	805.600599570258	884.747476952289
	1257.32413345748	1528.49457104932	737.193295872614	946.640841062802
	843.545962045705			
GGPS1	422.688531130043	403.043257175264	432.515970951769	369.070376276471
	242.188218870393	291.839070398338	357.431640917696	499.544050752036
	377.083379021079	435.095843349921	434.855262284265	495.438672949441
GGT1	141.950778601653	138.618761382177	140.42579083092	136.026302491961
	142.656762407774	144.386561289985	138.59175751301	223.339132121796
	143.626857507866	137.473779155388	135.346501914337	140.096717188376
GGT2	141.162443312437	145.241301006518	147.017958916908	137.701271351806
	135.883119645931	138.409284761652	136.522590104535	179.996590340102
	139.136845089275	138.938546468136	147.488635834397	142.630563791102
GGT3	148.683761948082	151.382199195953	151.88244935494	158.6953558198
	162.961792330623	158.691830524781	138.395943168158	178.606255846041
	147.07272598888	140.611071681667	132.576755070703	127.346646117375
GGT3P	150.784262878145	136.981043383326	150.639235242268	133.106005881815
	137.185243517766	140.149064156135	150.981208776163	177.60876237572
	155.283003653612	136.171728950893	173.09379121032	135.925813154268
GGT5	173.353648927895	149.41564356447	119.943408501009	147.605262422483
	128.196474114536	121.968807253639	121.278346729876	126.678746008577
	127.945144368504	122.226875707253	131.381189141974	123.178049594968
GGT6	130.33205883588	160.441879289883	149.233023751582	110.594755513247
	568.935113269368	384.296190598736	334.140757209353	507.236601481067
	344.575967665039	150.584633044901	711.166793546075	551.92688162618
GGT7	147.038700869156	142.179197020805	129.148634038268	134.367115858307
	113.536570797896	128.890685255595	136.093473732174	127.052618800004
	138.386391726042	122.472909598385	137.493436771898	148.370331097467

GGT8P	121.059923601223	135.971507823633	117.917454674671	120.308260557986
	127.07186140748	125.208803405105	117.137027732123	123.198873421356
	122.423561732526	124.012439490264	136.209796259197	128.827129738041
GGTA1	158.135321157995	143.035625780446	132.624674205566	147.928629511539
	128.257292171015	145.06736850005	154.834679562341	126.365861978893
	141.401480567426	138.537763477627	145.836613334985	143.455941298415
GGTL3	166.526875572556	163.248980088946	158.960488862727	159.592581700976
	141.294094833197	169.447827110558	172.599654598668	152.30599498619
	152.327247552986	145.07503221134	132.383542877819	182.827395663312
GGTLC1	135.553183871663	147.643985046683	133.801549026691	
	135.774569629738	130.980199575227	135.453399741892	131.503936441405
	130.321133400634	134.678445085174	138.096262211809	152.768580075051
	132.741859397511			
GGTLC2	133.022848457361	123.865424155099	122.379537202709	
	128.922269289649	124.627339426244	114.161540771427	112.624137732184
	119.530214079037	122.136861827049	127.540848073484	128.386309075038
	113.521599852465			
GH1	128.76720970745	131.592172917738	122.274656361883	128.126354569418
	132.456945758174	122.373400988227	125.367386907897	118.875640081461
	131.12953085854	126.825785762925	128.671626815639	135.281686411685
GH2	143.512348693556	135.618562468776	137.181558419086	150.731093808891
	138.936872956065	135.975265059269	141.248526020456	148.199249855894
	134.10707191601	141.770977101211	140.123348569709	144.035936160694
GHDC	294.22752955801	331.937313503755	295.935625475189	340.487850009685
	526.970555181851	221.093229309411	277.459328083162	299.80615152845
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	115.896463925125	109.728809191027	116.221426977629	109.30275288389
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GHRHR	135.966929064294	138.519129384809	131.648308760913	132.928639483854
	128.074531806621	135.210887148305	140.132816040735	141.143572141958
	134.182902752156	131.823019555685	131.208112906919	128.486023696636
GHRL	141.537578081123	118.45291712775	126.295856316628	122.667593730152
	123.609527892227	116.20008794813	115.664551127497	122.232732968363
	129.733935614802	110.014935095391	147.463822782303	124.977046954694
GHRLOS	128.510903178542	126.952836653857	127.605805815475	
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	151.325068155715	132.659196898439	141.499192356469	151.089328533476
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	127.245190474707	128.634431242405	127.490889148422	128.458132030921
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GIF	120.543881800775	129.35944300615	123.782746527199	119.13963074637
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GIGYF1	197.91325268683	201.954167006591	203.563098303937	
	203.370353613423	194.686527131656	178.584378959369	202.643624039869

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GJA1	717.270096456387	668.853969513382	583.192225756596	388.477382640003
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	140.477307701027	164.753886197136	152.346098251128	143.943676099522
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	121.336932276232	150.642465826166	133.44592405762	127.551486042435
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GJA5	162.774716879847	174.08222895937	165.960176666275	178.072538529634
	141.849319373594	161.874184077257	164.50490221903	174.347451984066
	169.238325933605	159.640027194076	160.277755404001	165.942761337382
GJA8	116.428373788459	121.476730561812	123.635470154191	119.517021355598
	127.773292289242	130.018928906449	118.206034087145	114.226028611171
	117.034228068173	126.839037497031	145.902572804249	113.451566510208
GJA9	116.053859681399	129.257947818865	124.186557690235	114.638254225216
	116.501174707117	109.898406285895	113.283359026655	105.236768436069
	117.907840952685	119.780654293448	135.116985816353	110.977904932371
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GJB3	130.749763860615	148.060086496148	149.801573181126	135.884635448277
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	155.803946849495	373.860920943049	191.3765085801	169.541411677993

GJB4	146.132506246152	181.491120129045	156.330571337475	137.996291911198
	199.235895708128	249.925640256322	143.589222264786	153.075594260208
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	197.087015414039	174.603285240228	184.157941055948	138.880168623766
	169.574755162815	464.196512015649	208.164674386141	296.141012087256
GJB6	152.566490804809	188.079188251085	156.576585764311	158.249743182741
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GJC2	526.182262872235	544.222458349696	518.281245498542	757.877066703516
	156.973511952828	159.207567680134	125.579970155301	142.505050582588
	158.712241098927	196.676479140094	167.575968906119	169.520544329439
GJC3	132.637443692683	147.494937826597	148.302775746627	147.863198012238
	140.025668085978	129.130212375815	145.168031449425	128.543460982378
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GJD3	140.890227770353	141.448017858785	121.031695489398	127.842177770276
	213.652091843896	373.290426793366	383.939800422489	134.222453538421
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GJD4	115.128667174745	115.605206174867	115.848659135231	114.774530966446
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	122.830376253922	115.975794003391	119.551741097918	112.282839763467
GK	139.878752507646	148.067562465748	144.175551691291	130.863753083296
	227.715558644326	282.797367565702	246.428746807313	374.169744342352
	349.248144552634	222.848935978648	198.885004378065	217.940575516933
GK2	126.233395051706	117.238968848218	121.197702744078	132.642931022024
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	119.9414421871	129.940297696849	123.275246170603	117.718893827092
GK5	230.91747428831	205.011514211101	294.323621186916	186.06425658259
	167.421776383056	280.948704707655	236.933960698783	285.507315916663
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GKAP1	265.028512407839	234.895245871534	348.067061666237	247.145700155364
	163.36682525399	142.390243984362	157.565633456909	152.017655364287
	158.554429311951	142.211357324461	155.257184514112	156.18389905051
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	158.937341335707	136.378203924435	5437.78386044638	145.152605166094
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GLE1 541.351092873522 668.127527385348 624.825216056495 767.377380800066
477.489368828457 480.101253056873 353.774297577869 585.933822585718
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164.696616863082 189.292740365891 175.711836112986 182.950456188966
GLI4 158.608479354755 159.320692108734 154.400124981573 198.15257384667
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GLIS1	124.913645688325	137.079479050963	122.620634570073	146.476960694197
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GLIS2	141.378381097266	136.359189516452	146.501559368223	148.742216703684
	148.076841184769	156.731291756066	142.995274641765	141.508424382665
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GLIS3	162.634670715627	167.003917876371	150.109192774079	158.59135215074
	139.652974659584	141.67550758321	145.827592345054	164.406564594296
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GLMN	247.280717385562	205.930921729192	237.575788579215	243.283375388645
	311.10841853984	357.773949920377	248.16594076495	343.488356185437
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	1332.11815966955	1414.95226752155	2296.30423509176	1356.43255022363
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GLOD4	867.369315017411	925.009157785129	882.429823267754	956.76879975749
	611.208083466988	920.083835296898	690.246312542011	856.424155671931
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	126.132339293132	127.401551376191	145.010108826238	120.479270037091
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	116.074423050416	112.904318310632	124.752198904184	114.217867810848
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	146.499065641095	139.628966306048	142.96594961303	135.527445907621
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GLRA1	126.00304757051	137.089392202166	127.490889148422	126.643229085068
	137.347554578171	124.650711299942	123.809866652834	128.669887479835
	119.567911704298	124.958287100852	120.196595293401	119.882472552083
GLRA2	133.239703270008	133.449527627723	139.574895021783	136.251820364823
	142.290253129837	131.782007636511	130.590195477461	118.773864607553
	132.850601603567	142.717436384151	118.544870925791	136.470025638057
GLRA3	138.047487233711	140.260053206523	134.947657801444	132.941478943584
	136.229159638766	148.859129298141	145.739537463907	146.355229778997
	143.421288665418	139.032275257901	137.578516107502	143.772376623996
GLRA4	137.298549014192	117.766156390814	133.88072491369	127.289269745461
	120.649467083125	115.775525016883	123.7421178083	122.631814400575
	116.118745494794	128.071379991958	117.923459503989	117.060696904303
GLRB	140.552143090027	136.077039612526	154.170007083026	138.088712695622
	125.828998007608	128.075865243385	120.394220715157	110.081964209973
	174.568253693395	127.822440239962	121.377666938052	117.361778263056
GLRX	475.927798702033	408.361368902627	401.87674893993	362.376153348015
	279.413335686746	555.959424692051	494.604716660887	476.383294794912
	787.017214032692	400.550044186372	1454.94889750152	553.615252472149
GLRX2	219.753039699136	224.67853219142	208.932692585748	209.487240895674
	238.068308163643	209.004374703564	270.33685210971	275.755038921952
	209.54573978355	303.907003535357	214.434355263652	277.219796733134

GLRX3	297.708113541379	302.462763120177	435.901794650816	246.989526028884
	418.319283832879	888.706978062337	818.445501500731	711.491528818004
	682.315322994357	884.747476952289	546.274050902567	1034.2217095753
GLRX5	3441.9805896226	3055.80298721424	3938.94050658589	3338.13980198211
	5080.63091497522	2116.39371296122	3287.37172778474	3518.84173951107
	2877.92845389611	3055.80298721424	2748.51360874099	3655.63669142687
GLS	682.538709448692	491.034395489684	710.999354960979	541.896444696137
	194.617252921731	416.392874553797	219.246271924313	438.958573676953
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GLS2	146.326067008478	147.028946382445	127.650229552084	141.488910091973
	160.865949438448	170.040914594182	173.726420791056	171.795878750365
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GLT1D1	139.997245010492	123.887740029279	100.216750525986	
	115.718600552187	118.457573670556	117.494422663086	115.473431881597
	124.712789674509	107.841100741858	116.136849683574	138.783017264895
	120.39039576721			
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	1816.3719976564	1646.76016031831	954.488185198006	863.086199215353
	1106.21439150501	644.301665020526	1138.44837250274	716.229989890801
	543.170902795966			
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	162.812665683603	142.736148814019	124.095340478326	159.14477373952
	165.219393390909	130.721987260546	133.82548013342	127.631770516132
	139.871928127715			
GLT6D1	157.58224826673	141.315230997077	139.717662557602	
	150.998881139061	156.490654498766	143.123983359386	188.641397688261
	145.143366567189	147.199961777192	142.937182720493	142.14654303591
	156.551925771312			
GLT8D1	233.192751618176	229.26243866226	213.447886742681	
	199.756584044664	288.505502880424	286.085833802132	432.969886744613
	270.727749014046	263.448958595597	237.045634416039	338.665115108128
	262.019779752857			
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	337.822337721287	162.994537815938	227.558441474918	173.38031514498
	222.086635504858	238.88138498771	361.390981655795	160.949030247406
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	3090.52810501797	5347.78127066964	4118.58682247781	3664.38955037715
	7446.59106452583	6044.78942014135	4743.19967685595	4030.42725798136
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	185.100455193182	355.14024238296	189.37832342197	199.037998955485
	181.247766545135	193.134414137433	180.501409705275	197.034073391478
	180.80811429888			
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	134.703474191011	145.581755438161	132.128418409996	147.441650320053
	147.526701500887	150.494260282384	136.633726784926	125.75980494927
	138.402890124039			
GLTSCR1	227.847614397311	238.310077556167	292.28857006885	
	323.628636799403	739.52947559669	215.506175859782	341.43511159996
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	12654.3779830648	10222.4435857673	3693.4058156307	9636.32818474581

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GLUD1	2508.50428529255	2433.83421295012	2462.87034563426	2441.05534211996
	967.123240442957	1667.86825735893	1386.56788941677	934.546444634669
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GLUD2	152.379441401583	126.282575548237	142.305484770249	127.874934513708
	125.055545087871	134.494167613686	146.981521393075	143.909501365162
	132.353385654164	128.197031700084	159.990561741675	136.641140715439
GLUL	146.014790698087	155.933739693912	151.613134875009	148.197029306137
	140.730085305185	153.679479224178	150.775805918537	149.577995793381
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GLYAT	125.470172259885	132.28010415054	130.548611758921	123.929180327423
	124.246363878094	121.93549478261	125.318166919844	126.832182961671
	134.01566484034	121.146511496024	136.461182044855	120.345546077894
GLYATL1	147.75625228531	142.573662441786	159.491388998564	
	160.050872656883	151.879398444495	152.643087608513	158.658110539162
	144.288714958892	139.001493765421	157.675974692761	149.233023751582
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	116.263405190786	108.530158480237	104.36042819601	107.40922161073
	107.239841465534	118.572988141773	100.325215581101	113.769815606191
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GlyBP	155.680330654611	153.457715729768	173.577723566555	166.563411635721
	169.852769679312	158.943005736645	154.569432344392	163.331424612891
	163.575300618666	154.65319127051	149.833346575446	155.798048652444
GLYCAM1	135.013075032671	134.191460941478	139.530196462344	
	143.320787131532	131.395959781477	139.42531690926	139.260868989409
	137.509100088226	132.74579603362	135.159590925066	133.874468336025
	142.652939807341			
GLYCTK	157.826457203706	164.769320792025	147.04481509758	
	155.035727630756	303.300028849873	160.105903942674	186.611870261871
	163.764600217347	205.987280015028	151.216992571364	177.990274115348
	189.461090469712			
gm127	174.375388013694	156.176537862398	184.348894461271	156.626742111441
	147.658462231804	164.347168837655	167.003917876371	157.805871400914
	168.261511797218	168.511517285223	144.954595802474	168.33854702953
GM2A	262.093405224922	257.5097052677	343.767393640683	222.134519361117
	210.085329463347	243.308625792448	314.014654357569	297.419034136005
	288.68376542946	1171.62361359992	243.839402991061	226.144012966486
GMCL1	210.529782898493	233.536023295039	250.443147156029	191.310372695208
	432.515970951769	514.922742487521	375.131728190867	343.617417488962
	345.135289739599	357.259935567823	278.168897504985	318.561557474749
GMCL1L	129.093864368842	121.176150171592	127.543729713161	
	128.539969915702	127.401551376191	131.530256606799	125.500790447338
	121.926377140115	120.948246352846	130.325073627151	134.132312782731
	130.746465595759			
GMDS	317.949646885539	376.374248850987	291.221427744817	402.694564608582
	1097.18236659974	553.90008440429	889.054356462993	643.13571432061
	699.800360892516	803.60413590137	789.752781067888	1106.21439150501
GMEB1	190.993590849624	191.924177620803	175.543924200429	165.118167086792
	221.719848707318	225.050796356289	161.80922869659	195.577739376082
	188.767121505943	212.073472189229	210.33390115739	202.041958613989

GMEB2	450.99430272315	571.273512452931	446.509863498357	722.974310297586
	970.166036472486	603.061485415867	653.879734066271	469.794672718173
	569.47446215213	367.898258897888	470.578335285993	434.176007498693
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	765.532997390972	1136.76110352875	1318.3633082502	851.221199352646
GMFG	325.642275889649	375.407747753058	273.668871896558	307.866499851733
	206.376365685112	370.678040372273	412.736636437651	479.053300726301
	589.953707188378	309.997909440664	837.023434916281	1629.32740709526
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	569.967953318205	235.453139389486	217.264041781337	295.778154263981
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GMNN	160.322541355391	177.793860516896	165.686655824416	130.483765953389
	287.967349876429	836.613819700658	424.285848583977	777.410297605252
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GMPPA	279.541294184609	286.856346704286	250.18189549573	438.7446527797
	441.578261054602	197.277310409328	252.10470581893	252.197271817794
	304.985269874607	302.905840432998	238.823244541016	229.046153362151
GMPPB	178.512206531256	173.810080280732	184.398672994943	187.50236021149
	296.657844888195	195.906137340918	227.965783945702	274.047586063773
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GMPR	197.582402276079	203.983168778488	220.533113603343	229.97640195632
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GMPR2	426.464641742092	426.548994267836	501.863855158062	422.338508598153
	323.276514394119	318.930960243303	618.829716818725	510.972389503051
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	543.584413650467	554.115756730498	572.753294955207	925.205399154409
	737.650963292668	632.278924237678	439.616817413027	574.896304593109
GNA11	1065.74382494535	1241.59946353857	997.460212152591	1731.62376348283
	980.67040349547	561.761160223609	441.785666261936	436.982960786839
	398.272713014637	384.641319423853	396.40172043456	412.048097766066
GNA12	328.269845211173	343.666488527549	310.640107228956	451.496617003797
	209.54573978355	175.7330682766	172.376544221034	194.584034984339
	164.491207767654	170.775283924087	170.108500366942	204.396576475753
GNA13	487.597040819879	538.484170364629	592.957842630046	382.701467158304
	378.967410725775	671.134356672693	710.228463443265	710.003412772888
	582.527835746927	395.386242257877	565.97975389646	561.858563298512
GNA14	197.087015414039	182.118544602205	237.358925391616	197.112749959833
	186.215602572358	165.586397236489	165.71382076724	218.334273320319
	162.192879711747	161.632610858756	173.38031514498	158.072347847051
GNA15	179.896659891106	245.042781391047	159.820341130737	156.859539612504
	1174.0922389136	845.646455991008	908.704610877319	665.106631364961
	694.644744547412	2374.1382412432	1325.77498031227	1064.85152398919
GNAI1	304.013547190343	271.713695056313	304.479999301061	227.965783945702
	178.222120802125	187.046760972666	207.674249122047	165.364935913232
	143.956726538569	262.671819506189	211.160781061336	197.169703621888
GNAI2	1782.2498613913	2021.92898855142	1690.96371604294	2332.98074920207
	4030.42725798136	1137.42879398351	872.320823993033	832.911633923496
	1274.39152410752	1301.18893681695	2026.85580212422	1435.4236709581

GNAI3	307.518881119091	257.775569674531	240.182016388745	261.89195025254
	292.366934378643	265.866465528654	315.182134426778	395.927222009721
	260.85776723575	546.841563406813	259.229153662504	305.906480933354
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	149.995272585012	146.484364264513	143.144153021901	145.026722065573
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	136.48748813417	130.947003916049	136.90636489391	130.532559074698
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GNASAS	134.584076788979	141.03218895811	119.432201417811	
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GNAT1	146.840735518984	136.781417098789	154.452964510369	146.242897296397
	146.318052064937	175.41089164969	147.16778072296	156.65842876856
	133.085476994246	146.608010450782	150.578023008958	151.761369162723
GNAT2	118.154953746492	127.975441922402	130.285187693932	117.532063783977
	126.446675008883	128.975785280465	118.514618614167	122.20752192519
	117.503848306325	118.100611964852	122.153996665065	121.334882368464
GNAT3	125.189588215659	128.963962067821	141.537578081123	140.925705285169
	137.000868503792	140.579839043912	131.943014970855	140.782522936146
	131.811011266156	127.926270257252	109.29279076901	137.81819274774
GNAZ	181.876635968785	198.795112039249	160.272632590118	233.884660128222
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	124.362182111222	119.558626216818	143.589222264786	115.37736249419
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	3119.93811557461	3807.16206340771	3436.32495553246	4262.23145131525
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	429.096075419528	185.938983266802	177.371157649894	154.267020640428
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GNB2	262.629961694573	319.352940751688	187.673748059596	272.277433294605
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	23190.7842325067			
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	113.891385601095	119.11586630281	108.697696080014	125.754741914111
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GNB4	239.24587884234	211.626970008102	206.321272734099	197.582402276079
	138.049846456876	185.016336026382	159.452527363763	175.485672103348
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GNB5	252.733973271584	238.904826940476	290.754210152709	223.058699622386
	168.594235675558	191.200215655114	196.860228537112	158.505363728431
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GNG2	123.794432024417	152.204730003016	120.514672572565	132.018833785059
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	125.231476412101	126.775180133301	139.336891718408	130.773945967285
GNG4	165.665796569389	161.295030274012	162.638805580226	156.437949042181
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GNG5	221.322724563472	242.902900881585	222.624150073858	222.268494113686
	669.330078861673	648.38049615541	536.067857235731	525.789451405743
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	183.963578322984	174.928155956396	178.455966482206	164.726382689707
	188.623897093065	139.573371281569	168.611652451329	151.889644436875
GNG8	168.805630890928	164.886944426276	172.992936821292	196.419891542139
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GNGT1	153.46645509759	146.099555861577	123.632031112507	140.36602776806
	144.991442620483	119.603565559838	194.637233028442	170.446156541317
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GNGT2	141.696969082758	145.393431956588	173.599961799334	158.704425428694
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GNL1	428.66614441422	514.354512083591	396.708183244581	467.387427864242
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GNL3	355.714202328378	320.305852961452	356.921627358141	286.506419296679
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GNL4	152.274957846518	152.581729298159	137.082234284426	141.645906784244
	148.179398287068	133.789738760547	143.229240978574	160.949030247406
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GNMT	122.673596593654	114.032874859062	116.552626146967	112.005939063045
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GNPAT	515.729905361375	563.011988279542	603.764427348016	565.609400092543
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GNPTG	643.660739343159	581.828502821435	720.907992182476	629.197022551069
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GNRH1	277.285526811736	251.472556189141	283.760131847707	259.643957326575
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GNRH2	129.421772713718	131.840663714409	123.330142002791	122.924017262559
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	116.294180301039	121.657744897668	132.641236788053	124.449679223202
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GNRHR2	112.957395064957	119.968081249475	108.715328458556	
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	118.619176257622	126.662329971897	133.838032323605	124.690141443832
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	121.146511496024			

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	139.63811945162	160.880152014981	127.640525889316	138.1342592966
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GPS2	459.854279050269	441.001837510132	476.495282784602	522.300029971277
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	243.501083338279	263.707476735938	223.551813819581	459.068582584181
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GPT	130.40770745199	121.599883734552	131.21740780848	139.597493526257
	146.291932367254	129.366567668463	122.932745723044	125.563646710294
	153.149523560021	120.793974839773	154.604363252526	127.473812381059
GPT2	256.202924421798	310.142754559096	254.552034511333	340.098306132634
	1358.29475573637	988.297682407351	478.180723959397	786.62709337246
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	4159.96851384358	5636.26097921507	9937.36968397141	5094.53287522452
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	370.798852361374	235.867149024041	183.619184925353	276.961847241646
	436.331333134628	213.877482604185	176.088449983147	220.288758600588
GPX4	4037.15442268836	4159.96851384358	5049.57929757135	4183.06379632713
	9560.32907282993	5702.11995823367	5240.40795364202	5049.57929757135
	2871.34694522381	3441.9805896226	2956.63335018838	3246.86605825129
GPX5	147.581827861592	138.1342592966	146.171094379173	147.178598908199
	134.346754381858	138.570150372729	139.690093593646	137.376602654929
	139.333282400639	134.10070984606	136.952914053358	136.929570710155
GPX6	149.881708604156	148.224587582189	138.639410179404	148.155692596378
	142.796371223204	155.319717753912	182.410688592378	160.72009357092
	152.179281925254	128.421242037748	162.723310549554	142.588013648337
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	340.800632878807	461.413469623811	320.648966489586	329.333236839082
	219.792171863015	343.946831770916	201.004491067972	466.141717595301
GPX8	906.886423608706	806.290662664708	516.577357935963	804.362909579005
	183.168629351124	244.668813440638	203.524150518033	227.32463765717
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	117.862532836494	131.873313581009	141.550553034455	202.278323489515
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	166.223079895236	185.154876233931	142.288110423886	147.022594294963
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GRAMD3	291.261765585473	285.102778078056	305.325519265387	
	230.589110372454	330.944203807675	462.888171502285	732.630306104841
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	647.666334416707			
GRAMD4	212.798133015556	223.253794809571	195.10410545445	
	223.339132121796	203.791916347213	213.194154171149	273.432712475089
	185.830435830545	215.558688906165	310.075815009404	255.462706428149
	323.086368767924			
GRAP	154.774977482202	157.076284096905	144.352987324713	165.954266127697
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	122.170662903259	125.612670947405	123.488418655586	128.668672935791
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GRB10	298.256131536504	265.29629764006	321.492900106953	308.088967616175
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GRB7	130.399501479248	142.365009028839	130.628967781841	135.434853296628
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	140.451465188624	143.937726155116	127.804392143587	151.9565369062
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	145.804420322848	154.076216899447	136.969124414576	139.522018789485
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	134.415163103911	144.946362772133	127.43866970659	133.651203764842
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	129.618097261902	125.443242860371	142.744045151046	127.12451522286
HAPLN1	146.266350809492	142.792294709664	141.626504154989	
	133.209211811498	142.964043764953	127.242627779136	153.485731788293
	159.334165651951	168.729301938015	156.934589811742	142.163834995141
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	122.182695593404	131.430921437192	120.925930409474	116.087696503753
	128.075865243385	122.281263517691	122.281263517691	127.202039384041
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HAR1A	135.491412261604	156.445294524594	155.993849743656	125.979152567959
	136.284283129801	149.625528206375	148.47415004128	142.650451413991
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	132.098421212796	129.846685899183	141.772724512502	134.534815676852
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HAS1	122.724429060184	119.943408501009	130.326980619676	115.194730717797
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HAS2	141.842919268688	137.666849842576	135.659271030454	140.267351731167
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HAS2AS	166.143084832472	153.159425380743	133.625358030199	
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	151.418316929551	149.286184588967	142.461941376108	150.244284323504
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HAS3	157.874624979775	245.766885283797	135.693520183014	130.233769058693
	852.926365088632	1168.68074786473	1022.55215097491	1520.59210521859
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	631.106334754678	636.781477235579	346.476121089685	491.635435224507
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	315.014639682046	218.269847477919	280.595515386655	348.711663415777
	236.676029292922	338.934501259414	288.968909550533	381.253673759781

HAUS5	137.614020921217	133.517685144186	127.976612086284	125.855451679929
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	149.103778494524	125.517076778344	145.210787864362	141.311749168934
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HBBP1	157.195967361907	170.401653214867	152.411545237204	150.36160186175
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	108.655415285806	103.94864861172	107.126004317323	112.605287278882
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	184.591789011195	764.493610798958	153.4392054301	248.531972733475
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	126.98588570464	144.842687993057	146.649944669876	145.139112683819
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HCG18	160.592404712197	163.373180928181	149.547635666621	163.758054869675
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HCG26	129.127563278016	138.289361041588	138.358404420064	141.970301370404
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HCG27	152.821735300697	165.773929204209	155.253032078086	166.803359138942
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HDAC1	1978.12229412176	2372.26073354008	2635.31067044245	2193.376951552
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	126.788749235867	121.065278765151	123.833219705499	157.11867820027
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 HOXA13 256.614964511846 253.975577255772 440.038896046559
 283.084102918359 276.184421402511 174.698724064671 196.363005912532
 289.368511254335 161.983987604 143.436675541053 177.793860516896
 202.849544035436
 HOXA2 191.554396977588 180.304585602206 227.614623963331 181.654319266685
 178.284294783418 163.315865817864 164.955263076598 176.300743660299
 221.45275440794 161.139253742858 183.255119298602 187.4351946569

HOXA3	153.574068503306	149.826291268485	147.024759173313	150.364511432468
	136.832494876249	133.579067514064	127.123123583856	135.844983721014
	141.397046998678	129.121598974852	147.955701866515	136.19725093985
HOXA4	173.115418167551	163.275138097131	179.74065086312	183.905926269285
	181.566951620202	147.86104992164	163.570018900148	169.909886347082
	166.981212790122	174.246705740225	150.42705284743	162.732574014686
HOXA5	759.802694618208	1172.4103691525	1316.31088187364	967.123240442957
	502.281584081805	592.284071247642	775.5664718389	531.711823481265
	1370.61156801632	438.7446527797	1141.13648305827	1259.38111177521
HOXA6	286.945784387294	344.247544510881	380.754569467715	404.726926716133
	214.38058301395	253.833756857339	192.009562635198	240.410292351169
	253.124449721731	225.96618659877	297.368197598038	267.028096234702
HOXA7	123.247698282967	139.607944722497	118.900338956203	128.618422306397
	124.961859983596	122.00079209554	132.821639676246	133.592691897675
	133.86835278231	122.339819585312	131.198284945008	126.982340580909
HOXA9	301.051775938853	386.738154577763	393.796356067403	424.495400604335
	134.333679772065	129.228874611916	124.35721327773	134.241917425247
	149.048057509964	141.644521617419	163.141010815086	153.366677608026
HOXB1	128.899712906082	126.404523759643	121.61143371132	128.647790058795
	135.036576196425	143.727514442914	114.749597426757	142.26998944788
	129.327645260099	129.511465164539	138.393565473857	127.532665057083
HOXB13	134.455623159793	147.858339902055	159.345467769285	
	144.858656365799	145.835240952992	155.902461107328	147.113541493157
	141.457040042276	141.262319193649	139.205887721493	108.730058525654
	138.213742418402			
HOXB2	191.25724234927	178.166289723365	199.477350542491	196.399050990244
	132.674061422332	197.112749959833	174.448910958935	302.809011218879
	264.604297630839	293.018282386003	543.584413650467	500.469781477166
HOXB3	129.297217956843	147.425856984368	138.391203321266	145.889336010424
	144.064214573005	153.169450192935	150.292858985795	182.833961304079
	164.472980733552	144.829773937102	234.996704304673	238.745953695925
HOXB4	151.734683227196	161.26917182967	135.323341505875	141.094578556895
	196.716209382446	159.065612005442	175.946843919065	153.985529457122
	193.084818760857	172.758230728437	225.238369884803	163.718595974283
HOXB5	242.614881095485	297.071121022183	297.636316709322	224.963277964548
	287.703569453502	311.157764305033	377.800067476868	916.4187683687
	653.500279510032	218.298791348295	2213.1043022626	1724.22121078776
HOXB6	150.287472248483	153.156264091925	138.85328409337	145.672496354689
	146.548348470748	143.313605534609	154.466614452651	173.182013165174
	152.783534456473	167.380798617981	292.965109701719	192.932285494022
HOXB7	190.204960255989	233.36028792331	172.961115357569	196.245297362955
	650.494111214312	525.515169794593	760.572409199179	510.061974830525
	856.039380523678	509.14726076246	848.154015576436	876.783710734594
HOXB8	142.095289977576	138.036876466521	129.522339467532	134.013748718539
	124.726035027951	148.079107235035	123.706910388724	187.673748059596
	152.107025120177	123.364999283696	1360.85309203233	683.861021234927
HOXB9	123.927736719427	113.557349524174	120.793974839773	112.664210248256
	104.798333931019	107.385565665491	125.589744938813	116.825172441325
	104.505454151012	108.79453730066	117.980052938167	109.52020660772
HOXC10	141.958902715369	139.545451634208	125.911259629489	
	150.394483608039	141.028377381019	136.923876486522	126.143886553557
	141.905641114703	132.021249712589	135.388750095746	111.826509343353
	138.269955723817			

HOXC11 130.396593013401 105.551878332786 114.704831217037
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 114.174153178166 105.375878824562 111.949644842971 115.738984899365
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 HOXC13 147.9084767638 152.11446058397 152.495540563792
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 213.097664319741
 HOXC4 148.215172022129 146.500312499353 138.628169506372 154.324955232468
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 201.256649338315 170.052320640686 147.70836747108 248.129640673859
 HOXC5 109.495342943278 108.830525786872 128.075198523268 131.652854369619
 120.967523586161 127.047679628867 119.972337070176 115.613348109569
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 HOXC6 160.415807880532 163.926432479673 148.224587582189 181.288519308219
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 150.896076207161 196.429685815196 169.028519464989 159.504327477065
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 HOXD1 133.241744350369 161.694109087893 133.180554954396 126.05295868521
 190.975263192006 322.684910198242 756.068695265118 159.05213637758
 157.787233338636 128.445065383646 465.102234374389 189.027594735456
 HOXD10 172.376544221034 169.355185349431 211.626970008102
 175.711836112986 145.45768403614 166.741762854246 186.854553034865
 162.127697884504 164.562302265155 462.265785715695 132.709845352383
 161.877378749103
 HOXD11 157.187894260746 148.530422089937 167.756465178715
 131.514114515895 167.756465178715 144.456324230938 144.170287726456
 136.526706711584 159.19183334563 711.166793546075 154.630837508249
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 HOXD12 147.978039160763 141.616920429839 126.659859384257
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 123.905462079972
 HOXD3 155.664126780859 161.419873271162 173.024402954772 157.765771942689
 152.54039461337 175.874387612235 159.798024189461 178.339211170442
 156.417000271727 177.281197832647 181.412790232996 192.353768499582
 HOXD4 151.885992695789 140.213080190065 146.122816653035 152.47429737104
 204.347931209047 198.004357069446 199.96834355685 152.155760355248
 154.798287249541 140.09417711803 189.348690353874 147.284005815059

HOXD8	141.602233757588	134.853253781256	142.299535614113	128.635684412304
	149.97218338771	153.047317528007	138.188522429661	150.391286215189
	128.468978498871	176.622758931306	148.67584969749	124.086902599543
HOXD9	136.428826558493	154.683723064797	120.752194675024	128.329985147034
	205.830321788612	158.374760929273	162.825380100343	172.446482096058
	154.954906872501	158.380964047483	147.174977926293	130.682112236817
HP	134.529744040637	132.699715693605	147.971492964243	143.388028226208
	144.417333931582	140.861849838223	122.216479103528	145.758423590784
	148.454344601562	131.786437478446	148.504996616452	131.230501496659
HP1BP3	198.760049629983	183.472290949588	212.607094117882	
	191.554396977588	163.821142892643	255.435582426271	210.266075382636
	226.114369645703	234.339913501761	199.001860912128	148.930073905413
	201.637540930213			
HPCA	140.82351325907	136.735930829008	144.738871562895	143.641777655752
	157.200582422961	152.503159091556	158.041568121766	148.466658640201
	153.574068503306	145.185902174023	152.463553409903	140.441521267218
HPCAL1	282.282663608264	330.908743070095	264.158648784101	
	355.609033348692	923.130629121442	334.350011399462	263.005303710717
	321.524921332256	376.082040863747	296.721891842563	220.896363324634
	392.539157974899			
HPCAL4	140.36425603453	141.426756696799	154.698312173556	
	155.873969001251	168.611652451329	163.516075721791	160.769011617127
	158.639313207233	155.6299578128	142.34471764492	155.086559474139
	157.748641658052			
HPD	180.501409705275	179.674744176904	204.637887777803	193.609985124825
	154.657316209848	145.96012463103	154.528396813382	166.925695810781
	155.55288776049	153.219954133957	149.696766215866	162.358237198517
HPDL	122.804934452095	114.805810485989	120.964862799634	119.795945889846
	157.176001400747	132.398041172151	120.606354515072	119.612288460361
	120.714981493593	119.746227888415	138.859261763075	120.177385114315
HPGD	284.473085899219	455.124190541055	450.220658078322	283.27806319488
	1108.61301774472	4404.79209330918	2149.13404212591	6441.13602696535
	1906.81344236287	189.647009287524	3810.98043907046	2253.7522632414
HPGDS	145.079450753969	156.609370182062	129.511465164539	152.717642489582
	135.841309719081	154.758831302515	138.464793389999	146.915247627846
	141.97478198531	158.085935267091	135.237042337721	155.62770968777
HPN	125.326393776938	121.855752708908	117.207266754941	123.762963668211
	123.347836436966	120.835207882788	122.174036435094	127.011594171986
	125.170874841845	119.312201620247	128.806964077824	115.51493368527
HPR	142.342811880173	147.132625797946	149.865644080359	141.393814611166
	136.249621724093	143.794453011397	133.324531689254	143.572668991313
	135.666278507269	146.007311764212	152.134895623504	149.712320986646
HPRT1	355.519647649551	365.541609015117	352.897241809959	300.83667045718
	1070.4597488302	831.08287594363	681.172359997071	935.423045210635
	596.076764072945	1181.1611856364	487.597040819879	912.143424293236
HPS1	172.667770359278	157.547814187442	165.181215117323	162.047249964859
	209.180298459605	178.3652866131	168.552631639996	198.522123898437
	179.091917512822	202.230920499592	153.111226896983	191.692830869809
HPS3	155.974463324915	174.375388013694	221.070448906398	187.145134088286
	211.135364208221	221.869191666931	249.858562350415	251.062649517773
	220.379186481273	210.729945718068	201.676984786688	222.736706411035
HPS4	138.317443162096	135.589211439847	142.356747337127	138.325950428197
	129.344834474578	140.943732564849	139.287871460674	140.613151527886
	140.892250639524	149.91705328815	154.537240112989	138.129281196474

HPS5	200.127994198329	188.836327151669	191.38608906576	193.938032040991
	142.558109812638	185.997327421952	167.887047631073	203.206743799353
	208.385295246155	214.714726648332	184.187847236508	164.562302265155
HPSE6	424.134483971176	518.925188630246	561.251860964966	497.269957926657
	1628.24528041404	664.19083888799	1411.90426595229	798.1490651671
	876.288248962843	666.344430142655	975.685771692095	1286.55103838368
HPSE	154.47187360425	142.853399942089	161.960392594363	152.57905274438
	166.904990069484	172.091884817207	154.539367933684	163.042083189818
	169.428195354763	210.605864685448	138.363553671822	152.79367157305
HPSE2	187.63609695026	169.895672129542	175.537039794925	196.470718183575
	184.923312649584	153.187148832063	160.589575894314	168.521601064374
	141.724442944322	159.58125728432	125.631073476381	166.944701842349
HPVC1	133.517685144186	132.002835547397	128.495276191943	136.919702354166
	129.130212375815	138.397152876585	134.288349336742	139.526241501184
	142.365009028839	143.776637809106	150.360754064321	139.646026806298
HPX	165.41729888767	142.19728670565	163.143613079037	177.72965427263
	139.825088162247	128.63301490285	141.882859092658	140.683411903185
	138.212860360467	140.876577029209	139.378915474473	139.72868421672
HPYR1	124.176944998906	131.879526177089	130.342425029134	132.223321299997
	137.7724100594	130.590195477461	129.935532080325	123.347836436966
	128.447393268611	125.202468372015	137.054278745724	125.926774314737
HR	136.614620534169	145.378779757104	134.524644163286	138.566954604414
	131.773304233929	128.071379991958	141.842919268688	138.695481214267
	150.314462939164	135.349868925415	146.669620721254	133.948997488604
HRAS	233.997642139328	275.929414239664	221.719848707318	282.392419584508
	420.017044147123	251.869781014029	296.657844888195	252.919704128539
	258.489608621438	495.655170027296	377.800067476868	254.722836822616
HRASLS	142.051259785804	150.417169156755	151.409290231274	
	166.825501664231	311.966971734249	194.686527131656	152.99686989829
	145.085091507228	154.491373296392	184.742960975938	126.704076078563
	153.338193960419			
HRASLS2	154.291717784335	147.870549240703	177.246890307643	
	157.096799934494	167.07092218037	153.756213924949	168.720694813918
	164.256764783784	174.491551019128	160.435789207464	151.004738508108
	158.477017294725			
HRASLS3	930.704688414069	985.637230639964	1023.94850651125	
	1077.95929298567	355.443758121675	428.66614441422	1010.05884008623
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HSPA5	517.23393716516	454.492780042353	271.356289141017	457.130051460676
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	625.932910814208	255.945470052489	529.228238133018	600.162650426961
HSPA6	195.384273821324	185.088667707155	220.60173086462	200.98533822317
	256.924134409998	217.778414825515	199.681103910705	187.264411519101
	303.795701960506	283.499120551905	160.293522619371	192.69687837782
HSPA7	182.32514927211	157.717145014769	167.408314067262	189.136114953249
	206.257167235126	208.214764518526	172.973175988757	144.777043589925
	216.353502371227	225.75155298452	179.122374556365	175.752091217351
HSPA8	3430.76532174701	3130.30693451802	3807.16206340771	3424.65126200697
	7332.15849011291	7292.0342195035	6105.64727031051	8958.34797715349
	7992.84111657183	5467.84611694564	8368.88320476021	6919.4226838505
HSPA9	1561.87054049124	1594.05763963363	1657.72357544205	1400.81554054664
	1213.06007305892	1610.38263368771	2001.92441724356	2253.7522632414
	1415.67109281133	2350.01764791897	1696.69982157582	2328.65814406636
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	21110.9013462062	15745.699731183	18953.8127741918	22182.4877079778
	19087.9532735841	25002.6870134094	13944.7649147227	18287.6015702456
HSPB2	314.4408959517	341.096072280715	252.789376168324	312.808044035117
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	119.899649497032	137.360220389719	118.239637776941	130.812309202831
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HTATIP2	410.337491313251	426.995700632434	527.930077857945	
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HTN3	146.08320115156	148.610537244399	137.290687951485	137.982667022604
	133.478829770103	149.657951204528	136.209796259197	140.427188241455
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	122.514826802737	117.428152859221	110.510191137073	114.520066232155
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	124.317870455205	137.012646671173	140.038295509875	150.613624696604
	142.829099538363	127.966883271903	124.961859983596	138.28745132277
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	208.348515119045	173.592875508663	185.876046259727	186.321879879561
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	146.252974508529	138.17454314053	122.512587751135	135.377118045038
HTR2A	168.52952604693	158.95714101556	139.858812885649	148.493435517221
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	156.407166112409	141.513636348978	166.341564850299	145.770601609392
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	139.736465430177	135.638156623519	138.566954604414	133.812639120892
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HTR7	127.447218258785	127.218362452043	112.10312035128	118.047978285706
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HTRA2	229.181725450534	212.016247864691	235.704824490397	236.082185670774
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HTRA4	159.43317827517	153.996429870564	166.104915784875	153.943227610765
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HYAL1	178.166289723365	193.358728044565	157.553632802599	219.171591031864
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HYLS1	192.59376129133	189.324370290702	219.619022209985	185.063870458561
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HYMAI	173.816408146725	167.958792571511	158.157097243342	166.173429365582
	146.345451252228	146.198331189991	133.103403333542	150.109192774079
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HYOU1	231.462907786174	269.673122990604	194.500222559978	276.925017614147
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	259.252807304272	195.963361515546	328.919401925375	268.600782558985
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IAH1	700.353187874339	597.189355986293	852.436775264873	590.515758538373
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	686.923164688096	462.437471715008	774.997895985917	571.439520427295
	500.643499051523	573.244735292944	796.439819579938	686.198351821711
ICA1	895.821578104681	806.88003660673	941.572186137467	717.025533065694
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ICA1L	149.508432746895	151.113342302947	171.212749388553	146.49022197174
	136.211694310501	144.227440632196	131.298129667973	145.401101974736
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ICAM1	141.21138348075	150.203281104753	123.857527555048	121.803676441059
	144.954595802474	140.427188241455	128.680762033378	135.501192996538
	172.652645920958	168.854819201403	131.724061631389	122.010855318111
ICAM2	362.742120043509	462.948429969719	236.141982516399	425.59810308048
	202.568071395884	222.118666699301	221.768507175814	282.604890044452
	413.983821839274	178.872635061826	327.207408852474	985.087150371964
ICAM3	288.823376348944	287.402339322061	271.945851739635	295.099840299681
	436.222568287601	581.191693771646	393.198813167839	633.594811068524
	618.437282203498	300.675907594637	429.812058546782	338.326304736048
ICAM4	135.513494853742	143.587562550004	141.891508908764	136.812841133892
	138.82269002406	138.990971069382	138.050999864689	132.555211779043
	144.425214066833	131.528729642144	147.640100078933	146.442734810495
ICAM5	160.17208299932	140.182150393054	149.829363505519	157.337193457189
	148.052222389368	147.132625797946	146.225422797118	138.521952850632
	147.93088503956	148.323729699672	136.040524807653	151.037282417145
ICF45	163.203582580217	172.008994980259	184.241640200823	166.868688936939
	140.348718082786	143.744075931566	158.171302275984	148.538400348149
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ICK	205.65398844108	219.080383154432	243.622678182687	213.584269089596
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	163.636550341231	172.531836863525	200.72147365413	176.214950733324
ICMT	330.758879244143	324.25775261173	299.754985162237	391.400480065
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ICOS	171.880470629305	165.553581848949	162.919656039331	160.676606760965
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	256.648540685098	170.858049313581	219.709231012465	166.209190082084
ICOSLG	163.582678113215	160.192540519103	158.208998509937	
	149.897440750742	167.350290326189	166.533191390639	171.384487293154
	182.152956182443	153.154592981962	146.091822904705	166.209190082084
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	5347.78127066964	4251.82554412383	6281.01687932005	2189.53914329263
	3251.62784659994	1698.08853832248	3876.04966263281	3598.30438198858
ID2	831.08287594363	817.342172321486	708.534025308731	479.638653311025
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	1159.44907165386	281.037762232619	1747.33558205825	1713.93035637146
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	174.26780796802	157.909530751723	145.724294862079	184.102171963542
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	2285.86163259073	784.72162514331	4536.46344538492	1769.6386910047
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IDH2	737.193295872614	830.455793617181	685.620637807134	1524.46745239811
	1271.46608195833	611.540759532294	693.180345649331	591.437752991512
	835.834013018438	868.066644155313	473.057488824363	654.52788411248
IDH3A	312.177191402945	295.330307669482	411.039234404499	326.354469134694
	226.449705559354	350.58427958432	266.057472924341	243.038392457584
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	575.546802138889	299.616447269111	310.174932137546	265.866465528654
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IDO1	151.858466721347	136.214432257698	132.069175779393	139.457084084368
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	270.360397503276	252.697160031025	293.12968694683	242.948136060281
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IER3	565.609400092543	1316.31088187364	744.225336494008	553.198321853202
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IER3IP1	331.523536427527	270.462865174106	245.042781391047	
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	410.42088953434	445.763740779039	387.403502892897	275.696829424061
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IFFO1	580.164288826741	507.827473844576	525.138476928759	634.046843336128
	180.690409026809	195.981555981238	170.145574727175	219.080383154432
	278.428310548805	233.272000923172	282.797367565702	183.988537525989

IFFO2	316.237519859859	283.760131847707	256.648540685098	358.732947927445
	314.949772661046	554.282040414368	447.059120541009	228.926077117474
	348.413827101046	506.290241222253	215.718714189719	226.449705559354
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	153.468933239223	279.704940529618	515.432065049838	313.18989508207
	408.60092780174	947.766127685083	386.461076717316	572.262848718437
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	8739.02966610274	726.556553101727	2350.01764791897	513.036729214095
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	672.637760135254	200.767743455226	291.537725613819	346.173614351499
	260.356834114611	318.244342364572	779.340880980422	222.134519361117
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	184.775001243453	177.619101765848	197.378801636702	300.150235383065
	409.206158277764	317.904396212359	233.029655807246	203.19299227665
IFI35	594.180861801958	466.083451075744	355.714202328378	475.927798702033
	271.004741629789	248.16594076495	656.660582895703	639.184296110069
	698.882871686866	362.795691170335	573.244735292944	350.926679856514
IFI44	850.562379837947	299.29004204677	233.884660128222	291.313681141442
	186.377571176623	234.895245871534	811.362219801362	275.39986964837
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IFI44L	1285.02292965374	259.025042304848	181.566951620202	
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	264.805236346895	413.687046868111	141.972403120632	223.872330412144
	174.680918805036			
IFI6	3749.80462365748	1262.96801072965	726.731270955732	1119.71228054585
	2285.86163259073	593.639955546556	4000.45196171119	977.227184625781
	1447.07989164988	830.455793617181	1479.69309189156	690.582550537485
IFIH1	281.618175110153	195.577739376082	172.438141471784	182.997980582218
	204.438365139666	155.166786601813	244.280971257965	230.161369375718
	339.917319653382	278.192669077191	318.561557474749	193.689806171113
IFIT1	600.757699463777	319.768792196774	347.292438587205	328.550286726543
	152.221694141976	182.633773540249	377.951523644306	174.338440780636
	199.170488640762	185.691922436569	199.980312703646	164.48570046081
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	116.321559000405	116.897299691798	112.264005988662	114.466368742403
	114.314425748312	117.841844605128	105.839106819841	126.837151457845
	122.716563069312			
IFIT2	467.387427864242	280.990656342284	315.565349831797	297.636316709322
	200.065184172871	142.178467668037	290.037325939883	202.397972518715
	288.182388699147	203.704734790602	363.594808277506	199.597685421675
IFIT3	294.410833087913	172.750926094884	192.96586114861	185.128661141884
	146.323776429268	141.181931072161	231.044588483625	161.906823008445
	244.596233138747	168.37850726499	200.045606111354	202.741211613885
IFIT5	172.934156790775	163.416011199431	152.838970689314	139.493025452991
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IFNA4	131.181537219479	135.013075032671	131.373012256275	137.639342727211
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IFNA6	117.32734978289	126.364445020215	127.814109293214	128.575364985954
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	119.427342766092	128.777337552038	133.228074579352	118.863150637476
IFNA7	136.461182044855	120.702740607924	125.768053724055	125.342580368417
	133.500750738061	139.515794685984	132.118118271944	128.671626815639
	127.685469299406	132.509125105338	115.310953814885	137.298549014192
IFNA8	145.128919984856	141.356127724777	134.514251897045	152.104170622003
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IFNAR1	372.757091748175	422.02217814979	418.062540009856	
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	182.545896049446	214.785381549181	204.544266331066	239.827648772906
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IFNE	158.902676384853	156.430981244063	135.097332483841	129.257947818865
	140.581943144813	136.627904756283	144.736213465651	141.374831983971
	148.167464091421	140.146894533044	299.234482744038	168.37043566813
IFNE1	147.341597963918	148.412895185127	149.387467833684	140.431591727649
	127.887666721519	135.724378638305	138.907036194384	144.292679144059
	144.219104742099	141.301503201175	210.711890471222	147.600825146067
IFNG	132.786500984297	121.957155610892	125.809027384863	125.955431094455
	128.200531810126	119.972337070176	122.180428703208	130.729989463558
	160.92643755328	125.311403516443	151.577450119302	124.272447276746
IFNGR1	895.463355957918	851.633522004342	790.321331435096	
	582.527835746927	964.093668483033	1477.10828981572	2328.65814406636
	1170.07851727046	1333.73334006986	1758.7809492929	2271.82656399253
	1774.22769195939			
IFNGR2	1526.66232186013	1501.18820017008	1205.45751308367	
	1470.23096656138	2166.68174726155	2215.43744802035	2236.73950603157
	2048.13524244516	3581.36347643133	2334.97297889593	2775.84742592713
	2672.77147589342			
IFNK	132.963761182049	127.484178603011	137.966987037709	132.407736899761
	139.174188535843	132.113317893587	132.75673287656	129.687743133943
	134.058035351684	141.03218895811	106.147993332294	118.833188167696
IFNW1	134.32174235533	138.829793136954	147.301909062399	139.524233960073
	140.481148289418	142.472724215037	139.991780068793	141.426756696799
	135.416008633632	143.229240978574	155.598586699376	152.733409144267
IFP38	744.808064061459	767.861763134136	892.868661511516	874.348941257592
	875.7694907383	474.517750753745	729.202002368627	643.905401805862
	543.933989965705	991.081498002429	966.281849197568	386.85874184746

IFRD1	344.379733302418	274.179232297038	306.277823025572	241.134385745554
	233.671878221507	215.607567127195	210.103974340881	240.147082836599
	208.611557959861	273.514200733343	192.914362049985	224.424524191566
IFRD2	259.184713471619	212.291528248457	261.322374889497	300.314088267108
	734.71562355687	308.517561840596	261.251965523684	251.61451602376
	311.04252785157	382.233826557803	269.567704345075	305.854543429221
IFRG15	137.192570825063	112.252555403121	118.249148086655	
	111.820208385514	134.485835304676	120.565485864499	131.672014089487
	134.633286312653	126.230887413874	169.920799931309	125.12823219142
	123.361179535626			
IFT122	202.797135825668	216.903719298575	213.754156680604	
	255.462706428149	183.226294747874	163.681014961332	169.556358586336
	160.865949438448	178.854873582873	175.752091217351	159.891562221587
	159.655362710407			
IFT140	154.201375471487	154.309257657136	154.760697311395	
	134.335309757663	227.177100762395	141.244589488591	143.494511683426
	152.752870674108	144.861804210272	129.570960882942	408.60092780174
	197.91325268683			
IFT172	207.123420880185	226.565823278767	234.895245871534	
	234.020419732787	200.371280127668	163.538862303362	226.763252784108
	157.172970235254	166.746037983859	158.8054811093	167.42476096854
	156.361037318986			
IFT20	294.368406238222	265.260411490697	329.722135361491	244.251315474587
	663.782083028745	373.361263985383	555.959424692051	521.714719320355
	599.926717145115	396.708183244581	438.431160975498	346.691690520054
IFT52	183.214922844221	184.377923161698	213.813667557079	196.908612360694
	200.204064462384	232.986366625889	287.195290301363	187.430140289193
	199.01458214661	207.960802948119	200.688465653117	214.639374741553
IFT57	344.529927973082	354.132752995385	298.403224729528	345.062426573519
	160.520677267863	300.709410518382	186.388067641269	177.491294133515
	212.710910778949	158.795335941084	174.549929320587	176.371404525626
IFT74	563.011988279542	577.33849844574	680.509421043347	554.800688991977
	292.965109701719	391.252450588331	324.949988230276	445.661863626419
	380.146996799549	378.728516779744	513.518424350159	283.27806319488
IFT80	147.461480849333	137.814391189269	144.942289590793	143.092021593505
	140.421945574721	139.103395748894	145.25774926819	139.442091671938
	142.858554460651	143.301399292539	149.856041300199	143.647714966406
IFT81	150.911524755251	139.117776552573	149.597396040729	130.354641020141
	117.028963434266	130.385747820089	129.566451901256	129.413729619216
	137.504147221623	121.416038813102	147.319360896679	137.79714923769
IFT88	193.660159482867	195.384273821324	193.801858215025	155.413300826229
	162.909468312298	170.024833610695	155.30926640293	148.1283706199
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IGBP1	705.987531074737	583.314509855875	821.465895280454	459.53652431464
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	120.891023626809			
IGDCC4	351.337287690674	268.78904911703	210.751430486845	
	225.890195278753	131.972669163481	135.693520183014	124.735542880811
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IGF1 258.16437138327 224.497348027469 176.735168607281 215.300064529551
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IGSF5	121.689416823766	139.108656684059	124.676743480622	131.539170756533
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	117.928456234796	112.943630133093	174.396061906109	115.128667174745
IGSF6	127.723052839953	129.389420352857	120.62139061084	129.334217858282
	134.13812854554	130.278980631435	135.907702243922	172.816477996646
	206.585387130993	140.383646018409	159.832405510505	129.007924852801
IGSF8	165.350777445902	173.726420791056	193.522811257085	196.638594797353
	267.869879189095	204.470661830972	196.638594797353	194.637233028442
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	1201.82026045778	616.523853569261	592.822841077599	447.182566890086
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IKZF1	185.063870458561	170.099045774947	147.488635834397	149.048057509964
	144.597060118959	159.154102271517	153.741061283101	186.077477713775
	226.763252784108	184.758754197435	167.724233915361	143.712450441816
IKZF2	147.085006263446	147.937679308903	152.194337248455	138.618761382177
	156.324643994552	180.501409705275	174.962380276394	158.528301072565
	158.244741207036	158.6067091347	188.605328108654	179.950904921667
IKZF3	136.524640445539	134.918496279185	132.43999768718	128.221548195595
	131.757695616207	133.602870982718	129.580421464913	201.49630027392
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IKZF4	237.641190133427	256.495848662843	195.078843867124	262.577672828611
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IKZF5	145.665155500862	142.013370954791	155.3016514732	134.936025073531
	159.738700107615	167.751604259111	144.092864444802	153.899573902499
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	117.773743603829			
IL10RB	517.676093149981	478.38361571213	485.136339836897	
	448.260934224454	373.545629693667	571.950858678221	725.065727257421
	741.433093896472	748.38293089716	748.161769171818	1319.3522488218
	799.132592914065			
IL11	146.355229778997	146.595540577994	136.008118769513	138.818492907643
	159.23414970379	149.250205265163	148.327340543504	156.077604146143
	157.344758285153	146.108551647446	138.885230982475	144.48495176385
IL11RA	747.804958601763	734.469481390593	682.730262408017	
	958.63560158343	169.933706225406	237.734385188542	161.104993402456
	199.87003105816	189.971144220643	173.21291920566	188.181647474317
	158.565676210997			
IL12A	139.508029141287	120.135349166633	114.805810485989	106.437660157036
	113.356070669308	120.479270037091	125.157459724842	124.679444852938
	121.438875373878	119.739204799544	140.373554273624	125.549968985241
IL12B	105.741092375243	121.799209715087	109.156349683299	112.635430248416
	121.076652800015	110.033746435328	107.48180681159	112.528908277828
	116.796995589816	106.667175621971	148.380555606786	113.005774989833
IL12RB1	125.065813262416	123.786227856015	133.101674466013	
	124.359615295938	117.803508098322	127.83967243279	122.535728427528
	134.076865693417	135.36523178082	124.796876920269	135.779516940893
	132.149864626575			
IL12RB2	144.938908763591	132.817645625115	134.477081392474	
	142.900756181761	145.378779757104	152.898148619937	145.190896872008
	145.393431956588	153.114065147266	158.179586948369	155.747694056319
	145.505223177269			
IL13	120.300291760091	115.242526386551	106.263441906404	112.520199390427
	115.316430915446	122.830376253922	130.033927910392	117.089207321783
	111.820208385514	111.276543583667	123.072413274454	115.101971719657
IL13RA1	705.020444579319	796.439819579938	650.679096367632	
	562.891241563711	1077.33874251157	1205.45751308367	1290.39741199701
	1034.68475089075	1353.61552261489	1622.17491781572	850.562379837947
	849.158029646233			

IL13RA2 141.075421936212 145.632060621034 137.354782768068
133.449527627723 148.235495611248 158.241349852419 160.27511502306
159.43317827517 182.263724979519 159.798024189461 112.036753245281
158.287108069245
IL15 165.613274361543 159.926719599391 152.543005423742 153.241806795134
148.922537778634 139.818998514364 152.225646808517 157.927709922368
159.461778054423 179.35113214277 141.587109176431 149.959767051801
IL15RA 137.975369568585 143.281050499332 131.679566454851
126.887989471803 124.362182111222 124.02280670421 121.492896642899
125.435268901131 128.720517906732 139.234549949916 132.579323148839
129.875986080057
IL16 146.223880979601 135.880955433228 129.808590871788 137.047288508371
134.512204051277 121.164978896057 128.082956839709 128.5581535393
140.955772094739 126.910075365358 135.25612528874 128.229729571899
IL17A 148.507598818039 158.919340819357 136.846912694371 149.964827055916
149.467626202395 154.798287249541 131.911579676047 161.00635457883
170.243136294537 150.820808770853 154.990319019521 163.396651801661
IL17B 133.845056524142 139.934460900409 139.607944722497 159.327764602722
122.881793230233 117.790593990682 118.180919555585 112.78323842342
119.275061991187 109.978693735206 120.883785696583 120.355844117573
IL17C 142.379120254855 156.368487784719 143.080742311914 155.813740201987
130.962368929833 122.180428703208 142.036037957345 134.888404433315
163.647306551474 141.604832186257 131.934680869554 134.931263946202
IL17D 445.95114929414 324.203537490975 327.89660021611 317.163768837813
187.48055574295 263.448958595597 136.678188851101 144.498245098592
163.380402251758 174.698724064671 167.003917876371 135.27739087376
IL17F 115.118170902045 117.028963434266 116.346181133756 122.436106757578
111.217595631623 115.371180170291 122.133292722932 131.724061631389
122.535728427528 121.134305707234 146.770267005869 128.251087452744
IL17RA 203.223604138192 186.296882059398 159.203584692924
197.02284475852 211.966139902562 192.565733545715 172.552923333095
175.452986514346 192.565733545715 193.292596471113 191.170105307944
217.202541167691
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154.900676756492 181.288519308219 176.901042102323 150.313058722346
194.941454173896 235.372592051464 137.700110923212 138.576978828316
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IL17RC 166.305219348008 176.167129202773 153.092864798642
185.673549367125 200.001438979007 147.164348704012 159.576585660511
152.812142230375 147.26204590693 156.010027635627 161.761125440228
160.140509175287
IL17RD 2076.51786803222 2328.65814406636 1710.60409578293
1957.48508632607 426.464641742092 2059.09598012857 925.656701707763
1323.05745869565 1040.29664343743 885.927972780392 1731.62376348283
1111.47772523331
IL17RE 127.090219286772 128.367370419533 125.217733034761
124.602474178438 131.827899207029 129.114161128113 126.314233529267
129.190900922265 124.563594928763 128.837901660985 133.802898895457
140.125575976708
IL17REL 118.510960607141 131.261903118177 119.459625817735
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122.696382705233 115.914842445934 121.583096465567 136.19083681188
114.860437706855

IL18 24098.0251582624 25002.6870134094 23427.4695172122 23427.4695172122
7753.61594300904 25558.9005130606 12916.6904389018 20510.096303537
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IL18BP 164.753886197136 171.722839172783 154.679076303046
165.565284723155 147.581827861592 153.934872807607 163.340435089911
189.027594735456 189.708396835236 163.873355370767 177.696849418064
157.909530751723
IL18R1 184.819937046061 166.988725688589 130.778164962583
180.881464829981 139.308325848216 151.259426521768 143.040254576088
236.292053621233 186.388067641269 168.365262340217 170.052320640686
141.180647782041
IL18RAP 152.769931978291 138.316043447788 134.537123332992
137.731390340708 139.404820141366 167.850516495529 136.647239621513
184.029968090084 177.990274115348 161.849023343715 157.04599638368
143.603022117503
IL19 119.01236045062 127.808579455383 125.982423431253 117.575009754326
124.650711299942 116.973126196102 128.421242037748 126.019246614944
127.471479301983 122.290822230565 138.274057264688 126.578035793406
IL1A 123.577138762427 140.487887891414 134.025385181979 129.260551359984
165.896420029269 175.428000742222 153.457715729768 194.413759761549
215.866644799363 1978.95750795951 485.87138934376 473.853999833395
IL1B 110.829107724132 126.589865262427 110.553759711075 115.827175143972
117.015097017246 142.752536416014 171.579123521304 132.20887307183
985.087150371964 3384.19521857242 175.044940252247 239.003718699156
IL1F10 123.042372128864 122.197625748146 124.927989289122
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127.251594986725 127.490889148422 173.520662003159 116.810827219571
123.952494134263
IL1F5 121.410606617535 130.33205883588 124.466986821169 125.253637835638
123.062390088305 118.258886189283 123.45004246675 122.770033312519
130.564962937297 363.150472154973 122.005340508177 118.850495684547
IL1F6 142.153830345183 145.076068630259 144.131743978192 151.210814209064
146.320758317435 129.471713415228 149.350630572336 138.386391726042
128.280225530201 144.994931561779 134.413962468434 132.233396667074
IL1F7 131.865164933746 130.63490683087 141.767311448808 134.888404433315
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134.13812854554 138.480633738745 126.98588570464 137.353149614081
IL1F8 144.148833164952 151.423936838934 141.33919297402 146.042460762767
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147.341597963918 160.50439457257 147.973274498131 145.296229550382
IL1F9 117.773743603829 134.275773172492 116.664031217378 126.322527679273
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IL1R1 324.871248300476 259.625943627223 171.97578836712 177.919885012006
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285.63245179313 208.257420634745 385.050282185255 138.67221078031
IL1R2 136.171728950893 139.955389033983 136.7766893627 135.463385553776
146.755803731358 152.624623171797 132.91094012928 184.819937046061
158.380964047483 535.49374437073 155.582036890436 145.576880854443
IL1RAP 135.697550878438 130.854818615966 133.274292647041
124.062863592295 135.835518477299 145.010108826238 135.08927101395
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IL1RL1 141.494666823639 145.665155500862 142.793573585472
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141.905641114703
IL1RL2 127.496885890349 129.195962576953 139.195281937545
141.850952191423 157.83121828793 144.2753860947 160.628894266843
148.423303776817 147.378228560979 149.628421263062 159.611551480901
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IL1RN 127.585851003779 139.859453080651 125.863969666806 124.327827104244
200.790119570144 155.595651896155 193.930569647995 275.468194644053
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IL2 137.075665247855 138.825961991209 150.690143057308 139.256416415149
151.239879652761 130.416957431512 151.961811748754 122.187031504466
129.802596741962 132.739435456445 142.736148814019 137.53070284697
IL20 165.581217879395 183.152005135504 154.143331594812 173.287859527767
156.986053534635 175.199369463703 166.64535048582 144.470642732973
144.708780756278 200.934618257908 144.992993261203 134.810212106122
IL20RA 134.044789094272 142.436624546651 135.937066152894
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IL21 135.343380336913 136.767307268217 137.423810400996 140.904883114871
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IL22 130.215290990406 136.22416508552 126.791714564926 135.518752716008
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123.720229113779 135.32730674455 129.290542121353 132.628358688595
IL22RA1 124.641892391159 125.160161268474 120.436408685057
113.627435441258 122.619429537799 128.093945009882 123.577138762427
126.877293296185 147.808262170269 202.00431685587 142.907969322845
139.6492947529
IL22RA2 145.562772839517 140.446530307169 131.70505265403
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IL23A 137.773960847088 136.507961715591 142.368601917778 121.61143371132
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IL23R	120.706421084476	123.535803027153	138.557464672111	132.668344126625
	120.55570440025	122.903428611669	115.981530322377	131.086434891752
	116.221426977629	123.007103885415	139.452773383624	129.365004129784
IL24	150.629932241703	146.376149543438	145.773932754923	144.387375194186
	150.672985449063	145.553219709768	159.311949668403	138.237030685795
	166.415922313464	186.377571176623	144.738871562895	148.329635131296
IL25	169.368090266817	166.007913607742	170.531713392258	178.628885995439
	204.031081842809	165.737618983611	198.244854812728	175.262884960324
	176.267796612066	186.747375844319	180.265418365803	187.15740398852
IL26	124.59937620719	122.281263517691	117.980052938167	121.888886996534
	123.09149124559	117.65847906412	115.520278378747	121.072192130078
	133.069347559741	110.212739445	125.452973441746	113.609215169397
IL27	126.086991456747	123.117923525539	122.519746599387	118.372047967248
	127.052618800004	124.876226351169	121.30744400137	119.95666716163
	124.710368327189	113.542803491215	113.440171712791	125.405373274081
IL27RA	176.347535860374	177.182321788711	148.012353232918	
	181.771654391653	177.742616962629	169.744100665038	170.748911334847
	197.049616858296	232.699786290509	237.171424222756	182.958991847218
	161.608941774391			
IL28A	130.758707848676	122.512587751135	116.802432258299	110.304102941202
	123.21112178671	115.29099102455	116.572001618531	113.529619135543
	126.913782515341	117.408465686218	142.688809469455	115.327402810793
IL28B	137.42213762011	121.181654892305	138.708304921088	132.399633003253
	139.785767470943	134.319316977485	125.506466437764	139.232893342069
	134.796088225931	130.110413621436	125.390139830237	145.372579207362
IL28RA	123.835583753941	141.186913979346	127.799190369808	
	134.607501073433	194.240372898704	185.765000029242	206.413554839865
	187.812436252228	154.487546030444	314.182403961681	223.89854167651
	250.718986968076			
IL29	130.06068534054	130.613760017864	124.321503368855	149.135934269866
	126.619475852751	132.024244263352	138.280481662932	124.080382291282
	126.699152957332	136.904851056919	125.132610413051	129.642952083513
IL2RA	149.980924447339	154.250656489421	149.874424976813	160.825408895349
	150.51056917809	164.836381332774	154.400124981573	170.858049313581
	179.163748161358	175.111460651956	157.240466990977	155.715728894101
IL2RB	137.947606003247	162.127697884504	119.701313125748	167.776363541939
	188.118989395838	192.532222258033	148.28101912019	242.221324619171
	435.983803453746	239.277801396834	286.996908547553	185.332215198617
IL2RG	154.645353009618	164.553511697702	148.816369706133	166.440530119785
	139.057572927874	168.911840239685	156.911538642765	154.947359473187
	159.895303363094	165.960176666275	154.43808450305	162.216377983292
IL3	138.12651823109	152.61583482402	132.492444216154	146.775403409562
	141.25089277145	156.173099025259	151.744902566627	151.632801137039
	152.660373241584	138.582427155109	137.029726467523	146.099555861577
IL31	121.722412245175	111.09179957013	122.089332300031	105.606964521964
	121.95061962467	107.156457065853	111.596690019694	108.768730405582
	122.292692083352	106.576058729493	124.918089223417	109.255470590389
IL31RA	123.598210440312	126.132339293132	130.097543328456	
	128.653335099674	127.514381389109	124.321503368855	133.685254707686
	128.0805889548	125.126100642395	128.984613946021	142.888281750232
	122.120307446003			
IL32	206.321272734099	207.254220247481	144.219104742099	214.803167803712
	249.590923098575	167.260319361746	215.607567127195	238.344676327918
	606.162976359615	328.33387481068	289.956528242564	195.019706886336

IL33	261.844708446856	234.789040617681	300.675907594637	245.454945056317
	119.094868654252	135.719702250709	137.947606003247	131.050255325564
	157.997750997487	152.129092774005	152.373931758229	118.838332117453
IL34	166.040918339519	153.505155981348	151.40067812803	221.889331385023
	138.667081004369	139.256416415149	141.191500203423	140.518206716196
	152.729355306724	151.051672692659	139.872976072847	141.805028495425
IL3RA	147.476805635744	167.46432961654	125.563646710294	161.299920355406
	133.063422581428	140.756898474665	140.548371692813	134.423260547727
	174.881557472722	141.391508027714	173.204163917896	153.694557276814
IL4	130.304743083321	140.003353399494	137.497145594629	132.54355871539
	130.311471059267	123.732299841696	139.374278310041	143.13304460184
	129.869363181125	127.424848301217	132.02259465879	132.529247880813
IL4I1	141.266129417042	146.923382271905	142.537484065487	159.455596750304
	158.147502554814	151.403431105471	137.466291815166	161.799743586569
	178.684992551017	142.771243742561	156.494323415504	149.453103369806
IL4R	614.957397883514	814.110601393539	581.828502821435	786.62709337246
	287.242697383558	255.198862778405	665.341859712345	287.145105895235
	394.73732350607	401.189904619902	579.923640505245	295.893482074241
IL5	137.416133786828	125.234097725749	127.883124527039	131.676609824921
	124.679444852938	132.760567403706	135.542079867325	134.664652044646
	136.603035996281	121.88070274109	132.038012025708	128.135216461862
IL5RA	178.878444404192	175.948959885759	172.050718136571	189.49408026215
	172.329225247019	162.536009333787	184.085616342099	172.197077149985
	178.885625009973	189.816900281053	172.142411008084	161.285587312115
IL6	137.658183450715	331.747622606378	163.54669668396	204.396576475753
	160.240052678401	244.766289564524	148.272252953881	145.881727908814
	156.273445355976	222.990586491219	142.865320802784	173.315097944835
IL6R	163.996649606636	161.510497517852	147.889486635135	154.988494760267
	147.868721324602	150.875392181869	210.030846572444	167.900071375885
	150.417169156755	184.260835471542	147.875855077738	148.94765984808
IL6ST	136.432109029368	133.897397228615	129.549673572516	128.56495182759
	123.681353449198	132.688531077861	128.893208935783	125.345611085082
	131.87404363664	126.22472822166	123.031945101045	123.526427901605
IL7	133.836390935612	136.308565710257	134.058035351684	130.220620345623
	128.888149939072	137.070326499918	130.282212339065	132.683594640696
	139.282741110499	134.361064431414	148.73620012231	150.188128594079
IL7R	182.410688592378	177.039190810529	131.879526177089	142.49005761699
	153.062710222618	308.281798808746	248.562843471699	455.392133846517
	635.536499281829	392.6758818959	339.32415558339	212.272826965935
IL8	172.073751088968	265.470314691221	162.586012723045	156.430981244063
	533.54045706916	472.669956708398	397.449905380349	228.499052416183
	769.009371389327	5624.32062666666	303.300028849873	429.812058546782
IL8RB	125.416113646128	123.271452939936	128.611740835252	136.207420489201
	135.049657594221	141.382096896508	160.979182561773	125.9713489569
	141.050384368733	146.174492025087	135.982797108848	153.377182895472
IL8RBP	134.580526467375	126.749878702933	130.420753247797	
	138.609972011765	131.08389186558	136.059884933876	136.278361222532
	137.706893763747	153.044682186978	162.422173095045	134.896349513392
	140.802033706122			
IL9	136.355319997318	143.096097305398	151.110467345727	149.518870320398
	142.804411455413	151.794243108455	142.91818218442	140.482728188987
	147.314687795555	162.077455145261	140.736051985112	155.572357799741

IL9R	170.483686891321	159.561431866706	173.468958175014	163.091280469234
	165.100811808026	174.820064644203	153.711354087243	134.329334422886
	158.356964958885	174.690052785405	146.948261640482	185.968210090666
ILDR1	249.193270428348	254.936706344174	259.868701878844	264.383922859446
	463.802270256246	331.684298221133	395.716879127149	457.548150688248
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ILDR2	143.844153373367	150.173766182317	125.701083319929	144.876300850115
	136.871568211946	139.690093593646	147.604213625382	139.698333393438
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ILF2	875.7694907383	851.221199352646	863.086199215353	696.475639532595
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ILF3	353.285905782951	419.047108206042	342.555640222963	526.896146537814
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	135.678138913772	130.37185420347	136.109975252514	135.229197100212
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INDO	126.460390022632	134.865577264797	119.281300456243	128.914885412263
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	131.269526665478	132.839431368337	137.537197575152	136.116468624715
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	524.392279804734	197.895094054577	173.347463632976	201.289402228512
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ING1	132.887701822875	149.756512110538	151.546908501054	135.589211439847
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	152.129092774005	140.759006929593	152.221694141976	161.234304237838
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ING3	188.818012746123	174.323881548679	203.983168778488	145.161116298118
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ING4	184.148058872585	186.06425658259	222.028626209166	228.001046173405
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ING5	150.998881139061	146.486480663438	150.267298097687	139.472008268541
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INGX	132.688531077861	128.593112520767	126.910075365358	134.168381235167
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INSL6	132.895500657638	134.457932303561	120.337241026338	133.236084190243
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INSM2	101.149125916797	105.193775204124	112.502812746669	110.448948495323
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INSR	129.267923706188	123.265810024678	117.511162285879	119.150626141327
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	145.99474597064	124.869732867761	166.662801900754	125.598828334465
INSRR	146.713861499546	135.159590925066	154.686025022972	140.38936578649
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	148.132450240784	137.429832103492	143.004090696463	145.259981479761
INTS1	393.198813167839	486.334840298921	417.442660073269	613.631311147328
	1198.53117439169	290.241064926886	446.194196064909	388.638095539186
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INTS10	776.98412594767	600.919152191636	896.185223980593	
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	494.538861626895	676.570119607984	672.13164205724	857.090339943417
	747.804958601763			
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INTS2	280.246711704036	270.231637012624	257.338950719432	270.293807247372
	199.275716402358	331.215872600406	380.393153331219	395.133831206474
	301.139737613279	315.014639682046	254.133112176024	348.171901445232
INTS3	1168.68074786473	1081.47077865393	1096.61874892572	1307.19490564658
	747.587723573212	767.861763134136	991.611982265221	629.707646271678
	457.411248351795	467.387427864242	906.886423608706	1014.63777151551
INTS4	233.690524419327	223.531323159808	266.135477775641	278.942695435238
	224.528190554963	252.32907388173	234.28146549561	283.416246133873
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INTS5	199.408907117764	239.003718699156	183.604011732066	255.527764534636
	519.112018353676	228.926077117474	257.44230597145	199.53455266342
	220.487665103019	200.405532717305	235.650688823345	199.305626149918
INTS6	369.275635424092	393.796356067403	332.138346958671	356.413190087706
	246.989526028884	297.757657398146	227.52352046188	287.503594820801
	331.215872600406	340.860684371038	381.867665449509	395.927222009721

INTS7	172.387657419201	175.805472275887	158.507624756588	166.842970309527
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	223.220997990627	281.369059516242	202.230920499592	263.936023499588
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	484.363052437459	393.796356067403	432.088303693555	535.861738240441
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	592.957842630046	592.822841077599	715.638378711433	466.083451075744
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	176.267796612066	144.492756323647	152.601626526117	193.629237856758
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IP6K1	456.817057099146	573.846138124455	456.201998988891	715.93836911426
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	408.758021864761	256.820546409632	273.514200733343	243.441938832251
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IPO11	709.778171909457	717.419388886784	524.541494680558	734.139557942719
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	434.855262284265	318.112626495401	276.925017614147	257.5097052677
	258.830885826237	257.032174266905	253.601378730911	237.171424222756
IPO4	209.229537873706	210.711890471222	213.274106157675	282.190861594303
	538.605085454393	222.177290763736	249.234065130083	235.704824490397
	190.843795579234	282.652193666078	234.947745514175	301.188296465202
IPO5	414.538237455116	350.741303038926	537.698489904622	325.751369001105
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	140.553613300431	150.034029031033	145.172776053	144.871396308673
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IPO8	425.969575503375	417.731815310276	503.967725251906	495.769802520637
	267.839640412797	309.937351755502	248.43491649623	250.060734219351
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IPO9	297.970735665595	269.100400678077	284.104619768635	233.161848094769
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	128.354163132392	121.212521750566	142.700311964178	131.641435734821
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IQCA1	145.08246303652	141.565599104245	137.890006487904	142.090009728666
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IQCB1	209.74583569369	200.065184172871	236.35479928448	173.690008681514
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IQCC	215.426918011158	255.945470052489	251.062649517773	298.301504581296
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	115.400592594965	106.238539254093	117.532063783977	119.612288460361
IQCF2	115.53736269794	105.839106819841	113.989682635964	120.212294184999
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	111.196610704726	114.835386789236	124.358414281035	105.551878332786
IQCF3	135.884635448277	136.151754558226	128.748663215466	131.593705080542
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	141.822974252935	134.062423178775	131.342562516383	124.422548323449
IQCG	204.509884908059	193.173703015873	181.425012248539	201.676984786688
	180.77686098195	156.346014084316	211.995890899864	207.417884407459
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IQCH	133.303201646987	135.125414452178	140.370626016794	123.383334044683
	119.730174479044	128.375390373307	125.942455135541	131.726540162023
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IQCJ	131.065633574494	128.824243581806	134.803612821519	140.49145570631
	129.198366503027	131.12775424877	142.596113491002	142.122556679441
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IQGAP1	969.360864006371	883.702573960415	1332.82617944131	
	799.132592914065	368.466518140043	728.743541467167	587.893636997642
	493.209107049493	536.067857235731	1141.13648305827	1189.11053680293
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	174.603285240228	121.915043935246	149.541917326637	117.611606270124
	154.555255038453	154.127346849182	131.613738869093	145.574725784632
	121.23469201559			
IQGAP3	146.448568700393	144.400004730049	148.590732065459	
	158.364031234356	150.25322837689	184.071078414327	156.200313064999
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IQSEC1	411.784922368377	418.968095159939	320.214614455231	
	396.708183244581	303.858574395969	241.799709160815	218.134101819445
	246.533813165981	293.986292438714	226.315173823168	204.35801867216
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IQSEC2	171.835438335216	173.204163917896	174.471304281502	
	183.013090662119	204.584643964409	193.858884443593	176.689683169567
	193.786889748038	175.101284960252	171.982071800592	170.998961353556
	163.582678113215			
IQSEC3	137.790718305537	133.830860948014	130.572923512809	
	129.898242234869	136.908861280856	127.282374513433	142.007066214472
	136.406132339187	131.02157879562	143.839170216353	149.460660195293
	134.56763097313			
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	136.612903661685	114.91722828113	146.541890150631	137.663941989772
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IRAK1	864.908449769749	857.55777793754	672.637760135254	1035.98574557331
	3636.59530016939	1376.84058291266	1297.25632532536	1323.91781040143
	1218.64951314553	980.120729515821	1036.40082234884	929.69741581954
IRAK1BP1	206.446584387595	259.796092536601	178.984409575632	
	200.017741240426	174.155599133789	186.222567239198	178.819486867379
	172.509081696309	171.552010365305	197.775397831129	147.034021626893
	188.39062571513			
IRAK2	249.029098902357	347.081036934975	336.5543056115	259.575461599189
	667.693216401836	575.386048896223	950.818917078515	890.121325723286
	936.221322010828	293.528601172819	1172.96121022579	822.545007054668
IRAK3	197.981112645168	218.209523110843	183.005535466221	166.526875572556
	153.998849486363	226.144012966486	158.774910841987	214.082408290757
	182.143506470859	206.605699708924	152.049243916141	159.660564323984
IRAK4	168.996965070202	137.572574328004	163.72257517759	138.719480482945
	134.558435781672	160.446191353364	161.027590226123	207.718619151226
	170.108500366942	142.505050582588	217.969738417693	175.044940252247
IREB2	168.830344627025	148.145136066071	175.757588503244	157.021010130169
	152.566490804809	262.577672828611	252.197271817794	214.595639477696
	244.18714778846	242.752995772995	163.586549438955	259.979459472217
IRF1	412.648926259488	602.141151173094	416.638529499878	382.327656839936
	522.17701271254	326.758278851698	662.781145703653	861.119262963015
	1747.33558205825	904.733257358133	1612.79779117655	1646.76016031831
IRF2	161.673818303367	165.703810120915	168.027892518772	174.795822188504
	150.741291526753	151.936543085044	168.660907237558	155.694213876736
	170.585366369563	158.224122084011	197.100205890532	163.385727569154
IRF2BP1	182.275998840116	211.809434609469	167.491399614986	
	285.355815566148	478.606567465979	145.472859089272	157.952018720438
	141.255406288178	177.88534558205	139.744142223177	187.710185880162
	159.539320132392			
IRF2BP2	623.508710830895	648.161646065464	776.030689773414	
	585.933822585718	379.476768908492	596.3549500121	408.037874667173
	239.704459251571	583.022090879298	444.584594376357	280.337475979102
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IRF4	151.418316929551	146.675159409376	145.756455015309	182.886100305943
	155.626515272084	140.158309892319	163.315865817864	186.999459152483
	207.815226999953	166.503112149416	161.886342770305	151.228823957828

IRF5	151.965103021638	156.218834695891	165.118167086792	172.7330526128
	325.525450750788	147.896919205072	243.402781509365	332.666916002481
	165.863118584978	202.545147073902	200.536814571322	179.785198362326
IRF6	152.524106827617	176.927500850631	145.45097990828	143.783078837501
	439.727046291381	408.444629429553	532.596772298766	226.623172906957
	308.621688157016	769.958422740085	499.544050752036	414.114051645565
IRF7	243.468673768141	166.788336808924	144.181359740481	163.579282884905
	156.269957530519	170.992074907355	284.321253087512	220.567951704044
	252.733973271584	382.186095123659	230.332652534446	174.881557472722
IRF8	218.917357155289	198.338416756432	173.766372029062	207.104548555929
	181.062188174871	204.219197797869	228.797912452429	372.757091748175
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IRF9	1841.63015706195	1041.58583268313	928.151632070573	938.918431240228
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	2045.24382334506	1320.74943817958	2913.2685312165	1396.4168898623
IRG1	124.345320343901	126.711037295629	123.296382913131	136.607783800741
	135.849839822066	129.95138839192	132.175368142549	142.240333104987
	125.506466437764	135.423839577038	139.847813838017	133.346626315812
IRGC	137.363483527372	138.154799037807	138.916830356763	127.908872828095
	119.544004279354	142.726324048628	127.527378949803	124.441699369614
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IRGM	132.440818532628	132.760567403706	129.680406696779	142.757327296852
	124.269446398587	117.642441794442	122.804934452095	127.449028221682
	129.336402686549	128.779829252045	140.671406418004	128.83022039037
IRGQ	146.528945049588	129.838790698396	134.352155462211	146.912751127571
	142.793573585472	148.539881077647	165.232545721733	141.830432745537
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IRS1	310.23294370018	378.797952580504	375.767528676937	365.950612890149
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IRS2	383.939800422489	378.308562999445	572.049540360134	312.224309341171
	222.943046618742	226.796825544749	227.491667075987	192.188662949149
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IRS4	147.545667896282	156.243337414127	137.260359343758	149.147411595596
	145.578721432709	149.511776997149	156.901209828741	150.287472248483
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IRX1	255.198862778405	259.229153662504	299.463563393179	293.018282386003
	260.591336959281	237.358925391616	312.845219991659	267.190228116903
	256.424415389574	280.246711704036	305.499194075747	267.839640412797
IRX2	137.923852688695	124.197397333928	139.065849548762	139.191746593825
	141.706292773073	136.324020406359	134.69274746407	140.29803170157
	132.725232102483	124.321503368855	144.55710963567	131.592172917738
IRX3	295.893482074241	307.124331101976	146.826292449698	158.160604786093
	130.865693081945	829.126529857044	915.579581760396	509.702881232139
	173.640326140494	2236.73950603157	524.392279804734	722.399669963921
IRX4	120.740986472733	138.010385979692	123.981053866137	142.34471764492
	126.404523759643	287.084253886676	138.047487233711	137.282635754873
	135.661131815375	140.553613300431	128.635684412304	123.038646914863
IRX5	150.500676225569	152.185397218918	155.824409540332	151.660152977515
	146.495845282846	152.364417528975	177.88534558205	155.960886801091
	150.431052959951	162.778480318754	155.548684011748	192.188662949149
IRX6	147.1476865809	141.557420268382	137.627338682823	135.663734178125
	140.281512754823	142.89427871125	138.576978828316	141.758827837244
	144.129889080946	143.347066447019	147.556482119673	127.642215862573

ISCA1	328.919401925375	317.00629920068	446.948699651916	288.728608411903
	294.697622870418	340.860684371038	282.719121652073	326.354469134694
	304.357050745605	441.873247266342	282.190861594303	248.260998007814
ISCA1L	183.735201125198	208.406980186223	248.03801051527	
	195.218005582618	246.061496821699	223.279017022443	215.558688906165
	226.960024551778	216.974834077975	324.009703043876	244.668813440638
	196.136080427522			
ISCA2	166.415922313464	173.829219279719	163.748692741999	163.769959129611
	209.130260450131	137.629855378016	190.809584998617	187.183762762259
	161.596086502946	154.118601977256	191.507657960386	197.24751449599
ISCU	1539.80266129509	1355.07170485397	1816.3719976564	1434.1439428394
	709.778171909457	1017.6969123529	891.637685856145	914.654262296682
	1477.10828981572	804.800251415824	1001.35912007916	1257.32413345748
ISG15	2372.26073354008	701.847905027147	408.037874667173	840.623505494489
	6244.58472720999	2944.63971819193	2137.44704613378	2938.06458269406
	2390.41825815872	1119.23362648056	1531.54387233661	2083.02482378721
ISG20	310.718449468465	263.379982742085	188.74403596953	191.897449038297
	449.103432410618	339.98018551524	430.329437928013	892.868661511516
	1096.10636044885	530.267835989435	408.811415529922	235.742017851879
ISG20L1	346.476121089685	350.658722333252	277.000882284125	
	266.252875242286	413.687046868111	305.325519265387	364.597798667541
	287.374706071354	395.386242257877	291.537725613819	306.677271064305
	385.463209972694			
ISG20L2	448.858580689107	458.705688226305	436.482580413523	
	474.517750753745	454.732029358748	595.752426322468	474.517750753745
	525.515169794593	472.405334652317	462.686385881492	499.321667633972
	567.465201338735			
ISL1	205.509515144263	311.10841853984	156.179501567984	186.640167849568
	155.335777680002	169.888264971936	153.562334163034	151.902352951251
	169.211708954329	307.665281863258	169.311264420133	312.484289357493
ISL2	115.16087297104	112.449662536973	113.840813583258	117.81168010976
	134.08270035062	131.679566454851	126.759554774012	130.10852948682
	150.28169442832	119.862037840843	167.599784887933	139.459975305985
ISLR	537.419316887523	479.983368253935	362.252813848151	460.807117177285
	144.139062513587	128.692917766138	120.300291760091	131.356437247149
	141.781482381513	176.364184489318	135.159590925066	127.377356715337
ISLR2	148.247826830556	152.983678871668	136.109975252514	178.339211170442
	130.886164807755	164.063104872636	129.46430369977	136.335679863251
	146.828099826146	137.991642076355	131.876061826583	125.742631850732
ISM1	152.538048490265	165.108876136738	154.057771254252	156.787932134605
	149.869314204354	153.711354087243	151.70917316194	162.090585987836
	166.936975782665	163.053121879323	158.160604786093	151.532859494021
ISM2	142.675752131935	139.023486014525	146.129805607031	144.450810504499
	124.885950473434	136.728975205893	153.83891040723	148.744599622165
	149.55916919466	149.477373469387	149.707357499252	144.518132543976
ISOC1	440.745866155629	504.617795280805	503.59466398882	411.784922368377
	656.867138022837	985.087150371964	1023.94850651125	1139.76755449089
	627.335757721489	1080.02576143033	500.246996975	901.644194512187
ISOC2	317.244256751418	397.737702926328	219.996410908721	669.124699103132
	1424.79466712859	381.625983354158	420.567884340705	259.935831886014
	334.607533045929	199.490190715307	461.229315272354	309.5988292104
ISX	116.552626146967	115.840266274696	125.741289047045	110.296425545476
	118.025603140924	122.204249636472	112.054379249781	119.459625817735
	110.392617179163	114.43491928161	125.0723702213	127.945144368504

ISY1	348.98762709818	363.195371577097	458.151323130855	394.294057009443
	273.550544349798	380.562212796792	400.180574613078	379.911829623463
	405.766055310869	482.048928546145	391.911768848267	415.113340335205
ISYNA1	164.455111983634	202.00431685587	144.464783586439	
	153.393651104539	275.543576337502	405.843083758177	229.729195963667
	223.453776362112	192.767155566493	133.733674016447	214.229228850802
	305.325519265387			
ITCH	322.506898833351	314.337680575998	320.597495751519	327.062810389635
	248.03801051527	488.249967208882	362.095074331893	261.117845544884
	212.933062534244	242.269784551092	295.935625475189	298.085365348496
ITFG1	331.848516303011	274.627303114477	343.488356185437	249.80160363144
	357.514919818489	353.187829498591	428.850337327605	328.431289733169
	358.732947927445	447.779854598556	355.80042210486	473.947538805454
ITFG2	375.856200488667	426.464641742092	437.489929507567	464.196512015649
	415.642099109855	233.047541132048	354.205670284123	241.648044508699
	559.559921312181	220.362946606131	477.275332763887	484.658140651032
ITFG3	919.165331064155	1282.84159765715	822.88742008931	2183.18692530644
	1675.35431076885	509.01330998156	714.052063877292	682.538709448692
	539.853394831917	410.731869154912	499.176926371542	448.260934224454
ITGA1	438.870464403215	372.024884481775	451.985108262982	495.655170027296
	127.279107079261	137.460936879873	117.399753685854	143.303309656177
	160.53152291979	187.812436252228	162.093325839949	132.419898122309
ITGA10	205.244843885276	214.261611197599	205.185206972064	
	231.572677616684	170.646233722767	190.348359536057	158.503284955019
	196.245297362955	176.714471790643	158.33974431499	157.454558821261
	182.263724979519			
ITGA11	218.96845208513	199.53455266342	173.919504730673	
	199.662592246931	147.049287475127	143.539741029895	133.599098708818
	149.927773276383	143.161623642178	195.230219990395	146.40033464957
	141.246352591355			
ITGA2	198.113398073968	215.585089158905	209.785886171295	170.825161347825
	192.465510013851	273.402804140541	570.771089597761	338.585771590234
	287.084253886676	869.245621105614	770.19255305977	924.630951485299
ITGA2B	134.060214479265	135.022438246099	154.324955232468	
	155.98413216883	146.672270660899	169.257035030405	160.243405030742
	151.531667383273	147.592770523507	172.214433016685	142.752536416014
	156.026806913759			
ITGA3	304.937584086529	379.546197364027	302.408563830315	399.963640581639
	437.931339781992	866.765054377214	656.32782132983	293.646275396425
	481.86545778383	1008.43888926584	797.73902873919	988.297682407351
ITGA4	153.966815534288	140.774304412579	135.437227744668	148.776470607859
	184.306452616482	178.790758444269	149.541917326637	162.488819873513
	159.874161198304	161.338215647108	158.928949614338	166.97270256697
ITGA5	4800.99572384569	4486.35687688252	3073.40543048878	7969.0710242842
	367.732191251547	325.570839576032	185.801540278924	219.192900411543
	265.219444616245	980.67040349547	181.715992480635	244.162496497466
ITGA6	158.23884088767	175.469375624274	147.150063462728	144.501995579502
	170.202597821861	209.811693771836	193.084818760857	209.398724613377
	174.832495287192	303.986544460218	454.64556253724	170.111653122193
ITGA7	239.621756857095	227.418630852215	210.085329463347	332.219608862536
	157.948814637726	167.547551072373	192.130214856642	171.494975393562
	165.896420029269	184.801068553988	160.76044995335	188.378996128521

ITGA8	1218.05434595121	1034.2217095753	256.99019407912	774.442392607873
	157.986640251147	223.638850960288	178.429953283621	184.862871179765
	196.777776509371	157.221008210698	193.945494721138	173.513108409372
ITGA9	234.28146549561	204.942500423413	189.307823427362	280.398987330256
	163.362182585182	201.49630027392	185.275787562938	184.322250984457
	181.308852106289	190.057030596611	163.778790431064	171.521579011287
ITGAD	112.046615825307	117.703025026759	110.325803953516	114.358099210532
	125.796438432905	103.448244268961	126.921925660996	116.486929280635
	124.982744176925	128.168460083895	141.73799456072	116.89487516867
ITGAE	566.647927867646	522.77407098992	586.246004571452	461.229315272354
	450.220658078322	789.401526545277	445.348044448953	850.562379837947
	530.387315639095	537.06835963726	497.629319581786	739.52947559669
ITGAL	147.761965925044	145.556318940043	138.29167712246	131.846160346403
	143.458937009197	146.944628763232	132.034701177759	168.974155750959
	216.033564783918	132.50027119027	143.191095552619	137.070326499918
ITGAM	200.146843808423	188.36361073603	179.501659253141	181.3859695951
	185.186497037695	156.096880332427	164.820007934887	166.592366578462
	183.693300680495	176.267796612066	145.444483891989	136.227202534196
ITGAV	557.214020485204	528.014268424539	671.563789496889	441.873247266342
	366.473258467746	1107.29687889378	564.749082802433	771.512332113075
	497.916883763059	956.153239481189	1001.92763014266	724.607317443904
ITGAX	126.27024495428	124.452631766045	116.780639688465	121.643036773773
	133.402515225624	125.299513989334	122.153996665065	132.233396667074
	157.195967361907	149.480971898888	125.876114993687	126.359440164601
ITGB1	2307.82327595071	1951.69651954627	2036.43904731226	2112.84348677276
	1687.85201395597	1576.21727854603	1418.60088387728	1067.80176606977
	1077.33874251157	1474.70984232307	1733.96382719909	1634.20135156938
ITGB1BP1	548.686094748117	486.778046640624	646.117381960716	
	479.138177792954	507.56875910742	573.846138124455	624.467319041884
	535.758943850734	473.260534978556	809.068563907145	467.512355593598
	530.122419830951			
ITGB1BP2	161.485353443949	179.358460170348	144.008961720971	
	173.017662861015	127.137447808551	135.842090777339	129.25124636593
	138.316043447788	135.920830568556	136.824357247954	144.417333931582
	151.538112896642			
ITGB1BP3	134.774591679724	130.872296869843	122.452541100946	
	124.621381699241	129.958065173006	125.558877611499	136.728975205893
	138.159966250659	124.134916773123	133.201157825808	136.108500467418
	131.102996816222			
ITGB2	671.563789496889	570.130804179186	384.883635849576	611.208083466988
	609.100385482325	574.496860164135	722.725186727796	1858.12855367119
	2550.08769415478	1178.08490218853	738.892511276134	541.351092873522
ITGB3	146.763046352405	142.96594961303	153.226604317177	149.17029600091
	133.096984735092	136.003277940379	150.552186000149	126.675231236654
	137.790718305537	139.701504237962	135.689889081912	132.28010415054
ITGB3BP	155.280897870265	170.376620730856	153.041407358576	
	152.327247552986	312.286788541158	354.656612182522	294.069353373633
	314.751799003704	240.12078342024	180.867208892996	229.116153948948
	291.221427744817			
ITGB4	155.383166865192	188.847480174391	150.188128594079	159.300198352916
	507.236601481067	383.259887828605	539.27766384282	214.639374741553
	264.563741039382	700.877661166739	489.75389978732	529.228238133018
ITGB4BP	1102.38234645327	1193.82799849555	1283.68791110988	
	1144.92109214621	3235.38149926838	4527.53010866974	3890.14358014877

	2895.71836177599	3700.75770419386	2482.27419621925	2672.77147589342
	3869.12225821096			
ITGB5	1075.3328563531	949.260897408911	937.593129242257	1134.64039256323
	730.673649872205	658.068932688816	633.401624753368	398.193129265416
	681.172359997071	1307.19490564658	379.292531644085	616.188923504376
ITGB6	122.274656361883	115.755585907264	107.559685467789	109.859878974527
	116.070254821073	136.047032834863	175.562070915794	133.570075399424
	136.436762791912	163.042083189818	142.169951083733	169.834078550805
ITGB7	211.357321758564	182.508415915215	195.019706886336	177.598422362298
	188.013181859196	197.962159288376	193.871324880919	320.707687986324
	354.531898366438	240.75934760601	185.405774238391	279.26508919212
ITGB8	130.443360119099	132.493888285566	121.459780480915	119.949050292223
	132.332128706656	113.440171712791	128.820757822782	131.369177333568
	119.257387524365	119.755151432304	123.665983073461	126.355699811531
ITGBL1	247.528753010193	161.00635457883	184.322250984457	
	129.591396165575	124.232144678947	124.464941711781	126.182856027765
	148.109847175216	134.613036378054	133.930997975106	162.358237198517
	126.626904958599			
ITIH1	141.664271607079	167.083758835476	166.368623023308	146.54504551183
	172.355215322173	153.836520485018	182.763057221385	159.455596750304
	156.237282338037	130.800427334056	158.053654524927	151.09670688533
ITIH2	140.299459596491	146.932655562613	154.199534276226	145.599152743156
	145.773932754923	134.9404536551	149.066522533956	138.831297375659
	135.516856254532	136.335679863251	147.968104627262	156.576585764311
ITIH3	115.332409360957	144.338069855334	137.720747340105	129.187574143637
	136.60514429355	128.950308413612	130.354641020141	156.756159786366
	127.918847837351	139.497253870412	125.506466437764	130.368933537243
ITIH4	148.329635131296	173.929353266244	153.108902978819	168.289492873475
	113.22850386845	127.509583634884	114.726808450831	195.66091457697
	116.810827219571	116.360144963753	150.812739240232	126.237900397603
ITIH5	5981.08862268291	5912.48904507462	7308.57540715512	7190.89891723932
	4353.66854914351	6560.30885074315	5138.28186306948	5859.56559124843
	5543.71998558526	5314.0635307876	3270.88476148156	5455.91604383389
ITIH5L	137.981446468611	141.346722137248	145.594378536072	
	148.767517078508	166.819234137224	150.45404183949	135.296271683847
	154.166668493152	150.902548360746	144.486242872235	133.869109970003
	155.313873664923			
ITK	147.118987674809	148.421611987655	129.257947818865	135.068883036882
	129.797601100832	173.035013611377	141.665332811746	200.831877950718
	278.142283306934	136.534812980964	173.488272345038	141.222884136243
ITLN1	152.648490300617	142.12808103815	329.779210536849	138.371873773284
	124.408996713299	122.716563069312	123.247698282967	120.744994574029
	130.346150829949	124.597605631582	127.524310543779	128.045931477827
ITLN2	133.544149685358	130.054105892394	175.810411923013	119.763020707899
	117.517649866653	115.01682934323	113.791585365477	120.387275261633
	131.141668650877	117.49013401175	138.753419730571	126.049905221996
ITM2A	2291.40912229281	1246.2895253224	893.676600121113	710.999354960979
	181.758545723241	503.285430318683	173.66499836293	302.219514290905
	420.567884340705	172.583615020042	215.866644799363	185.088667707155
ITM2B	1677.93424842267	1547.16936835284	2028.67873136046	1154.86609813021
	1611.58245311122	2615.07927836881	1403.90487313049	2859.94396089224
	5734.76405709934	2574.74962955426	3164.55070502403	4175.70090899755

ITM2C	1403.09138858507	1611.58245311122	1420.27222765071	1593.49895307361
	876.783710734594	1068.63350031223	1895.72330348767	1379.26881813339
	1168.3174645384	661.096668635469	4251.82554412383	5073.27433952351
ITPA	280.948704707655	317.163768837813	296.051639873628	287.751093664085
	1027.48490028905	1010.05884008623	550.124359517322	587.181357555703
	694.288215755716	824.746488539942	745.844395215451	981.313778685019
ITPK1	691.632061537999	834.788058321257	570.771089597761	1208.25171673432
	604.453803994875	166.192990554427	188.291563792748	191.486717579847
	169.642188114285	198.411812737082	259.426050921239	186.496160803789
ITPKA	182.624130582754	172.667770359278	200.045606111354	159.05213637758
	169.279866966079	164.043866642712	183.921173538112	162.994537815938
	169.168869363848	179.863096463897	142.783159341229	167.243544185778
ITPKB	1295.27257578314	1973.20689165831	1557.00226259883	3235.38149926838
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	142.232918684259	137.93067182632	161.017267304159	140.431591727649
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	126.902441495413	118.388993232718	125.311403516443	128.206231522695
	121.874296836854	165.723126764006	128.933672074497	128.259909378964
KLK6	141.359142214228	146.242897296397	149.228977421003	141.482344048665
	153.798367953373	154.518641757391	145.502055020513	148.260672564835
	141.808122700968	220.816812192169	147.777050372032	143.265532486512
KLK7	120.193580405229	123.877609932461	129.735862775199	120.027996187915
	136.541973790157	123.418266047461	120.688909943167	125.439033142431
	122.629146433216	139.995623005154	140.214475962177	128.490341173553
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	125.833649377492	116.58452862953	126.619475852751	125.393848851951
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KLK9	111.837468699281	105.132185249959	104.248226402465	102.522925993233
	107.07609243233	103.202873534814	120.397683153445	124.59937620719
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KLKBL4	134.181819177347	135.433229702209	137.253971514177	
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KRT73	142.388076341254	137.899291413431	155.498580125421	147.668990552874
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	135.794342110159	136.984172424718	142.658562927154	141.949098898957
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	124.69564501518	142.991135981933	141.923103467306	148.913181799692
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	424.665056900526	1427.70292953827	659.27672123763	669.124699103132
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	185.801540278924	195.929328710358	333.349203784021	322.302219773624
	372.894376776771	198.066837203458	228.879434668972	185.923374274306
LANCL1	905.233241047678	895.821578104681	1208.25171673432	
	890.810315261602	347.487059316081	762.182213353032	822.88742008931
	685.620637807134	744.808064061459	1279.9555644913	1364.1224589383
	833.841469195516			
LANCL2	209.398724613377	180.327051100611	192.258863431747	
	160.78368986036	184.505279093688	182.560363283264	170.941404165185
	199.275716402358	198.979744266277	191.651818696629	271.638179116269
	306.068269136821			
LANCL3	138.27272971335	125.868080230094	134.20988291379	
	125.172189715764	123.728481007459	130.285187693932	131.095431530473
	136.48748813417	130.257242615762	130.140958819402	133.322752419739
	130.49338418515			
LAP3	431.974037914233	382.806570442504	494.538861626895	375.038561820137
	413.863345223345	487.696347726467	669.602939159192	556.725550806207
	978.389902096994	568.555967950896	795.037968409957	534.920870202582
LAPTM4A	830.455793617181	873.256632365737	910.982557417978	
	806.88003660673	643.306565600931	815.045148478814	838.93563319979

	651.759589129833	643.905401805862	717.886050056576	1310.60610806797
	1165.95924778817			
LAPTM4B	820.652972219658	829.992212133165	1146.84239258543	
	694.288215755716	2446.31228564539	2282.94927629821	1632.84261181074
	3090.52810501797	2473.22803972431	806.591035100794	1211.39534395597
	2332.98074920207			
LAPTM5	345.291295192574	313.581986704048	204.787016443123	
	303.724140156439	281.304989265608	261.117845544884	243.622678182687
	466.141717595301	811.362219801362	391.569187190375	518.281245498542
	582.382786876656			
LARGE	638.287221212947	626.582864105324	593.320132696649	878.986106116952
	457.905741500454	282.561381978659	405.409668978569	306.068269136821
	419.846584903512	147.024759173313	304.111808763793	263.64863646012
LARP1	233.809899915394	242.410260751835	215.335795337978	250.443147156029
	269.831616158113	217.264041781337	248.465457421469	211.916602665089
	216.427103365727	276.224613560582	308.564935340635	292.802762636861
LARP1B	233.07015384759	200.264756078778	196.638594797353	
	177.696849418064	194.80575419836	279.969975697164	219.151144724168
	254.607324522225	225.4575611466	254.83131041241	217.287912825619
	184.377923161698			
LARP4	443.964363178742	406.458130553679	361.904370514991	423.396271159345
	282.335582153109	423.152420192284	364.113665301598	423.396271159345
	383.626469817252	285.78344209704	451.210172051464	390.098830270926
LARP4B	730.042712083388	737.42784787426	697.97116981445	
	772.399017166118	1138.44837250274	1403.90487313049	851.221199352646
	825.345092964844	1025.88559245013	574.896304593109	1252.28642463619
	993.34112647221			
LARP6	380.310795921752	391.326200093611	309.580750386386	349.816819166182
	259.868701878844	228.100112133941	348.848550937417	182.929326147069
	157.895460674072	217.165036362034	213.240181616274	241.453456707114
LARP7	427.98782239715	403.812520074723	595.882696498804	339.490955270138
	232.344545356395	420.871349359404	521.30110104669	458.218913259336
	495.769802520637	501.863855158062	468.496972957503	501.434722063309
LARS	714.274201838067	677.802147190757	1033.48252432603	666.344430142655
	414.888512708716	535.041545916303	873.010676463707	715.93836911426
	533.37609065123	1238.11700377838	869.542306259337	650.0804221227
LARS2	172.866517097198	171.561940747015	151.87495966414	182.950456188966
	247.683819429859	166.526875572556	208.776711004753	177.333305785248
	241.134385745554	190.331589656379	217.684410907748	190.174729017089
LAS1L	353.005548289786	342.403428822464	383.583234619781	371.280926727395
	514.922742487521	436.891409783298	370.945254716657	511.996883507889
	480.923468806193	358.52459123416	282.511614929917	343.488356185437
LASP1	2007.0121037284	2518.88171283899	1796.26091584668	2871.34694522381
	7104.65816621275	3905.35300751401	4536.46344538492	7585.47289520004
	7753.61594300904	2763.86550710042	5655.12135336698	3668.19307488953
LASS1	137.992477770842	124.944563166658	134.631638658586	134.534815676852
	117.862532836494	114.999628959921	118.589392612801	113.125349503734
	114.021546689428	112.776764215618	116.736174147084	115.217608555334
LASS2	662.04757187541	556.568221094639	692.53483413403	515.929937825133
	1406.73270115373	900.839073800181	702.981741565482	917.646958427824
	760.070180572621	675.281131488524	802.304294140514	1055.79590411506
LASS3	144.688515462537	148.417929733447	144.446903878863	134.608734423113
	148.149216812602	152.035992124554	169.527424356913	132.887701822875
	171.941887376462	362.95684683529	155.383166865192	180.913502162011

LASS4	183.181125586276	185.113098620798	151.237088659409	158.299765118221
	134.655842662899	126.428284589412	120.971313945446	113.256481034259
	128.032141013681	113.163651806803	148.444479022559	120.031976318697
LASS5	422.840163973614	459.53652431464	362.581768268116	393.198813167839
	326.962330523237	424.665056900526	371.00603789759	274.891033696257
	264.628012152168	352.354687089427	269.673122990604	424.751154004399
LASS6	938.049312229961	1084.5920943349	854.224454791713	819.488546995594
	1000.91520225219	1227.65550420162	770.19255305977	1189.69730508119
	1108.61301774472	776.807656744828	1610.38263368771	653.879734066271
LAT	190.549084022965	168.394330931524	190.850639994777	188.079188251085
	171.304896264805	155.465250172768	162.297999435613	162.890650672747
	188.079188251085	151.511808301993	160.618586213311	156.123528587917
LAT1-3TM	207.269530621176	221.171478972931	215.769986055534	
	231.796421262015	201.152639979358	265.148061007894	196.615914367563
	200.668298229815	179.794718712964	193.477624805335	163.446813963119
	178.854873582873			
LAT2	139.574895021783	138.096262211809	130.941645638407	125.830917527594
	123.048352070915	129.792548588929	126.381288663037	136.15916708516
	165.908756485356	138.504398858454	140.814009587096	128.939572714685
LATS1	117.770032157393	127.601379088239	118.737244693366	121.278346729876
	128.137646789236	122.247130087475	121.344724993789	127.447218258785
	119.622243247836	125.649525720177	125.010266083832	120.964862799634
LATS2	289.724297749772	263.058972886829	201.661941695238	252.548942594125
	140.343790129071	165.985885671398	143.05872558805	144.283716416188
	153.391895732807	148.8870854102	139.564898998489	110.024815508703
LAX1	190.787437782456	168.384397488011	173.979001863717	166.411219327671
	148.388093331273	144.89062965996	155.516697616637	200.456087759904
	246.533813165981	146.858292465699	148.1283706199	142.558109812638
LAYN	289.761702484888	209.702683803624	244.514230664694	208.257420634745
	173.863373934746	193.629237856758	161.053174595796	175.840639511966
	185.507663455634	189.205724390913	136.685430908977	169.895672129542
LBA1	386.598037190663	332.296938254329	448.371946119074	387.355661073935
	177.500110974116	175.593421867771	235.48876511325	201.555964610849
	259.868701878844	210.502556087175	293.873921048642	214.241635800083
LBH	256.471672362567	231.819341041105	168.03501792841	186.563913311757
	186.904126552483	175.269675831824	167.260319361746	223.154771092064
	221.961758403614	185.905819051223	220.362946606131	176.340265963032
LBP	130.172041917023	106.491867793742	112.699674279523	120.015436934157
	124.621381699241	132.762755202326	123.609527892227	117.284724854784
	128.591292689996	110.286187184448	115.827175143972	123.195738824794
LBR	196.955723006838	183.358807104988	242.269784551092	190.138730960643
	180.54209603289	230.161369375718	200.405532717305	177.16711492983
	169.909886347082	173.507835230243	161.520362399369	292.037861000784
LBX1	139.256416415149	125.455347031878	127.206177583275	126.555972138115
	135.264074941678	132.631819830347	128.666652639862	133.625358030199
	128.63301490285	140.453219944445	134.880138942756	135.65700435306
LBX2	146.740694608146	145.320945010364	123.554769032715	124.624046191085
	143.272669418277	130.35985690876	130.957441406855	132.310147451479
	135.43119649883	131.945667475797	151.567693140302	134.599629045981
LBXCOR1	138.458816023289	121.018722403628	122.885879294532	
	124.905889975958	130.418739793498	121.04331582508	125.596067857941
	126.988118823204	118.912989775436	125.088717405087	128.662039886682
	125.262445870212			

LCA5	142.003414252064	131.715579653796	141.923103467306	121.743701509981
	123.892441783641	132.685098573183	140.26557508894	136.824357247954
	124.989313193779	133.883527462382	163.280786875496	131.846160346403
LCA5L	145.280485286937	135.916668738753	150.241585041178	145.904866987074
	157.463122989559	158.967160833334	134.503552797411	147.556482119673
	143.574584852426	150.396462763607	147.036768856136	140.590802695412
LCAP	145.064773625365	146.210814568357	153.505155981348	159.633987751501
	145.967685593635	153.366677608026	156.671252606074	144.48495176385
	143.818379692331	143.376817049362	148.235495611248	145.569870279379
LCAT	246.061496821699	202.024504592763	216.859640534581	224.274329367512
	120.948246352846	120.333487171575	121.130837254861	123.586359806158
	124.310436914027	148.522580898717	192.046442148183	125.859158049343
LCE1A	146.176240539176	131.08389186558	138.455086062782	146.184624424737
	179.896659891106	130.905135502296	134.664652044646	169.206723147505
	121.404831900877	130.185134787768	132.881693683384	143.895399273595
LCE1B	151.585818981801	174.338440780636	175.442400672352	155.666943703002
	143.245660951425	141.370957100324	163.977562404508	168.818595386221
	145.841028932318	180.578528984075	138.62994237184	145.148058824491
LCE1C	118.161192318422	125.828998007608	141.5311434224	133.564350740049
	127.177422395113	126.310788291075	128.611740835252	125.224197852606
	127.879723100698	143.451080466172	130.282212339065	139.718721422663
LCE1D	127.135199316758	108.683531606889	106.603674195422	123.303143302526
	148.410647472149	116.576896337786	125.717328918165	138.855454645579
	105.096927149239	107.727848546225	128.304919825754	126.676875319815
LCE1E	143.555987405898	131.349297554112	144.206259414981	137.890006487904
	175.452986514346	133.058788697693	144.425214066833	153.189490068047
	131.670601860412	131.380387461901	141.70123350351	144.370811043456
LCE1F	144.559193410932	132.310147451479	151.966771042034	148.592330216136
	143.112205432731	132.637443692683	146.519312568214	152.241060990474
	152.685860451112	144.907294702865	130.48231275063	132.557945249016
LCE2A	143.776637809106	143.839170216353	140.156797128045	124.045745662173
	147.701092466105	139.583514773196	143.796699867588	131.004145546364
	124.106971897779	129.299810898979	131.110018165002	136.591299462104
LCE2B	128.685065364693	142.167918879613	156.026806913759	136.400959554698
	163.239195865198	139.811873260553	148.237980436128	144.262612328341
	139.329693510525	157.038121210505	125.160161268474	142.717436384151
LCE2C	153.171822092714	145.44629057846	160.941804737367	152.752870674108
	122.371715108957	153.062710222618	143.00932329728	146.569958732206
	148.539881077647	132.48841450242	149.019120812629	141.431816889669
LCE2D	122.355409068882	120.925930409474	123.291258843371	127.951403055054
	123.424145707079	116.241531823869	120.311723366684	123.872097378045
	122.213445520365	121.575942603856	141.102274192049	128.56495182759
LCE3A	122.312652834289	121.242099666967	109.140708667012	117.754181884939
	115.80245224388	109.282814458761	112.126521532091	101.597648528389
	112.736231367296	140.623284238544	126.775180133301	115.18875509198
LCE3B	114.913534674899	116.19219007097	111.876915242732	112.156010486085
	111.328185454541	111.639177843969	113.716741872499	108.2359175332
	116.58633348811	110.486191378104	136.528123792599	106.315801001506
LCE3C	140.408989128575	141.805028495425	148.507598818039	137.401137659118
	140.736051985112	138.142193489481	130.461084106455	143.971152352313
	125.944185728694	134.590666885938	145.27890423835	127.694189114288
LCE3D	132.760567403706	142.379120254855	150.328995030071	166.515199732076
	150.84999247088	142.414323129638	158.31771109146	137.876234091056
	147.284005815059	1022.55215097491	146.416318806523	143.434571922656

LCE3E	141.389330839189	140.120051507626	142.142633050256	136.723467784393
	132.668344126625	147.094123051131	142.768691899824	146.916683989962
	137.00532429734	404.726926716133	137.867263869936	143.140502042489
LCE4A	127.630514255051	131.395959781477	134.790410101679	130.088408942008
	128.611740835252	125.463718280745	139.342430217926	117.870230005125
	129.658488766089	116.91470505098	133.031431118772	131.234140286502
LCE5A	135.369146072643	140.53597287752	138.50252234048	132.751406897891
	134.176925491721	134.487865570214	143.326739481448	150.163801964104
	169.895672129542	146.740694608146	129.24482916531	144.994931561779
LCE6A	130.716570410608	139.925201225224	149.495077381649	135.125414452178
	125.920663904983	123.491930765117	138.489443610941	121.36708642226
	136.118702626862	143.162353807279	139.320621744553	122.621839614189
LCK	129.301839663122	140.180208418327	128.755697083014	130.824958143557
	140.985432994867	121.347339077474	128.023203858837	134.623264303227
	147.400082178491	138.1693725329	163.919426088318	131.984467471242
LCLAT1	250.139061165593	241.418016203544	215.718714189719	
	222.605195861218	333.200230327106	470.95418656881	318.561557474749
	414.267332328081	233.192751618176	329.604568691377	347.487059316081
	298.926727289387			
LCMT1	548.869880723909	569.47446215213	635.37511798786	651.235249028924
	754.607039665508	680.743052197025	906.886423608706	720.364080505785
	868.40984928812	854.815394943219	722.399669963921	680.94167651697
LCMT2	231.981501596284	239.31180635241	233.914433380121	216.680795762761
	240.306287921209	233.200877362755	307.363302726074	219.96819201774
	276.653753970476	187.057683141644	226.43414383055	307.020265874666
LCN1	158.704425428694	151.210814209064	143.945039636839	186.551385094902
	158.63432604978	145.23179154441	149.678629612616	158.854659281803
	166.521472376759	147.879286704	151.70917316194	135.708804956764
LCN10	127.685469299406	110.885714048075	119.305917403956	120.060776752215
	123.11447940203	116.59404046487	116.780639688465	124.001295849091
	112.710573586525	124.786029449452	141.547112973262	115.816156193574
LCN12	145.681968019851	156.154079736651	152.277810621542	153.0141888126
	149.385103319547	159.29430824799	151.98710761363	143.665359343809
	162.961792330623	149.929454280702	142.971972776388	159.891562221587
LCN15	138.071335383596	121.271403807802	130.362378233288	139.953572663277
	123.574319348191	125.727521491768	137.814391189269	149.741272818423
	147.595573192579	139.717662557602	403.47026424469	139.310309748986
LCN1L1	156.672832018932	174.364798143068	166.17959304455	
	170.223509007961	194.552533397944	176.612866969431	215.866644799363
	191.040134068942	168.919352453652	170.655648004461	191.814634229865
	188.941900997781			
LCN2	174.441287575034	353.98839683842	184.873459141947	193.124599671798
	1961.26255930192	159.688862680139	1718.80498208397	183.348764012358
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LCN6	123.153925912632	142.274440538785	124.76274408368	133.155925118245
	107.344825308293	111.549719888905	110.820329153348	117.773743603829
	115.559551514777	116.321559000405	117.760045671142	102.725375719353
LCN8	107.802792435066	111.962852412774	114.970485002776	108.66227817548
	117.561878567749	108.266328505986	107.303126530947	107.863971340407
	105.741092375243	107.221547998974	113.112450527382	111.691973758042
LCN9	115.30786313391	123.431969470387	114.618608815885	124.668658660052
	117.967392531385	113.077691687266	116.881212516879	119.221976571036
	124.451718955086	122.258432948151	126.563876945046	117.943511615792

LCNL1	133.76515446791	143.760519659724	158.322477506517	169.791616021987
	163.143613079037	151.486362260537	156.046085830566	144.873034900013
	160.876228450608	158.627416752905	163.356993518952	151.392024228289
LCOR	870.887539668967	986.004777675332	632.278924237678	699.984140389009
	552.662610888399	1125.28599595312	1065.36715400306	737.193295872614
	802.643357549193	312.845219991659	1023.29995420518	1027.48490028905
LCORL	120.62139061084	125.950365319029	117.992729826121	120.126700838056
	130.850419527271	127.91637627901	123.277867938275	127.336648342283
	118.505980204837	121.396223519559	130.646956516128	127.604087759266
LCP1	430.505037012814	478.606567465979	254.668502187945	295.241644408321
	316.004332524937	507.710604451713	717.025533065694	1435.4236709581
	2313.56743052616	2733.68308784024	1443.68785521063	2084.44431604433
LCP2	151.134466830828	153.202157381228	179.794718712964	176.958593931371
	183.193029399643	163.407360509803	180.814610631281	159.273225917177
	164.794626785115	165.257737836487	174.136806313142	185.41739522833
LCT	134.551054564417	132.568354349687	137.914673796317	140.214475962177
	131.774882989257	116.825172441325	133.016668180102	127.959474148217
	128.322884322951	137.443463471483	127.911258242431	133.336063137966
LCTL	124.190161132628	130.160236228857	112.340161674529	124.334450753704
	120.76311889397	122.595766303833	116.5272207025	117.532063783977
	107.450945262092	111.66210002202	125.979152567959	117.511162285879
LDB1	144.736213465651	153.647343267295	156.277567608825	150.71435300188
	147.966224814966	141.008604646743	140.798706399757	126.897804011992
	139.684141478459	131.970514300585	177.716742595321	146.716053772448
LDB2	1239.66725147648	1397.84878368705	747.077451281453	1120.3009282887
	241.557810100265	568.935113269368	253.833756857339	450.220658078322
	429.351447428661	364.022018936132	301.591430919567	283.807827536147
LDB3	148.866229889479	144.201723591119	136.706241776393	144.120106441052
	130.329453160478	138.940564112156	132.813199199389	136.330636532576
	133.52971984184	130.226993687215	132.608622131443	135.509927917168
LDHA	2403.42261883515	2392.93562797606	2720.83642320419	2203.82462320864
	3219.27851139047	2758.01526530661	4134.02613649483	3262.24877138481
	2992.18604022433	9450.52572756597	3246.86605825129	3211.2719052157
LDHAL6A	134.961156870831	155.379116566097	175.139231359014	
	166.232856234879	160.525939340745	162.453586139402	143.211127738941
	155.313873664923	164.116142541038	158.36796888959	160.150336334888
	181.431827312784			
LDHAL6B	134.990075720145	135.423839577038	133.020551937677	
	135.29954024755	131.766114156138	136.826606228323	124.944563166658
	126.816402300701	130.998637545686	129.816385177336	131.868557613642
	122.180428703208			
LDHB	2871.34694522381	2672.77147589342	4228.5490138553	2635.31067044245
	3348.7622174821	6760.37324850804	6244.58472720999	5165.90865799172
	4929.26915002209	2615.07927836881	10397.3656932566	6059.74270502037
LDHC	135.003236040032	144.283716416188	139.395743826525	132.085538520551
	152.301556397498	138.624689897665	144.221488906376	143.388028226208
	144.954595802474	138.613373798613	155.268650584431	138.858138379065
LDHD	155.542691937539	151.459397907666	149.556644928013	152.217243924816
	188.335102005839	148.530422089937	155.803946849495	154.771737131348
	156.843997723699	155.172667450053	147.407093814154	151.252137441251
LDLR	2059.09598012857	2360.87760349888	978.389902096994	1721.20676889116
	801.051513639714	416.215253990273	560.180656219785	691.916554922896
	720.077057619735	3251.62784659994	677.802147190757	1776.38646235135

LDLRAD1 140.578378782903 130.902319266342 132.110906510601
 129.462319953515 133.120273569229 130.579954890389 140.348718082786
 134.961156870831 136.351332391315 138.348160604288 155.05329654089
 154.179891883612
 LDLRAD2 127.507557925713 139.999298193212 175.711836112986
 165.698527470382 134.222453538421 141.469818222503 140.242272149424
 138.53179773391 134.821778017915 127.975441922402 132.524377835171
 138.850077456103
 LDLRAD3 139.868714816245 120.867408760075 122.265071206163
 120.839256811295 117.104945989023 112.736231367296 121.888886996534
 128.814967091609 112.38543517651 131.683942368268 158.014017648839
 114.155592351175
 LDLRAP1 180.814610631281 187.046760972666 145.017264740722
 191.179662650057 265.332196877456 161.112906953532 176.66175597182
 179.764260117544 171.121834829333 193.04138438685 160.752581271996
 150.006621336954
 LDOC1 453.17378995737 475.540659315339 532.950400370668 464.577839898252
 217.380892198811 137.698423468762 390.670702155192 223.373877165342
 151.88244935494 151.110467345727 270.92671642109 368.276805218658
 LDOC1L 388.782774926005 355.14024238296 400.845137156678
 368.220523234399 420.502251256406 285.798047501616 254.812605074045
 270.847923557176 283.014222473749 214.639374741553 269.726397478364
 278.942695435238
 LEAP-2 149.082061203661 147.125005489393 155.988447182637
 150.653030597808 129.935532080325 142.818122106598 160.411218029114
 177.630246034993 154.533544838819 157.932243807202 160.045715314465
 145.698637908482
 LEAP2 231.769926214655 198.885004378065 372.81255844018 160.786907816025
 165.347173283335 251.20133703465 321.119758814618 711.729857540712
 405.570281788901 158.622993108149 489.118864124059 172.050718136571
 LECT1 161.00635457883 153.630125822178 169.806644442071 152.390371614602
 155.945838519586 157.457468761338 134.970609100459 150.812739240232
 150.701579893607 149.536681241497 153.554159360954 151.010493695217
 LECT2 126.22472822166 113.400050190315 108.362609680556 112.800733398209
 118.628559951472 109.552501987529 120.706421084476 122.323876787207
 124.225294244156 107.74537523456 132.328948598599 117.30724482798
 LEF1 194.092089507551 177.96452209396 131.582231577364 143.978912435831
 145.641373616866 207.718619151226 180.667897257797 256.764450748941
 435.332573825425 216.290279815413 186.156006020985 180.060096787617
 LEFTY1 158.044938495884 135.324479598682 129.940297696849
 134.56314960832 140.45860949168 139.825088162247 159.021304119265
 158.25554353787 138.537763477627 135.102827224896 133.64938083537
 121.591962855513
 LEFTY2 174.187510325385 174.593548891693 205.162633740798
 195.333029746339 149.303427221111 166.70212615715 184.071078414327
 168.73918684069 176.839917795004 200.486683704179 153.82440233533
 174.491551019128
 LEKR1 145.193296081527 142.652939807341 148.082026641671 153.907737500104
 130.162731607326 144.513730107393 159.977528879208 148.989286668424
 138.899292894875 154.627270742193 172.486839924297 155.826394389322
 LELP1 139.606654715326 129.707421699091 136.919702354166 143.051871940423
 146.34029698108 147.994386096925 162.513107496558 146.235832275574
 135.907702243922 144.975882336334 137.912656945408 130.716570410608

LEMD1	131.117294275244	128.729687597908	138.56812029378	142.184249919621
	137.245321102978	141.739299634007	139.701504237962	132.186120302011
	153.289258540668	176.901042102323	144.964084792568	160.707290343231
LEMD2	477.056706273413	502.731019454502	517.993093601127	527.597948979568
	563.339837352678	426.249411635589	603.906237227931	478.293220151258
	570.916936074747	405.322847383739	592.387650564803	515.327420453564
LEMD3	761.097992055119	805.875557314697	627.526008812413	739.085574858917
	665.106631364961	830.684999498776	627.335757721489	2056.90127387648
	717.419388886784	554.950092776254	712.067161025165	678.365575489532
LENEP	110.190708230962	110.575582352222	105.839106819841	96.8261937365062
	101.149125916797	112.464951599416	110.900309203531	114.85602874727
	115.080736217256	116.780639688465	121.053766591551	110.17590675298
LENG1	188.981391266203	180.54209603289	178.12073430094	195.618369827396
	246.80306998812	174.149718758884	199.001860912128	183.795632040455
	182.545896049446	174.866036336378	186.007710175103	178.142393629606
LENG8	173.766372029062	174.214747421898	160.454243375479	187.572517928061
	153.118492567137	146.486480663438	149.078664825533	137.677396262152
	165.703810120915	138.082870754768	173.21291920566	168.911840239685
LENG9	135.303322290834	125.609542142983	126.890841187249	117.735411259153
	186.6902304653	132.16600019449	138.311892121437	131.766114156138
	125.304045138994	120.693808603805	143.0235772247	124.368438691944
LEO1	184.775001243453	158.092775850886	202.60339529874	167.43630698726
	265.536429548886	214.499670852615	276.5177779623	216.506914782226
	238.978845152474	355.290621188435	237.940015617254	269.238332581564
LEP	1592.29734618345	1488.37146754184	1195.6335460045	1516.97921112926
	314.182403961681	1499.07462479938	686.028214419557	955.143610867351
	730.673649872205	572.262848718437	1787.32566525551	739.085574858917
LEPR	330.850098426464	330.005950459958	247.643123415644	272.456310079164
	152.348210524663	156.351734527745	139.308325848216	151.645636946799
	152.66513184083	244.486311003619	161.212598761378	147.182394557583
LEPRE1	270.021093158885	279.232290927348	214.355086255855	
	344.487982154705	322.64731764456	228.317527475322	239.20206002
	234.214191437687	204.914390718161	270.12941437975	206.571433405844
	204.740183832461			
LEPREL1	893.264940736694	710.228463443265	529.368609163949	
	817.529344685717	853.535700321202	261.922485502971	182.997980582218
	287.041585684111	230.263678910356	531.217306770605	265.670643951648
	241.734804013256			
LEPREL2	614.514126276981	611.088604425595	383.74357557363	
	659.900771633223	317.163768837813	148.547259731346	152.581729298159
	186.57665470145	179.810507975486	189.915720614467	161.817609920327
	161.83241639654			
LEPROT	2023.92614092273	2219.71846304201	1762.09874961415	
	1628.24528041404	818.761934233826	1710.60409578293	1610.38263368771
	791.137867905579	1485.776977235	1466.08446530283	937.375361806971
	1746.30519466572			
LEPROTL1	751.269009484639	603.338538383128	754.607039665508	
	609.504365141529	320.467139255533	613.279465441319	610.915977337787
	436.482580413523	832.622843175217	640.90860274227	953.861218000678
	713.087392708048			
LEREPO4	166.722369066673	153.626180103404	146.069543494352	
	155.762890407496	154.426605816862	159.605110015497	148.644800418517
	153.582185523361	160.035282578603	163.36682525399	133.99046926032
	162.505305538911			

LETM1 186.591941221632 168.674809329231 167.43630698726 187.336349390012
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216.403542903805 214.162670073541 160.923897048848 204.378245089766
LETM2 147.93442757931 146.548348470748 135.539516564142 138.076501233454
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144.649656552 153.169450192935 140.918728758975 151.024201732633
LETMD1 392.824840252824 326.703488388966 506.165100641525
316.623219008156 227.736106796551 293.018282386003 515.327420453564
402.473870771741 353.243400332397 370.555627307623 567.869601934138
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LFNG 193.052112923573 290.184801898828 189.292740365891 322.028360309592
196.169988112042 150.096558906597 190.22021453133 199.991077347491
215.931781291835 247.643123415644 491.709723745226 458.282682131641
LGALS1 11647.9643290124 11918.214537866 8416.19700892758
15297.9020958577 1742.84803427086 1736.03342040646 735.449040059761
1775.32632165475 2144.52984392647 9596.10781313429 707.173691257322
2416.49806112207
LGALS12 152.796423361971 162.994537815938 156.646803208934
144.191491000257 142.836229345273 144.610341215903 162.216377983292
167.164675439456 150.517832812714 159.452527363763 152.173055053184
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LGALS13 112.07238018581 134.89031458837 142.192934622228
122.733870240098 131.437847958077 126.611663427876 139.541759919059
145.718019736542 128.124456615525 127.040027125755 120.402155551818
128.40650280096
LGALS14 129.158212237299 143.298218989451 140.496058408953
163.059196519365 137.769431537236 134.97514790642 138.852212944492
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137.17370871536
LGALS2 164.313238416498 157.78390301218 159.446705611995
169.612203020686 147.143407224469 150.507308901391 168.838723365068
159.636846021745 185.591700082272 139.710828360107 157.333615322941
159.374355553219
LGALS3 1680.25851465727 1657.72357544205 1204.7397215229
1482.92498205315 1022.55215097491 1606.01395227661 850.882404546093
1204.32784721885 1057.80846320642 1319.3522488218 2363.50330960038
628.000860165888
LGALS3BP 674.571475335107 516.177596584059 406.369889501135
462.265785715695 2340.90990677253 1208.9240215109 2406.67187918735
1006.69598892631 640.90860274227 831.610501402173 1361.54107116915
2176.59445919725
LGALS4 145.329128512407 152.823566129571 192.046442148183
132.186120302011 261.171723011396 143.763292219833 127.749992538985
320.774102343889 251.704037951295 123.058261039164 709.303384219887
145.804420322848
LGALS7 128.205022859019 149.269417496936 127.75729795293
126.630787911053 148.380555606786 126.543399408429 137.084488743415
138.054470878471 149.119815471009 15667.6576521981 356.699466789374
139.921002429353
LGALS7B 133.602870982718 141.865758685796 126.997614441981
136.248506185974 142.928920246687 143.868962478182 140.311843829601
146.743260100643 156.208747691032 22750.0246358215 424.912426797488
142.93332947113

LGALS8	256.648540685098	246.263259852067	245.553138677866	
	212.119922561453	214.413674287972	216.277178481058	401.102586700919
	318.971509860209	252.810636571566	447.674610082872	501.166869173253
	477.87583927675			
LGALS9	133.641824143083	142.03837243998	126.547883999721	
	144.574566623882	173.611295051326	124.42747321736	207.977817300376
	309.423768054614	269.770777921703	149.078664825533	267.901632267999
	326.570967321756			
LGALS9B	204.596753034535	200.114704018645	189.2642795052	
	223.373877165342	152.495540563792	143.464614171516	167.293320986716
	182.055718892894	153.56082876276	151.839306445341	164.309588213547
	164.264079172779			
LGALS9C	118.802030418792	109.342230674869	122.749182465923	
	109.454483612299	108.266328505986	115.76177719261	121.643036773773
	112.227434965199	120.793974839773	122.35832958054	108.04922729993
	107.67395123577			
LGI1	138.651419539729	137.361967082029	139.178245419517	138.778496466408
	142.064680109047	143.031909545902	126.897804011992	133.190147746722
	139.299062352035	139.721730597003	118.802030418792	137.75060150486
LGI2	142.14654303591	147.772490977392	128.640202262896	145.26329339067
	126.343040504566	133.802898895457	118.173752075833	124.863832760607
	139.949563856936	139.856251508283	156.346014084316	118.655954393594
LGI3	136.534812980964	148.490236128772	123.086596566142	134.233014993992
	134.155655670103	140.767270136561	131.065633574494	134.206518622834
	149.44520146627	141.264096014725	134.803612821519	126.670227417269
LGI4	230.947339143332	300.047728281275	139.72868421672	326.1109406486
	118.820154030256	114.589757401741	121.434713764246	131.358797630945
	126.217702283708	123.598210440312	151.914252332792	108.818976813708
LGMN	497.269957926657	537.419316887523	477.87583927675	451.317592236192
	503.59466398882	404.95944990868	753.389428590366	1289.56069670699
	749.515603904233	472.793332506369	1441.29676998365	501.005898087825
LGR4	127.509583634884	128.800907223807	145.654559623732	129.792548588929
	121.538140679525	133.160197638474	138.593689321259	148.587929928134
	168.188793271919	133.470643135354	150.006621336954	123.235136639469
LGR5	139.106442824079	145.636906369786	172.329225247019	133.579067514064
	153.846723846716	137.575688681319	128.714459781294	139.55065372881
	128.045931477827	140.475688390415	145.389721946046	139.699189528879
LGR6	134.485835304676	145.045633612194	134.896349513392	138.773042747912
	128.711308958929	129.020356016653	139.558611792069	128.367370419533
	127.870241953024	127.515913913403	144.54895913821	144.088525606919
LGR8	115.080736217256	113.963798749897	102.343275379164	114.567609871292
	116.118745494794	117.619337212037	118.442856984861	113.321454160244
	115.80245224388	110.22624111837	119.11586630281	104.977794653504
LGSN	123.940632366675	121.377666938052	121.591962855513	122.405469833024
	121.248923222807	119.161972571516	117.958297137758	113.857477830423
	113.018985316061	119.968081249475	124.551603326682	119.278231442871
LGTN	535.612000577004	510.285766295993	642.057106241761	627.526008812413
	314.751799003704	340.608165077422	562.543347322063	258.727309442475
	414.538237455116	360.475989559226	420.446810988909	552.962676093514
LHB	144.70348930646	137.370670726978	134.56763097313	132.772085211553
	146.266350809492	153.829636228764	147.766043861937	146.519312568214
	145.10302792449	147.928629511539	120.280241193135	138.551695969102

LHCGR	118.966992191892	122.158160927149	129.231455282441	116.14662237541
	118.514618614167	110.925532078514	122.89752183991	123.45956380046
	120.488694213288	115.142111396055	106.797707723826	123.406144497577
LHFP	825.034504959272	781.461780481171	731.284098301795	793.300636780035
	216.974834077975	250.676092725829	228.713818522476	257.573614085223
	315.863232876382	419.4017188518	231.018059960001	250.30085097088
LHFPL1	152.219906297607	135.283742166077	136.841506794489	
	146.442734810495	137.50609001002	147.335403843539	157.130045415943
	131.427686241226	143.0235772247	130.311471059267	137.874370839801
	128.773129597793			
LHFPL2	714.494228450456	524.725307261999	376.082040863747	
	420.95713139384	340.547010951537	570.130804179186	735.165830487162
	362.445813697676	345.627266482686	632.031410234577	696.976036382401
	619.995008098949			
LHFPL3	121.865696440776	146.293735120772	129.661073814998	
	142.531683761072	117.815045605383	122.153996665065	138.994857740356
	128.42287610189	121.636361281148	124.164523121103	132.390330703084
	143.860092956392			
LHFPL4	137.999190557332	135.075759558051	136.83883055114	
	126.865622462379	145.855671447779	146.135269553731	122.190734676247
	137.240806191881	140.641308444844	150.767158077219	140.831508792119
	146.984888309556			
LHFPL5	158.756424011719	150.536178574986	161.470611189347	
	143.275056599274	156.576585764311	156.151075965844	136.716554749722
	163.579282884905	149.570242115956	159.701028026285	149.061464748604
	141.923103467306			
LHPP	635.038752622494	698.358285634451	718.142991571468	821.265710686098
	327.635520861099	270.679613997675	274.831898505989	265.754141836026
	328.919401925375	532.786041960586	374.761007556839	237.88097138936
LHX1	130.150998843383	121.997885377703	121.675007387533	130.778164962583
	114.726808450831	117.923459503989	130.555405606993	122.742891063864
	125.236926572282	132.273354705213	144.210698143215	131.861469782134
LHX2	122.018200592563	107.605526304445	110.061459744714	108.21185649774
	152.129092774005	138.967080709927	124.551603326682	113.708683868028
	116.252227301161	112.495783269169	126.058167594519	115.473431881597
LHX3	123.505435008269	119.375727296235	123.368137868951	126.728375196449
	130.074786642758	118.875640081461	121.539958110688	126.471321085803
	120.397683153445	123.977467396003	133.738587139139	127.462293158337
LHX4	124.486701452062	130.429076594441	115.738984899365	123.161953011069
	143.713962738562	143.652009342522	129.049273337631	130.504023268824
	140.36602776806	130.856249657101	144.131743978192	129.292284546767
LHX5	159.966729941991	139.875260384886	148.729753117861	142.143709425075
	156.351734527745	163.600888221193	182.470538043064	155.815785551964
	143.324235640446	134.770852936106	137.680019787902	151.984619204523
LHX6	145.591320521493	174.127444395862	144.99221793877	193.744461104128
	142.279695592224	154.161892545061	143.831294912255	207.467591256549
	172.509081696309	148.00952002903	147.284005815059	145.34533633425
LHX8	106.629065516249	109.228587997052	106.746545626069	113.388450168062
	124.329980024986	110.829107724132	104.223476853877	102.255408120852
	108.515401509039	113.748724650063	114.818898581401	101.431474941041
LHX9	130.541449457342	133.365793958118	134.70636200986	137.163699337032
	137.869471689534	137.212568398657	138.972789382679	134.988545581219
	139.155456340488	144.351763882823	129.701347789845	147.670425834523

LIAS	271.791126011275	282.244214637625	380.888728347647	315.752980521266
	181.479652131104	211.692743811486	220.415211013843	254.517135747445
	232.414763435965	226.640323471375	271.522696252995	228.384686248604
LIF	164.208044717557	203.943245360496	141.246352591355	177.16711492983
	164.433462115832	172.46311371589	153.162313098346	155.917655560227
	146.814457904682	165.926301648161	153.408890091225	186.296882059398
LIFR	228.588693548447	325.082620845425	256.202924421798	244.307627077001
	162.147989253357	186.866029149035	156.141123407905	141.964796033176
	155.449724554217	142.303654405005	140.041977349982	146.541890150631
LIG1	191.056705282378	189.708396835236	198.191669030952	193.064450357153
	927.137881369911	357.835334661098	292.23287968517	542.544172683021
	481.933386283351	292.746711619565	259.472319994929	345.433025456954
LIG3	191.093283411655	181.328458560967	162.026757124868	228.9901869793
	204.959164579011	145.431393142782	192.375251343504	205.728673153914
	172.7330526128	148.587929928134	180.070209705044	168.298606558886
LIG4	165.480489678822	160.57963709333	155.468848105615	146.696029753123
	161.795378938402	159.266921692363	148.057700860759	158.171302275984
	157.547814187442	171.455216889348	151.819220292189	158.505363728431
LILRA1	123.072413274454	123.891115326934	120.345546077894	
	126.310788291075	112.248047602652	107.170981307304	121.289159587394
	115.343251487944	121.021776527531	117.089207321783	121.448671447499
	114.494394548044			
LILRA2	111.820208385514	123.400143662218	116.881212516879	
	122.236134282757	116.718099363329	118.446703299916	120.638330368388
	138.605661097886	132.379706531581	128.093945009882	115.332409360957
	111.632811186988			
LILRA3	127.006746526023	127.763186950161	123.728481007459	
	125.915689078001	136.158508521357	139.032275257901	128.445065383646
	143.650172124086	145.776143302784	134.022324496729	129.483116877682
	128.739880189022			
LILRA4	119.682747854629	133.286702819953	120.201521341263	
	134.202497785854	125.029516472944	127.026168862919	123.762963668211
	123.595133376092	135.252082574955	133.550008967009	165.443069511115
	126.100454068838			
LILRA5	153.873826757907	139.377027955744	154.509924503184	
	142.711117470317	146.437565098335	135.139676303901	140.569391362701
	149.975892236985	155.121309543738	142.478528530514	147.330897105911
	133.778595695007			
LILRA6	153.308956040034	149.795655754301	148.171225002967	
	138.838795320713	139.892371997205	147.387754442307	146.994103804515
	140.443415669628	144.54895913821	140.356164189622	129.566451901256
	143.112205432731			
LILRB1	7292.0342195035	7631.6124232898	6460.4291301245	
	7601.58151657937	2061.9164323309	8030.19731415448	4266.92715355342
	6919.4226838505	5789.71932579854	4068.18567686753	6214.77579017084
	5425.58761099475			
LILRB2	144.345080865349	145.718019736542	142.540433565262	
	147.642693777383	148.147294674218	148.758316681306	156.033897758869
	158.295583769612	162.652929339533	150.367927843529	130.588481497083
	140.05012958679			
LILRB3	15809.9561036761	13809.2057928642	15851.5830405813	
	15463.4998494462	5601.24254062491	14300.8562978211	9219.38828280399
	13700.8527522612	13645.150201952	8596.90650022148	9671.66667662331
	10474.0047946187			

LIIRB4 146.548348470748 133.742490937191 147.710252756854
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 180.80811429888 162.308297940279 149.824791474186 156.265168005937
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 132.033116673897 124.297848065172 139.880733465536 149.8919086368
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 127.492376657284
 LIM2 107.884870799936 109.355444907633 113.549098821204 112.851805868467
 119.859508630454 105.010952544907 111.975027473284 102.932013031511
 111.188410935711 103.594872791657 117.718893827092 114.226028611171
 LIMA1 789.971871940893 542.740017003369 478.847650837714 421.583441056026
 346.691690520054 268.328002606268 716.731984660463 415.82312615045
 592.387650564803 814.759191652981 1148.80141486692 359.363523948825
 LIMCH1 1499.07462479938 1289.56069670699 1408.08614963928
 1040.73829397913 386.817736004263 626.582864105324 3363.51782842264
 607.979208454176 619.380514697732 234.243977361232 1780.97169244555
 841.623780229898
 LIMD1 112.729141678141 119.890260409414 118.80458302894 111.497241941203
 112.219585614955 116.943791343147 115.485515429446 117.244895482991
 104.58424134098 120.511896155396 131.371129237005 122.759905480504
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 882.798927428142 291.50783830983 433.019478861638 509.618968665191
 LIMK1 161.713311969291 152.026310884327 141.695537669891 156.218834695891
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 151.674143983846 145.416733388652 152.887471821971 153.770852731422
 LIMK2 139.052898232393 144.910863590251 134.955823960889 135.226240774124
 170.298291784762 180.528296177577 189.070238523683 147.001408450583
 168.890506147594 201.269380130546 186.140970908638 173.147311624838
 LIMS1 427.151797273226 441.435444003241 431.182384100794 391.185365567603
 241.734804013256 481.933386283351 506.659740456829 438.533112511098
 439.33566689752 645.806954296487 792.101559967381 854.815394943219
 LIMS2 1966.09691567857 2074.29945034697 2172.89794460273 3321.1350545346
 151.092066533546 145.698637908482 130.761936205169 141.121364213272
 164.497445195378 124.895023786422 157.590017103385 118.660213790078
 LIMS3 126.823886603295 133.096984735092 127.661634554996 126.370252616961
 117.824694297846 116.961391747202 122.430140354831 114.624259793353
 112.800733398209 117.461198576063 112.096627288813 121.912927816178
 LIN28 125.542301916791 115.795989631016 127.480717762966 124.853659050216
 122.873661677648 126.199219102601 125.019064287385 129.848276446896
 121.263939656119 114.021546689428 124.134916773123 120.65473121078
 LIN28B 112.758617084341 108.984922760455 119.375727296235
 118.655954393594 110.242638217587 111.962852412774 115.967513057229
 120.227386958188 122.615852682436 117.517649866653 137.894056887729
 125.628281846465

LIN37	156.085949215738	159.354364289526	145.034179171835	142.047828639169
	203.11015591813	141.898948675823	147.098474227445	156.254944793402
	149.6730835169	133.389930962407	169.927157878764	123.994188725172
LIN52	260.278595572575	225.095016600703	281.168898910065	255.273375146278
	147.985843605585	290.914381066573	202.718428167217	232.127996106421
	217.380892198811	223.531323159808	221.152973486208	226.989201461085
LIN54	189.872997882033	214.904634494921	235.43707989982	223.666832044186
	208.776711004753	388.638095539186	250.060734219351	379.546197364027
	300.937118739654	292.893332413185	235.453139389486	311.208703262497
LIN7A	149.661929885679	134.549628985766	144.12742465348	133.922855125616
	159.670815631794	125.345611085082	161.72730923536	300.199170426996
	127.167369897196	115.778736387131	126.0944894315	118.24368469845
LIN7B	258.605188272761	239.649306804266	244.925472495705	233.842749683689
	520.761305892651	220.791884858764	255.903775525554	189.693218759349
	231.0814970959	225.664432111551	207.036293322882	191.486717579847
LIN7C	163.396651801661	154.758831302515	199.423120300557	158.859389972316
	135.643341446691	169.434164890542	140.626181314061	157.751477529076
	172.916234073981	197.341423434688	184.954673605577	153.690189121681
LIN9	181.865456674829	174.107661206415	168.818595386221	186.975609955892
	200.867515935703	251.959823608766	184.135651836627	173.272062328378
	186.406439948242	188.836327151669	149.286184588967	198.437113196596
LINCR	140.493975416335	136.821228481217	148.534143255537	148.25001336038
	178.790758444269	136.815411937352	139.000248033373	138.424464248567
	236.707875629511	144.206259414981	161.37617568158	138.442378791712
LINGO1	141.353084959289	162.373508183992	160.876228450608	
	153.603765998461	171.784981874184	149.121894111871	155.680330654611
	149.97218338771	156.392603045231	152.222732770706	138.3792224631
	151.755205401737			
LINGO2	139.984102798711	143.857385585662	123.67449826277	
	133.736252068443	122.449574852865	116.082361389405	125.358906118533
	125.187617901961	124.661088039427	301.871924474014	127.385776388242
	126.285743744314			
LINGO3	122.149756212115	112.054379249781	116.179625689647	
	105.859916438163	134.840285218383	124.110446144763	132.051614319023
	147.532747354296	129.792548588929	145.224963738352	135.943252855457
	139.303747021408			
LINGO4	119.301746097298	105.952640312359	107.103635692135	
	107.655624022312	119.152881350581	112.758617084341	110.325803953516
	118.75237770613	124.455340203012	114.278113876915	118.298444816712
	106.204350278634			
LINS1	172.521737547052	182.693963066543	151.06209123698	168.830344627025
	179.250373572781	190.754349388901	189.174957940401	163.910041674646
	191.924177620803	204.942500423413	189.816900281053	199.947823264085
LIPA	513.816017871024	537.698489904622	448.644778906048	407.052451784773
	579.923640505245	619.223672253014	1188.08712008638	995.263014856158
	698.086166782221	779.922653392712	606.851072672402	903.824331691969
LIPC	140.553613300431	141.048882618651	147.117286738537	140.550044737476
	134.762169062357	145.120347147471	168.156002330441	140.92377681377
	162.117224868654	145.204870282027	139.871928127715	161.534421340752
LIPE	167.976680048356	170.541689758579	152.258389962	181.193963616037
	250.037172478288	165.763459146818	180.276082632155	162.766038656637
	195.384273821324	165.355764467096	187.205674045893	170.212679845194

LIPF	148.936888662374	146.432468585736	153.097557560333	142.383723965616
	155.669470674985	172.836730741407	141.528115502473	151.285933600303
	155.114892891737	156.803516898875	161.704966315183	159.7197697044
LIPG	130.788557333561	131.921799405427	136.241569739318	127.50624009248
	169.4478271110558	137.25679451567	156.942156078314	197.326259802349
	184.518666956721	222.086635504858	141.492458250787	161.148734808267
LIPH	126.544685937984	132.709845352383	129.856994052591	122.408016372747
	161.552475294424	125.639355645626	142.505050582588	141.923103467306
	201.441808401878	120.581554457723	216.457866890673	134.676039394438
LIPJ	111.559325333192	123.364999283696	112.436972452838	115.531710316716
	125.262445870212	114.44610607807	109.770126492743	115.235444833856
	113.133798430215	109.471542280224	108.589444216106	121.094060100325
LIPK	143.978912435831	149.799681364551	148.361088792223	130.231160879338
	167.370030272847	169.482586449402	164.146345008398	137.418345713224
	147.826950636822	159.13662975347	147.333142209628	158.514079887374
LIPK	123.13812550459	125.034243098087	118.206034087145	125.924219382375
	125.720102558499	120.220156455352	120.365602682311	123.905462079972
	121.124574985464	118.256000539093	139.927773713324	126.211525910631
LIPL2	149.435684626505	145.245316640391	163.275138097131	145.407517107023
	163.778790431064	159.646538408414	147.772490977392	155.542691937539
	130.501010489883	140.085359251038	147.696506705909	154.417731984391
LIPL3	175.608958881476	157.032746784217	143.971152352313	173.488272345038
	141.825162897153	153.423579724911	155.086559474139	155.83143112621
	155.223806761489	169.45559708224	153.532954370572	149.131218007756
LIPL4	155.219860096943	144.240470871638	159.289148392284	158.937341335707
	158.188039933865	170.516743115762	155.820194280153	157.344758285153
	141.721829342179	152.717642489582	132.657106732366	161.16688895179
LIPM	141.069243738242	125.661697165943	125.687688416588	126.55925846644
	129.38021642675	145.435794613203	135.659271030454	144.520435611318
	133.150660840801	138.968690339299	129.362793087439	136.147810636915
LIPN	129.213523302268	117.602986362773	141.042265614693	125.150706047419
	120.465934391246	126.875483714734	132.373302367869	122.600274773736
	121.784166691545	131.865164933746	125.683334853039	126.205931638442
LIPT1	195.239829623017	178.551434222154	187.550461418888	166.415922313464
	163.968901692945	207.815226999953	207.440700355457	213.93763684072
	193.589480577091	202.458096827378	210.290500215377	191.335616210093
LITAF	2267.0818302379	2620.17683549005	1966.09691567857	2137.44704613378
	1411.2586496281	1098.78649254838	2672.77147589342	1390.95426299323
	2672.77147589342	1361.54107116915	2816.29814823646	1548.09554827056
LIX1	173.611295051326	157.096799934494	174.116797337377	164.466332705334
	175.462290891421	178.728925255163	161.968835903764	179.273936200852
	165.581217879395	170.150889760372	154.996829706812	175.350734537491
LIX1L	302.408563830315	273.806452412737	324.79327985156	280.798003990849
	207.902853533132	134.022324496729	135.102827224896	178.531913384538
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	3359.62015747752	1223.68146968716	941.572186137467	460.651156484562
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LRP4	158.943005736645	153.336395746742	146.984888309556	161.713311969291
	212.836093887552	156.516250236679	199.191065549132	166.521472376759
	174.187510325385	180.219813240126	150.799400717425	149.73250641246
LRP5	297.636316709322	370.140588087649	333.349203784021	468.569725051459
	816.580880338838	353.078842299761	464.128022170285	274.281532397691
	264.654879741889	210.392662092721	390.501797367707	431.413030534188
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	300.482945704017	462.144334719146	317.949646885539	306.43742010208
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LRP6 157.435477846812 160.880152014981 151.002218995005 151.479748626813
136.409960447884 155.249688219254 173.863373934746 143.338628928675
142.903851392611 127.407418037777 165.017178571218 144.129889080946
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166.277960843095 224.466829629468 142.081013617671 194.847305068008
LRPAP1 738.892511276134 722.974310297586 927.137881369911
655.094843900848 1699.8374761666 881.561688713557 1589.70261092241
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LRPPRC 526.726224327409 562.089999265955 555.607185132941
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LRRC10 169.844913799159 163.086539217826 154.033776287398
171.350620456505 167.284724396943 158.089922688997 156.330571337475
161.501062527272 160.297609596399 151.488973553441 157.654040469774
162.199381540369
LRRC14 381.121621815163 454.34729744062 458.33221423434
584.199252444401 482.466736153026 320.467139255533 318.004190156313
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117.943511615792 117.77708734157 116.276003190171 135.369146072643
113.726931741236
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169.656238760589 164.429483677715 176.155413809391 184.591789011195
211.844563155792 161.906823008445 184.451469623426 224.027605834751
192.059255232313
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139.39442529119 135.278293996444 155.121309543738 154.615097099186
137.75060150486 146.701489210289 134.475296383752 149.659505956629
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LRRC17 180.01471631205 198.311821616128 208.955110569558
261.286548990435 136.975775196224 138.081268025435 131.690417323838
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LRRC18 152.834894011142 156.856149172225 148.609721587632
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LRRC19 121.825639714374 121.924036463998 117.034228068173
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LRRC20 243.441938832251 302.021033686056 288.261250589513
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MAK16	456.038981546175	394.892918166519	417.36454228858	421.140525880287
	284.13865992802	753.654626233604	460.514672966125	560.602047253306
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MALAT1	139.361120875198	136.432109029368	117.390049487174	
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	136.837430157894	154.199534276226	149.338249249161	156.448355269561
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	134.312156667838	150.016550610991	143.88649412841	149.874424976813
	128.052753068991	127.776112651456	169.043206258073	143.155998311198
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	210.822216545773	125.132610413051	141.568970008164	140.327799236005
	148.611352905643	151.939710544553	161.382041789666	139.706279455371
	139.864176113337			
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	197.795275907042	176.579096613849	184.557630172634	179.137734914428
	328.60529053804	259.277693314055	218.08515867102	242.902900881585
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	183.482640529727	231.191287595191	178.096998157452	211.395593720534
	180.798671424395	195.123919692348	186.866029149035	197.405472374722
	176.486551181451			
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	814.471143753335	2151.9395095819	557.405157178952	662.373189001788
	544.30845362168	714.6859666834	831.08287594363	884.747476952289
	437.049581919144			
MAN1C1	276.961847241646	262.577672828611	283.416246133873	
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	1208.9240215109	174.23955831109	122.944699010173	215.698924670416
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MAN2A1	321.568127272161	292.068293167526	257.622317771472	
	237.312766830206	249.400820221233	299.039192744355	338.510045856515
	343.048904374136	233.757965816721	359.256193328366	385.238961394234
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MAN2A2	156.497059936271	165.926301648161	162.039394839415	
	143.202498941866	143.50323531501	170.361237529247	159.286484253487
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	154.354658146438			
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	315.130912368929	362.195903246495	288.770330002807	300.886032768166
	268.370347292603	223.013753785002	245.454945056317	272.639413442579
	229.689010178622			
MAN2B2	1626.34607278613	1660.70040058102	1587.84395475807	
	1744.58410715956	1609.54149931375	786.160002434066	1762.09874961415
	1072.82323999638	1213.61170930345	942.900963522948	2072.01578063404
	1245.47421607111			
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	349.128741707506	307.768302846647	159.35787888191	294.033003779363
	184.071078414327	253.218123990428	235.32095278846	275.929414239664
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MANBA	454.030083521756	386.305638633172	459.30568829087	359.162549472301
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MANBAL	1240.4863200811	1332.11815966955	1221.58522138654	
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MANEA	137.68634745111	146.830752309354	137.353149614081	151.801558435863
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MANEAL	127.464485396039	134.922488718676	137.276586668477	
	140.226586111216	222.919473675549	249.633252091596	188.864388750448
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	3066.69261114251	5582.64254130978	4486.35687688252	5846.17594234628
	6944.90824302953	1208.25171673432	5040.35379681644	1854.11328962023
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MAP1A	757.877066703516	1056.43975075255	673.502723625773	1966.09691567857
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MAP1LC3A	936.560290736127	885.927972780392	845.646455991008	
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	393.98210915852			
MAP1LC3B2	132.008330288281	145.424827607383	150.670783991982	
	160.833948531272	156.907788377794	141.304791640723	143.141852982371
	138.256765189241	141.250892771145	152.353494489233	137.999190557332
	159.390531348676			
MAP1LC3C	157.81831741292	145.418696807842	166.422360032182	
	144.096048197835	128.351235762192	143.265532486512	168.3523504179
	154.87316176388	145.365935017728	144.400004730049	157.66595229182
	149.078664825533			
MAP1S	332.599191067433	424.134483971176	303.858574395969	488.14606875418
	846.084919104262	290.326832430372	290.420307322101	310.815067427296
	240.147082836599	207.598754515294	275.072079692264	281.659653592151
MAP2	143.785769607842	151.301484852387	144.295556086504	153.477432230141
	145.491525555916	142.427198128376	140.960907353937	137.996291911198
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MAP2K1	541.896444696137	498.641091757363	578.297031096292	
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MAST4	172.46311371589	159.245344068037	135.433229702209	143.210208388432
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	154.774977482202	184.008405576875	155.201655653645	177.84188738734
MASTL	133.083877012766	146.616041788595	138.841385034636	132.813199199389
	191.207048581306	192.399146702036	181.991820141929	173.678096732903
	177.708263037199	158.390337945372	192.475309217696	200.890547965585
MAT1A	106.000943456483	107.638492587723	107.863971340407	121.632494500096
	107.187035835972	122.84779238795	116.328330266803	119.733311319912
	103.94864861172	98.1433670546536	133.54741488531	124.028748209411
MAT2A	5601.24254062491	5115.14161559446	3822.05744774919	3983.37592132018
	1677.93424842267	5489.19362780613	2808.78353621111	3413.39994653641
	3066.69261114251	1916.46158204806	3615.76740804718	3177.80599774525

MAT2B	596.246316033079	708.056533282983	771.512332113075	658.968318349334
	554.115756730498	467.187222441283	793.300636780035	769.586135629964
	643.13571432061	768.334658920971	555.259469428492	686.679573646733
MATK	143.716377201615	146.851307767958	136.65402176085	144.525782437057
	155.694213876736	144.182891591399	148.816369706133	154.755544586846
	165.027938535393	157.288308753975	150.709091532746	163.081050585097
MATN1	140.195820033314	155.545904088857	138.980079440205	133.099175110023
	137.434039024162	141.583936153499	137.04010227318	152.532083511961
	143.683545371898	148.603077434646	147.920946479942	147.968104627262
MATN2	2325.02143920169	1756.88092410303	1505.09908072606	1047.78978081493
	159.032710656826	227.689356258276	160.290104492275	1424.79466712859
	711.729857540712	169.192327500032	691.397238677552	266.347965690851
MATN3	118.029258839619	115.371180170291	116.635455849571	123.681353449198
	112.227434965199	129.505139430366	130.441808139335	120.891023626809
	120.735176435195	125.882246459692	152.342712570625	127.629258006335
MATN4	124.157302365291	118.184571821176	119.725487374119	121.59661598908
	118.694037994926	122.603226380439	117.688941284427	128.570067783535
	126.533083459283	120.342513393659	117.123891785437	129.334217858282
MATR3	1296.10827265334	1211.94273385872	1323.91781040143	915.579581760396
	787.874585290601	1468.50184641042	1239.13016938378	1119.23362648056
	960.775251871864	1071.00507864299	1195.07608384189	1262.96801072965
MAX	175.711836112986	165.134931755194	194.921021761976	171.62327142765
	168.295044843056	152.407614042236	179.94333102877	162.574338133241
	165.890492422031	190.255797389524	170.266415287865	192.954269340616
MAZ	129.527271401014	139.263602290256	132.471014832851	132.061436165754
	188.941900997781	143.999000471746	133.220878146063	131.545287070888
	144.468333012278	139.202670489857	173.708509414674	133.783379558598
MB	131.036225888592	139.338384535905	126.897804011992	132.141918502025
	137.138266859156	126.394032757479	128.748663215466	162.117224868654
	124.048926099805	129.792548588929	130.461084106455	126.253319664664
MBD1	181.439775614781	176.236140830355	219.2695037071	188.45479937455
	169.556358586336	176.883702717029	318.244342364572	210.711890471222
	244.307627077001	268.885346595453	240.836979012241	287.503594820801
MBD2	147.539226876636	147.67708956438	144.316475814221	143.874735808114
	147.600825146067	154.487546030444	159.120172969378	158.147502554814
	160.449911844008	195.755450324985	157.449891798638	162.229052648595
MBD3	260.921177985439	269.141120401835	191.3765085801	323.20628717764
	462.553267274302	247.942904862478	247.194197143562	208.611557959861
	210.199788806189	176.533058719908	246.77831953556	183.443006525616
MBD3L1	115.389934936253	117.870230005125	121.138461509096	
	109.37466528113	116.023563001039	131.611842804029	108.446988282853
	121.438875373878	108.646136431909	122.914680091926	126.629012619208
	112.449662536973			
MBD3L2	170.596937075493	187.264411519101	179.730694272916	
	183.764215745794	169.661107080542	189.708396835236	194.500222559978
	171.155660467037	166.692386207143	160.035282578603	150.2214516849
	156.392603045231			
MBD3L5	136.037555727438	127.187020441742	135.907702243922	
	120.873985900666	134.175287993769	129.888444399067	131.426355444136
	124.019707408094	131.079066781806	128.276471459777	133.056659202188
	127.9928491829			
MBD4	5670.70220800096	5281.353685715	3989.14883668905	4579.62296570302
	738.892511276134	4359.98094976179	2107.99357083999	3378.126661761
	2183.18692530644	1484.32547474275	3833.73632806344	2233.00694575483

MBD5	154.051705030348	147.44463861207	184.62149494522	150.319052894567
	141.340452225686	134.891736344801	150.152613183213	156.682781772069
	144.201723591119	133.796029401157	143.915205639368	156.151075965844
MBD6	619.487800014979	667.693216401836	557.513306351027	1001.65849130836
	789.043948009585	608.351527783086	728.743541467167	643.306565600931
	802.304294140514	475.213525346293	868.86246684338	710.531876484467
MBIP	283.235844022826	265.402310598892	329.926864732606	286.541028896473
	167.194306682927	340.301980622308	312.484289357493	277.652851236546
	202.230920499592	283.760131847707	259.625943627223	300.443499140896
MBL1P1	145.783320434143	156.098240321674	143.814798097425	
	142.362022977137	154.542190113901	144.288714958892	144.842687993057
	161.225608630791	164.736294372006	154.340042518983	160.773510498005
	161.325409589612			
MBL2	110.885714048075	116.802432258299	122.578170988039	120.311723366684
	120.77691423934	122.327353563917	113.504670764963	117.423704591303
	115.587874563785	122.550707067805	121.010811158088	115.085961282227
MBLAC1	153.02127620577	139.577443171489	162.997720993338	
	149.774162138829	174.42996813062	125.14833026167	161.475694690038
	135.375268329248	154.865107093653	147.896919205072	147.228812647235
	148.049570580734			
MBLAC2	194.847305068008	189.136114953249	223.311817085871	
	187.389039221193	156.221773628832	183.993497813128	174.187510325385
	159.032710656826	156.136962310077	210.620764703468	182.786177632757
	171.602950766191			
MBNL1	1362.75971646355	1048.26872286983	1214.16777512885	991.081498002429
	295.607161318725	359.440639663655	333.439929772897	352.5627111030848
	401.960630197091	430.649188209901	337.271784551586	324.615093103582
MBNL2	915.015154168627	814.759191652981	742.517302567436	666.570977208535
	288.221041179309	549.569374872629	472.108893832845	337.822337721287
	354.205670284123	331.018914429561	494.604716660887	536.46884541183
MBNL3	167.769114519774	187.833356349429	162.212442593001	174.158372889364
	171.884800118791	153.95855605751	147.094123051131	146.692827583525
	149.153827025981	150.880818951088	172.26834556696	160.0697586671
MBOAT1	252.761035334279	269.053237303244	234.126500054945	
	229.116153948948	156.949439724914	180.619956937489	209.385358804928
	217.811099067262	191.348260799746	158.249743182741	189.94130405123
	197.740912476527			
MBOAT2	293.825372123877	262.093405224922	300.53017771156	
	267.800523478098	154.630837508249	238.095599711942	193.218266574099
	211.357321758564	176.802886129341	398.892968579918	277.101000223971
	199.916301659113			
MBOAT4	116.71331256222	119.382151435379	131.023892409073	
	121.830137285032	113.609215169397	121.893446546512	120.085340927108
	118.655954393594	109.924867620862	117.652693591865	111.743461522689
	119.849895979393			
MBOAT7	439.616817413027	536.9324595176	424.201556056759	
	510.555184032017	6114.33638002734	1145.96710556468	1349.84215478798
	832.335328912437	1456.76683429755	482.226889092547	1614.00098175383
	1078.41947691758			
MBP	320.024259346646	286.282132382462	315.863232876382	260.746952459282
	259.277693314055	300.199170426996	315.064477782052	467.681480781925
	326.570967321756	548.138527647594	466.909037277853	513.518424350159

MBTD1	619.75986112089	526.416479408056	504.502047826003	522.899203071911
	194.143649677822	472.030150842569	331.32397534437	421.459312180809
	375.255445179952	281.659653592151	392.824840252824	326.379855547052
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	575.546802138889	680.94167651697	566.914448800423	523.937128789616
	381.014521577291	597.651682540611	512.541205235935	601.164127925014
	514.463945278314			
MBTPS2	135.238301951626	141.4587810296	168.460095116205	
	137.112274459462	178.52221226882	161.559920910487	143.497909064641
	153.907737500104	155.478383896934	166.099940078284	141.880044424342
	150.599425944486			
MC1R	227.668046559074	275.755038921952	182.181756507598	202.909188070184
	227.847614397311	234.693846527867	157.787233338636	923.130629121442
	198.620777452192	235.453139389486	257.408058436941	302.809011218879
MC2R	141.474583706011	150.621893089808	147.608094270078	156.365413649149
	130.342425029134	157.805871400914	157.863585655333	165.41729888767
	152.821735300697	176.11287574658	137.782648137869	155.908951665928
MC3R	114.412739085949	133.975526667571	110.966212705086	111.860763079995
	100.746407116143	118.348153875356	108.101686347192	107.013012418356
	116.688949603376	111.260486045985	115.118170902045	107.993707827557
MC4R	136.284283129801	156.269957530519	148.007068300762	163.356993518952
	147.751554743466	163.843143947012	161.335677383485	151.121293928309
	146.108551647446	129.717701654435	133.757741295765	151.134466830828
MC5R	151.905534823403	130.980885733161	156.003233745771	142.963036923104
	142.898851434337	140.13515064896	130.928718312512	127.67121559907
	128.304919825754	126.343040504566	134.266373965186	124.828626063272
MCAM	433.189221987242	539.27766384282	297.368197598038	600.838420404663
	125.639355645626	125.997109913348	125.624661345169	136.596127228365
	126.155486659114	131.839206336057	134.838366830668	127.269672881591
MCART1	14699.3902364192	14544.3732040823	15194.4972103372	
	13809.2057928642	1974.49672149862	11809.4804843301	5624.32062666666
	8581.41617729997	8096.28093399619	4602.81651147558	7016.12801650552
	6851.54963413886			
MCART2	122.883806494491	139.444577046509	125.531371673679	
	129.067538010904	114.084543168359	130.461084106455	122.194493542073
	131.489715975987	132.367155914392	134.346754381858	116.929398630733
	125.073353210914			
MCART6	135.311980936088	133.736252068443	132.992071643179	
	123.065355919378	133.872561340464	127.492376657284	142.403121638265
	129.327645260099	139.326694135427	134.387256336429	132.016944935305
	127.514381389109			
MCAT	154.524588318927	159.311949668403	153.93927752488	156.01406297447
	234.432954093705	213.556015518863	183.804849355341	183.921173538112
	200.387623661458	166.81024151246	195.50039162477	190.152824885328
MCC	132.64813248505	132.14412512622	156.557792402376	126.722212054469
	134.238642042323	153.643157329902	176.995049477843	132.059507616101
	123.678365506247	167.42476096854	180.096239155058	141.125248464806
MCCC1	444.712990986138	509.01330998156	694.02978779693	363.89527566597
	1006.24899131914	953.099915501575	1127.07858210156	649.438995824208
	1062.749459378	430.412897698085	1103.13439876128	922.50743596248
MCCC2	183.744959461078	173.573412346985	169.285901212492	167.028001762818
	180.698727334322	250.406775889932	284.104619768635	247.683819429859
	292.911761762431	210.245551279259	240.465165615601	247.340470321453

MCCD1	157.494596757446	167.397758092427	159.320692108734	176.86489466512
	151.382199195953	158.150949554785	152.104170622003	157.623092996114
	162.970595558845	146.526744516344	137.752238510249	138.681348536008
MCEE	429.992169596618	376.692422468905	604.237898104299	410.002817143111
	986.441377365124	513.036729214095	458.705688226305	673.502723625773
	614.775559038663	480.101253056873	751.896334334052	315.513423195489
MCF2	124.066239570648	117.404906698431	121.130837254861	111.161283080299
	119.876835248732	112.710573586525	112.962180108363	114.452922529209
	117.15886922795	115.217608555334	128.649329515033	114.85602874727
MCF2L	149.710337205986	156.375876454394	150.0512732245	145.455411983653
	157.449891798638	204.616225498655	176.347535860374	163.686535888943
	153.062710222618	134.078506829054	177.592497020798	182.798526632723
MCF2L2	131.631968933144	136.86685787001	142.970256312313	
	132.48841450242	140.818413826758	131.583841535781	141.494666823639
	143.019052979243	136.465185148237	146.291932367254	157.792868983503
	139.885054845153			
MCFD2	246.533813165981	253.42022722564	232.444867422559	216.05364037271
	193.444080047879	212.643559782754	229.567444213626	178.394895649664
	189.092674335503	271.196028302639	218.592402813219	211.966139902562
MCHR1	143.056098955473	121.665157726433	134.301187092088	138.5270206057
	128.245734702114	137.354782768068	122.087107663865	125.418782388128
	138.861385127242	131.377361030122	133.239703270008	114.099623939954
MCHR2	150.211719786127	159.05213637758	153.97869518398	158.49220347186
	139.029404397979	170.028047334267	151.245520459264	142.376921410427
	146.326067008478	136.453821861379	154.316929706697	136.705326991088
MCL1	722.725186727796	698.882871686866	554.652979820908	473.370240289761
	404.95944990868	1023.94850651125	509.14726076246	809.545702751155
	851.633522004342	1597.53010317504	526.285114043212	771.059329972125
MCM10	134.262346867514	135.940629737073	130.334622987505	129.366567668463
	251.09230266334	434.390613381746	129.887187837732	186.563913311757
	224.251136332123	181.022635001204	156.557792402376	226.114369645703
MCM2	159.640027194076	197.775397831129	139.526241501184	206.650760711745
	1048.85768964657	382.186095123659	248.761038207278	501.301694626942
	510.061974830525	244.219585315024	184.008405576875	248.562843471699
MCM3	835.834013018438	1106.21439150501	1018.38836615952	1226.74043569231
	1918.14260920544	1197.58205444449	1099.37392456694	1340.79810963983
	1696.69982157582	1193.82799849555	1536.52218968817	1481.24705642453
MCM3AP	626.298707790229	633.104379362137	544.852019338212	
	695.321886304133	352.121800955822	615.485984065221	646.461274173693
	672.637760135254	846.985164747386	587.388038484307	777.901979189395
	667.156197045748			
MCM3APAS	178.106013202731	146.70594914192	151.9565369062	
	137.988325215021	145.612695657243	148.094036534405	151.479748626813
	167.180406126438	153.350690419636	144.81320329947	142.243866937888
	166.714793209109			
MCM4	182.938824846376	199.408907117764	222.565515020501	211.891710626953
	793.501244347257	952.357976050712	427.452114719877	699.270931701696
	912.143424293236	668.853969513382	353.621264641814	570.26564132238
MCM5	233.464856303761	267.747633122387	221.050093964575	289.037033338975
	1367.92869625376	446.819873986024	247.307128520272	399.248044997427
	486.778046640624	383.74357557363	265.992741398183	291.261765585473
MCM6	759.058176862524	686.801358367968	698.590134238302	713.087392708048
	1181.1611856364	1873.84654908146	613.846166856328	1654.58270183167
	1466.08446530283	1162.8644618472	627.335757721489	988.788192022196

MCM7	486.653672099699	574.496860164135	634.046843336128	670.347447480331
	1885.93146154931	1007.7803477458	597.952909577121	1482.92498205315
	1160.78730097715	693.339946866196	738.579262579782	1088.25132365974
MCM8	6548.65498784806	7038.48958943724	6776.11712291246	5874.57722671552
	1651.68171717875	7601.58151657937	3581.36347643133	6114.33638002734
	5291.83393775761	3287.37172778474	5748.57645553386	4732.31591164752
MCM9	125.535877109652	140.416247564103	124.652072110334	126.075528093376
	121.705065573911	118.56332995149	120.585506729733	133.104560685558
	127.951403055054	140.583804906052	135.018710687313	139.87715485885
MCMDC1	139.754028208983	123.683553177379	123.860747215706	
	130.09050436943	116.474771810965	133.556805738801	126.294085960617
	121.252042151856	129.707421699091	130.511042322504	132.381685434931
	131.597937570173			
MCOLN1	265.536429548886	242.971958493453	226.334672545273	
	274.01377986185	505.560841055884	361.969355316032	273.668871896558
	287.967349876429	214.331491507489	263.74335003375	220.379186481273
	219.564603776774			
MCOLN2	165.565284723155	148.158062155247	131.400031203603	
	123.700076467648	153.592819860747	146.877475544399	174.192898940601
	241.799709160815	519.27448770158	176.75095377028	185.016336026382
	172.562162872242			
MCOLN3	172.531836863525	169.864628707043	163.004844049672	
	169.408892048115	164.82904652634	174.646321871605	157.390513637267
	160.466187961848	167.724233915361	199.135932984641	155.803946849495
	160.466187961848			
MCPH1	189.83433085782	170.007845523415	222.118666699301	194.36669779004
	137.342348963288	157.328404229451	206.186324475847	202.778539118009
	165.51742391186	172.816477996646	203.357914242777	170.473956720945
MCRS1	452.517134370928	491.35949123223	482.592481827722	572.753294955207
	832.622843175217	468.569725051459	568.555967950896	647.666334416707
	652.201948082657	605.21685916883	491.35949123223	603.338538383128
MCTP1	136.02474314035	137.53234136613	134.863223806176	128.775477649887
	131.530256606799	132.018833785059	127.938245853896	128.990911924499
	135.039901725369	189.225893411944	142.839077978518	126.563876945046
MCTP2	121.047419779542	116.258629237662	118.351607868932	116.994216357989
	117.084984190461	122.834017529045	144.934103671894	128.645334554749
	125.624661345169	142.199182392836	161.640122360448	177.19138801548
MCTS1	347.866264631778	329.146025181674	307.316241247336	284.675990197899
	817.913210743023	371.552970811499	613.631311147328	530.387315639095
	533.784151495549	636.781477235579	597.459920611726	606.003956839826
MDC1	678.365575489532	694.429144766435	652.429025114523	584.919615953457
	794.636255515909	411.968307579588	340.487850009685	468.82816089485
	437.344765185802	390.670702155192	375.038561820137	355.372836460906
MDFI	125.093376753408	130.062015525637	110.17590675298	117.815045605383
	122.863612588759	122.535728427528	117.494422663086	117.847744476387
	115.101971719657	130.570050159191	138.154799037807	118.414329128347
MDFIC	160.816803370151	146.014790698087	176.791758333054	143.140502042489
	145.759500305177	199.353823724989	192.512661648653	221.231455446574
	180.680595239651	224.251136332123	175.165305179665	215.47323777134
MDGA1	156.557792402376	156.304678960663	138.745560049251	140.885915460425
	219.709231012465	152.11956441072	289.667302610069	139.966813133326
	141.164985468046	147.87699690647	153.805972158269	160.493314658788

MDGA2	114.556542069712	121.818632020666	118.109991440011	115.907902010701
	118.383317097375	113.143436184959	103.99234480919	107.498500136859
	116.889373249017	121.803676441059	125.999595008166	109.209241676429
MDH1	2660.39990175415	2992.18604022433	4397.32311216672	3749.80462365748
	3222.23985545506	4437.40805296517	2382.87910783088	4198.61471038267
	2537.90501983425	3408.6535437109	2157.50118108142	2932.64120183406
MDH1B	175.79375235478	157.134782748175	182.310140388705	170.099045774947
	149.8035588048	140.976675511847	150.784262878145	141.639216893245
	128.717719117128	147.532747354296	145.864902319111	134.302726684539
MDH2	6179.86800320807	6244.58472720999	6470.73189429877	8739.02966610274
	12818.0509395717	5874.57722671552	6585.34962362923	9715.20127757161
	8649.07367196998	6091.9840719327	5955.10816224456	9759.87403504619
MDK	221.889331385023	248.465457421469	157.288308753975	203.831047867731
	820.249910349431	986.004777675332	1222.59895569348	765.532997390972
	1451.64055568759	224.981439707657	999.159652508318	663.451243037105
MDM1	162.397078614596	158.967160833334	188.308588359317	171.909358721737
	151.153466809603	243.191238594142	147.664505309713	203.727455875381
	165.41729888767	168.6016897585	153.798367953373	161.456727894848
MDM2	139.365595511181	135.834000569736	147.691011072898	144.671459266861
	144.96670085147	333.745543022749	156.277567608825	182.665357598121
	146.370084152094	151.130401750721	140.036463888037	143.368327095618
MDM4	167.07092218037	161.393953325115	173.513108409372	180.578528984075
	162.649092834422	198.549047189499	158.675960205792	167.521700144143
	184.974347306539	147.15764785567	171.504939477949	229.130679600654
MDN1	194.002075848131	178.790758444269	205.546628064296	173.624709850889
	173.240598306749	193.358728044565	172.008994980259	168.824578400555
	172.077522197357	178.014057622594	151.256546638599	187.057683141644
MDP1	262.577672828611	244.627091189503	263.204269632206	207.560911665319
	269.300548648755	214.888126361789	259.672238210968	284.272977025491
	196.345065354654	252.432175363972	288.596513753617	273.75192868583
MDS1	119.780654293448	133.079097536801	132.249906289203	134.579005092929
	120.809659457873	141.299677389827	129.517511177852	135.93352186143
	139.574895021783	125.253637835638	163.362182585182	129.208429861964
ME1	476.249239197777	360.605223912114	658.968318349334	331.464977124667
	207.960802948119	203.510106134882	278.219561902233	233.786136606682
	192.737713851863	683.365770196967	178.245841646175	168.552631639996
ME2	396.40172043456	324.346723939622	578.084277076692	361.829819621662
	327.324711245289	421.255522475862	399.963640581639	569.236322997211
	478.909308632726	424.025588636796	386.85874184746	495.099443245153
ME3	181.148062201932	181.85552254233	185.591700082272	171.884800118791
	160.364644321965	143.791908191551	155.868109161417	209.090788790449
	187.472028627511	135.588132669957	217.576547690525	165.808660192901
MEA1	442.590987372759	468.339735327273	459.53652431464	571.64723305848
	426.249411635589	515.158921349383	644.868034665476	484.568420044471
	365.650071660806	460.807117177285	467.681480781925	532.394088545421
MEAF6	204.057019122032	200.387623661458	262.061371466369	209.887047474042
	174.461487057542	220.217745732407	198.722993687455	188.093450717857
	172.783430414523	206.428618912264	186.747375844319	185.382647297259
MECP2	192.932285494022	220.633692394229	286.506419296679	208.666760987764
	185.295480519718	188.724274062294	206.446584387595	190.405863264717
	195.595275594235	193.148369507405	198.338416756432	201.320381706496
MECR	138.50252234048	138.206065640158	139.644701550661	140.513291662274
	140.06989960847	128.765369834041	130.898067924686	132.834433153076
	130.669539169739	155.278984760268	142.878258542775	133.75142055959

MED1	186.866029149035	215.300064529551	221.322724563472	178.512206531256
	173.735045816949	207.123420880185	203.852316712377	222.736706411035
	211.289598823191	199.408907117764	235.563592256037	202.691507273819
MED10	547.042461070351	433.405369327168	762.584280908728	454.732029358748
	566.543765584009	697.299604049748	731.513306289481	1017.6969123529
	688.915534194306	654.663838918786	432.726040933545	507.827473844576
MED11	165.283700641161	173.353648927895	188.475801713801	182.57496767012
	157.259599894923	159.891562221587	188.0434100445	167.077669654786
	153.59485367224	198.522123898437	229.017256104437	176.603760647035
MED12	236.745054217055	277.406445570925	243.246632667118	302.462763120177
	370.227329649269	185.923374274306	213.123453925578	183.633719048831
	226.640323471375	169.940177050294	241.134385745554	185.602093266907
MED12L	140.313216623427	122.149756212115	146.225422797118	
	125.455347031878	143.750656408155	133.697364081712	144.335732650795
	140.622130978368	110.735199684144	137.009303458922	134.457932303561
	140.251168248117			
MED13	158.039920243116	136.724298878331	144.02847768185	137.183566882805
	148.632332840817	143.426053070219	132.105184573944	140.664303738113
	150.964506212368	136.818557078622	153.943227610765	153.426409060413
MED13L	223.84997313236	176.689683169567	166.88833169342	
	176.940723174814	164.848970268132	153.128027266281	151.863048206341
	149.999838961906	150.751386127903	160.234704406302	211.289598823191
	160.303394115537			
MED14	294.871848467326	335.790909130243	340.668473351494	328.14373061894
	294.069353373633	522.300029971277	292.429831186609	428.959561932229
	296.051639873628	297.544216175512	348.98762709818	310.465070184707
MED15	180.561514455864	185.896304740844	170.497804969996	206.89716102989
	214.803167803712	152.011551837951	150.401509081265	156.022967076728
	163.36682525399	167.806420483187	200.302384864371	147.835936450126
MED16	483.845891531326	631.106334754678	548.014025722956	761.89271251455
	1325.77498031227	590.515758538373	859.547169028149	694.288215755716
	603.764427348016	658.068932688816	755.79669622705	662.373189001788
MED17	153.62335478774	156.75308999904	142.228042097379	143.188958538221
	161.592528958127	150.193479279784	166.472068379965	163.256472113745
	168.634534857593	142.483308497682	164.276668889213	142.826050917117
MED18	129.417232210341	126.026938396257	126.305273697185	115.25307661968
	171.909358721737	125.171532277078	131.162118170837	129.222714748528
	124.336297973344	109.167312436827	159.41705570719	133.411087000196
MED19	358.298768623212	333.200230327106	391.500696444149	416.215253990273
	578.947889414387	730.988069115919	718.871732206362	538.872348151809
	531.555532787504	611.088604425595	435.603911474926	735.8141982568
MED20	907.306121257236	892.038018567941	899.336817124312	920.342429282889
	660.907502776003	794.636255515909	979.761537450366	715.039905439621
	775.5664718389	897.958748317315	960.491731797061	784.412433571927
MED21	260.85776723575	231.314944217099	212.798133015556	214.4829383264
	219.619022209985	185.876046259727	191.708350637714	176.236140830355
	169.744100665038	211.468099571442	270.181005097697	168.991551886143
MED22	878.520681466946	1010.23703166498	741.689442253375	1552.69879081022
	889.6617510875	264.306927596371	394.892918166519	354.656612182522
	426.896707161414	395.425715632302	594.713185954954	332.543652462234
MED23	218.70412656621	234.626574390973	217.307872538386	213.847316974717
	218.209523110843	220.959843573708	256.326661031361	232.250434241457
	203.317264638828	239.541516080716	262.196293231028	253.098839084408

MED24	216.485113690708	250.928804390353	204.654489493854	316.081825144651
	419.593558001947	230.227432807772	306.232249422327	531.421912541822
	317.353318759931	290.090495047722	280.848426993226	222.20526515049
MED25	266.99947481587	298.209907157762	351.854828413334	296.830999357172
	1050.90881385623	354.205670284123	420.743637858421	348.300300174924
	390.501797367707	251.20133703465	319.417555901733	323.95355217044
MED26	199.209279169496	199.555406967021	192.804447792672	209.568066932367
	209.7558663154	248.204358220728	227.375773052577	265.712482648121
	198.795112039249	237.692959394487	176.465559710285	220.959843573708
MED27	207.850956786183	183.921173538112	240.439368352772	209.74583569369
	245.454945056317	239.452559981542	186.276450732044	224.466829629468
	229.483578414375	249.80160363144	199.96834355685	208.14618424983
MED28	494.067878734396	460.514672966125	375.131728190867	433.189221987242
	891.194779815063	472.514017604645	1176.01058971561	554.511983790164
	764.493610798958	637.892677173103	821.862271569917	941.936830901588
MED29	597.795856268827	629.381791489871	629.197022551069	728.930140593418
	457.411248351795	796.439819579938	749.515603904233	716.420861490714
	690.582550537485	528.921893077914	520.470790410856	566.914448800423
MED30	340.966515437272	330.241479004885	402.366797969833	287.889774984754
	473.60579090007	466.392151902286	562.891241563711	606.38343657878
	644.741046498743	409.883222213537	365.541609015117	464.128022170285
MED31	163.042083189818	165.092451754065	171.731395791818	161.172420368335
	192.475309217696	257.775569674531	213.93763684072	251.959823608766
	188.836327151669	298.664864578349	216.24497587588	201.661941695238
MED4	307.083179338165	344.915370555826	327.480268032814	383.182507425579
	381.253673759781	479.983368253935	212.996456841785	286.282132382462
	605.583144451322	377.225452025984	314.646369385896	492.377642058095
MED6	625.374595058488	630.894382644903	606.38343657878	597.795856268827
	558.934004505074	444.082440002333	985.087150371964	717.025533065694
	673.502723625773	996.240188311002	727.114956464515	904.733257358133
MED7	216.403542903805	217.811099067262	262.196293231028	209.623583937962
	243.283375388645	227.441436540742	286.133496092533	255.305647212135
	208.067404132325	316.590387560909	273.432712475089	282.045333787115
MED8	196.908612360694	200.468804559127	241.867699338253	204.851374931284
	227.209630859635	382.701467158304	307.316241247336	310.174932137546
	254.83131041241	295.367125961621	196.657475905674	298.664864578349
MED9	281.694635436938	294.410833087913	204.1974438819	301.369680426563
	224.361277033882	169.999692055871	209.180298459605	217.646777099512
	183.255119298602	188.910933952136	281.341452463344	203.089661928125
MEF2A	164.548505132213	142.367003292264	155.924471321076	140.747015284372
	136.966690353637	138.076501233454	147.378228560979	137.192570825063
	140.117644705946	179.079061789059	138.640919060725	157.595468761042
MEF2B	154.264142444882	135.904163043783	155.803946849495	157.568150431884
	153.104072845043	144.868337748544	152.179281925254	153.492072037266
	121.255814891176	152.498222035534	157.960172706254	153.008756051525
MEF2C	491.290438575428	600.264940641426	403.043257175264	557.214020485204
	137.71627781928	183.371103136697	96.0426636429757	129.246066890078
	188.685460181066	135.465076459043	154.892452237027	128.798413084891
MEF2D	1072.37500318471	1235.75946952752	1270.76282064793	1352.14737073174
	406.369889501135	430.100415399881	368.134303229682	424.855168311509
	398.354212009426	326.325210657599	470.42403724799	397.861172312706
MEFV	132.71633377967	142.279695592224	145.542888937635	139.423432468886
	129.869363181125	132.955473649746	137.06192448185	131.910285685889
	130.894384800009	134.608734423113	146.122816653035	139.671302796695

MEG3	1178.08490218853	780.734359041347	506.562512021352	501.946140974776
	135.99579763634	185.591700082272	135.291264978088	223.311817085871
	427.872407051254	368.711718874343	165.286724415145	166.285052506316
MEG8	149.239390385906	170.439725847568	143.007237184254	156.16485596016
	156.866867371872	139.687574432387	144.555718186987	155.214638707046
	150.936747236094	129.187574143637	182.984076352185	126.484819755399
MEGF10	149.495077381649	157.162523271165	150.394483608039	
	136.067657949844	151.933078262284	151.622719246408	148.386249316173
	148.118705147238	154.558968826495	160.364644321965	156.942156078314
	149.040720727554			
MEGF11	152.93058803161	150.339554736141	140.947852529815	
	192.113217321485	152.004130711617	157.572446865749	144.450810504499
	135.296271683847	149.714982846365	148.370331097467	137.473779155388
	165.239214141562			
MEGF6	179.421854100287	162.620593985693	166.320461361356	156.774097885381
	124.895023786422	135.63604256516	170.505553609318	162.689415085423
	144.364319564075	155.201655653645	249.763375041547	369.018856220394
MEGF8	152.413389525982	168.223865801948	166.558080305926	183.815810733176
	183.371103136697	148.683761948082	146.652641667543	130.788557333561
	143.756242843438	146.871145679651	170.198508633417	144.608882758506
MEGF9	203.11015591813	188.417078622503	222.243523614518	185.950131245699
	154.083644327775	178.572212478544	177.759729226623	166.741762854246
	174.576132939661	151.794243108455	219.8511043213	146.291932367254
MEI1	144.746134643761	134.78059811237	137.27298184582	143.969566798989
	138.605661097886	137.748443205818	140.929424764561	143.625188247966
	153.22516060649	139.217113811817	148.932696684374	142.776295389006
MEIG1	119.785062256421	135.491412261604	128.521380879209	139.987681290389
	148.072816925413	137.008110557038	131.959998540928	130.434497375903
	141.666394024363	136.692495869097	127.9575507576	133.511698282195
MEIS1	1124.67710585154	1038.93733638848	990.206369590236	1226.10881264804
	259.146673652222	209.5184563244	210.245551279259	209.840035045167
	202.324795686879	246.552713031445	281.278843600876	350.392951395182
MEIS2	522.899203071911	487.993796425035	706.759905439674	483.429488817674
	146.474228901408	143.035245560484	154.843607752473	150.896076207161
	144.107029869771	146.683594365673	194.998142472864	166.622070620588
MEIS3	167.106870400592	168.805630890928	150.829439012542	173.204163917896
	152.520828479026	149.738621325385	147.826950636822	143.899201949317
	146.366013190845	145.739537463907	152.864765895508	173.115418167551
MEIS3P1	526.285114043212	539.471166362469	528.275591281419	
	441.435444003241	337.271784551586	516.755267232127	415.322560616847
	429.992169596618	345.38424761963	295.973370766318	281.659653592151
	439.394914369983			
MELK	154.248226423862	154.713713332354	146.524138043215	146.063554646851
	418.420753332232	381.867665449509	220.312301059818	370.798852361374
	448.95671696823	443.732580517751	179.96623248843	312.845219991659
MEMO1	235.43707989982	240.376851873817	249.884250040189	246.457698183615
	362.742120043509	608.611927946607	390.284689962661	534.920870202582
	314.557323400201	433.189221987242	295.367125961621	391.644649726254
MEN1	143.830319259804	136.901107766796	140.83570584033	139.476234663488
	223.573080955095	154.710000519109	162.254062646631	148.255769084026
	152.91729346961	148.514806562804	171.573342518254	158.302977853133
MEOX1	155.655771857361	178.106013202731	145.619570216377	201.139510041141
	134.751916364581	133.475605284211	131.856313046545	140.197487078987
	158.007926822094	137.53234136613	142.592455241752	131.7646616214

MEOX2	213.510783808898	224.439293045835	202.718428167217	285.63245179313
	148.812015298003	148.44261900795	163.504122327429	143.127795310829
	140.656633546501	154.584367902971	144.781438651649	146.166710487448
MEP1A	124.101111442605	127.011594171986	127.998531115697	130.224324464992
	123.738223146912	124.22833964472	189.799091507686	126.331341103654
	121.476730561812	121.242099666967	135.085039737228	138.334626498686
MEP1B	117.652693591865	119.131613164405	118.825948323992	115.43068422162
	120.799317509529	115.457121859064	123.586359806158	111.020070405368
	112.817015523662	122.385508330707	110.536316697732	118.029258839619
MEPCE	436.222568287601	344.604699562938	392.582612044755	413.983821839274
	636.048536814356	276.138650967632	492.377642058095	392.198487606534
	295.973370766318	286.642323413104	403.208138816247	303.907003535357
MEPE	142.683117062711	144.908551199481	148.350919010575	153.181097279473
	150.063082731931	150.642465826166	152.526785074182	142.243866937888
	165.682617337317	151.744902566627	134.585762409782	149.987571884748
MERTK	219.940167815376	229.511643376643	371.06697207449	208.64349688412
	232.621526025603	363.89527566597	377.462793982812	430.412897698085
	352.665030560239	173.708509414674	272.456310079164	538.369868115137
MESDC1	164.558875058199	158.282899758551	118.797046082278	
	137.128849888863	214.662648581622	158.135321157995	223.154771092064
	147.971492964243	170.818182800759	139.138329217724	223.279017022443
	162.140112952434			
MESDC2	171.552010365305	159.461778054423	159.148717478277	
	180.304585602206	165.267693285882	153.602842380788	174.347451984066
	172.175584707792	159.29430824799	177.19138801548	155.346805606742
	183.406510146725			
MESP1	142.467552395104	141.724442944322	127.382266838772	138.558300898079
	972.902937649492	170.531713392258	153.315309202016	160.449911844008
	128.056668224393	110.050374895171	116.328330266803	127.911258242431
MESP2	133.959208066964	126.295856316628	140.44966014021	144.64136816491
	154.503958858173	144.916193282062	140.336479395866	145.692644807799
	133.745413210496	135.648906382608	135.497033143331	157.565633456909
MEST	119.903068083658	116.90832995093	111.204065131669	127.070677267233
	130.753266976637	135.405742719464	120.538535752185	163.407360509803
	124.300285428221	122.111982327877	128.901707304582	178.661439148013
MESTIT1	142.993401965852	137.109541758085	140.416247564103	
	143.031909545902	122.431337063053	135.886859004208	128.637470206958
	132.725232102483	135.499195435803	139.585373400347	126.728375196449
	136.79732903972			
MET	250.037172478288	301.747788416496	217.715143869654	236.191384383802
	369.434158443561	186.611870261871	500.343476678562	451.496617003797
	346.411586524655	537.510539142248	675.978379566859	433.491835341321
METAP1	1122.92917004037	999.159652508318	1382.12750708801	
	1012.44277312494	743.915675090182	2033.67956299225	1863.96986643676
	2416.49806112207	3403.37530051435	1164.61390835016	2045.24382334506
	1570.39362935859			
METAP2	1612.79779117655	1771.39155164347	1733.96382719909	
	1843.76920134139	1076.62597781124	1200.94425675913	1501.18820017008
	1563.71477584676	1504.15682715484	1373.08023518911	1355.66237447026
	1513.28088592885			
METRNR	181.328458560967	157.313737338264	172.364618542922	177.438968923426
	283.645434184168	131.380387461901	160.096507818256	149.113794439994
	151.356975600962	173.287859527767	128.840466579373	144.78971417658

METRNL 311.449205777595 284.995098167431 239.079352337243
318.297819854586 540.005877322817 293.825372123877 362.252813848151
414.538237455116 446.262895953004 538.156335788156 259.868701878844
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METT10D 246.552713031445 257.44230597145 212.822328466993
260.016906472407 162.347140552869 156.396579029788 139.201122725213
153.592819860747 141.987635042691 151.126252768792 167.018380617832
171.238423077347

METT11D1 252.697160031025 244.101521795539 323.276514394119
280.558463661137 275.39986964837 226.595006724068 254.9636051363
285.102778078056 240.306287921209 255.273375146278 239.503369457867
289.911635155481

METT5D1 245.915473236403 244.797792477941 275.39986964837
238.685014863143 191.795952536469 210.353341004865 211.160781061336
216.381643581705 266.80383076887 250.085444708918 250.481442411876
195.141733146452

METTL1 222.415704486709 229.74418058711 179.137734914428
232.354100565406 465.102234374389 244.18714778846 328.269845211173
585.371892598422 351.585604465402 247.504198063293 259.316557834724
329.068463281182

METTL10 158.505363728431 159.29430824799 173.132747018514
154.615097099186 152.467764730004 152.993555372242 161.817609920327
145.754504160436 145.514859606031 142.376921410427 146.53663019612
158.834483073542

METTL11A 169.590101694098 179.122374556365 179.525651423361
169.713585775118 327.566026396726 181.876635968785 184.557630172634
174.375388013694 254.722836822616 283.527656956105 189.136114953249
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METTL11B 118.45291712775 117.986939058467 120.263659727964
125.296240086615 119.334967856721 138.83304645915 124.93629294955
130.965418847276 127.551486042435 136.116468624715 144.765051967884
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METTL12 123.994188725172 124.907788504503 124.197397333928
121.805145639822 114.226028611171 134.950905279775 122.068058346443
127.539091409962 118.625070307695 116.828333047376 114.161540771427
125.976052547953

METTL13 308.38513924253 347.932135290714 349.910535555712
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METTL14 167.173670781451 168.702991603656 204.862387642573
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197.277310409328

METTL2A 170.028047334267 174.962380276394 160.251996476232
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194.161930642068 178.142393629606 154.239755912437 157.244026506342
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METTL2B 142.290253129837 139.350622585937 127.898533598679
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153.005366371425 126.935731176024 129.946925636595 153.328585916625
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METTL3 328.078808625906 297.228563607097 329.535023880129
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 1060.24125879951
 METTL6 139.197364191101 133.905162024888 152.721146962124
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 184.260835471542 222.820391338687 242.5085895186 261.203388718689
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 MFAP3L 132.533234335153 148.370331097467 134.533551900843
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	129.315412536491	143.776637809106	141.781482381513	151.500282404318
	152.169087619827			
MFAP4	8182.20106181946	7054.92270618408	3744.5666678861	5115.14161559446
	218.433524126584	550.124359517322	231.180528071672	549.460612060753
	1242.61637859159	380.754569467715	201.041792159394	264.273245283343
MFAP5	2601.89405525276	1666.80650105101	1910.08485008041	2303.0998502001
	135.24841020592	161.534421340752	150.244284323504	166.007913607742
	148.973277994329	310.026522549372	156.650388509656	146.787927492706
MFF	475.403662030875	434.61711290583	423.152420192284	519.27448770158
	175.882911801581	300.047728281275	240.07282016658	232.231236745251
	399.476401949891	387.477198908304	395.049127927637	383.802494922918
MFGE8	5382.31371568106	5714.36902486392	4061.24537355697	6384.66090426598
	780.461254794127	884.248568386012	580.645924062301	972.902937649492
	1500.16816750361	2730.50913686613	230.620456579897	921.546033242474
MHAS1	236.855293143293	257.338950719432	174.068974937318	
	263.74335003375	205.852731236069	148.780775862239	138.079494235456
	143.587562550004	127.161975533812	146.084461430546	146.29600238749
	133.56263739203			
MFI2	137.206961927035	132.5130209643	139.488057371254	133.228074579352
	122.685360126599	131.244759170642	131.827899207029	134.76397845723
	135.55203336728	127.150222504237	140.244052740397	135.849839822066
MFN1	173.635827398273	170.223509007961	148.87690497281	170.951009118578
	172.951567541592	170.473956720945	167.454132228122	175.222531098958
	174.284268998257	176.547853494057	177.780479906048	166.289763097913
MFN2	1267.5716872154	1479.69309189156	855.112210714686	1828.66165670455
	695.595965352335	438.817248820137	513.662594875431	495.655170027296
	462.779122987815	492.534183006883	568.555967950896	396.988248940183
MFNG	234.461229199142	229.443064589306	160.811051590991	210.590774758661
	189.160454951382	180.798671424395	183.081450609516	291.883157643902
	418.319283832879	169.095270479344	233.884660128222	162.841318222066
MFRP	112.096627288813	111.549719888905	102.094370876743	111.232274546928
	104.977794653504	107.91011371422	109.228587997052	113.919529047225
	112.208950290962	109.098105822556	136.584199831088	122.631814400575
MFSD1	498.180196203245	520.585319342817	365.650071660806	410.731869154912
	789.752781067888	671.387334588652	1095.04571025381	937.593129242257
	1267.5716872154	733.648333788712	750.494286476465	869.245621105614
MFSD10	1756.88092410303	1942.08859727404	1794.82283439196	
	2032.50052162637	5425.58761099475	2751.75479578587	4743.19967685595
	4159.96851384358	4061.24537355697	4103.06565237121	3258.07532987071
	4562.75659565027			
MFSD11	3581.36347643133	3235.38149926838	3173.14004739767	
	3090.52810501797	364.113665301598	1224.49891389348	915.015154168627
	1136.14069801696	996.999238316991	784.170983714588	1332.11815966955
	1062.749459378			
MFSD2	130.95176570982	140.82351325907	124.915772594451	161.922462797736
	226.020769172424	196.16056297158	162.117224868654	139.452773383624
	148.715065348779	154.876638004094	160.57963709333	148.401698825687
MFSD2B	136.387904287903	120.263659727964	118.636694749194	
	116.86635524597	124.405905157157	117.824694297846	121.689416823766
	115.550587451456	125.668463983985	119.984301761327	124.958287100852
	118.430401197079			
MFSD3	200.045606111354	218.156162474715	216.077955163344	195.384273821324
	1702.68441407727	401.840794789616	543.389747823877	732.877169346979
	722.399669963921	827.157920721418	371.552970811499	845.646455991008

MFSD4	131.613738869093	137.754373055094	137.303701514064	131.479997342133
	136.520811697544	133.478829770103	143.934585983797	133.16973309664
	132.809364188497	126.635105491524	139.191746593825	134.304545258148
MFSD5	245.850813387241	286.541028896473	272.968792195442	237.71636970719
	1003.93455977232	632.278924237678	795.720196538039	650.679096367632
	658.746224115551	548.869880723909	714.494228450456	795.720196538039
MFSD6	363.706789137022	398.892968579918	371.280926727395	323.667189206453
	284.104619768635	721.31849915135	409.380002417794	455.08515350006
	422.338508598153	407.244564912365	617.67819271245	635.536499281829
MFSD6L	133.297361715205	132.54577436954	128.572388808833	
	133.290168428696	169.674931517111	149.435684626505	149.125425566378
	133.957160768065	138.047487233711	132.306569548052	151.617989938924
	168.394330931524			
MFSD7	173.656241217331	159.42746786085	155.542691937539	175.437651670246
	240.915496717526	183.443006525616	159.730925830278	161.359609192977
	164.659092629962	149.574353706911	160.932913244423	169.403422185018
MFSD8	176.008711524598	174.615694779386	188.543051108601	157.944355564411
	176.901042102323	204.057019122032	204.489837323989	207.036293322882
	176.431477850092	191.074428905553	163.824878791966	229.77428612216
MFSD9	175.269675831824	165.638672456873	190.520750756082	181.183277133224
	171.51411661213	198.088834624665	196.598810934837	207.488522933448
	177.825648107126	183.513101761782	180.164353124488	219.129781831192
MGA	208.045210163121	204.219197797869	199.88618355278	217.408824020423
	190.716424123036	204.770742504612	235.019573994855	192.140442881209
	201.337186768645	182.357065848298	212.987082617173	219.8511043213
MGAM	145.43470695949	142.667173697017	133.108094159933	138.572054821151
	144.461999591223	138.218392984717	141.389330839189	135.643341446691
	144.098578955023	145.744039709418	131.615462296871	147.100947801261
MGAT1	996.240188311002	1278.30505902957	560.757496975779	1376.84058291266
	7342.79622458743	1531.54387233661	5811.97916044218	2736.98692493933
	1222.59895569348	1098.20033709043	2635.31067044245	2365.99940149374
MGAT2	199.397633942623	182.109092947203	173.66499836293	174.568253693395
	282.190861594303	194.789918629905	266.101158071711	254.879772480457
	212.836093887552	287.145105895235	254.101184686036	292.60467054075
MGAT3	150.034029031033	157.113536717393	126.783524489964	148.216605879958
	156.095520355029	135.925813154268	125.150706047419	151.839306445341
	228.524222740306	128.729687597908	296.24781576525	211.483693299981
MGAT4A	185.405774238391	163.175801793143	158.188039933865	
	166.622070620588	256.326661031361	179.632562895905	208.611557959861
	200.790119570144	210.64483507528	214.461773810376	191.897449038297
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MKS1	146.276706674761	165.942761337382	152.309460630038	182.969563278473
	191.093283411655	143.861970001207	189.192494970145	150.36160186175
	169.257035030405	156.859539612504	149.772157318769	142.788848338402
MKX	767.377380800066	434.509391836336	623.888568444132	447.909277144896
	135.373824773008	152.612116997575	134.255021727555	155.295464263911
	145.331858938535	167.468390483999	136.739754726714	137.959775678716
MLANA	138.667081004369	148.231928963878	149.565725707356	157.166379887259
	136.341358916638	144.779146672553	134.369532556726	136.253264628863
	145.081468030567	134.41693612969	135.108420614547	131.489715975987
MLC1	135.192181609947	139.184647003326	148.80452641061	150.134337895481
	141.200676699805	139.493025452991	145.426171336045	144.477267427347
	134.477081392474	137.6160344044	137.151210946281	136.269445455239
MLEC	885.104778820041	1107.99131702522	779.922653392712	1769.6386910047
	1386.56788941677	769.34961339184	850.125434374005	1007.7803477458
	1490.02976786379	495.241179224412	1021.81988990874	878.167149313285
MLF1	192.168634727505	167.51207060064	199.01458214661	183.26554404668
	269.853718252574	192.314484368435	200.712182818203	193.930569647995
	183.348764012358	221.359331823286	132.611864316181	144.720594512581
MLF1IP	125.964335876018	162.308297940279	146.770267005869	
	130.839508306116	225.61275910008	312.557093674533	175.28261759639
	250.217137496422	252.249994170536	189.678680702271	191.322056430728
	221.070448906398			
MLF2	586.366632966978	621.825622897512	568.040362658955	815.388288623756
	1279.9555644913	650.494111214312	909.388774224614	1095.04571025381
	935.042067053226	729.729297413233	680.250735532287	868.86246684338
MLH1	441.578261054602	473.73182675469	583.697431061521	459.854279050269
	415.178470246749	509.880640462	457.130051460676	448.715938510132
	587.893636997642	448.371946119074	573.509780150018	530.267835989435
MLH3	146.209104824109	138.778496466408	139.217113811817	134.125038192486
	130.316282003711	130.735223763219	138.558300898079	141.097257687941
	131.757695616207	123.225792525733	149.209348136739	133.67719550997
MLKL	221.297127685676	190.318957029666	177.235586767256	191.128539630621
	174.027190728107	238.270501389189	193.428733288774	226.701637237203
	295.153786338687	298.460273458181	305.451247405518	288.68376542946
MLL	348.241471067257	357.672950588403	442.027630433527	329.535023880129
	200.179796117115	166.674240866931	207.254220247481	195.239829623017
	216.645552082667	135.968346417524	279.790257881254	280.007569817323

MLL2	130.867819112143	137.381470768186	137.897243684023	139.311816781874
	168.261511797218	131.340453291188	129.794293922951	129.763063900493
	128.122197525844	131.427686241226	138.59175751301	133.070896773384
MLL3	165.993897306927	160.518055978242	187.132496910208	143.496669740707
	148.176995739142	190.572712684622	168.398366575579	177.415756020166
	161.874184077257	173.741466458636	167.620915011868	206.164058935215
MLL4	329.926864732606	405.409668978569	366.636754272029	519.829743770022
	691.397238677552	440.579262120451	405.843083758177	434.61711290583
	513.428413503031	315.182134426778	342.403428822464	388.326080754063
MLL5	265.572253407219	264.983729290122	278.005620372937	231.63127072986
	199.058972781223	254.909076658804	229.347135478142	208.125844007298
	207.785320401354	238.685014863143	241.019436415703	281.694635436938
MLLT1	143.401971479167	122.75516501062	143.804903119745	141.927204640355
	144.87013280941	133.455138380277	138.052032298683	136.218750083407
	132.083532534267	140.913943871772	132.371165851333	130.592061896237
MLLT10	431.093544964576	368.0573385048	497.53605530806	
	350.077206368839	211.660148497276	251.704037951295	257.338950719432
	238.654367531982	212.073472189229	237.312766830206	224.439293045835
	313.773476049783			
MLLT11	275.203046536524	315.182134426778	277.180850774168	
	327.207408852474	210.852300463808	354.263934274937	268.724338967108
	235.063474370925	381.867665449509	204.681956301306	240.591548171052
	1280.57297272231			
MLLT3	160.014635964846	141.474583706011	143.219722736891	149.622695843398
	189.419941381565	142.278523641008	166.515199732076	155.086559474139
	163.091280469234	164.917470819096	155.680330654611	140.348718082786
MLLT4	136.328447182666	134.447878635716	134.817665153925	147.143407224469
	138.921608664788	137.805895248174	138.938546468136	139.640918572569
	136.674553275255	142.693337885596	150.241585041178	136.507961715591
MLLT6	1163.13845502757	1183.1601379136	1238.11700377838	1502.3444541735
	893.676600121113	512.467731561858	938.918431240228	998.157643452741
	1174.69701182094	463.298781071364	801.051513639714	612.06231165648
MLN	122.881793230233	133.404671629495	129.694178995061	123.141928612324
	121.888886996534	120.09801164252	126.569482909992	129.45936538019
	130.528198937596	127.486216183602	137.112274459462	135.487310036251
MLNR	122.436106757578	135.554736716321	127.478474451121	116.897299691798
	132.189426012448	131.879982461545	142.365009028839	123.884643288534
	127.849141499408	127.57284871013	141.299677389827	138.667081004369
MLPH	256.897177822238	254.722836822616	346.411586524655	200.518684601283
	849.784051720996	375.189005729903	620.760947818536	202.01798254763
	171.80440912191	513.036729214095	1699.17470788219	483.174262289559
MLST8	309.36704220687	326.176058036757	319.223127076041	403.47026424469
	673.502723625773	255.462706428149	319.966785546419	311.375563161772
	305.906480933354	341.819090221654	294.871848467326	291.616195651001
MLX	182.152956182443	173.964378226631	200.242239130026	189.225893411944
	195.303469330682	225.730739636442	231.915272112361	260.224777636733
	222.709720471134	211.369442150136	191.881157918071	268.264885392368
MLXIP	159.798024189461	164.191906588579	150.117906461237	183.168629351124
	128.306607216705	130.574019477669	138.261506562904	132.149864626575
	132.373302367869	131.688038068545	135.730331297139	145.270140096768
MLXIPL	149.380733719756	138.308965237491	123.007103885415	
	163.778790431064	134.605345732609	139.150209111606	133.490805791504
	162.431674335726	146.038599656417	146.238333981318	134.111348656261
	145.797047170492			

MLYCD	163.36682525399	180.315825600347	244.350562866593	171.97578836712
	217.287912825619	160.322541355391	205.987280015028	166.315369318355
	206.937770272939	147.069488043503	214.933911087009	200.204064462384
MMAA	170.67334244323	156.237282338037	161.713311969291	161.055911120534
	157.530573508003	186.482547532546	212.497773003032	227.050629701762
	191.241000498118	182.310140388705	203.852316712377	209.070372320593
MMAB	173.552535486766	180.850779069931	176.650953513413	200.84691030169
	179.079061789059	166.662801900754	181.898985277176	169.864628707043
	185.661496988658	167.430767074847	171.254015232189	178.222120802125
MMACHC	153.647343267295	168.248982292489	152.397984799517	
	157.643461899964	234.399431238026	191.179662650057	254.936706344174
	308.208276315292	180.265418365803	183.657525723012	214.241635800083
	213.833894542292			
MMADHC	783.991448771818	623.888568444132	1113.05943954513	
	521.30110104669	914.654262296682	1836.22560264874	1122.92917004037
	1347.75629878765	1303.33810980467	1564.8868894162	1383.68977267418
	1592.29734618345			
MMD	675.978379566859	700.601917911532	865.800709006332	858.020739710943
	321.367338145787	408.7151485563	332.464176231219	413.084646927035
	306.43742010208	468.82816089485	163.48462232122	255.638433159437
MMD2	114.056147008769	111.423140302983	107.283814651497	106.746545626069
	110.024815508703	106.876902604214	107.841100741858	108.04922729993
	106.551076380988	105.925737068775	118.366859032979	104.714872508838
MME	131.7646616214	136.19725093985	124.876226351169	122.531675048414
	142.859971805867	131.132508349222	247.08460296705	147.558603709566
	275.972447693982	291.720204789005	137.240806191881	131.806645427543
MMEL1	127.349190705235	134.271916545532	131.486917325752	132.593747375239
	225.142823691625	173.907933001446	169.496129800444	172.916234073981
	160.945886507456	130.370405378213	187.216245895253	256.99019407912
MMGT1	811.144838166905	740.973440818582	959.897744425251	589.409235971915
	508.735412486964	612.758976723556	419.4017188518	434.073729807058
	482.048928546145	589.409235971915	498.641091757363	493.209107049493
MMP1	153.169450192935	156.942156078314	184.530853446688	150.784262878145
	155.608876496443	172.84784588171	348.067061666237	164.890716656336
	366.788087591332	3315.21586182496	236.470206707351	167.416417895159
MMP10	171.449326065013	150.606329295069	161.543072816738	167.55209828062
	178.416969664816	143.165150890885	183.604011732066	198.470718196139
	182.938824846376	1459.31031099055	190.174729017089	167.961390966538
MMP11	200.302384864371	239.871536598083	194.617252921731	273.353254857377
	297.636316709322	239.079352337243	180.599150102184	209.7558663154
	178.984409575632	3430.76532174701	192.399146702036	246.389203940944
MMP12	320.360917595936	147.100947801261	131.123149002831	133.177950880393
	213.301947003462	131.705912986393	265.29629764006	205.08372943071
	515.432065049838	781.461780481171	349.623729591612	191.170105307944
MMP13	164.641508485461	139.125340284813	180.164353124488	171.473538842796
	172.310673499572	162.37762946664	192.168634727505	144.574566623882
	140.701908784225	179.015669199358	133.737573120711	144.842687993057
MMP14	161.510497517852	167.782882015229	134.964619235561	145.261662166215
	251.511405838796	134.606126134531	135.252082574955	128.044165393924
	134.679882781788	140.096717188376	203.456296907031	140.152177370089
MMP15	150.314462939164	177.281197832647	133.849237689264	196.802641002079
	517.42417250172	197.298982267459	130.274288258599	139.378915474473
	198.489278156437	137.835047580854	208.348515119045	206.413554839865

MMP16	139.54738445816	137.681280789305	140.531789506024	138.402890124039
	137.545063966957	135.335107344583	157.672378669483	130.085138325818
	137.11719450122	134.194555223935	133.406312157375	144.436358527414
MMP17	116.773599713111	117.555999801887	128.150801169886	116.316845829267
	126.00304757051	126.841836614341	124.160433356046	118.397482835514
	125.398875527365	123.45581374935	112.776764215618	122.664353374047
MMP19	147.628367263728	149.436448356594	133.984830578284	138.091795130567
	136.993102884269	147.459385142695	134.880138942756	133.773427881651
	137.570343435498	144.193756031386	146.672270660899	140.177708471199
MMP2	216.353502371227	188.242091666446	152.26903721278	168.882806817001
	117.284724854784	137.53234136613	133.020551937677	124.083648029911
	171.051948060796	159.874161198304	165.327972973978	139.140647941752
MMP20	132.109267393571	146.869927141655	138.659387475119	132.719730606922
	147.584176709986	140.029808783762	142.675752131935	145.830916005206
	135.895945142328	149.904691068054	129.147246809319	140.563079852037
MMP21	143.193305421206	134.264584077125	129.801342433836	137.185243517766
	135.161667673191	149.997047695778	136.511669406292	140.493975416335
	131.277646716635	138.116568200293	141.842919268688	129.933228671483
MMP23A	324.177924877233	264.628012152168	276.830814061474	
	305.669636871734	175.251238431716	166.784804508647	167.206513789165
	161.80922869659	185.332215198617	191.814634229865	142.029398672217
	151.635752404534			
MMP23B	817.036222521723	605.583144451322	553.198321853202	
	633.401624753368	226.989201461085	218.672831303767	175.543924200429
	208.321765801227	326.640168906375	308.679189788554	170.401653214867
	167.46432961654			
MMP24	136.841506794489	152.26903721278	139.527577649638	149.933919274985
	140.127379332918	149.143087870963	141.135840314665	150.875392181869
	138.467624450885	137.75060150486	136.960656707275	143.567488854011
MMP25	124.542879928448	133.577939901847	141.311749168934	139.136845089275
	134.759283147919	142.663334893424	138.449057377027	165.703810120915
	164.357373919714	140.368070973566	143.864036545717	139.367493349339
MMP26	154.384766720753	143.313605534609	167.186780161168	150.802312408483
	147.333142209628	163.686535888943	152.088488171996	133.74741832303
	144.757068610657	133.891337645936	142.466067016788	151.64806573742
MMP27	126.378952839132	113.87024833117	116.176068923513	125.034243098087
	119.631847624882	110.465934808915	114.3172128566	113.192313147111
	107.780763250481	113.283359026655	119.01236045062	119.9652990395
MMP28	214.904634494921	217.576547690525	232.621526025603	243.35880641566
	388.966303073519	596.743397794872	256.614964511846	169.844913799159
	213.215996114827	211.300733064951	299.106362530855	376.791876040886
MMP3	689.590642377619	220.999383789474	256.174286655796	372.374101464689
	165.103398617203	177.793860516896	177.039190810529	168.289492873475
	758.517101659762	1627.02882286283	152.563532872898	149.764447995426
MMP7	122.133292722932	147.143407224469	113.947948541258	118.298444816712
	137.119730820553	160.234704406302	568.040362658955	182.786177632757
	994.802763887989	326.570967321756	504.141861790903	202.60339529874
MMP8	102.255408120852	111.975027473284	100.477911152746	108.179513318734
	101.713609383766	114.556542069712	102.932013031511	110.575582352222
	105.25877906031	96.0426636429757	106.522641798274	101.981823814699
MMP9	121.419301042072	130.247700541716	108.131097605872	120.182787241888
	260.278595572575	168.389069732474	243.425632941131	371.369895979832
	483.699436940387	272.277433294605	175.608958881476	216.836094088131

MMPL1	175.638328370133	148.504996616452	149.833346575446	152.534482748598
	166.981212790122	168.205277839471	167.149578610266	163.718595974283
	144.570725886413	161.790909578234	167.751604259111	195.400963839097
MMRN1	377.89330639683	238.509970054862	278.687780705367	227.092319765009
	139.63811945162	136.609461559853	145.36249226764	190.614236149496
	193.609985124825	133.94667806086	141.418737063013	128.2409378561
MMRN2	133.82548013342	142.501655618849	130.829825154842	117.634514818946
	150.667001746475	132.885515958081	206.010481981919	145.679907578808
	128.009286101341	138.261506562904	195.816317534388	145.572363722788
MMS19	812.75075757351	990.206369590236	890.810315261602	1374.92806285803
	634.906566690042	487.358720934063	706.759905439674	460.742037437298
	552.298965378403	725.443026984982	1267.5716872154	890.810315261602
MMS19L	811.912727084669	905.751410113646	990.814111681408	
	1056.43975075255	524.973621024573	516.177596584059	835.284130042504
	553.368945998847	725.621153262924	922.50743596248	748.161769171818
	1111.88018487186			
MN1	447.995213144892	304.937584086529	278.498278821829	259.796092536601
	151.531667383273	156.622993107052	156.698856643638	147.04481509758
	163.521095869383	263.47760086159	161.577683729655	148.751755543817
MNAT1	217.013533525724	243.468673768141	298.209907157762	246.95071325085
	222.20526515049	182.515302191173	302.637859140061	230.332652534446
	228.739556788924	302.696004448559	273.61337724143	257.622317771472
MND1	134.81595608984	147.606311227037	150.891358590974	167.92409473064
	204.057019122032	173.017662861015	165.389652763451	200.688465653117
	211.786963444117	157.733042033549	155.3016514732	187.93380542729
MNDA	161.911468506919	151.305201022012	154.127346849182	175.121069571371
	157.521230460545	159.320692108734	171.487594589922	187.997940126066
	194.312315077985	200.468804559127	159.036647992998	166.795671029174
MNS1	191.284275676256	212.210383398591	194.569325586241	233.103476996669
	190.077302802065	165.4474699807	171.36717256867	189.0608798771
	242.070630946726	170.423881865022	161.250520154112	181.558764396201
MNT	511.113083958771	686.198351821711	487.358720934063	823.297606185721
	486.653672099699	622.142195892701	281.740495452842	387.135002880995
	325.082620845425	366.473258467746	689.271009631393	442.698000781597
MNX1	148.919726992353	170.79303550487	159.133905701536	137.194467539969
	184.655641182839	218.470365730283	198.815448428294	254.668502187945
	168.982086590306	179.460777888284	175.395900648455	154.104321553472
MOAP1	604.737834405874	609.939982655706	884.747476952289	593.821622986351
	288.770330002807	273.864293250688	366.857139377277	339.598452080917
	262.171775165261	251.915179734134	461.722481634933	390.573484082597
MOBK1B	174.510523238374	158.74180418577	192.340135076104	
	187.881334544018	386.598037190663	276.434192872962	306.716682293251
	269.892633574243	246.95071325085	262.139211406599	235.905788497166
	255.992494620859			
MOBK1A	215.532132200821	261.89195025254	212.987082617173	
	247.622351589081	213.754156680604	212.915949933033	215.931781291835
	206.149539851803	210.973303650385	187.389039221193	304.013547190343
	240.410292351169			
MOBK1B	200.456087759904	188.973595445056	219.687151891777	
	165.870621884073	991.611982265221	387.617166711971	549.569374872629
	463.187551361986	396.526590512521	492.930906036297	255.273375146278
	417.865461351681			
MOBK1A	254.287838845201	266.71318061066	259.935831886014	
	419.593558001947	220.60173086462	195.10410545445	213.847316974717

	218.2454853526	217.24573005272	316.364342983155	188.864388750448
	181.453575300661			
MOBKL2B	149.049931380459	144.608882758506	123.794432024417	
	121.006569103388	126.816402300701	118.486195373059	118.47752077032
	141.727639388452	116.91470505098	153.966815534288	178.717719615544
	118.708644971927			
MOBKL2C	288.968909550533	276.224613560582	249.925640256322	
	254.909076658804	215.744552410805	251.833571288967	417.528353577952
	280.398987330256	245.900840732668	215.744552410805	381.484062427466
	375.189005729903			
MOBKL3	390.194764817385	395.645016679312	436.731545612902	
	372.757091748175	301.304268871606	803.133619199479	383.503040287678
	422.688531130043	307.665281863258	529.854965483609	304.152390210727
	493.492348317616			
MOBP	126.542112891953	122.038534506506	126.308622415913	124.818436949131
	126.924014801186	120.039031290299	119.704436785439	122.578170988039
	132.236355533277	123.431969470387	130.4631522533	128.318545300038
MOCOS	142.851432926979	156.130224537288	114.223991452083	130.738915341653
	332.343558229873	281.44159425243	353.50447714719	515.729905361375
	291.167223094542	622.834462068316	415.749051861123	531.217306770605
MOCS1	270.12941437975	289.257002046658	281.554559571948	322.099431638246
	479.395948662331	285.131244588624	281.49247863022	210.590774758661
	232.879578820053	223.703371558666	348.171901445232	196.657475905674
MOCS2	157.322594990954	149.264997927508	230.893665210918	141.253030949701
	130.018928906449	139.593950393555	170.430478598594	197.795275907042
	163.748692741999	174.587558727209	182.763057221385	171.338371572269
MOCS3	122.924017262559	114.721282552636	114.265920150451	118.480344364831
	123.478896502015	124.697283474333	144.524701422705	127.874934513708
	118.597739444445	115.821231468312	123.857527555048	138.147658465394
MOG	140.882766779119	144.498245098592	148.288798428149	139.119638136874
	153.582185523361	130.209752198964	153.582185523361	142.19015013243
	142.317575246991	153.121693371757	153.675939908241	172.641322197031
MOGAT1	120.238706364491	118.167740643871	121.080413308265	
	122.753419925997	120.922042875444	121.613684281664	124.918089223417
	118.924317138158	120.511896155396	121.603608840998	128.23432652395
	107.344825308293			
MOGAT2	143.070170783764	147.983937675946	142.907969322845	
	147.891442774921	143.325710305008	135.906115546805	152.980843102933
	150.927628184034	141.895211025017	171.042491047256	168.674809329231
	183.348764012358			
MOGAT3	171.595724119779	144.121427216077	169.391557085902	
	167.42476096854	161.73079180403	159.926719599391	161.618479762188
	169.184111483933	161.079169854907	154.8975607055	143.5709409749
	166.521472376759			
MOGS	170.910998705968	195.185025611945	135.2979041294	183.633719048831
	637.892677173103	287.703569453502	275.343591424586	194.60309399944
	173.115418167551	147.303997146992	329.722135361491	248.010317392179
MON1A	189.74261433647	165.530397739051	177.592497020798	179.286187825363
	210.199788806189	179.203783335674	192.022864170934	173.635827398273
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MON1B	179.674744176904	190.520750756082	154.402315635227	179.321622114583
	344.247544510881	185.447093292348	232.699786290509	166.767004180603
	189.362958041175	208.955110569558	292.893332413185	206.275885047321

MON2	410.533157400023	379.102958448288	353.621264641814	294.410833087913
	373.290426793366	452.24100098898	484.903322308422	565.509446660206
	461.482735533799	456.298408568636	477.160464512705	487.07860019179
MORC1	134.9404536551	154.728941096647	172.641322197031	150.156865995098
	139.530196462344	128.372225487481	145.077517845584	142.041992878641
	152.112177721714	152.504620068655	149.829363505519	155.794309652357
MORC2	268.370347292603	292.911761762431	241.648044508699	316.895545640437
	327.251620296271	267.285998701386	312.557093674533	370.227329649269
	271.568797887976	188.277563426829	235.133284525241	221.664431984861
MORC3	160.997179739138	160.567934923347	171.62327142765	117.900892627473
	125.493004972076	243.861834405092	195.66091457697	206.127493726541
	201.702688815038	213.652091843896	173.176900454904	162.599466021255
MORC4	197.191648960563	172.980441569522	157.779441363536	158.48793705795
	206.413554839865	163.769959129611	149.524040913256	164.615113709166
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	508.449904285771	1641.70484603137	2026.85580212422	1963.23068846837
	1267.5716872154	2083.02482378721	1603.87451959083	1685.33737186733
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	208.125844007298	197.146035305296	223.81987303579	207.440700355457
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MORN1	116.011005504201	127.625252349231	116.155949676272	120.626155234319
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	159.549936351002	133.627389970495	132.865704994046	131.744454088995
	132.141918502025	125.589744938813	134.580526467375	133.897397228615
MORN4	140.318155161909	161.8627732644	134.921230478748	142.466067016788
	132.8615886934	124.106971897779	137.82918941689	127.712645268019
	147.505345299689	157.13859713415	171.287186905764	146.639556437847
MORN5	157.306022722324	157.221008210698	152.61583482402	199.837938317725
	119.161972571516	114.785989868306	120.727504500018	116.382348831504
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MOSC1	278.598913464804	251.062649517773	364.527677995774	282.719121652073
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MT2A	1076.09385014053	2390.41825815872	1151.30600388403	986.004777675332
	308.517561840596	1901.97972168836	293.317880637519	942.41077071058
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MT3	140.873210629865	142.709768829207	127.344210958898	127.255966406144
	125.555029794845	123.964042357475	127.152744243038	117.048846466839
	132.425596223397	136.519697160267	131.460388562433	150.529257416176
MT4	132.539585717666	138.405215507471	128.363331337379	136.653140842194
	115.235444833856	130.185134787768	137.449776383224	132.390330703084
	146.013430937168	141.70123350351	127.333963230749	131.72852748835
MTA1	748.161769171818	827.157920721418	674.742955681908	1096.61874892572
	953.099915501575	334.199307788576	481.933386283351	500.643499051523
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MTA2	415.113340335205	413.330906392915	401.359711029934	430.649188209901
	922.877217016704	808.55123510297	642.484527246259	585.234286698678
	519.564563632951	444.082440002333	811.912727084669	726.000622725287
MTA3	484.230510636533	454.984562256248	480.101253056873	495.241179224412
	487.901310664037	397.861172312706	344.070947256963	422.434778100827
	379.546197364027	562.232754247201	405.032674307193	526.726224327409
MTAP	538.647888236878	585.075322115635	741.433093896472	686.198351821711
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MTBP	118.360186663758	126.288011849541	123.140027043775	112.684334910243
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	153.010339525816	137.823152565933	132.148166773943	184.25384366282
MTCH1	4166.43837922103	3765.25491426198	3869.12225821096	4711.21389812942
	6810.50193989514	3706.41283595794	3528.62443098065	2792.13364570755
	3545.8833678963	2910.00269086567	3798.89743803968	3560.23794634993
MTCH2	200.810204162831	195.256498208339	186.939168482155	239.363511706064
	172.175584707792	225.387674139093	206.227392581929	203.791916347213
	184.111756696658	194.941454173896	337.22646304739	184.813094907887

MTCP1	692.945420109927	608.959089074987	640.568342662067	649.438995824208
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	323.086368767924	503.967725251906	624.106546150735	514.213675499369
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	1033.03719406038	1056.43975075255	843.075879568455	830.455793617181
	943.23069404564	843.545962045705	855.112210714686	894.46029531926
MTE	232.667968049771	315.513423195489	299.234482744038	307.480644393018
	160.67285689491	180.456659320226	122.644105247178	161.34427428845
	209.93789387724	1488.37146754184	159.749576166342	159.942971344216
MTERF	195.946096353894	191.740596601895	163.93199635496	188.847480174391
	187.796440205485	182.698275130489	216.731618532814	180.952017616136
	185.30916081621	168.73918684069	194.240372898704	191.725728813959
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	288.505502880424	467.681480781925	528.650794915616	494.747087458483
	644.868034665476	622.348802511009	427.390091157726	389.800620731411
	407.957436380989			
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	131.681566829159	137.627338682823	122.362585067453	124.693253194681
	117.969576809288	110.050374895171	120.971313945446	140.408989128575
	129.6505724783			
MTERFD3	140.283106734666	151.911494020123	137.499290547619	
	129.338551879984	148.641780441227	129.067538010904	146.798444724408
	141.860850603561	134.683553037185	132.100026388604	146.108551647446
	126.619475852751			
MTF1	313.480307434343	380.053166305637	294.808980631295	321.84712975195
	329.068463281182	310.718449468465	343.488356185437	306.387898121409
	321.696082249696	285.507315916663	276.351810999317	261.469732730752
MTF2	532.950400370668	697.581541438891	409.883222213537	540.078145038497
	564.948126039762	914.654262296682	629.197022551069	920.342429282889
	780.461254794127	301.695991929957	744.523059417351	878.986106116952
MTFMT	183.531156021887	178.096998157452	197.815264620906	169.649251828199
	205.381840116054	213.324226314713	236.651601701157	193.832033192375
	191.112009690591	190.031339775209	227.209630859635	234.399431238026
MTFR1	252.655315526015	233.07015384759	286.230656780335	229.373686092654
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	518.17401959981	264.905947922753	326.246702537465	247.373571011712
MTG1	131.868557613642	136.428826558493	126.256716138724	118.430401197079
	180.986305037222	138.675023495021	151.528377719344	166.335294339013
	175.476184387338	139.687574432387	166.20327698517	161.490941000872
MTHFD1	171.844483419604	168.958694643382	185.717123241832	
	174.767697866801	248.229468372363	165.337956130606	179.25743545231
	204.237952297239	186.778334749551	232.556667737827	260.098788125373
	177.151218006672			
MTHFD1L	174.820064644203	186.6902304653	167.769114519774	
	191.692830869809	425.229044880287	256.127197303751	306.550948766362
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MTHFD2	311.481739745423	239.503369457867	248.613373429151	
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	179.211502448703	175.442400672352	205.742386129597	171.345989796519
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	275.013838208239	287.334035234496	359.363523948825	261.89195025254
	335.239364345057	378.24336892367	335.533053221675	359.162549472301
MTHFSD	145.983627592197	152.725025539491	145.86855878099	
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MTIF2	307.81941988503	331.062744782933	405.409668978569	306.43742010208
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MTIF3	1047.78978081493	879.301932542031	1227.94401191112	999.159652508318
	489.403061697031	838.93563319979	882.429823267754	822.545007054668
	1312.75601392984	906.359365544713	1180.7055699511	1488.37146754184
MTL5	124.717079082023	126.802963197337	127.422129210789	123.038646914863
	147.011838288594	127.453866279181	139.046174587432	138.685330935707
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MTM	138.402890124039	153.13384838492	137.773960847088	130.074786642758
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MTM1	184.021010234322	154.487546030444	171.376976179465	150.891358590974
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	178.445384902129	196.955723006838	200.810204162831	183.604011732066
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	174.127444395862	166.173429365582	181.277683429417	156.105736111274
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MTMR10	585.721610434501	532.235193634196	660.096727566678	
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MTMR11	601.018867455333	518.760142491104	557.702374840532	
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MTMR12	190.031339775209	174.161146689117	200.890547965585	
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	177.567833691547	153.171822092714	179.730694272916	152.791390145148
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MTMR15	298.165097953983	262.756237406794	382.233826557803	
	326.908959531021	168.443386067427	219.49354518392	310.426513884979
	235.133284525241	240.511797905018	229.881164774875	234.789040617681
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MTMR2	217.607230767028	214.52087460757	266.286483421453	264.054997398621
	198.257497903131	209.130260450131	206.042395282286	187.132496910208
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MTMR3	323.391456630794	313.412131722189	290.288001750744	339.448524400708
	287.558897878375	258.036064876416	249.171307797736	240.253944604431
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MTMR4	455.665927568395	530.267835989435	584.433155497378	480.22496056277
	587.388038484307	803.60413590137	774.180202250076	719.13080264227
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MTMR6	615.662993833692	487.07860019179	627.066031322234	572.262848718437
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MTMR7	140.938442055097	149.37190049932	130.920010795017	135.102827224896
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MTMR8	114.730641277464	120.626155234319	120.839256811295	125.418782388128
	126.274585491044	127.177422395113	126.529763042574	118.597739444445
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MTMR9	522.77407098992	530.122419830951	554.282040414368	549.359675306309
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MTO1	240.511797905018	218.350166753833	277.459328083162	213.652091843896
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	140.174087049513	139.720343780228	163.463191619941	150.134337895481
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	1355.07170485397	1875.21979956596	1694.24232555141	2139.42448145954
	1687.06111969368	1999.10320742823	928.672013047007	2532.82545752082
MTR	498.965895763801	390.897464546943	420.361583975644	448.106077184152
	254.552034511333	332.749676505218	306.946103334814	328.826483579278
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	136.144068118165	192.273528391588	143.884263862698	204.695311233073
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MTSS1	267.67093646012	306.550948766362	256.237185590901	294.280238648737
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	741.875751347917	1504.15682715484	694.644744547412	319.812293134357

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	137.383211680459	175.437651670246	146.537204621419	176.497706091676
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MTUS1	174.515815532892	164.836381332774	166.311421907434	148.347642424885
	132.393669306489	156.187809481625	194.388383297922	159.913028912492
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MTUS2	114.27112025541	114.860437706855	106.491867793742	107.863971340407
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MTX1	222.268494113686	242.996248524203	188.45479937455	267.285998701386
	509.292779821787	300.53017771156	382.327656839936	385.522443482
	293.600165830839	304.679197422439	264.805236346895	361.969355316032
MTX2	442.334886941795	415.322560616847	495.769802520637	431.546135503733
	475.213525346293	767.662367310672	894.100792722707	706.759905439674
	742.751664201272	841.285351463894	629.381791489871	1030.97051104597
MTX3	379.387095129725	338.46332239699	440.657747083721	369.646624431062
	190.309453030884	264.273245283343	385.135014083686	258.915802108562
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MUC1	274.564508105177	771.512332113075	285.882780066861	382.485769373364
	2952.67114077688	293.600165830839	529.700356666006	536.067857235731
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	146.428534132236	146.10417547509	153.426409060413	145.912712700067
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MUC13	145.992883153161	133.733674016447	139.244051199144	139.513752499004
	137.662135592983	148.986058473609	156.973511952828	132.5130209643
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MUC15	133.854760285591	155.71830087869	158.933097712363	147.590189238316
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	145.323212897142	145.308548379215	144.049503774298	143.870849001074
MUC16	149.76931674417	155.542691937539	157.986640251147	162.834961996238
	161.195562296834	156.037150880384	176.617812881115	145.783320434143
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MUC17	112.693431140524	123.728481007459	119.802832736435	125.350567304651
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	159.177303894223	128.438401976279	146.64835267642	143.427721577372
	146.261164125255	144.112401069818	153.664503112778	190.444387031552
MUC20	160.50439457257	199.980312703646	138.078214837785	138.383183017683
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MYH13	141.70844587896	134.102929804129	140.652086055776	125.920663904983
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MYH8	108.530158480237	106.36673326724	111.66210002202	108.970432124412
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	153.448882783807	145.656767712617	142.964043764953	148.644800418517
MYL3	125.181327386534	139.136845089275	132.780055030907	127.829001155781
	131.658321123374	139.446914318877	147.425856984368	137.381470768186
	145.025703051661	144.068734533254	122.095978653755	149.400244837133
MYL4	137.944260488223	139.268052431476	131.001996509052	130.545285774056
	139.913180140881	130.247700541716	140.194414869595	134.405155876727
	128.456901308889	136.425263391752	136.901107766796	131.540436531741
MYL5	240.591548171052	224.167511918105	228.270158363878	250.217137496422
	249.680729921602	215.81995779019	392.198487606534	266.534316786801
	267.422232051733	204.183472655276	209.785886171295	290.420307322101
MYL6	26719.5528617739	28095.1627766565	25808.3502428915	30573.5859783923
	11741.7473778842	12818.0509395717	12109.3049135906	13276.1713779481
	14417.2696849334	14544.3732040823	13013.8166277495	12577.0915543468
MYL6B	974.007008568051	959.532977061027	1052.553421812	887.471553448641
	1240.4863200811	585.933822585718	1114.85422895959	599.735180191091
	873.256632365737	1030.56836625083	397.2528907311	1406.73270115373
MYL7	122.955724972547	128.905042692431	129.916677638819	116.998277297063
	127.756214708077	133.661553334004	124.904518221898	117.623103460369
	125.208803405105	123.170639180926	150.35767254363	117.417112053842

MYL9	8617.2437024568	9219.38828280399	9820.93899217345	14454.6736124756
	214.229228850802	219.151144724168	209.112959748917	195.16856673253
	240.561105692347	251.161789722751	172.544504923991	180.610891208146
MYLC2PL	143.376817049362	145.967685593635	126.17342715006	
	159.942971344216	140.089210795507	118.75071213401	150.144977373708
	133.389930962407	132.885515958081	139.125340284813	140.370626016794
	141.642547489983			
MYLIP	1595.22997714906	1417.76295714364	2620.17683549005	819.151876775691
	1350.87073284396	846.425467119342	3262.24877138481	1690.96371604294
	2300.9407349072	411.878556907186	2050.34883263932	2004.19532096239
MYLK	4299.06288109563	3917.05893989806	4491.96934862425	5281.353685715
	160.415807880532	179.358460170348	144.175551691291	179.297628357211
	199.714647839712	212.836093887552	160.608674893418	163.54669668396
MYLK2	130.411849432351	134.648780131578	128.262195551255	128.99859423584
	112.993452506946	140.286870147975	124.42974326791	129.114161128113
	125.98519427755	126.629012619208	142.879705723262	128.134246199718
MYLK3	109.398997827329	110.518806964366	112.590379042108	105.925737068775
	114.561836290349	120.118873350459	122.396214045451	110.636713168363
	112.054379249781	111.366283149236	120.691810909148	120.767950825369
MYLK4	146.582858169664	236.251507822415	145.877943006533	153.328585916625
	127.50624009248	158.7912155022	142.62707251786	176.75095377028
	186.515784641119	133.737573120711	155.23152084421	154.21623304309
MYLPF	107.431455226979	108.333135424315	104.826135297161	110.068122112671
	104.321352818065	105.712302595131	104.934718065476	108.861243071977
	107.531907287727	108.021898335735	120.984641102879	103.168665937677
MYNN	208.321765801227	204.877041314502	202.927700504034	181.681929801968
	214.434355263652	252.015257713669	246.112720011613	257.372740535895
	273.806452412737	194.161930642068	231.202047619476	211.22652563815
MYO10	236.548439331855	269.006221210929	169.113439729353	256.093363520707
	325.80154888448	319.283603277754	330.641230715217	321.177982468322
	358.780920910909	403.292651623365	322.028360309592	245.042781391047
MYO15A	144.281217246178	144.792035839249	149.879951192667	
	138.820797333519	141.469818222503	132.446406243531	123.474836673474
	151.598423878653	141.568970008164	140.955018249974	144.744603095605
	147.2233876988			
MYO15B	113.61408868553	145.530904040477	127.224081416987	
	131.102996816222	132.521681289019	113.58962177275	126.103561089901
	147.313494489487	125.477093550338	127.786141874218	118.966992191892
	135.16316100494			
MYO16	116.433239116749	119.459625817735	126.235567899449	123.577138762427
	127.291712212051	124.775529469869	112.605287278882	124.616629956864
	123.952494134263	115.944280729914	150.038722708606	124.042153387391
MYO18A	209.913460781088	251.61451602376	188.0434100445	
	281.846246549202	290.541184606565	169.881866987359	171.528350399075
	187.112176929485	185.843639043466	224.851680313689	190.96184674871
	177.039190810529			
MYO18B	105.193775204124	109.613208767992	109.038182799871	
	107.170981307304	111.11656427738	114.217867810848	112.14768481333
	114.65036208773	116.806720503431	113.840813583258	112.832122823829
	103.240215392215			
MYO19	133.495243957927	128.952986088886	129.547309629132	133.509538648848
	158.545435407585	187.296479395462	141.434699050015	164.491207767654
	137.128849888863	145.919359461744	164.525784478026	155.201655653645

MYO1A	121.350491314441	131.119810851017	117.652693591865	129.822926691091
	151.032389358279	119.83679981791	120.257886394616	126.875483714734
	118.510960607141	121.267153348313	134.344021502031	124.359615295938
MYO1B	254.722836822616	328.200548902445	172.430211711547	284.574888587832
	199.681103910705	379.546197364027	313.480307434343	316.125364442611
	278.737944234055	1068.63350031223	287.374706071354	215.866644799363
MYO1C	390.284689962661	403.582461109859	342.315456386729	570.130804179186
	303.483515328621	212.710910778949	163.059196519365	191.507657960386
	187.016569445646	251.062649517773	290.914381066573	243.283375388645
MYO1D	283.952604729032	369.275635424092	254.517135747445	388.710465457313
	342.147414141627	180.164353124488	289.859695541999	373.860920943049
	219.2695037071	589.953707188378	558.440840319738	258.384059994446
MYO1E	158.8054811093	153.801971958265	188.231614694297	184.462286724102
	182.515302191173	137.773185451062	187.700723296295	154.066939372379
	192.69687837782	211.679799388351	127.233439204926	167.811412309356
MYO1F	185.140211988926	179.400220328552	158.23562423217	153.891667472876
	184.709768457405	173.97085982677	162.900556089071	172.387657419201
	167.46432961654	171.561940747015	137.330207626732	176.440625367948
MYO1G	191.170105307944	168.238615437246	140.622130978368	159.390531348676
	222.243523614518	145.7202993771	182.644319628554	187.336349390012
	277.359422005775	201.139510041141	152.933230159216	169.043206258073
MYO1H	129.3513576591	154.675189522146	134.797624902585	142.379120254855
	129.449242018727	135.391788614828	152.72717701452	148.380555606786
	140.345652629553	143.88649412841	134.011746666371	126.324771800638
MYO3A	132.529247880813	144.585120811896	126.877293296185	139.720343780228
	147.086734464001	132.608622131443	144.237691418911	126.601395870533
	121.917596225576	127.685469299406	136.942583515174	135.82038791723
MYO3B	498.334266735594	434.792010353541	471.069295685718	422.23268864343
	156.368487784719	409.592855687405	228.001046173405	323.788197265954
	256.326661031361	271.113617350982	319.352940751688	246.88857694249
MYO5A	175.010849510711	175.810411923013	163.736324784234	179.55905250703
	188.444498848767	130.231160879338	163.074919710259	169.003310163058
	179.821008257902	305.542978609337	173.624709850889	140.730085305185
MYO5B	153.231965895778	148.278828579424	145.368059425439	139.416388461892
	162.743192424569	220.312301059818	206.098534554876	241.039766283972
	284.798325549665	197.848577663238	187.673748059596	204.681956301306
MYO5C	218.529160053398	213.710058427654	187.069074575776	175.139231359014
	435.332573825425	289.667302610069	320.305852961452	316.623219008156
	514.922742487521	199.87003105816	196.16056297158	251.993821914623
MYO6	161.348562186667	166.582931148846	196.16056297158	152.346098251128
	299.33156125224	371.127480221666	320.877897822963	354.531898366438
	329.779210536849	372.475112554793	257.643855420381	327.207408852474
MYO7A	159.806221777332	147.04481509758	148.269123639781	158.886786960196
	147.359279533039	141.791001213681	143.801139839773	164.753886197136
	158.06129717954	183.82450756022	153.711354087243	155.820194280153
MYO7B	128.39171386085	125.470172259885	130.977864137459	136.48748813417
	127.271423859953	137.524968609776	129.677874035481	126.728375196449
	139.767216030715	129.715948793051	127.959474148217	141.943910304145
MYO9A	740.800822095116	769.586135629964	789.401526545277	730.988069115919
	173.979001863717	350.077206368839	353.912654262209	232.444867422559
	253.049869714368	431.182384100794	407.589300080181	264.604297630839
MYO9B	477.489368828457	519.112018353676	429.922530506572	689.271009631393
	486.778046640624	382.902151239988	344.737964092526	361.687156919012
	365.97903110365	301.798676825176	393.707031354025	338.129250886594

MYOC	712.94845413251	388.326080754063	1141.13648305827	376.124744806171
	127.91637627901	129.501028506432	118.122186617611	123.364999283696
	140.457727109762	154.528396813382	140.254665008195	132.273354705213
MYOCD	187.30908753142	163.053121879323	210.852300463808	163.81485578613
	149.400244837133	137.923852688695	153.19516365535	150.000851192531
	141.890803125137	130.763957515652	141.468076901305	132.220398477217
MYOD1	146.065491816894	151.548865569913	166.157713072213	164.377227860031
	127.000175858468	142.678267012725	134.459497002613	144.386561289985
	151.354187593773	147.815673580657	132.210100574787	164.601022396674
MYOF	1146.3535752748	950.144166422001	1241.59946353857	944.92617668298
	751.896334334052	630.176145684641	1387.90327883679	708.268962600305
	1279.15873231449	615.485984065221	1114.85422895959	795.464850398761
MYOG	159.588575526536	162.586012723045	174.027190728107	160.469645948225
	171.775741648309	173.726420791056	182.42088387266	163.336324451735
	159.524235332529	162.033909093358	158.232100962615	175.476184387338
MYOHD1	118.021169080914	116.664031217378	122.763138007612	
	119.984301761327	113.031636180748	128.425838805072	125.995374488153
	118.215641556163	130.433405111592	119.725487374119	151.554352209634
	124.05019986924			
MYOM1	3012.49794349837	3510.24464112094	2568.95060767776	6851.54963413886
	178.780662099615	158.322477506517	192.353768499582	189.971144220643
	196.189101941489	154.611011734772	137.374784875444	160.240052678401
MYOM2	247.845708587624	328.431289733169	311.806908624308	415.82312615045
	147.488635834397	167.893596681867	147.696506705909	143.271346378958
	187.796440205485	154.886628987246	159.070355781276	160.811051590991
MYOM3	119.622243247836	128.812729239283	107.622342073167	123.591078216224
	112.684334910243	118.206034087145	100.325215581101	125.181327386534
	119.373287155621	149.207481665265	162.599466021255	121.553107861517
MYOT	352.121800955822	332.543652462234	309.798246248863	255.374689750672
	134.835962366555	137.672798701643	122.629146433216	118.220555783444
	124.391225837909	115.231121959397	134.845202154446	119.159078990339
MYOZ1	147.774588146924	158.809865241567	143.849399031223	165.430811083128
	153.4392054301	146.421195733989	127.982696242304	127.284885819903
	146.706846930708	147.389892239448	151.358775426916	139.473459411633
MYOZ2	153.744962185987	154.366071635971	157.955606242401	163.753434774656
	136.467401249286	159.399804351771	151.214631373344	140.701132362458
	149.100294463597	158.353171576491	146.395248696835	157.797222258336
MYOZ3	262.60377731258	278.168897504985	182.357065848298	231.239126548656
	136.623658204558	146.533374238616	146.812248482145	139.980504765791
	132.675172817752	137.652358744527	134.748177388398	138.461113585594
MYPN	145.372579207362	135.25734629146	151.178586065066	156.822477235844
	164.231281729415	160.014635964846	148.242794464181	153.705394500855
	153.538565948453	137.331864485838	125.350567304651	151.428283279424
MYPOP	703.29965727829	832.335328912437	876.288248962843	976.050097371579
	1762.09874961415	780.734359041347	964.473774310687	902.394410348792
	1076.09385014053	685.080426814888	819.151876775691	726.346459754217
MYRIP	156.020996568814	149.366554238043	138.717541782317	145.576880854443
	160.209949749785	155.592219571564	150.0084730766	144.585120811896
	144.979749941424	145.27890423835	140.393624985807	146.035731780312
MYSM1	149.25705328406	132.99989565368	135.175806654971	158.902676384853
	139.595986615703	151.397068235685	131.655316312379	134.949572471421
	135.273184185121	142.910616700526	125.493004972076	148.757112903673

MYST1	338.223462327622	334.709049890042	325.525450750788	413.172954892025
	261.988345506548	190.174729017089	269.495247190598	205.612579504495
	251.588748783592	240.792557915987	218.334273320319	218.350166753833
MYST2	211.720536220806	208.291714758548	185.113098620798	184.187847236508
	175.148318011395	164.981665344298	179.54034642468	163.014903707857
	170.825161347825	158.895584550655	191.405362404386	169.681582570965
MYST3	1145.35733270036	1350.87073284396	791.840531191783	1127.89414462606
	654.305724263754	1239.13016938378	593.320132696649	678.937151822411
	606.851072672402	401.359711029934	140.820807603291	578.811908030805
MYST4	203.586310608403	183.130891975122	200.934618257908	208.291714758548
	130.89594032962	129.85040048805	158.147502554814	146.637799077812
	138.737332306848	124.740700441589	161.585555680663	144.141837615086
MYT1	147.029988235786	147.314687795555	134.494167613686	144.884801859505
	128.152956417755	531.217306770605	179.211502448703	134.051756243089
	170.024833610695	132.926799887017	318.06081614151	670.856008549143
MYT1L	132.446406243531	125.063596569451	130.852932147831	126.531502877517
	134.650161382949	128.720517906732	135.613240463445	121.539958110688
	127.911258242431	119.631847624882	125.124011798043	127.675206134992
MZF1	356.699466789374	372.475112554793	443.005424069211	366.073387075385
	424.912426797488	451.985108262982	606.162976359615	480.923468806193
	695.321886304133	322.443089373063	458.782864873657	458.607367472574
N-PAC	659.900771633223	588.678767007017	705.737228226014	740.973440818582
	348.640185950469	318.561557474749	354.705553237406	570.533103778482
	532.950400370668	527.498114662967	426.769986378276	442.590987372759
N4BP1	226.203994206714	212.147155923729	237.473927775823	241.527811817146
	239.419200107721	262.832376198119	245.489266602897	239.572670410818
	278.168897504985	202.869364962231	290.688850193983	233.884660128222
N4BP2	2392.93562797606	2233.00694575483	2146.4265920569	1885.93146154931
	412.863887464545	2222.16226526877	1059.80292026589	1493.90578573732
	1319.3522488218	1031.38207659547	2337.64145466514	1134.64039256323
N4BP2L1	182.300628120658	190.66473033826	224.118739978257	
	163.36682525399	125.296240086615	154.604363252526	210.942865876533
	163.37518739397	176.810979494826	147.73141408795	172.926288703434
	193.945494721138			
N4BP2L2	235.997227173296	225.820503820866	290.241064926886	
	248.360540656183	144.986655090517	141.215542377796	163.21153580549
	161.968835903764	179.451637129672	180.599150102184	184.577511730401
	160.035282578603			
N4BP3	123.603972078897	109.740801301993	128.837901660985	116.647291878845
	108.036254606246	110.865668451601	118.45291712775	111.908965758799
	116.635455849571	112.14768481333	120.201521341263	109.454483612299
N6AMT1	196.922837906592	176.019082929386	208.64349688412	
	183.32467147543	149.576563410584	144.364319564075	213.990575186237
	178.939268046323	229.511643376643	169.447827110558	199.101099226668
	187.205674045893			
N6AMT2	412.801213309591	364.331860640225	358.355621069787	
	427.766660764042	339.379250332987	498.334266735594	393.914413372142
	283.527656956105	393.579552385074	325.525450750788	405.64711132293
	388.710465457313			
NAAA	228.184535093641	185.41739522833	220.169099923628	157.454558821261
	188.093450717857	190.371287639453	169.077657790409	213.7326050342
	243.893774595317	218.470365730283	183.493455947795	200.633009710701
NAALAD2	228.243668453958	216.615694348945	199.516043142784	
	240.814860403562	159.253029632045	141.935435502163	147.045944019838

	155.438218501542	144.798664281991	159.337816095012	140.418010366997
	140.652086055776			
NAALADL1	325.80154888448	268.832884350157	218.058543664561	
	282.652193666078	147.740657356905	139.963969716386	144.102872001089
	150.680628549529	157.982146236108	155.371772547395	133.975526667571
	163.868129628544			
NAALADL2	119.29304762171	137.97889661868	124.079109459437	
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NACA	10280.5093368677	10106.8225600705	10741.3064142855	8322.20177173035
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	347.812754957414	305.720812071583	558.440840319738	834.187014201026
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NACC1	143.336538157639	157.40255559397	148.282715835607	164.198494818485
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NACC2	154.021906399992	151.221783750989	133.401620574886	151.892445999591
	281.341452463344	139.321570881862	143.107570838895	140.696326952077
	146.832797779597	156.986053534635	145.338156577438	139.573371281569
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	298.573180660083	240.663883443935	264.936739264566	257.075088169589
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NADSYN1	326.758278851698	322.614169214764	324.949988230276	
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	15532.9759169142	11918.214537866	10280.5093368677	14938.5975217303
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	188.593378315122	155.393326732887	171.504939477949	155.219860096943
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NAGK	928.151632070573	1057.1528284934	916.4187683687	1207.11788506001
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NAGS	125.997109913348	140.497181450706	127.976612086284	123.791515424464
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NALCN	143.881744063934	154.205877662428	150.065275447769	159.508223180752
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	138.388749930671	150.851504454247	124.592771536872	149.687372584136
NALP5	126.265475477399	117.803508098322	134.339535632463	136.149732574763
	135.839123867443	126.752999657665	120.157438564977	126.241307445165
	123.797585446062	125.329960261871	134.988545581219	140.245786278057
NAMPT	146.856133875296	174.832495287192	143.692305478191	127.358616953147
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NARG2	180.658930225735	171.759102794108	187.196424491482	175.084729757407
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NAT1	146.135269553731	131.850952248545	136.964780183468	143.987296454585
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	753.389428590366	950.818917078515	624.467319041884	670.347447480331
NAT11	134.176925491721	134.569883788949	133.152523054305	122.426568507144
	160.625367261779	133.070896773384	137.43751840683	134.160882467542
	134.09920571607	135.82038791723	166.735962853075	134.688504981603
NAT12	205.011514211101	189.461090469712	177.549330396268	179.060189557496
	198.113398073968	163.36682525399	203.071186284148	175.417320301614
	192.168634727505	205.804144075374	207.624240598841	162.494429648551
NAT13	321.524921332256	310.301616266762	355.290621188435	283.163770658619
	353.005548289786	510.659785046811	466.392151902286	559.559921312181
	547.042461070351	423.045329000756	732.040299742444	534.276129011237
NAT14	339.379250332987	389.853534237748	288.072720517427	440.579262120451
	704.448123154868	409.477576085245	387.355661073935	290.213039891361
	226.43414383055	250.217137496422	249.590923098575	341.096072280715
NAT15	321.696082249696	322.36247485445	312.705458415152	410.138738410101
	622.834462068316	350.741303038926	438.7446527797	359.363523948825
	375.038561820137	339.379250332987	469.794672718173	359.440639663655
NAT2	124.690141443832	140.167274633872	125.481506166304	131.595868226775
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	128.375390373307	124.215466523555	118.283346939564	127.109798012351
NAT5	726.000622725287	810.396770151757	762.182213353032	740.196934996626
	1084.5920943349	1502.3444541735	1435.4236709581	1193.82799849555
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NAT6	172.686798187142	190.682392100564	155.431833398023	198.257497903131
	199.288100834476	137.811776724675	133.800111596565	148.574661934068
	126.305273697185	165.467462247066	176.940723174814	126.506749037908
NAT8	125.165254272421	120.897228878841	118.039780360151	118.797046082278
	115.180659017144	118.336654504789	125.720102558499	120.470801825675
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	202.253560413436	203.487137264	236.108432603479	131.846160346403
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NAT8L	130.142263689536	138.76667538162	137.814391189269	139.096536887753
	150.294432623474	140.099069486005	126.782805974059	137.854873498783
	135.880955433228	141.934351226006	115.142111396055	139.301435614165
NAT9	334.443733461841	295.463118191589	340.028737478082	317.904396212359
	390.098830270926	461.722481634933	572.548647437438	575.857954264295
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NAV1	348.36178568457	323.20628717764	250.25959091612	331.062744782933
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NAV2	379.292531644085	378.509324619452	341.901565692251	483.067471841953
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NAV3	157.927709922368	154.79534193124	129.586337068199	132.584454429269
	116.700397932007	115.310953814885	120.188885479773	122.885879294532
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NBAS	293.317880637519	298.256131536504	300.247304779062	381.971539806271
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NBEA	367.644907862372	327.324711245289	514.61297221467	320.648966489586
	154.127346849182	143.236593995493	189.662974464847	156.630366766924
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NBEAL1	108.483284007316	113.955459033122	116.981243525714	
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	268.930428617695	644.11603826131	326.703488388966	282.190861594303
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NBLA00301	214.714726648332	195.218005582618	370.227329649269	
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	158.002906093899	142.861359851088	166.433933349193	149.175458427847
	149.385103319547			
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	153.176268095608	161.142723532061	165.364935913232	176.670752486376
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	1047.2693539616	482.965800108538	1048.85768964657	1023.29995420518
	1336.75600604068	880.719593734606	1104.61581891596	713.23381913235
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	144.079935036119	131.744454088995	132.730924522748	140.957024692542
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	145.152605166094	130.37544152572	133.753999983813	134.620896927473
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NBPF5	169.881866987359	155.612543356905	155.890403934674	170.473956720945
	168.161117444474	186.127543877065	177.083095120017	162.403942351933
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NBPF7	157.733042033549	157.668307146391	159.009211991511	150.911524755251
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	157.433725133173	167.278879415171	186.268881719287	152.011551837951
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	141.710076413441	123.845504986626	160.435789207464	124.134916773123
NLGN2	291.616195651001	359.518199449791	362.306819797508	454.64556253724
	233.347820352278	294.922183826144	245.997705723007	231.146155346291
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NLGN3	132.924341641217	122.396214045451	137.002473710189	124.424565172377
	113.222264855561	115.847063825599	118.614641349402	121.799209715087
	107.993707827557	106.876902604214	124.561511833959	120.543881800775
NLGN4X	195.303469330682	200.890547965585	150.019181654237	
	150.28508305615	134.236149080639	458.705688226305	137.307786147787
	336.067655676466	139.771342253058	174.127444395862	154.562761981868
	141.939368369872			
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	157.800913051929	159.452527363763	135.286686011087	149.760883745928
	226.506852362359	168.720694813918	148.835389500419	204.681956301306
	338.739180103373			
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	194.092089507551	208.555506929113	290.389345090634	314.646369385896
	305.542978609337	162.37762946664	287.593221911064	249.763375041547
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	162.427505889157	187.93380542729	173.773876769683	161.85913459364
	163.736324784234	183.385868234361	177.223953859764	157.15947600423
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	165.092451754065	158.622993108149	158.869463014801	167.468390483999
	174.646321871605	156.543267949167	162.531630234824	160.073510173041
NLRC4	137.769431537236	130.031303483631	119.472410874778	114.021546689428
	115.827175143972	121.410606617535	127.760995691556	120.843429388102
	125.451525292802	117.77708734157	139.628966306048	121.95061962467
NLRC5	146.442734810495	133.453702113571	136.03117924052	127.314089756429
	121.643036773773	130.465221782084	139.564898998489	130.912137250515
	188.231614694297	131.481679396553	163.153676643372	135.491412261604
NLRP1	150.184863108453	140.332045911008	144.762006548375	125.997109913348
	125.124011798043	145.773932754923	133.711821318079	134.235164622221
	137.047288508371	137.491366243256	143.831294912255	158.627416752905
NLRP10	124.616629956864	128.475588360698	124.904518221898	
	123.683553177379	124.460064642088	127.299853592344	123.752109790056
	122.212222959338	126.730314982553	126.100454068838	140.583804906052
	117.980052938167			
NLRP11	118.47752077032	117.399753685854	109.740801301993	
	104.977794653504	104.633603136988	108.939608619532	109.506450285923
	112.142263331903	109.003365273337	115.337592860132	117.374025543149
	110.212739445			
NLRP12	152.29434111068	145.99474597064	147.70836747108	
	152.080057231881	151.989476683722	150.423586547273	157.575902297677
	152.175423676063	149.750924082863	137.885506916098	142.534195262988
	149.821848101995			
NLRP13	104.681530703922	114.740948266517	117.470731811595	
	113.23302126254	113.043089777907	112.357261386644	119.034003473459
	113.773684331489	111.381427322188	109.898406285895	144.608882758506
	106.102093734748			
NLRP14	156.976539870288	148.052222389368	157.568150431884	
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	160.435789207464	154.617462666847	161.870389635266	137.740497848238
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	157.765771942689	372.255208814622	4759.17973319588	162.240414467004
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	152.970079142629	158.723133891017	148.415036326153	150.000851192531
NLRP4	138.489443610941	152.68344738009	147.939682463235	144.190203286506
	135.092226300609	138.112168847027	141.117659724704	135.264074941678
	136.882429810263	135.812301062763	140.586497829504	139.092075947067
NLRP5	172.451128796055	151.442463705271	150.091854035356	161.744366588564
	130.980199575227	143.287237534352	137.262309660909	147.710252756854
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	121.709375771276	113.970633751086	107.816312357067	125.712260481294
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NLRP7	120.527518013376	127.494672751434	121.841080387875	129.034770823878
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NOL11	633.401624753368	609.100385482325	610.591049634222	484.230510636533
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NOL3	267.190228116903	281.846246549202	304.811116024094	302.637859140061
	184.377923161698	219.940167815376	241.039766283972	196.399050990244
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NOL4	187.069074575776	176.901042102323	208.713555471888	178.027417594263
	145.759500305177	144.152325539824	149.457761307441	146.823157886228
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NOL6	418.574045635945	436.155731212592	358.897128592042	484.568420044471
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	2891.03258768937	3277.24948092771	2456.36776585765	2847.42635118026
NOL8	455.08515350006	423.562598841704	477.056706273413	419.763812610671
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	484.230510636533	413.502150181875	566.543765584009	319.639103463458
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	161.385691765316	139.333282400639	134.172033051676	151.518116154483
NOLA1	255.462706428149	265.61506544085	275.841929188802	268.961643716282
	274.120234926832	320.305852961452	271.238736772408	325.011269531407
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NOLC1	172.80265044721	165.813771791917	167.961390966538	132.902437860565
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	159.788143847569	151.083551412109	148.879605388902	171.035391211596
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NPY2R	127.827096314406	113.177330690612	127.786141874218	102.563722570171
	121.22760405399	121.274997609378	127.179420421981	121.429270259367
	120.110473925082	104.896224175106	112.268518171041	122.236134282757
NPY5R	137.784270510433	150.748298569951	157.848456517169	157.494596757446
	159.845890841215	147.320976507643	154.046550866249	163.248980088946
	154.698312173556	149.599523779175	156.589829166493	152.705458417973
NPY6R	147.659772694732	140.184082384548	166.640325848102	126.22472822166
	109.806338826826	105.521320791331	122.724429060184	117.296972688814
	113.78323485587	98.4947439453387	116.566190779365	105.859916438163
NQO1	821.862271569917	954.488185198006	944.47112348734	1334.69145271749
	1033.48252432603	1615.60472592991	1623.92991386706	1978.12229412176
	1715.51071085304	909.727616721285	1355.07170485397	1465.2419150392
NQO2	349.330629649093	341.564749445905	311.449205777595	324.346723939622
	282.719121652073	261.814227719605	264.741946816665	321.568127272161
	194.413759761549	434.716530273383	276.714748212739	220.098071755353
NR0B1	145.749887769807	134.149446827982	135.191440283047	135.353539458856
	147.722646851008	160.254101852355	135.688346453694	149.223102493474
	134.323365608463	125.868080230094	160.79631681714	130.005909892804
NR0B2	122.817695619508	118.457573670556	115.923424095859	111.299115402008
	120.665520347481	108.910588012315	108.751654061536	109.209241676429
	113.536570797896	116.65880728655	120.665520347481	108.2359175332
NR1D1	170.306241656131	177.267145265362	176.410016510249	197.859546367676
	153.121693371757	165.080825814849	157.016659994185	163.951459935477
	169.003310163058	182.763057221385	150.287472248483	153.4392054301
NR1D2	242.471259857978	249.09278446472	281.881563164961	252.249994170536
	192.860161535869	244.486311003619	212.5119818331	195.160353691349
	208.42712014566	261.065986251886	204.695311233073	200.536814571322
NR1H2	442.86942574917	479.395948662331	473.73182675469	589.070196307574
	1074.96415574964	282.652193666078	324.615093103582	289.434186747703
	493.622989939072	222.764568757453	248.129640673859	242.871915060884
NR1H3	658.068932688816	604.237898104299	397.2528907311	506.165100641525
	703.29965727829	380.393153331219	684.715981522999	405.766055310869
	989.77058497525	290.389345090634	481.238450505207	642.934824227327
NR1H4	117.343165720552	128.835216648178	128.659393756477	130.521731606987
	116.881212516879	124.690141443832	118.192302821514	976.782815449208
	116.943791343147	135.829273398594	415.497783305278	120.29173510435
NR1I2	155.035727630756	143.987296454585	152.052084712417	148.684855678535
	148.294870328642	133.257477196196	152.50843414723	140.18668846839
	143.512348693556	138.897393621114	141.712693059287	142.669207969715

NR1I3	127.842177770276	115.270544506813	118.9952230535	123.231397809701
	122.428943658306	130.92186531563	125.967294930279	117.555999801887
	118.201092260839	121.181654892305	115.170176263172	116.86635524597
NR2C1	247.111032124864	216.209052148435	309.098519056843	199.058972781223
	233.426170535227	345.433025456954	268.034972830233	305.577166690215
	255.992494620859	236.809829701921	241.077618798955	288.823376348944
NR2C2	184.204036882642	196.399050990244	207.785320401354	182.197625235191
	200.518684601283	190.993590849624	198.925776755081	238.482863150124
	207.269530621176	188.348499229585	198.506786870804	204.183472655276
NR2C2AP	300.53017771156	323.391456630794	296.830999357172	
	379.546197364027	548.288640768746	637.695341427976	434.176007498693
	624.978351618077	391.911768848267	332.138346958671	341.361299896997
	371.457568934695			
NR2E1	140.738977175997	141.301503201175	153.985529457122	125.67874617392
	132.695992860853	141.380276932556	147.617354114584	143.893751699551
	141.698329968978	139.128751917566	159.572851489665	141.342216963124
NR2E3	113.479382235297	110.61165787102	116.46192274217	109.947300629824
	108.179513318734	115.954828435072	110.296425545476	110.068122112671
	107.221547998974	113.66416989856	121.116206210402	112.227434965199
NR2F1	2061.9164323309	2185.46850787298	1148.80141486692	1509.69760873558
	187.645390502607	249.737588031219	204.596753034535	313.322307299463
	393.796356067403	222.118666699301	197.795275907042	254.63506290698
NR2F2	418.645775576811	564.200165295159	405.843083758177	552.494327858264
	311.848379951974	261.286548990435	341.128917971124	340.903961204211
	454.030083521756	488.884511065882	333.131139447511	455.392133846517
NR2F6	480.36420271348	598.647226284738	358.415933397099	605.437395034282
	3403.37530051435	1595.22997714906	1567.89763050645	1556.41573079892
	1665.14066952917	678.684323057327	1632.84261181074	1211.39534395597
NR3C1	152.552277008504	155.572357799741	145.44629057846	142.728311130348
	120.669452856028	137.556552701816	123.566522075398	128.966514855818
	136.097571072206	183.633719048831	158.95714101556	135.705904966172
NR3C2	506.80969228563	571.439520427295	559.0867397858	601.401329244185
	145.280485286937	148.49560238679	143.00521196918	169.661107080542
	172.544504923991	143.554726863556	162.778480318754	153.02127620577
NR4A1	148.062245676711	144.345080865349	155.313873664923	139.268052431476
	130.233769058693	144.170287726456	127.206177583275	129.13353785479
	126.893023101449	139.336891718408	136.977435235496	131.432729794636
NR4A2	381.323457262383	941.572186137467	384.566987097657	403.984761333129
	279.495192828873	811.144838166905	177.562561297777	243.425632941131
	179.109090120497	300.443499140896	204.509884908059	195.946096353894
NR4A3	137.000868503792	162.900556089071	189.472541628897	139.153897381147
	132.265895156539	191.924177620803	135.839826264562	127.833653828539
	136.641140715439	135.29954024755	139.831964368637	129.656088836537
NR5A1	105.606964521964	105.408689610638	104.58424134098	99.7487411813724
	105.976284291356	105.31352471598	113.620070198869	112.38543517651
	110.16174213285	108.04922729993	112.3786222545	115.264104392064
NR5A2	136.246543311291	142.581441480371	118.855500322915	127.095347480109
	127.31790396929	134.465488237877	118.21084414402	135.647660756548
	136.71278398686	126.501648842366	137.599810249536	120.873985900666
NR6A1	153.43000129811	141.200676699805	152.915692742755	148.549257493128
	162.15259972225	147.305679046765	145.208597795717	159.286484253487
	153.146646647258	151.933078262284	138.469997677004	147.728018766726

NRAP	153.165872773973	152.179281925254	156.957578703389	167.337624316172
	156.061579024549	151.130401750721	163.960242712692	153.647343267295
	147.389892239448	159.196987090991	138.489443610941	154.431051053529
NRARP	136.930523377107	135.840528665314	140.464476678448	138.480633738745
	170.835513021958	158.23562423217	139.613193302406	144.331409179705
	145.507330257603	164.048326497989	152.393260140571	140.84880167881
NRAS	154.520935683104	152.258389962	134.545175953914	140.06989960847
	207.514489132778	202.421990203844	224.963277964548	208.476367897256
	170.807514224412	565.164961255054	207.338645756456	223.058699622386
NRBF2	202.314814594735	182.919385608842	186.679199600379	170.320777845496
	175.341310423897	204.942500423413	213.215996114827	216.427103365727
	199.397633942623	364.443097338814	254.447650810819	224.274329367512
NRBP1	333.91440669951	326.758278851698	282.045333787115	371.767182305618
	662.04757187541	277.539110964815	250.577945492981	241.527811817146
	229.97640195632	291.914408947328	252.894371238554	209.417052464583
NRBP2	882.798927428142	777.901979189395	946.273229715791	1000.48723872058
	256.471672362567	256.424415389574	342.998459706966	304.937584086529
	310.465070184707	560.015499136193	314.337680575998	485.87138934376
NRCAM	145.875240619257	152.350537364705	139.62718946833	133.308383825604
	156.911538642765	160.91894600916	147.879286704	150.176942469551
	181.288519308219	161.208713751942	141.753560518393	159.42746786085
NRD1	1307.96033038529	1230.00744483191	1355.66237447026	1258.16519121331
	1145.96710556468	1338.83705469394	1164.61390835016	1301.18893681695
	998.631321857182	1516.97921112926	1490.02976786379	1242.61637859159
NRF1	126.435928518593	126.476866025397	123.453048609213	127.661634554996
	122.125746529725	120.246240734668	122.873661677648	128.604270382206
	120.379393989882	124.526220300907	140.92377681377	120.041623078295
NRG1	139.864176113337	141.261150586614	135.242328667085	129.953801496113
	134.891736344801	136.601220755282	133.891337645936	132.425596223397
	140.975056186954	135.16316100494	129.299810898979	131.300342835696
NRG2	138.405215507471	148.09868976776	130.579954890389	135.766466392056
	172.045843691642	109.266533255266	132.631819830347	115.457121859064
	118.47752077032	116.819107878692	132.395993254065	114.200099628087
NRG3	166.036553680319	171.473538842796	184.816515945311	171.216275057884
	170.452989060697	180.231462528702	164.804822506224	164.072443259668
	158.999305963902	171.537040561599	152.738468369498	171.190796424612
NRG4	152.948391119096	143.231806900648	147.903030308715	151.694193636313
	149.622695843398	170.614129599775	273.402804140541	164.791545858875
	161.972922129453	277.285526811736	197.146035305296	260.999345837027
NRGN	175.428000742222	237.456245064363	161.208713751942	172.438141471784
	309.861048237742	163.446813963119	168.867373925372	179.49202902995
	179.478756495687	178.377461551319	153.519207482423	165.737618983611
NRIP1	491.112594297928	471.816954259146	431.861762635568	395.716879127149
	515.432065049838	1088.25132365974	619.223672253014	738.087203930249
	693.516351173476	902.089561157715	463.622673539254	701.208391798006
NRIP2	145.924751649542	161.316521450944	138.058404474114	154.187420367647
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NRIP3	419.126814511305	484.363052437459	282.190861594303	614.094097408035
	255.12306184224	243.732074437237	282.870785313621	551.92688162618
	391.782120640025	335.059844742031	245.978723809154	227.050629701762
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	176.631604815669	189.539458686123	199.70041209487	189.362958041175
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NRL	135.63604256516	139.571752933877	137.919253591105	130.316282003711
	133.533020887439	128.339161042799	126.956303896995	131.193538235053
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	250.718986968076	157.425924587516	167.871703133182	178.142393629606
	167.637638693195	178.284294783418	177.478925091583	203.244917049745
NRN1	143.899201949317	143.877226672663	139.741862925156	142.776295389006
	138.384797779855	127.930072902878	132.464205461991	125.073353210914
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NRN1L	127.985051303973	118.88525116298	121.174618503873	126.719205774829
	123.902047880095	128.835216648178	115.409568875238	130.161889021281
	124.086902599543	126.788749235867	137.850437814788	109.128394735532
NRP1	304.590636814607	320.648966489586	216.731618532814	334.857690525582
	196.269193578525	273.984715370774	169.168869363848	212.312154721246
	213.891435492914	268.78904911703	211.419445018736	191.861598059182
NRP2	139.644701550661	138.712529531951	139.667714422309	131.510494315469
	133.113581756557	125.068362001087	128.182419321978	122.170662903259
	124.61344300674	129.462319953515	130.761936205169	126.492058851464
NRSN1	145.324499089416	132.674061422332	125.865974180252	129.551260802518
	129.018088749395	130.392575279055	128.129780978486	136.229159638766
	126.708817316134	128.79607493422	134.828360289676	134.757300066835
NRSN2	271.356289141017	306.486275677467	279.541294184609	369.275635424092
	385.522443482	239.388546850124	219.996410908721	209.887047474042
	277.86338481075	221.18757533703	176.410016510249	240.005943851098
NRTN	185.100455193182	196.207631868755	145.03221570575	274.316982298975
	146.579073345319	129.880696706381	119.974853329265	138.086270564406
	123.25201993575	135.48250324478	127.279107079261	125.40832206502
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	143.13304460184	143.639894909386	138.850077456103	138.972789382679
	138.748941735079	143.810050834214	141.378381097266	137.812249316763
NRXN2	286.506419296679	477.056706273413	193.871324880919	832.335328912437
	147.679233228201	146.054535585464	138.541779821934	142.077913913564
	141.746976260176	134.963301368391	136.572645314012	133.011320549232
NRXN3	173.798554769204	147.028946382445	142.108805047729	147.896919205072
	161.983987604	135.341892490559	148.777757083469	153.911165277809
	132.197346228417	136.760382409185	142.34471764492	137.663941989772
NS3BP	133.802898895457	138.068164255305	158.712241098927	135.455283504668
	139.856251508283	124.036907709461	124.329980024986	127.354826381656
	125.634045420702	135.096321258167	131.117294275244	139.297276687352
NSA2	1619.67820476414	1736.03342040646	1736.03342040646	1158.057104827
	541.460843251764	960.491731797061	2618.64973582507	1057.1528284934
	923.130629121442	2395.75453574049	1542.35486950856	1669.97250023755
NSBP1	273.668871896558	306.677271064305	304.636618563775	291.50783830983
	161.891809608511	173.681078272467	193.522811257085	181.431827312784
	199.191065549132	193.786889748038	193.660159482867	187.352655464866
NSD1	169.095270479344	158.292581724934	169.881866987359	152.933230159216
	153.222807811478	166.452651396293	145.176141415244	168.744610747563
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	373.096629378654	485.576566972696	503.093655556038	720.214044399108
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NSFL1C	654.108318810728	683.861021234927	777.901979189395	
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NSL1	320.979443123471	320.214614455231	285.562276640039	309.155070674445
	250.139061165593	305.050933898691	309.155070674445	248.791254839869
	284.195575802966	277.652851236546	243.95334982553	351.998551165704
NSMAF	852.436775264873	734.139557942719	798.943242964857	704.448123154868
	596.934339406636	776.411045078049	553.123179808258	726.731270955732
	709.778171909457	648.823677010146	926.283018664897	624.106546150735
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	606.003956839826	713.087392708048	538.369868115137	729.202002368627
	569.967953318205			
NSMCE2	236.933960698783	247.236004734567	285.507315916663	
	302.532985701607	236.427507270325	301.871924474014	337.585502787016
	267.222762759781	336.338518973032	358.975346234854	225.783771938969
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	1456.76683429755	1247.91041567746	775.5664718389	1139.76755449089
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NSUN2	1062.03157932144	1198.53117439169	1141.49294161587	1222.59895569348
	1707.09830463606	1694.24232555141	1812.07394646463	2779.89882032092
	1695.26858186096	1373.67062432073	1413.37062765856	1996.65760745757
NSUN3	167.330860677012	168.483273292464	180.798671424395	195.033792280119
	194.072260528037	181.123571246557	208.64349688412	210.061754644824
	209.304654633004	178.153527134452	206.149539851803	187.443940151794
NSUN4	413.398641688413	387.827718022473	337.39574303968	405.975221091252
	364.678403892354	491.906642849373	420.446810988909	483.549698382115
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	188.45479937455	218.559622620349	240.497413647633	210.33390115739
	198.456392063513	265.110264596425	178.572212478544	257.372740535895
ODF3	139.199446543251	121.103620738719	124.585675323305	122.139832263188
	135.309431186017	139.94624507228	136.330636532576	127.035980859996
	124.93629294955	138.20899000519	140.201501710276	123.809866652834
ODF3B	170.243136294537	151.961811748754	149.756512110538	161.104993402456
	157.963634535239	157.225479764928	152.258389962	160.843325877861
	175.51767355303	161.817609920327	182.066922756289	167.73288535728
ODF3L1	136.657107363796	134.033751039071	124.735542880811	
	121.246967460178	134.56763097313	140.581943144813	121.807661901776
	121.059923601223	119.072213573568	145.735532706214	142.236565028336
	131.707530115415			
ODF3L2	133.099175110023	135.477059311179	133.425151103622	
	129.356401843185	128.135216461862	134.013748718539	152.555437272666
	128.912199634685	130.63591305094	123.601413134287	135.938590242744
	126.343040504566			
ODF4	129.55573546861	137.012646671173	131.479997342133	130.689272423595
	129.299810898979	119.539713878832	133.982435445664	130.24527031028
	140.058153633802	128.853089272901	166.570606752678	123.21732068638
ODZ1	159.273225917177	148.000706956532	155.590197324062	164.299585578035
	140.569391362701	133.984078167807	142.677386111317	146.515240633175
	137.348951314875	140.975056186954	135.930107381894	153.711354087243
ODZ2	126.626904958599	121.989964850397	131.374680878107	123.470830748348
	121.903115540516	117.008277388399	132.573953444192	127.41463780496
	126.88066987372	132.171282327983	147.790720062226	125.677019190255
ODZ3	396.611050163857	444.479355480138	270.945325305492	456.298408568636
	133.378374710498	113.891385601095	110.662552491706	130.977864137459
	128.601885372662	247.806371601734	121.51208055933	106.470524594239
ODZ4	176.641899861006	188.74403596953	143.49969914174	193.148369507405
	189.539458686123	136.280653079814	145.643752002787	168.111124820968
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	136.701400398129	136.306727083526	138.79473329684	143.50323531501
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OFD1	318.487401106209	292.366934378643	277.219796733134	285.507315916663
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	317.493387040816	315.786908578669	681.677841333095	372.689712716797
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OGDHL	132.825240485239	132.381685434931	143.756242843438	133.53523683945
	162.216377983292	163.552608805894	154.695060071104	130.526673128214
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	127.55397077248	127.601379088239	117.284724854784	114.39161822971
	115.531710316716	119.152881350581	126.81140158672	136.682172321984
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	185.938983266802	174.510523238374	175.111460651956	222.646371492347
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OLFM3	117.05536677976	116.221426977629	115.884253217495	125.481506166304
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	115.884253217495	112.74498133815	130.917269984571	106.341910466588
OLFM4	179.15284184774	138.572054821151	136.977435235496	130.511042322504
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OLFML1	639.688482258192	589.240581642145	386.679822751367	
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	139.979025013908	149.322537247388	128.864822736402	132.448602065824
OLIG3	116.685023927951	126.452500728601	129.334217858282	122.682761393215
	135.553183871663	129.054577477882	127.422129210789	128.090665893885
	122.309041354217	121.628827418997	149.343930487315	129.449242018727
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OMA1	283.123157828849	261.639437655633	377.593087606046	230.263678910356
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	113.78644620959	107.638492587723	114.062099086818	111.286141277084
OPHN1	156.269957530519	150.717996520257	158.072347847051	154.728941096647
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OPLAH	171.373932115412	172.502036705114	156.94531513373	183.416437587938
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	148.082026641671	148.367132982373	158.295583769612	135.93352186143
	153.345834660643	149.801573181126	148.553324405123	110.544044723728
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OPN1MW	136.202953030465	129.636135486593	129.701347789845	
	149.166635189875	147.502116289881	143.385915173392	148.326282600684
	131.448656182179	144.64757514198	140.925705285169	130.625825024195
	142.119327380686			
OPN1MW2	126.386738502885	124.334450753704	125.452973441746	
	114.721282552636	115.107214937219	126.543399408429	143.473523258521
	138.201164395948	124.800221241981	128.019837242559	135.668768914964
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OPN5	144.396774242135	144.358535632993	143.50323531501	135.621035941292
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OPRD1	123.306499698566	120.93965087814	124.961859983596	130.418739793498
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OR7G3 122.456286448252 129.513590304528 119.555954372381 140.63666629522
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OR8D1	120.887938517877	128.666652639862	123.843823256462	118.957512510094
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	111.7529190597	114.3172128566	144.413210364148	122.733870240098
OR8D2	125.887854850942	131.447941902406	134.946677624454	115.285392699073
	130.728465509213	115.646023142125	132.657106732366	124.772219140795
	131.2360427855	128.087991226561	127.478474451121	126.743579586052
OR8D4	117.386273592501	129.70974867852	113.031636180748	116.604371744082
	115.646023142125	126.112672816035	107.395559299582	107.260023460914
	116.038950886552	115.457121859064	113.927168436775	122.469113037809
OR8G1	129.945543636232	129.888444399067	135.985358106767	144.898770838913
	126.473768158566	143.703367582367	132.714532888989	151.183847738922
	129.758303592589	137.853137973756	142.737537206204	130.784802403934
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	116.134550788966	105.236768436069	118.124160279094	109.228587997052
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	155.824409540332	140.047749881567	137.94246602811	139.3465236423
OR8H2	148.989286668424	145.806935833967	140.171749368266	152.689610196981
	138.582427155109	154.127346849182	145.131215503044	147.086734464001
	140.475688390415	140.167274633872	127.905616521853	143.948375780951
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	106.603674195422	113.840813583258	116.65880728655	116.136849683574
	113.980716384814	126.025161261042	135.231458421096	122.531675048414
OR8I2	142.073529553425	119.725487374119	148.846121873401	131.879526177089
	132.928639483854	138.167369090026	138.657241641263	146.274284557421
	126.343040504566	135.461112284848	137.398748156909	142.839077978518
OR8J1	134.185202200317	131.534097198718	135.153588830407	132.118118271944
	127.299853592344	132.532231556418	135.501192996538	136.120813399579
	134.244658505187	135.33941967076	135.353539458856	131.739418639854
OR8J3	138.299629744589	154.443360208399	159.196987090991	160.997179739138
	163.672213020803	146.247825342634	148.13657736444	149.77596374205
	154.722895261876	146.209104824109	142.194507957661	138.756638791139
OR8K1	114.520066232155	119.26921157552	115.954828435072	104.896224175106
	121.830137285032	110.536316697732	105.62620788923	107.993707827557
	104.154182930018	115.048402956574	121.778756075848	112.126521532091
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	137.128849888863	139.900523831258	138.661548678191	132.411757518105
	144.199054675488	131.237720549768	118.897717445414	152.207601283271
OR8K5	150.534608517044	143.16930809425	141.092486112278	157.078563342652
	152.030182228463	141.960809148036	226.114369645703	148.25001336038
	152.961475450751	147.920946479942	141.478253058549	137.634298014431
OR8S1	115.277302351501	119.415822905251	120.846789922177	105.236768436069
	109.69466049307	111.949644842971	108.404733392914	108.895922800601
	109.851507510788	110.694256186941	119.95666716163	118.148476979319
OR8U1	110.670057121283	107.655624022312	116.825172441325	113.879459563492
	110.794219964997	120.527518013376	120.93965087814	116.5272207025
	112.268518171041	120.485138937899	121.23469201559	110.273174147374
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OR8U9	140.659276788384	138.659387475119	132.277920991504	143.526983440589
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	150.557982810339	139.170102961407	138.805103589625	146.054535585464
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	167.219062918573	133.137299889323	143.974551393951	146.404727168045
	143.67880977119	138.255457081996	142.945392802281	144.863617174741
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	189.567241599215	206.257167235126	187.046760972666	189.90406457741
OR9G1	131.162118170837	137.77107995457	128.870079563075	136.355319997318
	138.363553671822	127.389942368953	137.212568398657	126.948090173876
	126.151017944639	124.959873714884	128.477342430713	123.814841047589
OR9G4	114.155592351175	105.096927149239	111.922007318017	107.714294216913
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	111.366283149236	112.605287278882	126.083599163604	117.662611650515
OR9G9	122.809241232029	133.647637744785	152.612116997575	159.970332650101
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	138.946807715282	139.768555796264	127.003974141317	125.364821583438
OR9I1	143.101750222256	134.151372457715	140.288612271406	137.335501759561
	135.244303669342	135.118955626451	153.45050352117	131.999299893526
	140.18668846839	139.718721422663	127.863583325139	144.290286088611
OR9K2	134.436423298225	138.038446102921	123.678365506247	140.814009587096
	134.9404536551	124.802639338573	134.744175117719	124.036907709461
	140.590802695412	128.864822736402	138.570150372729	138.112168847027
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	126.611663427876	118.289405191861	122.608967303023	116.331428876124
	112.684334910243	115.656801309856	118.540620928268	113.891385601095
OR9Q2	128.344679872625	124.539006083936	124.568534983277	125.765399556488
	146.151639797173	131.000186898437	119.95666716163	131.019345449516
	125.081880303992	127.31283918221	132.287326702468	127.610304071204
ORAI1	155.303903514061	175.29178007783	145.03804642447	171.784981874184
	385.978867521533	133.587927144452	156.34272729153	128.939572714685
	152.175423676063	147.077695919758	175.744275464701	150.817922696097
ORAI2	121.815538475678	137.107621189522	141.920967855989	154.623548525522
	165.430811083128	134.423260547727	144.073739611496	152.496881293769
	144.301577198126	160.549597620339	137.890006487904	158.665476708054
ORAI3	162.812665683603	161.80922869659	165.092451754065	187.586093248437
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	133.12641302705	128.955241553429	205.305702209672	133.297361715205
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	198.90533452253	180.578528984075	164.548505132213	200.114704018645
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	291.221427744817	271.713695056313	294.115163083721	339.32415558339
ORC3L	320.525885538523	323.667189206453	367.825328832492	283.326226944158
	337.434882771953	331.523536427527	392.365008240567	290.288001750744
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ORC4L	166.863589702453	172.992936821292	214.38058301395	179.460777888284
	167.965981130329	196.638594797353	190.045156046541	167.474790447134
	174.787077606165	153.913513669361	129.311134743311	186.758038665014
ORC5L	263.426870776148	276.867974638972	301.49286558088	302.768870633398
	313.773476049783	306.011283364888	255.462706428149	336.120322555703
	269.238332581564	263.606930507829	243.455305933211	372.81255844018
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	10397.3656932566	20099.9833491654	13190.4826009741	16397.4527321924
	17141.9934540963	12171.1997841553	10312.8407173696	16123.3486890049
ORM1	145.619570216377	138.647667867725	147.562757301251	143.145483889918
	140.912000800926	152.680068580858	134.550341773204	140.48372620406
	154.431051053529	149.416411285088	143.00932329728	144.699084515687
ORM2	125.321968563987	128.959487155628	132.409582164007	130.215290990406
	137.049677918041	133.814720785534	126.520909083643	143.35902319003
	138.723149134933	135.825931047185	124.385193388896	133.281505040209
ORMDL1	451.317592236192	388.782774926005	434.390613381746	
	323.462252156562	357.140791982825	596.54904286299	506.80969228563
	603.906237227931	645.183207984114	471.15333189869	801.702878226247
	618.058496806334			
ORMDL2	156.357126871243	155.43577761798	179.478756495687	
	153.258616843783	207.864808684047	199.077893147154	219.564603776774
	230.947339143332	220.047563627558	251.833571288967	250.928804390353
	242.848821222611			
ORMDL3	268.885346595453	286.194197552489	256.127197303751	
	301.051775938853	392.430873293903	460.089380701982	561.761160223609
	924.040923247227	603.906237227931	226.449705559354	268.148673257455
	491.906642849373			
OS9	286.856346704286	304.111808763793	268.832884350157	243.732074437237
	381.625983354158	262.233918187791	373.545629693667	466.392151902286
	283.556453980797	289.001004912528	342.935878735854	278.005620372937
OSAP	184.602704530362	182.624130582754	245.378747269929	245.195406638979
	139.130560988108	137.161065320948	134.753783025994	143.613003173841
	147.9084767638	141.54943189147	147.011838288594	156.4687904356
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	1257.32413345748	1865.44709751822	1294.18114559128	1515.38811502277
	2430.70635781622	1261.61611961272	1396.4168898623	1160.25775445193
OSBP2	131.298129667973	131.894919149666	126.743579586052	133.857996630836
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	224.547982731402	345.977609212137	273.75192868583	224.439293045835
OSBPL10	1640.99641023476	1430.20038077595	1804.63762008613	
	1669.97250023755	197.308952757609	152.11446058397	130.965418847276
	194.686527131656	225.423403713718	366.317263094585	127.930072902878
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	182.346834032145	196.053808536366	200.242239130026	196.207631868755
	209.004374703564	206.77605957523	199.798533722581	215.47323777134
	186.563913311757			
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164.726382689707 396.611050163857 140.419686138586 158.973872644973
OSMR 138.167369090026 144.173163762502 161.983987604 136.783974483005
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OSR1	1854.11328962023	2853.14759681683	2886.92690692502	4732.31591164752
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	134.867806860993	128.942892882721	127.486697506397	135.315732654507
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OTOL1	119.502758763438	112.309528593741	110.256771079797	115.896463925125
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	127.612859839494	118.406487008528	120.757288533244	116.688949603376
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	283.014222473749	187.112176929485	220.446775597113	187.993907528473
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	166.780319723055	189.324370290702	154.350107666084	175.686248503777
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	184.056274452194	233.496804016764	357.672950588403	258.807028561407
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	148.022287939066	141.079317977197	150.275163835924	135.448170440824
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	150.439715066903	121.556331561879	136.011474063229	145.431393142782
	108.9291713877	128.417571004317	140.840895590527	149.752188104803
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OTX1	109.760525674874	119.886433564236	108.646136431909	113.66416989856
	123.072413274454	115.656801309856	120.333487171575	147.537691509156
	119.717408713154	133.496922906874	130.142263689536	102.166449349339
OTX2	119.555954372381	119.882472552083	120.96098661114	118.802030418792
	117.580122770251	118.589392612801	114.598636725763	113.61408868553
	115.321501844663	118.558673085303	140.431591727649	117.207266754941
OVCA2	134.831550401848	124.327827104244	119.352995485911	117.910259090745
	130.143953880391	163.773702843544	140.149064156135	140.167274633872
	136.904851056919	151.040909999868	141.913001976093	175.019580368717

OVCH1	112.126521532091	103.734303632543	117.361778263056	123.748788684337
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	123.067278658698	120.422401793885	118.294324274616	119.486895914055
OVCH2	151.519845657755	143.532014058535	135.186880148352	144.568417378353
	140.105675520432	140.754706171596	154.701413581915	146.459202036419
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OVGP1	278.88183549759	282.47352481715	304.402066421813	293.986292438714
	329.333236839082	883.140984728615	625.152889992949	828.683748921915
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OVOL1	126.992697289075	124.794260959228	119.673343767067	129.719122724699
	237.906142045719	204.710203150526	175.711836112986	157.094001180073
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OVOL2	122.94937342991	173.798554769204	138.562576783507	111.783160346742
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OVOS	148.832461329713	149.791777262424	175.210232663606	174.991941844263
	156.043994260248	169.211708954329	170.966588957686	151.269442319766
	157.099868633958	136.846912694371	149.797850183848	144.004831360797
OVOS2	141.488910091973	131.631968933144	144.373226011578	135.017196494069
	141.791001213681	138.158400190671	130.988294699995	137.540275229889
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OXAL1	579.678635803225	567.317223907142	760.070180572621	642.647554580301
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	131.866599432062	179.009510246709	114.533677697026	159.466972602203
	142.765490244223	230.975434289172	141.215542377796	121.027465953657
OXCT2	172.783430414523	167.373416675264	159.094117857743	176.183165494563
	220.633692394229	196.269193578525	156.333133322672	176.128369308989
	176.355556618289	157.776321544382	159.951697830252	180.3779211444
OXER1	170.858049313581	199.916301659113	162.900556089071	205.260673843294
	172.157660228549	150.843975804117	154.889079187405	151.973681370675
	140.602170750673	156.130224537288	141.770977101211	156.280701500421
OXGR1	118.220555783444	125.833649377492	130.247700541716	117.361778263056
	119.172965618216	133.305679931132	138.911993471119	157.619627711954
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OXNAD1	121.311836944721	122.714122084817	121.429270259367	
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OXR1	618.661249163439	685.620637807134	621.825622897512	611.772512110915
	850.882404546093	976.050097371579	1030.56836625083	865.800709006332
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OXSM	165.143417235314	181.530767521222	151.299425811105	196.144420005021
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	1002.88224342342	1321.17236442448	674.101599637653	911.340266389071
OXT	155.53992663898	160.156127781701	154.300058278533	170.169402943662
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	145.152605166094	149.013011292165	146.632312874102	142.876069462608

OXTR	158.631298154353	170.01557699913	182.747079625619	210.77489002666
	238.745953695925	198.522123898437	221.127492253636	194.36669779004
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P2RX2	144.476157581998	133.327778635672	132.526286141997	131.503936441405
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	130.309092946921	130.736466113571	132.86711707789	134.224781719944
P2RX3	151.497680466119	140.156797128045	147.4182675362	166.007913607742
	144.48495176385	151.722405598425	156.173099025259	147.766043861937
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P2RX4	244.954917633904	225.950750084197	232.879578820053	234.550692915716
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	109.793568518462	121.689416823766	117.834484996559	117.913545753709
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	155.393326732887	148.610537244399	187.955617187544	137.22727238555
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	113.938636269013	112.3786222545	120.227386958188	133.296200563657
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	180.599150102184	161.720405760536	157.912864169081	140.955772094739
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	144.713108022551	152.20173979854	129.916677638819	159.159106382346
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	257.534293550585	235.795627549799	311.806908624308	157.717145014769
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	1419.4638331856			
PAPOLB	115.999443701343	112.005939063045	117.897556445952	
	122.197625748146	113.857477830423	123.395897439193	119.257387524365
	125.528638246486	114.027244455291	126.561067704708	117.856184272322
	116.670491972948			
PAPOLG	140.89666990854	155.578524031078	151.734683227196	
	171.49930976135	170.18781660707	159.368376366657	146.54504551183
	153.248199842194	139.972797966319	175.537039794925	135.217240511902
	160.407690552027			
PAPPA	292.068293167526	289.82072316082	185.727947276958	214.662648581622
	153.02549014611	285.63245179313	187.352655464866	257.880331012233
	246.80306998812	289.724297749772	153.524100996368	177.831718771025
PAPPA2	135.872060352476	135.641355114263	122.438438464097	
	123.111192189217	128.224742304889	129.368045611894	129.158212237299
	120.915108114673	139.092075947067	146.450806121927	129.297217956843
	127.987449338817			
PAPSS1	476.168679880357	503.757797957538	583.938727139698	
	398.512947526406	382.562403424855	613.063954859056	610.070236234299
	669.602939159192	551.206833852215	704.448123154868	735.8141982568
	537.419316887523			
PAPSS2	443.623904480087	349.65350886897	284.236970342827	
	305.451247405518	192.69687837782	181.966110264509	198.191669030952
	248.690121805116	244.925472495705	324.871248300476	165.863118584978
	199.149959995133			
PAQR3	233.71520737817	218.369954323686	230.179200974631	180.231462528702
	206.428618912264	331.848516303011	361.160881334174	260.746952459282
	267.483886037099	270.568660560796	236.326943078666	259.796092536601
PAQR4	182.763057221385	177.772019227116	157.435477846812	213.877482604185
	662.213423011533	357.063270015318	182.929326147069	327.635520861099
	338.822464893411	671.821418586421	269.072221443403	367.983166440977

PAQR5	163.534117903837	152.021576565132	151.766607453172	139.60494712939
	136.704018446388	158.200211812067	144.107029869771	135.227424713702
	143.118188813831	166.061891147234	137.85150144918	141.013392458859
PAQR6	125.969321927281	121.468398802591	122.428943658306	130.4631522533
	140.379874810685	143.982561564661	120.964862799634	170.12010526854
	126.991140761102	122.305514440939	148.739888930189	124.777895136212
PAQR7	337.077153882632	393.375554593484	332.400086578723	383.10686624119
	1182.50261323518	620.163512570453	740.527607312565	476.782624160552
	1056.43975075255	274.534901548678	1233.27155759407	309.229066204308
PAQR8	464.196512015649	521.512936372701	519.112018353676	382.744523022686
	503.967725251906	297.285037835812	308.803322140241	371.457568934695
	434.073729807058	196.014841240142	1908.81864728547	271.430915699592
PAQR9	111.188410935711	109.728809191027	116.70650322987	105.348008821162
	115.582048644075	115.217608555334	113.549098821204	109.924867620862
	110.368392735494	117.829228895897	110.952108124186	116.566190779365
PAR1	143.799113486767	147.740657356905	153.457715729768	147.684875777977
	153.589626253969	153.412469512967	141.099781722697	131.915864620669
	151.961811748754	148.195611015135	148.632332840817	151.226242696197
PAR4	120.735176435195	121.730973193225	135.918590725404	128.779829252045
	127.242627779136	124.625603721372	121.893446546512	124.370381674692
	122.953869661977	127.964855970099	143.628147237159	136.754116864655
PAR5	155.686889874806	148.888698484378	179.421854100287	149.714982846365
	146.533374238616	138.466136108202	153.846723846716	142.589312139207
	148.340380102097	145.892876412762	159.784369379077	132.365002835934
PARD3	155.343619434375	158.135321157995	150.503278880269	169.293852989203
	194.753955100069	139.459975305985	153.217287503221	129.116354997747
	122.708102546276	124.033766796333	179.109090120497	139.195281937545
PARD3B	132.233396667074	139.429008129291	144.258128917228	
	160.117742879282	136.366798516444	146.975258859244	150.956247643013
	139.750281709938	135.345616014558	134.436423298225	129.16337177104
	149.622695843398			
PARD6A	185.896304740844	206.585387130993	205.428900832926	
	242.471259857978	337.077153882632	235.133284525241	195.608619642038
	213.531307836195	171.835438335216	129.984214994811	183.613051401168
	190.682392100564			
PARD6B	154.379788206936	161.456727894848	148.951632781748	
	138.829793136954	161.922462797736	181.036375971015	190.111477641308
	145.286983999628	161.299920355406	174.898012759712	161.094103878416
	141.13343407335			
PARD6G	166.388683552371	189.450316943845	170.01557699913	
	166.20327698517	284.438411011954	294.808980631295	265.829122816166
	296.290104133844	239.941641600769	369.974231530826	366.408565514304
	273.369722814068			
PARG	148.388093331273	144.916193282062	149.722442994599	149.127963327999
	150.029313080668	153.964765831852	177.001637712889	151.079500558067
	159.102070980047	154.681604647652	154.197254746757	149.019120812629
PARK2	138.924820359912	133.509538648848	159.572851489665	135.778099658349
	117.119533897652	132.083532534267	139.693261291326	121.898921780569
	129.294026995663	136.440671408022	132.146027935802	130.309092946921
PARK7	3671.86460903374	3447.19587767281	3994.64569045702	3468.14455177277
	2763.86550710042	4711.21389812942	3648.38765465889	3598.30438198858
	3384.19521857242	2446.31228564539	2563.02488807613	4016.35381420598

PARL 1200.03423010236 1251.56853099362 1421.72388964898 1303.94157493616
1105.80735904293 1032.11574332305 1105.80735904293 1000.05896885496
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PARM1 2770.7811954029 2479.34567973462 3241.23835624706 2009.21931102311
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PARP1 2104.59597571915 2403.42261883515 2313.56743052616 3008.43964505208
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PARP10 266.964673763497 221.685824197352 160.791355483048
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139.308325848216 135.504526903482 132.836513637574 127.016845640004
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PARP16 234.322989368622 218.393783552484 234.214191437687
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159.099495828517 171.714973501563 161.640122360448 203.071186284148
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507.827473844576 265.174306663185 336.70893120135 269.053237303244
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PARP4 923.130629121442 827.400420888645 1137.42879398351 782.746481112316
1184.88559645917 2195.41077320434 1767.70023790753 1996.65760745757
1756.88092410303 1133.22524345111 3052.86038628748 3592.7878705048
PARP6 232.918330930051 235.530986541549 239.31180635241 247.971366020963
174.068974937318 211.395593720534 193.008902902654 182.028675726969
152.51547053919 204.584643964409 205.871133967588 227.774354299962
PARP8 248.927790738447 240.07282016658 355.048838683854 286.642323413104
149.707357499252 150.885460975199 182.095387488796 180.761100930677
178.707066209511 208.611557959861 163.181323768362 208.456472621593
PARP9 402.965083947376 295.420691959792 281.618175110153 273.197814995543
245.811312606484 348.848550937417 417.987533397449 437.770841893227
696.650617523899 304.237479317271 594.180861801958 389.109250187902

PARS2	165.627852733455	178.488874074222	162.642344529383	170.992074907355
	222.8766610624	165.467462247066	198.760049629983	178.636555178682
	173.532300173223	168.702991603656	174.761105961773	166.47851613068
PART1	153.426409060413	165.085010975035	158.882535865069	161.678137139371
	135.964630862223	139.476234663488	138.038446102921	128.26957712082
	131.613738869093	141.308299074832	144.905870145004	137.884051774657
PARVA	919.626220838414	774.997895985917	1096.10636044885	969.811933814244
	196.615914367563	253.495214569632	171.954184094677	224.528190554963
	246.850599569231	373.033658917608	221.027562527572	196.310746973798
PARVB	241.557810100265	233.975864722289	196.777776509371	322.837446618323
	177.457362387052	174.941551089279	151.889644436875	161.548130965486
	170.684848540493	195.84531580224	173.088291472857	181.876635968785
PARVG	155.83143112621	140.622130978368	121.553107861517	133.083877012766
	128.482976013813	119.305917403956	119.806933383138	168.183542846746
	217.910445051307	133.357385559881	159.207567680134	135.607537832704
PASD1	148.816369706133	147.919058170753	137.195906276069	146.875733210901
	172.591885279428	144.046646189442	152.42111372681	147.433388299999
	148.347642424885	154.347332766547	135.93352186143	155.728609337723
PASK	149.153827025981	158.602687876661	164.098880989592	185.342353172151
	193.336246844237	207.036293322882	187.93380542729	197.262062021667
	242.5085895186	185.46843333826	176.547853494057	187.529556428609
PATE1	159.41705570719	154.113228966411	134.307336063739	148.490236128772
	141.985130140173	141.275667354541	136.111569529393	156.381599544223
	140.121874960672	141.449119281888	155.828962183804	140.583804906052
PATE2	397.387054218873	510.226374558703	345.565843875296	411.451612988791
	210.14307111352	493.492348317616	315.47473326786	343.121661664987
	280.531844086775	263.568160216149	478.909308632726	331.523536427527
PATE3	152.353494489233	169.744100665038	164.442400539653	143.745594527046
	152.274957846518	187.389039221193	201.731223995887	175.469375624274
	164.880911221767	216.705908017858	166.320461361356	217.86728342043
PATL1	544.222458349696	560.913732951675	556.568221094639	512.541205235935
	439.023181761356	732.352357321273	854.815394943219	609.100385482325
	845.646455991008	720.710754387733	861.786094902013	856.424155671931
PATL2	144.277263594387	144.623222072851	139.331046480528	149.320667417893
	147.772490977392	144.12472003202	144.339819009283	157.096799934494
	156.194996994993	136.893392154262	152.331011756244	141.202092246048
PATZ1	135.766466392056	133.382099379709	153.524100996368	149.343930487315
	189.662974464847	158.130933580414	154.894196413558	154.768422926874
	145.496033735748	136.124385992905	161.525131363333	155.228605554943
PAWR	230.227432807772	194.388383297922	225.75155298452	226.989201461085
	349.128741707506	248.850686917567	292.746711619565	527.498114662967
	239.148333781084	357.063270015318	188.013181859196	253.601378730911
PAX1	115.137475087954	124.833659452957	121.888886996534	118.461037435114
	118.945264994404	124.053190169486	128.030938693369	114.048136176142
	122.238996815745	127.473812381059	152.129092774005	132.762755202326
PAX2	127.330523871944	125.563646710294	126.049905221996	127.715766031466
	122.759905480504	123.198873421356	123.777133327569	123.453048609213
	119.915330116696	132.387242907281	138.798959235723	127.284885819903
PAX3	119.463337435512	115.305518560239	124.964977322158	126.877293296185
	126.609398779757	119.472410874778	124.777895136212	118.909153405102
	119.480037559953	128.140333650496	134.788450164055	125.386545354096
PAX4	117.546508214236	114.841964705981	119.198789189881	112.565341690522
	118.838332117453	119.119693776276	113.222264855561	118.988269692812
	123.24533179875	118.289405191861	139.739448838436	109.91537150286

PAX5	121.957155610892	109.209241676429	106.982655360194	117.131720092783
	108.655415285806	106.551076380988	114.161540771427	122.018200592563
	107.260023460914	109.635825046436	112.629266772219	109.770126492743
PAX6	139.086498524774	126.66432941518	140.74208906156	128.060612106762
	147.991572632747	143.365976841902	148.038291195414	126.515480612924
	130.712515995658	150.442821494908	147.082068348591	125.822346524903
PAX7	114.378420394004	140.110258415883	143.444109491884	143.73525260312
	134.4811029314	133.040952285855	149.952762225731	128.957236136715
	135.596007994731	150.188128594079	158.06915048955	141.37694311902
PAX8	125.642282323003	127.771225410866	129.854478528455	132.972698450394
	123.051777473512	125.765399556488	124.491884305455	132.461730873857
	130.509415570889	120.887938517877	142.261639670072	203.586310608403
PAX9	133.074027423549	126.499257771192	133.611588728019	125.386545354096
	140.336479395866	134.750046135498	134.968848574511	167.430767074847
	127.287538993899	158.882535865069	164.103306492559	134.122776198036
PAXIP1	255.74096237558	246.428746807313	313.412131722189	
	220.959843573708	334.316711893654	383.626469817252	382.401290201025
	506.562512021352	376.124744806171	340.239348689005	293.794745907663
	505.83860711693			
PBEF1	141.064086298948	165.411052799773	162.834961996238	162.565576110247
	147.93442757931	148.541832125061	151.885992695789	152.68344738009
	158.179586948369	141.216869032251	137.823152565933	136.404742774017
PBK	123.375592272781	110.014935095391	109.506450285923	116.621735695217
	279.969975697164	315.014639682046	203.370353613423	209.74583569369
	281.341452463344	248.594000664466	174.909258852845	339.98018551524
PBLD	130.770335966929	144.273011517032	148.100508271232	130.792692240592
	128.5581535393	131.750053934548	134.860896462638	141.450800126786
	144.715167331434	126.580227722115	148.275939659102	143.074187168031
PBOV1	142.703116372162	141.236939351298	136.037555727438	141.246352591355
	139.703304553486	142.95001632948	141.636604735133	136.916286605302
	129.3513576591	146.654925456132	138.4303531022	136.244995503799
PBRM1	173.056715623574	157.280532261425	180.941090529551	158.767439363085
	191.861598059182	197.740912476527	197.699100346967	187.196424491482
	193.98814423456	213.484986945295	196.880135762817	204.35801867216
PBX1	411.505580458401	471.720496000839	336.380724981693	616.339439383796
	426.548994267836	181.898985277176	201.059635671301	162.595632367022
	177.123497519231	151.113342302947	252.810636571566	230.161369375718
PBX2	450.851711160136	579.318912497928	392.004079531068	719.628501451187
	259.025042304848	242.5085895186	402.564148020948	253.538171006307
	258.998065427002	272.712242893937	694.288215755716	427.452114719877
PBX3	1871.91894530722	1442.11349373764	1881.90353127141	1827.03179366146
	270.973600107882	336.70893120135	357.928880740814	479.138177792954
	546.274050902567	774.774214696342	292.640251411131	429.268202514543
PBX4	172.677083810424	165.277935422113	156.68541512214	154.856345114916
	225.664432111551	298.776176246196	257.372740535895	346.566241319814
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PBXIP1	292.60467054075	335.389274425025	313.641656294638	
	371.369895979832	168.657830209313	143.071933285651	169.999692055871
	176.176392369178	142.728311130348	140.572442284673	321.524921332256
	140.770705453805			
PC	147.70836747108	137.15288362126	148.723165059122	152.435416154284
	213.791379190359	165.74458564887	160.399059317919	136.040524807653
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PCA3	111.765812595638	102.094370876743	120.447140228396	122.373400988227
	129.203236898198	113.315182274675	139.383528389668	106.876902604214
	110.437728036347	110.273174147374	108.768730405582	127.646032547296
PCAF	157.792868983503	155.104697146664	147.93088503956	128.085732447084
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238.617228632505 338.026161865853 331.251075774227 382.960724128105
323.149792143481 181.425012248539 451.317592236192 398.423396126075
PCGEM1 130.293492553638 134.243435358729 125.199837162105
120.501697624977 126.464893786922 134.241917425247 123.267817390796

	122.418378964982	131.943014970855	121.747622617011	128.194171809998
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PCGF1	239.079352337243	272.277433294605	233.272000923172	252.404931238338
	336.70893120135	332.138346958671	322.889296658955	284.473085899219
	231.372316734945	312.705458415152	281.53843450593	265.068532248682
PCGF2	401.359711029934	465.54817048856	378.728516779744	403.657727266403
	397.449905380349	421.690849282483	436.222568287601	309.229066204308
	380.393153331219	264.685862877779	486.047284379068	438.870464403215
PCGF3	169.147351642004	148.082026641671	180.63469438043	146.110545700163
	153.263883774915	160.923897048848	172.667770359278	166.027988561421
	153.711354087243	148.96493117884	179.57046217355	190.331589656379
PCGF5	150.088034336851	150.204636832734	149.327794670124	135.835518477299
	135.738699497293	128.858923585925	145.022242996923	135.613240463445
	162.002221893617	130.166741978483	141.056924917269	140.044536042073
PCGF6	211.208937901871	210.77489002666	258.868119227979	199.516043142784
	188.079188251085	287.593221911064	223.601312199935	234.041863839123
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	793.071192619058	2355.29862638453	1516.97921112926	1958.96627327952
	1825.10168716051	1288.3346537369	1030.56836625083	2508.50428529255
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	305.200911653347	155.064761390765	148.590732065459	145.612695657243
	146.910471989835	130.355969431473	155.76860362365	138.289361041588
PCK1	143.452992974333	132.920775987309	137.212568398657	164.763269377973
	143.941358917251	145.360466216324	147.86104992164	153.738794649373
	146.050714008913	142.143709425075	124.869732867761	147.270369342438
PCK2	176.198555355383	174.461487057542	160.493314658788	156.385100395531
	741.255013151687	217.094085829328	285.102778078056	294.48534582475
	258.109876262342	224.67853219142	257.573614085223	357.672950588403
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	359.024299091145	127.209043595332	128.207440197765	127.55397077248
	130.005909892804	131.164778405297	133.311212623667	123.678365506247
PCM1	1042.40539020413	1005.62130301653	1116.19403476786	878.520681466946
	386.738154577763	601.640387246951	782.139151423572	577.98969050409
	653.749043828462	740.527607312565	1058.55850972326	782.746481112316
PCMT1	2748.51360874099	2720.83642320419	3177.80599774525	3078.76695443407
	1267.5716872154	1485.776977235	1417.76295714364	1293.70593826709
	1435.4236709581	1455.75693295732	1178.83933381069	1447.07989164988
PCMTD1	1291.12004949379	1410.58825009446	1534.21175984308	
	1139.14730341921	449.745016106912	556.863361789449	1138.44837250274
	756.246712133116	1190.62010668045	662.213423011533	1197.58205444449
	636.048536814356			
PCMTD2	310.142754559096	280.749681050778	375.651196211048	
	266.652805624826	319.768792196774	1186.23169583595	802.643357549193
	373.452370692334	463.754869412768	298.706655333472	516.177596584059
	474.14051635531			
PCNA	208.406980186223	232.986366625889	212.959246855759	184.709768457405
	834.537908087672	855.112210714686	383.259887828605	686.923164688096
	753.654626233604	604.047164856689	469.333357789149	667.421612441201
PCNP	1754.99663827472	1724.22121078776	2337.64145466514	1247.02514044778
	1093.21579738952	1630.1630053946	1931.16906839143	1452.63736288691
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PCNT	588.863382995875	558.810095726517	691.397238677552	724.607317443904
	300.985037429772	592.079898463345	449.745016106912	668.570984110088
	805.600599570258	526.285114043212	423.826189747546	589.070196307574
PCNX	501.600329334497	513.036729214095	507.56875910742	515.729905361375
	405.975221091252	302.381946749711	555.366765340014	469.540421642173
	416.715760038095	502.063888359427	389.381039495553	430.649188209901
PCNXL2	161.525131363333	169.012926546641	153.738794649373	
	161.241165533091	140.167274633872	144.998415908498	138.301397056664
	158.455783755247	147.454902803231	193.569894919176	153.846723846716
	168.223865801948			
PCNXL3	277.501071684448	385.238961394234	250.376178742476	
	434.176007498693	1206.59866455529	390.809169896009	302.945860276233
	308.031816782343	274.736124442229	298.827660296715	373.361263985383
	347.3483417873			
PCOLCE	801.52891824571	567.465201338735	409.691865300362	
	889.054356462993	273.911741951291	201.105520537151	219.537335167901
	253.601378730911	338.665115108128	718.670564185576	217.940575516933
	251.324685584062			
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	1936.88813111969	174.953232190285	130.753266976637	154.236652966294
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	138.188522429661			
PCOTH	136.993102884269	133.320865155329	139.054140295282	144.669509071181
	138.829793136954	137.778033050658	127.605805815475	132.22974656114
	146.069543494352	133.97321873161	147.829502959865	134.801507994667
PCP2	109.574386044714	119.192893408873	116.514299377365	109.932577444858
	114.85602874727	117.467618148107	134.73970457131	119.044902525459
	125.908576249439	121.505178996279	131.816989019024	113.886420801388
PCP4	11392.4189359453	9970.08052783908	12968.2945749	16328.5991894287
	124.652072110334	136.028011201077	123.427366316096	117.77708734157
	148.574661934068	114.226028611171	123.09149124559	133.594446233378
PCP4L1	145.835240952992	129.400895994387	151.679534447228	
	150.275163835924	140.671406418004	135.393901125889	223.872330412144
	142.848438163322	165.048922660581	151.034392433934	181.813812621767
	148.551340840517			
PCSK1	129.982236484842	143.129945647647	142.621019060798	127.687299576139
	127.622397233692	127.665162524824	136.739754726714	137.76307316083
	137.132095345234	133.329392986316	142.558109812638	140.36602776806
PCSK1N	154.607214750531	141.950778601653	151.869928694006	
	176.328994356625	173.204163917896	175.9219991997	149.277880094957
	154.894196413558	137.410687900298	208.067404132325	139.765361891899
	171.121834829333			
PCSK2	129.692578787988	124.791221329502	119.466200987489	119.360478719424
	124.731056918418	116.092815232176	114.942849575931	122.476178620771
	111.086170834553	111.72835538405	116.14662237541	118.636694749194
PCSK4	152.397984799517	148.382228428693	142.843882404269	178.096998157452
	148.497497694754	159.895303363094	154.750512277909	159.801315111886
	135.48250324478	157.863585655333	148.684855678535	160.53152291979
PCSK5	892.515788744891	617.474181543858	518.17401959981	547.681206272188
	173.044636575826	174.832495287192	170.12010526854	187.625536724681
	213.634295832535	248.403014089812	149.907472831817	157.269049853539
PCSK6	135.43119649883	130.37185420347	132.332128706656	127.787016137049
	166.341564850299	132.6175371563	128.297879410629	133.998381302146
	142.142633050256	138.044751228397	140.296609941747	140.774304412579

PCSK7	413.863345223345	409.073045356073	439.852826905352	469.407481002198
	601.997464467917	359.935451429371	343.946831770916	373.925939492544
	400.676876982655	332.798130757632	453.17378995737	487.901310664037
PCSK9	133.43362126395	139.986119754908	125.666013736767	133.180554954396
	139.625635881693	127.249679674312	133.742490937191	133.717451195844
	128.402511355513	277.501071684448	136.231747456996	124.256773437346
PCTK1	128.504026473695	120.691810909148	134.531334130512	130.201635099678
	130.898067924686	132.094446606227	128.87498876738	135.764392116216
	137.976533193418	131.412979573687	129.828896822571	132.085538520551
PCTK2	177.235586767256	165.009696356892	147.196687432745	159.331110936668
	167.604959895451	161.640122360448	154.150568177135	158.292581724934
	155.780657091484	166.825501664231	159.230636380063	160.186527465164
PCTK3	127.093255830978	127.26820735867	122.662260070778	124.210840121525
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	138.319321806028	151.645636946799	168.166938045454	176.802886129341
PCTP	182.588697551677	180.549865708041	164.274491958161	183.85837324585
	237.396466740419	275.39986964837	280.414161197286	426.649095732979
	343.346755862776	230.770036998466	183.879114762264	285.402072939954
PCYOX1	1301.18893681695	1217.29687282094	1445.72064343302	
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	938.049312229961	522.77407098992	966.281849197568	794.636255515909
	564.948126039762			
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	210.103974340881	214.824908522393	168.248982292489	244.162496497466
	217.748916080172	190.754349388901	215.219246394594	207.940596890723
	173.063002566542			
PCYT1A	119.787925356307	133.762141373091	118.379914726645	
	134.678445085174	132.820927638053	136.249621724093	135.192181609947
	124.375348764151	128.486896700405	147.558603709566	160.970946091146
	126.928328902507			
PCYT1B	139.963969716386	121.926377140115	137.093170378295	
	141.550553034455	125.803854387512	149.714982846365	142.37457375182
	159.918778562802	137.324247703318	139.805930686563	128.102787239877
	163.175801793143			
PCYT2	201.383739902873	209.785886171295	246.552713031445	232.845268785472
	287.889774984754	228.349507726225	330.457534783492	279.000687630846
	194.014764659513	266.286483421453	230.546762514966	268.724338967108
PDAP1	142.112120308118	134.194555223935	141.596078062845	134.27783583528
	132.20764558027	140.167274633872	178.966169998125	147.955701866515
	146.652641667543	127.515913913403	125.253637835638	148.04206955657
PDC	137.950955473086	139.010652831798	140.746062850603	135.665577776938
	139.418394104487	146.033591220134	136.181791404331	133.757741295765
	134.606126134531	137.48217464385	138.596430973865	153.271518348258
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	118.951526834915	118.034262386827	123.591078216224	124.602474178438
	139.537865511933	114.906396746556	150.51056917809	110.113844434493
PDCD10	227.483999162038	205.362816362477	261.671277686467	
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	375.316610221279	390.098830270926	519.27448770158	438.611973005212
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	132.987389721592	143.670804863501	155.164238647284	143.239666389592
	159.646538408414	157.702540365469	168.643026828823	180.814610631281
	164.87433908877			

PDCD1LG2	99.0767996209245	105.606964521964	108.226917034591	
	102.786517901308	105.164790181452	100.637271902591	109.425878885118
	110.910693353871	104.633603136988	105.221735747452	107.828378413233
	100.216750525986			
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	526.896146537814	404.876478833713	592.387650564803	468.569725051459
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PDCD2L	180.578528984075	188.941900997781	189.450316943845	
	197.938447651153	446.262895953004	334.857690525582	270.894153548841
	357.140791982825	442.86942574917	237.601064742453	205.52620827767
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	487.19625805337	1775.32632165475	1147.33034082693	1701.43479420427
	1284.19937294949	1067.80176606977	2023.92614092273	1183.1601379136
PDCD5	573.509780150018	551.823767223086	616.188923504376	569.47446215213
	813.034056288861	1249.89496565284	975.315904185938	1107.99131702522
	1383.68977267418	1251.15912264225	631.106334754678	778.28014337938
PDCD6	1061.79595707572	1120.87534972745	1083.26599217847	945.403379196643
	2748.51360874099	3140.51157972795	3504.77617298452	4875.22637286719
	2684.69013589621	2028.67873136046	1830.56003081769	3042.88425356552
PDCD6IP	380.754569467715	365.441289363381	435.332573825425	
	321.696082249696	197.827534617557	430.94199035855	327.251620296271
	344.737964092526	286.310923582432	375.316610221279	396.212732639272
	351.188086838653			
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	9759.87403504619	16642.71853486	11647.9643290124	14651.3379687477
	16123.3486890049	11150.5512437377	6601.004284244	14228.7550296952
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	183.251257770829	207.453490385508	169.301498852556	200.443940449586
	166.944701842349	285.05846406041	248.085349787686	215.506175859782
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	119.802832736435	134.553754121862	134.712935556892	126.214166842097
	129.374418059091	131.447941902406	125.435268901131	133.88072491369
PDCL3	790.790236361922	741.689442253375	1415.67109281133	793.071192619058
	510.555184032017	925.205399154409	594.180861801958	707.404709303506
	550.671679318681	551.086785904249	558.934004505074	753.007562127186
PDDC1	247.504198063293	252.432175363972	228.588693548447	329.263397240111
	248.993716339029	191.207048581306	204.283030911897	160.43939815269
	218.70412656621	222.526610842047	290.638110977807	229.017256104437
PDE10A	148.567630572897	154.146962684738	138.370241517025	
	159.832405510505	143.760519659724	150.660106369128	142.607578275494
	138.223001481672	138.586620636835	140.101511236793	138.56436658053
	178.304914997023			
PDE11A	116.969799327195	118.764650384561	117.279162323013	
	121.591962855513	117.356389952799	119.062611098235	116.889373249017
	117.335748689217	116.268259618103	117.028963434266	126.980375035189
	119.01559016005			
PDE12	236.676029292922	196.638594797353	201.123529130035	201.893722965557
	337.652945958921	338.739180103373	288.631429069336	231.600532144945
	272.994195639694	250.911817769829	163.529157756197	316.165926273381
PDE1A	304.479999301061	316.165926273381	307.945884504629	381.57978490093
	130.985360700521	140.992801405088	123.235136639469	135.261561433405
	149.661929885679	135.283742166077	142.01454627498	128.597272557033

PDE1B	235.822266856967	249.400820221233	239.050379187643	344.604699562938
	162.233096422572	121.653754668804	139.535490288426	132.324630056168
	129.603952706231	135.310766630401	140.768926302035	163.521095869383
PDE1C	186.653791045656	185.027902485379	185.661496988658	194.941454173896
	140.611071681667	154.340042518983	139.59941545613	157.049773524382
	155.072752529178	132.186120302011	152.035992124554	154.657316209848
PDE2A	242.410260751835	301.188296465202	220.113261580385	390.897464546943
	111.62514398781	130.420753247797	112.742895297124	128.191959554459
	103.448244268961	117.227635924674	123.527903217158	124.96926662367
PDE3A	119.034003473459	119.172965618216	116.221426977629	117.523834738903
	108.631224817901	109.635825046436	117.965208293925	116.456170659686
	111.020070405368	116.214857935694	118.909153405102	105.096927149239
PDE3B	234.925852373127	184.694741621812	237.078644686891	165.844762875582
	139.038389244329	137.788504385206	127.159947766922	189.205724390913
	153.162313098346	128.806964077824	151.364528898537	122.793816135585
PDE4A	194.430896269275	203.389294254141	173.147311624838	184.111756696658
	157.967824935915	161.581641777014	177.415756020166	173.573412346985
	201.507971833902	202.927700504034	209.702683803624	177.666582096539
PDE4B	174.332913952768	181.500222423634	157.134782748175	194.337080066417
	122.297401003756	126.381288663037	132.283682066898	129.568951363607
	155.91493956251	140.724541696229	136.244995503799	132.891375982227
PDE4C	12283.9915232122	11874.9808592281	11741.7473778842	11598.65499235
	3618.9385126441	13360.9483836861	6944.90824302953	11235.4970815873
	9994.54490550759	6571.35528952186	7122.07276863122	8812.91092406563
PDE4D	330.505633088656	292.28857006885	654.52788411248	230.91747428831
	115.80656409185	190.506201184419	165.092451754065	194.029961195972
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	140.574129695953	138.371873773284	148.045391886623	126.100454068838
	133.486965108303	136.511669406292	135.364039983762	137.808307749725
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	144.404405100009	155.164238647284	131.185836673529	169.527424356913
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	240.224826736571	212.915949933033	244.897869154624	208.793650722271
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	801.702878226247	1061.79595707572	1235.02626456572	1035.98574557331
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	139.825088162247	134.415163103911	127.336648342283	143.325710305008
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	1121.87292339787	1828.66165670455	1788.35884039549	1605.2454230722
	2505.8565544797	2048.13524244516	1436.577717111084	2527.99279063127
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	325.907037744936	285.402072939954	297.285037835812	385.050282185255
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PDIA2	137.690514322424	132.575354250047	128.883828419932	123.271452939936
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	129.167602517633	121.519309043513	128.351235762192	128.069504716124
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	118.863150637476	124.530660958725	129.3513576591	130.624702758052
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	473.370240289761	471.816954259146	484.480643763982	518.760142491104
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	355.048838683854	252.365946808078	253.580286414227	232.641965649602
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	538.872348151809	665.936368667321	375.131728190867	976.782815449208
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	178.563665283267	253.833756857339	486.047284379068	318.297819854586
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	109.342230674869	116.087696503753	115.427201752401	117.552229262461
PDK1	139.871928127715	131.095431530473	140.644800545854	115.435942397626
	126.980375035189	183.294526267593	158.975786937923	133.192757350144
	137.729777643977	139.174188535843	181.425012248539	140.750004067571
PDK2	201.954167006591	229.62164568989	234.947745514175	255.839878446312
	193.412827246366	172.355215322173	157.919709478746	177.393812005949
	156.863232221623	132.971844952199	170.298291784762	147.302953100995
PDK3	146.635140441079	158.594064857041	209.623583937962	213.914599384797
	461.482735533799	239.363511706064	291.167223094542	443.964363178742
	209.913460781088	291.883157643902	212.050953977485	170.410704499804
PDK4	636.781477235579	1077.95929298567	2321.41228376157	431.182384100794
	188.0434100445	706.759905439674	229.805500520256	634.356322976353
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PDLIM1	727.814681346494	720.214044399108	500.643499051523	
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	902.089561157715	1347.10650016064	1123.93087912174	3321.1350545346
	2159.2992548378			
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	117.178495957357	116.161473967382	114.658668711121	116.126923911804
	109.182623414389	107.049865500702	118.963119420175	117.093818506721
	110.325803953516			
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	3930.2841381915	153.295838391099	234.814109965002	163.899808733609
	218.644953001365	284.438411011954	441.578261054602	157.322594990954
	168.116928722035			
PDLIM4	179.950904921667	205.705962405954	152.710827148511	
	265.068532248682	107.395559299582	96.8261937365062	115.907902010701
	116.316845829267	101.316813921703	117.467618148107	110.624328647003
	104.483909687253			

PDLIM5	335.3366819308	231.0814970959	390.194764817385	
	218.644953001365	140.155861157819	236.772907994543	190.993590849624
	168.04198447141	164.571974509529	216.783051958345	197.651165059354
	208.045210163121			
PDLIM7	335.623336587396	378.037190077449	347.866264631778	
	662.373189001788	281.926552464214	140.101511236793	146.826292449698
	151.976432805924	161.764411756848	237.961826989344	160.449911844008
	168.942165573542			
PDP2	159.765585531442	158.232100962615	173.563363508314	160.379168489216
	144.6567095695	152.331011756244	152.461930328923	144.570725886413
	167.532512839891	170.661808797506	152.296774123599	157.216793735479
PDPK1	209.33028918341	206.876572583814	214.434355263652	230.332652534446
	224.497348027469	198.338416756432	213.914599384797	233.635876830148
	202.797135825668	215.094633380547	249.400820221233	218.70412656621
PDPN	570.26564132238	504.838017072725	175.819983804497	195.256498208339
	154.493246900289	242.902900881585	159.58125728432	273.61337724143
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	384.16579891756	318.196134631178	356.268960813032	274.179232297038
PDRG1	254.768537214795	285.402072939954	303.300028849873	326.525579400607
	353.621264641814	476.168679880357	536.805979562807	373.545629693667
	445.214621023114	354.132752995385	260.356834114611	292.693830444839
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PDS5B	369.070376276471	328.730722366546	334.350011399462	293.281098275134
	215.866644799363	265.61506544085	174.749832388791	192.009562635198
	189.192494970145	192.827534610486	201.256649338315	254.447650810819
PDSS1	181.022635001204	185.31769184805	238.770586150777	199.746775121317
	248.761038207278	350.803378042804	225.142823691625	269.726397478364
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PDSS2	386.738154577763	414.200068430184	407.875393458322	567.715714233608
	289.001004912528	331.383533814347	569.353661326724	400.550044186372
	372.594990024312	394.414934831535	554.282040414368	391.782120640025
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	116.695313319162	137.138266859156	136.995866452787	126.890841187249
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	1975.83062789692	1473.70433292382	933.408902924063	1364.83036157729
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	153.070664298267	150.168496148941	197.169703621888	176.704617691988
	136.942583515174	154.256214901103	153.145176413765	209.130260450131
	183.033044475752			
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	2271.82656399253	1383.68977267418	1890.86868383409	2544.58522979036
	3391.3005983725	1297.25632532536	2620.17683549005	642.647554580301
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	1230.00744483191	483.699436940387	331.383533814347	444.374521095495
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	118.56332995149	134.403789206552	129.368045611894	127.930072902878
	124.70219935334	126.88066987372	131.519455635415	137.982667022604
PDZD3	128.312170913496	129.743808480368	129.779076484273	157.186747372076
	157.237147919803	137.914673796317	133.290168428696	221.093229309411
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PDZD4	367.327273578513	323.896313343796	305.343879847672	396.04031733841
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	128.533900744619	136.03117924052	139.265915951162	146.911611554283
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PEA15	4073.21075791737	4061.24537355697	3062.22499714914	5825.9968524214
	2236.73950603157	1883.74008471233	1155.4487861163	2187.3010896903
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PEAR1	181.036375971015	197.815264620906	144.752418965039	228.270158363878
	128.739880189022	129.208429861964	120.456817031716	139.186416741431
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PEBP1	4323.76731419005	4503.01240138314	4103.06565237121	3862.57980488881
	6877.52553567598	4956.21683075884	3301.98381607571	2662.43181510326
	7601.58151657937	1317.1258783404	3608.10730106542	1939.1525084845

PEBP4	113.311132067152	125.315736755156	127.077668562103	116.977202125093
	119.399971165857	120.193580405229	130.300169316346	123.066317285283
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PECAM1	504.9864660689	593.990687449346	444.479355480138	
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	492.377642058095	853.314313182949	315.306271141071	292.068293167526
	240.07282016658			
PECI	516.177596584059	442.334886941795	565.843200661721	451.887564294551
	213.584269089596	318.971509860209	440.495339027491	241.599271777806
	243.501083338279	539.27766384282	269.927694984528	252.197271817794
PECR	207.940596890723	167.811412309356	234.28146549561	166.485040297098
	140.427188241455	139.067516394141	168.790464803746	147.382177739631
	312.961981998512	199.776140037612	132.645196037302	130.37185420347
PEF1	598.449359425056	541.764013317002	484.480643763982	690.582550537485
	599.208370337812	411.359106929985	372.689712716797	362.849380477089
	314.063025950327	396.459213999636	339.448524400708	330.944203807675
PEG10	212.996456841785	199.477350542491	225.61275910008	205.322733011516
	136.201103852785	170.54511631708	150.122035262873	166.89884215297
	133.74741832303	137.575688681319	125.345611085082	162.208028489943
PEG3	887.147199303294	858.020739710943	663.451243037105	675.596864001032
	161.142723532061	176.088449983147	167.811412309356	173.09379121032
	213.178648382852	163.753434774656	123.777133327569	170.951009118578
PEG3AS	135.776154891006	120.773552653073	126.025161261042	
	135.200049257744	119.984301761327	123.233267210406	130.751522895053
	127.302714624905	121.628827418997	121.476730561812	122.749182465923
	141.70844587896			
PELI1	231.670761847089	221.82340413039	192.932285494022	199.275716402358
	190.255797389524	475.927798702033	279.232290927348	333.349203784021
	332.032371697186	458.782864873657	267.372241661758	259.511314588868
PELI2	468.339735327273	426.032234135861	986.004777675332	428.237210115667
	176.995049477843	228.414049417352	177.16711492983	170.692146255416
	128.72727523654	172.46311371589	136.948039394935	143.616189776965
PELI3	202.927700504034	221.796935051107	256.820546409632	303.005912224195
	233.161848094769	122.955724972547	139.843416673512	128.287127680554
	120.333487171575	134.968848574511	151.382199195953	123.960761343425
PELO	924.312051919404	940.716682221364	1101.66868138797	1119.23362648056
	586.246004571452	439.122658719747	695.595965352335	891.637685856145
	630.176145684641	923.383014892221	414.888512708716	741.689442253375
PELP1	427.345809255426	510.555184032017	390.284689962661	744.808064061459
	653.264945856916	400.353795948162	300.675907594637	365.650071660806
	270.490971664802	325.570839576032	285.594100976705	309.318403417731
PEMT	197.775397831129	208.14618424983	188.335102005839	226.871028543248
	291.313681141442	314.182403961681	206.669783013221	212.591357254196
	190.255797389524	263.005303710717	234.814109965002	231.769926214655
PENK	155.734509841719	183.447807651728	162.876684781936	194.702974020747
	147.919058170753	169.975329631607	152.545261723881	156.843997723699
	154.016622581204	160.932913244423	150.837717923505	155.249688219254
PEPD	941.936830901588	946.640841062802	1025.27246494218	1066.25208226214
	2086.15449885278	983.094485868275	1002.44383771056	797.28465621772
	1552.69879081022	861.516925304722	700.353187874339	860.688314783077
PER1	176.66175597182	246.533813165981	157.745805838008	180.047231265069
	126.501648842366	117.408465686218	106.000943456483	112.332130647215
	116.382348831504	140.837360719964	136.241569739318	124.124076599417

PER2	459.171226689178	548.686094748117	388.326080754063	559.668195903429
	228.45211887819	227.177100762395	235.291035302211	216.485113690708
	184.832531598928	225.890195278753	260.746952459282	286.085833802132
PER3	441.331937921872	561.379619105609	509.400965222318	798.389385197471
	192.046442148183	223.042575796603	176.587559615019	179.191401472241
	176.890596690798	275.252966071473	188.033890834418	159.845890841215
PER4	123.45956380046	110.977904932371	127.581332110857	136.826606228323
	130.619624347751	124.869732867761	145.909456876796	124.811760828557
	120.679474100322	131.144774362059	110.774802298005	145.122171099946
PERP	797.28465621772	890.507257588957	1002.44383771056	367.382105696814
	2217.82628612929	1702.68441407727	4811.88424516272	2360.87760349888
	1683.83803339436	11190.1778174002	4491.96934862425	4486.35687688252
PES1	218.334273320319	225.702629835215	271.287767448621	270.679613997675
	440.203336761263	337.585502787016	293.12968694683	254.315783394932
	316.955298948771	275.437030326768	311.375563161772	280.246711704036
PET112L	274.281532397691	302.408563830315	354.132752995385	
	436.482580413523	178.027417594263	256.394563537658	389.686045618228
	271.791126011275	332.666916002481	390.897464546943	324.79327985156
	371.552970811499			
PEX1	193.261343922604	173.035013611377	267.285998701386	178.329946332806
	198.701991021316	281.926552464214	285.258824662946	279.834616502591
	254.63506290698	203.004815689972	226.35854874278	236.427507270325
PEX10	123.031945101045	130.814702312493	130.031303483631	126.455271988029
	191.554396977588	137.901317305531	172.657668514226	143.683545371898
	142.414323129638	143.140502042489	154.558968826495	136.211694310501
PEX11A	230.332652534446	239.924227955313	226.055406842613	
	219.78041403077	305.669636871734	206.098534554876	297.176755638159
	353.774297577869	215.194909819764	214.175691239597	245.399847987183
	177.438968923426			
PEX11B	580.347496467173	622.348802511009	826.08372791138	
	602.703887178113	670.097523566652	856.039380523678	917.646958427824
	912.878077940014	632.278924237678	905.233241047678	1218.05434595121
	1651.68171717875			
PEX11G	195.160353691349	233.232319881243	261.922485502971	
	269.100400678077	447.372026268156	267.589020526148	308.974786799114
	292.693830444839	237.216435972201	239.050379187643	262.913054904154
	311.544429285897			
PEX12	132.865704994046	129.263794008537	131.841436867483	128.640202262896
	130.344292132363	134.517774302213	128.044165393924	136.480458837869
	135.484360570738	137.945878061978	141.830432745537	127.760995691556
PEX13	162.689415085423	165.232545721733	144.627784383455	142.180927190578
	277.285526811736	226.458509834965	229.74418058711	268.454310218604
	206.571433405844	204.999796322451	183.894417745549	215.40037757604
PEX14	830.684999498776	896.625415670455	604.687265229902	1197.00004043747
	429.680602294138	241.134385745554	273.252023367028	197.12840030662
	244.054469051058	225.480366837274	235.76573393374	240.341031437493
PEX16	271.945851739635	267.901632267999	274.427235605909	299.935166870211
	455.778776920897	320.097510212422	588.678767007017	350.58427958432
	317.550000625189	406.133430120039	327.010503005631	302.847274046748
PEX19	443.444024128516	435.183433729519	435.48544637769	375.651196211048
	464.436380568216	741.875751347917	505.560841055884	787.425941491281
	564.749082802433	403.720036930931	636.048536814356	804.800251415824

PEX26	144.283716416188	154.688685142904	138.117916412819	137.563246867433
	152.356731704094	145.210787864362	136.841506794489	148.486946087388
	137.125637347852	142.52234368939	176.420075374686	156.830156083795
PEX3	117.172431931323	118.195512252508	110.735199684144	121.286130275542
	118.855500322915	112.565341690522	118.355532305846	115.884253217495
	105.925737068775	120.13937451914	144.898770838913	121.371348717752
PEX5	1510.77099418802	1545.71251527145	1630.1630053946	1605.2454230722
	1337.38160266788	944.47112348734	1158.057104827	1283.68791110988
	1325.77498031227	970.166036472486	1084.10984365393	922.877217016704
PEX5L	166.027988561421	149.927773276383	141.898948675823	146.722211039754
	145.206796089128	160.211460008777	159.245344068037	148.501654210579
	149.516743790585	163.331424612891	141.592180897595	173.334154083555
PEX6	291.50783830983	336.434368527549	185.128661141884	425.348619281876
	445.348044448953	147.340106879021	179.753400474369	301.591430919567
	342.315456386729	166.376907377447	376.007938436483	259.672238210968
PEX7	224.118739978257	267.451611731669	314.610979086485	269.448201975645
	344.856199123543	232.918330930051	460.408628542721	351.337287690674
	329.604568691377	356.921627358141	267.222762759781	424.665056900526
PF4	146.141376139915	132.070137735026	128.753623886188	141.811563725942
	133.918638123756	134.579005092929	147.433388299999	144.4421922847
	121.580726825432	131.832311911703	128.069504716124	142.02866433901
PF4V1	128.601885372662	115.778736387131	119.480037559953	118.148476979319
	109.625579596864	131.613738869093	126.868970616955	113.886420801388
	138.798959235723	117.104945989023	142.13191463827	133.666244052469
PFAAP5	489.260272645085	402.866491417369	428.340060893467	
	398.892968579918	210.5689532432	602.141151173094	527.294087043601
	364.113665301598	488.884511065882	245.640193659159	647.439372562271
	552.167699318911			
PFAS	265.992741398183	274.974304050999	235.680462167404	301.591430919567
	502.598518192729	299.106362530855	226.701637237203	438.611973005212
	343.048904374136	284.473085899219	317.904396212359	253.833756857339
PFDN1	490.849163737598	549.692164962653	596.246316033079	761.586663689579
	359.363523948825	442.698000781597	540.797164107185	454.235121917464
	380.821355948507	739.52947559669	315.411701623527	455.778776920897
PFDN2	207.104548555929	143.546629073997	188.878770168595	197.443711199904
	195.141733146452	180.902950045351	167.751604259111	158.726115143818
	154.207656926108	209.596792486876	207.890408761692	204.802810257516
PFDN4	157.878110410517	173.766372029062	139.289968250444	155.119146797226
	261.775269058607	193.148369507405	250.376178742476	143.101750222256
	162.827112132145	131.534097198718	173.353648927895	130.637567221512
PFDN5	7902.9189607838	7930.82679738435	7371.9761952537	6441.13602696535
	4548.5418978622	6571.35528952186	7190.89891723932	6737.97308530049
	5702.11995823367	5213.40342339233	5410.50736002544	6271.34208268488
PFDN6	359.935451429371	252.761035334279	345.686640885419	251.939696394174
	406.224345292389	385.317560758502	375.651196211048	328.269845211173
	318.971509860209	397.387054218873	305.669636871734	439.33566689752
PFKFB1	118.863150637476	123.964042357475	121.341177395499	
	127.6516565653	132.28010415054	112.922918499398	128.097206000942
	125.313515459103	129.245448026213	118.04359489354	132.496547953595
	133.984078167807			
PFKFB2	161.877378749103	155.960886801091	168.73918684069	
	161.569793476847	155.061749542085	159.913028912492	157.639688257892
	154.291717784335	168.027892518772	175.428000742222	155.507030276749
	164.748676009072			

PFKFB3	479.983368253935	538.369868115137	413.172954892025	
	469.107624227456	764.774225930479	405.032674307193	989.77058497525
	701.481003619067	324.713347085998	1152.50523614436	959.126054626181
	565.97975389646			
PFKFB4	187.280334341504	209.596792486876	171.384487293154	
	201.616302398819	1236.56870367797	466.691191261997	1744.58410715956
	409.592855687405	674.742955681908	2099.85702995194	563.779294315901
	546.755305058958			
PFKL	222.526610842047	257.989863290786	208.363905749882	254.447650810819
	663.668537495345	251.324685584062	314.949772661046	289.037033338975
	300.886032768166	357.672950588403	401.840794789616	306.333710880618
PFKM	641.12919339861	699.06539333455	1031.59140059071	747.322544683874
	332.885488115858	270.847923557176	347.147961254829	333.200230327106
	498.180196203245	479.395948662331	228.414049417352	388.782774926005
PFKP	2895.71836177599	2399.88695085752	2882.51330563735	3586.00189997341
	1683.83803339436	713.525134497596	1134.64039256323	869.542306259337
	465.41233536979	1480.52638217173	994.802763887989	1260.50387106816
PFN1	9293.35991367953	11281.201625198	9450.52572756597	15809.9561036761
	14073.4649333964	9219.38828280399	5572.23400804004	9671.66667662331
	8053.22070239424	11017.1478502767	12171.1997841553	11190.1778174002
PFN2	410.002817143111	395.716879127149	560.913732951675	344.379733302418
	879.809795251142	807.92851898782	1132.27988339924	458.607367472574
	410.845034795716	691.205738835917	1692.01248523526	801.52891824571
PFN3	109.859878974527	111.328185454541	109.482330324734	125.063596569451
	125.052770277549	119.112063328364	110.789450948689	108.683531606889
	117.682034050478	108.226917034591	117.513523498725	124.646093292382
PFN4	169.391557085902	166.627372924295	175.101284960252	166.850279817976
	190.489530928259	155.42165869714	164.914114315732	194.092089507551
	156.585665091824	171.180188911669	147.059096208832	165.2958475168
PFTK1	224.008253365957	201.555964610849	219.564603776774	226.203994206714
	133.994376985194	145.289151849318	171.85890372225	163.159571059471
	169.043206258073	186.140970908638	199.70041209487	151.092066533546
PFTK2	123.010614051218	130.01207836961	119.442114850181	121.116206210402
	140.258615682066	129.594440309419	128.449200385351	124.197397333928
	122.158160927149	127.336648342283	117.423704591303	122.863612588759
PGA3	134.66169946771	149.166635189875	137.59017685842	149.944351491364
	146.407692800878	146.728881202697	140.271557921345	141.170937695272
	141.533138525284	141.437891956239	139.13396769999	142.697827839203
PGA4	117.279162323013	116.342242990651	110.496084922302	114.673517800886
	111.66210002202	120.665520347481	105.606964521964	115.440152891339
	118.863150637476	116.134550788966	115.766358387923	109.574386044714
PGA5	122.777544465711	117.178495957357	114.062099086818	117.144778357339
	126.056493244568	117.958297137758	122.621839614189	121.039678049579
	113.913337223716	119.854401979951	131.903632821793	118.731960910224
PGAM1	374.406855727422	326.45984882427	625.544719251096	361.620362526358
	535.861738240441	575.060457772307	1524.46745239811	582.062758687489
	857.55777793754	1733.96382719909	853.535700321202	1660.70040058102
PGAM2	108.167670899938	129.806104966617	119.573635447638	127.772258845875
	117.639216182057	111.992738490468	116.973126196102	108.669141498627
	121.107979534361	109.719356131043	123.463861015933	115.927914533359
PGAM4	386.305638633172	381.625983354158	509.618968665191	392.430873293903
	550.124359517322	474.750156829195	1099.80705776268	454.133372808458
	660.315285709317	1182.50261323518	801.52891824571	1117.77397620221

PGAM5	163.97516075705	157.575902297677	176.714471790643	174.229093061024
	232.083160165968	192.580288063603	197.298982267459	189.419941381565
	222.332748220525	259.472319994929	164.865846124876	198.815448428294
PGAP1	201.349209185128	170.154539416255	195.364709354814	184.900027626401
	150.922279808832	233.997642139328	208.016730103629	215.607567127195
	166.223079895236	200.146843808423	266.964673763497	184.518666956721
PGAP3	358.843277491684	433.82566459288	332.885488115858	537.06835963726
	755.42757464615	497.110852407681	617.474181543858	2601.89405525276
	586.246004571452	383.10686624119	505.143815448613	523.306451464643
PGBD1	197.762169504041	173.315097944835	170.179304745674	190.018871923219
	152.488480322526	174.332913952768	157.675974692761	127.816596414779
	145.463105638655	165.491193869938	130.226993687215	137.908991199407
PGBD2	154.096542063701	165.781667492391	182.397795261147	157.692519370734
	165.890492422031	203.004815689972	205.244843885276	254.552034511333
	171.042491047256	179.525651423361	184.473198008234	194.413759761549
PGBD3	166.850279817976	159.68134949161	153.920180168328	130.661695937728
	170.4583554058	170.223509007961	165.307808075027	150.623182458747
	153.481752643937	169.022351348819	179.241385747152	159.097020087275
PGBD4	137.445344116574	129.501028506432	143.501380161409	140.423711213355
	126.693235227579	128.756818133357	147.309245779031	141.218832234405
	129.289216846128	141.703410265546	158.937341335707	140.701132362458
PGBD5	122.053867525393	117.930665298163	118.161192318422	114.512028664352
	173.959556466614	122.917915232153	147.479390172796	110.355493122568
	132.692027897739	131.516100334597	123.21112178671	115.664551127497
PGC	153.154592981962	135.15791174418	156.411563412665	150.592269931732
	147.585987099202	156.994265858123	149.783542909965	140.968351978909
	154.947359473187	139.987681290389	131.732416355002	158.517778100137
PGCP	973.543357809971	748.015452242839	810.396770151757	633.594811068524
	213.556015518863	295.047418816148	451.718912714608	265.572253407219
	259.767151797583	218.70412656621	345.627266482686	294.997671630798
PGD	382.485769373364	414.596948083067	427.98782239715	483.699436940387
	4628.04544865227	1687.06111969368	1107.29687889378	2120.14463347544
	1526.66232186013	926.670867201327	679.557656724243	727.425595270342
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	242.81187187788	161.655336107432	226.796825544749	148.691132137188
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	148.390417679848	147.439303942026	182.68965110437	176.062665550409
	152.470980074365			
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	1478.09582385838	2733.68308784024	2580.98143004019	1889.05071563459
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PGK2	130.156775178934	140.35175858015	135.688346453694	134.46179453106
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	134.919972250554	126.718380351644	118.703108284564	127.104097294238
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	1797.65684760558	772.776364492813	1227.94401191112	745.844395215451
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	122.176811388389	119.586157804692	131.568898109933	130.501010489883
	115.310953814885	119.285026330891	130.819298796501	126.349403754775
	123.156154667242			

PGLYRP2	139.641688273911	136.70715656782	129.369968549738	
	134.064206964444	129.782134019986	127.422129210789	138.728765780512
	127.480717762966	132.247611790269	126.089217853289	132.119370332298
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PGLYRP3	156.594337089784	144.436358527414	160.127254444487	
	151.330035086652	137.165966740473	140.736051985112	142.009798151592
	152.877058628512	133.760183242137	152.974593669153	144.585120811896
	149.597396040729			
PGLYRP4	130.854818615966	125.313515459103	127.183924911179	
	122.00079209554	137.973211667003	124.028748209411	114.91722828113
	118.410091682499	120.316950428535	133.802898895457	136.701400398129
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	1262.96801072965	666.204695328096	1379.26881813339	872.512754090023
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PGM2	201.123529130035	236.855293143293	218.000351930307	175.7330682766
	613.846166856328	985.637230639964	650.0804221227	682.730262408017
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PGM2L1	371.280926727395	352.180110869664	363.777212750779	
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	167.030667499538	183.998458233995	206.669783013221	170.497804969996
	197.651165059354			
PGM3	207.254220247481	192.059255232313	220.047563627558	172.836730741407
	227.965783945702	251.61451602376	302.362619893594	318.004190156313
	279.75914135192	336.279209908669	243.936797286495	250.542405852865
PGM5	6409.23524786095	6021.68798558746	7519.94306346326	7245.25086222102
	142.451443706198	169.607072855818	138.841385034636	235.261278607182
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PGM5P2	147.132625797946	141.174971007547	140.482728188987	
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	293.350292227077	179.601348561497	182.143506470859	176.802886129341
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PH-4	128.194171809998	135.364039983762	140.112726392608	133.288181734813
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PHC3	167.206513789165	147.255680306221	157.915292037378	147.910699446264
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PHF15	551.206833852215	543.389747823877	604.047164856689	724.103864917969
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 151.877035446575 143.103779196037 150.690143057308 149.283495832731
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 1331.18605673705 354.705553237406 810.769136227155 797.501324589697
 900.039744829725 1551.90775589919 1004.6207350158 747.077451281453
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 867.369315017411 500.132469062228 454.732029358748 453.926991868451
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 PHTF1 243.839402991061 221.512905853031 219.519896184851 246.152798696993
 290.754210152709 340.239348689005 293.925995360234 286.818166898922
 308.38513924253 202.504840299605 315.786908578669 321.627969147543
 PHTF2 151.194282143046 149.487167787687 142.085297109435 134.819406064011
 133.192757350144 177.567833691547 177.84188738734 170.505553609318
 172.622816559412 161.559920910487 130.565986980021 157.592607345742
 PHYH 598.924339094496 629.197022551069 787.874585290601 702.779943547386
 762.584280908728 1515.38811502277 439.122658719747 593.821622986351
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 126.755389668637 140.634047988278 120.035437167539 118.383317097375
 125.227513212286
 PI15 178.819486867379 235.76573393374 215.019239034819 254.991678321253
 159.276726310525 163.045605069267 151.181422205549 162.961792330623
 152.662446724781 231.044588483625 158.602687876661 150.78145177853

PI16	5702.11995823367	2767.77385345718	3789.1316515671	2720.83642320419
	140.794929983858	147.236728188605	141.876237297525	150.48744233923
	167.451782810394	127.816596414779	147.844734028193	143.534617425725
PI3	117.251233255966	119.711070285785	111.381427322188	120.602818832247
	161.956032597813	112.629266772219	173.010799217261	132.517166202071
	154.869171648942	21409.4415798676	381.625983354158	113.572326615571
PI4K2A	155.773639092819	150.866204945762	148.907136936731	
	152.532083511961	179.582086214179	126.88329158544	160.713790305656
	152.79367157305	152.805525883571	150.672985449063	172.008994980259
	146.701489210289			
PI4K2B	183.152005135504	197.618757939729	188.417078622503	
	161.148734808267	288.631429069336	247.779718065751	302.847274046748
	217.847954914851	333.200230327106	293.448046685909	272.41397350779
	215.931781291835			
PI4KA	157.663460168247	141.097257687941	153.795665190439	147.813170436139
	170.753615127089	169.642188114285	159.870967387108	166.904990069484
	169.502103689662	166.595529296463	150.014842228372	168.521601064374
PI4KAP1	210.117033165026	182.711318507496	232.231236745251	
	220.633692394229	242.614881095485	307.083179338165	307.665281863258
	260.52593414721	599.307072499899	245.195406638979	247.454326301069
	491.35949123223			
PI4KAP2	444.192734921566	361.620362526358	438.231717096337	
	374.106258053201	387.135002880995	656.32782132983	474.378918787006
	417.442660073269	1295.27257578314	414.403321220432	418.772484676858
	1044.91923772265			
PI4KB	483.699436940387	495.655170027296	454.030083521756	613.063954859056
	525.789451405743	487.19625805337	445.505512764045	501.738490253982
	526.285114043212	387.617166711971	581.191693771646	551.206833852215
PIAS1	949.260897408911	793.891277937782	1005.62130301653	664.60530723006
	331.999693230194	574.779350011402	473.947538805454	415.322560616847
	506.290241222253	455.21285026588	502.063888359427	489.118864124059
PIAS2	208.75656341402	199.378179817518	207.123420880185	203.11015591813
	207.850956786183	174.42996813062	175.417320301614	196.269193578525
	171.494975393562	201.186963432715	177.825648107126	178.455966482206
PIAS3	254.607324522225	243.893774595317	239.635531434767	289.297370738382
	330.005950459958	159.362293777146	268.568824794145	177.343586047942
	193.813717161291	279.413335686746	285.882780066861	233.975864722289
PIAS4	714.6859666834	894.46029531926	604.737834405874	1288.3346537369
	1600.10235468018	809.068563907145	902.822697602452	818.225731093346
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PIB5PA	136.116468624715	143.836637098747	134.002424083826	
	130.024546949158	177.246890307643	137.438984175012	145.507330257603
	130.973504803813	140.479321382192	127.808579455383	134.759283147919
	138.79473329684			
PIBF1	192.375251343504	182.300628120658	172.304496150036	171.677654793775
	162.6762533989	170.835513021958	181.950658782069	146.474228901408
	163.22059466037	158.374760929273	192.860161535869	191.241000498118
PICALM	778.28014337938	619.75986112089	714.052063877292	
	443.005424069211	413.757630469808	459.771019162573	536.253405705975
	413.172954892025	472.108893832845	626.298707790229	595.593867616527
	587.026042400878			
PICK1	295.778154263981	328.019503002384	322.153713097778	333.200230327106
	754.97177863997	604.687265229902	556.568221094639	299.390443444504
	370.555627307623	357.928880740814	412.941907828617	561.609211243027

PID1	598.287431134037	383.182507425579	608.611927946607	415.957832362051
	148.592330216136	164.962201718762	149.613701531197	171.62327142765
	185.997327421952	137.760712896718	158.06129717954	166.674240866931
PIF1	175.176693060261	184.530853446688	178.200678423426	151.214631373344
	226.623172906957	162.997720993338	171.014432075829	187.903298116031
	187.48055574295	171.39347085745	141.328429642544	186.215602572358
PIGA	177.759729226623	197.24751449599	168.248982292489	171.731395791818
	241.867699338253	548.138527647594	351.759100605991	389.500591134279
	240.253944604431	355.80042210486	258.311739685895	360.053590374552
PIGB	176.547853494057	181.681929801968	228.739556788924	147.022594294963
	278.598913464804	247.806371601734	337.271784551586	277.726756691133
	327.566026396726	359.703969802888	278.687780705367	362.95684683529
PIGC	334.056545911557	309.181150342727	470.308610828825	295.278972023002
	392.282956362735	408.60092780174	372.149771075286	473.057488824363
	466.141717595301	334.140757209353	500.643499051523	585.552940765069
PIGF	183.280853265083	198.456392063513	196.974807677659	159.032710656826
	364.840751972169	368.825190022937	443.964363178742	488.379057110543
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PIGG	206.650760711745	172.909795209733	190.238332933452	173.741466458636
	194.413759761549	211.966139902562	296.20443113482	298.926727289387
	304.590636814607	281.341452463344	297.544216175512	247.145700155364
PIGH	266.534316786801	232.083160165968	289.576706584644	222.764568757453
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	229.542259738438	273.806452412737	316.524115715585	295.330307669482
PIGK	234.370850809531	221.930333726352	278.335289966805	217.264041781337
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	261.844708446856	354.067771806542	218.735620596634	204.103018614608
PIGL	170.01557699913	168.991551886143	172.057586741925	160.001115445038
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	167.325227483198	204.509884908059	166.709393547104	174.92026613834
PIGM	453.457361487577	458.440488401029	496.697565640162	399.476401949891
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	641.12919339861	356.62074247786	591.89966781883	1082.00448164658
PIGN	218.08515867102	208.095384605737	234.156713102803	202.568071395884
	229.017256104437	465.683139139622	314.182403961681	365.727197088581
	331.888150158628	409.206158277764	374.657816575897	369.070376276471
PIGO	183.894417745549	187.586093248437	201.800357785022	188.322853571195
	424.134483971176	219.8511043213	222.624150073858	201.235056368151
	202.253560413436	208.237011955037	212.497773003032	194.789918629905
PIGP	430.649188209901	359.822784070765	544.956712516196	294.22752955801
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PIGR	128.232091717966	178.632720545904	145.737361356678	126.599418127637
	141.778060508776	122.129348411763	138.796257513868	112.957395064957
	276.32528705384	117.386273592501	388.326080754063	167.430767074847
PIGS	252.138168292964	232.735767435327	316.281469585496	338.822464893411
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FIGU 552.167699318911 558.440840319738 445.763740779039 595.270107963842
813.454826901794 1067.80176606977 1348.80530206238 796.052115217208
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PIGW 146.210814568357 147.378228560979 141.67550758321 140.321675137237
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PIGY 1617.44377452783 1628.24528041404 2193.376951552 1576.21727854603
1944.15673951528 2382.87910783088 2615.07927836881 2219.71846304201
3413.39994653641 1810.68433539154 1602.63977096867 2708.20624364471
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PILRA 163.256472113745 159.213940274232 136.65402176085 170.202597821861
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PIM1 540.359249705821 561.251860964966 691.205738835917 552.662610888399
1418.60088387728 677.802147190757 775.781735108886 600.162650426961
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PIM2	174.301952147167	173.450023117394	170.951009118578	159.59942312149
	311.715351215263	180.667897257797	192.878416717298	327.480268032814
	500.848273432862	164.268280525424	211.085778902367	191.912670416334
PIM3	184.569063297206	201.458970969685	179.220691178402	176.680708339236
	179.525651423361	230.546762514966	171.106189029362	185.342353172151
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	1555.28458491244	1344.87842417496	1251.15912264225	1360.24752587939
PIN1L	118.770061426689	121.903115540516	131.70505265403	135.68481384332
	146.029647001623	131.85737847837	132.759440588374	124.907788504503
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PIN4	197.049616858296	189.250846546817	206.999289979742	191.467626362851
	164.794626785115	302.945860276233	226.712995229189	156.733898702331
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PINK1	962.559482864549	748.703265448403	871.268905562551	817.913210743023
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	147.439303942026	148.641780441227	144.619374612317	147.314687795555
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	144.694679571377			
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	146.135269553731	137.335501759561	183.04531185589	134.46743016543
	144.678895821726	143.442361602626	135.957972463728	151.024201732633
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	161.241165533091	167.612577768782	150.655359765209	155.917655560227
	162.547569833931			
PLIN	144.380485359951	150.963667177658	184.954673605577	150.343825300998
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	177.919885012006	183.815810733176	160.315029612814	150.596350682411
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	147.530719472217	134.896349513392	138.055909969804	120.212294184999
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PLK3	121.886886059038	137.96452133771	117.958297137758	133.722739936347
	133.297361715205	120.581554457723	122.878790127038	128.449200385351
	119.937665469629	131.975248488461	161.678137139371	131.056011738962
PLK4	150.746423638097	158.153875553171	155.413300826229	169.179630363359
	242.299252896647	381.323457262383	273.353254857377	483.312894744803
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	122.978576290038	128.324383749931	127.578272480621	123.843823256462
	122.881793230233	125.828998007608	132.342063356763	138.712529531951
PLLP	169.556358586336	176.940723174814	178.537080546119	170.541689758579
	234.5655184349	186.112835637689	232.492398623889	188.444498848767
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PMS1	159.036647992998	168.919352453652	137.4129528222912	156.119899067238
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	171.384487293154	154.091431691072	184.056274452194	194.961531388323
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	158.522877390859	154.750512277909	165.844762875582	149.760883745928
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PRO0628	312.224309341171	279.668007824988	393.500781010617	
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PRO1768	128.630613404354	125.765399556488	131.466580723837	
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PRO1853	1306.20183851747	1107.29687889378	1468.50184641042	
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	130.097543328456	132.99989565368	136.903588075134	151.540744107423
	128.755697083014			
PROC	136.563471322998	144.023798119335	125.154784284706	128.001109846227
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PROCA1	174.787077606165	183.226294747874	194.374817778819	
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PRODH	122.144209450757	151.796986456254	127.921209207879	126.362418476129
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PRODH2	149.574353706911	147.064543281269	142.518266591748	
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PROM1	474.517750753745	467.681480781925	236.809829701921	164.256764783784
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PROM2	434.855262284265	974.544773560873	475.213525346293	305.050933898691
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PROX2	139.174188535843	141.81391138301	121.903115540516	134.711144967036
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PSG8	108.497209666203	110.212739445	110.858201415824	105.010952544907
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	115.371180170291	114.358099210532	117.546508214236	105.741092375243
PSG9	103.012774960061	121.021776527531	118.180919555585	120.951365231971
	114.078271807864	117.017844025726	119.525701528869	123.571641517019
	212.607094117882	137.002473710189	128.980519133484	116.252227301161
PSIP1	388.477382640003	399.537363692534	437.049581919144	314.949772661046
	196.860228537112	202.927700504034	172.230528631803	207.598754515294
	218.839681873515	205.149094703318	187.439567353342	180.747527895349
psiTPTE22	128.436499050769	144.479410859199	144.665869508406	
	146.927825526831	125.617143363441	136.699011428085	131.761564745495
	138.058404474114	140.976675511847	143.694412162756	136.042982529628
	141.73799456072			
PSKH1	145.270140096768	161.886342770305	165.613274361543	177.039190810529
	248.850686917567	131.216673806987	146.904354404095	136.003277940379
	169.725534829981	129.077660633761	199.837938317725	127.080149144234
PSKH2	119.643417329571	120.744994574029	124.381674909742	111.000303209442
	125.859158049343	122.583461806645	121.805145639822	115.702900810606
	116.89487516867	113.694351010121	133.215151497536	110.829107724132
PSMA1	493.492348317616	472.279492678374	643.306565600931	470.95418656881
	611.36406319509	820.652972219658	807.92851898782	840.623505494489
	859.860994525775	1063.5903770389	942.900963522948	688.915534194306
PSMA2	271.004741629789	265.148061007894	288.370985514978	296.333944172375
	374.337030706199	358.843277491684	338.46332239699	310.465070184707
	283.701987275608	268.568824794145	366.857139377277	399.620724969771

PSMA3	568.040362658955	497.916883763059	727.114956464515	427.637083424453
	799.759250503507	724.103864917969	769.34961339184	1151.89087953837
	909.388774224614	840.623505494489	950.144166422001	1398.60850048351
PSMA4	1414.95226752155	1464.04124596264	1555.28458491244	1225.33666840349
	1912.2369374258	3173.14004739767	2574.74962955426	2379.15291239548
	2553.92770795014	2056.90127387648	2452.1304336603	2841.96460830166
PSMA5	1333.73334006986	1477.10828981572	1656.02721259517	1298.60552708737
	2660.39990175415	3862.57980488881	3294.92439159154	3921.67860557329
	3855.33040541264	2120.14463347544	3019.57419253979	3829.87905458534
PSMA6	1369.89073267996	1571.87128697931	1673.5387396582	1321.17236442448
	3994.64569045702	6960.46610781696	2666.06582231934	3789.1316515671
	2853.14759681683	3301.98381607571	2871.34694522381	3130.30693451802
PSMA7	144.54895913821	145.520832968878	139.969155812688	137.258429777402
	172.707821624271	175.313689069815	171.130215858803	152.628220216104
	146.539196738195	167.713268780664	140.002249873656	181.412790232996
PSMA8	101.431474941041	113.726931741236	111.810575716678	109.586955365611
	117.889524670597	114.545476919992	105.408689610638	114.888157310977
	117.261443445891	112.558241320112	121.519309043513	114.987285062108
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	6571.35528952186	4697.94415026712	5489.19362780613	5932.37714987741
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PSMB10	1903.13326109546	2369.233048505	1856.05025952611	
	2744.77453865893	3829.87905458534	1269.67110104843	2033.67956299225
	3481.90072759183	5825.9968524214	1953.88327754946	3463.23822434026
	3615.76740804718			
PSMB11	141.497125111619	140.099069486005	132.645196037302	
	138.049846456876	120.839256811295	153.149523560021	132.598022317288
	141.828740140733	137.519771130707	144.879364072868	140.496058408953
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PSMB2	781.461780481171	856.74270641707	990.55038742453	1057.80846320642
	2043.73482086765	1566.65825409044	1328.84172386373	1897.92061704124
	1887.82245931444	1357.48791782399	923.383014892221	1704.25279485563
PSMB3	1657.72357544205	2193.376951552	1542.35486950856	2208.49325118803
	2691.41389079777	3850.41246770812	3078.76695443407	5811.97916044218
	3810.98043907046	2645.72125268628	2014.48411650613	2845.0377634896
PSMB4	1454.94889750152	1555.28458491244	1623.92991386706	1657.72357544205
	2681.48138915107	2162.46602203822	2010.57142784228	2670.9151276786
	1818.92700816112	1606.01395227661	1382.95068105649	2446.31228564539
PSMB5	1114.85422895959	1014.63777151551	1344.1288416533	1076.62597781124
	1643.08061372695	1085.38819961412	1756.88092410303	1656.02721259517
	1281.9073569335	1386.56788941677	1353.61552261489	1901.97972168836
PSMB6	2733.68308784024	3046.47354587949	3246.86605825129	3896.49785254733
	2240.33212242003	3976.40140405628	1980.4589291261	3504.77617298452
	2708.20624364471	3348.7622174821	2210.67250954072	3688.68740405322
PSMB7	1540.71556891815	1640.99641023476	1776.38646235135	1595.22997714906
	1324.56751399862	2124.12760841901	1682.64624665931	1940.42283070543
	2258.30916111153	3363.51782842264	2000.47497636965	1707.09830463606
PSMB8	305.854543429221	340.301980622308	234.814109965002	295.330307669482
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	753.997560938003	349.910535555712	754.406896156858	651.675427664911
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	166.521472376759	147.045944019838	165.673535349675	241.134385745554
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PSMC1	3930.2841381915	4511.9116742833	4214.83058308503	4359.98094976179
	2369.233048505	2656.38138490746	2882.51330563735	3757.39261544326
	2601.89405525276	3328.99028463277	2863.51286169094	3833.73632806344
PSMC2	1326.95332435394	1327.65573168233	1689.00127592755	1304.37930719411
	1544.45026075974	1850.98311401165	1685.33737186733	2295.16438420175
	1554.16120123599	1798.5819962261	1563.71477584676	2299.23805014176
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	614.514126276981	826.771587455122	690.903797251841	1315.66699943181
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PSMC3IP	149.910521500364	146.738411200698	165.51742391186	
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	161.632610858756			
PSMC4	214.082408290757	190.787437782456	297.609793563225	194.552533397944
	341.64890727921	618.661249163439	455.930204471585	581.54874141672
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	1292.13921040404	1895.72330348767	2083.02482378721	2789.67986601883
	2081.45603839306	2459.05558915812	2508.50428529255	3215.41238464601
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	664.19083888799	1009.42265467472	839.901173743755	972.468110850466
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	444.584594376357	566.543765584009	456.201998988891	595.593867616527
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	457.130051460676	557.702374840532	571.838717184447	392.582612044755
	619.380514697732			
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	227.467161919443	456.530337997907	251.546290552828	260.045018348182
	315.565349831797	258.25658838015	285.402072939954	272.351487980415
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	5521.74673982411	5558.51089816921	4266.92715355342	2303.0998502001
	4956.21683075884			
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	219.151144724168	207.488522933448	198.90533452253	195.269099451599
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	551.086785904249	909.020708316287	1379.26881813339	848.154015576436
	1202.74869573717	1068.63350031223	1203.47834989609	917.646958427824
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PSMD3	215.967319486874	231.846509449829	242.695286989672	225.64288602828
	388.477382640003	223.128108720503	291.261765585473	763.263858769038
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	1165.95924778817	760.272612245092	878.520681466946	1135.49876948815
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	451.718912714608	371.280926727395	678.365575489532	650.0804221227
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PTPRM	420.502251256406	434.716530273383	410.002817143111	427.249733213787
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	645.438835606933	321.367338145787	426.548994267836	787.874585290601
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	137.056500339577	156.105736111274	144.612549022264	144.40361834862
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	158.36796888959	126.316613675316	143.347066447019	136.222421297872
	126.340955733062	150.333572271902	138.800986934663	155.575152212736
	163.799748670842			
PTPRO	143.147325939994	134.28095064513	132.955473649746	155.582036890436
	135.829273398594	128.929244741296	131.144774362059	139.785767470943
	185.113098620798	130.001889950186	172.045843691642	139.333282400639
PTPRQ	132.584454429269	141.117659724704	138.223001481672	148.237980436128
	124.522974214212	140.78582131501	154.792156982219	157.797222258336
	144.411176964424	143.727514442914	153.4392054301	146.418147447541
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	274.316982298975	953.549801897112	852.649997188692	2775.84742592713
	371.767182305618	150.439715066903	185.617936412633	511.779988437654
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	142.801645268128	140.485102148597	156.296046600921	148.80452641061
	143.399877326927	145.68886453261	154.177340021162	144.405191855684
PTPRT	140.496058408953	144.592987736094	135.253713075341	138.737332306848
	146.871145679651	144.199054675488	135.842090777339	136.5680632044
	145.882793872634	143.665359343809	154.746081871718	149.151791028837
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	762.8576747113	400.180574613078	625.699971780258	265.670643951648
	274.627303114477	171.602950766191	560.602047253306	469.794672718173
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	117.324368138398	144.232318517281	127.036976462046	129.143168240589
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PTPRZ1	145.675032688915	132.081286801266	142.217762896203	
	141.301503201175	151.273261581765	122.093290585838	128.954113816227
	120.967523586161	125.091038614268	341.096072280715	128.005043478952
	125.519298131694			
PTRF	19087.9532735841	21110.9013462062	15053.7547401937	26375.3000727296
	746.777330152729	929.198774489695	436.834825721843	971.99484515987
	1571.87128697931	3734.705550862	553.368945998847	507.56875910742
PTRH1	200.831877950718	202.314814594735	246.061496821699	225.209315195163
	384.883635849576	217.560691345072	217.910445051307	272.885527139137
	198.15257384667	319.490670412394	180.941090529551	209.196695368783
PTRH2	309.283897272661	291.683896942007	345.977609212137	251.062649517773
	296.721891842563	620.371912523332	584.433155497378	618.058496806334
	629.197022551069	520.761305892651	403.292651623365	728.176339659082
PTS	727.425595270342	601.997464467917	709.778171909457	471.946284490029
	1131.96129284658	715.43295523922	664.60530723006	707.048754700047
	934.546444634669	809.545702751155	854.815394943219	814.471143753335

PTTG1	206.89716102989	250.84781675544	208.045210163121	237.266455875982
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	1554.16120123599	2111.32236867229	1788.35884039549	2390.41825815872
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	126.743579586052	153.126111237668	145.793794049657	129.286782862113
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PTTG3P	163.108825245937	188.959655155629	145.123845983625	
	186.156006020985	501.005898087825	608.816123736392	404.073802241516
	934.173273294189	460.807117177285	1277.0921553877	284.104619768635
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	104.406314027414	110.602406076036	114.77964341895	116.491342107103
	111.127245394321	116.839796680107	113.470356909765	105.375878824562
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	3334.16277752222	1845.87311313269	1493.90578573732	2039.55802107872
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	209.33028918341	331.888150158628	270.360397503276	250.911817769829
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	630.176145684641	977.999660785113	811.564396886535	764.137504481329
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PURG	163.726898336284	152.660373241584	166.111496598928	145.97512573326
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	149.17815859943	155.43577761798	165.055636629118	170.430478598594
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	672.862678078975	470.154677948419	461.482735533799	502.499539192864
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	474.517750753745	222.243523614518	224.118739978257	198.088834624665
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PVALB	121.492896642899	140.659276788384	148.794293762142	128.077692981235
	146.867740388881	145.594378536072	134.224781719944	163.074919710259
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PVRIG	122.816049839521	120.964862799634	119.301746097298	110.727742629085
	123.683553177379	124.522974214212	114.032874859062	151.592787806315
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	163.586549438955	198.338416756432	169.417764098848	221.471811658459
PVRL2	237.01460308334	229.130679600654	178.966169998125	215.219246394594
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	284.321253087512	296.962992349662	241.845941562418	299.513950278952
	309.155070674445	290.541184606565	219.661502916874	237.521746704115
PVRL4	128.020911959353	151.770791549511	120.252164075308	106.719519490874
	337.39574303968	335.533053221675	234.661864595717	179.779007442837
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PVT1	138.136901441896	147.191114491117	148.803188053248	146.548348470748
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	986.972987865318	1275.43768532088	876.783710734594	1071.47374315822
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	177.379186278216	192.954269340616	174.881557472722	189.94130405123
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	458.33221423434	272.968792195442	328.826483579278	212.669156800241
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	277.000882284125	361.218491712891	283.645434184168	319.560819487616
	282.47352481715	333.822167152866	328.33387481068	246.63579788514
PXMP4	188.181647474317	187.443940151794	199.637257550762	198.390247605355
	170.522853717911	259.338947392465	186.460034745907	192.789886894821
	181.85552254233	163.267148547147	182.919385608842	178.542247857251
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	130.110413621436	136.995866452787	152.224281847792	129.095469955392
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	134.325520377207	123.403099206878	134.712935556892	125.724143659093
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QARS	2753.89649259242	3298.73393277409	2979.27692778783	4255.59773503364
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QPCT	163.873355370767	175.165305179665	199.327939161502	181.157738347957
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RAB26	118.909153405102	120.571074646092	126.191057198995	117.123891785437
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RAD18	126.0944894315	137.246089511045	139.113675690483	133.452032750397
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RAD21	790.321331435096	808.55123510297	869.542306259337	571.439520427295
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RAD23A	1410.58825009446	1472.54829263217	1281.1883621512	
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RAD50	186.296882059398	182.346834032145	201.337186768645	169.089896796513
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RAD51	313.025250337353	329.82030842286	270.181005097697	299.29004204677
	195.69447353356	268.930428617695	261.028644858795	270.894153548841
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RBBP6	203.370353613423	188.062732621031	190.270819689158	207.850956786183
	182.055718892894	201.507971833902	191.365014963729	178.885625009973
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RBBP7	847.863177169335	935.042067053226	989.396074034945	879.809795251142
	782.746481112316	813.034056288861	807.3257139219	1603.87451959083
	1018.38836615952	544.222458349696	887.147199303294	809.545702751155
RBBP8	195.481680273686	192.375251343504	194.143649677822	174.274996381853
	224.824362819477	289.761702484888	261.065986251886	660.535644289024
	376.627801547869	362.65285317327	322.443089373063	339.598452080917
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	212.822328466993	422.840163973614	242.253995801882	205.886398618369
	240.94056877904	236.933960698783	218.811490883852	213.891435492914
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	1191.88706134921	451.317592236192	393.796356067403	389.177193459
	474.750156829195	449.598181155897	504.275299381356	506.898635822094
RBED1	219.519896184851	239.33642662112	249.379605914827	273.651114834013
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	197.981112645168	195.316077537716	262.629961694573	207.993943398697
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	147.8838487685	144.587253120884	126.890841187249	146.002585729701
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	556.31484498921	544.852019338212	791.137867905579	485.576566972696
	565.843200661721	603.906237227931	1019.627634011	694.288215755716
RBM	119.26921157552	128.044165393924	134.89031458837	136.884799902348
	151.635752404534	135.923022674367	131.882887826338	132.105184573944
	131.367075440559	158.631298154353	123.563243360247	151.613134875009
RBM10	921.140932799223	1034.68475089075	843.075879568455	1249.89496565284
	1270.76282064793	962.559482864549	847.863177169335	1089.16489859253
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RBM11	164.413893089607	141.765004355609	153.888212689508	150.817922696097
	148.611352905643	162.774716879847	182.310140388705	148.211354898758
	168.223865801948	139.082897743357	148.201649039381	149.157934946623
RBM12	301.087947101876	291.779980648289	251.61451602376	263.084557246752
	320.214614455231	528.921893077914	390.752579014611	362.95684683529
	352.22815095475	342.878522959461	358.60777927888	377.661589835101
RBM12B	327.384671423687	369.198837083585	299.616447269111	
	279.26508919212	249.339449789861	367.518273773904	341.819090221654
	319.018213637357	294.280238648737	201.383739902873	327.251620296271
	294.280238648737			

RBM14	1121.87292339787	1167.72023351098	873.256632365737	1323.91781040143
	2332.98074920207	941.572186137467	1061.29067124163	998.631321857182
	1090.20254511452	747.322544683874	678.684323057327	829.992212133165
RBM15	537.510539142248	544.852019338212	373.096629378654	483.174262289559
	324.177924877233	590.646248924596	455.778776920897	521.512936372701
	318.628084728596	378.38874489611	471.816954259146	306.111172289632
RBM15B	201.004491067972	217.491746961471	187.407526616724	
	250.037172478288	337.728737393381	223.311817085871	251.588748783592
	247.528753010193	356.921627358141	151.09670688533	289.911635155481
	324.713347085998			
RBM16	283.556453980797	239.148333781084	327.635520861099	239.941641600769
	219.462274506333	273.478372861114	275.609716327452	274.427235605909
	223.703371558666	260.314440448486	265.174306663185	247.779718065751
RBM17	1002.88224342342	946.273229715791	918.162638134305	996.240188311002
	358.152044880733	745.482863218223	417.191960489528	555.366765340014
	431.093544964576	322.956882599715	636.56692204969	543.933989965705
RBM18	181.840985962045	176.810979494826	185.258354905314	169.095270479344
	233.394506254045	181.715992480635	202.324795686879	199.947823264085
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RBM19	151.839306445341	147.257773507186	162.096065738375	158.208998509937
	146.136820062093	159.199045715212	149.642946071295	145.526941881413
	123.959050197189	145.378779757104	141.305605155722	152.993555372242
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	139.197364191101	141.169908353507	140.418010366997	164.03801002919
	157.960172706254	172.045843691642	139.123489349026	165.890492422031
RBM22	1690.96371604294	1838.18547839898	1573.03248861784	1587.84395475807
	963.343120586863	1268.73280473728	1889.05071563459	1777.29626660109
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	879.809795251142	727.814681346494	1042.40539020413	1039.92160906839
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	133.814720785534	130.09050436943	138.42029331811	132.038012025708
	138.156430188312	138.129281196474	130.860938463815	140.906421938377
RBM25	1417.76295714364	1378.40627876546	1264.90442763788	1474.70984232307
	653.500279510032	735.449040059761	768.053694275398	1074.96415574964
	917.646958427824	843.936924659514	1639.76556136383	1414.95226752155
RBM26	285.507315916663	211.609763150578	337.22646304739	217.24573005272
	243.191238594142	274.891033696257	301.304268871606	303.795701960506
	350.926679856514	311.670576741448	302.905840432998	405.843083758177
RBM27	288.728608411903	241.105817192695	297.757657398146	209.362806125315
	192.273528391588	284.13865992802	249.09278446472	255.527764534636
	198.055877414824	286.856346704286	235.680462167404	293.600165830839
RBM28	230.10433160008	197.827534617557	211.085778902367	240.497413647633
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RBM3	366.961565952239	354.205670284123	506.898635822094	414.538237455116
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	332.082749517913	394.186683910377	378.24336892367	462.948429969719
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	269.379272725008	156.34272729153	214.824908522393	209.229537873706
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RBM43	213.145460679531	186.268881719287	251.161789722751	206.937770272939
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	171.521579011287	162.54008293513	196.117609477292	166.007913607742
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	261.203388718689	268.961643716282	294.808980631295	304.357050745605
RBM46	127.926270257252	142.939578759097	154.043604150962	150.72835989269
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	165.41729888767	469.333357789149	136.786462547129	137.347554578171
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 2563.02488807613 4134.02613649483 2051.45788386541 2059.09598012857
 2833.30537635103 2635.31067044245 2153.17165155392 2811.84191700516
 RC3H1 144.955918499353 121.203149121743 126.924014801186 123.797585446062
 123.179986410723 132.196506161702 130.430917518283 120.867408760075
 135.013075032671 118.109991440011 136.428826558493 133.388533738482
 RC3H2 286.230656780335 246.288681426405 257.602370597316 209.070372320593
 247.806371601734 223.573080955095 250.217137496422 192.737713851863
 243.283375388645 313.322307299463 277.501071684448 203.04864785056
 RCADH5 326.703488388966 303.300028849873 362.502631441716
 298.664864578349 168.477388641982 360.756455184184 225.803528238368

	249.400820221233	340.239348689005	229.907632927358	203.999142031297
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RCAN1	438.231717096337	297.834209533939	242.72424280444	255.793823796456
	172.857643600385	208.895657507883	216.836094088131	166.162656500954
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RCAN2	2482.27419621925	2886.92690692502	2309.63504858248	2406.67187918735
	128.973904070983	223.531323159808	127.943935415045	204.5274881834
	295.330307669482	192.655899720909	182.827395663312	158.463444189819
RCAN3	133.830860948014	133.768419410758	143.419034484087	125.828998007608
	198.489278156437	136.543603346919	158.767439363085	166.64535048582
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RCBTB1	135.925813154268	136.960656707275	129.025000034273	
	122.813441348997	134.113464449375	155.680330654611	130.240366272285
	133.274292647041	141.678529125136	121.177681858671	162.766038656637
	133.890597982015			
RCBTB2	225.362253409428	219.351080515508	240.561105692347	
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	195.256498208339	200.486683704179	228.9901869793	179.100368312505
	232.621526025603			
RCC1	131.110018165002	119.730174479044	115.02681415256	124.086902599543
	171.099675679944	145.265512354674	144.570725886413	131.865164933746
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RCC2	829.740755449333	1421.04485772969	795.037968409957	1594.05763963363
	3810.98043907046	3490.77593331727	1910.08485008041	3282.73711809465
	4309.86375945008	2578.85391480563	2995.42172749615	2350.01764791897
RCCD1	146.029647001623	139.765361891899	138.53403492914	146.240060512152
	127.327765407459	127.109798012351	148.551340840517	138.645156942894
	143.019052979243	129.612536218578	163.267148547147	145.686092190716
RCE1	181.941224633917	182.786177632757	161.577683729655	176.410016510249
	524.855915371246	297.708113541379	269.053237303244	214.933911087009
	215.897620927751	345.209128382239	210.478088018501	286.945784387294
RCHY1	150.359906271672	150.582568022489	153.34166495223	138.28374062778
	140.826051635712	162.819608252826	146.531692460121	157.912864169081
	148.967232828819	143.851670859917	152.454414703534	167.547551072373
RCL1	174.568253693395	181.771654391653	195.569517538477	143.993611400272
	204.090674444834	210.590774758661	171.671895682052	316.590387560909
	212.571491543077	231.819341041105	283.326226944158	203.456296907031
RCN1	1184.88559645917	1273.6393529108	694.429144766435	836.613819700658
	1480.52638217173	1047.78978081493	2352.01196541874	1386.56788941677
	1890.86868383409	764.137504481329	1445.72064343302	724.777166238211
RCN2	287.287337931982	247.683819429859	403.984761333129	196.053808536366
	514.354512083591	1392.89422203207	1456.76683429755	747.322544683874
	848.154015576436	675.978379566859	652.429025114523	1247.02514044778
RCN3	298.460273458181	267.342817344746	235.933451977398	286.469773081481
	2913.2685312165	204.453822958077	182.130970182242	206.585387130993
	219.044271073282	316.801725268792	165.2958475168	163.284853420896
RCOR1	120.577995272053	118.100611964852	115.53736269794	113.568261995787
	118.442856984861	120.964862799634	119.150626141327	112.219585614955
	114.638254225216	119.049388179929	117.261443445891	115.795989631016
RCOR2	203.125568980238	234.094722315007	192.465510013851	270.847923557176
	484.028175202673	191.160340745501	157.341422939225	170.974759483946
	200.179796117115	162.10411532202	298.460273458181	275.203046536524

RCOR3	1011.14472068314	1062.749459378	1243.11900823259	1065.74382494535
	294.48534582475	546.029974898225	503.59466398882	335.790909130243
	461.581199513891	353.774297577869	809.729160605727	820.652972219658
RCP9	147.05034328496	166.298554732581	132.418902141838	164.736294372006
	144.757068610657	161.713311969291	163.575300618666	161.744366588564
	160.176567985923	140.709981878311	163.788418732315	208.095384605737
RCSD1	218.615551704188	213.7326050342	207.138680369683	209.93789387724
	152.303524109428	147.510848198689	140.531789506024	172.750926094884
	198.506786870804	145.870135196037	167.70368494182	134.93814894432
RCVRN	140.471953101887	133.301527400458	141.426756696799	154.250656489421
	125.77343813277	148.245974323625	144.389805078873	148.43357593249
	140.242272149424	129.779076484273	142.563762845657	132.587392944892
RD3	143.438417529799	142.833025633146	143.548858367002	128.96181458192
	133.274292647041	130.962368929833	132.481710681317	138.165240772401
	137.794858639838	150.922279808832	142.201672822989	126.921925660996
RDBP	234.432954093705	240.341031437493	232.321454436688	276.434192872962
	323.628636799403	264.741946816665	288.913660405191	267.372241661758
	227.418630852215	270.069634610818	216.033564783918	275.908856196757
RDH10	373.361263985383	265.972387419683	299.986758612161	221.768507175814
	353.187829498591	338.406266073063	318.73799597811	461.143361255467
	661.826149512811	189.0608798771	237.989479738133	240.663883443935
RDH11	1207.11788506001	1581.06548216423	1126.46241487062	1861.19763103381
	713.832153334389	634.046843336128	1005.62130301653	1027.11849332495
	979.019125719101	1020.19774509086	890.810315261602	891.194779815063
RDH12	117.49013401175	119.060186838239	118.015175851934	117.969576809288
	145.259981479761	129.871985352583	119.207503310618	116.746018509166
	235.063474370925	129.661073814998	131.193538235053	119.645983822002
RDH13	285.46340356157	371.819911874273	264.355693070937	386.067573158514
	1343.2623011534	314.337680575998	837.603727062008	345.897250519387
	320.648966489586	478.38361571213	390.897464546943	291.167223094542
RDH14	1034.68475089075	1204.7397215229	1176.62418139379	1309.01193284992
	1259.75918248468	805.120147618984	1064.12835214671	841.623780229898
	667.892385395063	672.348723983535	746.523071806534	967.797017108447
RDH16	122.300069045533	132.668344126625	122.382304966782	132.37223410529
	132.883408554592	132.168821720799	152.20173979854	130.998637545686
	121.519309043513	141.193081790037	126.484819755399	121.895778599116
RDH5	378.037190077449	325.999687273862	314.182403961681	495.099443245153
	158.49220347186	153.097557560333	129.672284417918	216.836094088131
	246.237243726748	174.177944561595	164.299585578035	173.611295051326
RDH8	146.306467130749	144.008961720971	141.205975588506	158.95714101556
	156.581569063195	140.377179372804	161.895435127054	154.368499839507
	147.78095608696	157.976810829398	132.348603553752	145.158039427157
RDM1	141.879359965317	161.821372157067	145.07503221134	149.390481900424
	149.548900791507	165.491193869938	147.192815700248	204.057019122032
	176.001771318766	142.448384713937	141.010588053284	158.411846122784
RDX	451.718912714608	401.584032365337	443.853458865556	353.385210690169
	959.126054626181	267.422232051733	621.825622897512	546.029974898225
	201.085046871333	283.645434184168	654.881990232975	265.972387419683
REC8	216.53417734069	202.718428167217	219.753039699136	208.838523729744
	177.151218006672	163.582678113215	212.915949933033	239.762135294506
	291.994364783888	191.365014963729	273.835371304535	281.405355165228
RECK	656.32782132983	528.478292835214	445.089930641391	446.509863498357
	147.879286704	166.440530119785	146.669620721254	151.758970249544
	163.290050020756	161.371477511362	148.029259633449	144.310362660942

RECQL	301.871924474014	327.696359071012	316.237519859859	304.547738011742
	209.487240895674	311.269750643358	274.047586063773	359.703969802888
	314.646369385896	377.148528768679	329.48021621087	279.668007824988
RECQL4	165.942761337382	147.954079022076	138.728765780512	
	156.046085830566	330.321113875647	207.400490077106	175.452986514346
	229.181725450534	230.546762514966	153.488903967311	158.63432604978
	194.552533397944			
RECQL5	144.970383956581	155.444668113276	147.624372080117	
	153.655778377717	156.228039404029	144.154217446011	147.951996191313
	150.69097927373	159.115391667901	131.726540162023	160.742365719929
	149.556644928013			
REEP1	1411.2586496281	1747.33558205825	1722.26954281876	2320.41293992992
	111.336798977475	134.387256336429	110.544044723728	111.743461522689
	133.368199807997	108.861243071977	115.896463925125	110.138220982557
REEP2	297.466255000163	344.529927973082	240.94056877904	608.959089074987
	105.050093408041	119.366599958278	117.071585083051	106.719519490874
	108.2359175332	109.700513642061	110.286187184448	119.517021355598
REEP3	126.230887413874	126.186758919929	126.143886553557	116.241531823869
	153.477432230141	125.324187741972	136.321816321193	135.9489027281
	140.992801405088	142.179197020805	151.852294315212	131.284359027597
REEP4	133.120273569229	162.203570429542	191.924177620803	152.356731704094
	402.866491417369	186.156006020985	274.01377986185	200.767743455226
	212.33360547376	268.698146407497	268.961643716282	221.322724563472
REEP5	2941.69058596077	2698.5455305009	2941.69058596077	2330.60389526686
	603.906237227931	2390.41825815872	2230.45015969936	2028.67873136046
	1573.03248861784	2185.46850787298	3103.4192907748	2525.90466050731
REEP6	138.655815405894	162.447903830131	143.290642777702	137.754373055094
	2135.04382065446	980.120729515821	427.98782239715	942.900963522948
	353.674560414317	223.311817085871	424.578659172414	429.992169596618
REG1A	138.530236176135	142.313725116274	154.343424387068	171.595724119779
	152.524106827617	164.466332705334	146.701489210289	134.524644163286
	135.767818903328	125.353389826276	138.132390735567	147.939682463235
REG1B	153.354921961854	155.861829925386	143.665359343809	155.465250172768
	162.638805580226	145.108281984556	153.066630483602	147.510848198689
	135.082715974111	141.262319193649	146.482652762374	161.12121879514
REG1P	137.410687900298	143.799113486767	145.267225993057	133.425151103622
	148.482530949134	148.794293762142	135.864853829421	139.878752507646
	137.180793826675	129.25124636593	147.677900030844	141.216869032251
REG3A	137.27298184582	142.671190279415	143.697931551096	147.743331160624
	141.256915527472	141.81391138301	128.124456615525	158.477017294725
	152.526785074182	128.876385705559	144.290286088611	148.224587582189
REG3G	130.097543328456	124.35374445763	132.978746105877	123.336074100984
	127.893555451807	128.576310682958	131.853183159267	128.327528039933
	125.048770476506	129.366567668463	138.108184983014	126.265475477399
REG4	117.335748689217	114.223991452083	103.691075663721	119.427342766092
	115.35376992547	126.708817316134	110.858201415824	126.777633512781
	118.348153875356	115.053039576143	131.18368961955	115.137475087954
REL	156.813992534584	159.891562221587	144.112401069818	125.742631850732
	149.274901871663	316.955298948771	238.124340832815	276.224613560582
	223.389795643722	208.507486041165	302.219514290905	209.596792486876
RELA	206.77605957523	177.083095120017	216.559563381808	203.642739476708
	344.992791638415	224.167511918105	214.991170762327	206.321272734099
	233.82434521462	211.395593720534	195.057830521304	202.178451227304

RELB	178.347708009405	185.199972151831	143.082880435412	177.306794546105
	256.370052241046	202.44778603643	159.891562221587	218.314136992677
	228.542423012958	179.30729544595	252.222481637238	207.269530621176
RELL1	292.893332413185	286.506419296679	247.504198063293	233.047541132048
	198.795112039249	197.947433984294	176.176392369178	189.853136769155
	216.457866890673	260.370285504512	205.966111721195	190.871696848118
RELL2	150.48236051337	148.323729699672	164.89597889259	145.265512354674
	235.291035302211	165.904887259203	197.565122821625	193.48293264444
	156.073428882485	211.916602665089	184.241640200823	221.027562527572
RELN	199.947823264085	181.941224633917	157.11867820027	211.809434609469
	119.717408713154	123.306499698566	121.778756075848	121.636361281148
	124.469415593643	115.392989580183	115.734230176652	128.195916531413
RELT	136.068644730893	127.930072902878	130.169291786693	130.724642809645
	124.17231659571	123.916497557628	125.79193748535	128.129780978486
	130.729989463558	130.712515995658	141.332402615602	126.611663427876
REM1	157.546123603057	182.545896049446	133.218742606195	198.522123898437
	125.861564323476	114.906396746556	113.025793645043	119.249084967945
	150.620603731907	126.301178976594	119.261305304165	116.363556872071
REM2	153.378150559081	169.940177050294	151.121293928309	155.172667450053
	140.943732564849	165.808660192901	147.150063462728	150.0674092434
	128.551335256123	140.839056652898	145.308548379215	151.674143983846
REN	119.950579480571	114.880348648147	122.766778018066	116.989409891761
	128.044165393924	113.810645407837	117.523834738903	126.526489290128
	121.311836944721	132.677272839165	159.655362710407	127.274768398849
RENBP	281.49247863022	315.130912368929	260.278595572575	526.970555181851
	431.093544964576	187.519053043173	142.255657518926	190.389158930835
	316.237519859859	139.6391154169	162.416774743901	154.764283765316
REP15	141.76964678852	146.181764812924	166.780319723055	158.185593294878
	164.160608039304	141.571389983164	138.285325970867	139.880733465536
	168.180063344887	125.400741907779	178.072538529634	164.164463389212
REPIN1	412.048097766066	513.662594875431	563.339837352678	
	623.508710830895	774.180202250076	538.369868115137	1144.07896461196
	750.494286476465	1026.61404215739	273.073938260793	705.020444579319
	657.562129888446			
REPS1	162.168246402027	166.671563123047	199.620978536397	186.939168482155
	147.027904536486	157.368974632451	178.347708009405	152.459041674768
	152.654938328424	166.868688936939	163.385727569154	152.101695555105
REPS2	138.53179773391	133.564350740049	140.334331111538	132.508133846896
	181.37137053478	137.299908075811	151.508738608925	163.340435089911
	158.594064857041	137.944260488223	201.186963432715	147.920946479942
RER1	330.321113875647	328.401537339876	339.012225830929	355.714202328378
	690.582550537485	398.892968579918	562.089999265955	399.537363692534
	467.90388853336	376.791876040886	486.778046640624	471.315730378641
RERE	1047.2693539616	1115.34267967366	1160.25775445193	1500.16816750361
	386.960778432157	402.026356201632	433.314881387431	451.621888586656
	565.97975389646	207.815226999953	638.287221212947	329.722135361491
REGG	419.690542859168	490.464012303239	535.041545916303	452.961307006622
	148.938822951404	163.54669668396	149.473505461585	160.099731578122
	177.630246034993	177.083095120017	146.887506793665	142.700311964178
RERGL	354.981966077502	705.311256840178	246.533813165981	481.238450505207
	140.26557508894	133.850733997442	131.989955864584	156.194996994993
	279.113984512619	146.406344338757	119.774204444899	110.475453268997
RESP18	133.621325902558	133.399632102473	142.296446144179	
	135.693520183014	144.492756323647	142.971972776388	164.160608039304

	145.684294398911	148.592330216136	127.954231630338	125.712260481294
	137.981446468611			
REST	137.846463796994	147.15999706579	136.37481047902	141.164985468046
	142.348246621217	140.401508808129	136.969124414576	150.761696482387
	146.692827583525	146.563078818674	149.636887782574	152.528571776589
RET	147.740657356905	145.01322767825	137.20509387214	145.44629057846
	153.488903967311	142.402227523617	138.317443162096	152.516485296644
	131.46193427125	141.356127724777	146.64560446484	144.088525606919
RETN	121.942777234608	128.84738760112	172.758230728437	143.399877326927
	133.97321873161	135.59027155522	127.404415477384	134.285191872099
	139.256416415149	158.072347847051	116.558752619296	130.779805222363
RETNLB	142.501655618849	148.764956861822	154.420795931034	
	144.529801006864	165.307808075027	159.946124520038	152.47429737104
	145.588981165456	146.40033464957	154.354658146438	150.878323882503
	143.893751699551			
RETSAT	237.191866335979	217.778414825515	350.22221782412	
	227.926444925478	333.131139447511	275.252966071473	256.99019407912
	308.877027622691	231.202047619476	400.845137156678	251.588748783592
	186.625452120269			
REV1	607.979208454176	606.851072672402	620.371912523332	510.285766295993
	339.490955270138	560.180656219785	591.437752991512	479.469659712246
	407.052451784773	478.606567465979	688.464980326689	605.437395034282
REV3L	199.149959995133	165.471587934831	204.103018614608	140.763592237598
	110.003750007057	151.865924163231	144.456324230938	134.074425424613
	137.358139652612	147.461480849333	149.975892236985	144.432181150583
REXO1	225.850439131864	236.899421827427	221.916075811355	297.368197598038
	300.675907594637	274.235001739215	299.935166870211	255.413231082357
	232.918330930051	157.898632788579	271.897511879509	264.383922859446
REXO1L1	119.627380812035	108.955761698524	115.389934936253	
	125.134516902118	110.735199684144	120.406577236405	114.234369421536
	106.629065516249	111.448871835514	125.021217009254	132.161764435769
	117.958297137758			
REXO1L2P	131.468537312778	129.875986080057	130.242779079309	
	130.99564079691	140.225329742578	133.146347243168	140.014167357286
	114.400185930969	124.460064642088	141.939368369872	134.361064431414
	134.785623496928			
REXO1L3P	147.129702047639	149.879951192667	163.788418732315	
	146.336371857755	153.907737500104	139.408234219133	128.102787239877
	148.760280320258	141.202092246048	161.806144472744	138.681348536008
	138.489443610941			
REXO1L5P	134.865577264797	156.978585870854	143.211127738941	
	136.812841133892	137.992477770842	141.33919297402	136.19725093985
	140.074841537258	136.691234705997	134.031960707639	148.448349327493
	148.65131922365			
REXO1L6P	114.358099210532	137.834158814913	118.269780903508	
	117.445284668654	119.702874945404	129.920586100555	136.184427467391
	121.027465953657	129.687743133943	116.664031217378	138.317443162096
	128.268241654928			
REXO2	2462.87034563426	2061.9164323309	2694.98079256089	2511.04500638697
	2558.91648313228	934.173273294189	2197.44189747261	1836.22560264874
	1982.3154578939	1825.10168716051	1896.69856822105	1332.11815966955
REXO4	450.120868656638	434.855262284265	458.282682131641	537.216291942143
	560.481802403627	320.360917595936	433.82566459288	369.198837083585
	569.353661326724	493.071213662125	150.224472335504	341.761516859319

RFC1	381.57978490093	398.61164689194	467.04976953755	395.261210769232
	239.704459251571	303.138041758745	373.656487297238	318.690043546203
	358.654569870431	379.016207754533	338.223462327622	308.208276315292
RFC2	174.775676782795	168.682307349713	176.371404525626	163.066051106092
	183.894417745549	191.814634229865	180.518621542868	217.050602253281
	204.415267938007	229.594081405784	159.936703616817	236.809829701921
RFC3	147.285764611006	145.625205055601	145.229637715814	147.433388299999
	155.715728894101	224.588225855066	162.022232949254	186.345823604119
	196.399050990244	187.833356349429	156.702300398105	199.776140037612
RFC4	250.060734219351	228.499052416183	264.805236346895	259.426050921239
	486.425387717472	341.819090221654	383.682951666155	521.215655189324
	623.508710830895	445.95114929414	259.796092536601	381.808809625801
RFC5	206.571433405844	214.019190624184	197.2893692747	217.165036362034
	412.648926259488	319.490670412394	357.514919818489	379.862305342147
	427.345809255426	381.740838644647	306.193157874683	313.248029961291
RFESD	157.986640251147	146.070871543153	159.046016068252	164.520247586053
	155.798048652444	151.801558435863	189.528686948872	146.524138043215
	148.482530949134	171.826623289946	178.563665283267	161.670800376344
RFFL	191.322056430728	173.919504730673	185.984938124891	166.346572488391
	184.801068553988	210.882890077598	185.31769184805	241.353916553991
	210.478088018501	165.307808075027	185.507663455634	210.478088018501
RFK	146.215459988012	146.165632086981	149.516743790585	139.625635881693
	134.85590586532	138.56812029378	141.466287523861	139.611455791957
	138.603793282123	140.885012530186	152.182968451691	133.731500722599
RFNG	344.247544510881	369.156887999872	350.077206368839	428.340060893467
	638.77182631975	324.067396271281	528.098472417251	493.715108157171
	300.83667045718	315.689865927834	283.191303666907	404.445038343721
RFP	262.452869676209	271.568797887976	247.746304138866	262.861105654051
	273.197814995543	284.940858938629	394.186683910377	219.246271924313
	250.82359383789	211.692743811486	761.726829618132	269.006221210929
RFPL1	123.170639180926	133.374199939042	140.659276788384	127.209043595332
	139.260868989409	131.423918669689	146.775403409562	140.770705453805
	147.113541493157	153.200153031275	164.208044717557	132.37450516592
RFPL1S	120.094156375538	130.488972210403	129.977863589097	
	134.877046981678	128.663320241092	128.585911203394	124.720004905439
	123.977467396003	133.738587139139	127.229854957588	146.007311764212
	127.215777044942			
RFPL2	129.79093244374	139.847813838017	124.521130036013	133.832462719784
	142.073529553425	131.809235171629	138.483436753942	135.673080643346
	132.088335186716	126.203255277356	128.425838805072	136.539849534341
RFPL3	135.82038791723	140.321675137237	137.744318243173	132.897554980037
	134.955823960889	143.247977741752	138.466136108202	144.411176964424
	131.216673806987	138.76667538162	125.596067857941	132.079255703621
RFPL3S	129.253638326633	130.657342262492	124.095340478326	
	117.590393673861	136.008118769513	138.870636101334	129.603952706231
	130.33205883588	133.238296113721	118.465111174212	136.330636532576
	131.036225888592			
RFPL4A	154.876638004094	172.259627777465	154.843607752473	
	175.767556472012	162.834961996238	145.917220112846	147.205511952997
	163.586549438955	148.975112606364	171.022976593689	159.867178630115
	142.768691899824			
RFPL4B	145.281664250703	132.291157461345	140.701132362458	
	143.519786615253	136.011474063229	129.051642626091	137.805436529896

	146.488402397597	138.562576783507	146.803549606737	141.743873995642
	129.43892498257			
RFT1	120.418709541104	126.216519704249	125.14833026167	120.964862799634
	137.913497715424	116.52455193626	130.018928906449	120.39039576721
	137.609831343223	136.402156383599	151.26137860684	127.729912390394
RFTN1	1235.75946952752	1165.05055932899	604.453803994875	1007.41624313399
	311.806908624308	482.344514972063	341.2887754025	506.290241222253
	960.491731797061	1040.29664343743	397.307515234646	648.161646065464
RFTN2	309.538690289233	249.129943906228	222.332748220525	236.164692035094
	124.752198904184	162.668896609848	117.928456234796	161.490941000872
	155.218336968191	169.725534829981	184.672330560677	118.891276329399
RFFWD2	677.802147190757	633.594811068524	628.710901107436	617.318955611228
	1232.66885974069	900.039744829725	955.143610867351	1692.01248523526
	928.151632070573	604.237898104299	834.537908087672	1405.2134783352
RFFWD3	276.830814061474	314.486603134656	238.461248099002	284.638865013916
	460.089380701982	537.419316887523	409.477576085245	618.829716818725
	650.494111214312	611.772512110915	492.780880796036	784.72162514331
RFX1	320.936905584424	299.170431746759	225.730739636442	265.028512407839
	478.847650837714	233.690524419327	234.214191437687	261.721726664029
	305.451247405518	290.135914275115	294.033003779363	268.111403429364
RFX2	213.877482604185	231.890885094917	165.003646188775	169.206723147505
	170.439725847568	128.649329515033	141.15458637181	122.716563069312
	125.429085234515	126.428284589412	150.95033946042	120.882166798648
RFX3	142.305484770249	143.774841336279	149.164469334038	148.905860943967
	146.67875644027	142.501655618849	139.094167748687	148.551340840517
	135.200049257744	146.176240539176	135.173464753848	146.276706674761
RFX4	144.81320329947	142.191569406599	144.903414594588	135.484360570738
	131.025725443485	137.337681987169	138.416716745934	132.953762692926
	140.567565996849	134.487476333464	150.215811815246	136.80943340993
RFX5	390.501797367707	378.151202933526	428.66614441422	425.969575503375
	311.208703262497	283.27806319488	291.779980648289	568.935113269368
	431.019896339435	275.929414239664	504.709613434391	385.522443482
RFX6	149.867541008113	151.889644436875	148.785977829275	142.137885203233
	142.024171830924	163.661196423902	146.479009988445	152.301556397498
	142.540433565262	149.153827025981	148.253612913109	145.864902319111
RFX7	667.892385395063	776.98412594767	723.250763797522	733.86133557115
	630.670530516275	849.784051720996	1103.81439809121	697.774882173237
	839.324324662619	627.803400871547	1033.03719406038	953.099915501575
RFXANK	245.811312606484	256.291984914927	256.614964511846	
	332.343558229873	381.740838644647	317.244256751418	326.962330523237
	328.550286726543	264.779154931102	320.936905584424	278.219561902233
	279.834616502591			
RFXAP	155.828962183804	158.708054164813	166.489436134841	166.944701842349
	138.866469244936	172.80265044721	146.501559368223	141.770977101211
	178.628885995439	139.242481781927	158.834483073542	160.828718858381
RFXDC2	129.138035235415	160.848201202361	140.083495854322	
	143.905680376268	126.63730651721	165.665796569389	140.805322576253
	135.373824773008	129.389420352857	121.107979534361	155.069048442532
	166.606522485953			
RG9MTD1	181.803275243281	177.812335593522	194.789918629905	
	173.260348096238	216.903719298575	257.534293550585	269.300548648755
	249.234065130083	223.872330412144	197.72068061775	209.913460781088
	248.594000664466			

RG9MTD2	160.553214127047	150.991991926229	138.752600540409	
	150.232470359841	143.917152377544	201.676984786688	163.141010815086
	186.708059183893	216.05364037271	153.039237274992	182.453722105813
	162.638805580226			
RG9MTD3	227.689356258276	207.173653740239	258.695920967489	
	223.638850960288	177.549330396268	204.574706925957	200.456087759904
	186.1961391235	186.999459152483	181.294497402507	193.554028681854
	193.660159482867			
RGAG1	128.753623886188	115.29099102455	118.461037435114	110.925532078514
	123.773753287854	120.735176435195	117.692662275393	115.090463537716
	115.520278378747	112.309528593741	118.076139318165	119.112063328364
RGAG4	144.924212639731	150.391286215189	139.880733465536	140.357427912361
	117.15886922795	120.138014822486	127.524310543779	122.27785621724
	119.655162437465	115.417648857825	140.074841537258	122.392159083328
RGL1	1586.00600118477	1481.24705642453	878.167149313285	1241.59946353857
	277.726756691133	698.590134238302	375.189005729903	381.182514249587
	557.513306351027	437.344765185802	460.807117177285	334.350011399462
RGL2	269.345125874858	302.696004448559	255.839878446312	358.975346234854
	535.49374437073	250.060734219351	330.143103381406	240.511797905018
	275.543576337502	231.846509449829	385.379119927642	286.901115411673
RGL3	143.004090696463	167.186780161168	179.203783335674	152.826356673175
	177.343586047942	165.027938535393	166.850279817976	178.717719615544
	150.331324340476	138.56436658053	172.050718136571	184.954673605577
RGL4	182.969563278473	172.612152484322	158.319248599976	154.417731984391
	176.75095377028	148.951632781748	173.09379121032	164.377227860031
	192.209344004015	170.313045875402	174.338440780636	155.868109161417
RGMA	439.928008927647	420.95713139384	373.452370692334	600.838420404663
	165.320977593677	214.86995782548	194.029961195972	191.628693083169
	213.966288689715	311.449205777595	177.415756020166	183.081450609516
RGMB	212.147155923729	203.544294328395	193.892810132985	229.230239609291
	157.233463720262	160.906550609416	180.994249258457	161.316521450944
	156.098240321674	167.521700144143	166.108206159312	167.949422301257
RGN	176.830879422227	175.262884960324	271.713695056313	182.397795261147
	131.029333093048	147.664505309713	143.470181156799	140.16233428205
	146.764908249803	150.035890574132	148.570769470645	143.175483349968
RGNEF	124.295334523889	120.565485864499	125.150706047419	115.00776048097
	122.804934452095	124.217337143269	123.794432024417	121.736056336879
	127.661634554996	135.507247740621	149.269417496936	134.216088147701
RGP1	153.992763544073	152.393260140571	155.108146847158	153.494456800685
	166.688771186254	127.527378949803	147.550385608773	156.926617030752
	150.875392181869	157.096799934494	154.455641374384	176.049946762504
RGPD1	132.70109232982	122.696382705233	132.075718397284	132.752401872376
	134.601565799073	125.848597767733	132.132474135959	147.808262170269
	164.910911528819	134.744175117719	165.009696356892	135.688346453694
RGPD2	129.961042190085	122.708102546276	142.101865506094	114.441223528256
	118.465111174212	160.57963709333	134.187456260969	146.6886556805
	154.300058278533	144.12472003202	164.678646890649	149.933919274985
RGPD3	134.769926504916	137.194467539969	161.688125121941	144.725650040212
	125.386545354096	127.945144368504	133.628391175037	130.191876914166
	133.755609587969	120.418709541104	135.679481480408	145.517559593811
RGPD4	117.436119533535	131.774882989257	136.362144891335	129.928047362701
	119.645983822002	134.475296383752	133.689255383855	141.836648910979
	146.785478478701	143.256590560776	150.761696482387	136.327014189932

RGPD5	133.74051512341	137.974323288786	138.159966250659	132.966873990501
	134.178733595096	139.904952662852	133.216489794592	136.022614387461
	138.919240037475	136.301442794928	134.635645106042	138.728765780512
RGPD6	114.768639931659	120.915108114673	113.199690522854	104.285022032604
	106.238539254093	128.783262618114	100.841352336505	110.562310620515
	109.817705421158	110.16174213285	123.386622160181	104.406314027414
RGPD8	184.954673605577	145.122171099946	216.209052148435	154.091431691072
	139.289968250444	306.486275677467	171.180188911669	189.784608429624
	214.617852048151	244.627091189503	164.15288821931	237.78482574225
RGR	143.974551393951	164.109321257638	165.919497521143	151.079500558067
	155.710272937386	166.803359138942	160.131256419524	151.338765231607
	144.643770374264	150.734560844391	154.187420367647	153.815239954928
RGS1	1651.68171717875	1437.5568316065	3510.24464112094	1660.70040058102
	188.891032176388	864.547109080675	274.891033696257	591.013515828247
	571.439520427295	890.810315261602	274.831898505989	432.515970951769
RGS10	495.241179224412	456.038981546175	495.438672949441	445.089930641391
	276.138650967632	216.705908017858	370.877260088621	401.102586700919
	534.276129011237	344.070947256963	270.462865174106	307.768302846647
RGS11	305.451247405518	243.65518489122	611.208083466988	352.50679573356
	149.09398454596	174.09267813338	139.837616209536	158.150949554785
	155.924471321076	140.462651395483	133.745413210496	149.4401812
RGS12	193.569894919176	193.245087824217	188.444498848767	193.641927801805
	246.552713031445	183.3378528327	343.200277800027	208.42712014566
	230.469548500304	313.480307434343	300.150235383065	280.127735578097
RGS13	146.440630638891	144.413210364148	143.517327774456	148.096551269076
	139.730999352036	137.076766238637	144.129889080946	146.040995022257
	145.741465098455	141.345379144177	125.738320262644	141.166605868578
RGS14	135.989816139218	144.570725886413	143.816567683093	127.540848073484
	152.244018820259	144.345080865349	154.452964510369	150.088034336851
	139.900523831258	142.436624546651	134.4811029314	135.379284233708
RGS16	163.926432479673	207.298994298453	156.467759630936	165.731179108649
	850.562379837947	677.503643398297	680.509421043347	376.276954313674
	202.819949307954	194.014764659513	204.237952297239	272.770616373687
RGS17	219.619022209985	268.724338967108	203.652936507291	216.880896769751
	240.410292351169	163.396651801661	429.351447428661	292.145553580042
	166.850279817976	653.047570485109	332.599191067433	489.75389978732
RGS18	137.808307749725	135.190698960212	124.153063838817	126.464893786922
	130.285187693932	128.429007921588	129.075693654369	161.338215647108
	160.567934923347	137.745887988474	166.89285636895	136.219537152338
RGS19	212.497773003032	200.618080312379	193.786889748038	170.725486814469
	507.040326298457	358.355621069787	397.985856484851	303.858574395969
	426.032234135861	330.590986934704	449.408793796673	457.130051460676
RGS2	6851.54963413886	8958.34797715349	7699.37963536892	10135.7800994367
	240.511797905018	839.901173743755	304.636618563775	779.922653392712
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	119.422996538444	117.555999801887	123.259322051795	118.289405191861
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RGS21	148.510023599641	169.612203020686	150.769819282075	143.061415008831
	146.65668813596	148.149216812602	157.50873249647	152.798927898416
	149.37190049932	161.683243808528	170.835513021958	156.01406297447
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	146.652641667543	170.099045774947	149.586651393588	150.709091532746
	165.500088159872	155.951509643078	114.574362093931	146.934990457666

RGS3	135.271290872348	135.031430487047	133.192757350144	129.938723074546
	132.550022967297	139.691470247318	134.257928609741	132.850601603567
	134.115085057026	144.12742465348	137.102353661381	134.235164622221
RGS4	173.735045816949	227.965783945702	166.674240866931	167.858490180471
	139.750281709938	132.092910274836	168.73918684069	136.173596381385
	171.254015232189	420.95713139384	136.881019970399	169.349922114861
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	192.96586114861	1014.23822508445	170.590817818414	450.468410589415
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	129.740166478951	137.17370871536	143.377902352319	137.499290547619
	124.666487633365	127.640525889316	167.941671074236	137.466291815166
RGS7	112.227434965199	128.745737514912	109.016991399605	115.920514336615
	126.563876945046	127.123123583856	114.618608815885	116.759526220736
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RGS7BP	132.303506517431	130.215290990406	116.572001618531	
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RGS9BP	148.729753117861	152.511331178337	148.060086496148	
	160.247370279802	149.190528937822	119.922676683808	127.385776388242
	124.548598801497	122.232732968363	122.410340121549	130.847215795313
	116.828333047376			
RGSL1	138.60849268758	125.639355645626	142.461941376108	144.458829225668
	127.251594986725	132.953762692926	130.009322405768	133.876636039037
	127.687299576139	120.37619371663	122.232732968363	135.095095470362
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	156.32137627012	167.341759854203	152.534482748598	163.146581498065
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	518.925188630246	370.227329649269	392.824840252824	469.407481002198
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	196.942880967705	157.494596757446	174.02138265758	171.16807372519
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RIBC1	110.333339548402	117.820996523337	119.221976571036	113.112450527382
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RIC3	184.085616342099	176.328994356625	234.588584245938	158.579717282881
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	151.981708806765	147.891442774921	149.398118078302	124.025104622631
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	179.61374889626	229.729195963667	181.914505612128	202.44778603643
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ROCK1	246.152798696993	226.701637237203	235.530986541549	232.801257700571
	143.53550972177	147.405050592353	151.796986456254	184.530853446688
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	154.918405633244	143.672118850295	152.528571776589	156.695440330379
ROR2	709.136137559152	745.153336165802	628.485648053393	983.094485868275
	118.970693476152	135.648906382608	123.789035728194	123.700076467648
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RP11-529I10.4	254.9636051363	247.899467998443	239.419200107721	
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RP13-360B22.2	153.184575380093	141.205975588506	139.375386456759	
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	123.650702461773	124.794260959228	152.06044555622	132.413527125434
RP2	126.391083453973	129.198366503027	136.881724888516	132.631819830347
	126.25011972597	260.157440518033	143.978912435831	204.787016443123
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RP5-1022P6.2	256.964577037118	244.307627077001	219.351080515508	
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RP9	403.984761333129	475.833242673151	548.138527647594	516.577357935963
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RPA4	190.125009931628	235.261278607182	195.88263399968	182.515302191173
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	185.706228572019	165.177036955944	166.223079895236	199.397633942623
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RPS16	22354.1731362334	22872.0444589809	22035.2646000952	22872.0444589809
	22872.0444589809	25002.6870134094	20989.6494028551	21315.9767866977
	25558.9005130606	19661.6741558107	17749.5685495445	20099.9833491654
RPS17	10449.7190201942	10250.645112753	10988.2836796736	9470.58919937464
	15297.9020958577	12022.5515181682	15116.95436573	10250.645112753
	13902.1067272762	14983.8256502293	15603.3490258675	14037.2575989329

RPS18	6470.73189429877	7802.25987814138	6484.36742084268	6737.97308530049
	10765.0336035748	9192.8966763778	14544.3732040823	7969.0710242842
	8514.94395408164	13902.1067272762	16974.4822983201	10360.162704111
RPS19	18862.7632438112	22035.2646000952	16742.6286866851	22035.2646000952
	26522.0142925211	23053.5660790052	24377.1316448061	23656.0669757593
	25808.3502428915	18862.7632438112	29868.1819370827	21315.9767866977
RPS19BP1	559.899430596368	535.041545916303	649.906677394861	
	640.255747986724	1116.19403476786	654.881990232975	561.379619105609
	568.310800941091	632.843164522867	463.622673539254	506.290241222253
	601.164127925014			
RPS2	4793.22133852447	4892.17875938832	6188.04738762584	4404.79209330918
	13142.4763966378	8163.29201165065	14348.4009261372	10661.2216586049
	7902.9189607838	12877.2152068971	12283.9915232122	12334.7921691489
RPS20	16588.0599171804	14181.1182110192	13902.1067272762	10417.5218406801
	11709.9785619141	12171.1997841553	15745.699731183	15990.893941344
	19661.6741558107	18287.6015702456	26522.0142925211	17009.4268910772
RPS21	645.806954296487	654.52788411248	782.746481112316	619.380514697732
	1777.29626660109	3046.47354587949	3592.7878705048	1510.77099418802
	1694.24232555141	2518.88171283899	929.69741581954	1334.69145271749
RPS23	2328.65814406636	3237.94149351627	4323.76731419005	2210.67250954072
	514.61297221467	1673.5387396582	764.493610798958	847.863177169335
	424.855168311509	608.816123736392	822.545007054668	1001.65849130836
RPS24	9560.32907282993	10862.3952192141	9251.21629832018	10632.4185569238
	7631.6124232898	7122.07276863122	10024.4662743012	7930.82679738435
	8596.90650022148	7468.70895916615	7342.79622458743	9070.86397918429
RPS25	20099.9833491654	20048.679735668	23318.4614981217	17749.5685495445
	13645.150201952	14348.4009261372	20647.6275450554	20647.6275450554
	19189.4835303597	16480.781374867	26375.3000727296	25002.6870134094
RPS26	841.944755849006	1007.7803477458	886.157279090932	608.816123736392
	1447.07989164988	1118.28423222707	1015.10079945997	1583.79384467611
	1639.76556136383	1132.27988339924	1948.24432908972	1041.58583268313
RPS26L	5532.93454600454	6960.46610781696	4635.42002659719	
	4929.26915002209	6324.87600301793	4602.81651147558	3765.25491426198
	7308.57540715512	7585.47289520004	3843.07094386605	15809.9561036761
	3677.23129570773			
RPS26P10	266.442565636226	276.434192872962	305.200911653347	
	213.634295832535	321.177982468322	317.121202656311	280.848426993226
	447.059120541009	351.998551165704	313.708197191587	1235.75946952752
	252.548942594125			
RPS26P11	2782.94647782764	3078.76695443407	3103.4192907748	
	2083.02482378721	3862.57980488881	3630.80752744347	2833.30537635103
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RPS27	21650.9263365935	22182.4877079778	21110.9013462062	18862.7632438112
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	21551.9994556128	16974.4822983201	16480.781374867	20989.6494028551
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	17067.0086403248	17404.1167486753	15603.3490258675	16533.5738137081
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	18061.615487998			
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	1297.25632532536	930.25842384208	1535.27496251381	1832.35076992253
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RPS28	8787.57716309558	10329.1999331936	7354.94071109106	9219.38828280399
	10608.0671430066	10608.0671430066	13563.1694195379	11554.7330886956
	7519.94306346326	9820.93899217345	13090.0615116619	10024.4662743012
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	18720.0460735814	15297.9020958577	16179.0939169232	17568.5229948989
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	10417.5218406801	13423.8921651885	20099.9833491654	16480.781374867
RPS3A	16328.5991894287	15420.9668207676	15238.4097431619	15238.4097431619
	16642.71853486	18862.7632438112	17975.1602090863	14454.6736124756
	15420.9668207676	14592.6308255978	17211.1455384358	16179.0939169232
RPS4X	3855.33040541264	3890.14358014877	5748.57645553386	2468.47687203968
	1889.05071563459	4425.66777919789	6339.16392696068	3855.33040541264
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RPS4Y1	4359.98094976179	3149.26998719015	4847.77258830631	
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RSAD2	277.256341592701	162.312313953026	189.887788314879	169.482586449402
	141.5739152922	144.773767973816	235.43707989982	167.268645224361
	175.626096716758	189.985520850855	181.79418355897	180.528296177577
RSBN1	662.958637409597	690.903797251841	699.270931701696	606.851072672402
	391.326200093611	728.930140593418	574.399909181723	486.778046640624
	367.567681162661	261.844708446856	483.699436940387	404.172535442156
RSBN1L	281.44159425243	251.665539319612	325.43977732888	
	239.452559981542	244.054469051058	205.476230849391	239.003718699156
	277.501071684448	201.954167006591	182.384190694142	227.715558644326
	277.596303701405			
RSC1A1	146.499065641095	151.318320077986	133.988494850477	
	140.03202338666	217.646777099512	171.212749388553	178.304914997023
	188.308588359317	195.50039162477	231.202047619476	215.219246394594
	157.568150431884			
RSF1	218.156162474715	199.70041209487	208.214764518526	159.074001164836
	155.176714087209	144.237691418911	173.907933001446	179.74065086312
	159.752644678596	146.54504551183	218.896760804208	195.577739376082
RSHL1	141.420747583126	136.069631519097	155.522274777451	149.355389396683
	139.709959820327	138.365589511693	164.929445749888	153.114065147266
	142.607578275494	153.943227610765	134.498439965049	139.251886500377
RSHL3	147.46607538135	143.629760301493	137.740497848238	139.803568564059
	143.378998368344	146.506263412584	139.623194916971	138.334626498686
	145.020615552964	132.75673287656	141.106863165059	134.445893291422

RSL1D1	840.276501350383	721.31849915135	1174.0922389136	
	678.937151822411	828.683748921915	865.435843446989	1119.71228054585
	756.618969995355	799.132592914065	1260.50387106816	607.805002786409
	945.403379196643			
RSL24D1	3463.23822434026	3042.88425356552	4759.17973319588	
	2258.309161111153	3298.73393277409	2850.98525554116	3038.02573182546
	1413.37062765856	2622.87486749984	2372.26073354008	2979.27692778783
	2104.59597571915			
RSPH1	112.776764215618	118.348153875356	120.816130267055	118.117957479382
	115.002176041974	126.798976470472	113.76411537952	127.500754400224
	161.72730923536	118.215641556163	114.200099628087	116.221426977629
RSPH10B	143.568691825659	140.784853736558	141.505120938773	
	139.793683692104	144.574566623882	143.853643511287	147.28750335168
	141.232464220879	142.126620107418	137.393871430276	136.387904287903
	137.22727238555			
RSPH10B2	142.093180304661	142.00857631537	155.086559474139	
	131.038758046782	156.437949042181	135.42020418391	142.17773831901
	134.445893291422	148.513451315042	132.158817539201	131.85737847837
	140.171749368266			
RSPH3	225.238369884803	219.661502916874	292.893332413185	178.647726085678
	220.079379312889	192.046442148183	250.82359383789	202.041958613989
	219.996410908721	360.605223912114	301.250189051376	298.301504581296
RSPH9	163.51024840263	152.14012587515	145.844961942581	143.184697704389
	168.418529261977	147.882530392424	167.025336068642	143.458937009197
	152.746799687103	146.677241054745	152.821735300697	158.080749926756
RSPO1	139.094167748687	132.664984879523	113.597215383696	110.718864165172
	118.167740643871	115.101971719657	110.266032635568	114.209249333221
	129.656088836537	112.736231367296	136.893392154262	111.389873428517
RSPO2	190.66473033826	158.439409064812	161.365443930448	135.952202055637
	144.212231875922	164.513371267476	152.340010735322	142.970256312313
	150.46224324459	174.568253693395	161.182901898379	161.129770392464
RSPO3	338.026161865853	318.06081614151	342.147414141627	342.315456386729
	172.652645920958	159.922627970233	133.762141373091	137.132095345234
	169.16155608071	181.941224633917	140.802033706122	154.783699020901
RSPO4	111.62514398781	116.236538651031	111.032156655273	115.520278378747
	123.622533094122	115.174678745401	111.568329540016	114.987285062108
	116.639787832302	112.57049236673	127.585851003779	111.152235113722
RSPRY1	1430.20038077595	1075.3328563531	779.022508413529	
	715.039905439621	488.505191823403	784.412433571927	602.141151173094
	449.952497751758	650.679096367632	473.370240289761	870.409935772423
	593.090436323333			
RSRC1	163.946569217706	159.838626443912	183.531156021887	136.621654800082
	250.602978521808	152.954944775793	195.963361515546	313.536451935268
	257.534293550585	255.71113398292	181.453575300661	163.500384982242
RSRC2	597.651682540611	569.133295913677	641.774812292709	562.387692458382
	378.4377409749	564.200165295159	586.366632966978	626.104755496369
	564.948126039762	569.133295913677	268.885346595453	617.185364180303
RSU1	559.668195903429	560.015499136193	612.758976723556	714.494228450456
	193.544035570799	253.009376944901	199.378179817518	212.050953977485
	198.737421468412	259.625943627223	242.269784551092	205.381840116054
RTBDN	126.611663427876	126.630787911053	125.342580368417	120.696557306298
	135.508803488048	126.702705908175	129.949894903048	129.187574143637
	124.825103464238	121.402905161896	132.387242907281	125.768053724055

RTCD1	267.372241661758	246.049729366987	375.539588956213	252.697160031025
	311.481739745423	376.791876040886	660.907502776003	532.235193634196
	579.318912497928	796.936154737659	364.191263843897	522.300029971277
RTDR1	138.469997677004	133.836390935612	153.299196905367	143.752697178913
	143.73525260312	127.323157914914	147.365589667009	124.285969778268
	132.275953817076	144.433543176593	109.806338826826	149.416411285088
RTTEL1	169.864628707043	173.250350363688	163.081050585097	186.167877791105
	193.245087824217	179.854800301573	181.157738347957	158.967160833334
	158.295583769612	170.241254308841	172.965746521132	168.091278015885
RTF1	169.733427590141	175.891947478891	183.193029399643	188.131876231735
	175.302832015761	167.040031488406	147.376482709004	166.17959304455
	168.841313096346	162.668896609848	181.183277133224	181.479652131104
RTKN	158.747029092329	166.076692502428	155.05329654089	168.156002330441
	143.598567970841	555.607185132941	155.737364431382	166.868688936939
	164.256764783784	362.306819797508	149.294728629784	146.851307767958
RTKN2	137.698423468762	124.28313315915	141.499192356469	161.581641777014
	148.551340840517	166.722369066673	160.70138318726	157.736101691222
	143.116451998409	139.127442770828	139.249869918235	141.301503201175
RTL1	142.00857631537	150.123784990646	162.606273401226	139.236217474885
	153.114065147266	151.604093626944	150.148902196995	153.655778377717
	160.825408895349	144.199054675488	148.729753117861	142.290253129837
RTN1	146.559502785264	163.081050585097	149.560505078257	148.23392074197
	142.253826696208	153.714902281332	139.127442770828	148.364138636002
	149.331805754859	152.291176493005	151.821324922628	146.016920431468
RTN2	155.456077670662	160.254101852355	155.893018702615	192.399146702036
	182.453722105813	156.822477235844	185.41739522833	141.50968031684
	147.182394557583	148.585224298375	180.437648146588	146.238333981318
RTN3	395.049127927637	416.933146258428	385.522443482	381.014521577291
	215.426918011158	286.431013744652	206.391403266202	232.105867345662
	219.351080515508	275.169415154893	222.508914765788	197.827534617557
RTN4	2063.42824094932	1713.93035637146	2005.76678571689	1583.79384467611
	1140.40904196731	1029.09818399518	1557.00226259883	1227.36706427754
	916.026216386031	1178.83933381069	1386.56788941677	1115.34267967366
RTN4IP1	231.314944217099	229.907632927358	255.992494620859	
	248.185148749493	291.50783830983	240.836979012241	273.152907354565
	274.70018535436	254.768537214795	188.322853571195	218.106150021482
	289.761702484888			
RTN4R	169.441789096441	183.482640529727	203.436527043293	190.534176839652
	236.745054217055	208.237011955037	212.473610495213	188.695527267631
	182.529167529936	288.596513753617	153.888212689508	221.491633607126
RTN4RL1	165.954266127697	200.302384864371	168.790464803746	
	159.544710238172	148.260672564835	158.025633316671	149.164469334038
	166.040918339519	149.061464748604	202.943987922418	161.781529659549
	158.670835881902			
RTN4RL2	140.184082384548	146.981521393075	149.260811184287	
	143.281050499332	145.814268094808	146.481298877242	154.265581535942
	145.296229550382	133.36168342199	144.974813243462	141.18490443471
	141.971207380159			
RTP1	176.810979494826	103.448244268961	127.578272480621	130.797498958616
	158.950169226637	121.689416823766	141.982743538528	143.376817049362
	143.695901115673	138.026155846749	156.046085830566	147.713967317159
RTP2	117.316790136526	127.320624058583	123.735827460404	125.958139354095
	114.893462783007	117.834484996559	120.450111018432	110.286187184448
	115.485515429446	114.711310011993	151.102431192559	120.628904050564

RTP3	140.602170750673	144.895601314903	142.89427871125	133.627389970495
	139.217113811817	129.751916520201	143.222342904886	132.74579603362
	131.454955038299	142.101865506094	137.282038401275	141.724442944322
RTP4	155.810034593382	137.987255649072	125.94880312094	126.786434897401
	252.894371238554	125.9888344762	325.999687273862	188.268774618164
	429.812058546782	144.478339139298	447.297590650141	281.071129128589
RTTN	308.281798808746	359.703969802888	407.589300080181	351.337287690674
	240.182016388745	297.332272659995	276.284517459626	300.793542873709
	297.862653495715	691.916554922896	188.797908601851	290.582957824549
RUFY1	190.331589656379	184.306452616482	199.854728619468	189.552385508772
	167.226663395855	154.562761981868	188.654966029389	168.906637816046
	172.28937151007	249.193270428348	226.203994206714	205.987280015028
RUFY2	153.582185523361	161.608941774391	158.554429311951	147.428180649939
	143.582187466814	143.290642777702	157.288308753975	153.974384951787
	141.970301370404	148.109847175216	164.766295057217	152.364417528975
RUFY3	396.212732639272	373.189809737885	430.649188209901	344.737964092526
	239.388546850124	244.307627077001	267.901632267999	234.484787292284
	243.159062832085	391.252450588331	257.100909006193	229.443064589306
RUFY4	123.478896502015	125.617143363441	116.241531823869	116.881212516879
	113.064645688715	122.149756212115	122.197625748146	137.729777643977
	124.731056918418	127.000175858468	116.134550788966	119.555954372381
RUNDC1	413.330906392915	376.124744806171	379.911829623463	
	389.381039495553	326.176058036757	484.131020584378	462.686385881492
	642.255110250493	514.124012546829	315.565349831797	489.260272645085
	444.712990986138			
RUNDC2A	269.831616158113	238.782040902727	265.110264596425	
	300.675907594637	158.723133891017	188.767121505943	143.92831903543
	159.730925830278	161.813099560175	168.618667871117	153.118492567137
	160.499355902773			
RUNDC2B	139.611455791957	135.894512504725	139.941724115063	
	122.621839614189	161.501062527272	151.04846635538	139.571752933877
	130.858419819734	129.210356735226	135.613240463445	141.67277923437
	138.255457081996			
RUNDC2C	756.246712133116	731.513306289481	623.409211766224	
	785.008529077795	293.12968694683	461.581199513891	329.023836559229
	369.906476027936	293.482512212153	309.36704220687	430.649188209901
	274.047586063773			
RUNDC3A	125.234097725749	116.214857935694	110.315549501241	
	116.70650322987	162.178410412809	166.447510782568	108.386545220984
	115.795989631016	123.538037290702	131.125175244494	142.836229345273
	137.627338682823			
RUNDC3B	329.604568691377	348.848550937417	192.737713851863	
	289.21739941764	161.769370009823	245.900840732668	166.735962853075
	156.904781904311	147.978039160763	181.193963616037	150.232470359841
	147.171090285223			
RUNX1	152.670691262738	160.35668299062	137.066799877341	132.758313782606
	179.54034642468	206.585387130993	216.102897582821	234.980382243116
	207.384408045502	184.937088280378	326.758278851698	265.470314691221
RUNX1T1	189.461090469712	185.997327421952	205.871133967588	
	195.547320133122	144.165277164871	151.535177950367	150.767158077219
	146.336371857755	146.343230597246	154.579913524947	143.662865541299
	143.754105312957			

RUNX2	143.780803045394	133.63022526522	129.818020166075	126.711037295629
	132.119370332298	132.719730606922	147.973274498131	131.512174491572
	129.848276446896	140.191954630636	143.881744063934	125.400741907779
RUNX3	179.880812358974	181.135519188216	147.866011743792	173.892380305166
	149.899789105328	154.548286860883	190.427022049167	217.094085829328
	324.067396271281	182.109092947203	177.874821397216	173.372949622338
RUSC1	1222.014210447	1470.23096656138	849.389818300305	1451.64055568759
	2050.34883263932	1940.42283070543	1003.36623972843	2307.82327595071
	1030.56836625083	1853.20812924694	1518.13775377335	2307.82327595071
RUSC2	407.052451784773	494.175437345451	362.095074331893	600.635914090365
	148.729753117861	137.052507691254	124.83124879272	148.299945894738
	125.932540615682	156.71199811686	157.848456517169	123.786227856015
RUTBC2	120.131839791515	143.061415008831	149.869314204354	
	131.866599432062	135.807494668545	144.883597913037	141.062226285596
	131.649830934459	139.739448838436	134.811625739766	117.279162323013
	142.34471764492			
RUVBL1	178.496344474999	188.490807652188	197.91325268683	
	198.166270627544	363.777212750779	309.155070674445	262.671819506189
	316.237519859859	362.019824026781	255.74096237558	240.792557915987
	271.113617350982			
RUVBL2	337.935183275743	289.474517971859	348.711663415777	
	360.90109922539	1049.52258147141	486.778046640624	418.574045635945
	481.751102333172	614.957397883514	529.228238133018	391.252450588331
	527.294087043601			
RWDD1	1610.38263368771	1379.95968831696	2014.48411650613	1473.70433292382
	1101.66868138797	833.198511430615	1473.70433292382	1000.48723872058
	779.340880980422	1415.67109281133	1395.63393859192	1337.38160266788
RWDD2A	323.95355217044	255.3451781862	367.898258897888	
	272.117599603586	254.424207773566	279.325065941252	423.607299503704
	312.177191402945	269.072221443403	256.820546409632	296.603054615145
	250.602978521808			
RWDD2B	197.100205890532	178.52221226882	180.132104305583	
	217.628802427037	184.167124143272	202.214495168688	176.516540713888
	215.558688906165	190.331589656379	198.244854812728	219.394500571586
	209.840035045167			
RWDD3	199.96834355685	216.522992914538	288.026656721827	238.782040902727
	203.357914242777	219.792171863015	221.719848707318	226.893147371644
	214.639374741553	270.462865174106	263.64863646012	256.424415389574
RWDD4A	459.068582584181	422.590112942156	438.146919555296	
	418.889972660958	265.572253407219	492.377642058095	376.54010486682
	423.045329000756	351.02823853348	478.293220151258	429.268202514543
	442.220572301795			
RXFP1	106.522641798274	114.384296185446	119.492844191924	110.138220982557
	110.662552491706	103.99234480919	120.574820369421	108.483284007316
	110.347631909888	137.910618360623	134.362834437771	129.522339467532
RXFP2	129.391376518208	123.662678397678	136.711382832269	128.533900744619
	129.190900922265	137.320792454356	131.814528687104	140.760983862166
	136.988519762443	131.067958183644	134.121026382437	135.233957017664
RXFP3	117.893918180502	126.656077572961	114.129044806825	121.434713764246
	116.977202125093	122.281263517691	115.572088632106	110.419222236698
	114.805810485989	122.365693072105	122.873661677648	126.037968297611
RXFP4	139.078162119733	121.841080387875	125.331215990597	138.27272971335
	130.617505834747	145.090639086338	134.546975273631	128.883828419932
	125.717328918165	124.746457912284	140.103020838882	150.232470359841

RXRA	1375.76915021882	1701.43479420427	1366.06309834426	2041.03024136014
	3570.21370790206	1347.10650016064	1637.66306286151	1376.84058291266
	1840.14350831655	880.719593734606	3205.74787769881	1758.7809492929
RXRB	610.337659723539	669.124699103132	923.383014892221	806.591035100794
	826.771587455122	489.75389978732	668.127527385348	579.318912497928
	638.393099392849	582.527835746927	588.197697799448	500.643499051523
RXRG	123.312000381122	119.567911704298	128.39171386085	132.985645792864
	121.952255635669	119.399971165857	120.819163462986	120.574820369421
	123.29908883119	119.281300456243	138.182987173284	120.988749021323
RYBP	1609.54149931375	1447.07989164988	1006.69598892631	988.297682407351
	1285.02292965374	1731.62376348283	981.313778685019	963.343120586863
	1006.24899131914	625.544719251096	1418.60088387728	970.634736994313
RYK	683.179460779062	599.735180191091	799.132592914065	561.761160223609
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105.31352471598 110.820329153348 120.822923434486 109.098105822556
112.693431140524
SHANK2 138.052032298683 145.136075215082 124.566313603935
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124.261531006131 128.014092519305 117.097159106043 180.327051100611
155.974463324915
SHANK3 483.174262289559 420.647394044431 259.511314588868
369.198837083585 246.88857694249 371.457568934695 182.798526632723
252.222481637238 290.288001750744 304.292209676095 229.835576260403
265.670643951648

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	160.203521879896	158.171302275984	147.074807267102	151.81754291846
SHC1	671.821418586421	778.639512538949	472.514017604645	824.746488539942
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	177.306794546105	176.47556448977	124.466986821169	141.132694466739
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SHC4	137.438984175012	131.31716158922	118.866073031304	125.236926572282
	127.247764390727	122.005340508177	136.758262322199	117.724353829377
	119.551741097918	126.398884382537	132.737464610403	124.263901299025
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	169.349922114861	132.591496435822	141.38612990166	129.497266827284
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SHE	204.5274881834	206.186324475847	159.036647992998	214.434355263652
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SHF	165.186696781985	171.660157220703	153.709230037306	196.777776509371
	156.481871341275	141.565599104245	147.584176709986	153.062710222618
	148.607885635446	133.76515446791	148.707332454527	150.72014060286
SHFM1	1262.96801072965	1414.95226752155	1478.09582385838	1118.86225415732
	2414.22821062457	2789.67986601883	3522.61692270848	3042.88425356552
	3115.11499025766	2521.58055221647	2466.36457617864	4266.92715355342
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	115.231121959397	121.71538073735	119.608334527504	115.845468537936
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	160.806678614325	176.410016510249	269.379272725008	236.326943078666
	176.953099943185	175.617504025145	205.322733011516	142.157512965166
	172.8993416872			
SHISA3	188.431244390961	185.544411160039	184.387409077972	
	193.275162354467	142.14654303591	132.70442458261	128.917399281607
	134.397255719047	146.470444212748	135.647660756548	133.006192351471
	137.999190557332			
SHISA4	175.847256673734	173.408784502027	160.562164904057	
	172.583615020042	184.332299740724	166.587100972754	154.874899874233
	142.25795237339	152.868787961804	172.091884817207	168.847039069786
	160.613630476912			

SHISA5	2036.43904731226	2032.50052162637	1232.66885974069	
	2074.29945034697	16742.6286866851	3348.7622174821	4548.5418978622
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	224.92725876841	565.97975389646	214.4829383264	208.869189492052
	223.81987303579	222.456810024193	196.691380885508	157.717145014769
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SHMT1	171.358746749715	178.294972422671	160.390564881326	165.342790388607
	259.229153662504	355.372836460906	196.880135762817	343.307036883726
	245.426639190893	310.690317681243	313.641656294638	162.317084707395
SHMT2	611.208083466988	771.059329972125	512.723592291378	687.789976218334
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SHOC2	468.060528109338	477.626693328013	498.180196203245	366.788087591332
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SHOX	130.135721123253	122.644105247178	126.802963197337	125.396523818173
	127.55397077248	128.432188632218	125.677019190255	126.423739360894
	124.901759819007	124.29420915051	122.97487285065	129.725706669166
SHOX2	138.005168756932	144.856801451884	132.674061422332	139.866536599877
	144.968459820523	134.193482579542	132.245217686793	142.903851392611
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SHPRH	160.43939815269	166.998311158378	168.091278015885	156.090871391873
	160.32812671237	169.764014031526	168.682307349713	166.88833169342
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SHQ1	198.285073991956	172.157660228549	176.070695522397	189.509062639279
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SHROOM1	154.938900278679	164.455111983634	156.290018816692	
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SIAE 138.829793136954 143.484004107893 151.577450119302 146.481298877242
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	123.807693112932	134.774591679724	118.584773788416	145.412368252632
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	167.70368494182	141.320571086026	143.532014058535	143.383697128285
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SIGLECP3	128.140333650496	123.796657561057	111.196610704726	
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	386.221302830248	704.152296359463	298.926727289387	375.407747753058
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SIK2	162.923734210933	157.976810829398	132.629453540571	154.546460872415
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	132.855812035005	124.548598801497	150.820808770853	128.713131994442
SIK3	914.654262296682	1001.35912007916	951.371815352591	900.233783407148
	368.637819994033	345.977609212137	247.746304138866	451.718912714608
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SIKE	147.54950981909	153.07993334035	169.36029946801	137.510586346207
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SIM2	144.30699572795	137.024230648861	151.660152977515	144.090047165489
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	357.972320648217	395.588345893987	477.626693328013	379.387095129725
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	326.417021307859	187.572517928061	252.280435525505	256.202924421798
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SIPA1	316.165926273381	324.713347085998	287.402339322061	340.42197893246
	752.142287661845	324.713347085998	474.216057978384	372.475112554793
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SIPA1L1	178.262619516994	152.547558436703	163.159571059471	
	160.75642485037	187.057683141644	173.09379121032	178.476483428474
	168.660907237558	172.750926094884	171.494975393562	170.505553609318
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	152.743680985848	165.836534881802	165.954266127697	200.08007665693
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SIRPA	753.654626233604	661.826149512811	350.658722333252	683.861021234927
	235.162439885207	195.141733146452	197.859546367676	252.761035334279
	373.760551592844	659.673052713372	235.933451977398	263.058972886829
SIRPB1	107.816312357067	117.943511615792	110.242638217587	
	117.990622156287	125.9713489569	123.02546895475	118.308102542942
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SIRPB2	123.488418655586	116.678969343492	126.823886603295	
	137.908991199407	131.613738869093	138.831297375659	133.542620077059
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SIRPD	152.452246595937	162.940190224943	165.100811808026	148.539881077647
	148.649619242172	160.73807125195	137.877756077011	151.727603285205
	152.207601283271	173.611295051326	174.663845688179	169.720414035325
SIRPG	120.270397272069	126.069594320759	122.659174808512	126.115828232308
	125.342580368417	121.072192130078	125.326393776938	137.408247668043
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SIRT1	496.328898534802	466.58966852405	507.137104111742	353.078842299761
	230.079664410595	296.051639873628	308.621688157016	292.037861000784
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SIRT2	197.565122821625	212.396522888943	238.548578086943	245.042781391047
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	200.591916768948	226.623172906957	225.99848688881	162.536009333787
SIRT3	135.007473769551	138.341918073941	131.050255325564	138.808591995741
	133.44592405762	125.079330440615	126.741498575874	131.436176224725
	138.850077456103	138.684070773064	127.749992538985	128.824243581806
SIRT4	149.593135821045	162.98885109088	191.554396977588	184.014707797674
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	127.811923445503	115.157321350379	126.533083459283	112.729141678141
SIRT5	205.495823410422	198.489278156437	232.986366625889	205.08372943071
	200.443940449586	177.562561297777	260.591336959281	204.802810257516
	215.84044779962	195.141733146452	234.094722315007	238.509970054862
SIRT6	187.607426452073	161.951996906162	141.613898853625	143.161623642178
	187.494677180331	151.110467345727	157.032746784217	138.383183017683
	161.790909578234	140.509950286228	166.674240866931	151.367402326399

SIRT7	145.295447692151	143.279331050175	153.311705636864	152.251128595777
	238.149614104568	267.67093646012	254.447650810819	374.9555524303
	306.277823025572	248.761038207278	220.217745732407	289.474517971859
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	125.386545354096	123.038646914863	111.708970469189	130.621860095981
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SLIT2 1870.52504853779 1402.14708471728 998.157643452741 1227.36706427754
165.880071298733 192.61436632814 151.045803695015 159.311949668403
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SLIT3 1515.38811502277 1206.59866455529 689.271009631393 1397.84878368705
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	162.37762946664	168.982086590306	156.9540270155	178.657325741035
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SMA3	116.07902130325	115.884253217495	129.233595525585	139.870306695324
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SMA4	460.514672966125	348.241471067257	774.997895985917	241.383657414248
	178.584378959369	422.520372346993	301.955019831714	389.800620731411
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SMA5	162.063689419737	148.334425146129	189.528686948872	142.268018184723
	133.631676386591	159.845890841215	160.98571841915	159.046016068252
	154.143331594812	189.589053840976	185.525760847281	201.186963432715
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	144.73389393695	155.119146797226	170.01557699913	160.92643755328
	157.6811998968	158.834483073542	142.383723965616	156.873097743717

SMAD2	155.813740201987	166.917552275021	175.717830026564	160.211460008777
	154.611011734772	172.562162872242	166.415922313464	166.430881793156
	162.37762946664	167.370030272847	154.79534193124	160.937256625847
SMAD3	841.623780229898	740.196934996626	639.011144305614	615.058712877418
	513.428413503031	556.31484498921	1019.627634011	412.129826478453
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	826.08372791138	683.655205499779	650.0804221227	591.013515828247
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	155.828962183804			
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SMAD7	243.691004557778	250.18189549573	235.183590602209	188.308588359317
	242.948136060281	178.000672046849	264.273245283343	185.046826969912
	322.153713097778	210.103974340881	339.98018551524	228.713818522476
SMAD9	221.916075811355	179.203783335674	208.291714758548	158.380964047483
	128.563180697606	139.734784859495	141.721829342179	124.541257225826
	141.902711692778	134.545983176488	168.161117444474	129.513590304528
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SMOX	170.684848540493	171.909358721737	157.952018720438	172.28937151007
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	123.791515424464	126.235567899449	124.775529469869	122.729918525032
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SNTA1	611.088604425595	628.344122779625	708.056533282983	927.478050257292
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SNTB1	235.063474370925	235.162439885207	200.001438979007	221.272872023413
	116.388079393669	135.931715324468	119.95959059725	199.597685421675
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SNTB2	1460.24985399013	1180.7055699511	995.812184456562	1124.67710585154
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	293.986292438714	309.997909440664	356.323554000768	398.796188440256
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SNX1	283.014222473749	260.224777636733	345.38424761963	256.424415389574
	136.029898048127	190.165771406362	193.315380090713	194.617252921731
	223.154771092064	194.240372898704	274.534901548678	273.303240462047
SNX10	158.127523362251	150.680628549529	145.784526088216	155.3016514732
	261.89195025254	181.668090319293	235.563592256037	212.460476372263
	281.659653592151	237.191866335979	167.304721591124	236.141982516399
SNX11	279.598585549004	282.652193666078	228.125521373477	327.749926183823
	347.3483417873	270.727749014046	333.822167152866	326.45984882427
	325.252108402192	266.892524131545	333.439929772897	260.554343693588
SNX12	130.933379257307	143.539741029895	123.069963218224	144.231539210695
	204.5274881834	134.10070984606	127.800634041606	124.484589975207
	131.08389186558	144.808774137749	222.77938191298	130.068063785009
SNX13	191.310372695208	184.204036882642	183.482640529727	159.879600154928
	278.192669077191	221.359331823286	315.513423195489	252.957489543915
	196.053808536366	254.722836822616	300.765518378297	304.713434036642
SNX14	254.424207773566	263.084557246752	269.194172034595	255.74096237558
	363.539983343859	398.796188440256	488.14606875418	398.61164689194
	256.174286655796	372.594990024312	804.800251415824	451.718912714608
SNX15	133.807992913171	145.298109334141	144.595393134144	139.664055668127
	149.842326869644	121.807661901776	136.372712400493	133.927844489731
	137.48217464385	140.85139374336	138.401406375804	124.802639338573
SNX16	246.616749748028	212.531329857909	207.850956786183	238.482863150124
	155.158028043823	192.418895349837	169.022351348819	164.319378349317
	154.061101136889	211.535720730612	131.926504315744	147.059096208832
SNX17	1035.0797237176	1185.70008959602	1120.87534972745	1356.43255022363
	2192.17997650999	876.783710734594	1166.86593572716	907.904780399957
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SNX18	125.141185839817	111.286141277084	135.038195181839	140.493975416335
	136.722636695506	135.550882872661	149.267019532847	134.55255098289
	128.844026422327	134.772545694636	123.159407368236	126.798976470472
SNX19	320.597495751519	261.426617866925	279.668007824988	294.808980631295
	211.104243881644	184.102171963542	155.162310001164	207.453490385508
	163.753434774656	197.049616858296	295.851459742115	235.563592256037
SNX2	578.811908030805	596.3549500121	986.972987865318	665.106631364961
	369.198837083585	532.394088545421	768.67030514096	679.557656724243
	692.359779743985	1127.89414462606	562.543347322063	670.571106793204
SNX20	116.342242990651	123.551225884748	120.456817031716	115.995309578182
	124.672483602517	118.988269692812	112.78323842342	113.568261995787
	120.585506729733	114.867454554206	127.218362452043	116.378552206652
SNX21	209.004374703564	211.766884719761	188.36361073603	226.565823278767
	194.637233028442	157.021010130169	158.396149470397	134.76586363177
	138.913591568111	144.826861308997	168.643026828823	135.857403020659
SNX22	230.161369375718	248.03801051527	273.152907354565	270.651318838953
	250.82359383789	213.93763684072	235.997227173296	236.745054217055
	228.9901869793	258.012234458166	212.890259409988	242.787656836745
SNX24	171.579123521304	157.612067634423	153.230304322351	167.764352429391
	161.189717452004	137.933986165139	183.969897305028	162.505305538911
	147.260260687975	292.068293167526	158.536178747273	155.569733738768
SNX25	206.428618912264	168.854819201403	221.411372022459	186.033093285894
	159.06002608158	178.072538529634	205.804144075374	173.204163917896
	182.453722105813	201.365457496683	170.67334244323	147.038700869156
SNX26	364.022018936132	396.126485121994	492.05680879106	473.947538805454
	228.968779778407	308.974786799114	255.225145197422	283.952604729032
	298.347201056937	292.468585109951	190.825209733575	407.442337662943
SNX27	1471.01897242089	1764.53168329081	1701.43479420427	2390.41825815872
	710.531876484467	926.670867201327	801.52891824571	1274.39152410752
	1059.80292026589	839.901173743755	710.76653239801	1014.23822508445
SNX29	314.337680575998	347.3483417873	318.690043546203	379.862305342147
	295.851459742115	207.581907737176	221.070448906398	247.899467998443
	233.690524419327	216.24497587588	250.037172478288	194.092089507551
SNX3	1910.08485008041	1685.33737186733	2684.69013589621	2001.92441724356
	1809.58702081877	1294.18114559128	2496.17211592866	1825.10168716051
	1689.00127592755	2900.55309635211	2365.99940149374	1870.52504853779
SNX30	242.348427307994	212.050953977485	227.32463765717	208.42712014566
	201.593025256991	241.105817192695	237.961826989344	259.826625866106
	283.377663208926	253.601378730911	458.705688226305	202.643624039869
SNX31	191.665827345888	291.056913909578	290.502085667398	181.294497402507
	766.710479603963	1313.89440013246	788.244353085369	1440.14449872047
	2502.72913594103	213.531307836195	2288.63508719706	714.494228450456
SNX32	136.749771286979	138.953926269905	139.82050388626	144.826861308997
	137.326796995017	134.527165454543	138.032967032276	145.239119337981
	142.385902610309	135.279197125157	137.689158155552	140.779962389412
SNX33	255.770193180874	287.145105895235	220.791884858764	277.652851236546
	458.440488401029	204.574706925957	308.38513924253	185.46843333826
	197.191648960563	349.248144552634	321.568127272161	244.251315474587
SNX4	392.539157974899	343.048904374136	360.551560710852	289.368511254335
	598.095370768587	1158.88528996131	663.451243037105	851.221199352646
	922.877217016704	498.641091757363	611.772512110915	601.997464467917
SNX5	300.602422224047	297.368197598038	317.00629920068	261.639437655633
	228.649073045499	466.4890990178	473.151324002277	378.585058475083
	447.182566890086	468.93543246394	495.241179224412	632.278924237678

SNX6	331.888150158628	312.645778869254	294.410833087913	404.54681330209
	272.770616373687	226.020769172424	244.101521795539	302.532985701607
	250.602978521808	342.717252404581	240.12078342024	290.802509012089
SNX7	179.624208193114	170.758319048911	204.564770370164	160.240052678401
	273.073938260793	275.794847140407	373.361263985383	279.202256032476
	191.160340745501	266.71318061066	260.85776723575	252.138168292964
SNX8	211.941623411369	222.709720471134	180.179981672095	287.83303360511
	608.611927946607	211.22652563815	275.888299685521	257.100909006193
	238.548578086943	257.813193543819	191.146276657897	256.237185590901
SNX9	142.034369454643	148.563428310413	136.540568915609	135.279197125157
	140.890227770353	137.244552699212	124.828626063272	127.305306470493
	136.029898048127	136.86685787001	129.758303592589	133.966277922005
SOAT1	146.515240633175	139.027836356854	136.146383365709	127.0631494857
	155.388752614336	147.62157260418	144.231539210695	153.126111237668
	141.746976260176	145.472859089272	175.437651670246	140.377179372804
SOAT2	143.603022117503	145.095023408224	160.992494552269	132.637443692683
	125.215194276842	137.165966740473	142.563762845657	134.414562784832
	125.272796155561	140.125575976708	145.875240619257	139.430808017891
SOBP	409.691865300362	408.993744895434	399.364160668615	542.883453307
	122.007909794484	131.941069239017	128.561593533226	119.915330116696
	133.008987820479	126.124937863679	133.917283965036	127.155818626031
SOCS1	239.003718699156	206.149539851803	172.827288328708	202.797135825668
	234.531140131763	153.217287503221	169.927157878764	182.529167529936
	218.209523110843	207.417884407459	165.627852733455	160.105903942674
SOCS2	510.434895296759	599.52440136406	371.767182305618	523.073926509865
	228.901579068997	329.214958614925	226.960024551778	224.361277033882
	249.680729921602	251.665539319612	214.546528079149	234.531140131763
SOCS3	188.013181859196	240.792557915987	146.025781495177	159.009211991511
	159.009211991511	271.113617350982	167.125830254039	154.661456780865
	180.192015483309	252.593574250965	153.922713834296	181.966110264509
SOCS4	191.074428905553	187.380064367869	195.414464905232	171.345989796519
	175.428000742222	294.697622870418	184.493681387276	206.186324475847
	173.468958175014	165.597236278435	190.889832855403	189.174957940401
SOCS5	165.39758732	169.656238760589	179.704370382771	164.541417588646
	164.337486856997	183.764215745794	179.55905250703	161.724388995749
	151.397068235685	162.122250419992	165.926301648161	159.406462604758
SOCS6	157.87020867396	141.892214695902	148.913181799692	134.53215156472
	154.250656489421	138.778496466408	148.454344601562	151.387150218354
	141.835615574452	162.547569833931	167.298438019561	145.070927449969
SOCS7	153.807525239478	150.694215349678	168.170370963766	158.960488862727
	188.557113298055	171.967974673053	167.741556663724	158.483006541613
	152.534482748598	175.29178007783	138.780488114634	157.227118680396
SOD1	6960.46610781696	7354.94071109106	8532.46059476152	6760.37324850804
	5859.56559124843	7406.86318549013	8596.90650022148	11479.7406150358
	10474.0047946187	4773.62220024088	5049.57929757135	6114.33638002734
SOD2	252.171420358437	258.384059994446	280.798003990849	250.766180970907
	337.822337721287	240.439368352772	324.009703043876	391.644649726254
	728.176339659082	510.811470658575	338.510045856515	303.051124835907
SOD3	549.359675306309	456.656123023446	263.379982742085	422.840163973614
	142.307520290692	118.05386204863	120.527518013376	151.508738608925
	164.948785167149	132.137634927459	133.56263739203	118.797046082278
SOHLH1	128.659393756477	121.675007387533	134.966883985611	
	143.744075931566	147.391535316043	126.242935839683	124.288632450364

	137.360220389719	129.1829592305	128.697647007046	129.034770823878
	121.699702849509			
SOHLH2	150.587882657674	149.829363505519	150.868712184357	
	180.680595239651	145.368059425439	158.975786937923	151.354187593773
	144.456324230938	141.469818222503	143.426053070219	155.938283930571
	144.710613442383			
SOLH	193.358728044565	202.129153259445	181.823450464129	211.208937901871
	272.571092944711	195.033792280119	214.803167803712	210.77489002666
	200.204064462384	199.149959995133	214.904634494921	216.126000558319
SON	457.292146759215	409.743899750699	470.746477818201	390.573484082597
	277.026538720417	569.236322997211	458.440488401029	430.505037012814
	585.075322115635	388.782774926005	392.198487606534	526.182262872235
SORBS1	2491.33490046283	1710.60409578293	1965.13870083236	
	1850.98311401165	130.653971083035	154.528396813382	131.326536951329
	146.805832438977	141.809577413906	128.763176477983	152.20173979854
	127.101752724954			
SORBS2	1204.32784721885	1017.6969123529	1431.52979384867	
	1263.64725236472	145.63870792125	163.586549438955	151.2639801322
	205.244843885276	188.417078622503	162.337707154123	185.583997792931
	149.262900833177			
SORBS3	349.485727214325	373.803772983872	352.741885295157	
	413.084646927035	196.378888436237	152.377056383547	136.824357247954
	147.034021626893	170.974759483946	202.643624039869	138.098165515898
	146.900087470856			
SORCS1	268.961643716282	234.461229199142	198.374163029174	
	207.138680369683	149.288034848931	142.643027992419	152.498222035534
	147.502116289881	151.538112896642	147.006482557682	149.441862883882
	157.301617257941			
SORCS2	161.035985824654	175.704031930103	123.722744366103	
	233.129544542265	111.632811186988	109.438965262717	117.024039521425
	119.502758763438	121.219323788324	116.465213348716	135.061176512365
	124.536322123442			
SORCS3	141.71400004456	140.481148289418	169.999692055871	
	147.364301916733	144.494401248678	157.800913051929	150.063082731931
	139.532508621268	151.094682146074	147.803464591663	147.473875763319
	145.487783396345			
SORD	142.968008233583	152.432477504097	142.588013648337	143.860092956392
	226.114369645703	167.237705290905	252.628516068724	209.258707976348
	150.772752327567	204.862387642573	353.98839683842	189.070238523683
SORL1	340.800632878807	399.620724969771	383.626469817252	254.101184686036
	472.514017604645	686.679573646733	1055.79590411506	730.042712083388
	554.115756730498	215.897620927751	1535.27496251381	1658.78888936164
SORT1	481.630922092112	515.929937825133	553.368945998847	699.550347374567
	341.015631528464	451.210172051464	398.272713014637	317.273940108333
	387.908774438461	300.985037429772	368.0573385048	322.64731764456
SOS1	133.524698103972	135.735535533738	143.643259003393	123.884643288534
	147.635761512135	160.707290343231	152.277810621542	161.852665901359
	145.650356702429	144.615156175885	158.708054164813	146.683594365673
SOS2	170.446156541317	159.820341130737	202.193338797533	153.816782770382
	144.724040494873	165.511561121012	171.835438335216	161.12121879514
	155.035727630756	202.909188070184	169.695658738618	214.38058301395
SOST	150.014842228372	132.122273848715	135.804447076318	140.898380345452
	139.018588215263	138.144085131733	137.066799877341	141.169908353507
	126.148379057536	171.62327142765	138.416716745934	138.56436658053

SOSTDC1	179.026308021985	185.706228572019	150.784262878145	
	177.93138555339	159.655362710407	152.112177721714	154.928072022777
	153.45050352117	144.131743978192	143.673778816953	166.433933349193
	135.628982370682			
SOX1	122.327353563917	115.738984899365	110.784682137658	114.664782541261
	112.90900939264	110.774802298005	115.18875509198	107.91011371422
	107.714294216913	116.196676877996	136.62213567467	99.0767996209245
SOX10	134.401733295755	134.56134674893	147.743331160624	174.441287575034
	104.091301211096	113.262357892613	106.147993332294	124.915772594451
	110.594755513247	111.616460084889	120.521509788705	108.626570637194
SOX11	141.67277923437	139.613193302406	143.996350813566	140.646946425036
	132.832556359483	141.640292723776	139.258468432364	133.552141086987
	138.086270564406	162.895923745031	129.47419698487	132.346363545288
SOX12	129.801342433836	155.820194280153	146.090291252325	145.938780249776
	132.795064859079	130.080728694308	124.3501719829	130.122672154144
	141.770977101211	124.242539075734	143.784022884904	128.588822671032
SOX13	329.535023880129	394.101052511043	306.838596239511	381.625983354158
	528.921893077914	355.879841671975	460.24741151155	273.959220003188
	346.917113326564	234.301520483864	506.029788151779	576.636077770998
SOX14	150.0084730766	138.605661097886	162.15259972225	147.449186980143
	183.447807651728	149.599523779175	168.314966639178	152.099431258333
	152.08574341962	145.424827607383	137.779607093226	140.197487078987
SOX15	374.761007556839	396.708183244581	542.267204956846	377.353441970543
	146.094951139804	889.6617510875	857.090339943417	232.276667029184
	142.137885203233	2850.98525554116	505.704957182936	1218.05434595121
SOX17	177.72965427263	179.100368312505	124.897463208595	166.32555285213
	126.673587174832	135.040794634617	113.891385601095	132.094446606227
	133.864612785572	124.140880678888	146.105844205919	122.139832263188
SOX18	774.997895985917	1125.28599595312	445.348044448953	995.263014856158
	534.745066397679	730.34994035645	272.193578770314	746.777330152729
	805.120147618984	543.710330214344	458.607367472574	336.845908630493
SOX2	150.552186000149	153.19516365535	156.731291756066	157.826457203706
	142.563762845657	169.408892048115	146.334446516009	205.57572471694
	151.206697943841	150.412929574507	138.9183380982	153.326420485822
SOX21	158.384505840662	160.026178505749	143.184697704389	160.822287037366
	238.782040902727	163.426663985855	183.493455947795	238.400565506288
	146.984267484873	258.830885826237	160.898061905021	169.101676908756
SOX20T	142.409003426775	133.780423932326	132.141232809073	
	148.763098715961	141.411635093377	133.330215359653	144.190203286506
	142.236565028336	129.007924852801	154.057771254252	142.937182720493
	139.306122448857			
SOX3	133.35096649325	137.20509387214	130.71040889651	136.470025638057
	135.217240511902	129.865581506307	136.392389842232	128.331867822629
	133.807992913171	115.35376992547	131.215938257574	130.753266976637
SOX30	146.517645037071	143.031909545902	139.104796184094	138.695481214267
	137.634298014431	135.218648235324	134.983884722607	139.051656180599
	135.221786448517	139.697477263244	165.4474699807	136.687813884132
SOX4	417.262521411065	571.838717184447	354.405235378302	397.2528907311
	1344.1288416533	1479.69309189156	1171.62361359992	1516.97921112926
	1092.33328323944	487.993796425035	1399.41653736746	1379.26881813339
SOX5	124.783306383852	119.911515364639	124.574323079707	119.044902525459
	118.04359489354	122.087107663865	125.04156726504	126.083599163604
	124.317870455205	125.729079191033	138.647667867725	123.403099206878

SOX6	138.945855414918	144.249339611941	135.369146072643	145.28524062436
	138.223001481672	146.218767446679	123.588194516972	139.706279455371
	136.762273376313	138.753419730571	138.675023495021	133.067237748129
SOX7	172.169129806643	187.550461418888	168.205277839471	190.843795579234
	178.083311435916	240.147082836599	189.092674335503	173.640326140494
	147.074807267102	326.354469134694	164.295628750438	166.910561772689
SOX8	290.638110977807	251.011148303246	221.961758403614	307.728083981504
	151.780459290205	180.240305360865	153.653453808799	168.668125438154
	182.711318507496	158.550259547851	170.129558603697	154.924190468067
SOX9	153.873826757907	158.295583769612	140.427188241455	152.146033353926
	203.675655444583	149.341736870692	146.119700458464	133.737573120711
	269.448201975645	137.445344116574	143.030777754448	143.879597098414
SP1	549.162299481184	623.050854309724	594.713185954954	660.096727566678
	405.469705787631	565.609400092543	683.179460779062	509.292779821787
	723.640113902925	534.920870202582	875.38834441246	803.133619199479
SP100	201.931760074628	194.903531690239	187.993907528473	175.686248503777
	152.633139090274	155.30926640293	176.927500850631	171.880470629305
	202.741211613885	154.928072022777	237.906142045719	216.755681508811
SP110	364.113665301598	356.05426191171	324.615093103582	320.707687986324
	189.174957940401	221.82340413039	326.379855547052	258.075566417241
	380.562212796792	291.105673222859	476.917496749381	334.709049890042
SP140	144.386561289985	138.811681811959	139.353080958675	133.096984735092
	150.885460975199	146.785478478701	153.169450192935	157.615017085961
	193.148369507405	146.347213904792	155.219860096943	146.16125926956
SP140L	154.493246900289	155.715728894101	163.62582285753	
	148.835389500419	127.558034562151	145.155989928336	181.308852106289
	176.912121142015	170.350891928203	223.184064606222	184.365354978005
	176.236140830355			
SP2	205.830321788612	206.753993163216	197.378801636702	216.24497587588
	318.690043546203	222.508914765788	190.057030596611	217.778414825515
	231.915272112361	219.103510284905	196.676479140094	227.668046559074
SP3	341.128917971124	337.521614253267	280.337475979102	268.600782558985
	225.31216514083	313.708197191587	247.015574724901	255.493109705211
	219.638478100747	280.656087497806	283.874600697211	278.168897504985
SP4	277.406445570925	259.316557834724	306.59090554099	236.617896560938
	200.668298229815	240.376851873817	208.321765801227	206.571433405844
	193.832033192375	163.159571059471	254.607324522225	246.710233781784
SP5	133.480196904786	151.60113116166	143.177915754998	128.816610738922
	122.329290563769	126.017158064032	110.068122112671	126.623026026721
	170.342828808493	129.724604278515	111.196610704726	114.002925521932
SP6	149.8919086368	150.070213543579	144.930066324767	156.441368290572
	140.04612725812	202.230920499592	143.247977741752	155.164238647284
	238.230110356671	144.287786573389	212.147155923729	155.53992663898
SP7	136.497295707149	127.604087759266	129.108534267222	131.885529813944
	134.053685488055	157.787233338636	140.763592237598	138.323567041191
	142.658562927154	123.07559417607	142.302618019732	154.301338771241
SP8	124.796876920269	128.856640014006	123.538037290702	129.564482772168
	126.151017944639	121.75662526451	122.031894952046	123.227904580467
	131.125175244494	128.184708916755	140.293431620804	121.400652285172
SPA17	214.566711351899	239.845747958475	260.591336959281	269.345125874858
	401.189904619902	316.364342983155	258.348298226232	380.053166305637
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SPACA1	164.661445411833	136.72715888684	152.758653228708	
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SSPO	145.544996009633	142.728311130348	126.563876945046	144.892454033336
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SSR1	599.52440136406	619.223672253014	574.896304593109	488.379057110543
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STK3 847.276523445973 833.430847243676 755.42757464615 872.512754090023
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133.966277922005 124.907788504503 122.144209450757 131.800533523123
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STK33	169.101676908756	157.723341862468	173.675115244522	182.292947734054
	133.897397228615	139.308325848216	135.680872395032	123.732299841696
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STK35	277.026538720417	260.52593414721	268.78904911703	295.153786338687
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	288.913660405191	270.92671642109	272.314332734711	279.232290927348
STK36	787.874585290601	801.051513639714	792.101559967381	1167.72023351098
	528.098472417251	502.935749606918	700.353187874339	473.151324002277
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	781.790858580895	456.201998988891	1057.1528284934	510.972389503051
STK38L	405.130899553871	232.200025766422	241.383657414248	
	225.99848688881	153.02127620577	180.698727334322	151.783090997855
	199.135932984641	155.04585737344	152.303524109428	210.502556087175
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	648.38049615541	481.86545778383	794.636255515909	553.615252472149
	1017.6969123529	651.998433127992	890.507257588957	895.114975754684
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	1438.33289891548	1107.99131702522	935.042067053226	1178.83933381069
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	491.635435224507	339.843776738468	422.12964420709	401.87674893993
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STMN2	147.600825146067	158.171302275984	152.358795162474	141.209958892647
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	136.370317464946	152.042744996136	146.054535585464	156.157567405927
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STMN4	143.494511683426	143.421288665418	160.014635964846	171.844483419604
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STON1 688.247581763352 718.142991571468 1777.29626660109 1011.9675459648
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 STON1-GTF2A1L 140.630844296177 144.69686018715 148.656917603142
 137.345542507421 128.266906202941 125.143281492089 115.316430915446
 125.231476412101 115.137475087954 127.26820735867 109.552501987529
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 STON2 135.100687929821 133.270582482753 116.533361070234 131.965184111199
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 STOX1 183.779065928447 171.731395791818 187.625536724681 164.191906588579
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 STOX2 606.679284487803 871.268905562551 499.544050752036 723.640113902925
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 386.461076717316 348.241471067257 271.087125858775 200.371280127668
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 415.642099109855 413.084646927035 299.754985162237 307.264586007015
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STS	139.534014289993	143.5709409749	127.034985265748	134.255021727555
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	933.408902924063	541.258721278882	694.288215755716	540.584471920486
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	888.04996477314	602.371843434907	551.823767223086	610.070236234299
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STX12	680.250735532287	578.811908030805	561.379619105609	563.779294315901
	273.709160508205	460.941286124613	432.174413144791	434.325609889068
	365.727197088581	331.747622606378	543.933989965705	357.191675549592
STX16	849.389818300305	716.731984660463	1261.61611961272	769.586135629964
	559.899430596368	911.340266389071	1191.26028342929	696.650617523899
	884.747476952289	770.19255305977	891.637685856145	1089.16489859253
STX17	186.222567239198	176.364184489318	181.695203523798	202.887417145119
	185.233210060342	174.866036336378	171.994330847901	181.364325529405
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STX18	126.362418476129	142.487424651482	129.737882221259	123.974409226349
	124.213104788426	117.593226427794	129.541049979717	127.016845640004
	146.808519947394	124.103321614841	162.683665945044	140.150884219813
STX19	136.465185148237	154.8975607055	139.59941545613	151.473239782301
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	141.842919268688	317.309949792707	120.910703698292	152.371569700039
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	126.378952839132	134.336279655683	127.434873844923	142.907969322845
	135.518752716008	130.95176570982	110.296425545476	135.622888091037
STX2	543.170902795966	407.152764702613	471.720496000839	410.337491313251
	133.743708220112	150.496616601699	139.242481781927	150.817922696097
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STX3	334.199307788576	307.906312092805	269.100400678077	290.914381066573
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	1107.99131702522	373.189809737885	504.838017072725	688.247581763352
STX4	421.255522475862	444.082440002333	422.338508598153	547.817028243811
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	411.285747588622	428.850337327605	403.720036930931	498.05778289794
STX5	548.455251483009	566.417354841707	502.598518192729	637.30300219673
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STX6	343.270642449751	388.887050777137	372.54091392596	364.840751972169
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STXBP3	225.005311517365	237.825857080173	338.075238647592	
	187.15740398852	206.127493726541	376.189276074918	367.229293432041
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STXBP4	181.123571246557	165.870621884073	201.850932289186	
	163.227953876329	146.166710487448	165.570531605115	160.549597620339
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STXBP5	221.152973486208	197.02284475852	203.317264638828	
	191.207048581306	341.128917971124	230.589110372454	227.847614397311
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STXBP5L	137.926193455157	151.540744107423	158.344330353326	
	149.098381037466	127.648224668964	126.585679159459	125.095999326598
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	127.654130155446			
STXBP6	665.106631364961	570.26564132238	515.327420453564	
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	134.56314960832			
STYK1	128.377928524315	146.770267005869	140.912921321622	128.835216648178
	137.17370871536	116.844361858869	145.106362864355	160.945886507456
	141.706292773073	134.867806860993	180.3779211444	154.296467085914
STYX	138.586620636835	134.682319733908	149.135934269866	147.232015056035
	159.046016068252	152.942824158634	143.982561564661	141.166605868578
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SUB1	521.714719320355	457.779218916808	501.946140974776	399.724529998085
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SUCLA2	322.614169214764	321.568127272161	439.207122335648	
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SUCLG1 2127.22258112242 1955.96772733047 3008.43964505208
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	126.775180133301	128.377928524315	128.901707304582	129.228874611916
	133.42964827086	131.282091618102	133.869109970003	133.209211811498
SYNE2	170.164668347783	180.219813240126	154.360558958914	167.370030272847
	163.081050585097	177.132361355899	162.735609734946	167.500410857353
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SYNGAP1	129.626276841426	131.84454376953	118.401963042662	
	117.078720392441	104.483909687253	105.375878824562	107.205247133938
	107.049865500702	102.255408120852	106.772581387455	113.432757764419
	106.719519490874			
SYNGR1	200.017741240426	194.202977693583	187.389039221193	
	204.544266331066	221.027562527572	146.110545700163	171.481917188224
	137.303701514064	152.906352463546	128.738746025289	195.474525582555
	148.649619242172			
SYNGR2	121.79022464086	106.147993332294	108.530158480237	
	116.67463130093	142.234554325754	111.922007318017	133.470643135354
	118.180919555585	126.017158064032	109.209241676429	133.382099379709
	122.959518532165			
SYNGR3	113.440171712791	110.033746435328	112.714282429822	
	119.767154020462	115.816156193574	110.727742629085	111.886543737378
	113.656820701744	125.631073476381	125.905785653648	130.10852948682
	114.412739085949			
SYNGR4	129.984214994811	118.206034087145	125.121517583946	
	117.724353829377	130.854818615966	114.41737808857	119.701313125748
	119.876835248732	104.681530703922	115.914842445934	117.017844025726
	120.521509788705			
SYNJ1	203.206743799353	214.617852048151	167.764352429391	197.405472374722
	152.390371614602	174.515815532892	161.084088366981	174.491551019128
	176.317805247749	144.458829225668	164.955263076598	150.920224503051
SYNJ2	240.497413647633	199.149959995133	236.772907994543	194.734255772365
	148.638400592682	156.642441706727	176.267796612066	159.854639082837
	157.288308753975	140.171749368266	169.733427590141	163.821142892643

SYNJ2BP	2081.45603839306	2542.44286642873	1586.00600118477	
	2736.98692493933	303.907003535357	857.55777793754	635.37511798786
	890.810315261602	651.998433127992	595.882696498804	1334.69145271749
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SYNM	9881.69734721233	8787.57716309558	9171.47979464736	12615.8332290932
	157.010145291837	168.261511797218	149.274901871663	142.221542344035
	183.302479730653	143.961467163406	143.759171254761	154.455641374384
SYNPO	127.189310473419	112.321396616213	116.65880728655	114.874358180801
	104.36042819601	108.404733392914	115.235444833856	105.164790181452
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SYNPO2	908.352265585374	719.766799746895	767.662367310672	
	897.0125616892	142.613654158833	158.565676210997	145.850605495564
	142.03837243998	159.046016068252	145.917220112846	142.318709347082
	141.898948675823			
SYNPO2L	126.464893786922	123.341568893224	115.128667174745	
	114.504409331018	129.102182717009	111.389873428517	118.757973008463
	118.983932995126	123.375592272781	113.362825181676	138.45137517137
	121.988237521196			
SYNPR	122.068058346443	124.876226351169	116.043095688871	119.75069850668
	129.982236484842	125.171532277078	127.799190369808	130.222025384406
	125.578037001199	115.734230176652	120.799317509529	132.737464610403
SYP	123.738223146912	135.377118045038	123.58053320223	132.53122878527
	127.409603645289	119.341806810441	118.712730897987	119.288554466773
	111.525984720592	111.683074830042	123.129785564258	115.460136318681
SYPL1	492.534183006883	562.543347322063	717.886050056576	420.248838397618
	1231.37475540937	1651.68171717875	1300.40889834984	1746.30519466572
	951.772948602094	1301.61742965939	1071.47374315822	2856.14739820295
SYPL2	179.973655632636	179.501659253141	177.60876237572	221.491633607126
	151.134466830828	128.105527466559	121.628827418997	138.504398858454
	154.021906399992	132.602336133471	149.31184788671	134.260779370821
SYS1	383.259887828605	298.301504581296	389.260166168847	297.228563607097
	199.408907117764	178.476483428474	390.098830270926	193.292596471113
	215.673878830563	220.169099923628	304.636618563775	220.60173086462
SYT1	127.740057874561	130.582210755516	110.575582352222	117.611606270124
	123.711828013052	135.609239096236	179.785198362326	223.408447580188
	138.444427173667	139.430808017891	161.548130965486	126.825785762925
SYT10	131.592172917738	127.048605625519	166.671563123047	160.482734190577
	148.306990501663	125.526744092256	142.667173697017	155.731897985566
	133.077760160486	152.024383072265	128.818684264163	134.10070984606
SYT11	2280.20302441765	1846.61430264854	2758.01526530661	2033.67956299225
	211.609763150578	503.59466398882	261.39435936661	450.688800547981
	598.287431134037	389.381039495553	300.793542873709	335.013713757031
SYT12	139.442091671938	151.891318080151	137.062807038518	133.322752419739
	143.247977741752	147.604213625382	135.237042337721	142.64421300687
	130.455560026617	136.864106181375	163.432972512188	132.8310947234
SYT13	142.140247900227	154.187420367647	137.904786382385	148.104173238606
	159.446705611995	144.096624787142	162.212442593001	134.549628985766
	131.33321167357	144.023798119335	131.835171530369	148.895841777421
SYT14	147.821639002833	136.643481414354	131.702788057359	141.67550758321
	149.4401812	145.724294862079	151.418316929551	155.722314592388
	156.333133322672	132.475414208533	149.069732302093	141.256915527472
SYT14L	125.802927749616	133.711821318079	129.104084188187	
	123.420635380886	125.769903262265	129.125709963326	130.272086123019

	120.527518013376	117.166509072455	131.038758046782	126.87100632595
	120.046892432373			
SYT15	209.023926358109	208.869189492052	201.383739902873	197.049616858296
	160.143443392509	173.182013165174	187.097765940131	189.136114953249
	200.360518276784	169.752525994991	199.459711023907	197.326259802349
SYT16	126.690066353698	138.456465793474	124.348926304504	124.811760828557
	130.879745244903	134.774591679724	118.547605249191	118.677203713024
	123.551225884748	116.373841472226	145.323212897142	112.684334910243
SYT17	178.804669910283	186.161941811411	136.49035374704	129.933228671483
	168.841313096346	161.603317039244	214.068044241507	191.018168651394
	174.214747421898	142.729945734027	285.214585324341	178.496344474999
SYT2	133.198832503062	136.55090238808	140.000880942015	132.421863261746
	143.100436913184	161.80922869659	167.350290326189	156.609370182062
	151.169283505727	137.884051774657	126.943978009809	150.942078067308
SYT3	143.007237184254	128.389494971858	122.962219297463	127.895989232696
	137.670655293096	137.517461260687	130.63390061855	131.839890565869
	119.548432046443	142.736148814019	161.139253742858	132.7284396337
SYT4	115.923424095859	133.36168342199	99.7487411813724	117.494422663086
	112.693431140524	107.531907287727	101.761615925097	118.625070307695
	102.421174406474	105.816457443844	115.639101191444	115.718600552187
SYT5	127.633362302159	128.097206000942	141.862767428244	135.449919220607
	137.310014841869	130.116771999391	115.194730717797	137.599810249536
	146.869927141655	154.615097099186	128.518381802959	132.987389721592
SYT6	129.705735906962	125.780294378066	127.587379082064	129.57551086282
	137.706893763747	125.742631850732	136.380523452336	136.123129580618
	139.342430217926	125.624661345169	128.580625868379	135.999030570565
SYT7	142.650451413991	171.775741648309	135.421804561804	154.886628987246
	274.974304050999	192.980781927122	193.945494721138	193.412827246366
	634.774041584043	234.947745514175	255.793823796456	211.660148497276
SYT8	173.810080280732	160.32812671237	156.022967076728	135.763497910794
	420.647394044431	200.72147365413	138.35538364303	232.960832410426
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SYT9	164.181915898563	157.530573508003	158.030237507443	215.558688906165
	168.205277839471	176.382377784553	173.287859527767	155.902461107328
	163.298729857831	160.493314658788	150.250193889942	160.368226341458
SYTTL1	138.416716745934	159.620467672898	139.730999352036	113.799997627317
	849.389818300305	357.514919818489	680.250735532287	412.648926259488
	319.560819487616	370.390323116113	663.451243037105	836.235700891687
SYTTL2	492.637241687561	433.019478861638	272.193578770314	281.570685561526
	342.487952136318	254.359737178714	277.817786943873	314.845965872164
	252.957489543915	200.387623661458	650.911886508922	411.359106929985
SYTTL3	205.428900832926	205.630948393225	183.633719048831	199.933148219784
	150.073816271065	169.771005675296	154.908975734985	169.920799931309
	174.332913952768	158.411846122784	173.939159471022	159.824012085212
SYTTL4	375.767528676937	392.6758818959	283.701987275608	366.317263094585
	280.494088228226	252.789376168324	211.609763150578	302.021033686056
	238.904826940476	166.515199732076	200.264756078778	309.580750386386
SYTTL5	128.878051599968	130.378441113977	125.285502203677	146.290334865039
	139.285128128996	140.805322576253	142.888281750232	158.723133891017
	148.753891406126	129.195962576953	155.572357799741	137.065315360321
SYVN1	348.808646570544	399.364160668615	368.0573385048	421.836020491624
	662.373189001788	345.135289739599	433.189221987242	406.54518900348
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	137.299908075811	136.121343288722	139.071908528327	148.725162101789
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T-SP1	149.010477279209	132.110906510601	161.592528958127	166.285052506316
	149.204816953404	154.865107093653	153.248199842194	141.992490695142
	162.457778455279	151.577450119302	159.735182155088	151.067819234238
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	156.46322298175	152.192865138174	144.059368898969	157.675974692761
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TAAR1	152.577131215027	144.559193410932	168.37043566813	144.107029869771
	139.329693510525	148.767517078508	151.554352209634	140.958277301476
	144.035936160694	142.432995657729	153.358189612307	151.548865569913
TAAR2	153.399787997793	144.896960245309	149.108582827136	141.56459720769
	138.325950428197	159.524235332529	157.6790197503	156.763364462534
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TAAR3	127.982696242304	158.63432604978	128.019837242559	144.629350188283
	137.877756077011	143.560065338939	131.631968933144	144.345080865349
	151.540744107423	165.186696781985	138.89354244296	141.505120938773
TAAR5	145.241301006518	132.864018034342	121.396223519559	130.535859816562
	114.790717658188	135.271290872348	146.26936366452	118.060781901686
	167.912321820083	139.365595511181	138.276865331434	125.331215990597
TAAR6	139.271829906127	131.552276774901	156.852187451794	146.198331189991
	142.238908711402	136.807118099948	150.856917125736	140.995418231627
	142.545823714168	152.791390145148	134.346754381858	136.922282125029
TAAR8	151.239879652761	162.546620272507	131.722397988741	141.536764775726
	152.386986818959	138.828562311512	136.254966566424	146.892065987724
	137.536053775531	145.619570216377	130.970694919879	142.412731964179
TAAR9	147.988883293205	160.364644321965	136.258073395013	150.508851767517
	155.622257285651	136.308565710257	137.237089899964	148.263293819238
	151.273261581765	144.038859705973	135.317796804151	151.41546939633
TAC1	138.223001481672	134.503552797411	140.177708471199	139.685629122498
	157.560117350562	142.084294087481	141.398513269219	148.086979061158
	133.592691897675	145.365935017728	129.977863589097	137.398748156909
TAC3	123.927736719427	127.099995420363	129.01094835739	127.820096020782
	286.642323413104	132.297716337104	127.325087202483	182.397795261147
	200.114704018645	127.220812636148	196.136080427522	125.28279436853
TAC4	124.387133895009	124.168162885295	130.06068534054	121.71538073735
	121.047419779542	120.901639342731	128.050677475339	121.640681916546
	123.166013119235	130.390722272955	131.298129667973	128.17223916536
TACC1	6919.4226838505	7389.95365139168	7601.58151657937	8496.2506227676
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	3099.71798305764	794.636255515909	1931.16906839143	837.603727062008
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	348.36178568457	246.533813165981	334.377352542623	170.028047334267
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TACC3	150.191645194625	159.130076733711	131.223691762533	168.996965070202
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	371.457568934695	231.890885094917	159.561431866706	247.280717385562
TACO1	401.584032365337	414.267332328081	401.267425721838	507.137104111742
	453.058639550475	441.785666261936	528.556049506759	539.008286968106
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TACR1	114.638254225216	123.960761343425	116.421771593211	115.830631252469
	116.196676877996	118.442856984861	130.842257229979	113.262357892613
	116.300028266671	121.849460555655	129.573520898314	118.025603140924

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	154.136467767927	154.834679562341	175.073595611435	166.095964870713
	158.85003890975	163.726898336284	171.36717256867	179.730694272916
TACR3	147.442483242063	152.452246595937	170.091913791176	173.761036260869
	161.234304237838	159.758196845781	164.455111983634	178.320732186309
	152.251128595777	159.820341130737	170.737352030035	157.041481397151
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	137.429832103492	2708.20624364471	1980.4589291261	972.902937649492
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	510.972389503051	22354.1731362334	13276.1713779481	18562.671630167
	15851.5830405813	20764.6732139063	13276.1713779481	15532.9759169142
	19356.3155476146			
TADA1L	221.768507175814	210.729945718068	240.12078342024	
	189.348690353874	277.359422005775	589.240581642145	302.113807121396
	416.546844844021	241.168936008174	240.054164412429	288.182388699147
	367.898258897888			
TADA2A	151.561151654372	146.713861499546	142.027930009598	
	138.123754096875	147.364301916733	150.672985449063	148.516653846017
	194.112534914308	149.742140955184	158.020651857664	163.889522525848
	158.767439363085			
TADA2B	361.327436394941	309.318403417731	344.070947256963	
	316.364342983155	204.681956301306	207.138680369683	252.32907388173
	229.907632927358	303.986544460218	243.65518489122	317.353318759931
	278.219561902233			
TADA3	330.080428155378	340.487850009685	291.020789939476	428.09583118349
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	351.515059400947	286.703712311781	364.840751972169	327.324711245289
TAF1	172.951567541592	155.988447182637	161.655336107432	145.45768403614
	144.69686018715	156.84104238878	148.43357593249	139.792313018728
	157.919709478746	153.366677608026	176.27969404442	160.127254444487
TAF10	496.560127152436	509.512410867348	370.798852361374	662.958637409597
	1146.3535752748	559.668195903429	764.137504481329	681.677841333095
	864.161191021297	847.564628337955	1017.6969123529	576.997804865103
TAF11	143.431389389919	148.782907912893	159.154102271517	152.026310884327
	152.935963398921	173.513108409372	157.733042033549	140.227863970629
	137.344198938623	163.632148441668	147.537691509156	155.114892891737
TAF12	235.704824490397	230.367251714289	283.46492196692	222.848935978648
	231.981501596284	245.042781391047	303.483515328621	380.888728347647
	291.720204789005	339.069385816411	227.884445686928	247.899467998443
TAF13	218.058543664561	212.5119818331	184.709768457405	214.175691239597
	171.059849459102	196.922837906592	176.761123480566	176.317805247749
	184.204036882642	191.200215655114	156.994265858123	164.652795899742
TAF15	507.040326298457	814.471143753335	462.437471715008	1224.49891389348
	1197.58205444449	363.195371577097	418.772484676858	572.262848718437
	585.234286698678	271.615621030842	1600.10235468018	493.347308943133
TAF1A	146.097201498811	140.086978441723	140.290598244169	130.297203474319
	138.397152876585	151.954389699615	145.566861062922	144.81077501446
	145.132183293421	140.391753835434	145.326803807448	159.606633817645
TAF1B	208.14618424983	198.470718196139	163.661196423902	160.91894600916
	397.985856484851	351.448985413528	291.056913909578	194.903531690239
	243.191238594142	322.64731764456	218.369954323686	314.386320310898

TAF1C	460.941286124613	483.312894744803	472.961857076681	576.298671053238
	404.54681330209	328.730722366546	417.262521411065	458.282682131641
	464.196512015649	347.292438587205	410.138738410101	488.14606875418
TAF1D	197.298982267459	180.493406236326	188.641397688261	150.843975804117
	180.022646625687	160.493314658788	283.982575660968	191.074428905553
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TAF1L	203.616580991715	186.140970908638	265.572253407219	189.174957940401
	170.701964358516	248.43491649623	227.32463765717	220.816812192169
	214.904634494921	227.52352046188	215.037122365095	254.9636051363
TAF2	256.022057262325	247.015574724901	300.047728281275	220.710324965453
	228.086256222312	513.428413503031	340.668473351494	363.150472154973
	406.54518900348	413.084646927035	304.713434036642	367.518273773904
TAF3	168.991551886143	172.877947895827	165.134931755194	166.506602328929
	150.748298569951	185.886737029845	156.417000271727	161.577683729655
	164.717809928624	157.225479764928	148.791182443623	181.914505612128
TAF4	416.215253990273	382.701467158304	426.032234135861	416.307629596091
	608.351527783086	816.580880338838	745.153336165802	561.761160223609
	614.514126276981	353.571106279836	513.20896845398	571.136519973808
TAF4B	174.08222895937	179.55905250703	154.8975607055	176.77183598995
	170.350891928203	131.572485018063	134.517774302213	158.541906931082
	139.579764449867	158.420821486138	146.582858169664	122.789656787728
TAF5	189.726075394359	185.617936412633	214.396920524803	187.247062073247
	139.779754416105	156.068308349225	152.29434111068	169.695658738618
	173.050039480459	131.121343131082	157.40255559397	159.913028912492
TAF5L	138.269955723817	131.2834389999	123.150299476109	125.099672022917
	136.001505582342	119.655162437465	122.405469833024	131.655316312379
	116.850851308701	120.082391311921	149.467626202395	133.333067546558
TAF6	174.587558727209	171.130215858803	195.929328710358	211.483693299981
	244.766289564524	148.219406063533	172.446482096058	165.813771791917
	166.368623023308	135.146767090951	167.637638693195	171.298701141684
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	1059.80292026589	575.546802138889	460.651156484562	357.063270015318
	310.23294370018	267.970798709017	329.068463281182	395.049127927637
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	271.897511879509	377.89330639683	491.290438575428	470.746477818201
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	152.89366585726	118.727279917776	113.249267122926	127.806138997958
	136.815411937352	122.595766303833	145.507330257603	116.134550788966
TAF8	117.735411259153	120.460433297007	144.754401731628	119.498312996987
	185.727947276958	116.103369028871	128.306607216705	146.533374238616
	145.478233255862	137.195906276069	159.997580819443	131.80257432775
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TAGLN	16077.1585881362	15238.4097431619	17404.1167486753	20510.096303537
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TAL2	131.679566454851	122.031894952046	128.800907223807	122.742891063864
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	198.066837203458	208.983138060317	236.508498739509	233.82434521462
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	183.83720937589	142.049776668507	180.850779069931	182.997980582218
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TARP	138.701086464887	127.150222504237	147.754489751457	134.227796103219
	136.271412363498	133.9382467268	142.34956863109	157.979749139651
	138.359423363142	141.70844587896	143.094799968981	133.625358030199
TARS	837.872187194784	643.660739343159	767.054576874115	598.287431134037
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	136.2336179571			

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 TCF12 311.208703262497 310.075815009404 321.627969147543 259.625943627223
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TCF15	128.432188632218	122.423561732526	124.699127988314	125.347442446239
	266.892524131545	169.963805688413	124.28313315915	128.554574566655
	132.383542877819	114.790717658188	148.934593102452	119.346574301289
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	156.567519536997	136.420062669039	135.722321387765	149.538429805372
	161.437972329744	144.329979284786	145.056914913573	148.739888930189
TCF2	114.421383025971	116.647291878845	121.653754668804	118.900338956203
	186.359770878343	154.843607752473	144.585120811896	206.915239638443
	202.024504592763	121.591962855513	210.550995170071	169.984859264412
TCF20	228.524222740306	225.783771938969	227.050629701762	243.468673768141
	231.890885094917	243.159062832085	211.555248754731	239.33642662112
	214.499670852615	223.220997990627	242.348427307994	274.534901548678
TCF21	686.445635754196	617.318955611228	299.669394721682	361.969355316032
	151.954389699615	173.21291920566	155.483400816946	164.769320792025
	228.414049417352	154.011708696954	143.512348693556	158.679903271595
TCF23	181.400788152988	155.561821955048	155.820194280153	148.49560238679
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	154.892452237027	157.604224004016	158.183045411298	153.585849286113
TCF25	1623.92991386706	1738.96798001895	1741.0131951509	2065.51724858579
	1438.33289891548	1225.33666840349	1382.12750708801	596.54904286299
	1727.7144253077	1573.03248861784	1625.55754007235	1744.58410715956
TCF3	232.830038701628	289.164969943385	192.209344004015	333.533043832976
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TCF4	1199.35864276583	1252.28642463619	903.144845227364	967.797017108447
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	362.252813848151	352.945088028205	168.547575047205	191.25724234927
TCF7	124.300285428221	121.705065573911	123.921903967493	123.400143662218
	129.257947818865	118.792612926619	121.945541820091	122.436106757578
	127.215777044942	131.17119492692	130.624702758052	126.378952839132
TCF7L1	202.278323489515	222.8766610624	171.552010365305	
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	135.386650538345	128.651081092914	133.995928435022	135.43939472868
	119.172965618216			
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	188.118989395838			
TCFL5	349.910535555712	301.428024926428	365.541609015117	284.891415492568
	335.533053221675	200.810204162831	612.758976723556	262.79667156266
	166.12695134858	290.241064926886	176.839917795004	274.343238288436
TCHH	145.187490179166	149.786445079456	162.422173095045	172.562162872242
	165.286724415145	164.757907224537	154.7326161316	152.925281215593
	147.657151780506	399.071041584646	162.900556089071	169.072574423443
TCHHL1	119.308345676905	110.935688075738	119.172965618216	
	107.841100741858	121.834248129933	118.235640920527	117.598778415488
	117.356389952799	116.280157890082	117.716094828779	110.707755436868
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TCL1A	145.843639385175	146.59366188125	140.402944266863	150.52625734893
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TCL6	124.738217731488	133.667852983262	122.093290585838	123.010614051218
	127.416912237613	125.386545354096	126.53466470733	130.576944864484
	126.129564039673	126.77232818113	144.975882336334	127.718341524417
TCN1	110.093565974873	138.216926722025	114.520066232155	118.737244693366
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TCP1	463.187551361986	447.297590650141	555.959424692051	408.037874667173
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TCP10	142.605816057276	139.404820141366	135.494894933583	136.434045183143
	132.269567096683	137.378528742953	136.501159644992	140.157553508141
	137.337681987169	137.468570135972	136.384308041001	143.053727675518
TCP10L	186.420541099902	183.735201125198	182.439945229388	
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	153.519207482423	164.126980102525	177.874821397216	170.966588957686
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	116.919109599361	121.661141741782	120.410307377977	112.292129754508
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TCP11	150.43722766614	137.747088378131	158.675960205792	163.014903707857
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	156.611727364072	153.19516365535	144.826861308997	175.400802387403
TCP11L1	187.824032557194	172.403953571339	191.418673767345	
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	169.598493862848	160.970946091146	191.112009690591	165.022029012505
	147.946236579299			
TCP11L2	134.404472539902	125.136745288071	131.814528687104	
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TDRD5	110.536316697732	119.373287155621	117.15886922795	105.62620788923
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	170.706932460836	114.325967923393	157.298181833321	169.257035030405
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	136.685430908977	157.524049610272	159.446705611995	226.203994206714
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TDRD7	378.088675670786	330.143103381406	371.552970811499	365.441289363381
	229.157389498775	213.240181616274	244.954917633904	248.613373429151
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TDRD9	144.498245098592	151.992112109698	129.765440519589	149.634975068742
	148.620766059526	192.878416717298	134.936025073531	133.080437161283
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TDRG1	149.182972268104	151.694193636313	153.358189612307	139.131857948357
	154.379788206936	131.430921437192	145.169804325334	127.983873767722
	134.635645106042	130.113673389232	150.672985449063	141.811563725942
TDRKH	151.492236411757	144.36033726557	130.207485841284	149.980924447339
	176.070695522397	149.582406567077	157.466686487471	150.602976963975
	170.233084517898	143.419034484087	147.125005489393	157.821491577808
TEAD1	118.488997046932	118.331237160995	120.371374172279	118.589392612801
	125.802001118545	132.367155914392	124.066239570648	119.349376960211
	122.018200592563	121.787875792887	128.637470206958	123.418266047461
TEAD2	1085.38819961412	1342.29111510713	1031.38207659547	1748.77270039774
	3784.59114921916	1429.25367024696	192.340135076104	252.056131165397
	890.121325723286	457.650982600462	169.184111483933	214.803167803712
TEAD3	517.42417250172	543.710330214344	563.011988279542	695.086203058575
	446.948699651916	286.194197552489	468.569725051459	233.809899915394
	290.754210152709	292.693830444839	720.364080505785	359.518199449791
TEAD4	146.96155692518	161.603317039244	138.227082687797	141.103517863832
	157.654040469774	151.747595672228	137.864637728155	145.650356702429
	152.080057231881	201.837695818264	146.934990457666	158.579717282881
TEC	163.829218786716	130.009322405768	170.95650329595	147.823552813852
	149.6036366066	167.337624316172	144.499680685194	149.664506761117
	154.398416018484	155.785933672918	158.869463014801	149.190528937822
TECPR1	198.311821616128	263.321559283966	217.910445051307	
	298.573180660083	270.201322204641	157.350979071365	194.212177449077
	222.526610842047	248.16594076495	186.708059183893	223.496400038284
	224.298067319406			
TECPR2	127.500754400224	140.571143847885	131.432729794636	
	134.93814894432	119.643417329571	117.445284668654	110.651971902576
	120.311723366684	125.18424162353	104.826135297161	126.755389668637
	118.955314417914			
TECR	881.15414246017	1118.86225415732	969.811933814244	869.245621105614
	5291.83393775761	1975.83062789692	1728.86115695979	2263.73444150082
	2032.50052162637	3115.11499025766	1603.87451959083	1343.2623011534
TECTA	119.198789189881	115.524441144063	116.186846885411	117.374025543149
	112.282839763467	116.632612170106	119.9652990395	113.980716384814
	124.758906471654	117.412956162665	127.121068682846	115.097376525707
TECTB	119.567911704298	123.563243360247	134.741781820234	124.474221706022
	118.006338536085	113.791585365477	129.497266827284	117.805556408194
	115.157321350379	121.080413308265	132.589411973628	113.031636180748
TEDDM1	155.651798065702	158.937341335707	174.177944561595	
	150.874014332213	165.926301648161	156.976539870288	150.328995030071
	155.018009545475	139.517413585211	157.971293294367	149.495077381649
	142.338352884053			

TEF	258.915802108562	524.973621024573	272.314332734711	961.355625338687
	210.266075382636	139.837616209536	176.883702717029	171.216275057884
	142.514794686932	169.574755162815	237.854774190873	160.496585125233
TEK	256.820546409632	291.476113017794	210.030846572444	288.913660405191
	178.320732186309	200.934618257908	173.635827398273	197.191648960563
	219.619022209985	178.863722055499	161.470611189347	155.522274777451
TEKT1	154.198394507279	157.944355564411	135.663734178125	126.237900397603
	141.541355091514	136.712083407769	143.675696734051	141.850952191423
	137.094814176566	163.976361576383	166.754995454382	146.677241054745
TEKT2	189.539458686123	183.676020826291	174.767697866801	174.313718712035
	159.74220366735	192.465510013851	167.658560306884	174.02138265758
	184.377923161698	161.651643789597	171.521579011287	168.166938045454
TEKT3	160.98571841915	154.043604150962	126.515480612924	130.890314257211
	103.888971448792	117.274977920103	116.134550788966	114.812254477058
	107.828378413233	111.10737497653	134.442947822188	96.8261937365062
TEKT4	150.213657393257	137.22727238555	158.963726206466	163.385727569154
	136.381593416533	122.447154928139	141.019494314354	126.992697289075
	136.724298878331	140.860339862967	127.773292289242	143.703367582367
TEKT5	144.450810504499	155.201655653645	140.855078775719	142.80027343095
	169.232677769521	137.21916902421	134.197892075036	148.846121873401
	147.619451225526	132.969187044132	128.753623886188	164.491207767654
TELO2	172.030687707578	177.371157649894	162.664254855131	134.590666885938
	318.348505551265	131.81975648701	202.129153259445	192.627266049516
	217.165036362034	208.666760987764	318.930960243303	265.402310598892
TENC1	179.211502448703	183.371103136697	153.59485367224	193.892810132985
	145.928643520352	140.501968970549	134.700543462375	135.294664456623
	130.516632662261	135.409613764459	147.281035392817	130.698850298016
TEP1	169.028519464989	137.404525565336	174.338440780636	165.673535349675
	134.883708339914	148.190696520521	143.950279111815	140.860339862967
	160.57963709333	181.439775614781	131.672014089487	171.140106467064
TEPP	137.820326536962	140.018786803502	140.154925193842	148.665627690915
	158.528301072565	134.224781719944	202.545147073902	137.190593489949
	197.357728220717	134.257928609741	150.991991926229	134.555873832434
TERC	129.732352495012	141.176376265078	124.749727939593	133.978783899572
	175.363223521128	178.186273279101	159.005459875338	146.184624424737
	149.164469334038	134.383024487323	119.26921157552	130.808911605271
TERF1	340.668473351494	337.342034950908	324.177924877233	296.553550946307
	241.527811817146	176.839917795004	210.761398461329	186.515784641119
	205.728673153914	195.66091457697	219.288597751645	191.814634229865
TERF2	478.909308632726	411.451612988791	548.686094748117	452.24100098898
	302.021033686056	330.703588385626	321.25076864104	301.871924474014
	329.263397240111	228.025383952578	374.718289636553	407.615019710707
TERF2IP	906.359365544713	798.758496171493	858.524630425687	
	748.161769171818	456.201998988891	449.598181155897	472.514017604645
	452.167674725454	544.462032960964	525.287367366192	439.727046291381
	622.561634660589			
TERT	118.497920969001	113.268379270385	122.557981210434	120.935863853101
	124.521130036013	119.763020707899	120.696557306298	123.896578371318
	119.192893408873	120.846789922177	128.124456615525	125.422348389595
TES	250.647644543963	238.548578086943	176.340265963032	279.541294184609
	145.793794049657	148.922537778634	172.7330526128	173.395370400371
	175.946843919065	162.933658389727	186.06425658259	202.397972518715

TESC	356.413190087706	577.98969050409	421.384700184923	242.096692715029
	1265.88446775977	1593.49895307361	672.348723983535	645.438835606933
	2165.41403521012	186.886677174192	3598.30438198858	1501.18820017008
TESK1	530.122419830951	582.642500194997	567.317223907142	833.198511430615
	499.683188662742	396.526590512521	309.538690289233	282.836518011311
	339.172031360524	339.753059801136	275.252966071473	281.168898910065
TESK2	160.91894600916	189.784608429624	159.241573314833	164.991522994763
	367.130155304037	212.473610495213	254.991678321253	326.1109406486
	183.583432296209	223.253794809571	196.399050990244	127.471479301983
TESSP1	136.251820364823	136.614620534169	126.667650990284	
	163.146581498065	142.071492722749	147.196687432745	131.692626563078
	136.965376129304	137.697452180659	146.885404321622	136.818557078622
	129.672284417918			
TESSP5	134.460035654795	149.779323547896	151.436802637988	
	146.635140441079	174.979501466228	164.319378349317	155.752117896424
	145.97330701968	162.786351190659	164.942652212218	169.349922114861
	160.459100056689			
TET1	141.822974252935	175.638328370133	144.363095380388	217.353396632732
	117.907840952685	137.81819274774	155.612543356905	123.240482782331
	126.921925660996	148.697019570015	141.174971007547	129.13353785479
TET2	147.51773051441	141.539503634005	131.136073942692	123.09149124559
	121.203149121743	131.181537219479	135.957972463728	122.557981210434
	127.55397077248	129.668506092785	140.669947387892	128.653335099674
TET3	171.589889474122	164.337486856997	172.26834556696	177.235586767256
	181.148062201932	162.100547394235	147.310807346272	154.205877662428
	155.471795004237	164.448110885609	153.244758030666	162.634670715627
TEX10	323.896313343796	250.766180970907	264.456926651554	262.389583658305
	370.066087375401	312.019603761673	263.321559283966	245.399847987183
	281.44159425243	249.449151040445	286.856346704286	206.027235767232
TEX101	113.432757764419	104.03442843396	113.769815606191	
	115.755585907264	124.190161132628	118.60878652724	110.234403581151
	112.208950290962	110.829107724132	168.847039069786	116.382348831504
	110.1278204598			
TEX11	149.759516805355	152.50843414723	145.491525555916	154.086510608016
	138.993251266382	151.301484852387	137.996291911198	150.756776447358
	157.162523271165	148.859129298141	142.049776668507	152.954944775793
TEX12	153.888212689508	143.172744119235	149.764447995426	156.205127163263
	155.699649538664	135.645439440707	149.829363505519	143.25481667885
	140.132816040735	134.582098893327	124.16920280673	134.495938988321
TEX13A	115.572088632106	113.857477830423	106.551076380988	
	113.756115251188	118.95971064289	120.538535752185	128.583503171594
	109.176852761745	128.604270382206	125.418782388128	126.061141885666
	118.533346268154			
TEX13B	138.877999126533	118.366859032979	139.016274575854	
	133.329392986316	134.011746666371	121.107979534361	130.878000486351
	130.548611758921	125.885715928839	136.029898048127	147.866909109733
	135.231458421096			
TEX14	129.854478528455	122.702175900246	124.235958498969	132.878638378328
	129.591396165575	123.019430618632	120.046892432373	128.944295118239
	130.41429837092	129.140978620864	122.603226380439	126.763282018991
TEX15	147.803464591663	132.303506517431	147.452986308926	156.883255634126
	165.908756485356	123.015371659847	159.185616602396	141.28700484445
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TEX2 822.129234065933 681.677841333095 764.137504481329 848.620986404914
 322.837446618323 440.404188514231 384.780426529733 354.336462793628
 332.464176231219 742.751664201272 379.670492165938 468.496972957503
 TEX261 233.161848094769 226.144012966486 251.915179734134
 244.668813440638 413.983821839274 344.575967665039 246.80306998812
 249.524956682907 248.085349787686 231.572677616684 290.135914275115
 252.593574250965
 TEX264 243.861834405092 294.922183826144 338.406266073063
 308.803322140241 1464.04124596264 337.935183275743 590.515758538373
 387.477198908304 425.969575503375 331.251075774227 378.797952580504
 411.968307579588
 TEX28 119.352995485911 117.760045671142 128.205022859019 121.377666938052
 112.987890650593 116.288113598488 115.101971719657 125.77343813277
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 TEX9 130.317604643904 142.203367260558 127.9575507576 132.486311240725
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 396.40172043456 360.852730026133 501.738490253982 408.201232787978
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 TFAMP1 123.93800397666 131.380387461901 132.86879723151
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 149.949425756405 145.239119337981 156.543267949167 147.78095608696
 160.293522619371 147.091280396135 159.762733951454 128.309602266886
 156.243337414127
 TFAP4 164.438724387992 147.261153294747 147.502116289881 178.245841646175
 229.373686092654 163.982415393606 164.841156516242 158.49220347186
 157.225479764928 161.202844994203 168.720694813918 147.598602877625
 TFB1M 333.049612399093 326.1109406486 502.731019454502 337.077153882632
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 352.121800955822 333.049612399093 517.23393716516 596.076764072945

TFB2M	272.456310079164	290.802509012089	373.033658917608	247.72190598581
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	576.298671053238	383.407365952689	708.779490017407	880.719593734606
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	401.960630197091	305.451247405518	441.112782197591	402.026356201632
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TFCP2L1	166.671563123047	135.90207451581	144.011792962785	
	132.709845352383	251.20133703465	260.746952459282	170.497804969996
	205.908052642222	155.902461107328	257.44230597145	218.96845208513
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TFDP1	450.220658078322	401.542072222692	434.61711290583	345.686640885419
	712.433345978749	1188.08712008638	871.913035811066	790.790236361922
	1104.61581891596	1272.14273680177	704.448123154868	1783.8031212092
TFDP2	178.984409575632	183.719279448844	224.707455448421	189.450316943845
	207.123420880185	189.482046688226	208.291714758548	245.915473236403
	215.453915231774	180.619956937489	188.335102005839	203.675655444583
TFDP3	116.919109599361	108.715328458556	117.071585083051	108.2359175332
	116.989409891761	113.133798430215	120.626155234319	115.107214937219
	114.062099086818	109.140708667012	112.264005988662	109.669517182289
TFE3	254.359737178714	248.562843471699	245.399847987183	290.802509012089
	271.087125858775	204.877041314502	193.148369507405	183.100286716683
	173.929353266244	173.488272345038	222.332748220525	185.128661141884
TFEB	181.991820141929	154.150568177135	173.121618125421	205.149094703318
	136.705326991088	141.528115502473	157.216793735479	138.091795130567
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	130.657342262492	134.55255098289	141.143572141958	138.471894596606
TFF1	126.241307445165	134.361064431414	130.572923512809	126.085039271526
	122.142323014287	121.860428893248	128.40650280096	129.055874691136
	128.162546179362	120.979417552159	143.62315472858	812.298381693378
TFF2	167.180406126438	194.212177449077	162.634670715627	162.624786423084
	203.563098303937	154.33224999163	143.245660951425	153.202157381228
	147.696506705909	157.21132653949	132.047328970556	403.47026424469
TFF3	511.670320118232	396.861835715943	449.304281526081	487.358720934063
	138.279775054156	198.597176657619	161.965270932582	188.671807443641
	162.536009333787	148.439740062804	144.227440632196	401.584032365337
TFG	691.397238677552	552.167699318911	593.821622986351	658.746224115551
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TFIP11	329.333236839082	314.095043876244	297.022984365795	
	324.79327985156	314.810001770583	343.307036883726	352.562711030848
	325.320888625297	336.845908630493	414.200068430184	333.200230327106
	306.43742010208			
TFPI	678.684323057327	431.861762635568	451.210172051464	337.39574303968
	162.28074297013	238.770586150777	263.74335003375	224.424524191566
	271.791126011275	337.652945958921	216.506914782226	215.84044779962
TFPI2	156.003233745771	131.419663282022	143.881744063934	135.166677520468
	148.486946087388	136.400959554698	131.887778588005	134.653131708903
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TFPT	253.754869975548	291.105673222859	274.281532397691	381.323457262383
	1567.89763050645	536.46884541183	613.063954859056	360.551560710852
	308.441120735095	255.413231082357	362.252813848151	504.838017072725

TFR2	146.9554120076	153.448882783807	143.629760301493	148.222477811166
	187.082082429597	140.21908493941	155.496190048502	160.131256419524
	152.004130711617	149.226700202481	150.029313080668	137.612446150193
TFRC	802.643357549193	868.066644155313	796.699879495384	346.78158577526
	3504.77617298452	2470.86113150126	14037.2575989329	4635.42002659719
	2712.07480130502	5138.28186306948	3046.47354587949	2473.22803972431
TG	118.44089966163	114.658668711121	115.058061620379	112.046615825307
	109.425878885118	112.851805868467	122.079685222733	109.728809191027
	117.910259090745	118.764650384561	131.696834332724	124.588594750916
TGDS	227.050629701762	232.621526025603	265.174306663185	213.447886742681
	238.400565506288	314.646369385896	240.283918204202	212.822328466993
	268.724338967108	283.874600697211	351.515059400947	340.903961204211
TGFA	138.838795320713	165.022029012505	143.925616978401	141.168198348093
	361.768552564027	222.268494113686	247.053215951505	383.802494922918
	218.559622620349	564.588706307423	269.770777921703	288.221041179309
TGFB1	127.112296857923	136.002391758473	125.139029579691	118.226036680442
	117.48427100606	121.462385497795	117.781804727205	123.703840971923
	127.781732819297	119.819082491115	113.119021336236	118.206034087145
TGFB1I1	1862.88548451154	2157.50118108142	2176.59445919725	
	2874.43919426772	209.258707976348	170.179304745674	160.30784625946
	163.113457178357	198.760049629983	335.623336587396	157.919709478746
	203.913123559942			
TGFB2	150.809693773343	145.45768403614	129.705735906962	127.712004247155
	142.902838068479	132.958521136	139.494962965774	132.727133259694
	130.016401638936	130.900049359243	129.171589574238	123.535803027153
TGFB3	1675.35431076885	1175.27165286568	724.103864917969	1614.00098175383
	144.736213465651	137.639342727211	119.655162437465	146.508628678304
	224.588225855066	340.193863653875	165.647471565959	151.573920235798
TGFBI	2249.8123426309	1918.14260920544	1014.23822508445	1426.56252600395
	591.763423878737	854.815394943219	2523.91287654539	1353.61552261489
	1586.00600118477	12654.3779830648	570.26564132238	611.772512110915
TGFBR1	142.485427762372	126.825785762925	144.439320591901	
	123.827771590213	133.324531689254	122.773736159743	114.384296185446
	112.747067417774	121.768195574022	128.597272557033	137.056500339577
	121.841080387875			
TGFBR2	1502.3444541735	1254.19980463817	1049.52258147141	
	1061.79595707572	492.05680879106	651.998433127992	498.641091757363
	496.328898534802	688.684644604218	552.662610888399	992.320202251161
	454.64556253724			
TGFBR3	4222.55224241399	4055.40322213638	3784.59114921916	
	3038.02573182546	945.830852603704	1774.22769195939	1597.53010317504
	1285.54492194393	1011.9675459648	214.52087460757	1382.12750708801
	1082.75419087929			
TGFBRAP1	272.639413442579	342.769825986756	304.357050745605	
	325.859917318516	276.089623957012	412.863887464545	338.665115108128
	478.909308632726	310.640107228956	316.237519859859	275.203046536524
	387.908774438461			
TGIF1	179.230909178397	222.20526515049	201.139510041141	171.006582229921
	491.35949123223	359.703969802888	305.93974940209	438.870464403215
	342.769825986756	308.281798808746	290.954496559897	306.387898121409
TGIF2	258.759507964221	275.609716327452	242.871915060884	252.197271817794
	294.653534388707	436.222568287601	549.162299481184	245.607130404306
	351.759100605991	152.262147284452	255.839878446312	353.187829498591

TGIF2LX	129.628859533303	133.026094667212	123.974409226349	
	140.688570032068	130.288547755599	122.607404698857	130.001889950186
	137.556552701816	131.342562516383	131.378893655618	121.952255635669
	134.06996703302			
TGIF2LY	145.10302792449	166.936975782665	148.107004870598	
	149.400244837133	155.92082882492	163.846242743377	150.156865995098
	162.147989253357	139.570313872946	165.789846154721	161.354014292373
	134.503552797411			
TGM1	158.002906093899	151.10837100314	148.11536596061	146.014110816045
	143.641777655752	151.442463705271	167.087850057037	149.091925032548
	162.955366577418	4836.4008757421	171.338371572269	134.722574388775
TGM2	889.6617510875	1050.40488466179	1121.87292339787	1652.77814259264
	263.352118305612	175.101284960252	180.680595239651	279.969975697164
	412.277592266475	166.388683552371	189.482046688226	208.016730103629
TGM3	138.704839659727	160.525939340745	169.612203020686	159.563866056798
	125.789509802098	173.586160103539	168.538117820213	159.26101905957
	167.114291248266	176.390014020936	162.347140552869	167.139257044999
TGM4	149.264997927508	136.318816786684	140.767270136561	150.208809981642
	145.03804642447	131.085965122946	142.390243984362	129.703791330416
	123.571641517019	136.3615279557	142.173279109959	147.150063462728
TGM5	131.941069239017	129.985797334276	128.543460982378	133.654232991228
	131.198284945008	129.737882221259	133.913578037255	135.535915449183
	129.451882171632	159.990561741675	137.201149245092	126.259029676691
TGM6	119.822587087968	124.116400777472	129.514490386931	124.876226351169
	114.987285062108	110.838647534175	116.445184223804	117.958297137758
	125.924219382375	122.834017529045	139.767216030715	126.662329971897
TGM7	156.901209828741	126.782805974059	151.206697943841	135.807494668545
	134.051756243089	151.72544764489	156.581569063195	130.01207836961
	149.513744292932	143.271346378958	147.716353308549	146.871145679651
TGOLN2	1039.92160906839	977.227184625781	1269.67110104843	
	863.086199215353	873.879064183441	970.634736994313	974.007008568051
	1724.22121078776	1501.18820017008	734.97763567765	991.081498002429
	1303.33810980467			
TGS1	136.2727333616	149.427217345037	153.711354087243	131.674409480919
	146.983646662811	144.690880401712	127.097605337434	144.143692745479
	139.013404849037	146.764908249803	148.975112606364	133.806992413298
TH	145.731800133702	156.233573126063	142.859971805867	126.66432941518
	2599.421026133	294.746622369436	241.706645643141	428.09583118349
	1417.76295714364	128.141725976839	533.784151495549	284.595024875896
TH1L	578.650614747598	653.500279510032	615.058712877418	588.678767007017
	4722.64356477773	2427.21100330388	1584.81089248914	1045.49947183547
	1279.9555644913	1016.18143428327	1027.48490028905	1139.76755449089
THADA	220.876114717642	236.052008824688	223.373877165342	257.032174266905
	249.354198174438	267.939624375137	231.63127072986	342.096409626768
	246.152798696993	186.961638857905	198.745359220907	225.209315195163
THAP1	176.849238577762	197.526492324088	218.314136992677	180.250420976613
	182.958991847218	272.885527139137	213.484986945295	205.149094703318
	193.04138438685	201.004491067972	210.5689532432	202.99342484328
THAP10	205.185206972064	203.652936507291	266.316485802808	
	173.66499836293	261.500728878974	144.375109087466	289.576706584644
	174.92026613834	267.097999873387	157.192320902906	252.365946808078
	237.420951138877			
THAP11	1097.60805874165	1093.85316636801	1364.1224589383	
	1228.89116158868	1085.92360670051	732.040299742444	986.65554605455

	798.758496171493	1055.22233969473	848.154015576436	1080.42884514937
	955.143610867351			
THAP2	142.734103971267	149.516743790585	158.760577365464	171.373932115412
	141.86836086844	136.758262322199	164.092847913322	163.942131559267
	162.683665945044	152.004130711617	130.998637545686	147.132625797946
THAP3	138.824082857747	147.970243979273	146.681183890181	130.882463936853
	158.226547375305	162.895923745031	166.176511176489	153.108902978819
	157.615017085961	150.421116058494	144.302925948596	130.642810886161
THAP4	131.556892859203	115.048402956574	130.479845410716	122.469113037809
	122.392159083328	134.931263946202	125.193729067011	134.20988291379
	123.817878562971	142.821131835602	111.09179957013	152.483240622367
THAP5	158.863516051439	153.929167381674	163.413365060063	151.151297821117
	156.69025356689	155.46017572591	150.961462514387	156.942156078314
	156.316333575406	136.144068118165	135.261561433405	153.792925101459
THAP6	202.162432624505	194.789918629905	243.441938832251	221.961758403614
	191.830711714844	192.286192329464	242.871915060884	187.145134088286
	215.115324454215	217.148957110623	191.679217737051	206.502189514795
THAP7	180.3779211444	185.765000029242	182.624130582754	186.6902304653
	213.966288689715	164.726382689707	180.113222861966	178.200678423426
	182.827395663312	146.210814568357	157.560117350562	170.720018572735
THAP8	138.930413256469	179.54034642468	158.726115143818	201.289402228512
	156.801189586018	131.391434131813	146.858292465699	142.438586625317
	142.843882404269	145.335830265052	153.589626253969	137.438984175012
THAP9	113.773684331489	116.988440658494	117.602986362773	125.572299527276
	108.9291713877	112.428707152237	114.539671934155	114.860437706855
	113.687931899298	113.422559344178	124.480385254916	107.260023460914
THBD	148.361088792223	171.145909843389	132.423043364573	133.367085445965
	202.421990203844	299.513950278952	175.960788330149	178.997098204457
	183.04531185589	720.364080505785	173.240598306749	231.338258067616
THBS1	1071.00507864299	780.461254794127	710.76653239801	236.427507270325
	179.648479201164	1184.3199328099	390.809169896009	544.580311371212
	282.282663608264	688.247581763352	879.809795251142	472.793332506369
THBS2	2072.01578063404	1982.3154578939	1378.40627876546	910.087388930485
	250.885949055834	206.027235767232	173.334154083555	256.99019407912
	369.156887999872	1228.89116158868	173.863373934746	141.315230997077
THBS3	761.32108609503	615.058712877418	459.388390392518	730.042712083388
	333.270203737291	197.308952757609	352.897241809959	315.3930052781
	240.376851873817	267.939624375137	379.788696204016	307.570405241182
THBS4	160.799950553311	237.216435972201	157.08300736206	479.469659712246
	133.554822920765	133.18744841514	150.78145177853	149.029275579026
	161.585555680663	139.301435614165	134.58799530734	138.215708514725
THEG	158.335952927257	137.03111066852	137.969750384554	148.707332454527
	151.679534447228	139.324006489527	150.807308519367	139.361120875198
	142.882391486465	144.848839185565	153.219954133957	145.525623473128
THEM2	334.316711893654	357.584458526365	438.611973005212	377.024120035829
	391.252450588331	274.179232297038	476.168679880357	540.946852709312
	433.751675703425	336.490076158135	295.973370766318	543.810043433181
THEM4	116.225440873023	115.231121959397	122.54127694717	113.989682635964
	166.709393547104	127.152744243038	131.442186260672	126.295856316628
	117.790593990682	121.036054511761	160.941804737367	137.95243466771
THEM5	134.55255098289	134.949572471421	136.289197889565	131.345038923753
	136.767307268217	143.741676966126	143.837402372008	137.225659453984
	135.673080643346	135.607537832704	151.081339000609	140.248610391566

THEX1	123.681353449198	125.75980494927	121.267153348313	121.599883734552
	151.064422836695	132.261161069329	140.286870147975	125.130703953031
	126.121516564343	126.048382998393	165.558963147657	129.297217956843
THG1L	163.113457178357	155.741507341843	154.611011734772	143.152993168137
	158.531514776098	134.772545694636	202.97197145851	154.935741493562
	163.858222964048	199.235895708128	217.560691345072	151.387150218354
THNSL1	173.850390626782	164.413893089607	181.202396068658	
	164.726382689707	280.007569817323	183.894417745549	192.418895349837
	186.447049658314	191.365014963729	159.138344477256	174.471304281502
	182.588697551677			
THNSL2	188.322853571195	191.897449038297	160.361025839456	
	183.804849355341	144.167857433516	144.986655090517	148.911306526869
	145.498372398845	170.376620730856	148.818562911616	191.628693083169
	152.617507769717			
THOC1	419.532420763449	421.690849282483	421.140525880287	423.152420192284
	651.235249028924	424.134483971176	384.464383569801	527.597948979568
	362.502631441716	385.888395433066	485.136339836897	413.913442080187
THOC2	852.649997188692	1015.63768413332	573.509780150018	964.473774310687
	484.764806127211	869.542306259337	837.023434916281	702.265884752474
	737.843412273272	430.728137105601	944.47112348734	554.800688991977
THOC3	157.547814187442	169.31618330657	184.294172429054	145.48456035752
	219.940167815376	267.970798709017	662.213423011533	370.140588087649
	234.693846527867	595.409419899436	217.353396632732	360.991542429346
THOC4	206.521761031181	194.413759761549	210.942865876533	175.757588503244
	378.585058475083	504.709613434391	415.497783305278	577.56891124468
	432.515970951769	411.285747588622	211.609763150578	719.628501451187
THOC5	450.327710374141	484.568420044471	584.813665097407	677.802147190757
	355.213322760505	434.176007498693	279.668007824988	305.499194075747
	359.776068595698	445.763740779039	283.163770658619	259.025042304848
THOC6	238.124340832815	193.336246844237	189.235998474945	235.350819745387
	488.746614111382	230.893665210918	287.374706071354	206.937770272939
	202.97197145851	328.431289733169	236.292053621233	288.505502880424
THOC7	1641.70484603137	1445.72064343302	2311.05587511258	1322.14570224119
	2615.07927836881	1649.46398639795	2601.89405525276	1800.25771851544
	2296.30423509176	2666.06582231934	1637.66306286151	2074.29945034697
THOP1	314.486603134656	370.798852361374	260.999345837027	476.782624160552
	830.455793617181	502.063888359427	331.523536427527	364.597798667541
	331.164053277361	316.165926273381	270.33685210971	307.906312092805
THPO	147.805819921429	133.218742606195	136.520811697544	133.731500722599
	150.761696482387	131.897352210959	147.54950981909	142.978818998012
	145.549126188292	168.205277839471	151.70035428516	138.62994237184
THRA	287.889774984754	277.285526811736	251.347519777204	336.5543056115
	147.49720952988	169.052101570616	139.440415574681	160.923897048848
	162.863781294205	219.687151891777	158.89305345139	144.667638908504
THRAP3	242.570588364106	238.770586150777	329.88790758321	
	223.81987303579	230.161369375718	247.550312458738	309.658122422202
	268.406778092906	293.692083555844	312.224309341171	186.57665470145
	323.04019262387			
THRAP5	163.306853098724	193.48293264444	170.158189150422	
	165.654773882752	223.531323159808	168.323141675824	174.568253693395
	166.085469368498	164.841156516242	208.713555471888	172.077522197357
	158.299765118221			

THRB	131.426355444136	132.881693683384	121.094060100325	126.814332513301
	138.30326146769	128.266906202941	149.18603646016	123.959050197189
	123.728481007459	122.408016372747	137.022366035333	134.9404536551
THRSP	155.794309652357	132.913891550054	150.542478166361	155.452842883109
	145.514859606031	144.499680685194	138.201164395948	147.400082178491
	152.340010735322	153.667355714857	149.41564356447	131.692626563078
THSD1	137.731390340708	140.706490845379	141.842919268688	134.932416370825
	134.160100276452	141.997165490755	134.096283448464	126.178476831007
	138.223001481672	154.162796706044	147.409936250284	146.14494790114
THSD1P	140.981666934622	133.441783287131	147.697973457776	
	136.185953087697	129.368045611894	136.639637503571	129.01094835739
	128.386309075038	137.844113743956	136.641140715439	143.157807632147
	140.398923642686			
THSD3	110.266032635568	115.750690887988	112.371497988132	113.748724650063
	116.871350997346	115.572088632106	114.774530966446	124.892438890234
	121.572462089942	126.013957128603	130.700175060255	114.65036208773
THSD4	175.121069571371	172.857643600385	137.120973494952	141.398513269219
	151.094682146074	124.28313315915	132.493888285566	136.026302491961
	133.368199807997	185.405774238391	136.641140715439	136.319655432311
THSD7A	145.177195093247	134.253399256648	141.267715391739	
	143.594003495859	115.030084788083	136.591299462104	146.238333981318
	141.513636348978	138.006973261364	132.885515958081	153.095594614683
	137.361967082029			
THSD7B	134.312156667838	135.254996386778	134.008118774075	
	136.164270397912	125.488511939819	132.466796864599	134.064206964444
	129.532122459128	130.302829773323	135.237042337721	145.114382599368
	124.740700441589			
THTPA	128.08497128067	123.916497557628	120.883785696583	135.715745768179
	159.455596750304	119.375727296235	122.659174808512	117.480506535399
	122.84779238795	112.817015523662	141.97478198531	118.298444816712
THUMPD1	495.56459361431	525.920873434688	713.087392708048	
	447.372026268156	318.73799597811	457.650982600462	550.901056837273
	585.075322115635	360.991542429346	381.867665449509	444.663812851378
	487.799854351205			
THUMPD2	312.601510033941	286.945784387294	335.239364345057	
	297.609793563225	260.746952459282	409.691865300362	425.13721408756
	456.298408568636	212.223906015932	412.202049714695	404.726926716133
	450.851711160136			
THUMPD3	143.31590446076	156.179501567984	155.502363062633	
	131.468537312778	184.135651836627	145.154323430995	190.947996918605
	200.424975825325	181.566951620202	159.891562221587	204.1974438819
	161.354014292373			
THY1	903.503768217033	845.646455991008	268.660078500783	1339.83170225337
	378.695635790714	269.300548648755	140.067809125008	312.808044035117
	510.972389503051	873.879064183441	208.838523729744	237.754067231793
THYN1	371.00603789759	329.48021621087	437.931339781992	328.078808625906
	352.741885295157	276.414209660023	397.660202059209	382.186095123659
	373.656487297238	247.942904862478	381.740838644647	464.436380568216
TIA1	345.209128382239	274.534901548678	386.379891865411	261.366143735074
	564.41151411028	892.038018567941	550.24496459253	616.701037274509
	476.782624160552	374.215345412947	509.512410867348	612.374364731095
TIAF1	542.379137999196	655.665164535648	457.548150688248	796.439819579938
	937.375361806971	293.12968694683	306.111172289632	430.833137328233
	392.13175568099	732.352357321273	439.33566689752	345.38424761963

TIAL1	286.469773081481	245.850813387241	269.770777921703	227.441436540742
	256.687384001447	245.766885283797	358.415933397099	254.359737178714
	283.191303666907	285.659010982301	346.996310517446	397.449905380349
TIAM1	132.332128706656	154.889079187405	163.284853420896	138.57506931811
	197.962159288376	318.487401106209	208.666760987764	263.52595855321
	217.050602253281	256.687384001447	225.189991540262	258.4424008891
TIAM2	268.224669588188	252.138168292964	250.928804390353	335.142319387164
	142.02169810999	137.559204418819	151.665244763743	151.639515017015
	147.416991272497	141.565098155081	136.949403128211	141.076652697698
TICAM1	251.414717011661	245.978723809154	277.817786943873	
	281.238656291587	431.861762635568	271.064405562085	329.333236839082
	325.43977732888	274.120234926832	378.308562999445	360.185005480216
	388.638095539186			
TICAM2	295.047418816148	312.019603761673	252.015257713669	
	337.973433871323	182.57496767012	147.790720062226	204.031081842809
	186.033093285894	190.152824885328	284.043349407812	194.22713184875
	165.143417235314			
TIE1	162.500485773812	158.660859266099	129.628859533303	138.592943322694
	129.369968549738	131.503936441405	118.787630332168	140.460927375243
	147.270369342438	121.497645719165	147.123477579978	122.093290585838
TIFA	142.129680127408	162.914301705151	168.942165573542	145.416733388652
	136.708746582636	177.825648107126	169.631386764054	140.671406418004
	183.023316857537	166.272237117441	182.109092947203	162.919656039331
TIFAB	140.557871626905	143.537785553911	146.621996129313	131.794065532001
	145.426171336045	137.854873498783	138.510722755317	134.640783050966
	138.041411135053	139.703304553486	140.313216623427	137.262309660909
TIGA1	1477.10828981572	1645.05161227372	2639.60135568	1180.7055699511
	684.715981522999	491.635435224507	2479.34567973462	834.788058321257
	685.354305381323	1797.65684760558	2200.94974896771	1516.97921112926
TIGD1	162.039394839415	139.182623417751	153.821728151219	165.586397236489
	147.108661317945	139.801108744526	168.687845035401	148.525224975266
	142.534195262988	149.490064894136	136.448045428081	149.348231806916
TIGD2	144.94824685435	168.166938045454	176.934111889209	173.939159471022
	223.094496588657	182.67941458824	335.698400607132	255.839878446312
	223.107391048316	199.077893147154	242.253995801882	214.991170762327
TIGD3	146.428534132236	127.879723100698	147.821639002833	125.810756286648
	139.140647941752	131.696834332724	147.494937826597	140.301945597122
	144.013615296685	139.238936770274	142.601556980614	158.770502070553
TIGD4	106.102093734748	104.739307327595	105.467761348787	108.646136431909
	103.734303632543	106.182551369456	114.691842968597	108.730058525654
	106.746545626069	120.819163462986	131.050255325564	119.395894479869
TIGD5	270.787490294555	321.367338145787	294.069353373633	355.14024238296
	883.140984728615	348.921877633633	592.957842630046	411.285747588622
	444.663812851378	352.562711030848	582.527835746927	423.966625351913
TIGD6	159.41078351918	163.066051106092	168.753660955229	182.478971050701
	149.556644928013	186.778334749551	171.145909843389	153.072429774613
	178.665552649698	179.211502448703	163.936973279176	209.051768656607
TIGD7	269.053237303244	249.193270428348	308.877027622691	304.844121431627
	181.081050726043	163.014903707857	189.160454951382	246.594244983507
	212.396522888943	173.829219279719	304.937584086529	133.682715540066
TIGIT	132.471014832851	133.463464118897	142.664793323255	142.701714161281
	137.42845093653	135.023016176493	135.509927917168	132.692027897739
	149.490064894136	134.446758753426	169.940177050294	123.318763391117

TIMD4 124.811760828557 132.128418409996 117.123891785437 120.324139035544
125.170874841845 112.054379249781 121.116206210402 133.861140449832
169.826068012389 118.47752077032 168.861884032201 113.432757764419
TIMELESS 170.370934381883 199.87003105816 166.788336808924
176.347535860374 652.826023701545 710.228463443265 435.48544637769
990.206369590236 843.545962045705 609.309339417625 385.317560758502
598.449359425056
TIMM10 506.898635822094 333.439929772897 300.314088267108
304.900910626137 668.286400833485 802.017244099902 582.642500194997
598.924339094496 729.499296070289 420.743637858421 182.235490620172
594.38228123675
TIMM13 132.589411973628 135.360087349634 137.848546040474
144.414055029474 158.439409064812 159.660564323984 121.99477069153
140.597877909094 142.501655618849 139.633941983246 143.436675541053
145.022242996923
TIMM17A 153.34166495223 175.79375235478 182.929326147069
150.126627487419 145.190896872008 170.725486814469 172.28937151007
168.124936529582 165.364935913232 160.667815093292 159.065612005442
165.154844613899
TIMM17B 337.434882771953 350.392951395182 378.088675670786
422.12964420709 815.779445689417 787.425941491281 497.629319581786
567.715714233608 555.109005518622 302.570932942847 609.100385482325
548.455251483009
TIMM22 640.255747986724 774.442392607873 788.244353085369
970.166036472486 397.737702926328 615.058712877418 301.49286558088
444.826775824095 549.692164962653 472.108893832845 463.802270256246
553.198321853202
TIMM23 735.449040059761 730.34994035645 841.285351463894
670.856008549143 621.489906442001 1172.96121022579 1006.24899131914
810.769136227155 999.658013198849 893.676600121113 871.528156184927
1255.02720867812
TIMM23B 147.192815700248 154.232310911696 163.426663985855
150.496616601699 145.917220112846 167.653412908384 166.099940078284
152.692483731643 153.461396593156 157.028963417138 166.85671415475
173.024402954772
TIMM44 320.812909889014 316.623219008156 326.640168906375
414.596948083067 296.290104133844 265.402310598892 239.33642662112
253.385592447339 206.257167235126 296.962992349662 234.738241125899
216.403542903805
TIMM50 115.235444833856 115.450352881048 116.118745494794
118.757973008463 109.817705421158 118.807135693934 118.070716076005
112.292129754508 112.977469350139 107.48180681159 131.444734367396
105.665621968915
TIMM8A 158.216790540415 172.641322197031 134.991379445799
157.612067634423 263.568160216149 150.746423638097 199.516043142784
178.563665283267 182.095387488796 216.731618532814 224.588225855066
202.927700504034
TIMM8B 237.601064742453 232.321454436688 207.298994298453
241.353916553991 382.186095123659 405.183882455109 294.595972099366
285.659010982301 279.26508919212 240.253944604431 313.536451935268
314.751799003704
TIMM9 447.674610082872 376.007938436483 578.465753476561 360.991542429346
362.95684683529 271.945851739635 430.94199035855 371.06697207449
330.281193038198 450.220658078322 452.961307006622 401.102586700919

TIMP1	7332.15849011291	7539.6945050098	4141.8682669995	9433.53967760357
	7292.0342195035	5992.92384160188	3855.33040541264	2756.22069438696
	4892.17875938832	3342.8737952486	2715.55326746591	4335.76831372031
TIMP2	2410.32095582515	2036.43904731226	1936.88813111969	1974.49672149862
	215.057917795456	242.188218870393	189.539458686123	263.606930507829
	395.327097512479	697.774882173237	226.020769172424	218.18756955522
TIMP3	2111.32236867229	1828.66165670455	1554.16120123599	2005.76678571689
	245.582279957584	577.801009921199	630.894382644903	276.582734590058
	309.580750386386	338.075238647592	478.293220151258	481.751102333172
TIMP4	190.850639994777	204.489837323989	158.226547375305	230.015981563049
	141.735123971775	132.098421212796	143.020244241091	135.59027155522
	134.105941085621	127.089567789608	139.530196462344	182.529167529936
TINAG	180.290887733427	150.507308901391	157.979749139651	157.663460168247
	164.281196089736	173.810080280732	155.207839370162	151.65364467801
	159.362293777146	159.443697452694	158.963726206466	168.682307349713
TINAGL1	183.26554404668	211.300733064951	168.05687638693	
	208.955110569558	427.249733213787	361.160881334174	811.912727084669
	197.848577663238	298.460273458181	131.977212025523	245.640193659159
	643.13571432061			
TINF2	865.800709006332	721.966539760341	993.774175699873	913.934874451961
	365.950612890149	372.149771075286	600.430996779799	516.429067667758
	626.857289492802	1828.66165670455	341.128917971124	394.73732350607
TINP1	2332.98074920207	2385.5958396359	3226.53426370323	1627.02882286283
	864.547109080675	1561.10217536347	3789.1316515671	1319.3522488218
	1542.35486950856	3510.24464112094	3455.20639616159	2129.84680802619
TIPARP	510.659785046811	755.79669622705	557.405157178952	
	423.489441909617	369.070376276471	702.981741565482	608.351527783086
	607.26455470867	506.165100641525	854.224454791713	621.173315178959
	566.543765584009			
TIPIN	142.383723965616	134.746175914762	124.124076599417	126.262349005661
	217.094085829328	147.401387099359	142.991135981933	170.257439890277
	180.364089931995	172.942666836182	153.000232171457	149.480971898888
TIPRL	266.395569467956	245.723316636363	301.546624239855	238.375823012603
	249.263194321516	489.403061697031	277.219796733134	334.772648743153
	235.595194918187	357.972320648217	278.469340236003	395.133831206474
TIRAP	158.74180418577	156.863232221623	180.680595239651	172.758230728437
	186.112835637689	151.9565369062	160.014635964846	164.008063563113
	158.645402461996	150.212688586568	169.447827110558	184.365354978005
TJAP1	8864.70614223459	9715.20127757161	8633.71708020651	15420.9668207676
	837.413261433363	821.020339593525	771.059329972125	829.740755449333
	864.547109080675	522.486866458783	606.162976359615	643.468308027006
TJP1	952.357976050712	744.808064061459	1069.93503700632	686.679573646733
	284.798325549665	455.665927568395	448.54309632232	307.410175748955
	470.746477818201	618.661249163439	462.553267274302	574.399909181723
TJP2	236.292053621233	225.169110687004	291.476113017794	214.546528079149
	316.457274749526	250.766180970907	287.593221911064	311.670576741448
	328.969023478451	347.932135290714	438.7446527797	264.955939320296
TJP3	118.601228886344	145.799530970042	149.113794439994	131.690417323838
	516.088776850623	347.3483417873	296.603054615145	389.853534237748
	342.935878735854	115.988180787152	378.585058475083	217.910445051307
TK1	129.616142780279	147.865114383296	123.694678408411	137.894482933806
	1372.63540073207	350.658722333252	294.653534388707	558.251384152474
	635.819650434542	361.829819621662	221.975219056555	530.969825236996

TK2	254.447650810819	195.532022060219	233.842749683689	265.829122816166
	236.164692035094	205.260673843294	188.490807652188	176.038123840296
	178.734634888773	208.895657507883	221.594737497504	187.461448376593
TKT	1848.27927621606	2374.1382412432	3643.11229751348	3315.21586182496
	13563.1694195379	1442.94175124818	3019.57419253979	1626.34607278613
	2193.376951552	2274.75133434566	1358.29475573637	1764.53168329081
TKTL1	193.245087824217	149.045654499682	179.163748161358	187.112176929485
	205.45079491218	175.810411923013	169.642188114285	164.02617650236
	175.269675831824	162.110943457969	162.802392115386	172.783430414523
TKTL2	104.977794653504	100.325215581101	106.576058729493	111.11656427738
	112.179019393947	114.860437706855	114.788353738907	112.476111928742
	109.355444907633	115.992487254175	112.282839763467	108.446988282853
TLCD1	125.815256068004	133.53523683945	121.752481757054	117.667611937195
	1027.11849332495	155.129304059037	408.10780961711	481.238450505207
	360.605223912114	237.420951138877	260.016906472407	180.54209603289
TLE1	404.95944990868	424.025588636796	316.590387560909	324.56043349882
	834.187014201026	385.750371084	302.696004448559	736.963699775724
	374.56251861444	340.903961204211	458.151323130855	176.062665550409
TLE2	520.585319342817	602.480822390671	664.60530723006	1011.14472068314
	627.803400871547	297.921617748468	435.183433729519	356.268960813032
	516.429067667758	124.003914369077	510.061974830525	341.501397478593
TLE3	132.484079454476	142.56910547147	111.423140302983	126.698158279472
	146.464937541891	127.058373069911	150.279529635193	130.611233072509
	151.379761514526	163.960242712692	135.554736716321	130.564962937297
TLE4	583.022090879298	497.411169898778	408.444629429553	295.420691959792
	206.027235767232	217.380892198811	195.364709354814	297.228563607097
	228.852495818211	271.397087928135	283.416246133873	214.662648581622
TLE6	141.609037401299	145.67389337654	136.951350782053	139.609751976657
	449.304281526081	127.884750925048	269.927694984528	215.194909819764
	219.901025447571	125.386545354096	160.338146803754	126.292433523959
TLK1	307.768302846647	295.607161318725	321.696082249696	301.908667220208
	268.724338967108	238.310077556167	176.890596690798	202.129153259445
	166.964057265095	240.283918204202	187.069074575776	201.105520537151
TLK2	400.783945471037	344.45331938267	475.540659315339	380.562212796792
	238.685014863143	375.539588956213	400.060972573122	400.180574613078
	431.799795646414	412.277592266475	352.811351813364	494.347792360629
TLL1	184.557630172634	165.70840218273	135.628982370682	139.420025842675
	152.915692742755	146.222195387635	140.712618356383	155.737364431382
	162.28074297013	151.317370941112	152.902458879101	133.951322753098
TLL2	135.726760147904	136.061992660698	136.691234705997	129.108534267222
	128.346598756853	128.856640014006	120.422401793885	132.472505035111
	126.972399784537	115.14883090249	125.997109913348	136.03117924052
TLN1	1334.69145271749	1415.67109281133	1649.46398639795	2285.86163259073
	417.615521090665	272.117599603586	252.655315526015	301.638918685657
	327.811191081135	416.861099188252	350.803378042804	220.217745732407
TLN2	213.484986945295	234.322989368622	176.874265462986	250.963601187362
	287.593221911064	136.935498266723	149.619141707962	150.670783991982
	164.198494818485	137.504147221623	155.143752422033	135.259226552938
TLR1	130.088408942008	133.101674466013	127.354826381656	131.516100334597
	110.408301129053	120.71782441569	107.221547998974	123.010614051218
	147.307419859572	136.392389842232	151.497680466119	115.107214937219
TLR10	134.991379445799	131.190238038695	140.826051635712	138.756638791139
	136.093473732174	140.513291662274	147.228812647235	141.370957100324
	181.491120129045	132.623563631011	152.470980074365	133.143695166498

TLR2	121.884067622971	122.965328766807	121.047419779542	118.684077097437
	102.166449349339	121.144174389418	109.586955365611	112.298254005045
	110.838647534175	117.60787142216	117.078720392441	126.019246614944
TLR3	140.826051635712	147.118987674809	133.757741295765	132.858424396011
	126.825785762925	141.062226285596	131.132508349222	166.595529296463
	178.997098204457	142.324077852852	166.108206159312	146.559502785264
TLR4	153.062710222618	154.340042518983	140.504486195539	127.566369352079
	126.87100632595	137.578516107502	153.903993884123	139.214589768245
	147.925744210234	142.861359851088	194.403848868583	160.045715314465
TLR5	278.274343962656	243.793465720264	351.448985413528	241.917371866481
	186.420541099902	251.787648609546	274.179232297038	195.50039162477
	227.847614397311	264.741946816665	182.084333814175	210.316431648335
TLR6	134.904123162692	138.79473329684	138.882483367088	142.281657284178
	143.2438241778	133.286702819953	141.653917856148	140.678336884951
	154.7326161316	153.041407358576	157.016659994185	137.404525565336
TLR7	150.694215349678	159.942971344216	137.929082565223	144.402160347818
	135.129656281091	133.875667250136	125.887854850942	196.329602378007
	173.38031514498	127.026168862919	154.501338425995	143.922878410438
TLR8	133.604705630582	134.673861365626	135.383585408897	142.815817738837
	130.763957515652	136.428826558493	137.114604159523	161.237544868191
	149.168758815526	143.569894807386	145.233055765001	147.479390172796
TLR9	120.846789922177	118.902823494379	115.649568330705	125.393848851951
	134.233014993992	113.400050190315	117.392898601408	119.382151435379
	127.177422395113	113.209569103727	122.072091994548	131.414690782328
TLX1	125.313515459103	124.418295003824	122.309041354217	121.665157726433
	121.884067622971	125.929743286163	122.490271802207	124.297848065172
	132.458764637407	126.690066353698	150.767158077219	124.225294244156
TLX1NB	133.511698282195	134.528971384442	145.801228425692	
	141.391508027714	136.660600727111	126.924014801186	137.183566882805
	130.925881698601	128.78647242525	121.545189875973	141.522701487198
	145.921381300813			
TLX2	132.223321299997	118.424520312293	122.368581795931	129.102182717009
	126.282575548237	133.459221120979	119.11586630281	134.734429133481
	120.263659727964	128.090665893885	114.631759839092	126.460390022632
TLX3	114.927420605185	128.628637585951	144.600474557974	142.677386111317
	146.231937458616	164.857465272302	136.858037332222	127.520134825082
	136.539849534341	121.04331582508	156.548858402702	129.79093244374
TM2D1	747.077451281453	704.448123154868	718.871732206362	613.279465441319
	928.672013047007	880.140852200235	1328.84172386373	1096.61874892572
	1059.19317548869	825.781627776577	771.512332113075	1453.88161495484
TM2D2	225.169110687004	201.969002368045	236.191384383802	187.425086057782
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	197.667299074218	166.587100972754	218.2454853526	215.194909819764
TM2D3	585.933822585718	637.695341427976	618.829716818725	545.362650746876
	475.038389500056	548.288640768746	860.315938621256	517.676093149981
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TM4SF1	1971.42527720714	2822.48671794913	861.786094902013	
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	1726.15788525017	1589.70261092241	1614.00098175383	472.405334652317
	537.216291942143			
TM4SF18	214.888126361789	184.187847236508	153.448882783807	
	159.966729941991	162.127697884504	288.436880408624	141.408545519654
	196.759802659759	191.056705282378	189.758013811338	160.243405030742
	185.997327421952			

TM4SF19 130.325073627151 122.888626394154 128.045931477827
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128.158605637751

TM4SF20 131.371129237005 143.725497952919 129.067538010904
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TM4SF4 126.506749037908 127.209043595332 114.953328013917
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TM6SF1 141.38612990166 149.630481387506 136.19725093985
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1419.4638331856 1925.60246708149 1412.56164938199 2089.82894186824
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	129.705735906962	113.504670764963	119.562180492359	132.220398477217
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	175.327597807738	134.569883788949	232.385176936256	165.158465031363
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	119.701313125748	126.452500728601	137.546487338984	140.754706171596
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	205.149094703318	138.670077127324	202.162432624505	151.40067812803
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TMCO7	161.608941774391	162.890650672747	185.801540278924	169.963805688413
	155.413300826229	147.600825146067	170.974759483946	152.09245741643
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TMED1	532.235193634196	445.214621023114	460.408628542721	498.43420754121
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	3989.14883668905	2847.42635118026	2572.01353724341	4722.64356477773
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TMED7	534.608644989102	466.257158794525	518.760142491104	386.85874184746
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TMED8	117.284724854784	130.686857648764	118.673325109944	127.365142833355
	123.291258843371	132.823333905679	123.21112178671	121.468398802591
	128.963962067821	126.364445020215	139.057572927874	121.003207135942
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TMEFF2	179.509758601636	157.940873610797	146.40033464957	
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TNP1	172.84784588171	153.885582272269	161.195562296834	189.872997882033
	145.97330701968	155.417694869593	176.75095377028	150.070213543579
	162.312313953026	163.480722123193	154.232310911696	149.04685599998

TNP2	150.672985449063	131.984467471242	141.953114738413	135.020690381988
	152.104170622003	141.811563725942	139.473459411633	137.550607284001
	143.447768653042	130.758707848676	119.083957999725	132.268445799639
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	275.343591424586	351.188086838653	364.964572587289	304.152390210727
	273.353254857377	341.564749445905	352.897241809959	360.243484271891
TNPO2	1518.13775377335	1658.78888936164	1516.97921112926	2107.99357083999
	1202.74869573717	1699.17470788219	903.503768217033	1259.75918248468
	1088.25132365974	883.702573960415	1091.12493937368	973.543357809971
TNPO3	566.417354841707	657.77730563722	552.962676093514	776.411045078049
	546.029974898225	389.051174954505	520.470790410856	436.222568287601
	390.979822976551	384.216141843863	595.270107963842	479.395948662331
TNR	151.671024612136	139.15175079191	136.294479720968	133.621325902558
	135.573170189235	126.606163970149	122.863612588759	142.434356144925
	139.367493349339	135.191440283047	126.178476831007	149.25240100689
TNRC15	419.902534806131	368.825190022937	404.95944990868	
	378.509324619452	247.899467998443	280.749681050778	290.754210152709
	237.989479738133	273.75192868583	284.104619768635	264.429717032654
	331.848516303011			
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	140.227863970629	168.682307349713	163.885645883066	176.849238577762
	156.151075965844	143.629760301493	153.088710298368	154.118601977256
	162.560758971445			
TNRC4	147.955701866515	154.691783046492	130.955161943331	143.385915173392
	162.259941098076	156.191659799142	139.870306695324	167.357570666817
	140.936204899093	154.350107666084	132.601272107742	145.906601611338
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	265.332196877456	168.323141675824	203.888365494623	204.137195524755
	213.194154171149	197.405472374722	178.542247857251	245.553138677866
	213.914599384797			
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	286.587945301875	185.717123241832	271.087125858775	219.878230463206
	260.642170838161	237.249949461085	219.96819201774	237.191866335979
	262.691387377392			
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	157.237147919803	160.843325877861	162.351212914573	153.848852170776
	174.177944561595	165.158465031363	166.784804508647	139.527577649638
	153.882081780197			
TNRC9	131.762145063734	173.424541543058	137.029726467523	139.15175079191
	315.963526790659	403.907009699589	438.146919555296	419.902534806131
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TNS1	770.19255305977	984.695710317818	556.31484498921	1513.28088592885
	175.857952663383	145.875240619257	158.98007855379	163.736324784234
	177.976550224863	179.451637129672	165.177036955944	176.516540713888
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	1082.00448164658	488.379057110543	456.656123023446	906.359365544713
	1141.49294161587	589.070196307574	1209.56018864779	1240.4863200811
TNS4	116.019123495537	125.038427667173	121.821868944354	120.106270603148
	130.721987260546	127.31790396929	135.589211439847	147.211769989922
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TNXB	136.593346330215	128.118223792086	135.906115546805	133.921012946195
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TOB1	761.89271251455	807.3257139219	1061.79595707572	824.070046083713
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	1623.92991386706	932.505095432049	1065.36715400306	1089.58643309156
TOB2	237.146972312448	302.272304483941	294.48534582475	245.915473236403
	252.432175363972	233.59297160203	230.620456579897	246.369521698487
	193.16411905957	225.61275910008	397.449905380349	254.668502187945
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	175.670738308809	172.591885279428	161.592528958127	182.560363283264
	155.02097482487	149.997047695778	165.181215117323	161.338215647108
TOLLIP	301.139737613279	303.555333002419	307.480644393018	
	390.752579014611	329.604568691377	304.237479317271	249.193270428348
	270.787490294555	265.61506544085	271.522696252995	344.487982154705
	281.881563164961			
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	639.011144305614	315.130912368929	345.627266482686	298.625127845168
	399.872401268958	824.070046083713	231.257543784864	254.991678321253
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	123.786227856015	133.909219998872	168.783725505491	190.614236149496
	175.819983804497	179.009510246709	176.953099943185	162.728630453745
	171.410912120195			
TOM1L2	141.88777975766	141.42859050659	131.548634017902	
	137.25679451567	191.310372695208	142.80027343095	148.727953739127
	158.157097243342	154.475735552851	297.708113541379	184.348894461271
	148.846121873401			
TOMM20	1282.84159765715	1177.70376288106	1937.83242524439	
	840.276501350383	725.621153262924	2021.92898855142	2157.50118108142
	1916.46158204806	2028.67873136046	2244.6916226146	1552.69879081022
	2586.87941889443			
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	140.296609941747	139.694950277714	152.743680985848	129.616142780279
	140.213080190065	148.656917603142	121.039678049579	146.579073345319
	120.812738312059			
TOMM22	801.051513639714	828.683748921915	866.413995755699	
	796.052115217208	811.564396886535	1434.1439428394	1037.97124386242
	1185.70008959602	902.822697602452	921.140932799223	1092.74905085695
	1239.13016938378			
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	632.278924237678	2320.41293992992	1838.18547839898	2828.97255380291
	1448.64875525408	1513.28088592885	660.535644289024	2080.47567326037
	1158.057104827			
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	1013.60354455825	5300.67886821231	3450.46728258139	1982.3154578939
	2758.01526530661	2744.77453865893	1736.03342040646	1116.19403476786
	2139.42448145954			
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	209.54573978355	206.21848253717	170.4583554058	241.599271777806
	272.500572765647			
TOMM5	596.743397794872	548.455251483009	747.587723573212	433.928818077527
	2146.4265920569	1259.38111177521	752.142287661845	760.272612245092
	1034.2217095753	1282.84159765715	1086.8615735568	650.263737836685

TOMM6	1721.20676889116	1663.71411325131	1564.8868894162	1345.8970795036
	1620.7954553764	2491.33490046283	2926.06746795504	2225.59207490574
	2583.46653460894	2426.2098937241	1876.64079464928	3106.94181270197
TOMM7	12577.0915543468	12046.9345159347	11647.9643290124	12171.1997841553
	4938.42484385053	4722.64356477773	8401.40370474392	7699.37963536892
	7969.0710242842	7389.95365139168	6484.36742084268	10836.7380675792
TOMM70A	1427.27262061653	1612.79779117655	1667.86825735893	
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TOP	132.517166202071	115.531710316716	140.217243202557	158.610249594568
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	152.486212022518	158.6953558198	159.730925830278	135.812301062763
TOP1	159.19183334563	159.344044864557	171.644710031098	162.199381540369
	186.529656751005	197.795275907042	195.160353691349	185.275787562938
	190.736796322054	157.668307146391	202.99342484328	178.780662099615
TOP1MT	220.487665103019	221.594737497504	217.778414825515	
	179.57046217355	268.961643716282	271.287767448621	233.59297160203
	271.468939477052	232.023739004791	252.473612525884	250.766180970907
	337.822337721287			
TOP1P1	137.911816180518	143.46919253255	136.342634691443	
	148.848823912244	148.530422089937	141.712693059287	149.962143642332
	142.956870642583	141.019494314354	136.855445270531	133.71610564207
	142.869595099569			
TOP1P2	274.202831856221	256.729891423908	214.888126361789	
	216.126000558319	299.039192744355	349.773289724658	358.60777927888
	298.460273458181	339.252515920242	333.349203784021	361.969355316032
	302.570932942847			
TOP2A	114.936648783324	192.244413515864	114.726808450831	180.986305037222
	1174.69701182094	3073.40543048878	886.157279090932	3241.23835624706
	1681.54485582868	724.607317443904	421.056268094661	983.094485868275
TOP2B	1565.64079526732	1687.85201395597	1810.68433539154	1521.61996270758
	3855.33040541264	5073.27433952351	2637.62596741408	4562.75659565027
	3321.1350545346	1023.94850651125	2479.34567973462	2441.05534211996
TOP3A	276.714748212739	298.776176246196	274.831898505989	333.270203737291
	233.20900339048	343.767393640683	219.171591031864	305.542978609337
	273.709160508205	239.403872988317	258.489608621438	221.512905853031
TOP3B	195.353512458837	188.641397688261	226.387465899611	213.556015518863
	328.431289733169	275.169415154893	296.75326294587	268.724338967108
	382.960724128105	250.718986968076	233.300864925399	278.498278821829
TOPBP1	435.603911474926	442.86942574917	415.957832362051	
	449.103432410618	347.147961254829	663.668537495345	432.604462607037
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	642.255110250493			
TOPORS	192.399146702036	190.850639994777	196.429685815196	
	174.727439318223	173.675115244522	178.284294783418	166.263781040251
	177.235586767256	178.606255846041	176.289693941489	223.042575796603
	177.508603290389			
TOR1A	486.197269936713	482.857203798212	524.855915371246	424.855168311509
	538.647888236878	515.597523880328	498.334266735594	504.617795280805
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TOR1AIP1	1309.7660860424	1029.75852676191	1525.24196488688	
	998.631321857182	527.707841428677	653.500279510032	1053.09915077366

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TOR1AIP2 150.507308901391 139.361120875198 151.865924163231
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 558.251384152474 188.567747377006 178.262619516994 161.382041789666
 159.688862680139 226.055406842613 729.499296070289 176.382377784553
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	1865.44709751822	1720.14021303639	1759.9632914516	2028.67873136046
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	134.361949431678	112.547907748842	125.021217009254	120.170269310738
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TPK1	172.750926094884	171.626438561923	201.085046871333	167.106870400592
	172.509081696309	201.085046871333	175.752091217351	171.722839172783
	183.193029399643	170.08485436731	211.766884719761	233.786136606682
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	263.123584372086	330.908743070095	197.873787638411	402.694564608582
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	265.402310598892	415.642099109855	554.652979820908	325.493177980483
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	315.565349831797	548.686094748117	295.973370766318	494.067878734396
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TPO	122.197625748146	123.547821639269	117.404906698431	120.39039576721
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	127.683344133492	122.600274773736	128.23910347716	120.871693555514
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TPR	362.581768268116	347.224999246223	328.550286726543	324.481229901658
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	128.158605637751	96.0426636429757	106.667175621971	105.49491265382
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	177.567833691547	123.271452939936	137.31708798874	116.52455193626
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	230.263678910356	265.260411490697	129.155804800869	339.753059801136
	909.020708316287	188.973595445056	161.066226957782	156.033897758869
TPSD1	112.565341690522	116.155949676272	116.558752619296	124.522974214212
	119.285026330891	118.24368469845	115.384304932365	114.265920150451
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TPSG1	140.137435303984	123.813766735115	122.816872726758	119.819082491115
	127.206177583275	114.350596695469	115.217608555334	115.47716627378
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TPST1	1046.13353853089	872.512754090023	1091.12493937368	1033.48252432603
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TPST2	264.526189799049	287.593221911064	244.689936990021	231.846509449829
	622.142195892701	444.663812851378	538.156335788156	365.864755316163
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TPT1	16397.4527321924	16328.5991894287	17324.7697569598	14181.1182110192
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	16362.989744896	17067.0086403248	10608.0671430066	20887.0399135573
TPTE	120.402155551818	117.67638166062	113.78644620959	118.414329128347
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TPTE2	130.140958819402	133.948997488604	134.457932303561	130.326980619676
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TRA1P2	253.933478547515	182.02250582556	199.746775121317	
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TRA2A	387.305348482856	406.998800177456	503.285430318683	302.696004448559
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TRAF1	170.931788192825	159.43317827517	166.192990554427	175.395900648455
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TRAF2	175.902751522861	200.944865673409	135.33941967076	221.027562527572
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TRAF3IP1	166.89285636895	181.439775614781	182.698275130489	
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	154.179891883612	148.090431893307	169.061364889307	155.924471321076
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	223.429738319185	365.650071660806	289.001004912528	333.868818855397
	280.170464338141	271.989060206794	642.934824227327	266.19823384117
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	128.09266452749	127.776112651456	123.67449826277	122.568743478314
	142.467552395104	184.844915350411	142.853399942089	153.714902281332
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TRAF4	133.243679173608	133.819095523687	123.100949494673	130.056727701826
	594.180861801958	243.793465720264	184.348894461271	189.74261433647
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TRAF5	276.138650967632	251.511405838796	245.915473236403	271.945851739635
	121.255814891176	133.416938451465	160.724319010751	137.68634745111
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TRAF7	140.502667595362	152.459041674768	134.918496279185	158.183045411298
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	169.028519464989	211.660148497276	174.313718712035	187.903298116031
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TRAT1	160.346554422714	163.521095869383	162.466301774088	154.959217895243
	160.035282578603	167.194306682927	160.906550609416	168.197255166255
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	115.16087297104	121.730973193225	121.459780480915	126.910075365358
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TRDN	132.664379033058	141.97478198531	132.8615886934	134.022324496729
	126.090985925439	139.757191608836	141.158593399952	127.314089756429
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TREH	144.829773937102	124.930303940168	124.705614182596	123.168787977805
	131.000186898437	122.216479103528	135.730331297139	132.409582164007
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	158.312614511836	164.673579538023	159.832405510505	162.895923745031
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TREML1	160.419358656559	164.032302455558	156.061579024549	
	174.881557472722	154.904424749528	190.939726271153	185.706228572019
	155.558839375761	166.540134051424	164.769320792025	145.877943006533
	157.233463720262			
TREML2	139.844984829379	122.770033312519	147.23376282233	
	135.18026749895	132.508133846896	139.168307371516	131.153457976248
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TREML2P	107.544568250154	113.427848757112	116.615250922316	
	129.654234837398	119.934231033302	111.09179957013	115.785084044427
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TREML3	145.872258115708	142.694748293332	142.428578698775	
	137.702802090925	143.628147237159	140.78902818186	140.26206122305
	134.952584272187	137.800512046163	147.535225305685	135.728336465002
	141.127519700052			
TREML4	112.684334910243	106.066897223031	106.685578858702	
	111.73388372572	112.190904058889	106.685578858702	114.200099628087
	110.501341211051	104.442909315944	108.446988282853	110.22624111837
	108.79453730066			
TRERF1	166.795671029174	154.347332766547	151.570977428443	
	149.460660195293	175.752091217351	148.763098715961	200.387623661458
	169.649251828199	162.373508183992	217.050602253281	185.661496988658
	207.417884407459			
TREX1	132.510116371195	141.129013595331	130.179742057015	136.770515182612
	141.659197251282	135.52861375119	142.126620107418	142.215285988753
	138.334626498686	130.829825154842	128.060612106762	133.358701657264

TREX2	128.075865243385	128.79607493422	131.882887826338	134.434198188045
	125.132610413051	141.576177844986	139.17480484652	135.335107344583
	130.617505834747	148.26621607986	144.185406500473	145.762724663455
TRH	124.922004609558	104.223476853877	118.029258839619	110.875112640101
	116.280157890082	103.888971448792	116.155949676272	113.597215383696
	113.125349503734	103.520748827831	106.263441906404	112.464951599416
TRHDE	148.049570580734	134.978785580693	132.106673891288	140.965498009244
	139.278366709094	133.467092274663	125.416113646128	136.220324225816
	154.079355899056	133.238296113721	114.072600760808	146.470444212748
TRHR	130.524630778991	129.382242021964	122.595766303833	122.254824223167
	138.338280468272	130.354641020141	139.348494759948	127.581332110857
	133.805991920905	133.704706615071	132.367155914392	125.04156726504
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	149.604507483606	119.548432046443	123.288028185949	119.360478719424
	152.617507769717	128.108066199718	136.425263391752	134.922488718676
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	142.920939571001	145.08246303652	144.542320520523	139.32751718663
	143.157807632147			
TRIM11	198.437113196596	234.243977361232	206.149539851803	
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TRIM13	589.541347392215	663.451243037105	615.485984065221	
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TRIM14	129.875986080057	120.971313945446	125.293640452686	
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	136.903588075134	128.182419321978	129.389420352857	142.448384713937
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	115.343251487944	116.987471433258	116.280157890082	116.884397420467
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TSGA14	188.36361073603	173.182013165174	212.073472189229	
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TSHB	112.75167046116	121.168550902281	112.520199390427	121.23469201559
	109.384112020063	110.050374895171	115.285392699073	116.736174147084
	113.432757764419	119.578240680666	118.527464364564	111.398760606544
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	136.969124414576	137.987255649072	133.812639120892	131.2360427855
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TSHZ1	510.972389503051	621.173315178959	527.226517960073	577.250493023431
	157.800913051929	244.514230664694	230.263678910356	302.1846598234
	281.369059516242	256.291984914927	292.23287968517	251.268669431283
TSHZ2	421.929674562786	516.755267232127	327.062810389635	538.605085454393
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	218.18756955522	149.049931380459	193.084818760857	223.128108720503
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	187.903298116031	220.345184229077	390.670702155192	170.590817818414
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	131.449370465834	130.217791888656	125.579970155301	119.498312996987
TSKS	122.646850766733	114.749597426757	125.649525720177	136.944378905743
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	118.039780360151	135.092226300609	127.104097294238	161.019770036957
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TSSK4	135.715745768179	135.621035941292	130.262411213764	143.394704760983
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	138.664401460739	136.246543311291	117.805556408194	140.781647532361
TSSK6	163.81485578613	151.431513447721	151.674143983846	156.949439724914
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	157.948814637726	152.348210524663	143.085022888434	156.69025356689
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TSTA3	200.98533822317	204.710203150526	183.247396324425	242.440966395613
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	163.385727569154	160.843325877861	211.891710626953	156.923675862035
TTC13	209.112959748917	201.987081022654	222.005022189667	172.376544221034
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TTC14	523.306451464643	406.638419179213	495.655170027296	322.889296658955
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	330.641230715217	327.062810389635	484.363052437459	367.644907862372
TTC15	718.670564185576	710.999354960979	692.945420109927	796.699879495384
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	130.606211166873	143.879597098414	171.262412981612	128.174382934295
TTC17	585.075322115635	574.035124314622	713.23381913235	518.760142491104
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	580.164288826741	890.507257588957	576.298671053238	764.493610798958
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	258.16437138327	287.751093664085	226.841838641151	248.465457421469
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	124.238319768621	131.832311911703	122.809241232029	129.618097261902
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	146.748572532267			
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	170.091913791176			
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	139.482462221798	124.69564501518	131.391434131813	139.94624507228
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	134.860896462638	148.350919010575	117.692662275393	147.748142622566
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TTLL6	142.551161883518	134.534815676852	137.176144667253	148.045391886623
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	1091.69584249713	935.042067053226	886.517088614968	1310.60610806797
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TYMP	173.088291472857	165.576758218571	153.62335478774	139.491769969541
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	1427.70292953827	599.307072499899	464.907454552364	892.515788744891
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	112.875136585606	116.925863450165	119.539713878832	109.384112020063
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	210.803130108618	234.432954093705	187.700723296295	222.624150073858
TYRO3P	117.897556445952	118.544870925791	113.470356909765	
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	108.515401509039	115.270544506813	118.540620928268	114.841964705981
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	4503.01240138314	4621.99241522677	2995.42172749615	3917.05893989806
	4621.99241522677			
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UQCRQ	4773.62220024088	4536.46344538492	4671.10203385528	3963.40575974446
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	11071.0448447818	11071.0448447818	6919.4226838505	8401.40370474392
URB1	203.960838492793	177.910104644497	166.592366578462	165.131463797217
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	172.319604146201	206.73292907905	177.772019227116	220.661922683143
URB2	219.814706416471	213.123453925578	218.70412656621	207.785320401354
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URG4	496.218605366298	599.208370337812	538.605085454393	703.587139938769
	561.379619105609	345.649572073924	543.710330214344	403.812520074723
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	173.611295051326	166.600109853461	165.731179108649	180.179981672095
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USF2	380.146996799549	392.582612044755	348.848550937417	513.20896845398
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	342.403428822464	301.369680426563	339.012225830929	282.101714660307
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	168.873282919232	169.956827727468	190.045156046541	170.885640563747
USH2A	135.061176512365	124.768399055809	131.523538461751	124.551603326682
	126.809252651352	126.536245975137	127.478474451121	127.086470811408
	128.236840746655	129.994160770036	124.69564501518	129.445240570626
USH3A	107.205247133938	140.543382412084	136.2336179571	123.505435008269
	127.799190369808	124.915772594451	144.955918499353	129.902965506953
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USHBP1	151.869928694006	140.038295509875	138.49309476462	
	141.771850804164	156.756159786366	137.30143217822	135.878996521596
	126.355699811531	133.869867161978	130.684569384626	141.8268805463
	129.625046507677			
USMG5	179.286187825363	128.047981250943	129.140978620864	123.689439578326
	352.665030560239	138.394923932916	396.526590512521	140.798706399757
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USO1	1355.07170485397	1149.3250945792	1470.23096656138	880.719593734606
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	164.247251507109	175.010849510711	148.670562837021	178.027417594263
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USP13	423.562598841704	383.033242143031	415.388760988459	432.515970951769
	182.68965110437	266.80383076887	171.759102794108	229.74418058711
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USP14	383.583234619781	324.481229901658	397.449905380349	339.012225830929
	223.81987303579	307.020265874666	186.077477713775	246.552713031445
	203.357914242777	229.805500520256	210.030846572444	293.986292438714
USP15	300.886032768166	273.709160508205	341.361299896997	277.726756691133
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	223.551813819581	240.663883443935	208.42712014566	241.251507026982
USP16	365.140886302762	383.682951666155	462.553267274302	342.935878735854
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	474.216057978384	406.638419179213	459.771019162573	442.027630433527
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USP17L5	132.923237903246	131.766114156138	131.336902822702	
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	130.249430984172	127.893555451807	114.995889945366	130.726640485925
	124.324855155055			
USP18	136.078724167996	127.224081416987	140.283106734666	119.562180492359
	146.370084152094	198.055877414824	164.268280525424	183.371103136697
	182.197625235191	153.857048476879	176.927500850631	164.38282966938
USP19	155.592219571564	167.887047631073	151.196713920345	170.636731478608
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	162.599466021255	147.519991961858	152.251128595777	166.385492585683
USP2	148.485884677572	145.987228759402	162.54008293513	147.320976507643
	146.877475544399	134.799648755296	150.003399000079	135.940629737073
	157.967824935915	152.758653228708	143.333211390741	151.497680466119
USP20	125.655823846115	124.910390240995	118.348153875356	129.476648077532
	129.992015202357	127.95281733488	119.360478719424	112.771141378159
	118.879931299016	120.96098661114	122.646850766733	119.207503310618
USP21	215.506175859782	226.623172906957	219.103510284905	256.687384001447
	300.709410518382	208.363905749882	238.685014863143	250.30085097088
	204.851374931284	195.20398666139	222.943046618742	239.148333781084
USP22	140.89390566467	150.786618560854	156.396579029788	153.354921961854
	202.849544035436	154.362571105094	148.983182193411	160.150336334888
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USP24	548.014025722956	468.712260193746	720.077057619735	592.079898463345
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USP25	191.220064414876	187.729071402782	171.130215858803	174.389706515542
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	126.435928518593	151.387150218354	153.075594260208	127.79057041268
USP26	143.239666389592	138.53403492914	136.387904287903	135.182524652868
	134.477081392474	146.174492025087	136.452338158252	123.563243360247
	132.966873990501	141.929924728222	134.285191872099	136.659134200122
USP27X	147.673016541108	158.863516051439	147.379741260871	
	170.684848540493	170.035994634371	145.241301006518	164.634694036993
	148.336126836362	158.23562423217	176.128369308989	155.362503575715
	158.558471586662			
USP28	146.629335531037	152.385014030957	164.423960071908	172.451128796055
	143.864036545717	147.901594006094	145.418696807842	145.112399373761
	143.045416067967	144.101376910581	162.390356943447	142.464394555901
USP29	111.73388372572	109.416512252532	112.298254005045	117.766156390814
	109.30275288389	109.087574814292	106.576058729493	104.442909315944
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USP3	570.771089597761	462.888171502285	630.894382644903	487.799854351205
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USP30	124.874757806833	121.849460555655	135.726760147904	117.255496552581
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	175.084729757407	155.979380606594	155.865540894526	165.411052799773
USP31	152.422690241301	132.379706531581	127.895989232696	142.584504912189
	128.914885412263	143.470181156799	161.852665901359	131.928871107722
	128.429007921588	149.97218338771	159.773576221107	142.228042097379
USP32	152.705458417973	149.622695843398	140.411200873743	145.999823250463
	138.081268025435	154.558968826495	149.921414617149	152.454414703534
	145.107675450957	146.194467350201	159.420533375725	155.731897985566
USP33	184.974347306539	182.095387488796	177.825648107126	143.990328432869
	196.031541155674	261.639437655633	204.695311233073	200.712182818203
	253.327404004524	226.841838641151	199.037998955485	221.18757533703
USP34	349.773289724658	340.966515437272	482.677635089583	354.263934274937
	230.620456579897	518.17401959981	395.386242257877	446.07651799079
	353.98839683842	421.056268094661	405.766055310869	429.680602294138
USP35	175.313689069815	203.11015591813	195.981555981238	207.531908382266
	185.816827784447	178.496344474999	163.170983091116	153.399787997793
	149.997047695778	142.276853170778	160.887121295848	167.893596681867
USP36	308.088967616175	315.828726297864	348.640185950469	317.273940108333
	253.867947800583	399.872401268958	438.817248820137	369.592501881153
	315.130912368929	433.019478861638	200.094610104813	308.088967616175
USP37	281.304989265608	279.921244070981	262.389583658305	271.468939477052
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	244.350562866593	278.274343962656	232.023739004791	238.037110997575
USP38	440.916522871266	454.732029358748	462.144334719146	393.500781010617
	328.730722366546	479.395948662331	594.92419264579	462.888171502285
	563.648536446918	433.314881387431	399.724529998085	564.749082802433
USP39	571.273512452931	574.262112643403	756.068695265118	546.755305058958
	621.173315178959	744.808064061459	490.269418483997	557.214020485204
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USP4	213.791379190359	214.933911087009	242.787656836745	236.401834189942
	181.412790232996	260.016906472407	347.224999246223	213.240181616274
	232.960832410426	337.521614253267	312.557093674533	336.338518973032
USP40	140.768926302035	142.469353808346	144.321757243275	144.246749835693
	141.834582245454	157.252701277198	158.95714101556	160.557818466874
	161.806144472744	146.701489210289	165.380225715852	170.79303550487
USP41	162.240414467004	157.446725405803	154.291717784335	155.815785551964
	159.327764602722	159.146745596683	172.237115475147	164.970438494223
	160.256877369493	159.046016068252	150.989202517615	162.100547394235
USP42	327.062810389635	295.367125961621	323.225475312396	290.867822301134
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USP44	144.822943770596	134.332550221597	160.050872656883	148.158062155247
	142.882391486465	141.386812131149	155.651798065702	144.511488474344
	148.956326355381	138.436029489092	142.560797028716	156.834059922255
USP45	174.727439318223	137.048292841566	165.71382076724	131.525916493834
	117.976107125982	145.797047170492	129.425699141995	129.394359810841
	138.997524526643	135.358837968905	155.214638707046	147.928629511539
USP46	179.764260117544	203.004815689972	186.388067641269	205.908052642222
	198.166270627544	240.12078342024	198.954254778846	170.918584418153
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USP47	515.327420453564	448.858580689107	546.841563406813	587.54075434249
	135.375268329248	214.396920524803	154.737117718424	168.634534857593
	199.477350542491	158.573561336755	339.54582149284	197.543089645432
USP48	188.924084292126	183.294526267593	192.789886894821	169.184111483933
	228.384686248604	214.933911087009	248.965394617795	240.224826736571
	220.876114717642	204.842791081358	220.047563627558	206.548878646452
USP49	10024.4662743012	10222.4435857673	8211.38792799248	9378.87287299048
	1094.67740173529	7681.48027081818	2982.80580616089	5467.84611694564
	4159.96851384358	3237.94149351627	7038.48958943724	4061.24537355697
USP5	1283.68791110988	1639.76556136383	1372.85779994364	2217.82628612929
	2392.93562797606	1022.11537745428	827.400420888645	1275.43768532088
	1084.95095717937	941.065508539108	1055.79590411506	1139.14730341921
USP50	124.693253194681	112.891050337488	122.959518532165	119.079680805247
	111.876915242732	109.454483612299	114.874358180801	118.614641349402
	108.318510762416	114.191245210321	135.559535347364	113.536570797896
USP51	129.105655010455	141.777089987975	130.900049359243	121.893446546512
	128.814967091609	112.666812944192	120.827732270626	119.926169902322
	115.174678745401	131.423918669689	122.932745723044	112.357261386644
USP53	168.188793271919	144.649656552	162.082166316002	145.660417208595
	141.770977101211	180.304585602206	170.099045774947	180.837420957945
	165.041296694491	188.671807443641	171.941887376462	165.443069511115
USP54	199.579818754014	162.57736365619	179.624208193114	164.109321257638
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	181.183277133224	159.182533998843	159.650116062266	183.583432296209
USP6	132.985645792864	113.938636269013	123.051777473512	112.026113831896
	119.931415360373	123.694678408411	118.26427946535	123.494412056415
	126.699152957332	127.209043595332	156.437949042181	147.125005489393
USP6NL	152.758653228708	172.622816559412	134.294287947795	
	143.50323531501	228.058870735016	268.224669588188	173.056715623574

	147.728018766726	182.066922756289	148.490236128772	194.002075848131
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USP7	401.960630197091	360.551560710852	369.906476027936	431.304147578425
	368.825190022937	381.484062427466	374.215345412947	411.451612988791
	478.479988875208	284.321253087512	390.372738176917	416.215253990273
USP8	476.917496749381	458.607367472574	417.024088698182	400.783945471037
	605.437395034282	415.82312615045	522.400055538966	341.64890727921
	487.537691131703	479.638653311025	476.249239197777	517.23393716516
USP9X	525.920873434688	480.484639351046	555.109005518622	481.037647470809
	300.247304779062	569.967953318205	423.562598841704	478.699172220804
	427.390091157726	441.684169663552	429.457884032977	466.58966852405
USP9Y	164.172084711099	143.399877326927	145.591320521493	127.718341524417
	129.476648077532	121.441901286752	183.348764012358	187.93380542729
	156.046085830566	112.841406363391	188.981391266203	203.960838492793
USPL1	371.127480221666	335.013713757031	384.216141843863	251.665539319612
	188.252507246148	259.229153662504	271.468939477052	261.844708446856
	321.910803473854	236.676029292922	316.457274749526	480.593729033799
UST	384.733313349438	263.52595855321	308.281798808746	234.28146549561
	171.589889474122	279.026742408164	412.202049714695	188.74403596953
	258.915802108562	217.074639597142	360.39998507367	223.373877165342
UTF1	113.083678884076	113.791585365477	111.055738573603	108.530158480237
	116.433239116749	104.285022032604	111.484426481816	109.932577444858
	115.845468537936	115.76177719261	143.697931551096	115.211731367278
UTP11L	667.156197045748	728.485195792194	924.040923247227	
	752.142287661845	504.275299381356	659.106229917309	499.176926371542
	717.686676823785	648.823677010146	621.354393918348	490.153210371094
	709.778171909457			
UTP14A	298.301504581296	316.895545640437	400.924914238052	
	291.683896942007	260.41082304175	432.515970951769	287.242697383558
	344.021696764791	325.907037744936	334.377352542623	273.044064077
	379.670492165938			
UTP14C	369.198837083585	345.732364434125	424.578659172414	
	326.246702537465	254.812605074045	407.875393458322	175.400802387403
	347.620001353026	432.372995789404	272.666435295288	339.379250332987
	563.490027149224			
UTP15	186.06425658259	173.87113073582	170.430478598594	181.500222423634
	144.951973735763	211.766884719761	204.654489493854	168.801737310947
	168.50246276469	185.359195899057	180.569583206488	209.279164243868
UTP18	195.282045838381	191.040134068942	204.959164579011	164.890716656336
	232.492398623889	352.303782547593	300.199170426996	539.27766384282
	351.292682758926	280.558463661137	305.398934391579	331.164053277361
UTP20	133.141683141696	142.902838068479	138.405215507471	138.367321366804
	150.3259737066	135.624881949214	145.665155500862	135.393901125889
	144.528360135884	139.21331678591	119.161972571516	144.482364671273
UTP23	249.379605914827	227.209630859635	223.359785518285	225.664432111551
	176.86489466512	262.093405224922	252.810636571566	238.617228632505
	280.990656342284	248.204358220728	226.055406842613	295.278972023002
UTP3	238.344676327918	228.184535093641	204.318316638312	211.679799388351
	425.13721408756	229.542259738438	305.768201359278	305.050933898691
	336.639473916174	270.490971664802	392.746574862867	301.369680426563
UTP6	821.265710686098	728.930140593418	823.297606185721	797.501324589697
	2274.75133434566	1057.80846320642	861.119262963015	1594.05763963363
	1230.63920848575	945.403379196643	673.502723625773	879.301932542031

UTRN	173.526005872207	150.709091532746	171.537040561599	144.78971417658
	156.349030617265	154.973990421257	170.918584418153	169.656238760589
	172.128489882364	162.975988989106	168.156002330441	177.94501172269
UTS2	141.382096896508	136.973804637915	147.706402141169	142.768691899824
	152.323927317575	154.01988200569	144.526499066594	143.440420261133
	147.463822782303	151.979221390032	142.05571112803	144.850211439338
UTS2D	144.165277164871	148.986058473609	144.482364671273	145.992883153161
	131.926504315744	144.861804210272	130.198147836925	141.289009185018
	147.15999706579	127.075899925865	137.344198938623	131.961236721149
UTS2R	152.504620068655	136.946137446743	140.431591727649	140.868946922293
	142.112120308118	148.052222389368	150.241585041178	139.044150521333
	126.828097770667	126.153806511702	135.345616014558	135.182524652868
UTX	235.407064742194	253.933478547515	286.996908547553	212.396522888943
	258.830885826237	337.434882771953	343.767393640683	382.701467158304
	220.446775597113	208.194788326109	293.825372123877	259.472319994929
UTY	194.655710454472	160.648791273795	160.379168489216	197.848577663238
	144.634118305223	125.879198238067	124.277983696239	158.760577365464
	168.813895764991	126.186758919929	178.835679834487	138.281188275319
UVRAG	205.226635237992	205.026176598298	241.168936008174	211.012142461725
	175.767556472012	195.547320133122	185.342353172151	179.601348561497
	182.747079625619	207.692077301142	222.028626209166	185.186497037695
UXS1	145.635453468646	156.71199811686	190.45739385453	203.17525411575
	179.46936343225	190.389158930835	175.857952663383	154.808798024399
	154.124057382276	140.671406418004	174.866036336378	140.067809125008
UXT	965.031655021246	1026.61404215739	982.367000148189	826.771587455122
	1303.33810980467	1415.67109281133	1167.26555140613	1619.67820476414
	1196.34528225417	1284.19937294949	1942.08859727404	1307.19490564658
VAC14	143.628147237159	150.885460975199	141.123272165499	151.855884026072
	158.514079887374	136.104027032045	139.733149319736	137.52653395793
	158.25554353787	150.775805918537	162.254062646631	147.592770523507
VAMP1	215.057917795456	216.836094088131	298.301504581296	254.668502187945
	153.485731788293	143.204058393718	148.541832125061	161.651643789597
	186.813888805838	170.490099282436	173.850390626782	165.67554738735
VAMP2	856.039380523678	826.08372791138	497.269957926657	912.483177705931
	429.457884032977	456.817057099146	213.194154171149	251.833571288967
	204.161375686761	250.84781675544	631.653707589221	244.925472495705
VAMP3	1255.62991601665	1307.19490564658	1328.38230265655	1368.91287156398
	1029.09818399518	1332.82617944131	1118.28423222707	979.761537450366
	961.355625338687	1528.49457104932	936.221322010828	1299.4782626583
VAMP4	244.73233791067	225.480366837274	220.136131941508	206.825575257029
	208.914498369991	195.645181575647	230.424145472916	215.272800347166
	185.950131245699	338.406266073063	299.463563393179	265.332196877456
VAMP5	1278.30505902957	1317.1258783404	1318.3633082502	1252.28642463619
	696.131296166255	726.000622725287	831.08287594363	1036.40082234884
	1127.89414462606	735.449040059761	479.469659712246	524.640879446426
VAMP7	432.969886744613	420.248838397618	477.489368828457	309.658122422202
	717.886050056576	813.772804994191	490.022369664024	583.192225756596
	643.660739343159	654.108318810728	452.732079010502	511.113083958771
VAMP8	509.512410867348	789.752781067888	460.24741151155	554.115756730498
	3896.49785254733	2962.11407134162	5213.40342339233	2608.95227456417
	3140.51157972795	2063.42824094932	3536.14527317085	3046.47354587949
VANGL1	121.294366964074	122.68719599986	113.163651806803	
	111.286141277084	129.567701626404	121.387799881297	126.462522391125

	126.720031203392	124.873289279767	154.947359473187	151.535177950367
	121.360822445187			
VANGL2	258.830885826237	246.748589597262	250.911817769829	
	255.493109705211	375.407747753058	248.965394617795	186.6902304653
	266.563990988678	338.585771590234	221.297127685676	422.434778100827
	413.084646927035			
VAPA	178.636555178682	201.320381706496	207.692077301142	206.35895739543
	134.703474191011	184.989027770708	188.708596785144	165.39758732
	165.565284723155	171.221972336784	204.942500423413	164.373697447004
VAPB	285.798047501616	276.414209660023	209.398724613377	288.68376542946
	203.335012796883	181.85552254233	178.628885995439	145.698637908482
	139.246945739764	153.610428214886	200.506615977654	158.658110539162
VARS	215.802713097166	252.056131165397	219.729169245025	300.047728281275
	595.882696498804	350.926679856514	323.04019262387	284.940858938629
	270.92671642109	263.448958595597	306.111172289632	293.080122239022
VARS2	296.603054615145	379.670492165938	284.438411011954	512.184962338131
	682.730262408017	343.946831770916	534.276129011237	336.279209908669
	313.099028594073	227.587590278412	313.967636827811	328.730722366546
VASH1	264.158648784101	293.080122239022	259.575461599189	412.863887464545
	260.370285504512	168.861884032201	180.528296177577	185.938983266802
	208.237011955037	187.494677180331	195.513703253634	156.756159786366
VASH2	225.31216514083	198.285073991956	203.913123559942	185.165469121763
	223.975677959345	530.819778703194	176.497706091676	197.489903263216
	288.631429069336	148.18197556044	181.771654391653	304.292209676095
VASN	1427.70292953827	1290.39741199701	512.895335481876	1061.29067124163
	848.620986404914	246.288681426405	218.2454853526	345.494740481759
	591.437752991512	469.794672718173	191.284275676256	239.277801396834
VASP	263.509066170434	327.89660021611	238.430350258686	461.722481634933
	360.285027176918	201.383739902873	244.054469051058	177.508603290389
	190.939726271153	206.275885047321	309.658122422202	237.113813706224
VAT1	1969.67552562117	2192.17997650999	1825.10168716051	2388.03256067711
	901.197085099854	708.779490017407	496.697565640162	1317.1258783404
	869.937761943249	758.517101659762	580.164288826741	403.208138816247
VAT1L	205.908052642222	196.839016616283	145.126091016414	182.624130582754
	148.57301274812	185.493554506958	158.06129717954	180.3779211444
	177.96452209396	142.802965008073	155.011931456736	161.543072816738
VAV1	185.801540278924	154.533544838819	159.643566663742	158.384505840662
	170.692146255416	146.838547724148	140.383646018409	138.207553349985
	175.805472275887	137.540275229889	155.468848105615	149.219602109121
VAV2	280.913748398876	260.314440448486	222.526610842047	236.745054217055
	274.891033696257	229.729195963667	187.280334341504	194.655710454472
	209.840035045167	220.772387104223	391.400480065	264.685862877779
VAV3	151.939710544553	198.815448428294	145.987228759402	140.077307351596
	387.617166711971	519.27448770158	497.53605530806	519.564563632951
	496.03509813734	339.843776738468	817.529344685717	158.751241730465
VAX1	128.351235762192	147.553953240464	135.987450822209	141.083966525597
	127.325087202483	140.493975416335	119.578240680666	137.438984175012
	129.861693025157	131.593705080542	142.598106777707	127.539091409962
VAX2	153.761061653202	134.629996026323	136.418105816557	153.600132368924
	188.490807652188	173.675115244522	150.394483608039	157.960172706254
	146.996442729408	157.36568754472	143.756242843438	148.149216812602
VBP1	509.292779821787	586.366632966978	702.981741565482	533.54045706916
	1102.38234645327	1158.057104827	926.670867201327	1010.05884008623
	786.62709337246	907.306121257236	738.37559871635	1107.99131702522

VCAM1	551.92688162618	569.236322997211	183.214922844221	251.588748783592
	195.033792280119	266.19823384117	172.084184539157	273.864293250688
	459.171226689178	265.028512407839	210.117033165026	289.859695541999
VCAN	1331.18605673705	1194.42925868786	600.264940641426	1466.08446530283
	259.316557834724	294.410833087913	206.548878646452	535.20662670885
	595.270107963842	1832.35076992253	258.868119227979	357.063270015318
VCL	5479.24427823207	5558.51089816921	5240.40795364202	6368.23123771343
	697.299604049748	1250.58586679251	1107.99131702522	821.020339593525
	762.182213353032	822.545007054668	1033.48252432603	1129.76078220457
VCP	621.825622897512	727.425595270342	741.255013151687	846.425467119342
	993.34112647221	736.332743195416	621.946994961864	597.952909577121
	722.974310297586	1140.40904196731	737.42784787426	629.707646271678
VCPIP1	296.830999357172	319.417555901733	301.908667220208	
	289.859695541999	229.046153362151	362.306819797508	284.798325549665
	262.061371466369	275.888299685521	243.807038920733	218.209523110843
	266.964673763497			
VCX	117.611606270124	181.453575300661	144.510062568989	137.725329029129
	229.200570583629	502.499539192864	246.049729366987	186.747375844319
	121.480455781173	131.470883854661	254.188830191845	219.940167815376
VCX-C	137.012646671173	163.714231827866	145.958718601763	139.898996725236
	219.537335167901	474.14051635531	228.968779778407	181.479652131104
	137.144001915831	127.982696242304	252.432175363972	235.350819745387
VCX2	133.391421497441	134.227796103219	143.193305421206	137.669753723768
	143.683545371898	142.191569406599	134.615519721195	133.420267697961
	138.936872956065	139.010652831798	138.698178321535	142.974541687789
VCX3A	139.299062352035	165.851677392967	152.295451313545	142.93332947113
	185.591700082272	267.372241661758	183.633719048831	169.619338456208
	136.818557078622	151.214631373344	191.348260799746	183.42877315644
VCX3B	124.215466523555	132.992071643179	116.321559000405	128.766289767459
	122.501785735146	130.680629893396	142.284050423299	125.247402280272
	134.970609100459	128.51523581959	131.176413983785	122.501785735146
VCY	130.394687030464	142.493119780028	128.949103967865	120.767950825369
	136.724298878331	155.53992663898	131.77099316122	138.363553671822
	132.332128706656	149.725422365342	141.021723049782	131.362128083159
VCY1B	107.156457065853	105.62620788923	117.104945989023	109.067239220744
	113.274668934773	116.155949676272	109.536381305315	109.552501987529
	110.670057121283	115.672307128514	133.74051512341	117.442158626871
VDAC1	1557.00226259883	1549.30900090605	1502.3444541735	1475.41920838384
	3387.5366256957	2328.65814406636	3290.27308365921	3566.89107958971
	3211.2719052157	4367.38154535901	3890.14358014877	3384.19521857242
VDAC2	143.47200560038	138.508015596135	137.00532429734	132.466796864599
	140.293431620804	127.597601325212	125.104229604098	128.229729571899
	116.449064666763	115.600308687778	135.049657594221	136.201103852785
VDAC3	3876.04966263281	3829.87905458534	4465.66734676111	4276.70912292877
	3890.14358014877	7446.59106452583	3200.61067185412	4404.79209330918
	2395.75453574049	3222.23985545506	2069.70335195314	3270.88476148156
VDR	148.835389500419	148.846121873401	154.201375471487	146.376149543438
	167.542332146706	156.88782735706	164.181915898563	163.697117248984
	176.86489466512	160.806678614325	144.346988809708	175.363223521128
VEGFA	171.155660467037	165.51742391186	156.803516898875	159.199045715212
	315.47473326786	362.376153348015	460.742037437298	319.283603277754
	270.787490294555	600.757699463777	375.189005729903	579.049608568926

VEGFB	1890.86868383409	1455.75693295732	2091.73580292332	1767.70023790753
	1068.63350031223	629.707646271678	918.162638134305	338.075238647592
	591.89966781883	1005.62130301653	646.933504790891	720.364080505785
VEGFC	231.819341041105	237.961826989344	257.132618311227	205.226635237992
	199.477350542491	172.370108210895	164.38282966938	237.825857080173
	189.114794029657	463.99922423125	161.115842628581	187.407526616724
VENTX	146.580787463084	140.794273204984	121.628827418997	132.283682066898
	125.422348389595	116.363556872071	132.14412512622	118.029258839619
	134.596391166462	119.370219299491	138.341918073941	118.021169080914
VENTXP1	140.856864690669	150.088034336851	143.461785113446	
	145.351662473858	150.851504454247	146.916683989962	145.729212592937
	146.522066289381	154.604363252526	153.545086287929	159.148717478277
	147.73141408795			
VENTXP7	138.205338749495	140.357427912361	147.160858915857	
	144.016137459279	145.810213943313	145.43470695949	145.414563914801
	147.87699690647	144.318556353673	136.973804637915	148.993620368781
	130.790872334222			
VEPH1	107.07609243233	99.7487411813724	114.412739085949	102.094370876743
	103.398929051742	109.599589420575	106.551076380988	111.032156655273
	115.332409360957	119.237802375552	110.033746435328	102.522925993233
VEZF1	3083.98169220838	3066.69261114251	3309.66193624859	3301.98381607571
	654.881990232975	1903.13326109546	1322.14570224119	1540.71556891815
	1649.46398639795	579.318912497928	1035.98574557331	2078.76377557352
VEZT	541.764013317002	546.841563406813	493.622989939072	699.800360892516
	300.314088267108	371.819911874273	418.889972660958	309.155070674445
	325.493177980483	459.652708187549	408.201232787978	507.040326298457
VEZF	157.187894260746	124.042153387391	147.362120584524	142.95001632948
	157.035739033122	204.347931209047	157.273309095198	160.035282578603
	135.532820436394	163.714231827866	167.586897846525	161.189717452004
VGLL1	174.840923772532	225.565045396166	188.924084292126	203.652936507291
	1008.43888926584	505.404271675438	741.433093896472	1048.26872286983
	724.103864917969	210.199788806189	509.988617641229	376.962937292973
VGLL2	153.524100996368	142.088243118644	142.785631812039	145.085091507228
	138.838795320713	139.934460900409	140.987694585232	148.493435517221
	147.849116400978	143.544671705984	154.212927357622	133.223310036542
VGLL3	278.192669077191	220.258804437828	238.375823012603	163.686535888943
	156.646803208934	247.454326301069	207.368252249039	167.941671074236
	264.158648784101	124.186557690235	223.531323159808	179.389797867379
VGLL4	1161.39230511792	1605.2454230722	1008.875250028	1432.93880448974
	1596.33832632698	680.94167651697	1141.13648305827	1625.55754007235
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	114.28381541078	115.582048644075	105.348008821162	112.321396616213
	109.728809191027	111.161283080299	122.850678471084	115.316430915446
VIL1	105.771723307783	114.927420605185	103.520748827831	105.816457443844
	109.274221164316	115.066084565112	120.177385114315	111.161283080299
	112.999642731096	102.851152421943	108.751654061536	105.467761348787
VIL2	2965.38280248519	3909.47437917608	3371.24667467952	2660.39990175415
	14037.2575989329	4938.42484385053	8261.82420896892	5874.57722671552
	5115.14161559446	5122.60899285635	9852.51412359574	4359.98094976179

VILL	148.431101051574	142.678267012725	144.935571704834	125.593595066736
	159.624341769644	126.460390022632	117.279162323013	126.87100632595
	129.871985352583	117.331280455759	146.470444212748	156.160899295182
VIM	7406.86318549013	6810.50193989514	6720.10473881011	5811.97916044218
	791.840531191783	1332.11815966955	772.399017166118	1783.8031212092
	3315.21586182496	2718.440149645	1492.83354014907	959.897744425251
VIP	145.060085149395	187.65716654049	125.600500146679	123.849651946683
	127.368207232723	134.777979170126	129.313576009092	125.321968563987
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VIPR1	273.402804140541	294.697622870418	314.845965872164	247.111032124864
	457.548150688248	473.947538805454	686.679573646733	361.218491712891
	338.46332239699	266.756647182704	836.235700891687	487.597040819879
VIPR2	247.622351589081	271.397087928135	203.693188114912	215.532132200821
	133.408354896584	155.625320865565	170.807514224412	152.217243924816
	144.544001385895	134.493062923443	136.005756600948	138.223001481672
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VIT	291.883157643902	212.996456841785	251.039117540764	269.006221210929
	145.485453268383	148.168587884369	150.531753446398	144.877789873062
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VKORC1	2305.11856249143	2337.64145466514	1914.96285167893	
	2863.51286169094	1845.87311313269	1227.65550420162	1490.02976786379
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	1050.40488466179			
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VLDLR	245.042781391047	215.219246394594	294.17588071297	267.696284751923
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VMD2L3	134.907397302852	134.27783583528	129.272835188209	
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VMO1	153.911165277809	156.191659799142	128.372225487481	140.378255168229
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VN1R1	152.185397218918	151.742938010671	160.553214127047	168.183542846746
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	161.417207801991	149.744358230709	105.551878332786	155.475804754732
VN1R2	158.919340819357	159.241573314833	161.673818303367	172.552923333095
	168.521601064374	160.031506612501	164.736294372006	163.653662369257
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VN1R4	142.246864759311	141.40586900422	169.920799931309	123.108694517244
	121.23469201559	150.180037731272	159.683695366575	132.53122878527
	147.628367263728	163.991378703958	127.928195199945	138.239251358245
VN1R5	149.247514768446	154.475735552851	168.358323243918	191.112009690591
	179.241385747152	152.8810245209	154.507721014473	149.274901871663
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VNN1	133.564350740049	118.480344364831	133.292854943218	129.546119539687
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VNN2	121.556331561879	126.75720720361	115.30786313391	122.220327032799
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VNN3	140.583804906052	141.70844587896	150.102853150151	156.144934427609
	154.236652966294	152.429970809069	143.302354471175	145.274345879987
	148.670562837021	142.586051173329	133.888892883291	142.307520290692
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VPS11	227.587590278412	229.347135478142	247.845708587624	235.742017851879
	198.631354372924	158.058346079359	240.631264915238	208.214764518526
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VPS13A	232.231236745251	215.115324454215	245.317436234586	
	183.894417745549	140.726084514407	187.754968096521	165.698527470382
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	127.220812636148	132.622032754473	134.549628985766	133.75142055959
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	179.711363255355	133.346626315812	143.082880435412	139.130560988108
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	411.359106929985	366.705048374078	267.67093646012	315.306271141071
	284.748764120614	280.453895029319	297.970735665595	322.302219773624
VPS18	333.439929772897	356.921627358141	228.968779778407	462.553267274302
	482.857203798212	182.886100305943	225.005311517365	192.244413515864
	266.6817111962236	179.46936343225	314.708587131145	199.058972781223
VPS24	295.420691959792	262.349315496653	438.431160975498	343.946831770916
	260.224777636733	308.621688157016	313.099028594073	335.013713757031
	264.955939320296	485.136339836897	279.452819132461	459.171226689178
VPS25	213.602504580364	237.906142045719	229.933577323411	216.755681508811
	465.54817048856	486.524284354103	540.078145038497	774.774214696342
	550.434931878586	611.540759532294	374.56251861444	472.108893832845

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1208.9240215109 722.725186727796 1303.94157493616 1202.74869573717
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VPS29 1418.60088387728 1257.32413345748 2601.89405525276 941.065508539108
1421.04485772969 2886.92690692502 1958.96627327952 2193.376951552
2819.92361643968 2089.82894186824 1742.84803427086 2694.98079256089
VPS33A 140.074841537258 167.637638693195 224.251136332123
174.23955831109 219.519896184851 203.616580991715 229.85833221434
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2775.84742592713 1717.09434498876 656.009451448101 2837.36293710422
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	295.973370766318	523.073926509865	465.683139139622	627.526008812413
	372.94852645418	443.343806055858	431.974037914233	666.847934976479
VPS4A	345.686640885419	373.545629693667	306.896732729554	444.082440002333
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	257.602370597316	206.825575257029	296.497100375888	240.283918204202
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	1431.52979384867	1570.39362935859	1449.33679383001	1276.14915305515
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	397.064325578854	283.416246133873	368.879825610754	337.077153882632
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	131.232417654705	154.007244208673	147.983937675946	148.503282415207
	136.635413632094	165.523150623132	147.121049266117	138.925802905636
VPS54	179.122374556365	169.502103689662	196.117609477292	168.854819201403
	157.049773524382	210.942865876533	199.714647839712	201.041792159394
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VRK2	188.7348696188	167.206513789165	210.620764703468	161.700258550244
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VSIG4	159.354364289526	148.454344601562	166.910561772689	173.708509414674
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VSIG6	138.751781355083	149.286184588967	163.946569217706	151.392024228289
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	137.974323288786	135.907702243922	130.316282003711	141.724442944322
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WDR40A	425.13721408756	443.259619455624	368.134303229682	
	403.720036930931	692.945420109927	690.246312542011	616.188923504376

697.299604049748 779.922653392712 687.987647193563 641.12919339861
 476.495282784602
 WDR40B 155.851264092344 151.194282143046 168.483273292464
 157.546123603057 133.680691168661 146.264686158155 166.563411635721
 151.998942684339 148.25001336038 155.471795004237 146.580787463084
 155.924471321076
 WDR41 253.975577255772 255.435582426271 280.398987330256 260.52593414721
 224.439293045835 209.662262708551 277.726756691133 241.944581086483
 165.471587934831 429.096075419528 370.066087375401 296.497100375888
 WDR42A 1440.14449872047 1732.52466021178 1797.65684760558
 2273.12164779441 341.901565692251 996.240188311002 648.823677010146
 764.774225930479 619.223672253014 561.379619105609 1018.38836615952
 639.38881853171
 WDR42C 146.165632086981 120.799317509529 132.970515991525
 135.210887148305 138.093181144173 138.748941735079 161.603317039244
 132.164132609317 135.973752893694 137.165966740473 135.153588830407
 138.9878987332
 WDR43 209.417052464583 194.112534914308 177.478925091583 178.665552649698
 242.871915060884 410.42088953434 248.927790738447 282.137282466192
 246.748589597262 272.500572765647 189.2642795052 320.390351199433
 WDR44 259.643957326575 227.884445686928 243.225815954365 244.766289564524
 186.925138700818 197.205792984885 171.595724119779 188.941900997781
 185.856755885891 210.266075382636 196.096936985479 178.728925255163
 WDR45 179.687464522203 190.939726271153 175.073595611435 214.162670073541
 243.038392457584 235.795627549799 216.381643581705 206.098534554876
 200.065184172871 167.70368494182 197.02284475852 161.371477511362
 WDR45L 469.407481002198 412.582051585078 449.220056843562
 405.766055310869 427.151797273226 733.49038042129 677.023591987179
 1146.84239258543 1171.62361359992 600.264940641426 488.884511065882
 995.812184456562
 WDR46 336.786227017391 461.722481634933 322.576886792502 532.950400370668
 574.6506349984 396.04031733841 389.588346573823 391.782120640025
 365.864755316163 424.578659172414 327.324711245289 316.955298948771
 WDR47 185.046826969912 166.173429365582 208.321765801227 155.803946849495
 142.272117655292 232.083160165968 175.840639511966 176.347535860374
 168.882806817001 276.414209660023 168.702991603656 170.233084517898
 WDR48 408.444629429553 503.285430318683 639.688482258192 465.683139139622
 467.387427864242 566.813343200268 515.729905361375 342.769825986756
 631.653707589221 470.578335285993 492.534183006883 410.954095610904
 WDR49 156.978585870854 149.499238912407 147.114698384834 147.870549240703
 148.717545103261 147.81143020317 156.589829166493 150.003399000079
 145.314204192565 152.486212022518 134.10070984606 147.988883293205
 WDR5 192.022864170934 223.042575796603 177.955579729463 245.850813387241
 287.751093664085 184.204036882642 163.915489303508 175.400802387403
 195.019706886336 221.093229309411 199.991077347491 167.226663395855
 WDR51A 193.148369507405 243.589099648895 181.54273463264
 203.410932496844 1460.24985399013 677.9972761887 414.403321220432
 416.215253990273 689.821785472506 437.489929507567 256.964577037118
 465.41233536979
 WDR51B 263.888891822857 238.124340832815 271.989060206794
 225.820503820866 229.729195963667 373.803772983872 310.075815009404
 1214.77298621465 305.050933898691 308.38513924253 193.930569647995
 277.685488726472

WDR52	156.602240897907	157.070500065037	153.209409960324	157.381401974279
	148.186698759452	149.545278163222	160.786907816025	151.456702092528
	153.399787997793	144.750407738866	158.691830524781	151.791580876522
WDR53	173.250350363688	158.579717282881	153.000232171457	149.317146997809
	180.315825600347	175.400802387403	182.384190694142	208.816482659752
	205.428900832926	217.013533525724	185.027902485379	195.123919692348
WDR54	412.277592266475	529.529314022043	500.246996975	432.604462607037
	2847.42635118026	698.882871686866	1043.14253624883	1001.65849130836
	747.322544683874	1149.90248188644	411.285747588622	761.89271251455
WDR55	201.969002368045	194.831347257735	173.169905329013	211.555248754731
	173.879952136931	180.719868519867	284.236970342827	216.077955163344
	176.176392369178	374.46180489079	326.45984882427	283.014222473749
WDR57	255.273375146278	251.915179734134	312.080864996592	252.733973271584
	467.512355593598	817.342172321486	422.840163973614	648.823677010146
	478.847650837714	395.588345893987	397.064325578854	509.400965222318
WDR59	793.891277937782	749.515603904233	882.798927428142	759.058176862524
	447.909277144896	624.467319041884	709.778171909457	688.915534194306
	726.000622725287	601.800326895295	730.34994035645	810.769136227155
WDR5B	137.093170378295	133.984078167807	132.197346228417	135.164117176127
	141.70123350351	127.718341524417	150.476228905372	160.221974600577
	187.893420010787	120.15332480712	165.239214141562	138.033668840392
WDR6	1715.51071085304	1859.88000417483	1906.81344236287	2081.45603839306
	3111.50508060882	1208.25171673432	1692.01248523526	1309.01193284992
	1764.53168329081	1059.19317548869	1316.31088187364	1424.79466712859
WDR60	343.048904374136	342.878522959461	427.151797273226	302.362619893594
	233.953994677015	343.417041721907	387.477198908304	320.305852961452
	277.406445570925	241.944581086483	289.82072316082	370.301819403832
WDR61	502.499539192864	496.218605366298	546.399972543938	406.816482069141
	517.676093149981	1138.44837250274	1356.43255022363	614.514126276981
	1200.03423010236	974.544773560873	798.389385197471	1129.15018335354
WDR62	119.711070285785	143.047617455953	122.634741242406	121.197702744078
	212.037224737798	151.717558541683	132.64813248505	138.035272644139
	133.297361715205	121.893446546512	137.959775678716	126.893023101449
WDR63	132.338144393918	139.256416415149	126.298187538812	130.672586991186
	135.407536491819	147.688664545959	133.879079395215	138.296933822299
	129.945543636232	155.63328143658	149.416411285088	140.83570584033
WDR64	129.4807689399	157.277051544704	125.9713489569	145.799530970042
	146.070871543153	150.303703193967	139.54738445816	136.815411937352
	138.100014158367	154.101698334466	118.694037994926	123.847186739627
WDR65	142.06907380533	149.377153449536	152.6969498938	144.454141873387
	149.020824600931	155.3016514732	143.438417529799	137.058578192268
	136.80943340993	148.951632781748	158.041568121766	146.90847051471
WDR66	171.884800118791	160.676606760965	154.287059283977	151.776232847515
	142.274440538785	162.481362579872	166.958831664154	161.655336107432
	167.858490180471	1241.59946353857	124.766436060041	142.354731066206
WDR67	184.451469623426	198.954254778846	184.775001243453	217.227441947056
	175.960788330149	259.316557834724	200.652195873026	400.845137156678
	348.241471067257	199.209279169496	195.400963839097	211.555248754731
WDR68	242.787656836745	289.616527814137	264.201932544662	305.542978609337
	608.129959758538	766.176882605175	539.853394831917	623.409211766224
	739.085574858917	525.138476928759	441.958777965408	588.678767007017
WDR69	131.430921437192	117.623103460369	122.965328766807	128.05898686833
	121.739219824085	127.842177770276	115.795989631016	125.539199863559
	133.594446233378	126.217702283708	129.32466533596	125.050945917101

WDR7	252.514569129392	230.10433160008	265.028512407839	237.754067231793
	179.451637129672	183.152005135504	188.503673684625	189.567241599215
	207.138680369683	192.493439659184	190.427022049167	177.143397572907
WDR70	438.958573676953	468.569725051459	458.607367472574	527.707841428677
	393.264726588522	451.621888586656	467.187222441283	686.198351821711
	360.361719991381	408.811415529922	526.416479408056	394.414934831535
WDR72	115.582048644075	213.833894542292	112.156010486085	124.533543270311
	1475.41920838384	2537.90501983425	1512.28202818467	1261.61611961272
	1347.75629878765	1298.60552708737	3348.7622174821	2677.17579532816
WDR73	308.803322140241	305.615423200097	335.790909130243	354.067771806542
	174.214747421898	290.688850193983	336.380724981693	250.766180970907
	311.269750643358	200.22145130696	256.174286655796	329.263397240111
WDR74	583.697431061521	666.344430142655	533.784151495549	628.000860165888
	418.574045635945	615.88518704181	413.913442080187	419.763812610671
	413.555310697751	378.585058475083	515.327420453564	420.647394044431
WDR75	694.02978779693	787.615195903993	753.997560938003	733.49038042129
	510.061974830525	1212.55338792557	657.77730563722	799.423640530777
	684.428198622716	869.937761943249	935.423045210635	885.927972780392
WDR76	150.960096893517	157.87020867396	149.919344933814	151.613134875009
	168.437049123012	155.303903514061	147.164348704012	159.266921692363
	163.668476670167	158.000456937922	148.883263903527	163.643554173995
WDR77	208.666760987764	220.533113603343	239.003718699156	242.902900881585
	378.728516779744	273.806452412737	467.04976953755	377.024120035829
	409.743899750699	242.614881095485	376.276954313674	340.366016191232
WDR78	132.6175371563	134.658664100744	124.072512083237	126.75720720361
	138.331509117817	128.251087452744	130.249430984172	129.995417218564
	136.519697160267	126.446675008883	130.844272373448	131.820842728171
WDR79	163.165374495635	171.521579011287	157.912864169081	197.378801636702
	243.793465720264	219.394500571586	140.229267364503	192.113217321485
	157.907190910755	151.301484852387	192.130214856642	131.996032643928
WDR8	360.812953749077	336.338518973032	336.639473916174	371.06697207449
	644.301665020526	545.760623858473	446.601751145647	576.10291008626
	454.732029358748	429.992169596618	375.255445179952	539.853394831917
WDR81	255.945470052489	360.90109922539	265.992741398183	404.876478833713
	400.060972573122	240.75934760601	194.60309399944	258.868119227979
	213.046162847735	254.101184686036	276.925017614147	216.645552082667
WDR82	1233.27155759407	1084.10984365393	1156.19575610918	1412.56164938199
	632.031410234577	894.734451279225	857.55777793754	598.647226284738
	1252.28642463619	749.220616713093	771.059329972125	938.049312229961
WDR85	158.292581724934	152.064982697394	156.759600627542	135.87026484074
	176.138621462315	143.227410286571	137.790718305537	148.530422089937
	136.201103852785	146.753212022975	170.169402943662	149.335288055732
WDR86	148.297939240474	182.833961304079	153.474566767304	205.428900832926
	134.671840308041	127.696578575874	127.077668562103	136.541973790157
	142.081013617671	134.01566484034	155.104697146664	214.132445321197
WDR87	136.557466007228	141.905641114703	145.081468030567	147.543411823657
	153.38494705081	151.59613008133	155.715728894101	153.752502094283
	146.466967386428	148.247826830556	147.428180649939	158.297624312257
WDR88	133.050798832332	132.960708384399	122.312652834289	132.748478264583
	126.494665743087	128.893208935783	139.31967261371	127.644315207178
	133.269658133558	137.96452133771	139.889264227467	112.317996234709
WDR89	148.976157516273	139.180086017033	146.604519441812	152.479402912801
	146.402352419692	144.853868519575	150.300108097623	160.402220755071
	148.544887355857	151.362686497226	152.291176493005	139.711696905287

WDR90	166.272237117441	168.720694813918	181.193963616037	165.2045030333
	298.301504581296	212.073472189229	188.40383184521	245.900840732668
	215.81995779019	192.153420834889	218.559622620349	213.468420853218
WDR91	188.641397688261	188.291563792748	215.47323777134	191.040134068942
	201.441808401878	244.990374822652	290.502085667398	208.080089376299
	221.768507175814	377.353441970543	199.88618355278	238.482863150124
WDR92	256.127197303751	218.18756955522	288.631429069336	269.726397478364
	278.168897504985	260.999345837027	207.960802948119	280.656087497806
	242.538036654192	183.447807651728	223.373877165342	198.597176657619
WDR93	129.930888107958	133.737573120711	136.067657949844	129.360773522498
	137.376602654929	132.86711707789	138.113751487484	142.383723965616
	138.510722755317	146.227452269648	124.635917999969	144.96021415188
WDSOF1	273.75192868583	261.721726664029	240.07282016658	
	239.871536598083	455.930204471585	428.462270756201	318.690043546203
	442.027630433527	455.08515350006	275.39986964837	497.759125486158
	344.915370555826			
WDSUB1	261.639437655633	287.195290301363	337.822337721287	
	251.138401278632	285.980446338971	382.485769373364	297.419034136005
	262.756237406794	267.190228116903	310.465070184707	314.90123632547
	275.298642145005			
WDTC1	137.471563342956	155.438218501542	149.742140955184	183.583432296209
	152.503159091556	131.141668650877	138.731957926247	137.118488157416
	120.501697624977	143.632325018964	115.072622367144	130.00310962336
WDYHV1	260.489744360233	258.25658838015	303.051124835907	
	237.575788579215	283.527656956105	231.39684528494	241.383657414248
	247.971366020963	302.570932942847	211.786963444117	245.454945056317
	253.124449721731			
WEE1	602.141151173094	443.853458865556	474.917507160629	349.330629649093
	520.585319342817	443.125195744202	469.407481002198	502.170430910893
	459.30568829087	407.711669482083	610.915977337787	398.193129265416
WEE2	133.467092274663	122.247130087475	131.04482088126	136.452338158252
	127.7962242731	134.737901773547	132.083532534267	122.109009629395
	128.872496485403	127.310437599803	134.640783050966	132.865704994046
WFDC1	1828.66165670455	1287.3125466789	938.918431240228	1220.30347076968
	136.739754726714	229.130679600654	133.959208066964	230.620456579897
	204.999796322451	198.840533461525	145.952759497544	213.178648382852
WFDC10A	131.216673806987	148.26621607986	146.791505538166	
	147.617354114584	150.91730768674	141.606501859513	155.842195370853
	160.379168489216	145.01322767825	135.353539458856	114.234369421536
	138.156430188312			
WFDC10B	155.673532440475	162.769643886845	179.828494168009	
	184.157941055948	125.484453841158	122.501785735146	122.007909794484
	137.15571320152	129.987548571478	128.194171809998	129.077660633761
	128.300838927918			
WFDC11	151.81251450855	139.892371997205	139.013404849037	
	159.337816095012	144.81077501446	159.7197697044	152.769931978291
	143.217978435486	140.378255168229	131.986590029726	142.217762896203
	141.466287523861			
WFDC12	139.159510392614	135.848022588175	144.710613442383	
	141.308299074832	150.016550610991	129.741644654541	144.240470871638
	145.549126188292	140.44966014021	143.602039774312	132.285835971705
	137.445344116574			
WFDC13	136.823008283157	113.031636180748	121.320750074882	
	128.952986088886	142.21279866857	147.576533768761	149.070750686003

	139.2454524913	133.370488470007	148.727953739127	162.748836971539
	157.83460319212			
WFDC2	245.582279957584	242.72424280444	192.954269340616	395.521241316058
	340.193863653875	225.64288602828	203.149001616967	137.491366243256
	153.030069116717	142.64421300687	157.237147919803	175.840639511966
WFDC3	188.062732621031	173.70035122661	205.742386129597	189.799091507686
	146.476960694197	137.652358744527	143.629760301493	135.25123092324
	149.601145171769	133.699547652179	137.93067182632	138.098165515898
WFDC5	156.818197172306	146.450806121927	163.170983091116	161.636411303968
	156.05583229359	160.459100056689	167.782882015229	147.229463256281
	158.213784310645	528.275591281419	150.952264779196	161.968835903764
WFDC6	141.141047405344	152.08574341962	133.089616534434	125.661697165943
	156.030794481734	137.336914480226	137.499290547619	126.118745937997
	138.684070773064	146.875733210901	141.884995734267	139.166537591866
WFDC8	125.008209861774	129.669484303621	132.419898122309	126.277165320165
	137.536053775531	134.907397302852	130.651062724029	120.748910864064
	135.056517225198	123.410467384598	131.800533523123	123.081299769162
WFDC9	138.212860360467	145.239119337981	126.887989471803	123.809866652834
	116.252227301161	138.317443162096	125.400741907779	130.541449457342
	139.232893342069	136.225792549383	140.457727109762	131.226834630025
WFIKKN1	157.368974632451	127.963701335952	141.327299595068	
	129.902965506953	133.504078347324	144.606963457243	150.829439012542
	149.980924447339	138.265155903051	139.440415574681	120.594874820899
	137.056500339577			
WFIKKN2	108.760780994582	109.003365273337	103.772221923105	
	109.46255295836	106.629065516249	112.599970121166	99.9173294438729
	112.3786222545	115.090463537716	120.241528853563	113.620070198869
	105.284300851422			
WFS1	3164.55070502403	3062.22499714914	3315.21586182496	3793.02341602102
	1754.99663827472	595.409419899436	661.096668635469	622.561634660589
	1182.50261323518	291.020789939476	383.583234619781	648.823677010146
WHAMM	273.252023367028	224.424524191566	241.320049298228	242.410260751835
	177.812335593522	199.378179817518	307.083179338165	240.734451149197
	230.723142236623	220.896363324634	280.085692727562	225.664432111551
WHAMML1	139.974586762939	144.880785634179	141.299677389827	
	136.737964237109	138.458816023289	133.71610564207	134.302726684539
	138.384797779855	150.129367314696	130.143953880391	128.101371225192
	130.142263689536			
WHDC1L1	151.650777127117	145.466538006138	136.850940500212	
	156.723502568908	135.412051450659	155.326276840738	142.168934978042
	132.628358688595	136.560048419149	127.123123583856	139.664055668127
	127.661634554996			
WHDC1L2	163.380402251758	151.045803695015	157.940873610797	
	140.916876460413	147.140771901106	141.59474425685	143.447768653042
	144.252481420079	144.511488474344	143.239666389592	145.534520042669
	143.639894909386			
WHSC1	135.203507726561	135.722321387765	138.704839659727	140.995418231627
	140.423711213355	137.982667022604	129.819820730239	139.941724115063
	134.319316977485	136.466367853188	134.678445085174	140.743917481548
WHSC1L1	159.696443182844	167.164675439456	167.018380617832	
	150.188128594079	237.575788579215	208.194788326109	165.274189050141
	158.562631157512	148.155692596378	158.645402461996	172.364618542922
	166.355086055404			

WHSC2	213.046162847735	211.118308738617	214.785381549181	300.401370666633
	388.710465457313	207.831299397177	234.399431238026	203.652936507291
	211.419445018736	184.518666956721	248.791254839869	198.257497903131
WIBG	259.374392296079	290.754210152709	206.585387130993	304.751330890753
	469.930860750773	333.868818855397	427.151797273226	427.084392965651
	350.166837086936	319.768792196774	539.27766384282	339.490955270138
WIF1	171.80440912191	174.187510325385	154.136467767927	168.071171406779
	143.739231124536	157.590017103385	179.61374889626	147.51773051441
	152.743680985848	179.648479201164	151.015243921984	146.577524520274
WIPF1	170.198508633417	157.55776414649	178.751706380632	151.780459290205
	130.477824552202	140.356164189622	125.5449326311	161.189717452004
	169.607072855818	150.761696482387	139.010652831798	142.126620107418
WIPF2	145.594378536072	136.815411937352	137.378528742953	134.963301368391
	139.532508621268	163.470025318612	148.012353232918	139.644701550661
	153.173746756225	132.568354349687	155.319717753912	154.623548525522
WIPF3	124.395047385025	136.893392154262	122.615852682436	147.471494294543
	132.985645792864	139.703304553486	133.895547281411	139.609751976657
	128.751758311249	148.538400348149	125.542301916791	147.407093814154
WIPI1	258.036064876416	237.88097138936	233.757965816721	244.132645171301
	218.369954323686	269.770777921703	224.824362819477	262.629961694573
	296.375305136807	269.981476129439	225.730739636442	249.489170536758
WIPI2	184.102171963542	228.058870735016	179.358460170348	261.541138637729
	248.887522059485	197.582402276079	179.376968970326	172.934156790775
	183.406510146725	161.094103878416	194.941454173896	186.813888805838
WISP1	127.800634041606	140.003353399494	132.973551954067	133.473140653666
	144.883597913037	138.114344944865	125.107483348755	129.049273337631
	140.222860564605	218.314136992677	131.282765307273	125.367386907897
WISP2	543.389747823877	395.261210769232	409.592855687405	327.164773632634
	182.886100305943	141.344034069373	166.868688936939	150.570540340126
	153.231965895778	171.935132459373	138.764042772731	147.532747354296
WISP3	138.640919060725	128.597272557033	137.995313285692	136.489566741917
	129.374418059091	137.063689600869	135.108420614547	129.301839663122
	190.165771406362	401.584032365337	136.614620534169	455.21285026588
WIT-1	128.856640014006	143.675696734051	124.269446398587	130.062015525637
	122.921245774755	122.408016372747	124.913645688325	119.373287155621
	132.54355871539	105.741092375243	125.143281492089	117.570749340011
WIT1	147.343712869579	142.335251387423	133.137299889323	151.702809524494
	141.075421936212	137.118488157416	141.943910304145	142.584504912189
	141.693224578298	143.965049742993	119.387459594521	131.865164933746
WIZ	163.442257036536	149.929454280702	154.232310911696	176.317805247749
	167.658560306884	137.660051943656	132.769455423385	136.77260462185
	147.651620353593	127.935614145702	141.678529125136	142.995274641765
WNK1	742.128229715198	670.856008549143	721.11578916385	792.247301083075
	322.778260588465	327.951753740503	409.206158277764	463.880793292701
	504.436992949763	786.160002434066	467.944850290806	393.115606440229
WNK2	171.216275057884	162.502895638492	155.427282703527	164.413893089607
	212.739915809291	130.12638520846	115.445219455559	124.802639338573
	118.45291712775	119.403831071089	124.05019986924	128.523703756493
WNK3	146.495845282846	147.971492964243	143.870849001074	143.565597315289
	155.728609337723	147.502116289881	147.289061374598	175.495965414493
	145.604066669916	148.607885635446	143.965049742993	152.832573288735
WNK4	107.365390754133	114.412739085949	111.409447323674	113.687931899298
	124.800221241981	101.915858150866	107.993707827557	128.478724185042
	129.27634490676	117.847744476387	118.201092260839	111.457176315964

WNT1	116.038950886552	119.334967856721	125.367386907897	117.824694297846
	112.949643549398	118.95971064289	120.235652849894	113.989682635964
	124.568534983277	127.758381206968	128.957236136715	122.69021100699
WNT10A	144.262612328341	163.413365060063	126.037968297611	
	120.724926760252	113.018985316061	124.378096177801	251.869781014029
	134.469653093466	138.132390735567	219.8511043213	382.806570442504
	467.512355593598			
WNT10B	138.657241641263	121.699702849509	111.632811186988	
	126.972399784537	115.030084788083	120.122719226116	115.327402810793
	125.28279436853	109.37466528113	118.184571821176	114.638254225216
	121.709375771276			
WNT11	150.163801964104	141.010588053284	122.607404698857	134.817665153925
	143.618454531431	124.825103464238	117.028963434266	117.937856116492
	129.507297276862	137.190593489949	140.738977175997	128.835216648178
WNT16	145.704057360697	142.034369454643	134.498439965049	131.839890565869
	129.483116877682	136.452338158252	137.950955473086	134.601565799073
	129.041254463346	134.331420680628	148.000706956532	134.335309757663
WNT2	144.324313048777	150.701579893607	131.730758460802	142.804411455413
	148.278828579424	135.144908040903	145.409722106953	149.801573181126
	134.052720862102	186.185055364718	149.805955402639	155.496190048502
WNT2B	240.734451149197	209.913460781088	177.652022895288	177.742616962629
	148.578688042147	161.354014292373	148.274122690409	151.289464845626
	159.065612005442	158.735283017367	145.058110060639	148.388093331273
WNT3	136.879615833565	127.282374513433	130.700175060255	127.56862018147
	153.697775290962	162.488819873513	206.753993163216	162.55521875551
	130.092881020271	126.033673708286	166.936975782665	149.609501725707
WNT3A	111.975027473284	117.834484996559	118.21084414402	118.866073031304
	120.887938517877	125.982423431253	113.274668934773	118.342067845126
	120.131839791515	124.752198904184	121.094060100325	113.23302126254
WNT4	180.518621542868	131.086904662241	117.199217938531	140.44966014021
	133.88072491369	156.572774198042	173.577723566555	142.246864759311
	151.461857714097	251.414717011661	128.99859423584	158.58863949084
WNT5A	180.667897257797	194.403848868583	164.562302265155	126.931328660501
	147.955701866515	332.296938254329	227.64196401771	276.138650967632
	251.61451602376	434.325609889068	303.005912224195	372.894376776771
WNT5B	219.597808863947	377.024120035829	202.278323489515	711.166793546075
	120.157438564977	122.389557272277	127.758381206968	126.398884382537
	127.822440239962	122.679628839976	146.927825526831	124.907788504503
WNT6	157.016659994185	153.477432230141	143.521510363933	153.481752643937
	142.133238886052	142.693337885596	150.014842228372	146.800324349321
	134.243435358729	146.013430937168	152.244018820259	149.756512110538
WNT7A	137.466291815166	156.745051321143	146.565265415908	148.951632781748
	147.253919952267	139.654648891206	151.650777127117	150.737888487925
	135.455283504668	171.869472272081	142.002145315543	136.341358916638
WNT7B	155.15575204653	158.344330353326	159.636846021745	153.011923016494
	343.307036883726	355.990908506973	283.556453980797	231.47915227815
	212.016247864691	182.009471368798	335.013713757031	481.630922092112
WNT8A	125.666013736767	120.433080754232	126.98588570464	143.065258692424
	131.679566454851	121.468398802591	128.692917766138	120.322292418128
	127.670274911298	122.167669805597	149.357617406983	132.393669306489
WNT8B	116.291146910202	112.428707152237	112.57049236673	109.536381305315
	117.193620642373	107.622342073167	117.943511615792	109.113476990309
	113.256481034259	115.450352881048	131.144774362059	107.156457065853

WNT9A	130.880795616911	125.027095330593	123.084040312047	127.921209207879
	122.063996556575	121.406758670435	115.25307661968	126.775180133301
	120.590654346066	123.296382913131	133.173541338355	127.427014611349
WNT9B	123.129785564258	110.242638217587	120.691810909148	137.555253894825
	129.391376518208	126.919867899174	124.422548323449	125.486324819682
	124.443643568527	134.880138942756	142.368601917778	126.992697289075
WRB	327.207408852474	300.602422224047	345.732364434125	244.101521795539
	218.773153183388	394.101052511043	418.163219634152	368.948300262634
	507.137104111742	277.101000223971	341.64890727921	343.048904374136
WRN	181.003812824014	178.847858667374	186.231346659144	174.09267813338
	191.665827345888	204.489837323989	237.396466740419	198.356420768703
	192.532222258033	235.183590602209	225.927425596831	235.822266856967
WRNIP1	374.033009122079	340.42197893246	355.990908506973	
	352.418229893699	573.074116810032	413.502150181875	618.437282203498
	492.930906036297	453.593585032712	564.749082802433	365.727197088581
	526.625936680738			
WSB1	2033.67956299225	1468.50184641042	1361.54107116915	1551.90775589919
	276.714748212739	741.689442253375	825.034504959272	1865.44709751822
	732.877169346979	1318.3633082502	905.233241047678	772.776364492813
WSB2	600.430996779799	630.473042320288	488.57622466019	587.026042400878
	1113.59310757948	758.863418917419	1131.22418479945	622.348802511009
	1378.40627876546	713.832153334389	1273.6393529108	734.139557942719
WSCD1	150.204636832734	153.943227610765	136.895650862562	146.402352419692
	124.086902599543	135.852591930882	143.327730271099	142.919910421524
	128.221548195595	137.20253329376	157.572446865749	142.401333414583
WSCD2	125.710199961297	142.185345091219	125.3200677275	137.344198938623
	161.402322405903	122.312652834289	122.84603217721	133.970510683179
	125.034243098087	118.492287441192	168.687845035401	126.365861978893
WT1	132.354503055131	137.118488157416	137.675597243706	126.777633512781
	126.948090173876	133.731500722599	127.520134825082	122.329290563769
	131.930814868433	126.987002259013	143.188958538221	130.588481497083
WTAP	243.038392457584	256.022057262325	260.955030428944	199.681103910705
	284.675990197899	280.494088228226	344.856199123543	303.608918161742
	264.983729290122	291.167223094542	276.867974638972	346.173614351499
WTIP	236.508498739509	228.212753830905	220.458449424062	245.317436234586
	429.595453454621	181.889592946523	257.292125083248	180.392337212428
	222.646371492347	219.537335167901	170.335930486215	202.314814594735
WWC1	124.411213807179	137.680019787902	128.620852653765	107.76497424356
	367.898258897888	264.805236346895	379.788696204016	378.38874489611
	571.838717184447	445.905756082569	601.997464467917	471.816954259146
WWC2	136.998259410887	140.10798818623	139.611455791957	142.527422462824
	122.223184326586	125.166940410459	127.084267631845	117.12833256636
	132.94603323912	132.873213182775	144.321757243275	123.725998173975
WWC3	386.85874184746	330.850098426464	383.10686624119	325.082620845425
	248.403014089812	165.092451754065	274.934292929666	193.37618381669
	219.564603776774	289.257002046658	219.318938396989	221.411372022459
WWOX	158.814407805803	181.823450464129	145.478233255862	176.289693941489
	160.970946091146	142.284050423299	145.654559623732	139.658932672049
	138.967080709927	138.512938877774	148.245974323625	146.446922196868
WWP1	660.535644289024	677.503643398297	724.607317443904	696.650617523899
	336.067655676466	388.887050777137	419.272193677273	621.825622897512
	1149.90248188644	601.640387246951	489.403061697031	392.746574862867

WWP2	165.314290446922	159.957371011316	162.155834067128	145.944809232038
	170.866433766203	160.592404712197	151.299425811105	154.491373296392
	167.468390483999	168.310680227156	167.893596681867	201.987081022654
WWTR1	163.778790431064	135.3969732106	180.01471631205	135.404474671036
	134.271916545532	117.870230005125	116.89487516867	127.271423859953
	136.263658288289	132.409582164007	134.673861365626	108.730058525654
XAB2	717.419388886784	923.383014892221	693.339946866196	1169.43742964112
	1352.14737073174	1931.16906839143	652.826023701545	981.781076110568
	675.978379566859	412.415549375221	587.54075434249	386.305638633172
XAF1	925.205399154409	425.969575503375	292.802762636861	392.06522028189
	194.029961195972	212.691702227442	386.817736004263	314.014654357569
	534.608644989102	350.741303038926	564.200165295159	375.038561820137
XAGE-4	144.794806650252	144.370811043456	142.334338599752	
	162.861320877227	142.110469428644	154.912576362196	141.604832186257
	141.822974252935	147.971492964243	153.664503112778	137.336914480226
	146.675159409376			
XAGE1	143.945039636839	140.191264837331	141.895211025017	132.587392944892
	142.047828639169	139.522018789485	134.686251400642	135.37120759813
	136.459509901229	131.523538461751	132.05513812578	132.031693838834
XAGE1A	140.759006929593	142.324077852852	133.387065801837	
	129.730685860688	136.807118099948	141.5068665919	142.846100831941
	146.590495255969	131.696834332724	140.018786803502	143.942810095867
	135.829273398594			
XAGE1B	161.708130705995	141.770977101211	153.336395746742	
	142.869595099569	150.517832812714	149.791777262424	152.783534456473
	152.518729390047	149.327794670124	138.755173333171	149.827791077797
	151.766607453172			
XAGE1C	128.473834314632	125.124011798043	124.28313315915	
	146.64835267642	136.855445270531	135.381131982323	142.537484065487
	153.121693371757	135.835518477299	137.068717031383	142.728311130348
	130.680629893396			
XAGE1D	124.757229519631	155.511086289504	141.839647226623	
	154.281674854552	137.42213762011	179.369845168822	144.587253120884
	144.850211439338	140.881084272745	137.77601089414	148.967232828819
	141.357668647617			
XAGE1E	157.58659226599	134.036236880951	149.326216726716	
	169.864628707043	171.254015232189	144.32655838488	150.657800679032
	127.532665057083	157.619627711954	120.992440100307	169.072574423443
	160.970946091146			
XAGE2	141.686945908315	143.626022875491	148.038291195414	152.577131215027
	133.15144076432	145.819198235878	150.42705284743	139.681211082196
	137.549175595441	152.789338329505	129.431497372577	137.172030225913
XAGE2B	113.799997627317	115.954828435072	127.458099438957	
	118.342067845126	117.436119533535	129.095469955392	118.553226856337
	121.036054511761	120.611442477736	126.439948611449	151.411708598688
	116.994216357989			
XAGE3	118.783904603368	115.582048644075	113.61408868553	119.263824982583
	113.492900106468	115.855948612544	119.103219740679	114.768639931659
	116.969799327195	121.419301042072	135.474070994652	118.567548265638
XAGE5	110.707755436868	114.234369421536	112.476111928742	115.750690887988
	107.156457065853	108.247365868673	109.038182799871	108.461141538047
	107.949834974369	109.599589420575	120.641590368902	110.148555045276

XBP1	860.688314783077	737.650963292668	579.318912497928	497.916883763059
	1936.88813111969	3188.90202907403	3566.89107958971	3976.40140405628
	5437.78386044638	1230.00744483191	2051.45788386541	1965.13870083236
XCL1	124.217337143269	135.973752893694	139.094167748687	130.491742824575
	135.419628087842	136.08040874432	142.436624546651	129.003317344469
	145.892876412762	136.84840505336	126.782805974059	134.413962468434
XCL2	161.299920355406	156.073428882485	162.592306630033	159.320692108734
	173.507835230243	155.582036890436	164.571974509529	155.475804754732
	156.801189586018	171.545695383454	152.09245741643	143.394704760983
XCR1	133.725177339262	132.328948598599	129.594440309419	119.663182347566
	127.820096020782	129.16337177104	126.539877052899	127.030113960477
	126.253319664664	128.413213851142	138.113751487484	127.107223387937
XDH	126.33556674738	127.773292289242	134.42983422342	127.03153185998
	127.377356715337	170.878962027347	167.893596681867	159.085639414089
	144.522461545204	195.057830521304	251.833571288967	151.936543085044
XG	132.186120302011	129.529372508883	133.541333581593	118.572988141773
	115.975794003391	120.672291867109	122.109009629395	115.085961282227
	122.262664384198	187.852455291319	116.961391747202	111.188410935711
XGPY2	144.715167331434	151.819220292189	152.842777535666	140.071879210324
	143.987296454585	146.624631389743	143.368327095618	144.615156175885
	150.82596027483	155.993849743656	143.247977741752	154.861507590906
XIAP	217.89028736436	204.031081842809	203.544294328395	166.036553680319
	206.937770272939	254.668502187945	226.531255313921	238.068308163643
	257.24481414803	241.293046687076	357.191675549592	282.392419584508
XIRP1	116.625518828978	112.776764215618	108.751654061536	111.989153105684
	110.942138645171	111.632811186988	104.442909315944	109.128394735532
	107.40922161073	104.321352818065	109.817705421158	120.235652849894
XIRP2	117.218616752346	113.862790983655	115.463150857002	122.204249636472
	118.825948323992	110.419222236698	119.13963074637	114.062099086818
	130.418739793498	110.465934808915	134.877046981678	116.176068923513
XIST	204.990512488181	352.50679573356	166.46473789699	253.754869975548
	176.198555355383	260.443814523694	207.651142295123	168.180063344887
	187.686326872667	211.660148497276	195.269099451599	192.804447792672
XK	144.665869508406	151.645636946799	177.011776399483	150.880818951088
	186.496160803789	138.091795130567	106.491867793742	184.542232315662
	141.145419751161	116.558752619296	122.917915232153	104.934718065476
XKR3	130.646956516128	120.050548624975	161.094103878416	138.476953078729
	132.510116371195	123.111192189217	134.696571019896	142.707913210557
	120.767950825369	119.387459594521	108.266328505986	126.479964493857
XKR4	251.224369831275	202.943987922418	206.113290588613	230.201464318433
	151.045803695015	127.213640193364	135.223957492606	149.267019532847
	141.045379969014	131.277646716635	152.459041674768	140.756898474665
XKR5	134.696571019896	130.836079676477	142.52234368939	154.146962684738
	127.831950458406	121.201267751612	151.360575274272	129.404017329613
	134.270043564053	129.413729619216	119.275061991187	139.111604268732
XKR6	143.533725135227	157.627490896581	152.413389525982	160.690442125281
	189.799091507686	150.863099494798	182.608712782878	146.54504551183
	168.156002330441	148.299945894738	170.417054311946	171.552010365305
XKR7	125.962178569021	120.511896155396	107.531907287727	115.550587451456
	121.818632020666	105.179281694336	112.977469350139	115.559551514777
	116.082361389405	112.428707152237	122.742891063864	111.716607815635
XKR8	163.77183097588	173.640326140494	165.262738484387	178.130223302924
	211.483693299981	152.617507769717	173.088291472857	185.100455193182
	158.63432604978	163.758054869675	168.04198447141	163.352317556107

XKR9	142.255657518926	132.17294083844	117.79844873842	126.743579586052
	142.26998944788	142.163834995141	121.572462089942	132.125545886181
	135.883877544991	127.044367488881	150.065275447769	122.786030993629
XKRX	148.732027660387	129.871985352583	158.617209794418	138.354300118735
	182.938824846376	154.542190113901	155.172667450053	158.943005736645
	193.245087824217	158.473244125101	156.534634574244	143.934585983797
XKRY	115.646023142125	106.393497890486	105.900294919664	123.977467396003
	111.985567835684	126.121516564343	105.221735747452	119.26921157552
	115.923424095859	114.533677697026	118.393203921859	126.3539479619
XKRY2	121.30744400137	125.364821583438	130.528198937596	129.861693025157
	136.434045183143	130.142263689536	128.936628289974	129.493805009651
	126.84966022925	113.963798749897	131.988591391373	118.9803314875
XLKD1	225.583966894864	166.346572488391	161.050438117555	211.692743811486
	112.867662941811	135.840528665314	117.696262292883	110.138220982557
	127.440987506769	106.088807114602	115.247223837316	110.266032635568
XPA	240.792557915987	240.511797905018	366.857139377277	304.590636814607
	179.663258610881	172.319604146201	211.505504834207	201.731223995887
	188.291563792748	241.845941562418	239.363511706064	205.011514211101
XPC	799.423640530777	806.591035100794	861.119262963015	627.803400871547
	693.339946866196	482.965800108538	936.560290736127	1064.85152398919
	807.3257139219	550.566402986082	1030.97051104597	704.448123154868
XPNPEP1	754.607039665508	822.88742008931	748.940715378564	
	867.601542930533	590.646248924596	801.52891824571	1238.11700377838
	915.579581760396	1179.42590997099	986.972987865318	1599.12034906314
	1448.64875525408			
XPNPEP2	242.188218870393	238.724909152512	243.861834405092	
	271.113617350982	151.823845684041	125.587057468028	133.917283965036
	142.198234546084	144.423509403938	143.967197319361	158.125437004665
	137.491366243256			
XPNPEP3	15561.8923517816	14499.7866852901	16818.1954169657	
	17496.0674176329	4238.41681589316	17141.9934540963	8558.70496234991
	12406.7143043992	12109.3049135906	8163.29201165065	9349.76443528011
	9636.32818474581			
XPO1	1242.61637859159	947.425912541091	895.114975754684	845.150147618462
	902.089561157715	1544.45026075974	907.610179738644	1346.53215685106
	918.742625270041	1006.24899131914	1144.92109214621	1028.39666838369
XPO4	399.248044997427	388.192984832638	433.82566459288	408.263886786123
	261.251965523684	563.140382824149	349.485727214325	389.260166168847
	412.129826478453	434.943371634824	557.026028810367	650.679096367632
XPO5	270.973600107882	282.797367565702	234.925852373127	298.165097953983
	332.24505665756	425.826693178023	287.703569453502	300.247304779062
	325.751369001105	363.706789137022	295.571900619972	324.346723939622
XPO6	426.769986378276	435.796737132969	377.353441970543	558.440840319738
	625.932910814208	741.255013151687	551.92688162618	506.165100641525
	627.526008812413	565.843200661721	474.917507160629	534.505132658177
XPO7	246.288681426405	206.303338709554	262.691387377392	197.699100346967
	316.524115715585	343.270642449751	429.812058546782	293.12968694683
	359.363523948825	473.60579090007	272.885527139137	466.392151902286
XPOT	163.22059466037	174.587558727209	167.149578610266	162.039394839415
	185.544411160039	195.481680273686	227.614623963331	328.486476842582
	204.35801867216	322.302219773624	162.828844182372	207.384408045502
XPR1	332.798130757632	345.209128382239	329.604568691377	284.104619768635
	664.025683218037	841.944755849006	513.816017871024	1105.10063745656
	1158.057104827	510.285766295993	900.039744829725	685.848203651889

XRCC1	220.330477277988	264.685862877779	285.131244588624	350.308420518351
	417.191960489528	293.448046685909	321.750495072759	346.303862540751
	362.742120043509	293.281098275134	245.110761598207	233.635876830148
XRCC2	3447.19587767281	3164.55070502403	3575.60827968852	2553.92770795014
	385.050282185255	1957.48508632607	990.55038742453	1512.28202818467
	1240.4863200811	1046.13353853089	1497.32522786098	1059.80292026589
XRCC3	194.702974020747	181.467708718758	176.603760647035	201.850932289186
	516.177596584059	178.209994522672	196.519125510368	255.12306184224
	222.394280571312	194.002075848131	243.65518489122	223.703371558666
XRCC4	116.718099363329	110.408301129053	108.604763499678	127.206177583275
	132.490323093932	116.225440873023	109.760525674874	129.914077170794
	124.415058391979	122.568743478314	124.69169730955	123.117923525539
XRCC5	488.746614111382	492.780880796036	842.87865208079	405.032674307193
	275.642882589307	905.751410113646	745.482863218223	578.650614747598
	763.533962249076	626.582864105324	1108.61301774472	1136.76110352875
XRCC6	1166.86593572716	1227.36706427754	1249.89496565284	1261.61611961272
	1373.67062432073	2005.76678571689	1073.40463823132	1490.02976786379
	1557.00226259883	1232.66885974069	1350.87073284396	1364.1224589383
XRCC6BP1	250.577945492981	263.74335003375	328.14373061894	
	277.561376169965	312.339824919124	331.018914429561	261.117845544884
	536.253405705975	256.394563537658	307.982260548106	240.94056877904
	329.48021621087			
XRN1	390.021666378804	417.528353577952	355.443758121675	395.049127927637
	242.096692715029	354.981966077502	382.186095123659	310.8725368426
	361.687156919012	290.638110977807	380.664528809678	348.457808063307
XRN2	228.349507726225	210.882890077598	317.493387040816	226.595006724068
	218.106150021482	484.658140651032	296.051639873628	273.806452412737
	304.844121431627	258.036064876416	255.198862778405	317.457588721567
XRRA1	184.577511730401	173.176900454904	192.493439659184	186.257814752354
	177.72965427263	158.213784310645	172.836730741407	160.143443392509
	168.358323243918	166.819234137224	157.922718487881	167.100039749329
XYLB	159.835577644136	166.277960843095	130.022574966461	158.911404625381
	203.913123559942	159.349719495214	227.926444925478	183.023316857537
	175.158180187883	152.713528089347	162.072695554798	164.295628750438
XYLT1	200.867515935703	156.301214161102	165.885072907195	138.032265227728
	140.334331111538	135.588132669957	137.974323288786	180.290887733427
	170.12010526854	152.346098251128	147.688664545959	144.224287382131
XYLT2	917.188039935737	1167.26555140613	941.936830901588	1120.87534972745
	958.005138077899	707.404709303506	1346.53215685106	1083.26599217847
	756.246712133116	712.433345978749	591.763423878737	702.049571167356
YAF2	241.706645643141	242.471259857978	240.253944604431	275.755038921952
	148.060086496148	215.897620927751	185.46843333826	194.831347257735
	169.271175460047	151.327544435847	168.982086590306	180.569583206488
YAP1	2189.53914329263	1980.4589291261	1957.48508632607	1808.26383618901
	662.781145703653	368.0573385048	647.955521647635	447.297590650141
	526.182262872235	1034.68475089075	735.449040059761	653.749043828462
YARS	1280.57297272231	1226.10881264804	761.726829618132	1597.53010317504
	1413.37062765856	1047.2693539616	1277.0921553877	873.010676463707
	1402.14708471728	1632.84261181074	888.371107987343	755.42757464615
YARS2	292.839392578318	262.061371466369	344.379733302418	229.881164774875
	390.194764817385	546.611519125021	676.293399523316	611.088604425595
	538.484170364629	604.737834405874	463.187551361986	588.458314503034

YBX1	4327.90939653054	4043.28299602858	4641.8793590085	4819.85672511343
	3396.40593844715	4628.04544865227	2941.69058596077	3304.82581034038
	3258.07532987071	4262.23145131525	2423.84327263111	3566.89107958971
YBX2	166.289763097913	205.852731236069	152.733409144267	289.956528242564
	134.35958389775	134.93455083142	147.001408450583	176.167129202773
	123.872097378045	143.377902352319	123.202829470888	137.132095345234
YDD19	143.667207351415	154.236652966294	141.88072888667	137.7724100594
	140.92066676704	152.459041674768	157.058912028958	158.58863949084
	144.986655090517	137.209801101689	147.982280671798	153.56082876276
YDJC	152.122141650397	160.176567985923	152.829437376835	138.444427173667
	562.711562649704	307.945884504629	302.021033686056	392.06522028189
	216.680795762761	248.16594076495	358.152044880733	305.720812071583
YEATS2	495.438672949441	408.60092780174	453.875259610173	
	408.811415529922	308.621688157016	335.858047332641	468.060528109338
	472.030150842569	441.684169663552	683.861021234927	411.603820288919
	426.464641742092			
YEATS4	207.692077301142	204.113356572343	275.794847140407	
	178.920528149177	362.581768268116	3447.19587767281	469.930860750773
	1832.35076992253	509.01330998156	415.642099109855	204.564770370164
	416.933146258428			
YES1	530.969825236996	569.866002248352	464.812091712746	519.940347384877
	1239.13016938378	1041.58583268313	734.71562355687	982.367000148189
	629.381791489871	965.031655021246	688.915534194306	787.425941491281
YIF1A	587.026042400878	674.101599637653	633.401624753368	847.564628337955
	2491.33490046283	894.46029531926	1047.2693539616	659.673052713372
	765.333633142088	1007.7803477458	905.751410113646	746.523071806534
YIF1B	266.918302307596	279.070493043898	241.782750858091	314.751799003704
	1130.32966481315	549.692164962653	374.337030706199	319.128582107184
	371.819911874273	280.848426993226	280.558463661137	263.606930507829
YIPF1	494.604716660887	491.290438575428	509.14726076246	499.683188662742
	515.158921349383	724.777166238211	777.651238374269	732.630306104841
	588.076436392983	652.826023701545	746.777330152729	617.67819271245
YIPF2	164.962201718762	167.430767074847	144.358535632993	156.654450436728
	245.675725760577	156.290018816692	237.266455875982	189.389457481768
	186.167877791105	205.57572471694	190.904614772409	155.27707167384
YIPF3	1118.86225415732	1186.23169583595	1078.41947691758	1385.28044421961
	2026.85580212422	1627.02882286283	2277.60839052397	1403.09138858507
	1615.60472592991	1027.11849332495	1936.88813111969	1482.15461429206
YIPF4	261.814227719605	254.63506290698	287.83303360511	231.981501596284
	482.677635089583	317.163768837813	425.471195039676	345.209128382239
	368.948300262634	530.122419830951	324.615093103582	325.082620845425
YIPF5	215.019239034819	244.596233138747	203.071186284148	223.747350951099
	164.332073056902	165.885072907195	233.572055978465	171.561940747015
	184.241640200823	250.928804390353	254.909076658804	178.394895649664
YIPF6	957.54149804446	889.26314145856	956.76879975749	626.857289492802
	620.899414581162	1456.76683429755	1006.69598892631	683.365770196967
	1324.56751399862	743.510369438587	873.408431189194	901.197085099854
YIPF7	169.713585775118	160.839277476397	196.226732738526	163.996649606636
	134.394503574535	146.014790698087	162.007384919302	153.741061283101
	145.63870792125	155.820194280153	149.902420337518	149.65417821994
YJEFN3	150.907594445048	161.002880798225	138.944595164363	
	137.127587786536	121.531401500498	130.396593013401	125.134516902118
	229.076507182239	142.336164180947	135.43939472868	160.180961887686
	132.5130209643			

YKT6	133.360017767635	134.113464449375	118.258886189283	129.513590304528
	127.855167644203	140.714455864886	121.003207135942	129.828896822571
	114.711310011993	136.645091356305	153.255318944823	136.692495869097
YLPM1	117.781804727205	128.927103442679	137.961504178836	126.841836614341
	149.487167787687	132.300508985399	133.62358240645	140.223599881961
	136.84840505336	142.954747193455	139.265915951162	133.523706103471
YME1L1	309.229066204308	267.372241661758	464.128022170285	
	277.817786943873	342.935878735854	385.888395433066	382.562403424855
	343.666488527549	482.466736153026	496.03509813734	426.249411635589
	505.404271675438			
YOD1	187.352655464866	184.569063297206	186.268881719287	155.507030276749
	154.197254746757	254.9636051363	232.830038701628	206.042395282286
	205.362816362477	218.917357155289	205.821101661022	290.688850193983
YPEL1	173.147311624838	165.4474699807	210.529782898493	182.439945229388
	160.664407431261	188.335102005839	163.102043862117	165.160977512574
	202.927700504034	135.056517225198	221.253717494488	141.158593399952
YPEL2	293.873921048642	237.266455875982	404.172535442156	249.925640256322
	173.520662003159	222.028626209166	204.078331021637	209.44506543433
	232.151020756625	260.591336959281	194.445463745418	200.603836348642
YPEL3	539.720389702148	691.632061537999	682.315322994357	667.421612441201
	1204.32784721885	707.173691257322	1147.96742431386	496.823662262772
	740.527607312565	540.946852709312	1118.86225415732	430.94199035855
YPEL4	156.01406297447	149.505323932806	127.299853592344	128.289680999565
	126.115828232308	119.192893408873	121.06219555903	123.108694517244
	129.322481607056	145.068061371609	141.125248464806	132.338144393918
YPEL5	1845.87311313269	1871.91894530722	2007.0121037284	1687.85201395597
	721.966539760341	1554.16120123599	1185.70008959602	1151.30600388403
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