

Supplementary Material

Modulation of LIN28B/Let-7 signaling by propranolol contributes to infantile hemangioma involution

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Supplementary Table S I

Identifier	Patient age	Sex	IH location	Treatment	Stage of IH	Preparation
25	1.5 months	Female	Subglottic	None	Proliferating; obstructive	Paraffin embedded
84	4 months	Male	L cheek	Propranolol	propranolol	Paraffin embedded
24	5 months	Female	Retroauricular	None	Proliferating; ulcerated	Paraffin embedded
24	5 months	Female	Retroauricular	None	Ulcerating	Fresh
66	5 months	Male	Upper back	Propranolol	Proliferating; ulcerated	Paraffin embedded
82	6 months	Female	trunk (left side)	None	Proliferating	Paraffin embedded
62	7 months	Female	Scalp	Propranolol	Proliferating; ulcerated	Paraffin embedded
63	9 months	Female	Scalp	None	Proliferating; bleeding	Paraffin embedded
26	15 months	Female	Forehead	None	Involuting	Fresh
21b	18 months	Female	Forehead	None	Stable/involuting	Fresh
19	18 months	Female	Chin	None	Stable	Fresh
27	24 months	Female	Anterior neck	None	Involuting	Paraffin embedded
27	24 months	Female	Anterior neck	None	Involuting	Fresh
54	24 months	Female	Right shoulder	None	Stable/involuting	Fresh
36	24 months	Female	Cheek	None	Involuting	Paraffin embedded
55	30 months	Female	Chest wall	None	Involuting	Fresh
65	36 months	Female	Cheek	Propranolol	Pockets of proliferation	Paraffin embedded
28	36 months	Female	Chin	None	Ulcerating/proliferating	Fresh
80	36 months	Male	RUE	None	Involuted	Paraffin embedded
23	36 months	Female	cheek	None	Involuted	Paraffin embedded
18b	84 months	Female	Trunk (left side)	None	Involuting	Paraffin embedded

	A	B	C	D	E	F	G
1	SUPPLEMENTARY TABLE SII						
2	TABLE LEGEND						
3							
4	Sheet "miRNAs IH-NS": small miRNA sequencing data of IH compared to NS.						
5							
6	Sheet "miRNAs HUVEC-NS": small miRNA sequencing data of HUVECs compared to NS.						
7							
8	Sheet "miRNAs HemSC-NS": small miRNA sequencing data of HemSCs compared to NS.						
9							
10	Sheet "miRNAs iPSC-NS": small miRNA sequencing data of iPSCs compared to NS.						
11							
12							
13	Sheet "cistrons IH-NS": small miRNA sequencing data showing miRNA cistrons differentially expressed in IH compared to NS.						
14							
15	Sheet "cistrons HUVEC-NS": small miRNA sequencing data showing miRNA cistrons differentially expressed in HUVECs compared to NS.						
16							
17	Sheet "cistrons HemSC-NS": small miRNA sequencing data showing miRNA cistrons differentially expressed in HemSCs compared to NS.						
18							
19	Sheet "cistrons iPSC-NS": small miRNA sequencing data showing miRNA cistrons differentially expressed in iPSCs compared to NS.						

	A	B	C	D	E	F
1		Relative frequency (%)				
2	miRNA	IH	NS	Fold change	P Value	FDR
3	let-7a-2STAR(1)	0.000015	0.000220	-8.0	3.47E-04	1.58E-03
4	let-7a(3)	2.478397	5.578450	-2.3	1.61E-03	6.10E-03
5	let-7c(1)	0.300762	1.074958	-3.6	1.87E-02	4.48E-02
6	let-7cSTAR(1)	0.000535	0.001228	-2.3	2.47E-02	5.60E-02
7	let-7dSTAR(1)	0.009897	0.017735	-1.8	4.83E-02	9.69E-02
8	let-7f-1STAR(1)	0.001221	0.002216	-1.8	6.91E-02	1.29E-01
9	let-7f-2STAR(1)	0.000554	0.001577	-2.7	1.12E-02	3.04E-02
10	let-7f(2)	3.297656	6.594766	-2.0	3.98E-02	8.22E-02
11	let-7g(1)	0.530580	1.548657	-2.9	1.68E-02	4.09E-02
12	let-7gSTAR(1)	0.000713	0.001791	-2.5	5.00E-02	9.99E-02
13	let-7i(1)	0.805527	1.893000	-2.3	1.41E-02	3.57E-02
14	let-7iSTAR(1)	0.005936	0.015868	-2.6	1.01E-02	2.78E-02
15	miR-1(2)	0.180602	0.407418	-2.3	1.28E-01	2.16E-01
16	miR-100(1)	0.269461	1.357119	-5.0	3.45E-04	1.58E-03
17	miR-101-1STAR	0.006411	0.016112	-2.5	6.04E-03	1.83E-02
18	miR-101-2STAR	0.000092	0.000439	-5.0	3.98E-02	8.22E-02
19	miR-101(2)	0.504669	1.097522	-2.2	7.18E-03	2.09E-02
20	miR-103(2)	1.043406	1.739549	-1.7	1.38E-01	2.29E-01
21	miR-105(2)	0.000000	0.000053	-13.4	1.19E-03	4.65E-03
22	miR-106aSTAR	0.000211	0.000539	-2.1	7.42E-02	1.37E-01
23	miR-106bSTAR	0.010952	0.017509	-1.6	1.40E-01	2.32E-01
24	miR-107(1)	0.055739	0.107598	-1.9	2.07E-02	4.86E-02
25	miR-10bSTAR(1)	0.010470	0.016769	-1.6	1.41E-01	2.32E-01
26	miR-1180(1)	0.000461	0.002373	-4.9	9.41E-06	7.22E-05
27	miR-1185-1-3p	0.000511	0.001464	-2.8	1.06E-01	1.85E-01
28	miR-1185-5p(2)	0.000784	0.009892	-12.0	3.35E-06	2.80E-05
29	miR-1197(1)	0.000051	0.000141	-2.0	1.10E-01	1.91E-01
30	miR-122(1)	0.000012	0.000138	-9.2	1.45E-03	5.59E-03

	A	B	C	D	E	F
31	miR-1226(1)	0.000130	0.000397	-2.6	3.49E-02	7.42E-02
32	miR-124(3)	0.000080	0.000618	-6.9	1.05E-04	5.80E-04
33	miR-1245-5p(1)	0.000017	0.000067	-3.5	6.82E-02	1.27E-01
34	miR-1247(1)	0.000803	0.004746	-5.7	1.01E-03	4.02E-03
35	miR-1249(1)	0.000113	0.000595	-4.9	3.75E-02	7.88E-02
36	miR-1252(1)	0.000002	0.000028	-3.6	8.88E-02	1.61E-01
37	miR-125a(1)	0.143980	0.274388	-1.9	2.37E-02	5.47E-02
38	miR-125b-1STA	0.003989	0.017534	-4.4	3.74E-05	2.43E-04
39	miR-125b-2STA	0.012877	0.048855	-3.8	2.68E-05	1.76E-04
40	miR-125b(2)	0.238119	1.442813	-6.1	2.23E-08	3.64E-07
41	miR-1264(1)	0.000000	0.000031	-4.8	1.23E-01	2.10E-01
42	miR-1269(1)	0.000940	0.000023	57.6	1.18E-03	4.63E-03
43	miR-127(1)	0.071894	0.312605	-4.3	1.04E-02	2.85E-02
44	miR-1271(1)	0.002092	0.006362	-3.0	1.54E-03	5.89E-03
45	miR-1277-3p(1)	0.000113	0.003394	-26.4	1.75E-04	9.13E-04
46	miR-1277-5p(1)	0.000369	0.001050	-2.7	1.19E-01	2.02E-01
47	miR-128(2)	0.009958	0.023197	-2.3	7.04E-03	2.06E-02
48	miR-1283-1-3p	0.000399	0.000000	82.7	3.18E-06	2.70E-05
49	miR-1283-2-3p	0.018071	0.000145	161.5	1.45E-06	1.42E-05
50	miR-1283-5p(2)	0.108289	0.000257	556.9	5.19E-09	1.05E-07
51	miR-1284-3p(1)	0.000000	0.000016	-4.7	1.26E-01	2.13E-01
52	miR-1286(1)	0.000000	0.000032	-5.4	2.60E-02	5.79E-02
53	miR-1287(1)	0.000708	0.001770	-2.4	1.77E-02	4.28E-02
54	miR-1287STAR	0.000175	0.000628	-3.2	9.47E-02	1.69E-01
55	miR-129-1-3p(1)	0.000070	0.000325	-4.8	7.89E-03	2.25E-02
56	miR-129-2-3p(1)	0.000365	0.001497	-4.1	2.61E-02	5.79E-02
57	miR-129-5p(2)	0.000149	0.000526	-5.5	5.56E-04	2.40E-03
58	miR-1294STAR	0.000110	0.000028	3.2	9.07E-02	1.63E-01
59	miR-1296(1)	0.000755	0.001828	-2.3	2.09E-02	4.90E-02
60	miR-1298(1)	0.000000	0.000023	-6.6	2.32E-02	5.37E-02

	A	B	C	D	E	F
61	miR-1298STAR	0.000000	0.000023	-6.1	2.87E-02	6.28E-02
62	miR-1301(1)	0.001174	0.002428	-2.0	4.03E-02	8.30E-02
63	miR-1303(1)	0.000011	0.000172	-8.2	1.15E-03	4.54E-03
64	miR-1303STAR	0.000017	0.000099	-3.9	1.25E-01	2.13E-01
65	miR-1304STAR	0.000051	0.000241	-4.0	7.46E-04	3.06E-03
66	miR-1305(1)	0.000008	0.000062	-4.3	1.13E-02	3.05E-02
67	miR-1307-3p(1)	0.005600	0.013433	-2.4	2.98E-02	6.47E-02
68	miR-1307-5p(1)	0.003598	0.048654	-13.3	9.41E-09	1.70E-07
69	miR-130a(1)	0.220053	0.700227	-3.2	2.15E-04	1.08E-03
70	miR-130b(1)	0.018617	0.036762	-2.0	2.20E-02	5.13E-02
71	miR-130bSTAR	0.001138	0.002519	-2.2	9.11E-03	2.54E-02
72	miR-1323(1)	0.037381	0.000170	228.9	1.11E-06	1.13E-05
73	miR-1323STAR	0.000924	0.000007	67.5	1.23E-04	6.67E-04
74	miR-133aSTAR	0.001088	0.005114	-4.4	3.49E-02	7.42E-02
75	miR-134(1)	0.008427	0.022972	-2.7	3.30E-03	1.11E-02
76	miR-134STAR(1)	0.000030	0.000291	-6.3	2.20E-03	7.94E-03
77	miR-135a-2STA	0.000000	0.000028	-7.5	1.74E-02	4.22E-02
78	miR-135a(2)	0.000035	0.000312	-7.2	4.36E-05	2.73E-04
79	miR-135b(1)	0.018389	0.004144	-84.0	5.08E-10	1.88E-08
80	miR-135bSTAR	0.000000	0.000182	-38.1	5.16E-04	2.24E-03
81	miR-136-5p(1)	0.011675	0.064905	-5.5	7.57E-04	3.09E-03
82	miR-137STAR(1)	0.000008	0.000000	3.3	7.88E-02	1.45E-01
83	miR-138-1STAR	0.000000	0.000135	-26.7	1.49E-04	7.99E-04
84	miR-138(2)	0.000249	0.006309	-25.7	8.31E-11	4.71E-09
85	miR-139(1)	0.010116	0.029298	-2.9	8.29E-03	2.36E-02
86	miR-139STAR(1)	0.002832	0.005757	-2.0	1.50E-01	2.43E-01
87	miR-140(1)	0.688355	0.330303	2.1	3.59E-02	7.60E-02
88	miR-141(1)	0.020189	2.157410	-108.2	1.18E-07	1.62E-06
89	miR-141STAR(1)	0.000000	0.003210	-642.4	5.56E-07	6.21E-06
90	miR-142-3p(1)	0.040189	0.143444	-3.6	2.20E-04	1.10E-03

	A	B	C	D	E	F
91	miR-142-5p(1)	0.330123	0.130366	2.5	5.09E-02	1.01E-01
92	miR-146a(1)	0.070981	0.260436	-3.7	4.58E-03	1.45E-02
93	miR-146aSTAR	0.000324	0.001073	-3.0	3.90E-02	8.08E-02
94	miR-146b(1)	0.096902	0.230151	-2.4	9.57E-03	2.66E-02
95	miR-146bSTAR	0.000266	0.000851	-3.0	1.48E-01	2.41E-01
96	miR-147(1)	0.000219	0.001994	-8.9	4.66E-03	1.46E-02
97	miR-147STAR(1)	0.000010	0.000069	-3.5	4.29E-02	8.77E-02
98	miR-148a(1)	0.698025	6.204235	-8.9	5.75E-09	1.11E-07
99	miR-148aSTAR	0.002595	0.012806	-5.0	2.78E-06	2.44E-05
100	miR-148b(1)	0.246108	0.583764	-2.4	2.99E-03	1.02E-02
101	miR-149(1)	0.000986	0.043176	-42.5	9.28E-09	1.70E-07
102	miR-150STAR(1)	0.000117	0.000427	-3.1	3.82E-02	7.96E-02
103	miR-151-5p(1)	0.121662	0.193463	-1.6	8.22E-02	1.51E-01
104	miR-152(1)	0.274937	0.706678	-2.6	2.34E-03	8.43E-03
105	miR-152STAR(1)	0.000068	0.000680	-8.4	1.77E-04	9.20E-04
106	miR-153-2STAR	0.000069	0.000302	-4.3	4.05E-02	8.31E-02
107	miR-1537(1)	0.000023	0.000157	-4.0	2.99E-02	6.48E-02
108	miR-154-3p(1)	0.000977	0.004008	-3.9	2.70E-04	1.28E-03
109	miR-154-5p(1)	0.000653	0.007471	-10.5	3.99E-05	2.53E-04
110	miR-155STAR(1)	0.000009	0.000033	-3.5	7.83E-02	1.44E-01
111	miR-15b(1)	0.041065	0.083943	-2.0	3.33E-02	7.17E-02
112	miR-16(2)	0.972978	0.485645	2.0	1.39E-01	2.30E-01
113	miR-17(1)	0.187841	0.426612	-2.3	3.18E-03	1.09E-02
114	miR-17STAR(1)	0.027161	0.089634	-3.3	7.10E-05	4.19E-04
115	miR-181a-2STA	0.005537	0.018239	-3.3	1.26E-02	3.30E-02
116	miR-181b-2STA	0.000080	0.000341	-4.0	8.82E-03	2.47E-02
117	miR-182(1)	0.007929	0.086833	-10.9	1.20E-10	6.01E-09
118	miR-182STAR(1)	0.000000	0.000158	-30.5	7.55E-05	4.40E-04
119	miR-183(1)	0.003723	0.031322	-8.5	1.61E-07	2.11E-06
120	miR-183STAR(1)	0.000012	0.000348	-13.8	5.05E-06	4.05E-05

	A	B	C	D	E	F
121	miR-184(1)	0.000035	0.000294	-6.6	7.29E-03	2.11E-02
122	miR-185(1)	0.049971	0.106179	-2.1	1.32E-02	3.39E-02
123	miR-186(1)	0.179507	0.435912	-2.4	4.52E-03	1.43E-02
124	miR-186STAR(1	0.000328	0.001252	-3.7	2.76E-03	9.77E-03
125	miR-187(1)	0.000134	0.002871	-34.8	1.52E-08	2.53E-07
126	miR-187STAR(1	0.000000	0.000020	-6.0	8.96E-02	1.62E-01
127	miR-188(1)	0.002003	0.006137	-3.0	4.15E-03	1.33E-02
128	miR-18a(1)	0.015966	0.043217	-2.7	1.22E-02	3.23E-02
129	miR-18aSTAR(1	0.000332	0.001185	-3.1	1.23E-03	4.77E-03
130	miR-190a(1)	0.008079	0.038271	-4.7	3.95E-05	2.52E-04
131	miR-190aSTAR	0.000333	0.001285	-3.6	1.85E-02	4.43E-02
132	miR-190b(1)	0.000277	0.001023	-3.5	5.08E-03	1.58E-02
133	miR-1911(1)	0.000000	0.000009	-3.0	1.15E-01	1.98E-01
134	miR-192(1)	0.014213	0.033213	-2.3	6.53E-03	1.95E-02
135	miR-192STAR(1	0.000041	0.000145	-3.4	6.68E-02	1.25E-01
136	miR-193b(1)	0.017019	0.191975	-11.2	1.90E-09	4.36E-08
137	miR-193bSTAR	0.001615	0.006890	-4.2	2.47E-05	1.66E-04
138	miR-194-2STAR	0.000014	0.000115	-4.4	2.59E-02	5.79E-02
139	miR-194(2)	0.007966	0.019662	-2.5	8.69E-03	2.45E-02
140	miR-195(1)	1.103442	0.280148	3.9	3.44E-02	7.35E-02
141	miR-196a-2STA	0.000374	0.010971	-28.6	1.71E-05	1.22E-04
142	miR-196a(2)	0.003928	0.128007	-32.6	2.17E-04	1.08E-03
143	miR-196b(1)	0.004936	0.084282	-17.3	8.46E-04	3.41E-03
144	miR-196bSTAR	0.000000	0.000848	-169.3	3.93E-07	4.46E-06
145	miR-199a-3p(3	1.430094	4.394329	-3.1	8.15E-04	3.30E-03
146	miR-199a-5p(2	0.243550	0.718565	-2.9	4.65E-02	9.46E-02
147	miR-199b-5p(1	0.090178	0.555891	-6.2	6.93E-05	4.16E-04
148	miR-19a(1)	0.037117	0.134484	-3.6	8.05E-04	3.27E-03
149	miR-19aSTAR(1	0.000025	0.000091	-3.0	5.15E-02	1.02E-01
150	miR-19b-1STAR	0.001119	0.003227	-2.9	1.70E-03	6.43E-03

	A	B	C	D	E	F
151	miR-19b(2)	0.324970	1.201096	-3.7	3.77E-05	2.43E-04
152	miR-200a(1)	0.001866	0.305010	-191.6	2.88E-09	6.44E-08
153	miR-200aSTAR	0.000008	0.002689	-137.2	2.17E-07	2.71E-06
154	miR-200b(1)	0.003060	0.425736	-147.2	9.11E-11	4.84E-09
155	miR-200bSTAR	0.000040	0.004212	-191.2	2.84E-07	3.35E-06
156	miR-200c(1)	0.004538	0.587965	-135.7	1.56E-09	3.89E-08
157	miR-200cSTAR	0.000000	0.001640	-328.6	1.78E-07	2.29E-06
158	miR-203(1)	0.013650	6.199758	-461.0	1.69E-10	7.56E-09
159	miR-203STAR(1	0.000137	0.084670	-1474.1	4.18E-09	8.88E-08
160	miR-205(1)	0.006298	2.430434	-402.3	5.79E-10	1.97E-08
161	miR-205STAR(1	0.000000	0.005473	-1093.1	3.01E-06	2.59E-05
162	miR-206(1)	0.011595	0.000164	76.0	2.58E-04	1.25E-03
163	miR-208b(1)	0.004941	0.000067	74.8	2.57E-03	9.12E-03
164	miR-20a(1)	0.047176	0.141330	-3.0	2.86E-03	1.00E-02
165	miR-20aSTAR(1	0.002872	0.007158	-2.4	1.85E-02	4.43E-02
166	miR-20bSTAR(1	0.000082	0.000283	-3.0	5.92E-03	1.80E-02
167	miR-210(1)	0.016008	0.525164	-32.9	1.83E-10	7.75E-09
168	miR-210STAR(1	0.000018	0.001696	-54.3	7.20E-07	7.65E-06
169	miR-211(1)	0.000109	0.034175	-348.6	3.40E-12	4.76E-10
170	miR-2110(1)	0.001484	0.004034	-2.7	2.86E-03	1.00E-02
171	miR-2110STAR	0.000054	0.000354	-5.9	2.61E-02	5.79E-02
172	miR-2114(1)	0.000027	0.000151	-4.1	5.03E-02	1.00E-01
173	miR-211STAR(1	0.000000	0.000284	-56.6	5.85E-05	3.58E-04
174	miR-212-3p(1)	0.002601	0.000972	2.7	1.14E-02	3.05E-02
175	miR-212-5p(1)	0.001252	0.000483	2.6	1.51E-02	3.79E-02
176	miR-214-5p(1)	0.005329	0.016689	-3.1	3.67E-04	1.66E-03
177	miR-215(1)	0.002310	0.000782	3.1	1.06E-01	1.85E-01
178	miR-216a(1)	0.000683	0.000261	2.9	3.49E-02	7.42E-02
179	miR-218-2STAR	0.000029	0.000188	-4.7	7.26E-03	2.11E-02
180	miR-218(2)	0.030998	0.112763	-3.6	7.81E-05	4.48E-04

	A	B	C	D	E	F
181	miR-219-1-3p(1)	0.000043	0.000170	-3.4	2.49E-02	5.62E-02
182	miR-219-5p(2)	0.000164	0.001526	-8.9	1.37E-02	3.50E-02
183	miR-221(1)	0.089570	1.118186	-12.5	4.73E-11	3.09E-09
184	miR-221STAR(1)	0.004049	0.015258	-3.7	2.17E-04	1.08E-03
185	miR-222(1)	0.065040	0.460232	-7.1	1.40E-10	6.61E-09
186	miR-222STAR(1)	0.000478	0.001989	-3.8	3.63E-02	7.63E-02
187	miR-223STAR(1)	0.001387	0.000518	2.7	2.70E-02	5.97E-02
188	miR-224(1)	0.008300	0.087400	-10.5	3.86E-08	5.97E-07
189	miR-224STAR(1)	0.000933	0.005748	-5.9	9.82E-03	2.72E-02
190	miR-2277-3p(1)	0.000010	0.000055	-3.3	1.47E-01	2.40E-01
191	miR-23a(1)	0.574681	1.752847	-3.0	7.02E-04	2.94E-03
192	miR-23b(1)	0.185790	1.110072	-6.0	6.00E-08	8.95E-07
193	miR-23bSTAR(1)	0.000697	0.002962	-4.2	1.64E-02	4.03E-02
194	miR-24-1STAR(1)	0.002739	0.010730	-3.8	1.61E-02	3.96E-02
195	miR-24-2STAR(1)	0.021646	0.039122	-1.8	1.42E-01	2.32E-01
196	miR-25(1)	0.132499	0.216665	-1.6	6.10E-02	1.17E-01
197	miR-26a-1STAR(1)	0.000141	0.000717	-4.7	2.40E-02	5.50E-02
198	miR-26bSTAR(1)	0.001320	0.003454	-2.6	9.98E-02	1.76E-01
199	miR-27a(1)	0.490131	1.595913	-3.3	2.06E-05	1.45E-04
200	miR-27aSTAR(1)	0.004610	0.028133	-6.0	9.73E-05	5.52E-04
201	miR-27b(1)	0.559267	2.181145	-3.9	5.79E-07	6.39E-06
202	miR-27bSTAR(1)	0.003656	0.025288	-6.9	2.11E-05	1.47E-04
203	miR-28-3p(1)	0.046252	0.132554	-2.9	2.38E-04	1.17E-03
204	miR-28-5p(1)	0.053201	0.134892	-2.5	1.25E-02	3.30E-02
205	miR-296-3p(1)	0.000542	0.001093	-1.9	8.95E-02	1.62E-01
206	miR-296-5p(1)	0.000881	0.001884	-2.1	4.15E-02	8.51E-02
207	miR-299-3p(1)	0.000675	0.005897	-8.1	1.58E-03	6.03E-03
208	miR-299-5p(1)	0.006489	0.024095	-3.7	3.78E-03	1.23E-02
209	miR-29b-2STAR(1)	0.000756	0.002771	-3.5	4.70E-02	9.52E-02
210	miR-29b(2)	0.047172	0.106145	-2.2	1.34E-02	3.43E-02

	A	B	C	D	E	F
211	miR-29c(1)	0.046826	0.110747	-2.4	3.79E-02	7.93E-02
212	miR-29cSTAR(1)	0.003358	0.007987	-2.3	1.05E-01	1.84E-01
213	miR-301b(1)	0.001788	0.003387	-1.9	6.61E-02	1.24E-01
214	miR-3064-5p(1)	0.000067	0.000247	-3.0	1.47E-01	2.40E-01
215	miR-3065-3p(1)	0.000034	0.000265	-6.8	1.31E-02	3.39E-02
216	miR-3065-5p(1)	0.000222	0.001021	-4.1	1.09E-02	2.97E-02
217	miR-30a(1)	1.741285	0.577132	3.0	2.88E-03	1.00E-02
218	miR-30aSTAR(1)	0.237320	0.117600	2.0	1.17E-02	3.14E-02
219	miR-30b(1)	0.188736	0.361902	-1.9	3.84E-02	7.97E-02
220	miR-30c-1STAR	0.001263	0.003174	-2.5	5.37E-03	1.65E-02
221	miR-30dSTAR(1)	0.003905	0.006134	-1.6	1.27E-01	2.14E-01
222	miR-30eSTAR(1)	0.086269	0.199059	-2.3	4.10E-04	1.80E-03
223	miR-31-5p(1)	0.000258	0.000859	-4.3	6.19E-03	1.87E-02
224	miR-3117(1)	0.000017	0.000101	-4.1	9.09E-02	1.63E-01
225	miR-3120(1)	0.000033	0.000000	6.3	1.29E-02	3.37E-02
226	miR-3130-3p(1)	0.000010	0.000059	-3.4	1.34E-01	2.24E-01
227	miR-3130-5p(1)	0.000025	0.000165	-5.6	3.14E-02	6.77E-02
228	miR-3136(1)	0.000012	0.000135	-8.1	2.45E-03	8.78E-03
229	miR-3145-3p(1)	0.000008	0.000052	-3.7	5.63E-02	1.10E-01
230	miR-3152(1)	0.000002	0.000021	-3.1	9.36E-02	1.67E-01
231	miR-3158STAR	0.000012	0.000072	-4.5	1.14E-01	1.97E-01
232	miR-3177(1)	0.000015	0.000065	-3.7	6.91E-02	1.29E-01
233	miR-32(1)	0.009350	0.022541	-2.4	5.78E-02	1.12E-01
234	miR-320(1)	0.458900	0.935921	-2.0	6.36E-03	1.92E-02
235	miR-3200(1)	0.000148	0.000689	-4.1	5.72E-04	2.45E-03
236	miR-323a(1)	0.000661	0.002540	-3.6	3.39E-02	7.27E-02
237	miR-323b(1)	0.000157	0.000613	-3.6	1.20E-02	3.21E-02
238	miR-323bSTAR	0.000066	0.000648	-7.4	2.06E-04	1.05E-03
239	miR-324-3p(1)	0.005130	0.020069	-3.9	3.63E-04	1.65E-03
240	miR-324-5p(1)	0.007731	0.043546	-5.6	2.89E-05	1.89E-04

	A	B	C	D	E	F
241	miR-328(1)	0.003123	0.006316	-2.0	7.00E-02	1.30E-01
242	miR-329(2)	0.002014	0.005049	-2.4	1.30E-02	3.38E-02
243	miR-329STAR(2)	0.000023	0.000139	-4.4	7.12E-03	2.08E-02
244	miR-32STAR(1)	0.000356	0.001283	-3.5	1.54E-02	3.82E-02
245	miR-330(1)	0.015515	0.009389	1.7	7.04E-02	1.30E-01
246	miR-330STAR(1)	0.000656	0.001091	-1.6	8.57E-02	1.56E-01
247	miR-331(1)	0.010224	0.025131	-2.4	4.36E-03	1.39E-02
248	miR-331STAR(1)	0.000752	0.002426	-3.0	1.85E-03	6.86E-03
249	miR-337(1)	0.004208	0.018210	-4.3	1.81E-03	6.76E-03
250	miR-338-3p(1)	0.002826	0.048033	-16.7	1.90E-07	2.41E-06
251	miR-338-5p(1)	0.001102	0.009415	-8.3	2.67E-04	1.28E-03
252	miR-339-5p(1)	0.004093	0.008251	-2.0	2.03E-02	4.82E-02
253	miR-33a(1)	0.002060	0.036658	-17.4	6.61E-10	2.16E-08
254	miR-33aSTAR(1)	0.000439	0.003343	-6.9	6.94E-05	4.16E-04
255	miR-33b(1)	0.000830	0.006140	-6.9	9.22E-04	3.70E-03
256	miR-33bSTAR(1)	0.000010	0.000303	-14.2	7.12E-04	2.97E-03
257	miR-340(1)	0.038191	0.002997	12.8	4.22E-03	1.35E-02
258	miR-342(1)	0.045020	0.084378	-1.9	5.87E-03	1.79E-02
259	miR-345(1)	0.004768	0.016249	-3.4	1.52E-05	1.12E-04
260	miR-34a(1)	0.030882	0.050530	-1.6	5.64E-02	1.10E-01
261	miR-34b(1)	0.000245	0.000970	-3.5	6.26E-02	1.20E-01
262	miR-361-3p(1)	0.008696	0.015206	-1.7	2.89E-02	6.29E-02
263	miR-361-5p(1)	0.024989	0.042867	-1.7	1.42E-01	2.33E-01
264	miR-3617(1)	0.000202	0.000520	-3.5	1.26E-01	2.13E-01
265	miR-362-3p(1)	0.002930	0.010505	-3.5	6.78E-03	2.01E-02
266	miR-362-5p(1)	0.011008	0.026941	-2.4	6.81E-03	2.02E-02
267	miR-363(1)	0.013924	0.037352	-2.7	2.10E-04	1.07E-03
268	miR-363STAR(1)	0.000031	0.000080	-2.7	6.34E-02	1.21E-01
269	miR-365-1STAR	0.000055	0.000652	-9.2	3.68E-03	1.20E-02
270	miR-365(2)	0.018809	0.075080	-4.0	2.97E-03	1.02E-02

	A	B	C	D	E	F
271	miR-3657(1)	0.000007	0.000047	-3.6	6.07E-02	1.17E-01
272	miR-3659(1)	0.000016	0.001347	-39.7	8.36E-06	6.52E-05
273	miR-3664-3p(1)	0.000000	0.000063	-13.5	2.25E-02	5.25E-02
274	miR-3677-5p(1)	0.000002	0.000034	-4.4	1.03E-01	1.81E-01
275	miR-369(1)	0.014603	0.038361	-2.6	6.93E-03	2.04E-02
276	miR-369STAR(1)	0.000875	0.003531	-3.8	6.51E-03	1.95E-02
277	miR-370(1)	0.003571	0.010611	-2.9	1.49E-02	3.76E-02
278	miR-370STAR(1)	0.000172	0.000643	-3.3	3.61E-03	1.19E-02
279	miR-371(1)	0.004970	0.000048	78.9	6.84E-06	5.43E-05
280	miR-371STAR(1)	0.000348	0.000009	21.0	3.24E-03	1.10E-02
281	miR-372(1)	0.018904	0.000242	73.0	4.56E-06	3.69E-05
282	miR-373(1)	0.007085	0.000087	66.6	8.62E-07	8.94E-06
283	miR-373STAR(1)	0.000063	0.000003	8.1	4.83E-02	9.69E-02
284	miR-375(1)	0.000212	0.008830	-68.4	1.10E-07	1.53E-06
285	miR-376a-1-5p	0.001587	0.006708	-4.1	6.71E-04	2.84E-03
286	miR-376a-2-5p	0.000612	0.003961	-6.0	2.63E-04	1.27E-03
287	miR-376a-3p(2)	0.003583	0.011717	-3.2	1.21E-02	3.22E-02
288	miR-376a-A6G-	0.025540	0.140231	-5.5	1.28E-02	3.35E-02
289	miR-376b(1)	0.002957	0.033557	-11.2	1.59E-05	1.15E-04
290	miR-376bSTAR	0.000597	0.003442	-5.3	1.16E-04	6.30E-04
291	miR-376c(1)	0.113409	0.403952	-3.6	1.54E-02	3.82E-02
292	miR-376cSTAR	0.000696	0.003720	-5.0	9.96E-05	5.57E-04
293	miR-378(1)	2.473134	1.254631	2.0	1.52E-02	3.79E-02
294	miR-379(1)	0.011707	0.044907	-3.8	1.38E-03	5.34E-03
295	miR-380-3p(1)	0.000165	0.000465	-2.8	4.80E-02	9.69E-02
296	miR-380-5p(1)	0.000145	0.000486	-3.1	1.38E-02	3.52E-02
297	miR-381STAR(1)	0.000159	0.001014	-5.4	7.46E-03	2.14E-02
298	miR-382-3p(1)	0.002494	0.010060	-3.9	2.13E-03	7.85E-03
299	miR-382-5p(1)	0.007181	0.022146	-3.1	1.49E-02	3.76E-02
300	miR-383(1)	0.000002	0.000330	-33.5	1.90E-05	1.35E-04

	A	B	C	D	E	F
301	miR-3910(1)	0.000049	0.000902	-15.3	2.64E-04	1.27E-03
302	miR-3912(1)	0.000158	0.000587	-3.5	9.32E-02	1.67E-01
303	miR-3919-3p(1)	0.000000	0.000007	-2.7	1.15E-01	1.98E-01
304	miR-3934(1)	0.000122	0.000439	-3.1	2.44E-02	5.55E-02
305	miR-3940(1)	0.000033	0.000143	-3.0	1.30E-01	2.19E-01
306	miR-409-3p(1)	0.009597	0.039162	-4.0	2.76E-02	6.06E-02
307	miR-409-5p(1)	0.001560	0.008299	-5.1	1.55E-04	8.23E-04
308	miR-411(1)	0.015467	0.032912	-2.1	1.36E-01	2.26E-01
309	miR-412(1)	0.000350	0.001327	-3.4	2.40E-02	5.50E-02
310	miR-423-3p(1)	0.062630	0.242042	-3.9	2.49E-05	1.66E-04
311	miR-423-5p(1)	0.022326	0.057746	-2.6	4.02E-03	1.29E-02
312	miR-425(1)	0.054334	0.101433	-1.9	1.67E-02	4.08E-02
313	miR-425STAR(1)	0.002932	0.010742	-3.6	2.45E-04	1.19E-03
314	miR-429(1)	0.000244	0.040148	-229.6	2.78E-12	4.72E-10
315	miR-429STAR(1)	0.000036	0.000130	-10.9	5.21E-03	1.61E-02
316	miR-431-3p(1)	0.000408	0.001099	-2.6	1.28E-02	3.35E-02
317	miR-431-5p(1)	0.007376	0.003195	2.3	7.42E-03	2.14E-02
318	miR-432(1)	0.002613	0.007788	-2.9	3.59E-03	1.18E-02
319	miR-4326(1)	0.000099	0.000296	-2.7	1.15E-01	1.98E-01
320	miR-432STAR(1)	0.000052	0.000187	-3.4	5.36E-02	1.06E-01
321	miR-433(1)	0.000823	0.003524	-4.1	3.31E-03	1.11E-02
322	miR-433STAR(1)	0.000066	0.000288	-3.5	2.51E-02	5.64E-02
323	miR-449a(1)	0.000080	0.000257	-2.8	8.03E-02	1.47E-01
324	miR-450a-1STA	0.000313	0.002140	-6.0	2.16E-03	7.88E-03
325	miR-450a-2STA	0.000411	0.001245	-3.0	1.15E-01	1.98E-01
326	miR-450a(2)	0.004915	0.035589	-7.1	1.58E-04	8.33E-04
327	miR-450b(1)	0.008443	0.019722	-2.3	2.82E-02	6.18E-02
328	miR-450bSTAR	0.000033	0.000199	-4.7	1.99E-02	4.72E-02
329	miR-452(1)	0.022441	0.083638	-3.7	3.01E-06	2.59E-05
330	miR-452STAR(1)	0.004809	0.013916	-2.9	2.18E-03	7.93E-03

	A	B	C	D	E	F
331	miR-454(1)	0.003674	0.008294	-2.2	1.76E-02	4.26E-02
332	miR-455-3p(1)	0.014015	0.103256	-7.4	3.48E-07	4.05E-06
333	miR-455-5p(1)	0.001835	0.027205	-14.5	1.20E-07	1.62E-06
334	miR-4690(1)	0.000034	0.000130	-2.6	8.61E-02	1.56E-01
335	miR-4705(1)	0.000018	0.000115	-3.9	2.74E-02	6.04E-02
336	miR-4725-3p(1)	0.000047	0.000006	3.8	9.71E-02	1.72E-01
337	miR-4789-3p(1)	0.000000	0.000082	-18.7	2.16E-03	7.88E-03
338	miR-484(1)	0.010979	0.021025	-1.9	2.40E-02	5.50E-02
339	miR-485-3p(1)	0.000537	0.001218	-2.1	5.52E-02	1.08E-01
340	miR-485-5p(1)	0.000980	0.005173	-5.1	7.55E-03	2.16E-02
341	miR-487a-5p(1)	0.000250	0.001042	-3.6	2.53E-02	5.67E-02
342	miR-487b(1)	0.007063	0.028308	-4.0	7.19E-04	2.98E-03
343	miR-488(1)	0.001064	0.005602	-5.0	3.50E-03	1.16E-02
344	miR-489(1)	0.001130	0.000312	4.0	5.62E-02	1.10E-01
345	miR-491(1)	0.001036	0.002142	-1.9	1.33E-01	2.22E-01
346	miR-493-3p(1)	0.002573	0.009495	-3.6	2.90E-03	1.01E-02
347	miR-493-5p(1)	0.005541	0.014231	-2.5	3.60E-02	7.60E-02
348	miR-494(1)	0.004757	0.018462	-3.8	2.41E-02	5.51E-02
349	miR-494STAR(1)	0.000020	0.000079	-2.5	1.37E-01	2.28E-01
350	miR-495STAR(1)	0.000123	0.000326	-2.3	9.49E-02	1.69E-01
351	miR-496(1)	0.000292	0.000675	-2.4	5.06E-02	1.01E-01
352	miR-498(1)	0.013447	0.000034	309.6	4.08E-09	8.88E-08
353	miR-498STAR(1)	0.004329	0.000003	451.1	1.23E-07	1.63E-06
354	miR-500-5p(2)	0.001025	0.003151	-2.9	1.47E-02	3.73E-02
355	miR-501-5p(1)	0.001300	0.002306	-1.7	1.11E-01	1.91E-01
356	miR-502(1)	0.012863	0.021575	-1.7	6.31E-02	1.20E-01
357	miR-505(1)	0.005821	0.009375	-1.6	1.40E-01	2.32E-01
358	miR-505STAR(1)	0.000206	0.000500	-2.1	5.45E-02	1.07E-01
359	miR-506(1)	0.000023	0.001591	-45.6	1.68E-06	1.57E-05
360	miR-508(1)	0.000217	0.013871	-82.8	3.92E-07	4.46E-06

	A	B	C	D	E	F
361	miR-508STAR(1	0.000000	0.000146	-30.3	6.78E-03	2.01E-02
362	miR-509-3-5p(1	0.000038	0.000731	-17.7	2.27E-04	1.12E-03
363	miR-509-3p(3)	0.000039	0.016208	-291.1	6.26E-07	6.82E-06
364	miR-509-5p(2)	0.000002	0.000330	-33.3	1.04E-03	4.14E-03
365	miR-510-3p(1)	0.000000	0.000193	-40.8	7.02E-04	2.94E-03
366	miR-510-5p(1)	0.000000	0.000184	-35.3	2.82E-04	1.33E-03
367	miR-512-3p(2)	0.145868	0.000636	236.1	6.00E-13	1.51E-10
368	miR-512-5p(2)	0.023110	0.000195	116.8	4.50E-09	9.34E-08
369	miR-513a-3p(2)	0.000004	0.000764	-55.8	1.95E-04	1.01E-03
370	miR-513a-5p(2)	0.000006	0.000784	-53.0	2.02E-06	1.87E-05
371	miR-513b(1)	0.000010	0.000703	-59.2	1.42E-05	1.06E-04
372	miR-513c-3p(1)	0.000004	0.000731	-53.4	2.76E-06	2.44E-05
373	miR-513c-5p(1)	0.000004	0.000757	-55.8	1.59E-05	1.15E-04
374	miR-514a(3)	0.000504	0.043465	-80.8	1.61E-06	1.54E-05
375	miR-514aSTAR	0.000012	0.002487	-101.7	2.28E-05	1.57E-04
376	miR-514b-3p(1)	0.000004	0.000564	-41.6	9.43E-06	7.22E-05
377	miR-514b-5p(1)	0.000000	0.000323	-67.7	3.10E-04	1.45E-03
378	miR-515(2)	0.828497	0.001635	517.4	5.32E-09	1.05E-07
379	miR-515STAR(2	0.177570	0.000669	274.2	7.83E-07	8.22E-06
380	miR-516a(2)	0.614098	0.003878	159.5	1.24E-08	2.16E-07
381	miR-516b(2)	0.587285	0.001621	370.5	6.77E-08	9.76E-07
382	miR-516STAR(4	0.018389	0.000057	330.1	4.22E-10	1.63E-08
383	miR-517a(2)	0.540540	0.002021	275.3	1.16E-11	9.82E-10
384	miR-517b(1)	0.090358	0.000318	308.5	1.81E-11	1.40E-09
385	miR-517STAR(3	0.012707	0.000051	414.1	1.60E-06	1.54E-05
386	miR-518a-1-3p	0.094821	0.000337	341.2	2.30E-07	2.80E-06
387	miR-518a-2-3p	0.094821	0.000337	341.2	2.30E-07	2.80E-06
388	miR-518a-5p(3)	0.098978	0.001947	51.9	7.75E-06	6.10E-05
389	miR-518b-3p(1)	0.297708	0.000841	368.8	1.39E-14	1.18E-11
390	miR-518b-5p(1)	0.001451	0.000007	104.5	5.54E-05	3.41E-04

	A	B	C	D	E	F
391	miR-518c-3p(1)	0.525212	0.001287	422.2	1.01E-11	9.53E-10
392	miR-518c-5p(1)	0.005249	0.000063	105.9	3.47E-06	2.86E-05
393	miR-518d-3p(1)	0.004394	0.000019	145.7	7.08E-07	7.62E-06
394	miR-518d-5p(5)	0.015840	0.000157	103.3	1.13E-06	1.13E-05
395	miR-518e-3p(1)	0.386865	0.000881	460.9	1.83E-09	4.31E-08
396	miR-518e-5p(5)	0.077066	0.000206	397.6	6.66E-09	1.26E-07
397	miR-518f-3p(1)	0.113895	0.000290	400.5	7.13E-13	1.51E-10
398	miR-519a-1-5p	0.035542	0.000099	390.3	3.27E-11	2.32E-09
399	miR-519a-2-5p	0.046181	0.000121	454.6	3.08E-08	4.94E-07
400	miR-519a-3p(2)	0.277172	0.001375	207.8	1.43E-09	3.80E-08
401	miR-519b-3p(1)	0.024961	0.000281	89.9	1.70E-09	4.13E-08
402	miR-519c-3p(1)	0.016985	0.000087	217.2	1.28E-09	3.52E-08
403	miR-519d(1)	0.113205	0.000522	227.9	1.75E-13	7.43E-11
404	miR-519dSTAR	0.005320	0.000008	364.3	1.37E-08	2.33E-07
405	miR-519e-3p(1)	0.005553	0.000015	242.1	9.31E-07	9.54E-06
406	miR-519e-5p(1)	0.035445	0.000103	319.4	1.43E-06	1.42E-05
407	miR-520a-3p(1)	0.037570	0.000131	362.3	6.16E-11	3.74E-09
408	miR-520a-5p(1)	0.013987	0.000300	50.7	1.67E-06	1.57E-05
409	miR-520b-3p(2)	0.020944	0.000257	90.3	1.01E-09	3.17E-08
410	miR-520d-3p(1)	0.049998	0.000202	285.6	1.16E-09	3.52E-08
411	miR-520d-5p(1)	0.044015	0.000638	74.9	2.42E-07	2.90E-06
412	miR-520e-3p(1)	0.001374	0.000015	68.2	4.21E-06	3.44E-05
413	miR-520e-5p(1)	0.000299	0.000000	62.5	2.71E-04	1.28E-03
414	miR-520f-3p(1)	0.023177	0.000158	154.6	1.27E-09	3.52E-08
415	miR-520f-5p(1)	0.001438	0.000020	126.3	7.94E-05	4.53E-04
416	miR-520g-3p(2)	0.117505	0.000633	202.8	6.64E-12	7.06E-10
417	miR-520g-5p(2)	0.001721	0.000000	348.1	2.49E-05	1.66E-04
418	miR-521-1STAR	0.002995	0.000012	159.9	3.28E-06	2.76E-05
419	miR-521-2STAR	0.000067	0.000000	17.8	2.09E-02	4.90E-02
420	miR-521(2)	0.101857	0.000208	583.9	1.51E-09	3.89E-08

	A	B	C	D	E	F
421	miR-522-3p(1)	0.048030	0.000180	342.6	3.92E-12	4.76E-10
422	miR-523-3p(1)	0.020857	0.000095	233.9	1.23E-09	3.52E-08
423	miR-524(1)	0.078203	0.000567	151.4	3.41E-08	5.36E-07
424	miR-524STAR(1)	0.015339	0.000064	236.8	1.18E-08	2.09E-07
425	miR-525-3p(1)	0.046746	0.000250	216.1	4.79E-08	7.27E-07
426	miR-525-5p(1)	0.047838	0.000116	396.7	1.91E-10	7.75E-09
427	miR-526a-1-3p(1)	0.002365	0.000026	137.8	2.29E-05	1.57E-04
428	miR-526b-3p(1)	0.018659	0.000168	118.9	9.06E-08	1.28E-06
429	miR-526b-5p(1)	0.043166	0.000218	207.9	5.36E-10	1.90E-08
430	miR-527STAR(1)	0.006394	0.000118	58.3	5.96E-04	2.54E-03
431	miR-532-3p(1)	0.010669	0.021982	-2.1	1.67E-02	4.08E-02
432	miR-532-5p(1)	0.012820	0.050390	-3.9	1.19E-05	8.94E-05
433	miR-539(1)	0.001619	0.005899	-3.5	3.87E-03	1.25E-02
434	miR-539STAR(1)	0.000412	0.001086	-2.6	1.31E-02	3.39E-02
435	miR-542(1)	0.021646	0.117700	-5.4	3.81E-04	1.71E-03
436	miR-542STAR(1)	0.001098	0.005009	-4.4	1.02E-02	2.81E-02
437	miR-543STAR(1)	0.000188	0.000405	-2.1	1.09E-01	1.89E-01
438	miR-544-3p(1)	0.000126	0.000345	-2.8	1.05E-01	1.84E-01
439	miR-544-5p(1)	0.000081	0.000534	-4.9	5.72E-03	1.75E-02
440	miR-545-5p(1)	0.000220	0.000553	-2.3	1.16E-01	1.98E-01
441	miR-548b(1)	0.000114	0.000534	-5.3	3.33E-04	1.54E-03
442	miR-548e(1)	0.000643	0.001281	-1.9	5.67E-02	1.10E-01
443	miR-551a(1)	0.000043	0.000402	-6.8	3.81E-04	1.71E-03
444	miR-552-3p(1)	0.000185	0.000033	4.9	8.30E-02	1.52E-01
445	miR-556-3p(1)	0.000008	0.000097	-4.8	1.10E-01	1.91E-01
446	miR-556-5p(1)	0.000046	0.000231	-5.5	5.30E-02	1.05E-01
447	miR-561(1)	0.000034	0.000444	-11.2	9.88E-05	5.56E-04
448	miR-561STAR(1)	0.000038	0.000096	-6.3	2.06E-02	4.85E-02
449	miR-570-5p(1)	0.000090	0.000348	-4.3	1.38E-02	3.51E-02
450	miR-574-3p(1)	0.018065	0.087547	-4.8	2.52E-06	2.25E-05

	A	B	C	D	E	F
451	miR-574-5p(1)	0.005394	0.019050	-3.5	1.12E-04	6.15E-04
452	miR-576-3p(1)	0.001030	0.002710	-2.5	6.44E-02	1.22E-01
453	miR-576-5p(1)	0.000896	0.002288	-2.5	1.48E-01	2.41E-01
454	miR-577(1)	0.000000	0.000088	-18.2	4.88E-04	2.13E-03
455	miR-579-3p(1)	0.000021	0.000137	-3.7	9.07E-02	1.63E-01
456	miR-582(1)	0.000647	0.004051	-6.1	4.89E-03	1.53E-02
457	miR-582STAR(1)	0.000541	0.001879	-3.4	2.72E-02	6.01E-02
458	miR-584(1)	0.000583	0.001676	-2.8	4.83E-02	9.69E-02
459	miR-589-3p(1)	0.000172	0.000350	-1.8	8.43E-02	1.54E-01
460	miR-590-5p(1)	0.001376	0.005960	-4.2	1.51E-02	3.78E-02
461	miR-592(1)	0.000023	0.000159	-5.0	3.44E-03	1.15E-02
462	miR-597(1)	0.000098	0.000437	-5.2	3.80E-02	7.94E-02
463	miR-598(1)	0.001339	0.004197	-3.1	1.73E-03	6.52E-03
464	miR-615STAR(1)	0.000271	0.000613	-2.1	5.73E-02	1.11E-01
465	miR-624-3p(1)	0.000099	0.000366	-3.2	1.06E-01	1.85E-01
466	miR-625-3p(1)	0.000820	0.002604	-3.1	5.14E-03	1.59E-02
467	miR-625-5p(1)	0.000924	0.003681	-3.8	2.83E-03	9.97E-03
468	miR-627-3p(1)	0.000223	0.000551	-2.3	6.41E-02	1.21E-01
469	miR-627-5p(1)	0.001594	0.003777	-2.3	6.30E-02	1.20E-01
470	miR-629(1)	0.002588	0.014654	-5.5	2.35E-05	1.60E-04
471	miR-636STAR(1)	0.000843	0.000043	21.7	1.05E-03	4.16E-03
472	miR-641-3p(1)	0.000014	0.000078	-3.1	6.55E-02	1.23E-01
473	miR-642-5p(1)	0.000560	0.000107	5.6	5.88E-02	1.13E-01
474	miR-651(1)	0.000400	0.002692	-6.5	1.53E-05	1.12E-04
475	miR-652(1)	0.010882	0.049542	-4.5	1.01E-05	7.66E-05
476	miR-652STAR(1)	0.000580	0.004870	-8.1	3.73E-03	1.22E-02
477	miR-654(1)	0.002909	0.016450	-5.6	7.16E-05	4.20E-04
478	miR-654STAR(1)	0.002560	0.005910	-2.3	6.89E-03	2.03E-02
479	miR-655(1)	0.003674	0.011449	-3.0	4.39E-02	8.94E-02
480	miR-656(1)	0.000726	0.004080	-5.2	3.87E-04	1.72E-03

	A	B	C	D	E	F
481	miR-656STAR(1	0.000030	0.000104	-2.7	9.78E-02	1.73E-01
482	miR-660(1)	0.008473	0.038638	-4.5	6.27E-05	3.81E-04
483	miR-665(1)	0.001898	0.011994	-6.1	2.52E-03	9.01E-03
484	miR-665STAR(1	0.000027	0.000117	-2.9	6.73E-02	1.26E-01
485	miR-671-3p(1)	0.000315	0.000814	-2.4	6.37E-02	1.21E-01
486	miR-671-5p(1)	0.006600	0.014035	-2.1	1.26E-01	2.13E-01
487	miR-6720-3p(1)	0.000006	0.000348	-20.6	3.46E-03	1.15E-02
488	miR-6720-5p(1)	0.000000	0.000179	-37.7	5.00E-05	3.10E-04
489	miR-7-1STAR(1	0.001172	0.002774	-2.3	8.49E-03	2.40E-02
490	miR-708(1)	0.024795	0.101922	-4.1	7.64E-05	4.42E-04
491	miR-708STAR(1	0.001146	0.006943	-5.7	4.05E-04	1.79E-03
492	miR-744(1)	0.011869	0.028298	-2.4	2.95E-03	1.02E-02
493	miR-744STAR(1	0.000131	0.000563	-3.8	1.89E-02	4.51E-02
494	miR-758(1)	0.000561	0.002915	-5.6	4.29E-05	2.70E-04
495	miR-760(1)	0.001796	0.006257	-3.4	2.07E-03	7.66E-03
496	miR-767(1)	0.000002	0.000029	-4.2	2.49E-02	5.62E-02
497	miR-769(1)	0.014678	0.033268	-2.3	3.28E-03	1.11E-02
498	miR-769STAR(1	0.000406	0.001108	-2.5	2.26E-02	5.26E-02
499	miR-770(1)	0.000004	0.000104	-10.7	1.76E-03	6.60E-03
500	miR-873(1)	0.000150	0.002294	-13.2	2.26E-06	2.07E-05
501	miR-873STAR(1	0.000008	0.000124	-6.5	5.98E-04	2.54E-03
502	miR-874(1)	0.008899	0.022289	-2.5	8.34E-03	2.36E-02
503	miR-874STAR(1	0.000684	0.001778	-2.5	4.76E-02	9.64E-02
504	miR-876-3p(1)	0.000048	0.000414	-9.3	1.11E-02	3.02E-02
505	miR-876-5p(1)	0.000004	0.000670	-49.0	1.43E-04	7.68E-04
506	miR-877-3p(1)	0.000046	0.000214	-3.5	3.51E-02	7.43E-02
507	miR-885(1)	0.000024	0.000416	-11.8	1.22E-02	3.23E-02
508	miR-887(1)	0.007145	0.017209	-2.4	2.44E-02	5.55E-02
509	miR-9(3)	0.003183	0.024679	-7.7	1.03E-04	5.72E-04
510	miR-92a-1STAR	0.000179	0.000571	-2.9	1.58E-02	3.90E-02

	A	B	C	D	E	F
511	miR-92a(2)	0.086821	0.342477	-3.9	2.46E-06	2.22E-05
512	miR-92b(1)	0.001904	0.006344	-3.2	7.23E-04	2.99E-03
513	miR-92bSTAR(1)	0.000214	0.000639	-2.7	4.64E-03	1.46E-02
514	miR-93(1)	0.194409	0.300083	-1.5	5.55E-02	1.09E-01
515	miR-934(1)	0.000000	0.000293	-59.9	3.12E-04	1.45E-03
516	miR-93STAR(1)	0.002201	0.005906	-2.7	3.31E-03	1.11E-02
517	miR-942STAR(1)	0.000014	0.000095	-3.8	1.29E-01	2.16E-01
518	miR-944(1)	0.000085	0.005925	-71.8	6.25E-08	9.16E-07
519	miR-944STAR(1)	0.000000	0.000227	-48.6	4.25E-04	1.86E-03
520	miR-95(1)	0.003612	0.010486	-2.8	9.00E-03	2.52E-02
521	miR-96(1)	0.002022	0.019914	-9.4	7.00E-05	4.16E-04
522	miR-98(1)	0.054801	0.112021	-2.0	1.41E-01	2.32E-01
523	miR-98STAR(1)	0.000806	0.001342	-1.6	1.54E-01	2.50E-01
524	miR-99a(1)	0.842433	2.368637	-2.8	1.04E-02	2.84E-02
525	miR-99aSTAR(1)	0.001201	0.009615	-8.0	1.62E-04	8.50E-04
526	miR-99bSTAR(1)	0.003469	0.006728	-1.9	1.91E-02	4.55E-02
527	miR-9STAR(3)	0.000978	0.002884	-3.1	3.05E-02	6.59E-02

	A	B	C	D	E	F
1		Relative frequency (%)				
2	miRNA	HUVEC	NS	Fold change	P Value	FDR
3	miR-363(1)	0.000241	0.037352	-149.1	1.48E-14	1.14E-11
4	miR-182(1)	0.000673	0.086833	-128.3	2.69E-14	1.14E-11
5	miR-708(1)	0.000208	0.101922	-504.0	4.01E-13	1.14E-10
6	miR-148a(1)	0.081501	6.204235	-76.1	1.66E-12	3.53E-10
7	miR-142-3p(1)	0.000957	0.143444	-150.2	4.98E-12	8.47E-10
8	miR-217(1)	0.478305	0.000328	1371.5	1.07E-11	1.52E-09
9	miR-216aSTAR	0.013719	0.000004	1402.4	3.51E-11	4.26E-09
10	miR-155(1)	0.347328	0.008889	39.0	5.41E-11	5.17E-09
11	miR-183(1)	0.000336	0.031322	-87.5	5.47E-11	5.17E-09
12	miR-211(1)	0.000065	0.034175	-468.4	1.54E-10	1.31E-08
13	miR-486(1)	0.001068	0.044775	-41.4	2.79E-10	2.16E-08
14	miR-199b-5p(1)	0.002382	0.555891	-233.9	4.13E-10	2.93E-08
15	miR-429(1)	0.000227	0.040148	-178.1	4.55E-10	2.97E-08
16	miR-216a(1)	0.158657	0.000261	640.7	5.72E-10	3.47E-08
17	miR-223(1)	0.000267	0.035462	-136.1	7.56E-10	4.28E-08
18	miR-146b(1)	0.005211	0.230151	-44.0	8.99E-10	4.77E-08
19	miR-193b(1)	0.008209	0.191975	-23.4	9.66E-10	4.83E-08
20	miR-200b(1)	0.001378	0.425736	-309.2	1.20E-09	5.66E-08
21	miR-31-5p(1)	0.192663	0.000859	233.9	1.60E-09	7.12E-08
22	miR-217STAR(1)	0.006270	0.000004	641.9	1.67E-09	7.12E-08
23	miR-148aSTAR	0.000590	0.012806	-21.6	2.46E-09	9.95E-08
24	miR-203(1)	0.006589	6.199758	-941.9	3.96E-09	1.53E-07
25	miR-199a-3p(3)	0.172428	4.394329	-25.5	5.05E-09	1.87E-07
26	miR-21(1)	49.957146	3.906535	12.8	5.79E-09	2.02E-07
27	miR-511-3p(2)	0.000016	0.005414	-277.9	5.93E-09	2.02E-07
28	miR-190a(1)	0.001196	0.038271	-32.1	6.43E-09	2.10E-07
29	miR-193bSTAR	0.000323	0.006890	-20.8	6.69E-09	2.11E-07
30	miR-200c(1)	0.001707	0.587965	-340.9	1.10E-08	3.34E-07

	A	B	C	D	E	F
31	miR-205(1)	0.003342	2.430434	-728.4	1.44E-08	4.23E-07
32	miR-504(1)	0.000098	0.004625	-48.7	2.27E-08	6.26E-07
33	miR-338-3p(1)	0.000685	0.048033	-69.6	2.28E-08	6.26E-07
34	miR-7(3)	0.320004	0.028887	11.1	4.27E-08	1.14E-06
35	miR-221STAR(1)	0.272301	0.015258	17.8	5.29E-08	1.36E-06
36	miR-31-3p(1)	0.113179	0.000409	301.4	5.61E-08	1.40E-06
37	miR-143(1)	0.313560	10.807826	-34.5	6.34E-08	1.54E-06
38	miR-200a(1)	0.001194	0.305010	-255.1	8.01E-08	1.89E-06
39	miR-23b(1)	0.136357	1.110072	-8.1	9.79E-08	2.25E-06
40	miR-708STAR(1)	0.000054	0.006943	-114.5	1.38E-07	3.09E-06
41	miR-210(1)	0.028199	0.525164	-18.6	1.73E-07	3.71E-06
42	miR-222(1)	2.294373	0.460232	5.0	1.74E-07	3.71E-06
43	miR-20b(1)	0.000888	0.012596	-13.9	1.98E-07	4.10E-06
44	miR-141(1)	0.004910	2.157410	-437.6	2.26E-07	4.57E-06
45	miR-142-5p(1)	0.002403	0.130366	-54.4	2.31E-07	4.57E-06
46	miR-431-5p(1)	0.032467	0.003195	10.1	2.55E-07	4.92E-06
47	miR-1(2)	0.002209	0.407418	-185.5	2.71E-07	5.13E-06
48	miR-96(1)	0.000173	0.019914	-106.9	3.13E-07	5.79E-06
49	miR-143STAR(1)	0.000902	0.179024	-199.3	4.05E-07	7.32E-06
50	miR-375(1)	0.000045	0.008830	-153.7	4.15E-07	7.35E-06
51	miR-873(1)	0.000028	0.002294	-69.8	4.58E-07	7.95E-06
52	miR-421(1)	0.035925	0.002637	13.7	5.01E-07	8.46E-06
53	miR-944(1)	0.000032	0.005925	-135.5	5.08E-07	8.46E-06
54	miR-203STAR(1)	0.000153	0.084670	-535.4	5.89E-07	9.62E-06
55	miR-216b(1)	0.003883	0.000081	41.1	6.58E-07	1.05E-05
56	miR-3176(1)	0.001236	0.000070	21.5	6.70E-07	1.05E-05
57	miR-301b(1)	0.041360	0.003387	12.2	7.51E-07	1.16E-05
58	miR-508(1)	0.000029	0.013871	-414.6	7.76E-07	1.18E-05
59	miR-1247(1)	0.000028	0.004746	-142.5	8.21E-07	1.22E-05
60	miR-514a(3)	0.000040	0.043465	-1238.8	9.56E-07	1.40E-05

	A	B	C	D	E	F
61	miR-9(3)	0.000548	0.024679	-43.7	1.07E-06	1.54E-05
62	miR-137STAR(1)	0.001033	0.000000	207.2	1.13E-06	1.61E-05
63	miR-574-3p(1)	0.012011	0.087547	-7.3	1.18E-06	1.64E-05
64	miR-1197(1)	0.002804	0.000141	18.7	1.28E-06	1.75E-05
65	miR-27b(1)	0.477708	2.181145	-4.6	1.41E-06	1.91E-05
66	miR-150(1)	0.000411	0.033068	-80.2	1.45E-06	1.93E-05
67	miR-675-5p(1)	0.000020	0.004437	-225.1	1.55E-06	2.03E-05
68	miR-145(1)	0.023852	2.768055	-116.0	1.66E-06	2.13E-05
69	miR-101-1STAR(1)	0.001670	0.016112	-9.7	1.98E-06	2.52E-05
70	miR-488(1)	0.000042	0.005602	-119.6	2.01E-06	2.52E-05
71	miR-124(3)	0.000000	0.000618	-122.7	2.14E-06	2.64E-05
72	miR-451(1)	0.031573	2.033822	-64.4	2.20E-06	2.67E-05
73	miR-378(1)	0.218337	1.254631	-5.7	2.26E-06	2.70E-05
74	miR-135b(1)	0.000248	0.004144	-16.7	2.37E-06	2.79E-05
75	miR-144STAR(1)	0.000478	0.043365	-90.6	2.56E-06	2.98E-05
76	miR-585(1)	0.000052	0.001757	-30.1	2.63E-06	2.98E-05
77	miR-506(1)	0.000000	0.001591	-319.3	2.63E-06	2.98E-05
78	miR-153(2)	0.000195	0.015426	-81.8	2.83E-06	3.16E-05
79	miR-155STAR(1)	0.002043	0.000033	49.9	2.86E-06	3.16E-05
80	miR-101(2)	0.171595	1.097522	-6.4	3.10E-06	3.38E-05
81	miR-144(1)	0.002893	0.302408	-104.8	3.56E-06	3.79E-05
82	miR-509-3p(3)	0.000000	0.016208	-3231.3	3.56E-06	3.79E-05
83	miR-187(1)	0.000165	0.002871	-17.0	3.63E-06	3.81E-05
84	miR-196a-2STAR(1)	0.000031	0.010971	-322.9	3.90E-06	4.04E-05
85	miR-214-5p(1)	0.002323	0.016689	-7.2	3.96E-06	4.06E-05
86	miR-29b(2)	0.884797	0.106145	8.3	4.10E-06	4.15E-05
87	miR-34a(1)	0.260820	0.050530	5.2	4.37E-06	4.37E-05
88	miR-126-3p(1)	7.524689	1.227377	6.1	4.95E-06	4.90E-05
89	miR-21STAR(1)	0.090420	0.007978	11.3	5.10E-06	4.98E-05
90	miR-378STAR(1)	0.001088	0.010110	-9.2	5.19E-06	5.01E-05

	A	B	C	D	E	F
91	miR-34c(1)	0.000280	0.007019	-24.1	5.40E-06	5.15E-05
92	miR-106aSTAR	0.000000	0.000539	-110.2	5.67E-06	5.36E-05
93	miR-200bSTAR	0.000013	0.004212	-222.7	6.00E-06	5.61E-05
94	miR-126-5p(1)	2.342417	0.337820	6.9	6.56E-06	6.06E-05
95	miR-1304STAR	0.001716	0.000241	7.2	6.94E-06	6.34E-05
96	miR-200aSTAR	0.000013	0.002689	-142.0	7.85E-06	7.05E-05
97	miR-202(1)	0.000072	0.003797	-49.8	7.88E-06	7.05E-05
98	miR-513a-5p(2)	0.000000	0.000784	-158.9	8.79E-06	7.78E-05
99	miR-125b(2)	0.330168	1.442813	-4.4	9.61E-06	8.42E-05
100	miR-296-5p(1)	0.000166	0.001884	-11.4	1.03E-05	8.93E-05
101	miR-1270(2)	0.000030	0.000617	-18.5	1.07E-05	9.20E-05
102	miR-141STAR(1)	0.000000	0.003210	-642.4	1.14E-05	9.70E-05
103	miR-412STAR(1)	0.000633	0.000017	26.2	1.18E-05	9.85E-05
104	miR-137(1)	0.103738	0.001637	63.1	1.18E-05	9.85E-05
105	miR-95(1)	0.000869	0.010486	-11.9	1.32E-05	1.09E-04
106	miR-513c-3p(1)	0.000000	0.000731	-147.3	1.34E-05	1.10E-04
107	miR-214-3p(1)	0.016362	0.088555	-5.4	1.44E-05	1.17E-04
108	miR-3659(1)	0.000000	0.001347	-269.3	1.54E-05	1.24E-04
109	miR-222STAR(1)	0.123104	0.001989	62.0	1.89E-05	1.50E-04
110	miR-210STAR(1)	0.000033	0.001696	-48.7	1.92E-05	1.51E-04
111	miR-483-3p(1)	0.000000	0.005330	-1067.3	2.07E-05	1.61E-04
112	miR-643STAR(1)	0.003025	0.000020	98.3	2.11E-05	1.63E-04
113	miR-204(1)	0.000951	0.010612	-10.9	2.17E-05	1.67E-04
114	miR-483-5p(1)	0.000070	0.010535	-163.7	2.22E-05	1.68E-04
115	miR-100STAR(1)	0.059543	0.000374	153.6	2.24E-05	1.69E-04
116	miR-1185-2-3p	0.003671	0.000206	17.2	2.27E-05	1.70E-04
117	miR-338-5p(1)	0.000305	0.009415	-30.5	2.38E-05	1.76E-04
118	miR-28-3p(1)	0.030096	0.132554	-4.4	2.43E-05	1.77E-04
119	miR-223STAR(1)	0.000013	0.000518	-27.9	2.44E-05	1.77E-04
120	miR-200cSTAR	0.000020	0.001640	-82.3	2.46E-05	1.77E-04

	A	B	C	D	E	F
121	miR-149(1)	0.003071	0.043176	-14.0	2.75E-05	1.96E-04
122	miR-3200(1)	0.005191	0.000689	7.3	2.99E-05	2.11E-04
123	miR-514b-3p(1)	0.000000	0.000564	-114.5	3.71E-05	2.60E-04
124	miR-133aSTAR	0.000000	0.005114	-1020.2	3.87E-05	2.70E-04
125	miR-145STAR(1)	0.001836	0.080254	-43.5	4.77E-05	3.30E-04
126	miR-511-5p(2)	0.000000	0.000395	-79.5	5.03E-05	3.44E-04
127	miR-152(1)	0.144807	0.706678	-4.9	5.32E-05	3.62E-04
128	miR-3910(1)	0.000000	0.000902	-182.6	5.51E-05	3.72E-04
129	miR-513b(1)	0.000000	0.000703	-143.0	5.71E-05	3.82E-04
130	miR-9STAR(3)	0.000115	0.002884	-24.1	5.93E-05	3.94E-04
131	miR-183STAR(1)	0.000016	0.000348	-17.8	6.17E-05	4.06E-04
132	miR-20bSTAR(1)	0.000016	0.000283	-15.5	6.72E-05	4.39E-04
133	miR-513c-5p(1)	0.000000	0.000757	-154.0	6.95E-05	4.51E-04
134	miR-3152(1)	0.000596	0.000021	19.9	7.01E-05	4.52E-04
135	miR-509-3-5p(1)	0.000000	0.000731	-145.8	7.81E-05	4.99E-04
136	miR-1193-5p(1)	0.000177	0.000000	38.3	8.19E-05	5.19E-04
137	miR-130b(1)	0.163976	0.036762	4.5	8.83E-05	5.55E-04
138	miR-199a-5p(2)	0.032885	0.718565	-21.9	8.89E-05	5.55E-04
139	miR-675-3p(1)	0.000040	0.003494	-98.6	9.17E-05	5.69E-04
140	miR-514aSTAR	0.000000	0.002487	-498.0	9.24E-05	5.69E-04
141	let-7bSTAR(1)	0.000981	0.007252	-7.3	9.34E-05	5.71E-04
142	miR-133a(2)	0.000529	0.055050	-106.4	9.42E-05	5.72E-04
143	miR-551b(1)	0.000073	0.002370	-28.2	1.00E-04	6.04E-04
144	miR-383(1)	0.000000	0.000330	-64.6	1.03E-04	6.14E-04
145	miR-192(1)	0.007140	0.033213	-4.6	1.04E-04	6.19E-04
146	let-7a-2STAR(1)	0.002021	0.000220	9.2	1.18E-04	6.98E-04
147	miR-3194-5p(1)	0.003349	0.000316	10.8	1.19E-04	6.98E-04
148	miR-205STAR(1)	0.000020	0.005473	-276.0	1.20E-04	6.99E-04
149	miR-151-3p(1)	0.585210	0.216476	2.7	1.23E-04	7.10E-04
150	miR-653-5p(1)	0.000000	0.000623	-117.0	1.24E-04	7.10E-04

	A	B	C	D	E	F
151	miR-125a(1)	0.067845	0.274388	-4.0	1.24E-04	7.10E-04
152	miR-129-1-3p(1)	0.000000	0.000325	-67.3	1.32E-04	7.46E-04
153	miR-532-5p(1)	0.013351	0.050390	-3.8	1.36E-04	7.66E-04
154	miR-130bSTAR	0.010052	0.002519	4.0	1.40E-04	7.81E-04
155	miR-29b-1STAR	0.005407	0.000228	24.7	1.42E-04	7.88E-04
156	miR-190aSTAR	0.000052	0.001285	-25.4	1.48E-04	8.18E-04
157	miR-30b(1)	0.077581	0.361902	-4.7	1.50E-04	8.24E-04
158	miR-1252(1)	0.000638	0.000028	18.3	1.53E-04	8.32E-04
159	miR-487a-3p(1)	0.016345	0.002475	6.5	1.59E-04	8.60E-04
160	miR-516b(2)	0.032175	0.001621	20.3	1.60E-04	8.60E-04
161	miR-154-3p(1)	0.020564	0.004008	5.1	1.79E-04	9.58E-04
162	miR-3614-5p(1)	0.000867	0.000036	20.3	1.83E-04	9.73E-04
163	miR-4636-3p(1)	0.000000	0.000223	-45.6	1.86E-04	9.81E-04
164	miR-34aSTAR(1)	0.007141	0.000551	13.1	1.87E-04	9.81E-04
165	miR-30aSTAR(1)	0.401208	0.117600	3.4	1.93E-04	1.00E-03
166	miR-3619-5p(1)	0.000586	0.000045	13.1	2.21E-04	1.15E-03
167	miR-196a(2)	0.001458	0.128007	-87.3	2.71E-04	1.39E-03
168	miR-335-5p(1)	0.031246	0.142437	-4.6	3.11E-04	1.58E-03
169	miR-218-2STAR	0.000000	0.000188	-39.3	3.13E-04	1.58E-03
170	miR-3187(1)	0.000844	0.000098	7.7	3.14E-04	1.58E-03
171	miR-425(1)	0.323005	0.101433	3.2	3.15E-04	1.58E-03
172	miR-154-5p(1)	0.000690	0.007471	-10.7	3.24E-04	1.62E-03
173	miR-589-5p(1)	0.002165	0.000413	5.2	3.55E-04	1.76E-03
174	miR-148bSTAR	0.010396	0.002163	4.8	3.59E-04	1.77E-03
175	miR-19aSTAR(1)	0.000943	0.000091	8.8	3.74E-04	1.83E-03
176	miR-3117(1)	0.002372	0.000101	21.9	3.74E-04	1.83E-03
177	miR-374aSTAR	0.066352	0.014636	4.5	4.15E-04	2.02E-03
178	miR-889(1)	0.014991	0.001314	11.3	4.27E-04	2.06E-03
179	miR-877-5p(1)	0.004723	0.001109	4.2	4.42E-04	2.12E-03
180	miR-150STAR(1)	0.000013	0.000427	-22.4	4.51E-04	2.15E-03

	A	B	C	D	E	F
181	miR-374bSTAR	0.008742	0.001234	7.3	4.59E-04	2.18E-03
182	miR-424(1)	0.525519	1.959808	-3.7	4.70E-04	2.22E-03
183	miR-211STAR(1)	0.000000	0.000284	-56.6	4.78E-04	2.24E-03
184	miR-615(1)	0.000091	0.002115	-21.4	5.26E-04	2.46E-03
185	miR-18aSTAR(1)	0.004723	0.001185	3.9	5.32E-04	2.46E-03
186	miR-6720-5p(1)	0.000000	0.000179	-37.7	5.32E-04	2.46E-03
187	miR-876-5p(1)	0.000000	0.000670	-136.8	5.51E-04	2.53E-03
188	miR-513a-3p(2)	0.000000	0.000764	-154.4	7.27E-04	3.32E-03
189	miR-133b(1)	0.000000	0.001663	-335.7	7.30E-04	3.32E-03
190	miR-320(1)	0.327718	0.935921	-2.9	7.72E-04	3.49E-03
191	miR-497(1)	0.160228	0.479853	-3.0	8.02E-04	3.61E-03
192	miR-30a(1)	2.257572	0.577132	3.9	8.52E-04	3.80E-03
193	miR-28-5p(1)	0.029132	0.134892	-4.6	8.54E-04	3.80E-03
194	miR-758STAR(1)	0.001138	0.000215	5.4	8.71E-04	3.86E-03
195	miR-3152STAR	0.000157	0.000006	15.8	9.13E-04	4.02E-03
196	miR-328(1)	0.001240	0.006316	-5.1	9.32E-04	4.08E-03
197	miR-182STAR(1)	0.000000	0.000158	-30.5	9.82E-04	4.28E-03
198	miR-30eSTAR(1)	0.082518	0.199059	-2.4	9.91E-04	4.30E-03
199	miR-1323(1)	0.002926	0.000170	17.6	1.00E-03	4.32E-03
200	miR-301a(1)	0.104012	0.024391	4.3	1.05E-03	4.52E-03
201	miR-491STAR(1)	0.001000	0.000078	11.1	1.14E-03	4.88E-03
202	miR-340(1)	0.072225	0.002997	24.1	1.21E-03	5.16E-03
203	miR-496(1)	0.003950	0.000675	5.6	1.24E-03	5.25E-03
204	miR-361-3p(1)	0.005626	0.015206	-2.7	1.26E-03	5.32E-03
205	miR-653-3p(1)	0.000000	0.000355	-64.5	1.27E-03	5.33E-03
206	miR-3120(1)	0.000075	0.000000	15.5	1.28E-03	5.33E-03
207	miR-153-2STAR	0.000000	0.000302	-62.9	1.40E-03	5.81E-03
208	miR-138(2)	0.001917	0.006309	-3.3	1.41E-03	5.82E-03
209	miR-380-3p(1)	0.003273	0.000465	6.7	1.53E-03	6.29E-03
210	miR-181d(1)	0.026775	0.010029	2.7	1.54E-03	6.31E-03

	A	B	C	D	E	F
211	miR-449c(1)	0.000139	0.000007	10.2	1.57E-03	6.34E-03
212	miR-516a(2)	0.024774	0.003878	6.4	1.57E-03	6.34E-03
213	miR-3126-5p(1)	0.000000	0.000114	-22.7	1.58E-03	6.37E-03
214	miR-652(1)	0.015959	0.049542	-3.1	1.66E-03	6.66E-03
215	miR-589-3p(1)	0.001124	0.000350	3.4	1.71E-03	6.81E-03
216	miR-585STAR(1)	0.000016	0.000314	-16.1	1.72E-03	6.84E-03
217	miR-584STAR(1)	0.000616	0.000063	9.4	1.77E-03	6.99E-03
218	miR-99a(1)	0.514523	2.368637	-4.6	1.83E-03	7.21E-03
219	miR-514b-5p(1)	0.000000	0.000323	-67.7	1.95E-03	7.64E-03
220	miR-541-5p(1)	0.000168	0.000014	7.7	1.96E-03	7.64E-03
221	miR-934(1)	0.000000	0.000293	-59.9	1.98E-03	7.67E-03
222	miR-510-5p(1)	0.000000	0.000184	-35.3	2.00E-03	7.71E-03
223	miR-3617(1)	0.000000	0.000520	-97.0	2.02E-03	7.78E-03
224	miR-1247STAR	0.000000	0.000364	-73.0	2.03E-03	7.78E-03
225	miR-380-5p(1)	0.002399	0.000486	4.7	2.10E-03	8.02E-03
226	miR-4705(1)	0.000000	0.000115	-24.0	2.11E-03	8.03E-03
227	miR-410(1)	0.026815	0.004641	5.7	2.22E-03	8.39E-03
228	miR-532-3p(1)	0.007310	0.021982	-3.0	2.28E-03	8.57E-03
229	miR-3934(1)	0.002378	0.000439	5.5	2.30E-03	8.63E-03
230	miR-876-3p(1)	0.000000	0.000414	-85.8	2.46E-03	9.18E-03
231	miR-944STAR(1)	0.000000	0.000227	-48.6	2.66E-03	9.89E-03
232	miR-23bSTAR(1)	0.000290	0.002962	-9.9	2.76E-03	1.02E-02
233	miR-1185-1-3p	0.016251	0.001464	10.9	2.79E-03	1.03E-02
234	miR-455-5p(1)	0.006758	0.027205	-4.0	2.82E-03	1.03E-02
235	miR-19a(1)	0.493642	0.134484	3.7	2.95E-03	1.08E-02
236	miR-125b-1STA	0.053290	0.017534	3.0	2.96E-03	1.08E-02
237	miR-362-5p(1)	0.008557	0.026941	-3.1	3.04E-03	1.10E-02
238	miR-331STAR(1)	0.007900	0.002426	3.3	3.22E-03	1.16E-02
239	miR-10aSTAR(1)	0.009905	0.002125	4.7	3.37E-03	1.21E-02
240	miR-2110(1)	0.001316	0.004034	-3.0	3.44E-03	1.23E-02

	A	B	C	D	E	F
241	miR-590-3p(1)	0.021942	0.006382	3.4	3.49E-03	1.24E-02
242	miR-1910(1)	0.000448	0.000005	43.5	3.54E-03	1.25E-02
243	miR-509-5p(2)	0.000000	0.000330	-64.2	3.54E-03	1.25E-02
244	miR-519a-1-5p	0.000454	0.000099	4.9	3.61E-03	1.27E-02
245	miR-502(1)	0.008206	0.021575	-2.6	3.63E-03	1.27E-02
246	miR-221(1)	2.664722	1.118186	2.4	3.66E-03	1.28E-02
247	miR-19b-1STAR	0.009588	0.003227	3.0	3.78E-03	1.31E-02
248	miR-130a(1)	0.260380	0.700227	-2.7	3.89E-03	1.35E-02
249	miR-2355-3p(1)	0.002032	0.000521	3.8	3.91E-03	1.35E-02
250	miR-1277-5p(1)	0.010056	0.001050	9.3	3.95E-03	1.35E-02
251	miR-346(1)	0.000000	0.000121	-23.8	3.96E-03	1.35E-02
252	miR-184(1)	0.000013	0.000294	-16.2	4.09E-03	1.39E-02
253	miR-510-3p(1)	0.000000	0.000193	-40.8	4.15E-03	1.40E-02
254	miR-34b(1)	0.000055	0.000970	-16.5	4.16E-03	1.40E-02
255	miR-873STAR(1)	0.000010	0.000124	-7.1	4.16E-03	1.40E-02
256	miR-3657(1)	0.000450	0.000047	7.6	4.18E-03	1.40E-02
257	miR-548e(1)	0.003888	0.001281	3.1	4.40E-03	1.46E-02
258	miR-628-5p(1)	0.007195	0.001369	5.3	4.41E-03	1.46E-02
259	miR-429STAR(1)	0.000000	0.000130	-28.6	4.52E-03	1.49E-02
260	miR-99aSTAR(1)	0.001782	0.009615	-5.4	4.56E-03	1.50E-02
261	miR-24-1STAR(1)	0.001513	0.010730	-7.0	4.75E-03	1.56E-02
262	miR-129-2-3p(1)	0.000145	0.001497	-10.3	4.80E-03	1.56E-02
263	miR-30d(1)	0.221080	0.526805	-2.4	4.81E-03	1.56E-02
264	miR-323aSTAR	0.000217	0.000021	7.8	4.82E-03	1.56E-02
265	miR-18a(1)	0.161645	0.043217	3.7	4.88E-03	1.58E-02
266	miR-6720-3p(1)	0.000000	0.000348	-72.3	5.00E-03	1.61E-02
267	miR-885(1)	0.000000	0.000416	-79.8	5.14E-03	1.65E-02
268	miR-1305(1)	0.000000	0.000062	-14.1	5.18E-03	1.66E-02
269	miR-323b(1)	0.003007	0.000613	4.8	5.23E-03	1.66E-02
270	miR-496STAR(1)	0.000127	0.000007	9.3	5.32E-03	1.69E-02

	A	B	C	D	E	F
271	miR-1909(1)	0.000218	0.000023	7.5	5.39E-03	1.70E-02
272	let-7b(1)	0.279693	1.821666	-6.5	5.44E-03	1.71E-02
273	miR-660(1)	0.012819	0.038638	-3.0	5.98E-03	1.87E-02
274	miR-4636-5p(1)	0.000000	0.000244	-50.7	6.07E-03	1.89E-02
275	miR-361-5p(1)	0.145338	0.042867	3.4	6.08E-03	1.89E-02
276	miR-4725-3p(1)	0.000123	0.000006	9.3	6.30E-03	1.96E-02
277	miR-129-5p(2)	0.000126	0.000526	-4.2	6.39E-03	1.98E-02
278	miR-539(1)	0.022481	0.005899	3.8	6.74E-03	2.08E-02
279	miR-3677-3p(1)	0.000253	0.000035	8.0	7.06E-03	2.17E-02
280	let-7a(3)	2.578281	5.578450	-2.2	7.14E-03	2.18E-02
281	miR-135a(2)	0.000080	0.000312	-3.6	7.27E-03	2.21E-02
282	miR-15bSTAR(1)	0.016965	0.004853	3.5	7.28E-03	2.21E-02
283	miR-525-5p(1)	0.000591	0.000116	4.7	7.36E-03	2.23E-02
284	miR-1226STAR	0.000282	0.000020	11.2	7.75E-03	2.34E-02
285	miR-17(1)	0.983182	0.426612	2.3	7.80E-03	2.34E-02
286	miR-1295(1)	0.000000	0.000231	-47.1	8.00E-03	2.39E-02
287	miR-3690(2)	0.000000	0.000122	-23.6	8.24E-03	2.46E-02
288	miR-193a-3p(1)	0.604687	0.137176	4.4	8.66E-03	2.57E-02
289	miR-542(1)	0.029882	0.117700	-3.9	8.72E-03	2.58E-02
290	miR-584(1)	0.008401	0.001676	5.0	8.80E-03	2.60E-02
291	miR-1294STAR	0.000246	0.000028	7.1	8.99E-03	2.64E-02
292	miR-26b(1)	0.532594	1.258689	-2.4	9.14E-03	2.68E-02
293	miR-30c-1STAR	0.001202	0.003174	-2.6	9.34E-03	2.73E-02
294	miR-26a(2)	2.024934	5.510154	-2.7	9.37E-03	2.73E-02
295	miR-181b(2)	0.235274	0.088967	2.6	9.61E-03	2.79E-02
296	miR-29aSTAR(1)	0.012281	0.002069	6.0	9.84E-03	2.84E-02
297	miR-582(1)	0.025814	0.004051	6.4	1.03E-02	2.97E-02
298	miR-194(2)	0.007174	0.019662	-2.7	1.07E-02	3.08E-02
299	miR-493-3p(1)	0.002714	0.009495	-3.5	1.08E-02	3.10E-02
300	miR-1245-5p(1)	0.000000	0.000067	-15.8	1.09E-02	3.10E-02

	A	B	C	D	E	F
301	miR-105(2)	0.000000	0.000053	-13.4	1.13E-02	3.22E-02
302	miR-33bSTAR(1)	0.001643	0.000303	5.5	1.14E-02	3.23E-02
303	miR-582STAR(1)	0.009124	0.001879	4.9	1.15E-02	3.23E-02
304	miR-3174(1)	0.000248	0.000023	9.0	1.15E-02	3.23E-02
305	miR-181b-1STAR	0.001622	0.000489	3.2	1.16E-02	3.25E-02
306	miR-543(1)	0.014369	0.004375	3.3	1.19E-02	3.33E-02
307	miR-491(1)	0.007953	0.002142	3.7	1.25E-02	3.47E-02
308	miR-499STAR(1)	0.000049	0.000444	-9.1	1.25E-02	3.47E-02
309	miR-503(1)	0.057867	0.021247	2.7	1.26E-02	3.48E-02
310	miR-545-3p(1)	0.008545	0.001364	6.3	1.27E-02	3.50E-02
311	miR-3192(1)	0.000123	0.000006	12.7	1.28E-02	3.51E-02
312	miR-3938(1)	0.000177	0.000006	17.5	1.30E-02	3.55E-02
313	miR-296-3p(1)	0.000348	0.001093	-3.1	1.33E-02	3.64E-02
314	miR-489(1)	0.000016	0.000312	-14.8	1.35E-02	3.68E-02
315	miR-1304(1)	0.001655	0.000189	8.0	1.38E-02	3.74E-02
316	miR-627-5p(1)	0.000992	0.003777	-3.8	1.40E-02	3.80E-02
317	miR-140(1)	0.127782	0.330303	-2.6	1.41E-02	3.80E-02
318	miR-4746(1)	0.000355	0.000051	5.9	1.43E-02	3.83E-02
319	miR-345(1)	0.032577	0.016249	2.0	1.44E-02	3.86E-02
320	miR-450a(2)	0.009224	0.035589	-3.9	1.46E-02	3.90E-02
321	miR-128-1STAR	0.000288	0.000056	5.2	1.54E-02	4.10E-02
322	miR-517b(1)	0.000940	0.000318	3.1	1.55E-02	4.12E-02
323	miR-519dSTAR	0.000105	0.000008	7.2	1.62E-02	4.28E-02
324	miR-1283-5p(2)	0.001007	0.000257	5.1	1.66E-02	4.39E-02
325	miR-526b-5p(1)	0.000714	0.000218	3.5	1.67E-02	4.39E-02
326	miR-642-3p(1)	0.000000	0.000130	-24.6	1.70E-02	4.46E-02
327	miR-20a(1)	0.376151	0.141330	2.7	1.71E-02	4.47E-02
328	miR-15b(1)	0.210764	0.083943	2.5	1.76E-02	4.60E-02
329	miR-1276(1)	0.000074	0.000003	8.2	1.77E-02	4.60E-02
330	miR-301bSTAR	0.000182	0.000017	7.9	1.89E-02	4.91E-02

	A	B	C	D	E	F
331	miR-342(1)	0.046562	0.084378	-1.8	1.92E-02	4.96E-02
332	miR-374a(1)	0.296594	0.092976	3.2	1.93E-02	4.96E-02
333	miR-362-3p(1)	0.003029	0.010505	-3.5	1.96E-02	5.04E-02
334	miR-218(2)	0.051272	0.112763	-2.2	2.02E-02	5.16E-02
335	miR-519a-2-5p	0.000584	0.000121	5.6	2.11E-02	5.39E-02
336	miR-2355-5p(1)	0.001640	0.000302	5.1	2.14E-02	5.44E-02
337	miR-541-3p(1)	0.000235	0.000046	4.1	2.15E-02	5.46E-02
338	miR-135bSTAR	0.000013	0.000182	-10.1	2.24E-02	5.64E-02
339	miR-136-5p(1)	0.018691	0.064905	-3.5	2.24E-02	5.64E-02
340	miR-3934STAR	0.000190	0.000033	4.9	2.24E-02	5.64E-02
341	miR-767(1)	0.000000	0.000029	-8.4	2.25E-02	5.64E-02
342	miR-26bSTAR(1)	0.000693	0.003454	-5.0	2.26E-02	5.66E-02
343	miR-34cSTAR(1)	0.000010	0.000173	-10.0	2.39E-02	5.97E-02
344	miR-379STAR(1)	0.003091	0.000902	3.4	2.41E-02	6.00E-02
345	miR-1294(1)	0.000466	0.000134	3.4	2.44E-02	6.04E-02
346	miR-363STAR(1)	0.000010	0.000080	-5.1	2.49E-02	6.14E-02
347	miR-1976(1)	0.000016	0.000133	-6.4	2.49E-02	6.14E-02
348	miR-548k(1)	0.001057	0.000437	2.4	2.57E-02	6.31E-02
349	miR-425STAR(1)	0.004764	0.010742	-2.3	2.77E-02	6.78E-02
350	let-7f(2)	2.809127	6.594766	-2.3	2.79E-02	6.82E-02
351	miR-671-5p(1)	0.049816	0.014035	3.5	2.81E-02	6.85E-02
352	miR-508STAR(1)	0.000000	0.000146	-30.3	2.96E-02	7.19E-02
353	miR-1251(1)	0.000033	0.000000	6.8	3.03E-02	7.31E-02
354	miR-515(2)	0.005973	0.001635	3.7	3.03E-02	7.31E-02
355	miR-518e-5p(5)	0.000800	0.000206	4.0	3.09E-02	7.45E-02
356	miR-423-5p(1)	0.026416	0.057746	-2.2	3.21E-02	7.71E-02
357	miR-30c-2STAR	0.022960	0.006750	3.4	3.22E-02	7.72E-02
358	miR-128(2)	0.048636	0.023197	2.1	3.25E-02	7.75E-02
359	miR-3175(1)	0.000153	0.000011	9.7	3.27E-02	7.78E-02
360	miR-29c(1)	0.040243	0.110747	-2.7	3.42E-02	8.13E-02

	A	B	C	D	E	F
361	miR-485-3p(1)	0.003012	0.001218	2.5	3.44E-02	8.14E-02
362	miR-486STAR(1)	0.000080	0.000522	-6.5	3.55E-02	8.38E-02
363	miR-625-3p(1)	0.006501	0.002604	2.5	3.56E-02	8.38E-02
364	miR-942STAR(1)	0.000470	0.000095	6.0	3.68E-02	8.63E-02
365	miR-125b-2STA	0.025673	0.048855	-1.9	3.83E-02	8.95E-02
366	miR-2681(1)	0.000016	0.000099	-5.2	3.83E-02	8.95E-02
367	miR-561STAR(1)	0.000452	0.000096	4.2	3.92E-02	9.14E-02
368	miR-497STAR(1)	0.000678	0.003297	-4.8	4.00E-02	9.28E-02
369	miR-204STAR(1)	0.000010	0.000115	-7.0	4.05E-02	9.38E-02
370	miR-208a(1)	0.000029	0.000636	-18.1	4.14E-02	9.55E-02
371	miR-3138-3p(1)	0.000214	0.000029	5.9	4.16E-02	9.59E-02
372	miR-4766(1)	0.000441	0.000068	5.7	4.22E-02	9.69E-02
373	miR-2110STAR	0.000048	0.000354	-7.0	4.32E-02	9.90E-02
374	miR-411STAR(1)	0.006913	0.001595	4.3	4.52E-02	1.03E-01
375	miR-92a-1STAF	0.001474	0.000571	2.6	4.53E-02	1.03E-01
376	miR-134(1)	0.048199	0.022972	2.1	4.56E-02	1.04E-01
377	miR-301aSTAR	0.000725	0.000148	4.5	4.58E-02	1.04E-01
378	miR-642-5p(1)	0.000000	0.000107	-20.8	4.73E-02	1.07E-01
379	miR-323a(1)	0.009655	0.002540	3.8	4.74E-02	1.07E-01
380	miR-521(2)	0.000623	0.000208	3.5	4.82E-02	1.08E-01
381	miR-4690(1)	0.000029	0.000130	-4.1	4.84E-02	1.09E-01
382	miR-1249(1)	0.000094	0.000595	-6.1	4.85E-02	1.09E-01
383	miR-139STAR(1)	0.001880	0.005757	-3.1	4.88E-02	1.09E-01
384	miR-3200STAR	0.000322	0.000083	3.5	4.92E-02	1.10E-01
385	miR-665STAR(1)	0.000019	0.000117	-4.3	4.94E-02	1.10E-01
386	miR-2467(1)	0.000078	0.000004	8.3	5.04E-02	1.11E-01
387	miR-652STAR(1)	0.001036	0.004870	-4.7	5.11E-02	1.13E-01
388	miR-520g-5p(2)	0.000045	0.000000	9.6	5.13E-02	1.13E-01
389	miR-544-3p(1)	0.001375	0.000345	3.7	5.16E-02	1.13E-01
390	let-7gSTAR(1)	0.000629	0.001791	-2.8	5.22E-02	1.14E-01

	A	B	C	D	E	F
391	miR-365-2STAR	0.000888	0.000187	4.9	5.29E-02	1.15E-01
392	miR-577(1)	0.000016	0.000088	-4.7	5.38E-02	1.17E-01
393	miR-212-3p(1)	0.002130	0.000972	2.2	5.39E-02	1.17E-01
394	miR-99bSTAR(1)	0.012171	0.006728	1.8	5.49E-02	1.19E-01
395	miR-3177(1)	0.000238	0.000065	3.6	5.56E-02	1.20E-01
396	miR-1908-3p(1)	0.000132	0.000010	7.9	5.58E-02	1.20E-01
397	miR-27bSTAR(1)	0.010832	0.025288	-2.3	5.62E-02	1.21E-01
398	miR-676(1)	0.000057	0.000290	-5.4	5.74E-02	1.23E-01
399	miR-494(1)	0.067378	0.018462	3.6	5.75E-02	1.23E-01
400	miR-18bSTAR(1)	0.000000	0.000024	-6.6	5.75E-02	1.23E-01
401	miR-3928(1)	0.000052	0.000280	-4.9	5.82E-02	1.24E-01
402	miR-374b(1)	0.153061	0.070434	2.2	6.10E-02	1.29E-01
403	let-7c(1)	0.339364	1.074958	-3.2	6.11E-02	1.29E-01
404	miR-219-5p(2)	0.000233	0.001526	-6.5	6.16E-02	1.30E-01
405	miR-20aSTAR(1)	0.015613	0.007158	2.2	6.35E-02	1.34E-01
406	miR-423-3p(1)	0.134014	0.242042	-1.8	6.36E-02	1.34E-01
407	miR-556-3p(1)	0.000522	0.000097	5.8	6.44E-02	1.35E-01
408	miR-570-5p(1)	0.000101	0.000348	-3.3	6.61E-02	1.38E-01
409	miR-1303(1)	0.000477	0.000172	2.7	6.65E-02	1.39E-01
410	miR-376bSTAR	0.001577	0.003442	-2.2	6.68E-02	1.39E-01
411	miR-5094-5p(1)	0.000091	0.000006	8.9	7.05E-02	1.46E-01
412	miR-139(1)	0.013133	0.029298	-2.2	7.06E-02	1.46E-01
413	miR-125aSTAR	0.011450	0.004496	2.6	7.12E-02	1.47E-01
414	miR-2276-3p(1)	0.000204	0.000031	5.7	7.18E-02	1.48E-01
415	miR-1468(1)	0.000127	0.000497	-3.8	7.20E-02	1.48E-01
416	miR-376a-A6G	0.035048	0.140231	-4.0	7.21E-02	1.48E-01
417	miR-372(1)	0.000049	0.000242	-5.3	7.28E-02	1.49E-01
418	miR-545-5p(1)	0.001633	0.000553	2.9	7.31E-02	1.49E-01
419	miR-135a-2STA	0.000000	0.000028	-7.5	7.35E-02	1.50E-01
420	miR-579-5p(1)	0.000505	0.000127	4.0	7.38E-02	1.50E-01

	A	B	C	D	E	F
421	miR-103(2)	3.522084	1.739549	2.0	7.42E-02	1.50E-01
422	miR-1266(1)	0.000161	0.000035	5.0	7.44E-02	1.51E-01
423	miR-376c(1)	0.141660	0.403952	-2.9	7.53E-02	1.52E-01
424	miR-1180(1)	0.004307	0.002373	1.8	7.90E-02	1.59E-01
425	miR-449a(1)	0.000722	0.000257	2.9	7.92E-02	1.59E-01
426	miR-3664-3p(1)	0.000000	0.000063	-13.5	7.94E-02	1.59E-01
427	miR-16-1STAR(1)	0.006864	0.002595	2.6	8.08E-02	1.62E-01
428	miR-3612-5p(1)	0.000000	0.000048	-8.9	8.12E-02	1.62E-01
429	miR-1228-3p(1)	0.000000	0.000055	-12.7	8.15E-02	1.62E-01
430	miR-579-3p(1)	0.000524	0.000137	3.9	8.31E-02	1.65E-01
431	miR-33aSTAR(1)	0.001459	0.003343	-2.3	8.37E-02	1.66E-01
432	miR-556-5p(1)	0.001001	0.000231	4.2	8.45E-02	1.67E-01
433	miR-3605-3p(1)	0.000091	0.000402	-4.1	8.48E-02	1.67E-01
434	miR-29a(1)	1.933365	0.747467	2.6	8.55E-02	1.68E-01
435	let-7dSTAR(1)	0.010052	0.017735	-1.8	8.70E-02	1.70E-01
436	miR-1912-5p(1)	0.000069	0.000004	7.8	8.70E-02	1.70E-01
437	miR-345STAR(1)	0.000410	0.000094	4.0	8.73E-02	1.70E-01
438	miR-3155-5p(1)	0.000090	0.000021	3.6	8.73E-02	1.70E-01
439	miR-197(1)	0.015544	0.026610	-1.7	8.85E-02	1.72E-01
440	miR-769(1)	0.055396	0.033268	1.7	8.88E-02	1.72E-01
441	miR-342STAR(1)	0.000970	0.002756	-2.8	8.98E-02	1.74E-01
442	let-7g(1)	0.663441	1.548657	-2.3	9.03E-02	1.74E-01
443	miR-16(2)	1.158165	0.485645	2.4	9.07E-02	1.75E-01
444	miR-324-3p(1)	0.010318	0.020069	-1.9	9.12E-02	1.75E-01
445	miR-1298(1)	0.000000	0.000023	-6.6	9.14E-02	1.75E-01
446	miR-668(1)	0.000056	0.000180	-3.2	9.40E-02	1.80E-01
447	miR-337(1)	0.008074	0.018210	-2.3	9.64E-02	1.84E-01
448	miR-365-1STAR(1)	0.000166	0.000652	-3.7	9.69E-02	1.85E-01
449	miR-151-5p(1)	0.318526	0.193463	1.6	9.71E-02	1.85E-01
450	miR-655STAR(1)	0.000102	0.000028	3.0	1.00E-01	1.90E-01

	A	B	C	D	E	F
451	miR-302a-5p(1)	0.000013	0.000000	3.8	1.01E-01	1.90E-01
452	miR-376cSTAR	0.001934	0.003720	-1.9	1.01E-01	1.92E-01
453	miR-636STAR(1)	0.000000	0.000043	-8.0	1.02E-01	1.92E-01
454	miR-376a-3p(2)	0.026818	0.011717	2.3	1.02E-01	1.92E-01
455	miR-526b-3p(1)	0.000459	0.000168	2.8	1.03E-01	1.94E-01
456	miR-889STAR(1)	0.000141	0.000040	3.0	1.04E-01	1.94E-01
457	miR-138-1STAR	0.000035	0.000135	-3.0	1.04E-01	1.94E-01
458	miR-32STAR(1)	0.003157	0.001283	2.5	1.04E-01	1.94E-01
459	miR-3074-5p(1)	0.000041	0.000187	-4.0	1.05E-01	1.95E-01
460	miR-93(1)	0.451159	0.300083	1.5	1.07E-01	1.99E-01
461	miR-643(1)	0.000276	0.000115	2.2	1.09E-01	2.02E-01
462	miR-939-5p(1)	0.000259	0.000066	3.4	1.09E-01	2.02E-01
463	miR-1296(1)	0.000953	0.001828	-1.9	1.11E-01	2.04E-01
464	miR-518d-5p(5)	0.000471	0.000157	3.1	1.13E-01	2.08E-01
465	miR-95STAR(1)	0.000016	0.000114	-6.1	1.13E-01	2.08E-01
466	miR-191STAR(1)	0.001090	0.000335	3.1	1.14E-01	2.08E-01
467	miR-505STAR(1)	0.000990	0.000500	2.0	1.14E-01	2.09E-01
468	miR-766STAR(1)	0.000225	0.000053	3.6	1.15E-01	2.09E-01
469	miR-140STAR(1)	0.030790	0.062430	-2.0	1.15E-01	2.10E-01
470	miR-1908-5p(1)	0.000367	0.000082	3.8	1.16E-01	2.10E-01
471	miR-23a(1)	1.019735	1.752847	-1.7	1.16E-01	2.10E-01
472	miR-431-3p(1)	0.002131	0.001099	1.9	1.18E-01	2.13E-01
473	miR-1271(1)	0.003610	0.006362	-1.8	1.20E-01	2.16E-01
474	let-7d(1)	0.224539	0.535645	-2.4	1.21E-01	2.18E-01
475	miR-1228-5p(1)	0.000000	0.000034	-8.6	1.24E-01	2.23E-01
476	miR-3136(1)	0.000042	0.000135	-2.8	1.25E-01	2.23E-01
477	miR-758(1)	0.005289	0.002915	1.8	1.26E-01	2.26E-01
478	miR-539STAR(1)	0.002048	0.001086	1.9	1.27E-01	2.27E-01
479	let-7iSTAR(1)	0.008483	0.015868	-1.9	1.28E-01	2.27E-01
480	miR-19b-2STAR	0.000000	0.000029	-7.8	1.28E-01	2.28E-01

	A	B	C	D	E	F
481	miR-660STAR(1)	0.000218	0.000695	-3.1	1.29E-01	2.29E-01
482	miR-520f-5p(1)	0.000055	0.000020	5.2	1.36E-01	2.40E-01
483	miR-3194-3p(1)	0.000338	0.000115	2.6	1.36E-01	2.41E-01
484	miR-92bSTAR(1)	0.001097	0.000639	1.7	1.37E-01	2.42E-01
485	miR-1284-3p(1)	0.000114	0.000016	4.8	1.38E-01	2.43E-01
486	miR-552-3p(1)	0.000000	0.000033	-8.0	1.41E-01	2.48E-01
487	miR-3909(1)	0.000653	0.000212	3.2	1.41E-01	2.48E-01
488	miR-127(1)	0.123908	0.312605	-2.5	1.42E-01	2.48E-01
489	miR-136-3p(1)	0.014897	0.034857	-2.3	1.43E-01	2.49E-01
490	miR-433STAR(1)	0.000674	0.000288	2.3	1.43E-01	2.49E-01
491	miR-147(1)	0.000608	0.001994	-3.2	1.43E-01	2.49E-01
492	miR-181cSTAR(1)	0.003584	0.006388	-1.8	1.45E-01	2.51E-01
493	miR-1179(1)	0.000342	0.000134	2.3	1.45E-01	2.51E-01
494	miR-421STAR(1)	0.000172	0.000041	3.5	1.45E-01	2.51E-01
495	miR-485-5p(1)	0.001968	0.005173	-2.6	1.45E-01	2.51E-01
496	miR-370STAR(1)	0.001179	0.000643	1.8	1.46E-01	2.51E-01
497	miR-17STAR(1)	0.138607	0.089634	1.5	1.46E-01	2.51E-01
498	miR-520e-5p(1)	0.000020	0.000000	4.0	1.48E-01	2.53E-01
499	miR-25STAR(1)	0.001305	0.000434	3.0	1.51E-01	2.59E-01
500	miR-519e-3p(1)	0.000080	0.000015	3.8	1.53E-01	2.61E-01
501	miR-330STAR(1)	0.001733	0.001091	1.6	1.53E-01	2.61E-01
502	miR-186STAR(1)	0.000649	0.001252	-1.9	1.54E-01	2.62E-01
503	miR-574-5p(1)	0.030324	0.019050	1.6	1.54E-01	2.62E-01
504	miR-939-3p(1)	0.000016	0.000063	-3.7	1.55E-01	2.63E-01
505	miR-4802-5p(1)	0.000000	0.000026	-7.0	1.56E-01	2.64E-01
506	miR-146a(1)	0.129693	0.260436	-2.0	1.58E-01	2.66E-01
507	let-7eSTAR(1)	0.002573	0.001491	1.7	1.58E-01	2.66E-01
508	miR-1306-5p(1)	0.000396	0.000743	-1.9	1.59E-01	2.66E-01
509	miR-1284-5p(1)	0.000078	0.000013	4.0	1.59E-01	2.66E-01
510	miR-517STAR(3)	0.000114	0.000051	4.1	1.59E-01	2.66E-01

	A	B	C	D	E	F
511	miR-454STAR(1	0.000370	0.000150	2.4	1.61E-01	2.68E-01
512	miR-518c-5p(1	0.000150	0.000063	3.2	1.61E-01	2.69E-01
513	miR-527STAR(1	0.000477	0.000118	4.2	1.63E-01	2.70E-01
514	miR-542STAR(1	0.002082	0.005009	-2.4	1.64E-01	2.72E-01
515	miR-605-5p(1)	0.000067	0.000026	2.2	1.64E-01	2.72E-01
516	miR-3677-5p(1	0.000139	0.000034	3.3	1.64E-01	2.72E-01
517	miR-147STAR(1	0.000155	0.000069	2.3	1.68E-01	2.77E-01
518	miR-33a(1)	0.022752	0.036658	-1.6	1.69E-01	2.78E-01
519	let-7f-2STAR(1	0.000878	0.001577	-1.8	1.69E-01	2.78E-01
520	miR-3679(1)	0.000265	0.000105	2.5	1.70E-01	2.78E-01
521	miR-493-5p(1)	0.007226	0.014231	-2.0	1.70E-01	2.79E-01
522	miR-551a(1)	0.000812	0.000402	2.0	1.72E-01	2.81E-01
523	miR-324-5p(1)	0.025220	0.043546	-1.7	1.73E-01	2.82E-01
524	miR-4802-3p(1	0.000000	0.000016	-5.1	1.73E-01	2.82E-01
525	miR-494STAR(1	0.000211	0.000079	2.4	1.75E-01	2.85E-01
526	miR-410STAR(1	0.000127	0.000035	3.0	1.77E-01	2.86E-01
527	miR-671-3p(1)	0.001653	0.000814	2.0	1.78E-01	2.87E-01
528	miR-874(1)	0.036953	0.022289	1.7	1.78E-01	2.87E-01
529	miR-106b(1)	0.708374	0.454747	1.6	1.80E-01	2.90E-01
530	miR-4789-3p(1	0.000019	0.000082	-3.2	1.80E-01	2.90E-01
531	miR-432STAR(1	0.000071	0.000187	-2.6	1.82E-01	2.92E-01
532	miR-3145-3p(1	0.000131	0.000052	2.4	1.83E-01	2.94E-01
533	miR-548bSTAR	0.000586	0.000198	2.7	1.86E-01	2.97E-01
534	miR-1278(1)	0.000112	0.000028	3.3	1.86E-01	2.97E-01
535	let-7a-1STAR(2	0.009506	0.020190	-2.1	1.90E-01	3.03E-01
536	miR-146bSTAR	0.000264	0.000851	-3.1	1.92E-01	3.06E-01
537	miR-192STAR(1	0.000055	0.000145	-2.6	1.93E-01	3.06E-01
538	miR-450a-1STA	0.000981	0.002140	-2.2	1.93E-01	3.06E-01
539	miR-433(1)	0.001838	0.003524	-1.9	1.95E-01	3.09E-01
540	miR-181a-1STA	0.031339	0.015151	2.1	1.98E-01	3.12E-01

	A	B	C	D	E	F
541	miR-487a-5p(1)	0.000461	0.001042	-2.2	1.98E-01	3.12E-01
542	miR-628-3p(1)	0.001856	0.000862	2.2	2.00E-01	3.15E-01
543	miR-3130-3p(1)	0.000013	0.000059	-3.7	2.01E-01	3.16E-01
544	miR-625-5p(1)	0.006680	0.003681	1.8	2.03E-01	3.18E-01
545	miR-551aSTAR	0.000013	0.000000	3.8	2.05E-01	3.21E-01
546	miR-187STAR(1)	0.000000	0.000020	-6.0	2.08E-01	3.25E-01
547	miR-597(1)	0.000152	0.000437	-2.9	2.09E-01	3.27E-01
548	miR-22(1)	3.122319	1.986774	1.6	2.10E-01	3.27E-01
549	miR-27aSTAR(1)	0.049625	0.028133	1.8	2.11E-01	3.28E-01
550	miR-22STAR(1)	0.019617	0.009502	2.1	2.12E-01	3.28E-01
551	miR-34bSTAR(1)	0.000032	0.000138	-3.6	2.13E-01	3.29E-01
552	miR-544-5p(1)	0.001066	0.000534	2.0	2.16E-01	3.34E-01
553	miR-92b(1)	0.009813	0.006344	1.5	2.21E-01	3.40E-01
554	miR-3691(1)	0.000168	0.000050	3.0	2.21E-01	3.40E-01
555	miR-224STAR(1)	0.002330	0.005748	-2.5	2.22E-01	3.40E-01
556	miR-3064-3p(1)	0.000022	0.000078	-2.6	2.22E-01	3.40E-01
557	miR-3130-5p(1)	0.000054	0.000165	-2.8	2.24E-01	3.43E-01
558	miR-519a-3p(2)	0.002423	0.001375	1.8	2.31E-01	3.53E-01
559	miR-212-5p(1)	0.000793	0.000483	1.6	2.36E-01	3.60E-01
560	miR-412(1)	0.002648	0.001327	2.0	2.41E-01	3.67E-01
561	miR-641-5p(1)	0.000887	0.000446	2.0	2.44E-01	3.70E-01
562	miR-561(1)	0.000246	0.000444	-1.8	2.55E-01	3.87E-01
563	miR-1264(1)	0.000000	0.000031	-4.8	2.55E-01	3.87E-01
564	miR-454(1)	0.012588	0.008294	1.5	2.56E-01	3.87E-01
565	miR-517a(2)	0.003129	0.002021	1.6	2.57E-01	3.88E-01
566	miR-24(2)	4.404328	6.159087	-1.4	2.58E-01	3.88E-01
567	miR-18b(1)	0.002198	0.001321	1.7	2.58E-01	3.88E-01
568	miR-1307-3p(1)	0.021928	0.013433	1.6	2.59E-01	3.89E-01
569	miR-331(1)	0.017247	0.025131	-1.5	2.59E-01	3.89E-01
570	miR-766(1)	0.002302	0.001239	1.9	2.62E-01	3.92E-01

	A	B	C	D	E	F
571	miR-195(1)	0.135347	0.280148	-2.1	2.64E-01	3.94E-01
572	let-7cSTAR(1)	0.001897	0.001228	1.5	2.68E-01	3.99E-01
573	miR-520a-5p(1)	0.000561	0.000300	2.0	2.70E-01	4.02E-01
574	miR-518f-3p(1)	0.000168	0.000290	-1.6	2.71E-01	4.03E-01
575	miR-4804STAR	0.000380	0.000156	2.4	2.72E-01	4.04E-01
576	miR-1911(1)	0.000000	0.000009	-3.0	2.73E-01	4.04E-01
577	miR-570-3p(1)	0.002235	0.001044	2.2	2.88E-01	4.26E-01
578	miR-365(2)	0.044641	0.075080	-1.7	2.89E-01	4.27E-01
579	miR-499(1)	0.001097	0.002963	-2.7	2.90E-01	4.27E-01
580	miR-26a-2STAR	0.002184	0.004187	-1.9	2.91E-01	4.28E-01
581	miR-656(1)	0.006564	0.004080	1.6	2.93E-01	4.30E-01
582	miR-1537(1)	0.000079	0.000157	-2.1	2.96E-01	4.33E-01
583	miR-30c(2)	0.261328	0.359491	-1.4	2.97E-01	4.34E-01
584	miR-194-2STAR	0.000045	0.000115	-2.1	2.99E-01	4.36E-01
585	miR-495(1)	0.042884	0.027856	1.5	2.99E-01	4.36E-01
586	miR-181a-2STA	0.010723	0.018239	-1.7	3.02E-01	4.40E-01
587	miR-3919-3p(1)	0.000025	0.000007	2.3	3.05E-01	4.43E-01
588	miR-10a(1)	0.300234	0.169668	1.8	3.05E-01	4.43E-01
589	miR-381STAR(1)	0.000517	0.001014	-1.9	3.07E-01	4.45E-01
590	miR-33b(1)	0.003375	0.006140	-1.8	3.08E-01	4.45E-01
591	miR-1255a-5p(1)	0.000674	0.000419	1.7	3.12E-01	4.51E-01
592	miR-432(1)	0.011489	0.007788	1.5	3.13E-01	4.51E-01
593	miR-30e(1)	0.532737	0.816467	-1.5	3.15E-01	4.53E-01
594	miR-15a(1)	0.102311	0.156179	-1.5	3.22E-01	4.62E-01
595	miR-3146(1)	0.000094	0.000059	2.0	3.22E-01	4.62E-01
596	miR-340STAR(1)	0.002022	0.001439	1.4	3.23E-01	4.62E-01
597	miR-10b(1)	0.546615	1.007341	-1.8	3.24E-01	4.62E-01
598	miR-519c-3p(1)	0.000136	0.000087	1.8	3.28E-01	4.68E-01
599	miR-3613(1)	0.010988	0.015455	-1.4	3.30E-01	4.69E-01
600	miR-371STAR(1)	0.000000	0.000009	-3.5	3.30E-01	4.69E-01

	A	B	C	D	E	F
601	miR-29cSTAR(1)	0.004495	0.007987	-1.8	3.31E-01	4.69E-01
602	miR-411(1)	0.056897	0.032912	1.7	3.32E-01	4.70E-01
603	miR-122(1)	0.000254	0.000138	1.7	3.38E-01	4.78E-01
604	miR-100(1)	2.085332	1.357119	1.5	3.46E-01	4.88E-01
605	miR-381(1)	0.099865	0.052020	1.9	3.47E-01	4.89E-01
606	miR-4772-3p(1)	0.000058	0.000107	-1.8	3.49E-01	4.90E-01
607	miR-5193(1)	0.000013	0.000047	-2.4	3.49E-01	4.90E-01
608	miR-624-3p(1)	0.000745	0.000366	2.0	3.51E-01	4.92E-01
609	miR-769STAR(1)	0.001671	0.001108	1.5	3.53E-01	4.94E-01
610	miR-130aSTAR	0.001374	0.002516	-1.8	3.54E-01	4.94E-01
611	miR-330(1)	0.012319	0.009389	1.3	3.54E-01	4.94E-01
612	miR-605-3p(1)	0.000056	0.000131	-2.3	3.55E-01	4.94E-01
613	miR-526a-1-3p	0.000000	0.000026	-3.5	3.56E-01	4.95E-01
614	miR-887STAR(1)	0.000419	0.000216	1.9	3.57E-01	4.95E-01
615	miR-2116STAR	0.000111	0.000043	2.2	3.63E-01	5.03E-01
616	miR-543STAR(1)	0.000657	0.000405	1.6	3.64E-01	5.04E-01
617	miR-186(1)	0.587860	0.435912	1.3	3.67E-01	5.07E-01
618	miR-548b(1)	0.000366	0.000534	-1.5	3.68E-01	5.08E-01
619	miR-452STAR(1)	0.019232	0.013916	1.4	3.69E-01	5.08E-01
620	miR-93STAR(1)	0.004309	0.005906	-1.4	3.70E-01	5.09E-01
621	miR-105STAR(2)	0.000000	0.000008	-2.9	3.76E-01	5.16E-01
622	miR-30bSTAR(1)	0.000819	0.001474	-1.8	3.81E-01	5.22E-01
623	miR-3157-5p(1)	0.000048	0.000119	-2.3	3.87E-01	5.30E-01
624	miR-656STAR(1)	0.000196	0.000104	1.7	3.91E-01	5.34E-01
625	miR-215(1)	0.000381	0.000782	-1.9	3.92E-01	5.35E-01
626	miR-409-5p(1)	0.011837	0.008299	1.4	3.94E-01	5.36E-01
627	miR-2114(1)	0.000078	0.000151	-1.9	3.97E-01	5.40E-01
628	miR-3620-3p(1)	0.000180	0.000097	1.8	3.98E-01	5.40E-01
629	miR-450bSTAR	0.000117	0.000199	-1.8	3.99E-01	5.40E-01
630	miR-518e-3p(1)	0.001339	0.000881	1.6	4.01E-01	5.43E-01

	A	B	C	D	E	F
631	miR-1287STAR	0.000328	0.000628	-1.9	4.02E-01	5.43E-01
632	miR-767STAR(1	0.000000	0.000007	-2.7	4.03E-01	5.43E-01
633	miR-484(1)	0.027275	0.021025	1.3	4.03E-01	5.43E-01
634	miR-874STAR(1	0.001175	0.001778	-1.5	4.03E-01	5.43E-01
635	miR-450a-2STA	0.000663	0.001245	-1.9	4.04E-01	5.43E-01
636	miR-3613STAR	0.001037	0.001825	-1.7	4.05E-01	5.43E-01
637	miR-519d(1)	0.000668	0.000522	1.3	4.07E-01	5.44E-01
638	miR-185(1)	0.081003	0.106179	-1.3	4.08E-01	5.45E-01
639	miR-1269(1)	0.000000	0.000023	-3.3	4.14E-01	5.52E-01
640	miR-181c(1)	0.022474	0.031415	-1.4	4.14E-01	5.52E-01
641	miR-629(1)	0.010692	0.014654	-1.4	4.15E-01	5.52E-01
642	miR-424STAR(1	0.012958	0.020505	-1.6	4.16E-01	5.52E-01
643	miR-32(1)	0.033952	0.022541	1.5	4.20E-01	5.57E-01
644	miR-519e-5p(1	0.000236	0.000103	2.0	4.23E-01	5.61E-01
645	miR-2277-3p(1	0.000025	0.000055	-2.1	4.25E-01	5.62E-01
646	miR-518c-3p(1	0.001771	0.001287	1.4	4.26E-01	5.62E-01
647	miR-24-2STAR(	0.055577	0.039122	1.4	4.31E-01	5.68E-01
648	miR-942(1)	0.001052	0.000797	1.3	4.32E-01	5.68E-01
649	miR-487b(1)	0.020573	0.028308	-1.4	4.33E-01	5.68E-01
650	miR-1307-5p(1	0.036772	0.048654	-1.3	4.33E-01	5.68E-01
651	miR-190b(1)	0.000710	0.001023	-1.4	4.34E-01	5.68E-01
652	miR-455-3p(1)	0.078980	0.103256	-1.3	4.34E-01	5.68E-01
653	miR-181a(2)	0.558622	0.714227	-1.3	4.37E-01	5.69E-01
654	miR-503STAR(1	0.000440	0.000302	1.4	4.37E-01	5.69E-01
655	miR-329STAR(2	0.000212	0.000139	1.5	4.38E-01	5.69E-01
656	miR-302d(1)	0.000000	0.000005	-2.0	4.38E-01	5.69E-01
657	miR-452(1)	0.102298	0.083638	1.2	4.40E-01	5.71E-01
658	miR-370(1)	0.007455	0.010611	-1.4	4.50E-01	5.83E-01
659	miR-3065-3p(1	0.000152	0.000265	-1.8	4.53E-01	5.86E-01
660	miR-744(1)	0.035580	0.028298	1.3	4.55E-01	5.88E-01

	A	B	C	D	E	F
661	miR-524(1)	0.000802	0.000567	1.5	4.60E-01	5.93E-01
662	miR-98STAR(1)	0.001770	0.001342	1.3	4.65E-01	5.98E-01
663	miR-518b-5p(1)	0.000025	0.000007	2.3	4.65E-01	5.98E-01
664	miR-654STAR(1)	0.004673	0.005910	-1.3	4.67E-01	6.00E-01
665	miR-1912-3p(1)	0.000000	0.000005	-2.1	4.69E-01	6.02E-01
666	miR-134STAR(1)	0.000197	0.000291	-1.5	4.72E-01	6.04E-01
667	miR-4638-3p(1)	0.000160	0.000110	1.6	4.73E-01	6.04E-01
668	miR-629STAR(1)	0.000935	0.000540	1.7	4.74E-01	6.05E-01
669	miR-188STAR(1)	0.000713	0.001280	-1.8	4.75E-01	6.05E-01
670	miR-520d-5p(1)	0.000877	0.000638	1.5	4.75E-01	6.05E-01
671	miR-2116(1)	0.000183	0.000108	1.8	4.76E-01	6.05E-01
672	miR-1287(1)	0.002381	0.001770	1.3	4.81E-01	6.10E-01
673	miR-3064-5p(1)	0.000130	0.000247	-1.8	4.83E-01	6.12E-01
674	miR-127STAR(1)	0.084256	0.127645	-1.5	4.88E-01	6.17E-01
675	miR-627-3p(1)	0.000389	0.000551	-1.4	4.90E-01	6.19E-01
676	miR-516STAR(4)	0.000082	0.000057	1.6	4.93E-01	6.21E-01
677	miR-1255a-3p(1)	0.000093	0.000063	1.5	4.99E-01	6.28E-01
678	miR-23aSTAR(1)	0.000893	0.000540	1.7	5.06E-01	6.37E-01
679	miR-615STAR(1)	0.000824	0.000613	1.3	5.08E-01	6.38E-01
680	miR-146aSTAR	0.000725	0.001073	-1.5	5.09E-01	6.38E-01
681	let-7f-1STAR(1)	0.001755	0.002216	-1.3	5.13E-01	6.42E-01
682	miR-659(1)	0.000278	0.000161	1.7	5.16E-01	6.45E-01
683	miR-3173(1)	0.000098	0.000074	1.6	5.19E-01	6.46E-01
684	miR-550a-3-5p	0.000010	0.000027	-1.9	5.19E-01	6.46E-01
685	miR-1276STAR	0.000033	0.000023	2.0	5.20E-01	6.47E-01
686	miR-335-3p(1)	0.006347	0.007702	-1.2	5.20E-01	6.47E-01
687	miR-148b(1)	0.479972	0.583764	-1.2	5.21E-01	6.47E-01
688	miR-498STAR(1)	0.000016	0.000003	2.0	5.23E-01	6.48E-01
689	miR-107(1)	0.130558	0.107598	1.2	5.29E-01	6.54E-01
690	miR-337STAR(1)	0.001965	0.003158	-1.6	5.31E-01	6.57E-01

	A	B	C	D	E	F
691	miR-1292(1)	0.000930	0.000656	1.4	5.33E-01	6.58E-01
692	miR-520b-3p(2)	0.000174	0.000257	-1.4	5.37E-01	6.61E-01
693	miR-208b(1)	0.000162	0.000067	2.2	5.38E-01	6.62E-01
694	miR-373STAR(1)	0.000000	0.000003	-1.9	5.46E-01	6.70E-01
695	miR-4772-5p(1)	0.000112	0.000077	1.4	5.53E-01	6.78E-01
696	miR-371(1)	0.000033	0.000048	-1.8	5.56E-01	6.80E-01
697	miR-651(1)	0.003371	0.002692	1.3	5.56E-01	6.80E-01
698	miR-299-3p(1)	0.008682	0.005897	1.5	5.58E-01	6.82E-01
699	miR-521-1STAR	0.000036	0.000012	1.8	5.66E-01	6.90E-01
700	miR-1256-3p(1)	0.000116	0.000080	1.7	5.68E-01	6.91E-01
701	miR-5187-3p(1)	0.000131	0.000081	1.6	5.69E-01	6.92E-01
702	miR-132STAR(1)	0.002670	0.002129	1.3	5.73E-01	6.95E-01
703	miR-576-5p(1)	0.001538	0.002288	-1.5	5.74E-01	6.95E-01
704	miR-1271STAR	0.000301	0.000200	1.5	5.74E-01	6.95E-01
705	miR-3944-3p(1)	0.000025	0.000012	1.7	5.76E-01	6.97E-01
706	miR-598(1)	0.003414	0.004197	-1.2	5.78E-01	6.98E-01
707	miR-576-3p(1)	0.001993	0.002710	-1.4	5.80E-01	6.99E-01
708	miR-1301(1)	0.002993	0.002428	1.2	5.81E-01	6.99E-01
709	miR-152STAR(1)	0.000520	0.000680	-1.3	5.82E-01	6.99E-01
710	miR-299-5p(1)	0.018695	0.024095	-1.3	5.82E-01	6.99E-01
711	miR-2114STAR	0.000035	0.000087	-1.8	5.88E-01	7.05E-01
712	miR-369(1)	0.046883	0.038361	1.2	5.91E-01	7.08E-01
713	miR-373(1)	0.000058	0.000087	-1.5	5.99E-01	7.15E-01
714	miR-520f-3p(1)	0.000204	0.000158	1.3	5.99E-01	7.15E-01
715	miR-502STAR(1)	0.001005	0.001356	-1.4	6.00E-01	7.15E-01
716	miR-641-3p(1)	0.000103	0.000078	1.4	6.01E-01	7.15E-01
717	miR-1250(1)	0.000113	0.000060	1.6	6.01E-01	7.15E-01
718	miR-377STAR(1)	0.004065	0.005113	-1.3	6.02E-01	7.15E-01
719	miR-590-5p(1)	0.008245	0.005960	1.4	6.09E-01	7.19E-01
720	miR-937(1)	0.000135	0.000083	1.6	6.09E-01	7.19E-01

	A	B	C	D	E	F
721	miR-522-3p(1)	0.000107	0.000180	-1.3	6.09E-01	7.19E-01
722	miR-524STAR(1)	0.000099	0.000064	1.5	6.10E-01	7.19E-01
723	miR-4504(1)	0.000045	0.000040	1.4	6.10E-01	7.19E-01
724	miR-523-3p(1)	0.000121	0.000095	1.4	6.16E-01	7.26E-01
725	miR-1296STAR	0.000148	0.000205	-1.5	6.25E-01	7.34E-01
726	miR-5187-5p(1)	0.000123	0.000081	1.6	6.26E-01	7.35E-01
727	miR-580(1)	0.000172	0.000128	1.4	6.46E-01	7.57E-01
728	miR-4326(1)	0.000409	0.000296	1.3	6.47E-01	7.57E-01
729	miR-3158STAR	0.000043	0.000072	-1.6	6.48E-01	7.58E-01
730	miR-760(1)	0.007484	0.006257	1.2	6.57E-01	7.67E-01
731	miR-2277-5p(1)	0.000845	0.000623	1.4	6.59E-01	7.68E-01
732	miR-218-1STAR	0.003097	0.004024	-1.3	6.60E-01	7.69E-01
733	miR-525-3p(1)	0.000168	0.000250	-1.4	6.62E-01	7.70E-01
734	miR-1227(1)	0.000119	0.000089	1.4	6.68E-01	7.76E-01
735	miR-597STAR(1)	0.000103	0.000081	1.3	6.71E-01	7.78E-01
736	miR-744STAR(1)	0.000438	0.000563	-1.3	6.75E-01	7.82E-01
737	miR-106bSTAR	0.020305	0.017509	1.2	6.77E-01	7.82E-01
738	miR-616-5p(1)	0.000259	0.000179	1.4	6.77E-01	7.82E-01
739	miR-592(1)	0.000124	0.000159	-1.2	6.78E-01	7.82E-01
740	miR-520d-3p(1)	0.000220	0.000202	1.3	6.82E-01	7.84E-01
741	miR-665(1)	0.015447	0.011994	1.3	6.82E-01	7.84E-01
742	miR-624-5p(1)	0.000368	0.000254	1.4	6.83E-01	7.84E-01
743	miR-196bSTAR	0.000698	0.000848	-1.2	6.84E-01	7.84E-01
744	miR-550-3p(3)	0.000711	0.000880	-1.3	6.87E-01	7.87E-01
745	miR-1306-3p(1)	0.000416	0.000340	1.2	6.91E-01	7.90E-01
746	miR-329(2)	0.005878	0.005049	1.2	6.91E-01	7.90E-01
747	miR-4473-5p(1)	0.000061	0.000036	1.4	6.98E-01	7.96E-01
748	miR-655(1)	0.014423	0.011449	1.3	7.00E-01	7.97E-01
749	miR-409-3p(1)	0.050898	0.039162	1.3	7.02E-01	7.98E-01
750	miR-512-5p(2)	0.000172	0.000195	-1.2	7.03E-01	7.98E-01

	A	B	C	D	E	F
751	miR-518a-5p(3	0.002449	0.001947	1.3	7.03E-01	7.98E-01
752	miR-379(1)	0.052670	0.044907	1.2	7.06E-01	8.00E-01
753	miR-933(1)	0.000051	0.000032	1.4	7.07E-01	8.00E-01
754	miR-515STAR(2	0.000866	0.000669	1.3	7.08E-01	8.00E-01
755	let-7i(1)	2.174036	1.893000	1.1	7.11E-01	8.02E-01
756	miR-339-5p(1)	0.009242	0.008251	1.1	7.15E-01	8.06E-01
757	miR-19b(2)	1.342497	1.201096	1.1	7.17E-01	8.07E-01
758	miR-3940(1)	0.000108	0.000143	-1.3	7.18E-01	8.07E-01
759	miR-877-3p(1)	0.000170	0.000214	-1.2	7.19E-01	8.07E-01
760	miR-92a(2)	0.376872	0.342477	1.1	7.21E-01	8.08E-01
761	miR-887(1)	0.019952	0.017209	1.2	7.24E-01	8.11E-01
762	miR-99b(1)	0.206875	0.227580	-1.1	7.26E-01	8.11E-01
763	miR-3605-5p(1	0.000271	0.000344	-1.3	7.26E-01	8.11E-01
764	miR-520g-3p(2	0.000504	0.000633	-1.2	7.31E-01	8.16E-01
765	miR-106a(1)	0.020947	0.018926	1.1	7.34E-01	8.17E-01
766	miR-181b-2STA	0.000414	0.000341	1.2	7.35E-01	8.18E-01
767	miR-132(1)	0.009402	0.007960	1.2	7.46E-01	8.29E-01
768	miR-185STAR(1	0.001005	0.000837	1.2	7.50E-01	8.31E-01
769	miR-376b(1)	0.028716	0.033557	-1.2	7.51E-01	8.31E-01
770	miR-654(1)	0.014487	0.016450	-1.1	7.51E-01	8.31E-01
771	miR-1286(1)	0.000016	0.000032	-1.4	7.54E-01	8.34E-01
772	miR-1277-3p(1	0.004263	0.003394	1.3	7.60E-01	8.37E-01
773	miR-377(1)	0.077576	0.097123	-1.3	7.60E-01	8.37E-01
774	miR-27a(1)	1.730665	1.595913	1.1	7.60E-01	8.37E-01
775	miR-219-1-3p(1	0.000144	0.000170	-1.2	7.62E-01	8.37E-01
776	miR-188(1)	0.005472	0.006137	-1.1	7.70E-01	8.46E-01
777	miR-1323STAR	0.000016	0.000007	1.4	7.81E-01	8.57E-01
778	miR-98(1)	0.129727	0.112021	1.2	7.85E-01	8.60E-01
779	miR-1185-5p(2	0.008795	0.009892	-1.1	7.89E-01	8.63E-01
780	miR-548eSTAR	0.000530	0.000428	1.2	7.92E-01	8.66E-01

	A	B	C	D	E	F
781	miR-498(1)	0.000040	0.000034	-1.2	7.95E-01	8.67E-01
782	miR-195STAR(1)	0.001222	0.001450	-1.2	7.96E-01	8.67E-01
783	miR-520a-3p(1)	0.000116	0.000131	1.2	7.96E-01	8.67E-01
784	miR-618(1)	0.000217	0.000297	-1.2	7.98E-01	8.68E-01
785	miR-25(1)	0.201566	0.216665	-1.1	8.01E-01	8.69E-01
786	miR-616-3p(1)	0.000086	0.000066	1.2	8.11E-01	8.79E-01
787	miR-30dSTAR(1)	0.006613	0.006134	1.1	8.13E-01	8.79E-01
788	miR-193a-5p(1)	0.029969	0.032347	-1.1	8.14E-01	8.79E-01
789	miR-500-5p(2)	0.003531	0.003151	1.1	8.15E-01	8.79E-01
790	miR-495STAR(1)	0.000361	0.000326	1.1	8.15E-01	8.79E-01
791	miR-3912(1)	0.000472	0.000587	-1.2	8.18E-01	8.80E-01
792	miR-382-3p(1)	0.009076	0.010060	-1.1	8.18E-01	8.80E-01
793	miR-501-5p(1)	0.002512	0.002306	1.1	8.23E-01	8.84E-01
794	miR-26a-1STAR(1)	0.000607	0.000717	-1.2	8.24E-01	8.84E-01
795	miR-500b-3p(1)	0.000153	0.000121	1.2	8.26E-01	8.85E-01
796	miR-15aSTAR(1)	0.000274	0.000329	-1.2	8.41E-01	9.00E-01
797	miR-519b-3p(1)	0.000313	0.000281	1.1	8.50E-01	9.09E-01
798	miR-1229(1)	0.000048	0.000059	-1.2	8.51E-01	9.09E-01
799	miR-376a-2-5p(1)	0.003659	0.003961	-1.1	8.54E-01	9.11E-01
800	miR-1226(1)	0.000433	0.000397	1.1	8.57E-01	9.13E-01
801	miR-1303STAR(1)	0.000113	0.000099	1.2	8.59E-01	9.14E-01
802	miR-382-5p(1)	0.020395	0.022146	-1.1	8.64E-01	9.18E-01
803	miR-16-2STAR(1)	0.005684	0.006071	-1.1	8.77E-01	9.31E-01
804	miR-501-3p(1)	0.007929	0.007598	1.0	8.88E-01	9.41E-01
805	miR-339-3p(1)	0.026538	0.025375	1.0	8.91E-01	9.43E-01
806	miR-3158(1)	0.000723	0.000669	1.1	8.93E-01	9.44E-01
807	miR-518b-3p(1)	0.000840	0.000841	1.0	9.03E-01	9.53E-01
808	miR-376a-1-5p(1)	0.006389	0.006708	-1.1	9.04E-01	9.53E-01
809	miR-7-1STAR(1)	0.002660	0.002774	-1.0	9.07E-01	9.55E-01
810	miR-450b(1)	0.020679	0.019722	1.0	9.11E-01	9.58E-01

	A	B	C	D	E	F
811	miR-101-2STAR	0.000482	0.000439	1.1	9.30E-01	9.77E-01
812	miR-103-2STAR	0.003814	0.003591	1.1	9.32E-01	9.78E-01
813	miR-1283-2-3p	0.000117	0.000145	1.1	9.34E-01	9.78E-01
814	miR-518d-3p(1	0.000030	0.000019	1.1	9.36E-01	9.79E-01
815	miR-206(1)	0.000148	0.000164	-1.1	9.37E-01	9.79E-01
816	miR-770(1)	0.000105	0.000104	-1.0	9.38E-01	9.79E-01
817	miR-512-3p(2)	0.000644	0.000636	1.0	9.46E-01	9.87E-01
818	miR-1237(1)	0.000061	0.000065	1.1	9.50E-01	9.89E-01
819	miR-153-1STAR	0.000051	0.000068	-1.2	9.51E-01	9.89E-01
820	miR-196b(1)	0.088587	0.084282	1.1	9.52E-01	9.89E-01
821	miR-323bSTAR	0.000515	0.000648	-1.2	9.54E-01	9.91E-01
822	miR-103-1STAR	0.000134	0.000134	1.0	9.60E-01	9.94E-01
823	miR-518a-1-3p	0.000264	0.000337	-1.0	9.62E-01	9.94E-01
824	miR-518a-2-3p	0.000264	0.000337	-1.0	9.62E-01	9.94E-01
825	miR-10bSTAR(1	0.017067	0.016769	1.0	9.62E-01	9.94E-01
826	miR-550-5p(2)	0.000549	0.000554	1.0	9.66E-01	9.96E-01
827	miR-487bSTAR	0.000083	0.000084	1.0	9.71E-01	1.00E+00
828	miR-520e-3p(1	0.000020	0.000015	-1.0	9.73E-01	1.00E+00
829	miR-636(1)	0.000068	0.000069	1.0	9.76E-01	1.00E+00
830	miR-505(1)	0.009464	0.009375	1.0	9.79E-01	1.00E+00
831	miR-224(1)	0.088098	0.087400	1.0	9.82E-01	1.00E+00
832	miR-29b-2STAR	0.002717	0.002771	-1.0	9.84E-01	1.00E+00
833	let-7e(1)	0.357667	0.354065	1.0	9.84E-01	1.00E+00
834	miR-369STAR(1	0.003510	0.003531	-1.0	9.88E-01	1.00E+00
835	miR-3065-5p(1	0.001022	0.001021	1.0	9.90E-01	1.00E+00
836	miR-191(1)	0.502559	0.501781	1.0	9.94E-01	1.00E+00
837	miR-1298STAR	0.000019	0.000023	-1.0	9.99E-01	1.00E+00
838	miR-124STAR(3	0.000000	0.000000	0.0	1.00E+00	1.00E+00
839	miR-1283-1-3p	0.000000	0.000000	0.0	1.00E+00	1.00E+00
840	miR-1911STAR	0.000000	0.000000	0.0	1.00E+00	1.00E+00

	A	B	C	D	E	F
841	miR-219-2-3p(1)	0.000000	0.000000	0.0	1.00E+00	1.00E+00
842	miR-302a-3p(1)	0.000000	0.000000	0.0	1.00E+00	1.00E+00
843	miR-302b(1)	0.000000	0.000000	0.0	1.00E+00	1.00E+00
844	miR-302bSTAR	0.000000	0.000000	0.0	1.00E+00	1.00E+00
845	miR-302c(1)	0.000000	0.000000	0.0	1.00E+00	1.00E+00
846	miR-302cSTAR	0.000000	0.000000	0.0	1.00E+00	1.00E+00
847	miR-302dSTAR	0.000000	0.000000	0.0	1.00E+00	1.00E+00
848	miR-367(1)	0.000000	0.000000	0.0	1.00E+00	1.00E+00
849	miR-367STAR(1)	0.000000	0.000000	0.0	1.00E+00	1.00E+00
850	miR-448(1)	0.000000	0.000000	0.0	1.00E+00	1.00E+00
851	miR-521-2STAR	0.000000	0.000000	0.0	1.00E+00	1.00E+00
852	miR-92a-2STAR	0.000000	0.000000	0.0	1.00E+00	1.00E+00

	A	B	C	D	E	F
1		Relative frequency (%)				
2	miRNA	HemSC	NS	Fold change	P Value	FDR
3	miR-31-5p(1)	0.453689	0.000859	550.8	3.05E-10	3.55E-08
4	miR-302b(1)	0.002404	0.000000	479.9	2.64E-08	1.07E-06
5	miR-100STAR(1)	0.114057	0.000374	294.4	9.34E-06	1.10E-04
6	miR-137STAR(1)	0.001438	0.000000	287.7	8.92E-07	1.72E-05
7	miR-302a-3p(1)	0.001256	0.000000	251.0	3.30E-10	3.55E-08
8	miR-31-3p(1)	0.092611	0.000409	246.6	1.36E-07	3.61E-06
9	miR-889(1)	0.290536	0.001314	218.9	1.51E-07	3.90E-06
10	miR-1185-2-3p(1)	0.045083	0.000206	210.3	1.66E-08	8.27E-07
11	miR-302a-5p(1)	0.000915	0.000000	183.3	2.50E-09	1.77E-07
12	miR-137(1)	0.205673	0.001637	125.1	3.42E-06	5.01E-05
13	miR-1185-1-3p(1)	0.164970	0.001464	110.1	9.04E-06	1.08E-04
14	miR-154-3p(1)	0.433777	0.004008	107.7	3.47E-10	3.55E-08
15	miR-29b-1STAR(1)	0.023372	0.000228	106.8	3.84E-06	5.44E-05
16	miR-302d(1)	0.001036	0.000005	102.8	3.98E-07	9.13E-06
17	miR-3117(1)	0.010784	0.000101	99.4	9.88E-06	1.14E-04
18	miR-222STAR(1)	0.171113	0.001989	86.3	1.31E-05	1.33E-04
19	miR-380-3p(1)	0.039505	0.000465	80.0	4.30E-07	9.62E-06
20	miR-496STAR(1)	0.001100	0.000007	79.9	1.05E-05	1.16E-04
21	miR-302c(1)	0.000372	0.000000	75.4	2.24E-06	3.81E-05
22	miR-1197(1)	0.011006	0.000141	73.5	1.28E-08	6.83E-07
23	miR-758STAR(1)	0.014417	0.000215	68.1	2.22E-08	9.95E-07
24	miR-539(1)	0.378597	0.005899	64.2	1.06E-07	2.90E-06
25	miR-487a-3p(1)	0.159057	0.002475	63.7	1.75E-08	8.27E-07
26	miR-3152(1)	0.001895	0.000021	62.5	3.07E-06	4.71E-05
27	miR-34aSTAR(1)	0.033653	0.000551	61.6	1.53E-06	2.71E-05
28	miR-412STAR(1)	0.001457	0.000017	60.3	1.31E-06	2.39E-05
29	miR-380-5p(1)	0.029756	0.000486	58.6	8.84E-08	2.59E-06
30	miR-3919-3p(1)	0.000789	0.000007	57.6	6.81E-05	4.99E-04

	A	B	C	D	E	F
31	miR-376a-3p(2)	0.607400	0.011717	51.7	1.01E-06	1.91E-05
32	miR-323aSTAR(	0.001451	0.000021	50.5	1.72E-05	1.60E-04
33	miR-889STAR(1	0.002441	0.000040	50.4	1.25E-05	1.29E-04
34	miR-3176(1)	0.002743	0.000070	47.6	4.02E-08	1.42E-06
35	miR-411STAR(1	0.072974	0.001595	45.1	1.10E-04	7.33E-04
36	miR-431-5p(1)	0.140069	0.003195	43.5	3.76E-10	3.55E-08
37	miR-155STAR(1	0.001768	0.000033	43.2	8.77E-06	1.07E-04
38	miR-412(1)	0.055417	0.001327	41.0	1.34E-05	1.33E-04
39	miR-655STAR(1	0.001445	0.000028	39.4	2.60E-05	2.33E-04
40	miR-494(1)	0.688852	0.018462	37.3	7.65E-05	5.37E-04
41	miR-221STAR(1	0.567270	0.015258	37.1	3.30E-09	2.16E-07
42	miR-496(1)	0.026015	0.000675	36.9	8.81E-07	1.72E-05
43	miR-155(1)	0.295110	0.008889	33.1	2.85E-10	3.55E-08
44	miR-433STAR(1	0.009703	0.000288	32.2	1.02E-05	1.16E-04
45	miR-3152STAR(	0.000331	0.000006	32.2	2.53E-04	1.38E-03
46	miR-34a(1)	1.487413	0.050530	29.4	6.82E-11	1.93E-08
47	miR-4725-3p(1)	0.000391	0.000006	29.2	3.44E-04	1.76E-03
48	miR-1910(1)	0.000297	0.000005	29.0	1.34E-02	3.90E-02
49	miR-323a(1)	0.072743	0.002540	28.6	1.27E-04	8.13E-04
50	miR-543STAR(1	0.011713	0.000405	27.7	5.20E-06	6.80E-05
51	miR-1193-5p(1)	0.000126	0.000000	26.0	8.82E-04	3.71E-03
52	miR-379STAR(1	0.023895	0.000902	25.9	1.15E-05	1.24E-04
53	miR-29aSTAR(1	0.048454	0.002069	23.6	1.82E-04	1.04E-03
54	miR-134(1)	0.530584	0.022972	23.1	3.48E-08	1.32E-06
55	miR-409-3p(1)	0.874438	0.039162	22.3	6.92E-04	3.11E-03
56	miR-125b-1STA	0.376249	0.017534	21.4	5.00E-08	1.70E-06
57	miR-1252(1)	0.000753	0.000028	21.4	2.04E-04	1.14E-03
58	miR-410(1)	0.099733	0.004641	21.3	2.13E-05	1.96E-04
59	miR-21(1)	79.918677	3.906535	20.5	8.58E-10	7.29E-08
60	miR-29b(2)	2.038462	0.106145	19.2	7.89E-08	2.50E-06

	A	B	C	D	E	F
61	miR-541-5p(1)	0.000417	0.000014	18.9	1.33E-04	8.45E-04
62	miR-7(3)	0.543473	0.028887	18.8	4.23E-09	2.57E-07
63	miR-323b(1)	0.011746	0.000613	18.7	3.63E-05	2.89E-04
64	miR-539STAR(1)	0.020272	0.001086	18.3	1.32E-06	2.39E-05
65	miR-138(2)	0.115730	0.006309	18.3	2.37E-08	1.01E-06
66	miR-544-5p(1)	0.009613	0.000534	17.8	1.17E-04	7.74E-04
67	miR-367(1)	0.000085	0.000000	17.7	2.74E-03	9.72E-03
68	miR-543(1)	0.075000	0.004375	17.1	8.62E-06	1.06E-04
69	miR-122(1)	0.002573	0.000138	16.8	1.48E-04	9.18E-04
70	miR-376b(1)	0.550593	0.033557	16.4	6.09E-05	4.50E-04
71	miR-299-3p(1)	0.095340	0.005897	16.1	1.08E-03	4.37E-03
72	miR-493-5p(1)	0.222518	0.014231	15.6	5.29E-05	4.01E-04
73	miR-369STAR(1)	0.053650	0.003531	15.1	9.27E-05	6.35E-04
74	miR-485-3p(1)	0.017610	0.001218	14.4	6.04E-06	7.77E-05
75	miR-379(1)	0.633473	0.044907	14.1	1.59E-05	1.50E-04
76	miR-487bSTAR(1)	0.001225	0.000084	14.0	6.63E-04	3.00E-03
77	miR-3174(1)	0.000377	0.000023	13.7	6.94E-03	2.20E-02
78	miR-1276(1)	0.000121	0.000003	13.6	1.14E-02	3.42E-02
79	miR-329STAR(2)	0.001950	0.000139	13.5	9.13E-05	6.31E-04
80	miR-411(1)	0.443029	0.032912	13.4	4.99E-04	2.40E-03
81	miR-498STAR(1)	0.000121	0.000003	13.4	2.26E-02	5.96E-02
82	miR-370STAR(1)	0.008549	0.000643	13.1	8.10E-06	1.01E-04
83	miR-758(1)	0.038659	0.002915	13.1	3.32E-06	4.95E-05
84	miR-656STAR(1)	0.001497	0.000104	12.9	7.80E-04	3.38E-03
85	miR-493-3p(1)	0.117599	0.009495	12.4	3.71E-05	2.92E-04
86	miR-1185-5p(2)	0.122324	0.009892	12.3	5.63E-05	4.24E-04
87	miR-376a-2-5p(1)	0.048507	0.003961	12.2	8.69E-05	6.05E-04
88	miR-494STAR(1)	0.001035	0.000079	11.7	1.53E-03	5.95E-03
89	miR-541-3p(1)	0.000663	0.000046	11.5	7.62E-04	3.32E-03
90	miR-138-1STAR(1)	0.001528	0.000135	11.5	1.12E-03	4.53E-03

	A	B	C	D	E	F
91	miR-655(1)	0.131189	0.011449	11.4	1.48E-03	5.77E-03
92	miR-421(1)	0.029878	0.002637	11.4	3.71E-06	5.34E-05
93	miR-3619-5p(1)	0.000502	0.000045	11.3	9.69E-04	3.98E-03
94	miR-376cSTAR(	0.042142	0.003720	11.3	1.10E-05	1.20E-04
95	miR-3944-3p(1)	0.000206	0.000012	11.1	1.82E-02	5.03E-02
96	miR-1294STAR(	0.000367	0.000028	10.7	5.10E-03	1.70E-02
97	miR-377STAR(1	0.053513	0.005113	10.4	1.02E-04	6.81E-04
98	miR-329(2)	0.052491	0.005049	10.4	1.45E-05	1.40E-04
99	miR-656(1)	0.041647	0.004080	10.1	1.24E-04	8.07E-04
100	miR-519b-3p(1)	0.002724	0.000281	9.8	9.82E-05	6.62E-04
101	miR-381(1)	0.502921	0.052020	9.7	7.84E-03	2.46E-02
102	miR-374bSTAR(	0.011440	0.001234	9.5	2.72E-04	1.46E-03
103	miR-222(1)	4.374944	0.460232	9.5	1.59E-09	1.23E-07
104	miR-21STAR(1)	0.075366	0.007978	9.4	3.35E-05	2.82E-04
105	miR-302bSTAR(	0.000040	0.000000	9.3	3.39E-02	7.87E-02
106	miR-521-1STAR	0.000171	0.000012	9.1	4.35E-02	9.59E-02
107	miR-34c(1)	0.063606	0.007019	9.1	3.49E-04	1.77E-03
108	miR-519e-5p(1)	0.001013	0.000103	9.0	2.18E-02	5.82E-02
109	miR-369(1)	0.341347	0.038361	8.9	2.82E-05	2.50E-04
110	miR-654STAR(1	0.051028	0.005910	8.6	4.51E-06	6.08E-05
111	miR-2355-5p(1)	0.002753	0.000302	8.6	6.93E-03	2.20E-02
112	miR-5094-5p(1)	0.000085	0.000006	8.5	1.40E-01	2.41E-01
113	miR-3192(1)	0.000085	0.000006	8.5	8.19E-02	1.57E-01
114	miR-520e-3p(1)	0.000161	0.000015	8.2	2.84E-02	6.88E-02
115	miR-544-3p(1)	0.003020	0.000345	8.2	6.86E-03	2.19E-02
116	miR-376a-1-5p(	0.053844	0.006708	8.0	1.46E-04	9.10E-04
117	miR-1303(1)	0.001437	0.000172	7.9	1.08E-03	4.37E-03
118	miR-409-5p(1)	0.065436	0.008299	7.9	1.77E-04	1.03E-03
119	miR-1294(1)	0.001083	0.000134	7.7	1.30E-03	5.13E-03
120	miR-3909(1)	0.001561	0.000212	7.6	2.44E-02	6.19E-02

	A	B	C	D	E	F
121	miR-376bSTAR(	0.026371	0.003442	7.6	1.58E-04	9.76E-04
122	let-7a-2STAR(1)	0.001618	0.000220	7.4	7.96E-04	3.43E-03
123	miR-382-5p(1)	0.154169	0.022146	7.0	1.75E-03	6.53E-03
124	miR-432(1)	0.052320	0.007788	6.7	1.64E-04	9.93E-04
125	miR-410STAR(1)	0.000296	0.000035	6.5	4.56E-02	9.99E-02
126	miR-665(1)	0.076803	0.011994	6.4	1.20E-02	3.58E-02
127	miR-520d-5p(1)	0.003737	0.000638	6.4	5.81E-03	1.92E-02
128	miR-449c(1)	0.000080	0.000007	6.3	4.82E-02	1.04E-01
129	miR-654(1)	0.102731	0.016450	6.2	4.98E-04	2.40E-03
130	miR-29a(1)	4.646449	0.747467	6.2	4.89E-03	1.64E-02
131	miR-519dSTAR(	0.000090	0.000008	6.1	8.70E-02	1.64E-01
132	miR-1323STAR(	0.000081	0.000007	6.1	1.35E-01	2.35E-01
133	miR-3677-5p(1)	0.000256	0.000034	6.1	6.71E-02	1.35E-01
134	miR-487a-5p(1)	0.006388	0.001042	6.0	1.27E-02	3.75E-02
135	miR-431-3p(1)	0.006626	0.001099	5.9	5.41E-04	2.57E-03
136	miR-299-5p(1)	0.141545	0.024095	5.9	2.33E-03	8.44E-03
137	miR-1278(1)	0.000211	0.000028	5.8	9.39E-02	1.74E-01
138	miR-18a(1)	0.249375	0.043217	5.8	9.78E-04	4.00E-03
139	miR-365-2STAR	0.001040	0.000187	5.7	5.53E-02	1.16E-01
140	miR-503(1)	0.119524	0.021247	5.6	2.97E-04	1.56E-03
141	miR-1304STAR(	0.001338	0.000241	5.6	1.61E-04	9.87E-04
142	miR-491STAR(1)	0.000502	0.000078	5.6	2.69E-02	6.60E-02
143	miR-449a(1)	0.001387	0.000257	5.6	1.45E-02	4.16E-02
144	miR-520f-3p(1)	0.000811	0.000158	5.5	6.03E-03	1.97E-02
145	miR-1255a-3p(1)	0.000327	0.000063	5.3	1.82E-02	5.03E-02
146	miR-3677-3p(1)	0.000161	0.000035	5.3	6.11E-02	1.26E-01
147	miR-340(1)	0.015740	0.002997	5.2	6.82E-02	1.37E-01
148	miR-520a-3p(1)	0.000538	0.000131	5.2	8.79E-03	2.72E-02
149	miR-548e(1)	0.006496	0.001281	5.1	3.49E-04	1.77E-03
150	miR-3158STAR(	0.000376	0.000072	5.1	1.09E-01	1.98E-01

	A	B	C	D	E	F
151	miR-495(1)	0.142437	0.027856	5.1	1.65E-03	6.24E-03
152	miR-33bSTAR(1)	0.001508	0.000303	5.1	2.60E-02	6.46E-02
153	miR-34bSTAR(1)	0.000628	0.000138	5.1	8.95E-02	1.67E-01
154	miR-487b(1)	0.142496	0.028308	5.0	1.60E-03	6.10E-03
155	miR-526b-5p(1)	0.001024	0.000218	4.9	8.14E-03	2.54E-02
156	miR-942STAR(1)	0.000381	0.000095	4.8	9.73E-02	1.79E-01
157	miR-345STAR(1)	0.000493	0.000094	4.8	8.74E-02	1.64E-01
158	miR-519c-3p(1)	0.000367	0.000087	4.8	2.50E-02	6.26E-02
159	miR-3158(1)	0.003175	0.000669	4.8	4.58E-02	1.00E-01
160	miR-495STAR(1)	0.001557	0.000326	4.7	1.46E-02	4.18E-02
161	miR-92b(1)	0.029859	0.006344	4.7	4.69E-04	2.30E-03
162	miR-381STAR(1)	0.004850	0.001014	4.7	3.63E-02	8.28E-02
163	miR-579-5p(1)	0.000583	0.000127	4.7	7.96E-02	1.53E-01
164	miR-628-5p(1)	0.006276	0.001369	4.6	1.41E-02	4.07E-02
165	miR-452(1)	0.386149	0.083638	4.6	1.25E-05	1.29E-04
166	miR-92bSTAR(1)	0.002987	0.000639	4.6	4.95E-04	2.40E-03
167	miR-516STAR(4)	0.000247	0.000057	4.5	4.17E-02	9.26E-02
168	miR-525-5p(1)	0.000533	0.000116	4.5	2.14E-02	5.75E-02
169	miR-3200(1)	0.003160	0.000689	4.5	1.73E-03	6.48E-03
170	miR-3934(1)	0.001903	0.000439	4.4	1.28E-02	3.77E-02
171	miR-376c(1)	1.763356	0.403952	4.4	2.65E-02	6.58E-02
172	miR-590-3p(1)	0.027558	0.006382	4.3	1.90E-03	7.02E-03
173	miR-671-5p(1)	0.060279	0.014035	4.3	2.22E-02	5.87E-02
174	miR-221(1)	4.780389	1.118186	4.3	5.24E-05	4.01E-04
175	miR-616-5p(1)	0.000815	0.000179	4.2	1.13E-01	2.03E-01
176	miR-4746(1)	0.000256	0.000051	4.2	8.27E-02	1.58E-01
177	miR-641-5p(1)	0.001898	0.000446	4.2	3.41E-02	7.91E-02
178	miR-515(2)	0.006650	0.001635	4.2	3.25E-02	7.64E-02
179	miR-25STAR(1)	0.001802	0.000434	4.1	9.62E-02	1.77E-01
180	miR-425(1)	0.417197	0.101433	4.1	9.56E-05	6.50E-04

	A	B	C	D	E	F
181	miR-130bSTAR(	0.010394	0.002519	4.1	3.15E-04	1.64E-03
183	miR-518e-5p(5)	0.000787	0.000206	4.0	5.58E-02	1.17E-01
184	miR-485-5p(1)	0.020811	0.005173	4.0	5.99E-02	1.24E-01
185	miR-370(1)	0.042155	0.010611	4.0	1.41E-02	4.07E-02
186	miR-589-3p(1)	0.001317	0.000350	3.9	1.55E-03	5.97E-03
187	miR-20a(1)	0.554508	0.141330	3.9	3.50E-03	1.21E-02
188	miR-337(1)	0.070581	0.018210	3.9	1.63E-02	4.58E-02
189	miR-1283-5p(2)	0.000744	0.000257	3.9	7.42E-02	1.44E-01
190	miR-605-5p(1)	0.000126	0.000026	3.8	6.59E-02	1.33E-01
191	miR-518e-3p(1)	0.003212	0.000881	3.8	3.52E-02	8.09E-02
192	miR-584STAR(1	0.000246	0.000063	3.8	7.99E-02	1.53E-01
193	miR-129-5p(2)	0.002084	0.000526	3.8	8.88E-03	2.73E-02
194	miR-15b(1)	0.316261	0.083943	3.8	2.85E-03	1.01E-02
195	miR-519a-2-5p(	0.000377	0.000121	3.7	1.29E-01	2.26E-01
196	miR-27aSTAR(1	0.105152	0.028133	3.7	1.32E-02	3.85E-02
197	miR-518d-5p(5)	0.000581	0.000157	3.7	1.10E-01	2.00E-01
198	miR-3657(1)	0.000216	0.000047	3.7	9.84E-02	1.80E-01
199	miR-770(1)	0.000422	0.000104	3.7	7.21E-02	1.42E-01
200	miR-16(2)	1.757755	0.485645	3.6	2.74E-02	6.66E-02
202	miR-15bSTAR(1	0.017388	0.004853	3.6	1.22E-02	3.62E-02
204	miR-1305(1)	0.000246	0.000062	3.6	3.67E-02	8.32E-02
205	miR-22STAR(1)	0.033814	0.009502	3.6	5.53E-02	1.16E-01
206	miR-134STAR(1	0.001071	0.000291	3.5	5.19E-02	1.10E-01
207	miR-665STAR(1	0.000452	0.000117	3.5	7.21E-02	1.42E-01
209	miR-432STAR(1	0.000687	0.000187	3.5	8.75E-02	1.64E-01
211	miR-34cSTAR(1	0.000618	0.000173	3.5	1.40E-01	2.41E-01
212	miR-522-3p(1)	0.000477	0.000180	3.4	2.87E-02	6.94E-02
213	miR-224(1)	0.295046	0.087400	3.4	4.29E-03	1.46E-02
215	miR-518a-5p(3)	0.006226	0.001947	3.3	1.02E-01	1.86E-01
217	miR-452STAR(1	0.045219	0.013916	3.2	6.10E-03	1.99E-02

	A	B	C	D	E	F
218	miR-516a(2)	0.012441	0.003878	3.2	4.88E-02	1.05E-01
219	miR-671-3p(1)	0.002647	0.000814	3.2	5.01E-02	1.07E-01
222	miR-1277-5p(1)	0.003458	0.001050	3.2	1.35E-01	2.35E-01
223	miR-19aSTAR(1)	0.000337	0.000091	3.2	7.64E-02	1.48E-01
225	miR-382-3p(1)	0.032071	0.010060	3.2	3.08E-02	7.34E-02
226	miR-374a(1)	0.288605	0.092976	3.1	3.61E-02	8.24E-02
228	miR-3187(1)	0.000337	0.000098	3.1	6.85E-02	1.37E-01
229	miR-589-5p(1)	0.001261	0.000413	3.1	2.16E-02	5.79E-02
230	miR-147STAR(1)	0.000216	0.000069	3.0	1.17E-01	2.08E-01
231	let-7i(1)	5.724508	1.893000	3.0	1.29E-02	3.77E-02
232	miR-148bSTAR(1)	0.006362	0.002163	3.0	1.63E-02	4.58E-02
234	miR-491(1)	0.006194	0.002142	2.9	6.05E-02	1.25E-01
237	miR-519a-1-5p(1)	0.000256	0.000099	2.8	1.17E-01	2.08E-01
238	miR-500b-3p(1)	0.000367	0.000121	2.8	1.20E-01	2.13E-01
242	miR-212-3p(1)	0.002623	0.000972	2.7	3.15E-02	7.47E-02
243	miR-518c-3p(1)	0.003324	0.001287	2.7	4.65E-02	1.01E-01
244	miR-132STAR(1)	0.005646	0.002129	2.7	3.77E-02	8.51E-02
247	miR-24-2STAR(1)	0.102461	0.039122	2.6	6.22E-02	1.28E-01
248	miR-1255a-5p(1)	0.001025	0.000419	2.5	1.13E-01	2.03E-01
249	miR-18aSTAR(1)	0.003042	0.001185	2.5	2.37E-02	6.13E-02
250	miR-10aSTAR(1)	0.005352	0.002125	2.5	8.48E-02	1.61E-01
252	miR-130b(1)	0.092099	0.036762	2.5	1.54E-02	4.38E-02
254	miR-520b-3p(2)	0.000564	0.000257	2.5	1.03E-01	1.87E-01
258	miR-193a-5p(1)	0.079095	0.032347	2.4	1.94E-02	5.29E-02
259	miR-615STAR(1)	0.001497	0.000613	2.4	7.39E-02	1.44E-01
260	miR-374aSTAR(1)	0.035035	0.014636	2.4	4.26E-02	9.42E-02
263	miR-296-3p(1)	0.002539	0.001093	2.3	7.59E-02	1.47E-01
267	miR-301b(1)	0.007587	0.003387	2.2	6.10E-02	1.26E-01
268	miR-512-3p(2)	0.001367	0.000636	2.2	6.31E-02	1.28E-01
271	miR-361-5p(1)	0.094739	0.042867	2.2	9.09E-02	1.69E-01

	A	B	C	D	E	F
283	miR-519d(1)	0.001045	0.000522	2.1	7.15E-02	1.42E-01
284	miR-1270(2)	0.001285	0.000617	2.1	1.07E-01	1.94E-01
287	miR-19b-1STAR	0.006613	0.003227	2.0	7.34E-02	1.44E-01
291	miR-128(2)	0.046067	0.023197	2.0	7.38E-02	1.44E-01
297	miR-339-5p(1)	0.015936	0.008251	1.9	7.41E-02	1.44E-01
307	miR-331STAR(1)	0.004502	0.002426	1.9	1.43E-01	2.45E-01
308	miR-454(1)	0.015442	0.008294	1.9	1.39E-01	2.39E-01
313	miR-151-5p(1)	0.341284	0.193463	1.8	9.46E-02	1.75E-01
314	miR-151-3p(1)	0.376256	0.216476	1.7	3.52E-02	8.09E-02
316	miR-335-3p(1)	0.013316	0.007702	1.7	1.17E-01	2.08E-01
321	miR-27a(1)	2.665408	1.595913	1.7	9.67E-02	1.78E-01
509	miR-125b(2)	0.878408	1.442813	-1.6	1.25E-01	2.18E-01
513	miR-345(1)	0.009618	0.016249	-1.7	1.07E-01	1.94E-01
526	miR-218(2)	0.061474	0.112763	-1.8	1.19E-01	2.11E-01
528	miR-532-5p(1)	0.027323	0.050390	-1.8	8.96E-02	1.67E-01
539	miR-193bSTAR(1)	0.003542	0.006890	-1.9	9.37E-02	1.74E-01
541	miR-30eSTAR(1)	0.101498	0.199059	-2.0	2.43E-02	6.19E-02
544	miR-660(1)	0.019470	0.038638	-2.0	1.26E-01	2.21E-01
545	miR-27b(1)	1.098930	2.181145	-2.0	2.44E-02	6.19E-02
546	miR-140(1)	0.165302	0.330303	-2.0	1.16E-01	2.08E-01
553	miR-502(1)	0.009956	0.021575	-2.2	4.12E-02	9.19E-02
555	miR-362-5p(1)	0.012294	0.026941	-2.2	6.99E-02	1.39E-01
557	miR-197(1)	0.012032	0.026610	-2.2	3.87E-02	8.70E-02
558	miR-93STAR(1)	0.002673	0.005906	-2.2	6.83E-02	1.37E-01
559	miR-25(1)	0.097535	0.216665	-2.2	2.69E-02	6.60E-02
560	miR-342(1)	0.037573	0.084378	-2.2	8.69E-03	2.71E-02
562	miR-30d(1)	0.233275	0.526805	-2.3	2.26E-02	5.96E-02
564	miR-181d(1)	0.004351	0.010029	-2.3	1.95E-02	5.31E-02
566	let-7dSTAR(1)	0.007546	0.017735	-2.4	3.58E-02	8.19E-02
569	miR-505(1)	0.003928	0.009375	-2.4	4.90E-02	1.05E-01

	A	B	C	D	E	F
575	miR-143(1)	4.249267	10.807826	-2.5	7.35E-02	1.44E-01
577	miR-627-3p(1)	0.000211	0.000551	-2.6	1.38E-01	2.39E-01
578	miR-214-5p(1)	0.006480	0.016689	-2.6	1.96E-02	5.32E-02
579	miR-708(1)	0.039583	0.101922	-2.6	3.26E-02	7.64E-02
583	miR-1307-5p(1)	0.017573	0.048654	-2.8	2.54E-02	6.34E-02
587	miR-532-3p(1)	0.007502	0.021982	-2.9	1.11E-02	3.35E-02
588	miR-335-5p(1)	0.048544	0.142437	-2.9	1.99E-02	5.38E-02
590	miR-328(1)	0.002034	0.006316	-3.1	3.77E-02	8.51E-02
595	miR-199a-3p(3)	1.369158	4.394329	-3.2	9.51E-03	2.91E-02
598	miR-331(1)	0.007589	0.025131	-3.3	6.36E-03	2.06E-02
600	let-7iSTAR(1)	0.004761	0.015868	-3.3	2.21E-02	5.87E-02
601	miR-190b(1)	0.000301	0.001023	-3.4	4.83E-02	1.04E-01
602	miR-10b(1)	0.295743	1.007341	-3.4	1.14E-01	2.04E-01
605	miR-124(3)	0.000170	0.000618	-3.6	4.67E-02	1.01E-01
606	miR-98STAR(1)	0.000367	0.001342	-3.6	1.70E-02	4.77E-02
608	miR-592(1)	0.000040	0.000159	-3.6	1.24E-01	2.18E-01
609	let-7f-2STAR(1)	0.000427	0.001577	-3.7	2.29E-02	5.98E-02
611	miR-190a(1)	0.010198	0.038271	-3.8	6.57E-03	2.11E-02
612	miR-186STAR(1)	0.000327	0.001252	-3.8	3.05E-02	7.31E-02
613	miR-26a(2)	1.448218	5.510154	-3.8	5.19E-03	1.72E-02
614	let-7f(2)	1.702556	6.594766	-3.9	5.95E-03	1.95E-02
615	miR-181a(2)	0.184238	0.714227	-3.9	1.65E-03	6.24E-03
616	miR-146a(1)	0.067043	0.260436	-3.9	3.10E-02	7.35E-02
617	miR-570-5p(1)	0.000085	0.000348	-3.9	1.11E-01	2.01E-01
619	miR-33aSTAR(1)	0.000843	0.003343	-4.0	2.69E-02	6.60E-02
621	miR-28-3p(1)	0.033023	0.132554	-4.0	5.40E-04	2.57E-03
622	miR-342STAR(1)	0.000673	0.002756	-4.1	7.14E-02	1.42E-01
623	miR-10bSTAR(1)	0.004072	0.016769	-4.1	3.61E-03	1.25E-02
624	miR-361-3p(1)	0.003658	0.015206	-4.1	2.97E-04	1.56E-03
625	miR-19b(2)	0.287118	1.201096	-4.2	8.20E-04	3.48E-03

	A	B	C	D	E	F
626	miR-887(1)	0.004051	0.017209	-4.2	1.04E-02	3.15E-02
627	miR-320(1)	0.218329	0.935921	-4.3	2.26E-04	1.24E-03
628	miR-190aSTAR(1)	0.000296	0.001285	-4.3	6.30E-02	1.28E-01
629	miR-193b(1)	0.044031	0.191975	-4.4	7.36E-04	3.26E-03
630	miR-199b-5p(1)	0.126319	0.555891	-4.4	1.21E-02	3.59E-02
631	miR-29c(1)	0.025070	0.110747	-4.4	1.38E-02	4.00E-02
632	miR-125a(1)	0.061726	0.274388	-4.4	5.78E-04	2.70E-03
633	miR-708STAR(1)	0.001532	0.006943	-4.5	2.29E-02	5.98E-02
634	miR-652(1)	0.010737	0.049542	-4.6	7.56E-04	3.32E-03
635	let-7d(1)	0.115560	0.535645	-4.6	3.25E-02	7.64E-02
637	miR-455-5p(1)	0.005677	0.027205	-4.8	5.86E-03	1.93E-02
639	miR-455-3p(1)	0.020831	0.103256	-5.0	8.91E-04	3.71E-03
640	miR-192(1)	0.006606	0.033213	-5.0	6.17E-04	2.85E-03
643	miR-30c(2)	0.068835	0.359491	-5.2	1.75E-04	1.02E-03
644	miR-23b(1)	0.209062	1.110072	-5.3	5.94E-05	4.43E-04
645	let-7gSTAR(1)	0.000327	0.001791	-5.4	1.90E-02	5.21E-02
647	miR-582STAR(1)	0.000336	0.001879	-5.5	4.12E-02	9.19E-02
649	miR-26bSTAR(1)	0.000613	0.003454	-5.6	4.92E-02	1.05E-01
650	miR-33a(1)	0.006584	0.036658	-5.6	4.83E-04	2.36E-03
651	miR-340STAR(1)	0.000251	0.001439	-5.7	9.11E-04	3.78E-03
652	miR-195STAR(1)	0.000251	0.001450	-5.7	6.48E-02	1.31E-01
653	miR-23bSTAR(1)	0.000512	0.002962	-5.8	4.60E-02	1.00E-01
654	miR-362-3p(1)	0.001810	0.010505	-5.8	1.03E-02	3.14E-02
655	miR-486STAR(1)	0.000080	0.000522	-6.0	1.16E-01	2.07E-01
656	miR-378(1)	0.210141	1.254631	-6.0	3.50E-05	2.86E-04
662	miR-29cSTAR(1)	0.001296	0.007987	-6.1	2.40E-02	6.18E-02
664	miR-874(1)	0.003580	0.022289	-6.2	6.51E-04	2.97E-03
665	miR-548b(1)	0.000081	0.000534	-6.2	8.77E-03	2.72E-02
667	miR-125b-2STA	0.007489	0.048855	-6.5	5.15E-05	3.98E-04
669	miR-184(1)	0.000040	0.000294	-6.6	8.70E-02	1.64E-01

	A	B	C	D	E	F
671	miR-181c(1)	0.004741	0.031415	-6.6	1.32E-03	5.19E-03
672	miR-181a-2STA	0.002691	0.018239	-6.8	7.63E-03	2.40E-02
673	miR-585STAR(1	0.000040	0.000314	-6.8	5.23E-02	1.11E-01
674	miR-195(1)	0.040412	0.280148	-6.9	2.70E-02	6.60E-02
676	miR-550-3p(3)	0.000121	0.000880	-7.0	2.47E-02	6.24E-02
678	miR-378STAR(1	0.001431	0.010110	-7.1	3.82E-04	1.92E-03
681	miR-181b-2STA	0.000040	0.000341	-7.6	2.18E-02	5.82E-02
683	miR-145STAR(1	0.010136	0.080254	-7.9	2.35E-02	6.11E-02
684	miR-615(1)	0.000261	0.002115	-8.1	2.91E-02	7.02E-02
685	miR-574-3p(1)	0.010686	0.087547	-8.2	1.47E-05	1.40E-04
686	miR-874STAR(1	0.000216	0.001778	-8.3	6.41E-03	2.06E-02
687	miR-598(1)	0.000497	0.004197	-8.4	2.95E-04	1.56E-03
689	miR-497(1)	0.055990	0.479853	-8.6	4.59E-06	6.09E-05
691	miR-181cSTAR(	0.000734	0.006388	-8.6	3.22E-04	1.67E-03
692	miR-582(1)	0.000457	0.004051	-8.7	2.44E-02	6.19E-02
695	miR-146bSTAR(	0.000090	0.000851	-9.3	8.40E-02	1.60E-01
696	let-7cSTAR(1)	0.000126	0.001228	-9.4	6.95E-04	3.11E-03
697	miR-561(1)	0.000045	0.000444	-9.8	1.48E-02	4.22E-02
698	miR-101-2STAR	0.000040	0.000439	-9.8	8.40E-02	1.60E-01
699	miR-194(2)	0.001974	0.019662	-9.9	7.16E-05	5.16E-04
700	miR-3617(1)	0.000045	0.000520	-10.2	8.64E-02	1.64E-01
701	miR-146b(1)	0.021894	0.230151	-10.5	3.29E-05	2.81E-04
702	miR-2110(1)	0.000341	0.004034	-11.7	2.51E-05	2.27E-04
703	let-7c(1)	0.090630	1.074958	-11.9	4.03E-03	1.38E-02
704	miR-106aSTAR(	0.000040	0.000539	-11.9	5.02E-03	1.68E-02
706	miR-139(1)	0.002196	0.029298	-13.3	1.44E-04	9.05E-04
707	miR-105(2)	0.000000	0.000053	-13.4	8.89E-02	1.66E-01
708	miR-153-1STAR	0.000000	0.000068	-13.6	1.24E-01	2.18E-01
709	miR-101(2)	0.079781	1.097522	-13.8	8.52E-07	1.72E-05
710	miR-20b(1)	0.000905	0.012596	-13.8	9.89E-06	1.14E-04

	A	B	C	D	E	F
712	miR-652STAR(1)	0.000356	0.004870	-13.9	1.84E-02	5.06E-02
714	miR-30b(1)	0.025526	0.361902	-14.2	4.41E-06	6.05E-05
715	miR-202(1)	0.000251	0.003797	-14.8	2.03E-03	7.44E-03
716	miR-149(1)	0.002870	0.043176	-15.0	3.41E-04	1.76E-03
717	miR-486(1)	0.002942	0.044775	-15.2	2.18E-06	3.79E-05
718	miR-143STAR(1)	0.011729	0.179024	-15.3	3.15E-03	1.10E-02
719	miR-4772-5p(1)	0.000000	0.000077	-15.8	7.75E-02	1.49E-01
720	miR-142-3p(1)	0.008980	0.143444	-16.0	2.86E-06	4.51E-05
721	miR-33b(1)	0.000381	0.006140	-16.0	2.96E-03	1.04E-02
722	miR-3064-3p(1)	0.000000	0.000078	-16.0	7.75E-02	1.49E-01
723	miR-9STAR(3)	0.000170	0.002884	-16.6	2.41E-03	8.57E-03
724	miR-145(1)	0.166196	2.768055	-16.7	2.97E-03	1.04E-02
725	miR-577(1)	0.000000	0.000088	-18.2	5.97E-02	1.24E-01
728	miR-363STAR(1)	0.000000	0.000080	-18.5	3.49E-02	8.05E-02
729	miR-216b(1)	0.000000	0.000081	-18.9	3.65E-02	8.29E-02
730	miR-2681(1)	0.000000	0.000099	-20.3	4.53E-02	9.95E-02
731	miR-3620-3p(1)	0.000000	0.000097	-20.5	6.98E-02	1.39E-01
733	miR-126-3p(1)	0.055793	1.227377	-22.0	1.05E-07	2.90E-06
734	miR-4772-3p(1)	0.000000	0.000107	-22.3	3.06E-02	7.31E-02
735	miR-9(3)	0.001065	0.024679	-23.0	2.05E-04	1.14E-03
736	miR-3690(2)	0.000000	0.000122	-23.6	6.24E-02	1.28E-01
737	miR-346(1)	0.000000	0.000121	-23.8	4.07E-02	9.12E-02
738	miR-4705(1)	0.000000	0.000115	-24.0	2.79E-02	6.77E-02
739	miR-95STAR(1)	0.000000	0.000114	-24.0	1.23E-01	2.17E-01
740	miR-204STAR(1)	0.000000	0.000115	-25.0	5.84E-02	1.22E-01
741	miR-1976(1)	0.000000	0.000133	-25.1	3.06E-02	7.31E-02
742	miR-873STAR(1)	0.000000	0.000124	-25.6	2.36E-02	6.13E-02
743	miR-873(1)	0.000081	0.002294	-26.5	2.01E-04	1.13E-03
744	miR-99a(1)	0.088938	2.368637	-26.6	1.26E-05	1.29E-04
745	miR-139STAR(1)	0.000206	0.005757	-27.1	4.48E-04	2.21E-03

	A	B	C	D	E	F
746	miR-551b(1)	0.000080	0.002370	-27.2	2.10E-03	7.64E-03
747	miR-204(1)	0.000382	0.010612	-27.6	2.23E-05	2.04E-04
748	miR-1(2)	0.014442	0.407418	-28.2	5.88E-04	2.73E-03
749	miR-429STAR(1	0.000000	0.000130	-28.6	4.29E-02	9.48E-02
750	miR-508STAR(1	0.000000	0.000146	-30.3	1.27E-01	2.22E-01
751	miR-182STAR(1	0.000000	0.000158	-30.5	1.63E-02	4.58E-02
752	miR-192STAR(1	0.000000	0.000145	-31.6	3.29E-02	7.67E-02
753	miR-101-1STAR	0.000497	0.016112	-32.0	4.71E-07	1.00E-05
754	miR-338-3p(1)	0.001482	0.048033	-32.2	1.39E-05	1.36E-04
755	miR-126-5p(1)	0.010205	0.337820	-33.1	8.24E-08	2.50E-06
756	miR-3130-5p(1)	0.000000	0.000165	-33.6	5.19E-02	1.10E-01
757	miR-506(1)	0.000040	0.001591	-34.6	8.87E-04	3.71E-03
758	miR-210(1)	0.015151	0.525164	-34.7	7.12E-07	1.48E-05
759	miR-510-5p(1)	0.000000	0.000184	-35.3	1.98E-02	5.36E-02
760	miR-200cSTAR(	0.000040	0.001640	-35.6	1.57E-03	6.02E-03
761	miR-142-5p(1)	0.003632	0.130366	-35.8	3.21E-05	2.78E-04
762	miR-133b(1)	0.000040	0.001663	-36.3	2.38E-02	6.13E-02
763	miR-99aSTAR(1	0.000266	0.009615	-36.6	1.68E-04	1.01E-03
764	miR-451(1)	0.055214	2.033822	-36.8	2.26E-04	1.24E-03
765	miR-497STAR(1	0.000080	0.003297	-37.9	4.35E-03	1.47E-02
766	miR-135bSTAR(	0.000000	0.000182	-38.1	4.75E-02	1.03E-01
767	miR-218-2STAR	0.000000	0.000188	-39.3	7.42E-03	2.34E-02
768	miR-510-3p(1)	0.000000	0.000193	-40.8	3.20E-02	7.56E-02
769	miR-95(1)	0.000246	0.010486	-41.2	6.84E-06	8.68E-05
770	miR-133a(2)	0.001322	0.055050	-41.4	4.59E-03	1.55E-02
771	miR-183(1)	0.000678	0.031322	-46.0	8.13E-08	2.50E-06
772	miR-1295(1)	0.000000	0.000231	-47.1	5.89E-02	1.23E-01
773	miR-556-5p(1)	0.000000	0.000231	-47.5	7.08E-02	1.41E-01
774	miR-944STAR(1	0.000000	0.000227	-48.6	2.29E-02	5.98E-02
775	miR-372(1)	0.000000	0.000242	-51.6	5.64E-02	1.18E-01

	A	B	C	D	E	F
776	miR-182(1)	0.001667	0.086833	-51.9	2.26E-10	3.55E-08
777	miR-504(1)	0.000085	0.004625	-52.2	2.74E-06	4.40E-05
778	miR-211STAR(1)	0.000000	0.000284	-56.6	6.40E-03	2.06E-02
779	miR-144STAR(1)	0.000763	0.043365	-56.7	2.00E-04	1.13E-03
780	miR-676(1)	0.000000	0.000290	-57.0	2.49E-02	6.26E-02
781	miR-489(1)	0.000000	0.000312	-57.3	3.29E-02	7.67E-02
782	miR-200aSTAR(1)	0.000040	0.002689	-57.8	8.64E-04	3.65E-03
783	miR-20bSTAR(1)	0.000000	0.000283	-59.6	8.07E-04	3.45E-03
784	miR-934(1)	0.000000	0.000293	-59.9	1.78E-02	4.96E-02
785	miR-153(2)	0.000246	0.015426	-60.9	1.69E-04	1.01E-03
786	miR-187(1)	0.000040	0.002871	-62.4	1.34E-05	1.33E-04
787	miR-153-2STAR(1)	0.000000	0.000302	-62.9	1.79E-02	4.98E-02
788	miR-135a(2)	0.000000	0.000312	-63.6	6.29E-04	2.89E-03
789	miR-129-1-3p(1)	0.000000	0.000325	-67.3	3.62E-03	1.25E-02
790	miR-514b-5p(1)	0.000000	0.000323	-67.7	1.73E-02	4.85E-02
791	miR-183STAR(1)	0.000000	0.000348	-69.0	6.60E-04	3.00E-03
792	miR-141STAR(1)	0.000040	0.003210	-69.5	1.16E-03	4.64E-03
793	miR-2110STAR(1)	0.000000	0.000354	-69.9	2.55E-02	6.36E-02
794	miR-1247STAR(1)	0.000000	0.000364	-73.0	2.45E-02	6.19E-02
795	miR-148aSTAR(1)	0.000161	0.012806	-75.4	5.23E-09	2.96E-07
796	miR-675-3p(1)	0.000040	0.003494	-75.7	2.36E-03	8.47E-03
797	miR-144(1)	0.003959	0.302408	-76.2	1.80E-04	1.03E-03
798	miR-223(1)	0.000457	0.035462	-76.6	2.63E-07	6.39E-06
799	miR-96(1)	0.000251	0.019914	-77.8	3.49E-05	2.86E-04
800	miR-511-5p(2)	0.000000	0.000395	-79.5	1.77E-03	6.55E-03
801	miR-885(1)	0.000000	0.000416	-79.8	4.17E-02	9.26E-02
802	miR-551a(1)	0.000000	0.000402	-83.4	9.51E-04	3.92E-03
803	miR-150STAR(1)	0.000000	0.000427	-84.1	2.37E-03	8.47E-03
804	miR-876-3p(1)	0.000000	0.000414	-85.8	2.70E-02	6.60E-02
805	miR-499STAR(1)	0.000000	0.000444	-91.3	9.22E-03	2.83E-02

	A	B	C	D	E	F
806	miR-150(1)	0.000346	0.033068	-95.6	4.37E-05	3.41E-04
807	miR-675-5p(1)	0.000040	0.004437	-96.1	1.70E-04	1.01E-03
808	miR-1247(1)	0.000045	0.004746	-100.4	7.16E-05	5.16E-04
809	miR-223STAR(1)	0.000000	0.000518	-105.0	2.92E-04	1.56E-03
810	miR-514b-3p(1)	0.000000	0.000564	-114.5	1.28E-03	5.09E-03
811	miR-653-5p(1)	0.000000	0.000623	-117.0	3.86E-03	1.32E-02
812	miR-488(1)	0.000045	0.005602	-118.6	1.26E-04	8.09E-04
813	miR-483-5p(1)	0.000080	0.010535	-120.6	8.03E-04	3.45E-03
814	miR-208a(1)	0.000000	0.000636	-121.3	6.31E-02	1.28E-01
815	miR-363(1)	0.000287	0.037352	-126.9	1.31E-11	6.25E-09
816	miR-944(1)	0.000040	0.005925	-127.8	3.58E-05	2.89E-04
817	miR-211(1)	0.000247	0.034175	-134.8	1.56E-07	3.91E-06
818	miR-876-5p(1)	0.000000	0.000670	-136.8	9.67E-03	2.95E-02
819	miR-513b(1)	0.000000	0.000703	-143.0	1.68E-03	6.33E-03
820	miR-509-3-5p(1)	0.000000	0.000731	-145.8	2.10E-03	7.64E-03
821	miR-513c-3p(1)	0.000000	0.000731	-147.3	5.67E-04	2.66E-03
822	miR-513c-5p(1)	0.000000	0.000757	-154.0	1.92E-03	7.06E-03
823	miR-513a-3p(2)	0.000000	0.000764	-154.4	1.11E-02	3.35E-02
824	miR-513a-5p(2)	0.000000	0.000784	-158.9	4.04E-04	2.02E-03
825	miR-196bSTAR(1)	0.000000	0.000848	-169.3	2.64E-04	1.43E-03
826	miR-3910(1)	0.000000	0.000902	-182.6	1.57E-03	6.02E-03
827	miR-200c(1)	0.003194	0.587965	-183.5	3.10E-06	4.71E-05
828	miR-375(1)	0.000045	0.008830	-186.2	3.00E-05	2.63E-04
829	miR-148a(1)	0.028686	6.204235	-216.2	1.47E-11	6.25E-09
830	miR-200b(1)	0.001955	0.425736	-216.5	3.05E-07	7.20E-06
831	miR-141(1)	0.009787	2.157410	-220.3	3.44E-05	2.86E-04
832	miR-3659(1)	0.000000	0.001347	-269.3	7.35E-04	3.26E-03
833	miR-508(1)	0.000045	0.013871	-293.4	7.31E-05	5.21E-04
834	miR-429(1)	0.000126	0.040148	-308.2	3.58E-08	1.32E-06
835	miR-203(1)	0.019576	6.199758	-316.6	2.53E-06	4.14E-05

	A	B	C	D	E	F
836	miR-205(1)	0.007318	2.430434	-331.7	4.39E-06	6.05E-05
837	miR-210STAR(1)	0.000000	0.001696	-338.1	1.24E-04	8.07E-04
838	miR-585(1)	0.000000	0.001757	-352.8	1.05E-05	1.16E-04
839	miR-196b(1)	0.000201	0.084282	-400.6	4.42E-04	2.20E-03
840	miR-196a(2)	0.000292	0.128007	-431.2	5.51E-04	2.60E-03
841	miR-200a(1)	0.000699	0.305010	-431.4	2.30E-06	3.83E-05
842	miR-203STAR(1)	0.000166	0.084670	-493.5	3.63E-05	2.89E-04
843	miR-514aSTAR(1)	0.000000	0.002487	-498.0	2.36E-03	8.47E-03
844	miR-200bSTAR(1)	0.000000	0.004212	-838.3	1.71E-04	1.01E-03
845	miR-133aSTAR(1)	0.000000	0.005114	-1020.2	1.18E-03	4.72E-03
846	miR-483-3p(1)	0.000000	0.005330	-1067.3	7.58E-04	3.32E-03
847	miR-511-3p(2)	0.000000	0.005414	-1074.4	4.64E-07	1.00E-05
848	miR-205STAR(1)	0.000000	0.005473	-1093.1	1.36E-03	5.33E-03
849	miR-338-5p(1)	0.000000	0.009415	-1875.5	1.24E-05	1.29E-04
850	miR-196a-2STAR(1)	0.000000	0.010971	-2190.5	7.35E-05	5.21E-04
851	miR-509-3p(3)	0.000000	0.016208	-3231.3	1.75E-04	1.02E-03
852	miR-514a(3)	0.000000	0.043465	-8655.0	3.30E-05	2.81E-04

	A	B	C	D	E	F
1		Relative frequency (%)				
2	miRNA	iPSC	NS	Fold change	P Value	FDR
3	miR-302a-5p(1)	7.684089	0.000000	1529696.4	9.10E-16	1.55E-13
4	miR-302b(1)	7.425915	0.000000	1478301.2	3.50E-12	9.02E-11
5	miR-302a-3p(1)	3.136755	0.000000	624445.0	1.36E-16	5.77E-14
6	miR-367(1)	2.118497	0.000000	421736.5	1.17E-11	2.31E-10
7	miR-302c(1)	2.010993	0.000000	400335.7	2.19E-12	6.65E-11
8	miR-302d(1)	3.374166	0.000005	332555.5	5.54E-13	2.14E-11
9	miR-302cSTAR(	0.494700	0.000000	98482.8	2.53E-10	2.76E-09
10	miR-302bSTAR(	0.038129	0.000000	7591.4	8.20E-10	6.90E-09
11	miR-302dSTAR(	0.027499	0.000000	5476.0	5.90E-09	3.86E-08
12	miR-367STAR(1	0.007508	0.000000	1496.8	8.07E-07	2.97E-06
13	miR-448(1)	0.005627	0.000000	1121.9	3.83E-07	1.60E-06
14	miR-1251(1)	0.004903	0.000000	976.5	1.88E-07	8.40E-07
15	miR-1298(1)	0.026168	0.000023	787.1	2.45E-08	1.35E-07
16	miR-371(1)	0.037909	0.000048	605.7	8.89E-08	4.27E-07
17	miR-124STAR(3	0.002861	0.000000	570.3	8.54E-07	3.13E-06
18	miR-105(2)	0.025895	0.000053	385.7	7.15E-09	4.50E-08
19	miR-92a-2STAR	0.001864	0.000000	372.2	1.29E-05	3.56E-05
20	miR-373(1)	0.036836	0.000087	347.3	1.38E-08	7.95E-08
21	miR-498(1)	0.014274	0.000034	326.9	4.24E-09	2.88E-08
22	miR-1911(1)	0.003334	0.000009	222.6	4.69E-07	1.91E-06
23	miR-767(1)	0.009230	0.000029	219.6	9.73E-10	8.03E-09
24	miR-372(1)	0.050289	0.000242	194.2	5.47E-07	2.16E-06
25	miR-1911STAR(	0.000950	0.000000	190.8	9.62E-04	1.76E-03
26	miR-135a-2STA	0.007162	0.000028	190.1	8.07E-07	2.97E-06
27	miR-219-2-3p(1	0.000940	0.000000	188.6	1.14E-03	2.06E-03
28	miR-135a(2)	0.056980	0.000312	178.5	4.57E-12	1.08E-10
29	miR-520f-3p(1)	0.026760	0.000158	178.2	1.03E-09	8.40E-09
30	miR-512-3p(2)	0.096900	0.000636	156.8	2.65E-12	7.61E-11

	A	B	C	D	E	F
31	miR-1912-3p(1)	0.001472	0.000005	143.3	6.39E-05	1.53E-04
32	miR-1323(1)	0.021066	0.000170	128.8	4.54E-06	1.39E-05
33	miR-18bSTAR(1	0.004178	0.000024	126.6	1.66E-08	9.48E-08
34	miR-124(3)	0.064359	0.000618	104.4	8.00E-10	6.87E-09
35	miR-20b(1)	1.286201	0.012596	101.9	1.33E-11	2.57E-10
36	miR-520e-3p(1)	0.001942	0.000015	94.9	1.92E-06	6.52E-06
37	miR-20bSTAR(1	0.027900	0.000283	93.2	5.07E-11	7.56E-10
38	miR-1283-5p(2)	0.016760	0.000257	86.2	6.27E-07	2.43E-06
39	miR-525-5p(1)	0.009729	0.000116	80.6	2.17E-08	1.22E-07
40	miR-519c-3p(1)	0.006297	0.000087	80.3	3.31E-08	1.77E-07
41	miR-577(1)	0.007302	0.000088	80.0	2.04E-07	9.05E-07
42	miR-518d-3p(1)	0.002351	0.000019	77.7	4.31E-06	1.33E-05
43	miR-1276(1)	0.000720	0.000003	76.8	2.31E-05	6.20E-05
44	miR-1264(1)	0.001756	0.000031	72.8	3.84E-04	7.53E-04
45	miR-521-2STAR	0.000362	0.000000	71.6	2.70E-03	4.52E-03
46	miR-1286(1)	0.001909	0.000032	70.3	3.05E-06	9.89E-06
47	miR-520a-5p(1)	0.019326	0.000300	69.8	7.87E-07	2.92E-06
48	miR-18b(1)	0.092921	0.001321	69.4	8.15E-09	5.05E-08
49	miR-1912-5p(1)	0.000650	0.000004	67.1	1.39E-03	2.48E-03
50	miR-498STAR(1	0.000626	0.000003	65.3	2.37E-05	6.33E-05
51	miR-551aSTAR(	0.000301	0.000000	61.4	1.61E-03	2.83E-03
52	miR-4802-3p(1)	0.001411	0.000016	55.4	8.99E-05	2.06E-04
53	miR-520e-5p(1)	0.000268	0.000000	54.9	3.81E-04	7.47E-04
54	miR-1304STAR(	0.013171	0.000241	54.6	5.23E-11	7.67E-10
55	miR-518e-5p(5)	0.010572	0.000206	54.5	1.50E-06	5.27E-06
56	miR-3176(1)	0.002929	0.000070	50.8	9.94E-09	6.03E-08
57	miR-371STAR(1	0.000851	0.000009	48.9	5.64E-04	1.06E-03
58	miR-1305(1)	0.003069	0.000062	43.3	7.39E-08	3.65E-07
59	miR-520a-3p(1)	0.004387	0.000131	42.3	8.41E-08	4.08E-07
60	miR-105STAR(2	0.000617	0.000008	42.3	1.52E-03	2.68E-03

	A	B	C	D	E	F
61	miR-92b(1)	0.265836	0.006344	41.8	5.19E-10	4.64E-09
62	miR-519dSTAR(	0.000612	0.000008	41.7	1.13E-05	3.18E-05
63	miR-1910(1)	0.000420	0.000005	41.2	3.30E-03	5.42E-03
64	miR-1298STAR(	0.001236	0.000023	40.7	6.69E-05	1.59E-04
65	miR-3192(1)	0.000418	0.000006	40.1	6.00E-04	1.12E-03
66	miR-522-3p(1)	0.005322	0.000180	38.0	1.14E-08	6.80E-08
67	miR-296-3p(1)	0.041671	0.001093	37.5	8.42E-09	5.15E-08
68	miR-1270(2)	0.022856	0.000617	37.2	3.01E-09	2.10E-08
69	miR-526a-1-3p(	0.000622	0.000026	36.0	5.64E-04	1.06E-03
70	miR-518d-5p(5)	0.005249	0.000157	34.1	3.06E-05	7.89E-05
71	miR-526b-5p(1)	0.006889	0.000218	33.2	2.94E-07	1.26E-06
72	miR-520b-3p(2)	0.007370	0.000257	31.8	7.15E-08	3.62E-07
73	miR-1266(1)	0.001002	0.000035	31.7	4.81E-04	9.23E-04
74	miR-1303(1)	0.005411	0.000172	29.8	9.92E-07	3.57E-06
75	miR-340(1)	0.087920	0.002997	29.3	6.85E-04	1.27E-03
76	miR-363STAR(1	0.002723	0.000080	29.3	6.19E-07	2.41E-06
77	miR-512-5p(2)	0.005807	0.000195	29.2	7.03E-07	2.66E-06
78	miR-519a-1-5p(	0.002630	0.000099	28.9	2.87E-07	1.24E-06
79	miR-3175(1)	0.000453	0.000011	28.8	2.17E-03	3.70E-03
80	miR-3677-3p(1)	0.000920	0.000035	28.7	7.06E-05	1.67E-04
81	miR-1252(1)	0.001011	0.000028	28.6	2.38E-05	6.33E-05
82	miR-873STAR(1	0.003672	0.000124	28.6	7.32E-08	3.65E-07
83	miR-520g-5p(2)	0.000127	0.000000	27.8	3.63E-03	5.93E-03
84	miR-1269(1)	0.000456	0.000023	27.8	5.15E-03	8.09E-03
85	miR-128-1STAR	0.001524	0.000056	27.2	2.55E-05	6.76E-05
86	miR-517STAR(3	0.000786	0.000051	26.0	1.17E-03	2.10E-03
87	miR-767STAR(1	0.000343	0.000007	25.5	5.05E-03	7.98E-03
88	miR-3938(1)	0.000249	0.000006	24.7	5.21E-03	8.15E-03
89	miR-187STAR(1	0.000724	0.000020	24.0	4.68E-03	7.44E-03
90	miR-373STAR(1	0.000221	0.000003	23.8	5.77E-03	8.94E-03

	A	B	C	D	E	F
91	miR-524(1)	0.012191	0.000567	23.6	1.34E-05	3.66E-05
92	miR-18aSTAR(1)	0.028168	0.001185	23.5	4.52E-09	3.03E-08
93	miR-518b-5p(1)	0.000328	0.000007	22.6	2.41E-03	4.07E-03
94	miR-129-5p(2)	0.012402	0.000526	22.6	1.95E-07	8.67E-07
95	miR-3187(1)	0.002451	0.000098	22.1	1.55E-06	5.35E-06
96	miR-363(1)	0.811498	0.037352	21.7	2.81E-11	4.87E-10
97	miR-589-5p(1)	0.008967	0.000413	21.6	8.64E-08	4.17E-07
98	miR-1276STAR(1)	0.000355	0.000023	21.1	6.17E-03	9.52E-03
99	miR-183STAR(1)	0.007249	0.000348	20.9	1.72E-07	7.88E-07
100	miR-517b(1)	0.005904	0.000318	20.2	4.12E-07	1.70E-06
101	miR-3177(1)	0.001348	0.000065	20.0	9.61E-05	2.20E-04
102	miR-187(1)	0.057823	0.002871	19.9	3.22E-07	1.38E-06
103	miR-3664-3p(1)	0.001328	0.000063	19.7	4.18E-03	6.75E-03
104	miR-106a(1)	0.372710	0.018926	19.7	7.51E-10	6.58E-09
105	miR-5094-5p(1)	0.000201	0.000006	19.4	1.32E-02	1.93E-02
106	miR-4746(1)	0.001165	0.000051	19.2	1.89E-04	4.01E-04
107	miR-1908-3p(1)	0.000327	0.000010	18.8	7.29E-03	1.11E-02
108	miR-519d(1)	0.009338	0.000522	18.8	6.95E-09	4.44E-08
109	miR-520d-5p(1)	0.010727	0.000638	18.2	3.47E-05	8.76E-05
110	miR-135bSTAR(1)	0.003365	0.000182	17.6	4.61E-04	8.86E-04
111	miR-135b(1)	0.072418	0.004144	17.4	5.07E-07	2.02E-06
112	miR-106aSTAR(1)	0.009567	0.000539	17.3	2.65E-06	8.67E-06
113	miR-561STAR(1)	0.001845	0.000096	16.8	2.73E-04	5.57E-04
114	miR-520g-3p(2)	0.009700	0.000633	16.7	1.82E-07	8.18E-07
115	miR-523-3p(1)	0.001489	0.000095	16.7	1.62E-05	4.40E-05
116	miR-19b-2STAR(1)	0.000641	0.000029	16.3	4.34E-03	6.96E-03
117	miR-183(1)	0.499232	0.031322	16.0	4.90E-08	2.55E-07
118	miR-592(1)	0.002645	0.000159	15.7	6.12E-06	1.82E-05
119	miR-2467(1)	0.000140	0.000004	15.3	8.79E-03	1.33E-02
120	miR-18a(1)	0.653760	0.043217	15.1	2.38E-06	7.89E-06

	A	B	C	D	E	F
121	miR-1283-2-3p(	0.001651	0.000145	14.8	1.21E-03	2.17E-03
122	miR-19aSTAR(1	0.001538	0.000091	14.4	3.06E-05	7.89E-05
123	miR-518f-3p(1)	0.003996	0.000290	14.1	3.99E-07	1.66E-06
124	miR-130bSTAR(	0.034630	0.002519	13.7	1.07E-08	6.38E-08
125	miR-517a(2)	0.026600	0.002021	13.5	1.25E-06	4.46E-06
126	miR-1284-5p(1)	0.000282	0.000013	13.4	7.39E-03	1.13E-02
127	miR-516b(2)	0.021213	0.001621	13.4	5.23E-04	9.94E-04
128	miR-518b-3p(1)	0.010620	0.000841	13.2	2.20E-08	1.22E-07
129	miR-515(2)	0.020967	0.001635	13.1	1.97E-04	4.16E-04
130	miR-92a(2)	4.304079	0.342477	12.6	1.17E-09	9.19E-09
131	miR-182STAR(1	0.001914	0.000158	12.5	1.70E-04	3.65E-04
132	miR-1303STAR(	0.001245	0.000099	12.3	5.54E-03	8.60E-03
133	miR-521(2)	0.002118	0.000208	12.2	2.35E-04	4.88E-04
134	miR-873(1)	0.027837	0.002294	12.0	1.34E-05	3.66E-05
135	miR-643(1)	0.001518	0.000115	11.9	2.61E-05	6.90E-05
136	miR-19a(1)	1.565625	0.134484	11.6	2.62E-06	8.60E-06
137	miR-519b-3p(1)	0.003216	0.000281	11.6	1.14E-05	3.20E-05
138	miR-518c-5p(1)	0.000564	0.000063	11.4	2.82E-03	4.71E-03
139	miR-20a(1)	1.582837	0.141330	11.2	2.30E-06	7.69E-06
140	miR-518c-3p(1)	0.013122	0.001287	10.6	9.31E-06	2.65E-05
141	miR-519e-3p(1)	0.000231	0.000015	10.3	6.34E-03	9.74E-03
142	miR-561(1)	0.004788	0.000444	10.3	8.72E-05	2.01E-04
143	miR-520f-5p(1)	0.000112	0.000020	10.3	2.44E-02	3.43E-02
144	miR-93(1)	2.969236	0.300083	9.9	1.21E-09	9.35E-09
145	miR-92bSTAR(1	0.006401	0.000639	9.8	5.89E-07	2.31E-06
146	miR-92a-1STAR	0.005557	0.000571	9.7	3.33E-05	8.44E-05
147	miR-96(1)	0.189092	0.019914	9.5	4.10E-04	7.96E-04
148	miR-491STAR(1	0.000844	0.000078	9.3	1.66E-03	2.92E-03
149	miR-589-3p(1)	0.003043	0.000350	9.1	8.63E-07	3.15E-06
150	miR-515STAR(2	0.005676	0.000669	8.8	5.35E-03	8.34E-03

	A	B	C	D	E	F
151	miR-301bSTAR(	0.000195	0.000017	8.4	1.18E-02	1.74E-02
152	miR-519e-5p(1)	0.000922	0.000103	8.4	1.15E-02	1.71E-02
153	miR-942(1)	0.006486	0.000797	8.1	4.13E-06	1.29E-05
154	miR-525-3p(1)	0.001681	0.000250	7.8	2.34E-03	3.96E-03
155	miR-526b-3p(1)	0.001195	0.000168	7.7	1.62E-03	2.85E-03
156	miR-421(1)	0.020001	0.002637	7.6	1.19E-05	3.33E-05
157	miR-548b(1)	0.004152	0.000534	7.6	3.98E-05	9.93E-05
158	miR-524STAR(1	0.000472	0.000064	7.3	2.48E-03	4.16E-03
159	miR-1277-5p(1)	0.007801	0.001050	7.2	7.53E-03	1.15E-02
160	miR-454STAR(1	0.001126	0.000150	7.2	2.46E-03	4.15E-03
161	miR-556-5p(1)	0.001714	0.000231	7.2	2.05E-02	2.93E-02
162	miR-3130-3p(1)	0.000477	0.000059	6.9	1.76E-02	2.54E-02
163	miR-1250(1)	0.000480	0.000060	6.8	2.69E-02	3.77E-02
164	miR-760(1)	0.040234	0.006257	6.4	1.18E-04	2.63E-04
165	miR-4802-5p(1)	0.000217	0.000026	6.4	4.58E-02	6.15E-02
166	miR-449a(1)	0.001556	0.000257	6.2	4.05E-03	6.55E-03
167	miR-651(1)	0.016606	0.002692	6.2	7.57E-05	1.77E-04
168	miR-1226STAR(	0.000152	0.000020	6.2	2.95E-02	4.10E-02
169	miR-3138-3p(1)	0.000227	0.000029	6.1	2.95E-02	4.10E-02
170	miR-3065-3p(1)	0.001696	0.000265	6.0	1.62E-02	2.35E-02
171	miR-182(1)	0.515384	0.086833	5.9	5.02E-07	2.02E-06
172	miR-544-3p(1)	0.002094	0.000345	5.7	1.10E-02	1.64E-02
173	miR-335-3p(1)	0.043976	0.007702	5.7	3.60E-06	1.14E-05
174	miR-520d-3p(1)	0.000989	0.000202	5.7	2.48E-03	4.16E-03
175	miR-130b(1)	0.200925	0.036762	5.5	1.34E-05	3.66E-05
176	miR-3065-5p(1)	0.005635	0.001021	5.5	5.40E-03	8.39E-03
177	miR-615STAR(1	0.003378	0.000613	5.4	3.51E-04	6.96E-04
178	miR-636(1)	0.000375	0.000069	5.3	7.69E-02	9.97E-02
179	miR-877-3p(1)	0.001114	0.000214	5.2	7.67E-03	1.16E-02
180	miR-9(3)	0.128588	0.024679	5.2	3.11E-03	5.14E-03

	A	B	C	D	E	F
181	miR-128(2)	0.118420	0.023197	5.1	3.57E-05	8.96E-05
182	miR-1306-3p(1)	0.001754	0.000340	5.1	3.54E-03	5.80E-03
183	miR-17(1)	2.106523	0.426612	4.9	7.96E-06	2.30E-05
184	miR-1284-3p(1)	0.000112	0.000016	4.9	1.05E-01	1.32E-01
185	miR-301b(1)	0.016642	0.003387	4.9	1.73E-04	3.70E-04
186	miR-505(1)	0.045638	0.009375	4.9	1.03E-04	2.34E-04
187	miR-643STAR(1)	0.000142	0.000020	4.8	5.37E-02	7.10E-02
188	miR-580(1)	0.000600	0.000128	4.8	3.87E-02	5.27E-02
189	miR-545-5p(1)	0.002719	0.000553	4.8	9.17E-03	1.38E-02
190	miR-937(1)	0.000429	0.000083	4.7	8.60E-02	1.11E-01
191	miR-1301(1)	0.011495	0.002428	4.7	2.57E-04	5.29E-04
192	miR-1226(1)	0.001915	0.000397	4.7	2.35E-03	3.97E-03
193	miR-766STAR(1)	0.000286	0.000053	4.7	4.82E-02	6.42E-02
194	miR-3200(1)	0.003289	0.000689	4.7	3.95E-04	7.71E-04
195	miR-421STAR(1)	0.000229	0.000041	4.7	6.01E-02	7.92E-02
196	miR-552-3p(1)	0.000184	0.000033	4.7	9.55E-02	1.22E-01
197	miR-3944-3p(1)	0.000081	0.000012	4.6	6.29E-02	8.26E-02
198	miR-521-1STAR	0.000084	0.000012	4.6	7.31E-02	9.51E-02
199	miR-2355-3p(1)	0.002408	0.000521	4.5	1.15E-03	2.08E-03
200	miR-7(3)	0.129736	0.028887	4.5	2.89E-05	7.54E-05
201	miR-744(1)	0.126403	0.028298	4.5	3.55E-05	8.93E-05
202	miR-330STAR(1)	0.004832	0.001091	4.4	5.01E-05	1.22E-04
203	miR-106bSTAR(1)	0.075888	0.017509	4.3	2.85E-04	5.71E-04
204	miR-1180(1)	0.010204	0.002373	4.3	1.09E-04	2.45E-04
205	miR-1256-3p(1)	0.000306	0.000080	4.2	9.63E-02	1.22E-01
206	miR-653-3p(1)	0.001321	0.000355	4.1	4.40E-02	5.93E-02
207	miR-505STAR(1)	0.002080	0.000500	4.1	1.61E-03	2.84E-03
208	miR-1307-3p(1)	0.054830	0.013433	4.1	2.72E-03	4.54E-03
209	miR-1237(1)	0.000272	0.000065	4.1	8.08E-02	1.04E-01
210	miR-933(1)	0.000161	0.000032	4.0	1.09E-01	1.35E-01

	A	B	C	D	E	F
211	miR-744STAR(1)	0.002273	0.000563	3.9	2.10E-02	2.99E-02
212	miR-25(1)	0.847973	0.216665	3.9	4.85E-05	1.19E-04
213	miR-17STAR(1)	0.350267	0.089634	3.9	6.76E-05	1.61E-04
214	miR-106b(1)	1.749095	0.454747	3.8	2.60E-04	5.33E-04
215	miR-942STAR(1)	0.000291	0.000095	3.8	9.78E-02	1.24E-01
216	miR-1229(1)	0.000257	0.000059	3.7	1.53E-01	1.87E-01
217	miR-1296(1)	0.006853	0.001828	3.7	1.80E-03	3.14E-03
218	miR-301aSTAR(1)	0.000591	0.000148	3.7	6.83E-02	8.90E-02
219	miR-550a-3-5p(1)	0.000115	0.000027	3.5	1.09E-01	1.35E-01
220	miR-32(1)	0.075472	0.022541	3.3	2.18E-02	3.10E-02
221	miR-19b(2)	3.994187	1.201096	3.3	4.52E-04	8.70E-04
222	miR-556-3p(1)	0.000302	0.000097	3.3	1.79E-01	2.14E-01
223	miR-653-5p(1)	0.001939	0.000623	3.3	4.78E-02	6.38E-02
224	miR-516a(2)	0.012710	0.003878	3.3	2.42E-02	3.41E-02
225	miR-206(1)	0.000507	0.000164	3.3	1.98E-01	2.35E-01
226	miR-641-5p(1)	0.001472	0.000446	3.3	4.34E-02	5.86E-02
227	miR-527STAR(1)	0.000374	0.000118	3.3	2.21E-01	2.59E-01
228	miR-3691(1)	0.000187	0.000050	3.2	1.69E-01	2.03E-01
229	miR-3074-5p(1)	0.000601	0.000187	3.2	1.01E-01	1.27E-01
230	miR-519a-2-5p(1)	0.000311	0.000121	3.2	9.15E-02	1.17E-01
231	miR-1278(1)	0.000104	0.000028	3.1	1.70E-01	2.04E-01
232	miR-548k(1)	0.001366	0.000437	3.1	3.96E-03	6.43E-03
233	miR-2276-3p(1)	0.000117	0.000031	3.0	2.16E-01	2.54E-01
234	miR-95STAR(1)	0.000366	0.000114	3.0	1.81E-01	2.15E-01
235	miR-191STAR(1)	0.001056	0.000335	3.0	1.08E-01	1.34E-01
236	miR-1306-5p(1)	0.002217	0.000743	3.0	1.18E-02	1.74E-02
237	miR-551a(1)	0.001235	0.000402	3.0	2.67E-02	3.73E-02
238	miR-504(1)	0.013653	0.004625	2.9	8.00E-03	1.21E-02
239	miR-3679(1)	0.000308	0.000105	2.9	1.01E-01	1.27E-01
240	miR-5187-5p(1)	0.000235	0.000081	2.8	2.47E-01	2.86E-01

	A	B	C	D	E	F
241	miR-4326(1)	0.000863	0.000296	2.8	1.03E-01	1.29E-01
242	miR-4766(1)	0.000215	0.000068	2.8	1.86E-01	2.21E-01
243	miR-518e-3p(1)	0.002363	0.000881	2.8	5.73E-02	7.57E-02
244	miR-877-5p(1)	0.003177	0.001109	2.8	5.37E-03	8.36E-03
245	miR-34c(1)	0.019434	0.007019	2.8	3.68E-02	5.05E-02
246	miR-484(1)	0.057859	0.021025	2.7	2.29E-03	3.90E-03
247	miR-33bSTAR(1)	0.000805	0.000303	2.7	1.07E-01	1.34E-01
248	miR-31-5p(1)	0.002205	0.000859	2.7	4.64E-02	6.22E-02
249	miR-3117(1)	0.000288	0.000101	2.7	1.67E-01	2.02E-01
250	miR-1307-5p(1)	0.127562	0.048654	2.6	9.64E-03	1.45E-02
251	miR-518a-1-3p(1)	0.000725	0.000337	2.6	1.68E-01	2.03E-01
252	miR-518a-2-3p(1)	0.000725	0.000337	2.6	1.68E-01	2.03E-01
253	miR-2116(1)	0.000269	0.000108	2.6	2.34E-01	2.73E-01
254	miR-598(1)	0.010759	0.004197	2.6	1.41E-02	2.05E-02
255	miR-184(1)	0.000753	0.000294	2.5	1.57E-01	1.90E-01
256	miR-296-5p(1)	0.004656	0.001884	2.5	2.43E-02	3.42E-02
257	miR-3158STAR(1)	0.000183	0.000072	2.4	2.97E-01	3.37E-01
258	miR-3677-5p(1)	0.000095	0.000034	2.4	2.62E-01	3.01E-01
259	miR-21STAR(1)	0.018751	0.007978	2.3	3.63E-02	5.00E-02
260	miR-374bSTAR(1)	0.002807	0.001234	2.3	7.63E-02	9.90E-02
261	miR-345STAR(1)	0.000237	0.000094	2.3	2.61E-01	3.01E-01
262	miR-34cSTAR(1)	0.000404	0.000173	2.3	2.38E-01	2.78E-01
263	miR-769(1)	0.075451	0.033268	2.3	7.08E-03	1.08E-02
264	miR-671-3p(1)	0.001845	0.000814	2.3	1.08E-01	1.34E-01
265	miR-1287(1)	0.004031	0.001770	2.3	4.23E-02	5.74E-02
266	miR-1228-5p(1)	0.000086	0.000034	2.2	3.55E-01	3.95E-01
267	miR-518a-5p(3)	0.004260	0.001947	2.2	1.95E-01	2.31E-01
268	miR-323bSTAR(1)	0.001432	0.000648	2.2	9.44E-02	1.20E-01
269	miR-361-5p(1)	0.095378	0.042867	2.2	5.11E-02	6.79E-02
270	miR-301a(1)	0.054186	0.024391	2.2	4.24E-02	5.74E-02

	A	B	C	D	E	F
271	miR-1304(1)	0.000449	0.000189	2.2	2.84E-01	3.24E-01
272	miR-1908-5p(1)	0.000203	0.000082	2.2	3.15E-01	3.56E-01
273	miR-597(1)	0.000975	0.000437	2.2	2.95E-01	3.35E-01
274	miR-34bSTAR(1)	0.000264	0.000138	2.2	3.20E-01	3.61E-01
275	miR-550-5p(2)	0.001190	0.000554	2.2	5.70E-02	7.54E-02
276	miR-339-5p(1)	0.017720	0.008251	2.1	1.84E-02	2.65E-02
277	miR-93STAR(1)	0.012182	0.005906	2.1	3.86E-02	5.26E-02
278	miR-340STAR(1)	0.002881	0.001439	2.0	3.85E-02	5.26E-02
279	miR-1283-1-3p(1)	0.000005	0.000000	2.0	2.35E-01	2.74E-01
280	miR-374a(1)	0.179338	0.092976	1.9	1.50E-01	1.83E-01
281	miR-676(1)	0.000538	0.000290	1.9	3.48E-01	3.89E-01
282	miR-2277-3p(1)	0.000120	0.000055	1.9	3.91E-01	4.32E-01
283	miR-2116STAR(1)	0.000090	0.000043	1.9	4.27E-01	4.69E-01
284	miR-148aSTAR(1)	0.023740	0.012806	1.9	4.82E-02	6.42E-02
285	miR-365-2STAR(1)	0.000333	0.000187	1.8	4.21E-01	4.63E-01
286	miR-185STAR(1)	0.001552	0.000837	1.8	2.72E-01	3.12E-01
287	miR-876-3p(1)	0.000770	0.000414	1.8	4.37E-01	4.79E-01
288	miR-34aSTAR(1)	0.000961	0.000551	1.8	2.95E-01	3.35E-01
289	miR-769STAR(1)	0.001979	0.001108	1.8	1.75E-01	2.10E-01
290	miR-624-5p(1)	0.000456	0.000254	1.7	4.94E-01	5.32E-01
291	miR-345(1)	0.027840	0.016249	1.7	4.49E-02	6.04E-02
292	miR-545-3p(1)	0.002281	0.001364	1.7	4.11E-01	4.54E-01
293	miR-3130-5p(1)	0.000277	0.000165	1.7	4.54E-01	4.94E-01
294	miR-1277-3p(1)	0.005615	0.003394	1.6	4.87E-01	5.26E-01
295	miR-618(1)	0.000457	0.000297	1.6	5.28E-01	5.68E-01
296	miR-887STAR(1)	0.000359	0.000216	1.6	4.56E-01	4.96E-01
297	miR-331STAR(1)	0.003917	0.002426	1.6	1.77E-01	2.12E-01
298	miR-454(1)	0.013373	0.008294	1.6	1.80E-01	2.14E-01
299	miR-32STAR(1)	0.002051	0.001283	1.6	3.63E-01	4.04E-01
300	miR-1227(1)	0.000128	0.000089	1.6	5.46E-01	5.84E-01

	A	B	C	D	E	F
301	miR-3934(1)	0.000682	0.000439	1.6	3.38E-01	3.79E-01
302	miR-3174(1)	0.000044	0.000023	1.5	5.87E-01	6.24E-01
303	miR-3909(1)	0.000311	0.000212	1.5	5.53E-01	5.91E-01
304	miR-548e(1)	0.001938	0.001281	1.5	2.24E-01	2.63E-01
305	miR-489(1)	0.000432	0.000312	1.5	5.61E-01	5.99E-01
306	miR-2355-5p(1)	0.000479	0.000302	1.5	5.22E-01	5.61E-01
307	miR-876-5p(1)	0.001009	0.000670	1.5	5.77E-01	6.15E-01
308	miR-550-3p(3)	0.001323	0.000880	1.5	4.62E-01	5.02E-01
309	miR-130a(1)	1.019139	0.700227	1.5	2.19E-01	2.57E-01
310	miR-374aSTAR(	0.021228	0.014636	1.5	2.97E-01	3.37E-01
311	miR-148bSTAR(	0.003079	0.002163	1.4	3.27E-01	3.67E-01
312	miR-138(2)	0.009022	0.006309	1.4	2.64E-01	3.03E-01
313	miR-151-3p(1)	0.304970	0.216476	1.4	1.18E-01	1.46E-01
314	miR-874(1)	0.031270	0.022289	1.4	3.43E-01	3.84E-01
315	miR-1228-3p(1)	0.000078	0.000055	1.4	6.98E-01	7.30E-01
316	miR-20aSTAR(1	0.009735	0.007158	1.4	4.30E-01	4.72E-01
317	miR-4804STAR(	0.000209	0.000156	1.3	7.14E-01	7.43E-01
318	miR-21(1)	4.969502	3.906535	1.3	3.83E-01	4.25E-01
319	miR-425STAR(1	0.013672	0.010742	1.3	4.74E-01	5.14E-01
320	miR-129-2-3p(1	0.001914	0.001497	1.3	7.12E-01	7.42E-01
321	miR-204(1)	0.013257	0.010612	1.2	5.89E-01	6.26E-01
322	miR-9STAR(3)	0.003555	0.002884	1.2	6.84E-01	7.16E-01
323	miR-1271(1)	0.007862	0.006362	1.2	5.38E-01	5.77E-01
324	miR-30e(1)	0.990653	0.816467	1.2	6.32E-01	6.68E-01
325	miR-34a(1)	0.061136	0.050530	1.2	4.81E-01	5.20E-01
326	miR-222(1)	0.556614	0.460232	1.2	3.87E-01	4.28E-01
327	miR-486STAR(1	0.000625	0.000522	1.2	7.83E-01	8.07E-01
328	miR-34b(1)	0.001150	0.000970	1.2	8.16E-01	8.35E-01
329	miR-629(1)	0.016693	0.014654	1.1	7.23E-01	7.50E-01
330	miR-939-5p(1)	0.000078	0.000066	1.1	8.57E-01	8.72E-01

	A	B	C	D	E	F
331	miR-3157-5p(1)	0.000143	0.000119	1.1	8.99E-01	9.11E-01
332	miR-423-3p(1)	0.266702	0.242042	1.1	7.42E-01	7.68E-01
333	miR-5187-3p(1)	0.000086	0.000081	1.1	9.03E-01	9.13E-01
334	miR-99bSTAR(1)	0.007295	0.006728	1.1	7.81E-01	8.05E-01
335	miR-374b(1)	0.075812	0.070434	1.1	8.47E-01	8.65E-01
336	miR-3158(1)	0.000688	0.000669	1.0	9.45E-01	9.53E-01
337	miR-33a(1)	0.037935	0.036658	1.0	9.17E-01	9.27E-01
338	miR-1193-5p(1)	0.000000	0.000000	0.0	1.00E+00	1.00E+00
339	miR-137STAR(1)	0.000000	0.000000	0.0	1.00E+00	1.00E+00
340	miR-3120(1)	0.000000	0.000000	0.0	1.00E+00	1.00E+00
341	miR-488(1)	0.005595	0.005602	-1.0	9.97E-01	1.00E+00
342	miR-1468(1)	0.000496	0.000497	-1.0	9.94E-01	9.99E-01
343	miR-103(2)	1.720077	1.739549	-1.0	9.75E-01	9.81E-01
344	miR-491(1)	0.002072	0.002142	-1.0	9.47E-01	9.53E-01
345	miR-1292(1)	0.000607	0.000656	-1.1	9.21E-01	9.29E-01
346	miR-29b-1STAR	0.000209	0.000228	-1.1	8.99E-01	9.11E-01
347	miR-194(2)	0.017956	0.019662	-1.1	7.93E-01	8.16E-01
348	miR-508STAR(1)	0.000129	0.000146	-1.1	8.99E-01	9.11E-01
349	miR-222STAR(1)	0.001763	0.001989	-1.1	8.51E-01	8.69E-01
350	miR-503(1)	0.018703	0.021247	-1.1	7.17E-01	7.45E-01
351	miR-33b(1)	0.005386	0.006140	-1.1	8.12E-01	8.31E-01
352	miR-605-3p(1)	0.000108	0.000131	-1.1	8.54E-01	8.70E-01
353	miR-501-3p(1)	0.006604	0.007598	-1.2	6.21E-01	6.58E-01
354	miR-590-3p(1)	0.005462	0.006382	-1.2	6.77E-01	7.10E-01
355	miR-642-5p(1)	0.000078	0.000107	-1.2	8.58E-01	8.72E-01
356	miR-3659(1)	0.001138	0.001347	-1.2	7.64E-01	7.89E-01
357	miR-625-3p(1)	0.002180	0.002604	-1.2	6.57E-01	6.90E-01
358	miR-579-5p(1)	0.000103	0.000127	-1.2	8.07E-01	8.28E-01
359	miR-3064-5p(1)	0.000198	0.000247	-1.2	8.04E-01	8.26E-01
360	miR-103-1STAR	0.000101	0.000134	-1.2	8.02E-01	8.24E-01

	A	B	C	D	E	F
361	miR-30c(2)	0.290759	0.359491	-1.2	4.64E-01	5.04E-01
362	miR-101(2)	0.877438	1.097522	-1.3	4.46E-01	4.88E-01
363	miR-16-1STAR(	0.002068	0.002595	-1.3	6.51E-01	6.85E-01
364	miR-708STAR(1	0.005517	0.006943	-1.3	6.19E-01	6.56E-01
365	miR-425(1)	0.079724	0.101433	-1.3	3.70E-01	4.10E-01
366	miR-100STAR(1	0.000300	0.000374	-1.3	7.57E-01	7.83E-01
367	miR-191(1)	0.391448	0.501781	-1.3	2.29E-01	2.67E-01
368	miR-365-1STAR	0.000499	0.000652	-1.3	7.05E-01	7.35E-01
369	miR-548bSTAR(	0.000153	0.000198	-1.3	7.01E-01	7.32E-01
370	miR-766(1)	0.000912	0.001239	-1.3	5.67E-01	6.04E-01
371	miR-219-5p(2)	0.001133	0.001526	-1.3	7.20E-01	7.47E-01
372	miR-155(1)	0.006606	0.008889	-1.3	3.15E-01	3.56E-01
373	miR-33aSTAR(1	0.002480	0.003343	-1.4	4.89E-01	5.27E-01
374	miR-579-3p(1)	0.000089	0.000137	-1.4	6.60E-01	6.93E-01
375	miR-629STAR(1	0.000379	0.000540	-1.4	6.25E-01	6.61E-01
376	miR-2110STAR(	0.000243	0.000354	-1.4	6.35E-01	6.69E-01
377	miR-1295(1)	0.000158	0.000231	-1.4	6.52E-01	6.86E-01
378	miR-628-3p(1)	0.000585	0.000862	-1.4	5.30E-01	5.69E-01
379	miR-501-5p(1)	0.001585	0.002306	-1.5	2.98E-01	3.37E-01
380	miR-574-5p(1)	0.012944	0.019050	-1.5	2.10E-01	2.48E-01
381	miR-659(1)	0.000117	0.000161	-1.5	5.91E-01	6.28E-01
382	miR-551b(1)	0.001545	0.002370	-1.5	4.42E-01	4.83E-01
383	miR-519a-3p(2)	0.000861	0.001375	-1.5	3.50E-01	3.91E-01
384	miR-221STAR(1	0.009790	0.015258	-1.6	1.94E-01	2.31E-01
385	miR-30c-1STAR	0.001991	0.003174	-1.6	1.59E-01	1.93E-01
386	miR-2277-5p(1)	0.000393	0.000623	-1.6	4.81E-01	5.20E-01
387	miR-486(1)	0.027586	0.044775	-1.6	1.32E-01	1.62E-01
388	miR-331(1)	0.014667	0.025131	-1.7	9.42E-02	1.20E-01
389	miR-200c(1)	0.332052	0.587965	-1.8	2.71E-01	3.11E-01
390	miR-423-5p(1)	0.032579	0.057746	-1.8	9.11E-02	1.17E-01

	A	B	C	D	E	F
391	miR-200cSTAR(	0.000920	0.001640	-1.8	2.91E-01	3.32E-01
392	miR-19b-1STAR	0.001811	0.003227	-1.8	8.41E-02	1.08E-01
393	miR-15bSTAR(1	0.002700	0.004853	-1.8	1.57E-01	1.90E-01
394	miR-1247STAR(	0.000196	0.000364	-1.8	4.12E-01	4.55E-01
395	miR-429(1)	0.022266	0.040148	-1.8	1.44E-01	1.76E-01
396	miR-1249(1)	0.000315	0.000595	-1.8	4.22E-01	4.64E-01
397	miR-151-5p(1)	0.105301	0.193463	-1.8	3.60E-02	4.96E-02
398	miR-30d(1)	0.282681	0.526805	-1.9	2.73E-02	3.81E-02
399	miR-16-2STAR(	0.003242	0.006071	-1.9	1.06E-01	1.32E-01
400	miR-324-3p(1)	0.010550	0.020069	-1.9	8.42E-02	1.08E-01
401	miR-548eSTAR(	0.000216	0.000428	-1.9	3.68E-01	4.09E-01
402	miR-628-5p(1)	0.000706	0.001369	-1.9	2.04E-01	2.40E-01
403	miR-99b(1)	0.118491	0.227580	-1.9	1.67E-02	2.42E-02
404	miR-499(1)	0.001532	0.002963	-1.9	4.47E-01	4.88E-01
405	miR-192(1)	0.017171	0.033213	-1.9	4.34E-02	5.86E-02
406	miR-652(1)	0.025579	0.049542	-1.9	3.81E-02	5.22E-02
407	miR-330(1)	0.004823	0.009389	-1.9	2.40E-02	3.39E-02
408	miR-217STAR(1	0.000000	0.000004	-1.9	2.43E-01	2.82E-01
409	miR-216aSTAR(	0.000000	0.000004	-1.9	2.43E-01	2.82E-01
410	miR-7-1STAR(1	0.001382	0.002774	-2.0	3.69E-02	5.06E-02
411	miR-627-5p(1)	0.001854	0.003777	-2.0	1.36E-01	1.67E-01
412	miR-140(1)	0.158634	0.330303	-2.1	4.03E-02	5.48E-02
413	miR-532-5p(1)	0.024194	0.050390	-2.1	1.36E-02	1.99E-02
414	miR-3152STAR(	0.000000	0.000006	-2.1	2.43E-01	2.82E-01
415	miR-30bSTAR(1	0.000708	0.001474	-2.1	2.44E-01	2.82E-01
416	miR-339-3p(1)	0.012090	0.025375	-2.1	2.80E-02	3.90E-02
417	miR-221(1)	0.531319	1.118186	-2.1	7.56E-03	1.15E-02
418	miR-4636-5p(1)	0.000117	0.000244	-2.1	3.40E-01	3.81E-01
419	miR-186(1)	0.205624	0.435912	-2.1	2.25E-02	3.19E-02
420	miR-141STAR(1	0.001506	0.003210	-2.1	1.97E-01	2.34E-01

	A	B	C	D	E	F
421	miR-378STAR(1	0.004692	0.010110	-2.2	3.46E-02	4.78E-02
422	miR-15aSTAR(1	0.000147	0.000329	-2.2	3.32E-01	3.73E-01
423	miR-509-5p(2)	0.000138	0.000330	-2.2	3.22E-01	3.63E-01
424	miR-140STAR(1	0.028556	0.062430	-2.2	6.80E-02	8.88E-02
425	miR-624-3p(1)	0.000157	0.000366	-2.2	2.60E-01	3.01E-01
426	miR-1296STAR(	0.000086	0.000205	-2.3	2.75E-01	3.15E-01
427	miR-15b(1)	0.036179	0.083943	-2.3	2.12E-02	3.01E-02
428	miR-28-3p(1)	0.057166	0.132554	-2.3	4.37E-03	6.99E-03
429	miR-197(1)	0.011403	0.026610	-2.3	6.72E-03	1.03E-02
430	miR-188(1)	0.002595	0.006137	-2.4	3.11E-02	4.31E-02
431	miR-29b(2)	0.044047	0.106145	-2.4	1.32E-02	1.93E-02
432	miR-2110(1)	0.001618	0.004034	-2.5	8.84E-03	1.33E-02
433	miR-1287STAR(	0.000246	0.000628	-2.5	2.03E-01	2.40E-01
434	miR-6720-3p(1)	0.000147	0.000348	-2.5	2.70E-01	3.10E-01
435	miR-107(1)	0.042240	0.107598	-2.5	3.19E-03	5.25E-03
436	miR-885(1)	0.000161	0.000416	-2.5	2.83E-01	3.23E-01
437	miR-30dSTAR(1	0.002347	0.006134	-2.6	4.05E-03	6.55E-03
438	miR-3605-5p(1)	0.000129	0.000344	-2.6	1.56E-01	1.90E-01
439	miR-4725-3p(1)	0.000000	0.000006	-2.7	9.89E-02	1.25E-01
440	miR-375(1)	0.003273	0.008830	-2.7	6.77E-02	8.86E-02
441	miR-342STAR(1	0.000998	0.002756	-2.7	7.77E-02	1.01E-01
442	miR-449c(1)	0.000000	0.000007	-2.7	9.89E-02	1.25E-01
443	miR-3919-3p(1)	0.000000	0.000007	-2.7	9.89E-02	1.25E-01
444	miR-496STAR(1	0.000000	0.000007	-2.8	9.89E-02	1.25E-01
445	miR-516STAR(4	0.000015	0.000057	-2.8	1.23E-01	1.51E-01
446	miR-200aSTAR(	0.000967	0.002689	-2.8	8.88E-02	1.14E-01
447	miR-1323STAR(	0.000000	0.000007	-2.8	1.79E-01	2.14E-01
448	miR-361-3p(1)	0.005336	0.015206	-2.8	4.01E-04	7.81E-04
449	miR-576-3p(1)	0.000938	0.002710	-2.9	5.05E-02	6.72E-02
450	miR-502STAR(1	0.000475	0.001356	-2.9	6.27E-02	8.26E-02

	A	B	C	D	E	F
451	miR-134(1)	0.007904	0.022972	-2.9	3.72E-03	6.05E-03
452	miR-3605-3p(1)	0.000131	0.000402	-2.9	1.30E-01	1.60E-01
453	miR-141(1)	0.731961	2.157410	-2.9	9.24E-02	1.18E-01
454	miR-188STAR(1)	0.000433	0.001280	-3.0	1.56E-01	1.89E-01
455	miR-576-5p(1)	0.000739	0.002288	-3.0	1.01E-01	1.26E-01
456	miR-23aSTAR(1)	0.000183	0.000540	-3.1	1.39E-01	1.70E-01
457	miR-660(1)	0.012376	0.038638	-3.1	2.91E-03	4.83E-03
458	miR-101-2STAR	0.000131	0.000439	-3.3	1.23E-01	1.51E-01
459	miR-378(1)	0.381090	1.254631	-3.3	1.45E-04	3.17E-04
460	miR-708(1)	0.029760	0.101922	-3.4	9.48E-04	1.74E-03
461	miR-616-5p(1)	0.000059	0.000179	-3.4	1.27E-01	1.56E-01
462	miR-148b(1)	0.169437	0.583764	-3.4	2.06E-04	4.31E-04
463	miR-590-5p(1)	0.001729	0.005960	-3.5	4.76E-02	6.37E-02
464	miR-193bSTAR(1)	0.001985	0.006890	-3.5	3.60E-04	7.09E-04
465	miR-31-3p(1)	0.000091	0.000409	-3.5	5.35E-02	7.10E-02
466	miR-324-5p(1)	0.012334	0.043546	-3.5	2.22E-03	3.78E-03
467	miR-887(1)	0.004872	0.017209	-3.5	3.77E-03	6.12E-03
468	miR-185(1)	0.029987	0.106179	-3.5	3.45E-04	6.86E-04
469	miR-3912(1)	0.000153	0.000587	-3.6	1.03E-01	1.29E-01
470	miR-450b(1)	0.005455	0.019722	-3.6	3.12E-03	5.14E-03
471	miR-30eSTAR(1)	0.055077	0.199059	-3.6	4.79E-06	1.46E-05
472	miR-16(2)	0.133514	0.485645	-3.6	1.10E-02	1.63E-02
473	miR-95(1)	0.002857	0.010486	-3.7	3.58E-03	5.86E-03
474	miR-29aSTAR(1)	0.000566	0.002069	-3.7	4.11E-02	5.58E-02
475	miR-342(1)	0.022957	0.084378	-3.7	4.25E-06	1.32E-05
476	miR-3928(1)	0.000075	0.000280	-3.7	6.50E-02	8.51E-02
477	miR-125a(1)	0.072553	0.274388	-3.8	1.01E-04	2.31E-04
478	miR-625-5p(1)	0.000954	0.003681	-3.8	5.11E-03	8.06E-03
479	miR-25STAR(1)	0.000104	0.000434	-3.9	7.06E-02	9.19E-02
480	miR-29a(1)	0.189582	0.747467	-3.9	1.18E-02	1.74E-02

	A	B	C	D	E	F
481	miR-148a(1)	1.559933	6.204235	-4.0	4.57E-05	1.13E-04
482	miR-320(1)	0.227942	0.935921	-4.1	1.09E-05	3.07E-05
483	miR-3613(1)	0.003612	0.015455	-4.3	1.60E-04	3.47E-04
484	miR-582STAR(1)	0.000419	0.001879	-4.3	1.38E-02	2.01E-02
485	miR-584(1)	0.000378	0.001676	-4.3	1.09E-02	1.62E-02
486	miR-541-5p(1)	0.000000	0.000014	-4.5	1.96E-02	2.80E-02
487	miR-500-5p(2)	0.000674	0.003151	-4.7	2.17E-03	3.70E-03
488	miR-146bSTAR(1)	0.000179	0.000851	-4.7	6.44E-02	8.44E-02
489	miR-412STAR(1)	0.000000	0.000017	-4.8	1.96E-02	2.80E-02
490	miR-26a-1STAR	0.000138	0.000717	-5.0	2.58E-02	3.61E-02
491	miR-452(1)	0.016743	0.083638	-5.0	5.56E-07	2.19E-06
492	miR-335-5p(1)	0.028057	0.142437	-5.1	6.58E-05	1.57E-04
493	miR-502(1)	0.004223	0.021575	-5.1	5.57E-06	1.67E-05
494	miR-215(1)	0.000151	0.000782	-5.1	3.17E-02	4.38E-02
495	miR-193a-5p(1)	0.006188	0.032347	-5.2	1.23E-05	3.43E-05
496	miR-195STAR(1)	0.000271	0.001450	-5.3	1.44E-02	2.10E-02
497	miR-455-5p(1)	0.005109	0.027205	-5.3	2.76E-04	5.62E-04
498	miR-224(1)	0.016181	0.087400	-5.4	3.10E-05	7.94E-05
499	miR-218(2)	0.020863	0.112763	-5.4	8.09E-06	2.33E-05
500	miR-660STAR(1)	0.000122	0.000695	-5.5	1.88E-02	2.69E-02
501	miR-30a(1)	0.102698	0.577132	-5.6	3.04E-05	7.87E-05
502	miR-181cSTAR(1)	0.001121	0.006388	-5.7	7.36E-05	1.72E-04
503	miR-3155-5p(1)	0.000000	0.000021	-5.7	1.80E-02	2.59E-02
504	miR-323aSTAR(1)	0.000000	0.000021	-5.7	1.25E-02	1.84E-02
505	miR-513a-3p(2)	0.000124	0.000764	-5.9	3.07E-02	4.26E-02
506	miR-1909(1)	0.000000	0.000023	-6.0	1.01E-02	1.52E-02
507	miR-3152(1)	0.000000	0.000021	-6.1	7.37E-03	1.13E-02
508	miR-101-1STAR	0.002648	0.016112	-6.1	1.33E-05	3.66E-05
509	miR-30c-2STAR	0.001090	0.006750	-6.2	1.74E-03	3.05E-03
510	miR-103-2STAR	0.000563	0.003591	-6.2	1.69E-02	2.45E-02

	A	B	C	D	E	F
511	miR-149(1)	0.006948	0.043176	-6.2	5.35E-04	1.01E-03
512	miR-181c(1)	0.004710	0.031415	-6.7	5.49E-05	1.32E-04
513	miR-605-5p(1)	0.000000	0.000026	-6.8	4.26E-03	6.85E-03
514	miR-532-3p(1)	0.003175	0.021982	-6.9	1.40E-06	4.96E-06
515	miR-125aSTAR(	0.000647	0.004496	-7.0	5.15E-04	9.81E-04
516	miR-1294STAR(	0.000000	0.000028	-7.0	9.74E-03	1.46E-02
517	miR-362-5p(1)	0.003788	0.026941	-7.1	3.68E-06	1.16E-05
518	miR-181d(1)	0.001390	0.010029	-7.2	7.25E-08	3.65E-07
519	miR-671-5p(1)	0.001944	0.014035	-7.2	8.80E-04	1.62E-03
520	miR-450a-2STA	0.000172	0.001245	-7.3	1.27E-02	1.87E-02
521	miR-655STAR(1	0.000000	0.000028	-7.3	5.15E-03	8.09E-03
522	miR-190a(1)	0.005187	0.038271	-7.4	5.38E-06	1.62E-05
523	miR-200b(1)	0.057241	0.425736	-7.4	2.11E-04	4.40E-04
524	miR-132(1)	0.001058	0.007960	-7.4	4.97E-04	9.50E-04
525	miR-200a(1)	0.039351	0.305010	-7.8	1.24E-03	2.21E-03
526	miR-4504(1)	0.000000	0.000040	-7.8	5.19E-03	8.14E-03
527	miR-210(1)	0.066752	0.525164	-7.9	7.05E-06	2.05E-05
528	miR-137(1)	0.000201	0.001637	-7.9	4.21E-03	6.78E-03
529	miR-3934STAR(	0.000000	0.000033	-8.0	4.66E-03	7.42E-03
530	miR-636STAR(1	0.000000	0.000043	-8.0	2.42E-02	3.41E-02
531	miR-452STAR(1	0.001740	0.013916	-8.0	2.32E-06	7.75E-06
532	miR-514aSTAR(	0.000305	0.002487	-8.1	1.09E-02	1.63E-02
533	miR-155STAR(1	0.000000	0.000033	-8.2	4.63E-03	7.38E-03
534	miR-1185-1-3p(	0.000179	0.001464	-8.3	5.27E-03	8.24E-03
535	miR-26bSTAR(1	0.000398	0.003454	-8.4	2.08E-03	3.58E-03
536	miR-328(1)	0.000743	0.006316	-8.4	1.98E-05	5.34E-05
537	miR-1271STAR(	0.000019	0.000200	-8.4	6.06E-03	9.36E-03
538	miR-3614-5p(1)	0.000000	0.000036	-8.6	4.74E-03	7.52E-03
539	miR-3619-5p(1)	0.000000	0.000045	-8.9	1.46E-03	2.60E-03
540	miR-3612-5p(1)	0.000000	0.000048	-8.9	1.80E-02	2.59E-02

	A	B	C	D	E	F
541	miR-30b(1)	0.040303	0.361902	-9.0	4.99E-07	2.02E-06
542	miR-5193(1)	0.000000	0.000047	-9.0	2.02E-03	3.49E-03
543	miR-4473-5p(1)	0.000000	0.000036	-9.0	1.91E-03	3.32E-03
544	miR-410STAR(1)	0.000000	0.000035	-9.2	1.15E-02	1.71E-02
545	miR-450a(2)	0.003830	0.035589	-9.3	1.39E-04	3.07E-04
546	miR-542STAR(1)	0.000534	0.005009	-9.3	1.05E-03	1.90E-03
547	miR-3146(1)	0.000000	0.000059	-9.3	4.52E-03	7.22E-03
548	miR-26a(2)	0.585838	5.510154	-9.4	7.79E-07	2.90E-06
549	miR-365(2)	0.007926	0.075080	-9.5	7.29E-05	1.72E-04
550	miR-570-3p(1)	0.000093	0.001044	-9.6	4.96E-03	7.85E-03
551	miR-889STAR(1)	0.000000	0.000040	-9.7	2.85E-03	4.74E-03
552	miR-133aSTAR(1)	0.000526	0.005114	-9.8	6.30E-03	9.70E-03
553	miR-139STAR(1)	0.000578	0.005757	-9.9	1.98E-04	4.17E-04
554	miR-28-5p(1)	0.013528	0.134892	-10.0	3.35E-06	1.08E-05
555	miR-542(1)	0.011762	0.117700	-10.0	4.29E-05	1.07E-04
556	miR-3613STAR(1)	0.000179	0.001825	-10.1	1.82E-03	3.16E-03
557	miR-15a(1)	0.014736	0.156179	-10.6	6.02E-06	1.80E-05
558	miR-23bSTAR(1)	0.000269	0.002962	-10.8	8.55E-04	1.58E-03
559	miR-181a-1STA	0.001364	0.015151	-11.1	1.79E-04	3.82E-04
560	miR-675-3p(1)	0.000304	0.003494	-11.4	2.05E-03	3.52E-03
561	miR-541-3p(1)	0.000000	0.000046	-11.6	5.39E-04	1.02E-03
562	miR-22STAR(1)	0.000813	0.009502	-11.7	2.10E-04	4.38E-04
563	miR-3657(1)	0.000000	0.000047	-11.8	1.42E-03	2.53E-03
564	miR-181b(2)	0.007424	0.088967	-12.0	1.00E-07	4.73E-07
565	miR-3145-3p(1)	0.000000	0.000052	-12.2	1.21E-03	2.17E-03
566	miR-30aSTAR(1)	0.009570	0.117600	-12.3	1.30E-09	9.95E-09
567	miR-147(1)	0.000153	0.001994	-12.3	3.10E-03	5.14E-03
568	miR-338-5p(1)	0.000751	0.009415	-12.4	1.44E-04	3.17E-04
569	miR-1255a-3p(1)	0.000000	0.000063	-12.5	4.82E-04	9.23E-04
570	miR-27aSTAR(1)	0.002189	0.028133	-12.9	5.06E-06	1.53E-05

	A	B	C	D	E	F
571	miR-218-1STAR	0.000307	0.004024	-12.9	2.68E-04	5.49E-04
572	miR-153(2)	0.001169	0.015426	-13.1	1.67E-04	3.60E-04
573	miR-3173(1)	0.000000	0.000074	-13.2	3.42E-03	5.61E-03
574	miR-584STAR(1	0.000000	0.000063	-13.2	9.75E-04	1.77E-03
575	miR-208b(1)	0.000000	0.000067	-13.4	9.72E-02	1.23E-01
576	miR-582(1)	0.000279	0.004051	-13.5	5.40E-04	1.02E-03
577	miR-153-1STAR	0.000000	0.000068	-13.6	2.60E-03	4.36E-03
578	miR-29b-2STAR	0.000213	0.002771	-13.7	9.86E-04	1.79E-03
579	miR-27b(1)	0.157185	2.181145	-13.9	1.88E-11	3.39E-10
580	miR-147STAR(1	0.000000	0.000069	-14.3	2.84E-04	5.71E-04
581	miR-193b(1)	0.013376	0.191975	-14.3	3.38E-09	2.33E-08
582	miR-939-3p(1)	0.000000	0.000063	-14.7	2.02E-03	3.49E-03
583	miR-616-3p(1)	0.000000	0.000066	-15.2	1.18E-03	2.12E-03
584	miR-1245-5p(1)	0.000000	0.000067	-15.8	9.00E-04	1.65E-03
585	miR-4772-5p(1)	0.000000	0.000077	-15.8	1.08E-04	2.44E-04
586	miR-3064-3p(1)	0.000000	0.000078	-16.0	7.30E-04	1.35E-03
587	miR-641-3p(1)	0.000000	0.000078	-16.1	2.81E-04	5.68E-04
588	miR-2114STAR(	0.000000	0.000087	-16.2	9.75E-04	1.77E-03
589	miR-27bSTAR(1	0.001558	0.025288	-16.2	6.69E-07	2.57E-06
590	miR-362-3p(1)	0.000623	0.010505	-16.7	6.50E-06	1.92E-05
591	miR-130aSTAR(	0.000143	0.002516	-16.8	2.46E-04	5.07E-04
592	miR-597STAR(1	0.000000	0.000081	-16.9	4.14E-04	8.02E-04
593	miR-205STAR(1	0.000319	0.005473	-17.0	1.96E-03	3.39E-03
594	miR-323a(1)	0.000161	0.002540	-17.2	2.85E-04	5.71E-04
595	miR-205(1)	0.140921	2.430434	-17.2	7.31E-05	1.72E-04
596	miR-455-3p(1)	0.005954	0.103256	-17.4	6.95E-09	4.44E-08
597	miR-487bSTAR(	0.000000	0.000084	-17.4	3.25E-04	6.48E-04
598	miR-200bSTAR(	0.000235	0.004212	-17.4	1.85E-04	3.94E-04
599	miR-494STAR(1	0.000000	0.000079	-17.7	4.10E-04	7.96E-04
600	miR-22(1)	0.108081	1.986774	-18.4	1.22E-08	7.17E-08

	A	B	C	D	E	F
601	miR-3200STAR(	0.000000	0.000083	-18.5	2.38E-04	4.92E-04
602	miR-4789-3p(1)	0.000000	0.000082	-18.7	1.57E-03	2.77E-03
603	miR-216b(1)	0.000000	0.000081	-18.9	8.64E-05	2.00E-04
604	miR-26b(1)	0.065436	1.258689	-19.2	3.85E-10	3.76E-09
605	miR-24-1STAR(	0.000533	0.010730	-20.1	5.16E-05	1.26E-04
606	miR-2681(1)	0.000000	0.000099	-20.3	1.35E-04	2.99E-04
607	miR-3620-3p(1)	0.000000	0.000097	-20.5	7.14E-04	1.32E-03
608	miR-181a-2STA	0.000872	0.018239	-20.7	4.20E-06	1.31E-05
609	miR-4638-3p(1)	0.000000	0.000110	-21.3	3.20E-04	6.38E-04
610	miR-615(1)	0.000090	0.002115	-21.4	1.23E-04	2.73E-04
611	miR-193a-3p(1)	0.006397	0.137176	-21.4	3.89E-06	1.22E-05
612	miR-26a-2STAR	0.000185	0.004187	-21.6	4.96E-05	1.22E-04
613	miR-652STAR(1	0.000216	0.004870	-21.6	4.20E-04	8.12E-04
614	miR-24-2STAR(	0.001789	0.039122	-21.7	3.67E-07	1.54E-06
615	miR-4772-3p(1)	0.000000	0.000107	-22.3	6.04E-05	1.45E-04
616	miR-194-2STAR	0.000000	0.000115	-22.7	1.67E-04	3.60E-04
617	miR-3126-5p(1)	0.000000	0.000114	-22.7	7.21E-05	1.70E-04
618	miR-656STAR(1	0.000000	0.000104	-23.1	1.44E-04	3.16E-04
619	miR-770(1)	0.000000	0.000104	-23.2	1.32E-04	2.93E-04
620	miR-3690(2)	0.000000	0.000122	-23.6	7.95E-04	1.47E-03
621	miR-346(1)	0.000000	0.000121	-23.8	2.84E-04	5.71E-04
622	miR-4705(1)	0.000000	0.000115	-24.0	1.21E-04	2.71E-04
623	miR-642-3p(1)	0.000000	0.000130	-24.6	2.12E-03	3.63E-03
624	miR-27a(1)	0.064223	1.595913	-24.8	3.04E-12	8.11E-11
625	miR-139(1)	0.001164	0.029298	-25.0	9.00E-08	4.30E-07
626	miR-204STAR(1	0.000000	0.000115	-25.0	5.35E-04	1.01E-03
627	miR-1976(1)	0.000000	0.000133	-25.1	1.07E-04	2.41E-04
628	miR-497STAR(1	0.000124	0.003297	-25.2	1.89E-04	4.01E-04
629	miR-126-5p(1)	0.013166	0.337820	-25.7	5.00E-10	4.52E-09
630	miR-3194-3p(1)	0.000000	0.000115	-25.7	1.67E-04	3.60E-04

	A	B	C	D	E	F
631	miR-665STAR(1	0.000000	0.000117	-25.8	7.72E-05	1.79E-04
632	miR-142-3p(1)	0.005463	0.143444	-26.2	8.16E-10	6.90E-09
633	miR-500b-3p(1)	0.000000	0.000121	-26.6	3.18E-05	8.13E-05
634	miR-138-1STAR	0.000000	0.000135	-26.7	1.03E-04	2.34E-04
635	miR-3136(1)	0.000000	0.000135	-26.8	4.46E-05	1.11E-04
636	miR-4690(1)	0.000000	0.000130	-27.3	3.38E-05	8.54E-05
637	miR-126-3p(1)	0.044755	1.227377	-27.4	6.22E-11	8.67E-10
638	miR-574-3p(1)	0.003165	0.087547	-27.6	4.90E-11	7.44E-10
639	miR-1294(1)	0.000000	0.000134	-27.9	1.02E-05	2.89E-05
640	miR-429STAR(1	0.000000	0.000130	-28.6	3.70E-04	7.27E-04
641	miR-329STAR(2	0.000000	0.000139	-28.9	7.13E-06	2.07E-05
642	miR-1179(1)	0.000000	0.000134	-29.4	2.65E-05	6.94E-05
643	miR-1197(1)	0.000000	0.000141	-29.8	4.60E-06	1.41E-05
644	miR-3940(1)	0.000000	0.000143	-30.5	6.28E-04	1.17E-03
645	miR-122(1)	0.000000	0.000138	-30.5	3.29E-05	8.36E-05
646	miR-192STAR(1	0.000000	0.000145	-31.6	1.63E-04	3.54E-04
647	miR-224STAR(1	0.000179	0.005748	-31.8	1.37E-04	3.03E-04
648	miR-2114(1)	0.000000	0.000151	-32.4	3.07E-04	6.14E-04
649	miR-1537(1)	0.000000	0.000157	-33.1	7.67E-05	1.78E-04
650	miR-497(1)	0.014259	0.479853	-33.6	4.38E-12	1.06E-10
651	miR-510-5p(1)	0.000000	0.000184	-35.3	2.21E-04	4.59E-04
652	miR-219-1-3p(1	0.000000	0.000170	-35.8	6.82E-06	2.00E-05
653	miR-6720-5p(1)	0.000000	0.000179	-37.7	3.80E-05	9.51E-05
654	miR-338-3p(1)	0.001258	0.048033	-38.1	3.44E-08	1.81E-07
655	miR-146b(1)	0.006021	0.230151	-38.2	2.86E-10	2.97E-09
656	miR-668(1)	0.000000	0.000180	-38.9	2.96E-05	7.69E-05
657	miR-432STAR(1	0.000000	0.000187	-39.0	5.39E-05	1.31E-04
658	miR-218-2STAR	0.000000	0.000188	-39.3	1.34E-05	3.66E-05
659	miR-510-3p(1)	0.000000	0.000193	-40.8	5.78E-04	1.08E-03
660	miR-424STAR(1	0.000482	0.020505	-42.0	1.64E-06	5.62E-06

	A	B	C	D	E	F
661	miR-299-3p(1)	0.000154	0.005897	-42.0	2.63E-05	6.92E-05
662	miR-758STAR(1)	0.000000	0.000215	-42.1	1.52E-06	5.30E-06
663	miR-24(2)	0.144859	6.159087	-42.5	1.75E-12	5.72E-11
664	miR-1185-2-3p(1)	0.000000	0.000206	-42.7	3.10E-05	7.94E-05
665	miR-450bSTAR(1)	0.000000	0.000199	-42.8	5.45E-05	1.32E-04
666	let-7a-2STAR(1)	0.000000	0.000220	-43.9	1.41E-06	4.98E-06
667	miR-4636-3p(1)	0.000000	0.000223	-45.6	6.60E-06	1.95E-05
668	miR-485-5p(1)	0.000104	0.005173	-45.8	1.11E-05	3.13E-05
669	miR-146a(1)	0.005685	0.260436	-45.8	7.06E-08	3.60E-07
670	miR-133a(2)	0.001166	0.055050	-46.6	1.56E-04	3.41E-04
671	miR-181a(2)	0.015288	0.714227	-46.7	6.27E-12	1.33E-10
672	miR-29c(1)	0.002339	0.110747	-47.1	1.81E-08	1.03E-07
673	miR-944STAR(1)	0.000000	0.000227	-48.6	3.59E-04	7.09E-04
674	miR-216a(1)	0.000000	0.000261	-49.3	1.61E-05	4.38E-05
675	miR-514a(3)	0.000796	0.043465	-53.5	2.42E-05	6.44E-05
676	miR-211STAR(1)	0.000000	0.000284	-56.6	4.95E-05	1.22E-04
677	miR-934(1)	0.000000	0.000293	-59.9	2.72E-04	5.56E-04
678	miR-433STAR(1)	0.000000	0.000288	-59.9	8.22E-06	2.36E-05
679	miR-134STAR(1)	0.000000	0.000291	-60.6	3.50E-06	1.12E-05
680	miR-483-3p(1)	0.000095	0.005330	-61.4	5.21E-05	1.27E-04
681	miR-3194-5p(1)	0.000000	0.000316	-61.6	1.52E-06	5.30E-06
682	miR-196a(2)	0.002097	0.128007	-61.7	1.98E-04	4.17E-04
683	miR-503STAR(1)	0.000000	0.000302	-61.8	2.72E-07	1.18E-06
684	miR-142-5p(1)	0.002093	0.130366	-62.0	3.06E-08	1.65E-07
685	miR-585STAR(1)	0.000000	0.000314	-62.5	6.76E-06	1.99E-05
686	miR-153-2STAR(1)	0.000000	0.000302	-62.9	1.14E-04	2.56E-04
687	miR-383(1)	0.000000	0.000330	-64.6	3.93E-06	1.23E-05
688	miR-125b(2)	0.022104	1.442813	-65.3	2.56E-14	2.18E-12
689	miR-495STAR(1)	0.000000	0.000326	-66.1	1.60E-06	5.51E-06
690	miR-129-1-3p(1)	0.000000	0.000325	-67.3	6.22E-06	1.85E-05

	A	B	C	D	E	F
691	miR-514b-5p(1)	0.000000	0.000323	-67.7	2.79E-04	5.65E-04
692	miR-29cSTAR(1)	0.000101	0.007987	-68.6	6.82E-07	2.61E-06
693	miR-570-5p(1)	0.000000	0.000348	-69.4	3.41E-06	1.09E-05
694	miR-217(1)	0.000000	0.000328	-69.4	6.92E-07	2.64E-06
695	miR-181b-2STA	0.000000	0.000341	-69.9	6.98E-07	2.65E-06
696	miR-23b(1)	0.015696	1.110072	-70.7	5.48E-14	3.59E-12
697	miR-196b(1)	0.001180	0.084282	-72.7	8.79E-05	2.02E-04
698	miR-509-3p(3)	0.000200	0.016208	-75.4	2.26E-05	6.07E-05
699	miR-494(1)	0.000225	0.018462	-77.9	2.49E-06	8.25E-06
700	miR-511-5p(2)	0.000000	0.000395	-79.5	2.12E-06	7.17E-06
701	miR-1255a-5p(1)	0.000000	0.000419	-80.7	5.04E-07	2.02E-06
702	miR-508(1)	0.000167	0.013871	-81.6	1.55E-06	5.35E-06
703	miR-150STAR(1)	0.000000	0.000427	-84.1	2.20E-06	7.42E-06
704	miR-543STAR(1)	0.000000	0.000405	-84.3	8.67E-07	3.15E-06
705	miR-483-5p(1)	0.000113	0.010535	-86.1	9.26E-06	2.64E-05
706	miR-150(1)	0.000388	0.033068	-86.3	2.30E-07	1.01E-06
707	miR-499STAR(1)	0.000000	0.000444	-91.3	2.80E-05	7.32E-05
708	miR-195(1)	0.002896	0.280148	-96.4	1.08E-06	3.88E-06
709	miR-3617(1)	0.000000	0.000520	-97.0	2.04E-04	4.28E-04
710	miR-212-5p(1)	0.000000	0.000483	-97.6	8.26E-09	5.09E-08
711	miR-380-3p(1)	0.000000	0.000465	-98.3	3.01E-06	9.81E-06
712	miR-181b-1STA	0.000000	0.000489	-100.2	2.72E-08	1.48E-07
713	miR-380-5p(1)	0.000000	0.000486	-101.1	2.17E-07	9.56E-07
714	miR-655(1)	0.000093	0.011449	-104.9	4.64E-07	1.90E-06
715	miR-223STAR(1)	0.000000	0.000518	-105.0	6.25E-08	3.20E-07
716	miR-544-5p(1)	0.000000	0.000534	-107.8	2.23E-06	7.49E-06
717	miR-627-3p(1)	0.000000	0.000551	-110.1	4.92E-08	2.55E-07
718	miR-514b-3p(1)	0.000000	0.000564	-114.5	1.84E-06	6.29E-06
719	miR-23a(1)	0.015081	1.752847	-116.2	7.97E-13	2.71E-11
720	miR-1(2)	0.003455	0.407418	-117.7	1.75E-07	7.95E-07

	A	B	C	D	E	F
721	miR-208a(1)	0.000000	0.000636	-121.3	1.80E-03	3.13E-03
722	miR-186STAR(1)	0.000006	0.001252	-123.6	2.81E-09	1.97E-08
723	miR-323b(1)	0.000000	0.000613	-125.0	5.27E-07	2.09E-06
724	miR-370STAR(1)	0.000000	0.000643	-129.7	6.60E-09	4.28E-08
725	miR-424(1)	0.014983	1.959808	-130.7	2.60E-13	1.23E-11
726	miR-152(1)	0.005260	0.706678	-134.3	1.72E-13	9.55E-12
727	miR-152STAR(1)	0.000000	0.000680	-138.7	9.27E-08	4.40E-07
728	miR-496(1)	0.000000	0.000675	-140.4	1.44E-07	6.69E-07
729	miR-513b(1)	0.000000	0.000703	-143.0	3.34E-06	1.08E-05
730	miR-509-3-5p(1)	0.000000	0.000731	-145.8	4.87E-06	1.48E-05
731	miR-513c-3p(1)	0.000000	0.000731	-147.3	6.44E-07	2.49E-06
732	miR-665(1)	0.000078	0.011994	-149.4	3.28E-07	1.39E-06
733	miR-513c-5p(1)	0.000000	0.000757	-154.0	4.33E-06	1.33E-05
734	miR-513a-5p(2)	0.000000	0.000784	-158.9	4.10E-07	1.70E-06
735	miR-196bSTAR(1)	0.000000	0.000848	-169.3	4.27E-07	1.76E-06
736	miR-199b-5p(1)	0.003236	0.555891	-171.3	1.46E-10	1.80E-09
737	miR-3910(1)	0.000000	0.000902	-182.6	3.52E-06	1.12E-05
738	miR-379STAR(1)	0.000000	0.000902	-183.8	2.59E-07	1.13E-06
739	let-7a-1STAR(2)	0.000106	0.020190	-186.7	3.02E-08	1.63E-07
740	miR-212-3p(1)	0.000000	0.000972	-194.5	1.04E-09	8.41E-09
741	miR-409-3p(1)	0.000213	0.039162	-198.9	8.94E-07	3.23E-06
742	miR-190b(1)	0.000000	0.001023	-204.8	5.10E-09	3.36E-08
743	miR-381STAR(1)	0.000000	0.001014	-207.0	2.58E-06	8.51E-06
744	miR-487a-5p(1)	0.000000	0.001042	-211.5	1.40E-06	4.96E-06
745	miR-146aSTAR(1)	0.000000	0.001073	-212.1	3.43E-07	1.45E-06
746	let-7a(3)	0.025477	5.578450	-219.0	2.09E-16	5.93E-14
747	miR-539STAR(1)	0.000000	0.001086	-220.7	1.55E-09	1.17E-08
748	miR-431-3p(1)	0.000000	0.001099	-223.9	1.17E-09	9.19E-09
749	miR-485-3p(1)	0.000000	0.001218	-244.1	1.79E-09	1.30E-08
750	let-7cSTAR(1)	0.000000	0.001228	-245.1	2.71E-10	2.86E-09

	A	B	C	D	E	F
751	miR-100(1)	0.005509	1.357119	-245.8	8.59E-11	1.18E-09
752	miR-190aSTAR(1)	0.000000	0.001285	-257.7	1.68E-07	7.73E-07
753	miR-889(1)	0.000000	0.001314	-264.3	7.18E-07	2.70E-06
754	miR-98STAR(1)	0.000000	0.001342	-267.8	1.76E-10	2.02E-09
755	miR-412(1)	0.000000	0.001327	-268.9	7.79E-07	2.90E-06
756	miR-144STAR(1)	0.000147	0.043365	-277.7	3.75E-08	1.97E-07
757	let-7eSTAR(1)	0.000000	0.001491	-297.7	1.70E-10	1.97E-09
758	miR-144(1)	0.000998	0.302408	-300.9	7.53E-08	3.70E-07
759	miR-145STAR(1)	0.000248	0.080254	-305.9	1.32E-07	6.19E-07
760	let-7e(1)	0.001126	0.354065	-313.9	4.31E-10	3.98E-09
761	let-7f-2STAR(1)	0.000000	0.001577	-315.0	4.80E-10	4.39E-09
762	miR-506(1)	0.000000	0.001591	-319.3	1.19E-07	5.58E-07
763	miR-411STAR(1)	0.000000	0.001595	-322.2	8.48E-06	2.43E-05
764	miR-133b(1)	0.000000	0.001663	-335.7	7.65E-05	1.78E-04
765	miR-210STAR(1)	0.000000	0.001696	-338.1	6.20E-08	3.19E-07
766	miR-585(1)	0.000000	0.001757	-352.8	1.65E-09	1.23E-08
767	miR-874STAR(1)	0.000000	0.001778	-357.7	1.25E-08	7.21E-08
768	let-7gSTAR(1)	0.000000	0.001791	-359.6	1.25E-08	7.21E-08
769	miR-10aSTAR(1)	0.000000	0.002125	-419.6	7.07E-09	4.48E-08
770	miR-132STAR(1)	0.000000	0.002129	-423.0	2.42E-10	2.67E-09
771	miR-450a-1STAR(1)	0.000000	0.002140	-429.8	1.55E-07	7.18E-07
772	let-7f-1STAR(1)	0.000000	0.002216	-441.9	1.16E-11	2.31E-10
773	miR-487a-3p(1)	0.000000	0.002475	-497.2	4.24E-10	3.96E-09
774	miR-203STAR(1)	0.000142	0.084670	-531.2	8.30E-08	4.05E-07
775	miR-758(1)	0.000000	0.002915	-586.4	4.67E-11	7.37E-10
776	miR-10b(1)	0.001723	1.007341	-587.3	7.40E-09	4.63E-08
777	miR-337STAR(1)	0.000000	0.003158	-634.7	7.03E-06	2.05E-05
778	miR-493-3p(1)	0.000009	0.009495	-636.9	5.51E-11	7.87E-10
779	miR-431-5p(1)	0.000000	0.003195	-641.4	6.31E-13	2.30E-11
780	miR-376bSTAR(1)	0.000000	0.003442	-689.7	1.25E-10	1.61E-09

	A	B	C	D	E	F
781	miR-369STAR(1	0.000000	0.003531	-707.0	1.02E-08	6.16E-08
782	miR-433(1)	0.000000	0.003524	-707.0	3.72E-09	2.55E-08
783	miR-376cSTAR(	0.000000	0.003720	-745.1	4.32E-11	7.06E-10
784	miR-202(1)	0.000000	0.003797	-754.0	1.23E-08	7.21E-08
785	let-7i(1)	0.002483	1.893000	-765.3	5.04E-14	3.57E-12
786	miR-376a-2-5p(	0.000000	0.003961	-793.0	1.77E-09	1.30E-08
787	miR-98(1)	0.000154	0.112021	-796.5	4.12E-10	3.95E-09
788	miR-154-3p(1)	0.000000	0.004008	-802.1	1.04E-11	2.16E-10
789	miR-656(1)	0.000000	0.004080	-817.7	7.82E-10	6.78E-09
790	let-7d(1)	0.000642	0.535645	-823.5	3.09E-10	3.17E-09
791	miR-543(1)	0.000000	0.004375	-874.9	4.13E-10	3.95E-09
792	miR-675-5p(1)	0.000000	0.004437	-888.6	1.93E-08	1.09E-07
793	miR-377(1)	0.000100	0.097123	-898.5	1.79E-07	8.09E-07
794	miR-410(1)	0.000000	0.004641	-931.2	4.38E-09	2.96E-08
795	miR-1247(1)	0.000000	0.004746	-947.5	5.09E-09	3.36E-08
796	miR-329(2)	0.000000	0.005049	-1009.5	1.63E-11	3.02E-10
797	miR-377STAR(1	0.000000	0.005113	-1022.9	4.19E-10	3.96E-09
798	miR-143(1)	0.010558	10.807826	-1023.4	3.97E-13	1.61E-11
799	miR-511-3p(2)	0.000000	0.005414	-1074.4	5.56E-11	7.87E-10
800	miR-539(1)	0.000000	0.005899	-1174.0	3.72E-10	3.68E-09
801	miR-654STAR(1	0.000000	0.005910	-1180.2	3.79E-13	1.61E-11
802	miR-127STAR(1	0.000106	0.127645	-1181.9	1.69E-09	1.25E-08
803	miR-944(1)	0.000000	0.005925	-1182.6	2.55E-09	1.81E-08
804	miR-199a-3p(3)	0.003531	4.394329	-1243.4	1.81E-15	2.57E-13
805	miR-143STAR(1	0.000143	0.179024	-1246.7	2.18E-09	1.56E-08
806	miR-376a-1-5p(	0.000000	0.006708	-1340.5	4.20E-11	6.99E-10
807	let-7bSTAR(1)	0.000000	0.007252	-1441.9	1.47E-11	2.78E-10
808	let-7f(2)	0.004476	6.594766	-1477.6	7.25E-15	8.80E-13
809	miR-154-5p(1)	0.000000	0.007471	-1492.9	2.14E-09	1.54E-08
810	let-7g(1)	0.001033	1.548657	-1501.2	5.99E-12	1.33E-10

	A	B	C	D	E	F
811	miR-432(1)	0.000000	0.007788	-1556.6	6.10E-12	1.33E-10
812	miR-409-5p(1)	0.000000	0.008299	-1658.5	3.26E-11	5.55E-10
813	miR-10a(1)	0.000086	0.169668	-1665.9	1.41E-10	1.76E-09
814	miR-203(1)	0.003648	6.199758	-1693.9	2.08E-10	2.32E-09
815	miR-127(1)	0.000158	0.312605	-1848.1	9.72E-10	8.03E-09
816	miR-99aSTAR(1)	0.000000	0.009615	-1919.4	1.40E-09	1.07E-08
817	miR-1185-5p(2)	0.000000	0.009892	-1976.1	1.30E-10	1.65E-09
818	miR-382-3p(1)	0.000000	0.010060	-2008.3	1.59E-10	1.91E-09
819	miR-370(1)	0.000000	0.010611	-2119.2	2.62E-10	2.82E-09
820	miR-196a-2STA	0.000000	0.010971	-2190.5	7.39E-08	3.65E-07
821	miR-376a-3p(2)	0.000000	0.011717	-2336.7	5.78E-10	5.12E-09
822	miR-199a-5p(2)	0.000314	0.718565	-2376.5	3.45E-10	3.49E-09
823	miR-376a-A6G-	0.000066	0.140231	-2384.7	3.38E-08	1.80E-07
824	miR-376c(1)	0.000169	0.403952	-2623.5	1.02E-10	1.35E-09
825	miR-493-5p(1)	0.000000	0.014231	-2838.9	2.72E-10	2.86E-09
826	let-7c(1)	0.000386	1.074958	-2921.2	1.54E-10	1.88E-09
827	let-7b(1)	0.000588	1.821666	-3081.6	1.81E-10	2.05E-09
828	let-7iSTAR(1)	0.000000	0.015868	-3164.3	3.74E-12	9.34E-11
829	miR-654(1)	0.000000	0.016450	-3281.2	5.42E-12	1.25E-10
830	miR-214-5p(1)	0.000000	0.016689	-3325.5	1.61E-14	1.71E-12
831	miR-10bSTAR(1)	0.000000	0.016769	-3340.1	1.99E-13	9.97E-12
832	miR-125b-1STA	0.000000	0.017534	-3494.0	6.98E-14	4.24E-12
833	let-7dSTAR(1)	0.000000	0.017735	-3532.6	2.52E-14	2.18E-12
834	miR-337(1)	0.000000	0.018210	-3631.3	1.07E-10	1.40E-09
835	miR-145(1)	0.000722	2.768055	-3818.4	3.62E-10	3.62E-09
836	miR-99a(1)	0.000526	2.368637	-4404.5	5.02E-14	3.57E-12
837	miR-382-5p(1)	0.000000	0.022146	-4415.3	1.62E-10	1.91E-09
838	miR-299-5p(1)	0.000000	0.024095	-4802.2	4.77E-11	7.37E-10
839	miR-495(1)	0.000000	0.027856	-5550.7	3.05E-12	8.11E-11
840	miR-487b(1)	0.000000	0.028308	-5640.4	2.13E-12	6.65E-11

	A	B	C	D	E	F
841	miR-411(1)	0.000000	0.032912	-6557.5	1.16E-09	9.19E-09
842	miR-376b(1)	0.000000	0.033557	-6687.0	1.00E-10	1.35E-09
843	miR-211(1)	0.000000	0.034175	-6804.6	6.48E-13	2.30E-11
844	miR-136-3p(1)	0.000000	0.034857	-6945.1	1.18E-09	9.19E-09
845	miR-223(1)	0.000000	0.035462	-7063.3	2.92E-13	1.30E-11
846	miR-451(1)	0.000276	2.033822	-7245.3	2.63E-11	4.66E-10
847	miR-369(1)	0.000000	0.038361	-7641.7	1.80E-13	9.55E-12
848	miR-379(1)	0.000000	0.044907	-8946.1	2.69E-12	7.61E-11
849	miR-214-3p(1)	0.000004	0.088555	-8978.9	1.78E-17	1.51E-14
850	miR-125b-2STA	0.000000	0.048855	-9728.0	5.80E-16	1.23E-13
851	miR-381(1)	0.000000	0.052020	-10361.7	2.60E-08	1.42E-07
852	miR-136-5p(1)	0.000000	0.064905	-12928.7	4.75E-11	7.37E-10

	A	B	C	D	E	F
1		Relative frequency (%)				
2	Cistron	IH	NS	Fold change	P Value	FDR
3	mir-498(46)	8.887832	0.018084	492.7	3.99E-12	1.27E-09
4	mir-371(3)	0.048568	0.000280	160.2	2.57E-08	9.06E-07
5	mir-208b(1)	0.005862	0.000048	123.8	1.33E-03	1.01E-02
6	mir-1269(1)	0.001509	0.000017	114.1	2.25E-04	1.98E-03
7	mir-636(1)	0.001319	0.000078	17.0	4.48E-03	2.48E-02
8	mir-340(1)	0.051780	0.003127	16.5	8.39E-04	6.65E-03
9	mir-133b(2)	0.016587	0.001304	12.7	6.29E-03	3.17E-02
10	mir-552(1)	0.000274	0.000023	9.7	1.85E-02	7.25E-02
11	mir-3120(1)	0.000051	0.000000	9.0	3.65E-03	2.14E-02
12	mir-642(1)	0.001064	0.000167	6.8	2.77E-02	9.74E-02
13	mir-618(1)	0.001220	0.000218	6.2	2.64E-02	9.59E-02
14	mir-499(1)	0.010199	0.002417	4.3	9.44E-02	2.36E-01
15	mir-195(2)	2.311782	0.542734	4.3	3.65E-05	4.29E-04
16	mir-378(1)	3.760415	0.899292	4.2	1.25E-05	1.80E-04
17	mir-216a(3)	0.001922	0.000477	4.1	1.85E-04	1.67E-03
18	mir-605(1)	0.000490	0.000112	4.1	5.03E-02	1.49E-01
19	mir-140(1)	1.079422	0.278880	3.9	1.76E-04	1.66E-03
20	mir-489(2)	0.003352	0.000921	3.9	1.43E-03	1.03E-02
21	mir-676(1)	0.000830	0.000217	3.6	6.62E-02	1.84E-01
22	mir-1179(1)	0.000372	0.000101	3.5	2.83E-02	9.74E-02
23	mir-30a(4)	5.075092	1.472763	3.4	9.02E-05	9.22E-04
25	mir-10b(1)	2.427585	0.724261	3.4	5.04E-02	1.49E-01
26	mir-330(1)	0.024999	0.007474	3.3	3.89E-05	4.40E-04
28	mir-766(1)	0.002944	0.000925	3.1	2.80E-02	9.74E-02
29	mir-15a(4)	1.575678	0.523296	3.0	7.01E-03	3.27E-02
31	mir-142(1)	0.536212	0.194757	2.8	9.35E-03	4.11E-02
32	mir-29a(4)	1.901693	0.698015	2.7	3.17E-02	1.06E-01
33	mir-486(1)	0.086670	0.031911	2.7	2.22E-03	1.44E-02

	A	B	C	D	E	F
34	mir-181a-1(4)	1.570005	0.595786	2.6	7.35E-04	5.98E-03
35	mir-374a(4)	0.340139	0.130225	2.6	5.70E-03	2.97E-02
36	mir-511-1(2)	0.010751	0.004168	2.6	8.96E-03	4.00E-02
37	mir-4772(1)	0.000366	0.000131	2.5	6.33E-02	1.79E-01
39	mir-1294(1)	0.000289	0.000115	2.5	5.88E-02	1.73E-01
41	mir-202(1)	0.006574	0.002705	2.4	6.13E-02	1.75E-01
42	mir-424(2)	3.495371	1.437491	2.4	3.05E-03	1.90E-02
43	mir-26a-1(2)	9.431300	3.933767	2.4	1.94E-02	7.49E-02
44	mir-22(1)	3.401123	1.419786	2.4	1.30E-02	5.43E-02
45	mir-144(2)	3.972393	1.679495	2.4	6.92E-02	1.91E-01
47	mir-3613(1)	0.027634	0.012200	2.3	6.74E-03	3.27E-02
51	mir-132(2)	0.017232	0.008202	2.1	8.95E-02	2.27E-01
54	mir-339(1)	0.045795	0.023962	1.9	1.71E-02	6.79E-02
55	mir-143(2)	18.460959	9.717483	1.9	8.68E-02	2.24E-01
63	mir-7-1(3)	0.038339	0.022520	1.7	3.99E-02	1.28E-01
68	mir-21(1)	4.600902	2.758412	1.7	3.72E-02	1.22E-01
71	mir-26b(1)	1.467306	0.901023	1.6	7.79E-02	2.06E-01
72	mir-197(1)	0.030880	0.019043	1.6	7.27E-02	1.96E-01
76	mir-126(1)	1.724210	1.103312	1.6	8.90E-02	2.27E-01
81	mir-191(2)	0.674788	0.437943	1.5	1.17E-02	4.99E-02
83	mir-30b(2)	0.969767	0.640463	1.5	6.42E-02	1.80E-01
87	mir-151(1)	0.434570	0.291741	1.5	2.65E-02	9.59E-02
94	mir-25(3)	0.988418	0.706438	1.4	8.19E-02	2.13E-01
98	mir-99b(3)	0.851979	0.617693	1.4	9.94E-02	2.46E-01
203	mir-135a-1(3)	0.764178	1.097216	-1.4	7.29E-02	1.96E-01
215	mir-17(12)	1.144539	1.754327	-1.5	4.18E-02	1.32E-01
219	mir-92b(1)	0.002907	0.004971	-1.6	4.51E-02	1.41E-01
221	mir-345(1)	0.006960	0.011641	-1.7	1.53E-02	6.24E-02
223	mir-130a(1)	0.298740	0.501141	-1.7	3.72E-02	1.22E-01
226	mir-218-1(3)	0.049043	0.084537	-1.7	2.58E-02	9.59E-02

	A	B	C	D	E	F
228	mir-423(2)	0.122116	0.213821	-1.7	1.69E-02	6.79E-02
230	mir-625(1)	0.002431	0.004499	-1.8	6.13E-02	1.75E-01
232	mir-199b(1)	0.785237	1.436779	-1.8	2.66E-02	9.59E-02
240	mir-708(1)	0.038313	0.077210	-2.0	6.81E-03	3.27E-02
241	mir-129-1(2)	0.000911	0.001637	-2.0	7.44E-02	1.98E-01
242	mir-548b(1)	0.000279	0.000522	-2.1	3.92E-02	1.27E-01
243	mir-574(1)	0.034008	0.075915	-2.2	1.19E-03	9.21E-03
245	mir-190a(1)	0.012194	0.028251	-2.3	8.18E-03	3.75E-02
248	mir-652(1)	0.016332	0.038397	-2.3	1.74E-03	1.17E-02
250	mir-582(1)	0.001764	0.004212	-2.4	9.28E-02	2.34E-01
252	mir-324(1)	0.018097	0.045216	-2.5	5.82E-03	2.97E-02
254	mir-1180(1)	0.000671	0.001707	-2.5	3.91E-03	2.25E-02
255	mir-450a-1(4)	0.050561	0.128143	-2.5	5.75E-03	2.97E-02
256	mir-629(1)	0.004122	0.010656	-2.5	5.52E-03	2.97E-02
258	mir-224(2)	0.051852	0.134475	-2.6	2.89E-05	3.53E-04
259	mir-488(1)	0.001406	0.003959	-2.6	4.97E-02	1.49E-01
262	mir-1305(1)	0.000010	0.000046	-2.7	8.16E-02	2.13E-01
263	mir-592(1)	0.000031	0.000112	-2.8	6.10E-02	1.75E-01
266	mir-9-1(3)	0.006251	0.019518	-3.2	4.26E-03	2.41E-02
268	mir-651(1)	0.000600	0.001902	-3.3	1.55E-03	1.07E-02
269	mir-1307(1)	0.012834	0.043879	-3.4	2.51E-04	2.15E-03
270	mir-184(1)	0.000048	0.000206	-3.5	7.26E-02	1.96E-01
272	mir-3136(1)	0.000022	0.000100	-3.6	4.64E-02	1.43E-01
273	mir-1303(1)	0.000036	0.000193	-3.7	1.47E-02	6.07E-02
274	mir-124-1(3)	0.000114	0.000456	-3.7	3.14E-03	1.92E-02
275	mir-33b(1)	0.001140	0.004609	-3.7	6.98E-03	3.27E-02
276	mir-551a(1)	0.000056	0.000288	-3.7	1.01E-02	4.39E-02
277	mir-455(1)	0.024259	0.092868	-3.9	4.18E-05	4.57E-04
278	mir-219-1(2)	0.000311	0.001217	-4.0	2.97E-02	1.01E-01
279	mir-147(1)	0.000357	0.001446	-4.2	4.99E-02	1.49E-01

	A	B	C	D	E	F
280	mir-1277(1)	0.000663	0.003046	-4.4	8.29E-03	3.75E-02
281	mir-148a(1)	0.992754	4.426584	-4.5	1.39E-06	2.45E-05
282	mir-96(3)	0.020593	0.098394	-4.8	1.92E-07	4.05E-06
283	mir-221(2)	0.225647	1.129882	-5.0	2.08E-09	1.65E-07
284	mir-770(1)	0.000011	0.000099	-5.1	2.74E-02	9.74E-02
285	mir-122(1)	0.000018	0.000094	-5.2	2.05E-02	7.82E-02
286	mir-561(1)	0.000130	0.000379	-5.5	2.31E-03	1.46E-02
287	mir-1286(1)	0.000000	0.000028	-5.8	3.18E-02	1.06E-01
288	mir-885(1)	0.000038	0.000359	-6.8	4.56E-02	1.42E-01
289	mir-338(1)	0.005602	0.041242	-7.3	6.00E-06	9.31E-05
290	mir-105-1(3)	0.000002	0.000068	-7.4	1.54E-03	1.07E-02
291	mir-196b(1)	0.008231	0.060593	-7.7	1.23E-02	5.21E-02
292	mir-33a(1)	0.003532	0.028281	-7.9	6.43E-09	4.08E-07
293	mir-873(2)	0.000295	0.002487	-7.9	1.79E-05	2.47E-04
294	mir-3910(1)	0.000067	0.000647	-8.2	3.30E-03	1.98E-02
295	mir-196a-1(3)	0.008961	0.099951	-11.2	6.27E-08	1.78E-06
296	mir-138-1(2)	0.000402	0.004580	-12.7	1.08E-08	5.69E-07
297	mir-3664(1)	0.000000	0.000057	-13.5	2.43E-02	9.16E-02
298	mir-210(1)	0.025416	0.375648	-14.9	1.40E-08	6.34E-07
299	mir-448(5)	0.000000	0.000068	-15.5	6.61E-03	3.27E-02
300	mir-577(1)	0.000000	0.000074	-17.0	1.41E-03	1.03E-02
301	mir-6720(1)	0.000007	0.000376	-18.3	4.54E-03	2.48E-02
302	mir-187(1)	0.000257	0.001995	-18.4	5.46E-07	1.08E-05
303	mir-149(1)	0.001415	0.030756	-21.2	6.74E-08	1.78E-06
304	mir-383(1)	0.000002	0.000241	-22.1	1.78E-04	1.66E-03
305	mir-3659(1)	0.000020	0.000955	-22.7	6.70E-05	7.08E-04
306	mir-4789(1)	0.000000	0.000097	-23.3	2.14E-03	1.42E-02
307	mir-375(1)	0.000431	0.006382	-33.6	3.52E-06	5.88E-05
308	mir-513b(1)	0.000015	0.000544	-39.4	1.09E-04	1.08E-03
309	mir-514b(1)	0.000005	0.000628	-39.5	1.90E-05	2.52E-04

	A	B	C	D	E	F
310	mir-944(1)	0.000143	0.004338	-40.3	5.92E-07	1.10E-05
311	mir-141(2)	0.048698	1.946635	-40.8	6.17E-06	9.31E-05
312	mir-513c(1)	0.000010	0.001057	-41.3	2.16E-05	2.74E-04
313	mir-506(11)	0.001285	0.057655	-46.4	1.00E-07	2.44E-06
314	mir-135b(1)	0.000216	0.003102	-49.9	1.21E-09	1.28E-07
315	mir-934(1)	0.000000	0.000230	-51.1	3.13E-04	2.61E-03
316	mir-200a(3)	0.010407	0.552975	-58.5	6.34E-08	1.78E-06
317	mir-205(1)	0.012556	1.730184	-150.3	1.14E-07	2.59E-06
318	mir-203(1)	0.026031	4.440840	-176.8	2.28E-08	9.04E-07
319	mir-211(1)	0.000184	0.024324	-182.9	1.55E-11	2.45E-09

	A	B	C	D	E	F
1		Relative frequency (%)				
2	Cistron	HUVEC	NS	Fold change	P Value	FDR
3	mir-216a(3)	0.494104	0.000477	1018.8	5.11E-14	5.40E-12
4	mir-31(1)	0.227354	0.000903	263.0	1.59E-10	5.05E-09
5	mir-137(1)	0.078648	0.001172	66.8	3.85E-06	2.30E-05
6	mir-155(1)	0.256853	0.006343	40.4	1.50E-12	9.51E-11
7	mir-1910(1)	0.000375	0.000008	25.9	1.88E-03	5.63E-03
8	mir-3117(1)	0.001774	0.000070	23.2	2.00E-04	7.91E-04
9	mir-643(1)	0.002428	0.000095	22.7	1.13E-07	1.32E-06
10	mir-3176(1)	0.000934	0.000050	22.4	2.55E-07	2.45E-06
11	mir-3152(1)	0.000565	0.000020	21.0	8.10E-05	3.60E-04
12	mir-3938(1)	0.000157	0.000004	18.7	1.05E-02	2.44E-02
13	mir-1252(1)	0.000533	0.000023	18.4	2.39E-04	9.23E-04
14	mir-340(1)	0.055571	0.003127	17.7	9.46E-04	3.16E-03
15	mir-3192(1)	0.000113	0.000004	14.1	6.50E-03	1.64E-02
16	mir-21(1)	36.648663	2.758412	13.3	3.60E-10	1.04E-08
17	mir-3614(1)	0.000686	0.000053	12.8	7.23E-04	2.44E-03
18	mir-3120(1)	0.000056	0.000000	12.6	1.39E-03	4.42E-03
19	mir-3175(1)	0.000134	0.000008	10.9	2.00E-02	4.39E-02
20	mir-7-1(3)	0.240527	0.022520	10.7	5.34E-09	8.46E-08
21	mir-3619(1)	0.000466	0.000045	9.7	4.88E-04	1.74E-03
22	mir-5094(1)	0.000078	0.000004	9.3	5.09E-02	9.72E-02
23	mir-3194(1)	0.002846	0.000311	9.1	2.28E-04	8.94E-04
24	mir-1304(1)	0.002493	0.000306	7.9	1.88E-05	9.32E-05
25	mir-2467(1)	0.000058	0.000002	7.7	4.34E-02	8.49E-02
26	mir-3200(1)	0.004042	0.000543	7.2	1.12E-05	6.02E-05
27	mir-3174(1)	0.000191	0.000021	7.2	2.29E-02	4.94E-02
28	mir-3187(1)	0.000693	0.000087	7.2	3.58E-04	1.32E-03
29	mir-3657(1)	0.000342	0.000041	6.8	5.06E-03	1.35E-02
30	mir-1909(1)	0.000162	0.000019	6.7	4.02E-02	8.07E-02

	A	B	C	D	E	F
31	mir-126(1)	7.269058	1.103312	6.6	4.48E-07	3.82E-06
32	mir-3138(1)	0.000178	0.000021	6.5	3.05E-02	6.41E-02
33	mir-4746(1)	0.000271	0.000037	6.2	1.13E-02	2.60E-02
34	mir-582(1)	0.025808	0.004212	6.1	4.24E-03	1.16E-02
35	mir-1251(1)	0.000026	0.000000	5.7	1.92E-02	4.26E-02
36	mir-4766(1)	0.000333	0.000053	5.6	4.16E-02	8.24E-02
37	mir-3934(1)	0.001853	0.000338	5.5	1.68E-03	5.12E-03
38	mir-1266(1)	0.000137	0.000026	5.5	6.02E-02	1.09E-01
39	mir-34a(1)	0.198525	0.036352	5.5	3.51E-07	3.18E-06
40	mir-3677(1)	0.000281	0.000050	5.5	1.10E-02	2.53E-02
41	mir-130b(2)	0.163074	0.030408	5.4	4.58E-07	3.82E-06
42	mir-584(1)	0.006589	0.001225	5.3	4.37E-03	1.18E-02
43	mir-1908(1)	0.000378	0.000064	5.0	4.99E-02	9.58E-02
44	mir-1284(1)	0.000139	0.000020	5.0	5.57E-02	1.03E-01
45	mir-1276(1)	0.000081	0.000019	4.9	3.96E-02	8.05E-02
46	mir-556(1)	0.001152	0.000235	4.9	5.40E-02	1.01E-01
47	mir-589(1)	0.002431	0.000540	4.6	3.00E-05	1.44E-04
48	mir-2355(1)	0.002731	0.000587	4.5	3.36E-04	1.25E-03
49	mir-1294(1)	0.000536	0.000115	4.5	5.76E-03	1.49E-02
50	mir-3155(1)	0.000086	0.000015	4.4	4.74E-02	9.17E-02
51	mir-628(1)	0.006761	0.001594	4.3	2.12E-03	6.16E-03
52	mir-491(1)	0.006612	0.001570	4.2	3.48E-03	9.85E-03
53	mir-498(46)	0.074012	0.018084	4.1	2.04E-03	5.99E-03
54	mir-579(1)	0.000754	0.000188	4.1	6.38E-02	1.13E-01
55	mir-2276(1)	0.000147	0.000039	4.0	1.39E-01	2.13E-01
56	mir-3177(1)	0.000199	0.000050	3.9	3.59E-02	7.40E-02
57	mir-877(1)	0.003622	0.000949	3.8	1.76E-04	7.07E-04
58	mir-301a(2)	0.086515	0.023255	3.7	2.72E-04	1.03E-03
59	mir-671(1)	0.038246	0.010682	3.6	2.82E-03	8.05E-03
60	mir-221(2)	4.002742	1.129882	3.5	2.97E-06	1.88E-05

	A	B	C	D	E	F
61	mir-1277(1)	0.010679	0.003046	3.5	3.54E-02	7.34E-02
62	mir-3691(1)	0.000132	0.000035	3.3	1.81E-01	2.69E-01
63	mir-374a(4)	0.424865	0.130225	3.3	1.99E-03	5.89E-03
64	mir-3193(1)	0.000037	0.000007	3.3	7.94E-02	1.32E-01
65	mir-1278(1)	0.000100	0.000026	3.2	1.70E-01	2.56E-01
66	mir-3679(1)	0.000255	0.000077	3.2	7.04E-02	1.22E-01
67	mir-449a(3)	0.000671	0.000220	3.2	5.25E-02	9.91E-02
68	mir-3909(1)	0.000504	0.000162	3.2	1.35E-01	2.09E-01
69	mir-3692(1)	0.000083	0.000021	3.2	6.33E-02	1.13E-01
70	mir-29a(4)	2.157933	0.698015	3.1	2.52E-02	5.40E-02
71	mir-361(1)	0.119009	0.041121	2.9	5.35E-03	1.39E-02
72	mir-4709(1)	0.000128	0.000041	2.8	8.65E-02	1.41E-01
73	mir-548(2)	0.004124	0.001531	2.7	5.89E-04	2.01E-03
74	mir-1233(2)	0.000060	0.000019	2.6	2.12E-01	3.09E-01
75	mir-590(1)	0.022289	0.008843	2.5	1.65E-02	3.70E-02
76	mir-3620(1)	0.000183	0.000072	2.4	2.77E-01	3.85E-01
77	mir-1179(1)	0.000273	0.000101	2.4	1.31E-01	2.07E-01
78	mir-4804(1)	0.000287	0.000117	2.4	2.66E-01	3.74E-01
79	mir-3919(1)	0.000019	0.000005	2.3	2.87E-01	3.97E-01
80	mir-208b(1)	0.000125	0.000048	2.3	5.25E-01	6.28E-01
81	mir-151(1)	0.663201	0.291741	2.3	1.43E-04	5.80E-04
82	mir-1303(1)	0.000442	0.000193	2.2	8.31E-02	1.38E-01
83	mir-128-1(2)	0.036517	0.016384	2.2	7.75E-03	1.90E-02
84	mir-103-1(2)	2.719065	1.246508	2.2	5.42E-02	1.01E-01
85	mir-625(1)	0.009737	0.004499	2.2	2.92E-02	6.17E-02
86	mir-15a(4)	1.124539	0.523296	2.1	6.66E-02	1.17E-01
87	mir-1256(1)	0.000123	0.000063	2.1	3.41E-01	4.53E-01
88	mir-345(1)	0.024373	0.011641	2.1	2.49E-03	7.18E-03
89	mir-551a(1)	0.000608	0.000288	2.0	1.41E-01	2.16E-01
90	mir-2116(1)	0.000216	0.000107	2.0	3.35E-01	4.47E-01

	A	B	C	D	E	F
91	mir-937(2)	0.000203	0.000094	2.0	3.75E-01	4.88E-01
92	mir-766(1)	0.001819	0.000925	2.0	2.02E-01	2.97E-01
93	mir-10a(1)	0.232925	0.122253	1.9	2.30E-01	3.35E-01
94	mir-641(1)	0.000727	0.000382	1.9	2.48E-01	3.53E-01
95	mir-3146(1)	0.000068	0.000044	1.9	3.42E-01	4.53E-01
96	mir-122(1)	0.000189	0.000094	1.9	2.90E-01	3.98E-01
97	mir-624(1)	0.000828	0.000440	1.9	4.03E-01	5.14E-01
98	mir-1180(1)	0.003174	0.001707	1.8	6.18E-02	1.11E-01
99	mir-3145(1)	0.000106	0.000055	1.8	4.43E-01	5.53E-01
100	mir-302a(5)	0.000010	0.000004	1.8	4.51E-01	5.61E-01
101	mir-5092(1)	0.000011	0.000004	1.8	5.77E-01	6.63E-01
102	mir-570(1)	0.001774	0.000991	1.8	3.84E-01	4.97E-01
103	mir-1237(1)	0.000083	0.000047	1.8	4.70E-01	5.80E-01
104	mir-942(1)	0.001114	0.000634	1.8	8.68E-02	1.41E-01
105	mir-30a(4)	2.600693	1.472763	1.8	5.49E-02	1.02E-01
106	mir-937(1)	0.000106	0.000059	1.8	5.23E-01	6.28E-01
107	mir-1226(1)	0.000523	0.000297	1.7	2.32E-01	3.36E-01
108	mir-769(1)	0.041683	0.024513	1.7	5.25E-02	9.91E-02
109	mir-1250(1)	0.000085	0.000043	1.7	5.66E-01	6.57E-01
110	mir-1255a(1)	0.000559	0.000350	1.7	3.20E-01	4.33E-01
111	mir-874(1)	0.028093	0.017094	1.6	1.44E-01	2.19E-01
112	mir-193a(5)	0.519704	0.316366	1.6	7.49E-02	1.28E-01
113	mir-5187(1)	0.000182	0.000115	1.6	5.57E-01	6.56E-01
114	mir-17(12)	2.830592	1.754327	1.6	4.33E-02	8.49E-02
115	mir-92b(1)	0.008008	0.004971	1.6	7.93E-02	1.32E-01
116	mir-32(1)	0.026905	0.016909	1.6	2.90E-01	3.98E-01
117	mir-22(1)	2.251490	1.419786	1.6	2.00E-01	2.96E-01
118	mir-3173(1)	0.000100	0.000072	1.5	5.69E-01	6.58E-01
119	mir-659(1)	0.000227	0.000144	1.5	5.95E-01	6.78E-01
120	mir-4638(1)	0.000119	0.000085	1.5	5.20E-01	6.27E-01

	A	B	C	D	E	F
121	mir-1292(1)	0.000692	0.000471	1.5	4.87E-01	5.96E-01
122	mir-933(1)	0.000037	0.000022	1.5	6.66E-01	7.30E-01
123	mir-580(1)	0.000129	0.000091	1.5	6.05E-01	6.83E-01
124	mir-4504(1)	0.000034	0.000028	1.5	5.73E-01	6.61E-01
125	mir-1227(1)	0.000087	0.000064	1.5	6.42E-01	7.13E-01
126	mir-25(3)	1.015875	0.706438	1.4	8.58E-02	1.41E-01
127	mir-186(1)	0.446925	0.312966	1.4	2.62E-01	3.70E-01
128	mir-330(1)	0.010456	0.007474	1.4	2.03E-01	2.98E-01
129	mir-191(2)	0.612686	0.437943	1.4	6.51E-02	1.15E-01
130	mir-616(1)	0.000250	0.000176	1.4	6.79E-01	7.33E-01
131	mir-4326(1)	0.000299	0.000213	1.4	6.24E-01	6.96E-01
132	mir-132(2)	0.011241	0.008202	1.4	4.95E-01	6.03E-01
133	mir-484(1)	0.020172	0.014726	1.4	2.40E-01	3.45E-01
134	mir-651(1)	0.002552	0.001902	1.3	4.18E-01	5.28E-01
135	mir-548b(1)	0.000714	0.000522	1.3	4.16E-01	5.27E-01
136	mir-2277(1)	0.000632	0.000477	1.3	6.56E-01	7.25E-01
137	mir-561(1)	0.000515	0.000379	1.3	5.56E-01	6.56E-01
138	mir-4473(1)	0.000094	0.000070	1.3	6.43E-01	7.13E-01
139	mir-107(1)	0.099741	0.076610	1.3	3.51E-01	4.63E-01
140	mir-744(1)	0.026456	0.020638	1.3	3.89E-01	5.00E-01
141	mir-1286(1)	0.000028	0.000028	1.3	6.71E-01	7.30E-01
142	mir-1301(1)	0.002193	0.001747	1.3	5.18E-01	6.27E-01
143	mir-760(1)	0.005511	0.004431	1.2	5.65E-01	6.57E-01
144	mir-887(1)	0.015128	0.012395	1.2	6.09E-01	6.85E-01
145	mir-1287(1)	0.002078	0.001703	1.2	5.86E-01	6.71E-01
146	let-7i(1)	1.623909	1.353406	1.2	6.18E-01	6.92E-01
147	mir-224(2)	0.156787	0.134475	1.2	4.87E-01	5.96E-01
148	mir-181c(2)	0.038850	0.034252	1.1	6.68E-01	7.30E-01
149	mir-3158(1)	0.000567	0.000526	1.1	8.84E-01	9.13E-01
150	mir-505(1)	0.007633	0.007002	1.1	7.66E-01	8.09E-01

	A	B	C	D	E	F
151	mir-339(1)	0.025995	0.023962	1.1	7.66E-01	8.09E-01
152	mir-196b(1)	0.065785	0.060593	1.1	9.22E-01	9.39E-01
153	mir-181a-1(4)	0.617268	0.595786	1.0	8.97E-01	9.23E-01
154	mir-448(5)	0.000064	0.000068	1.0	9.58E-01	9.69E-01
155	mir-4731(1)	0.000060	0.000061	1.0	9.85E-01	9.89E-01
156	mir-3942(1)	0.000049	0.000052	-1.0	9.99E-01	9.99E-01
157	mir-134(43)	0.844435	0.849155	-1.0	9.83E-01	9.89E-01
158	mir-1307(1)	0.043151	0.043879	-1.0	9.60E-01	9.69E-01
159	mir-3940(1)	0.000105	0.000107	-1.0	9.50E-01	9.65E-01
160	mir-331(1)	0.018642	0.019641	-1.1	8.50E-01	8.84E-01
161	mir-3065(1)	0.000845	0.000901	-1.1	9.17E-01	9.38E-01
162	mir-4772(1)	0.000127	0.000131	-1.1	9.13E-01	9.36E-01
163	mir-550-1(3)	0.000935	0.001049	-1.1	7.12E-01	7.65E-01
164	mir-770(1)	0.000088	0.000099	-1.1	8.51E-01	8.84E-01
165	mir-148b(1)	0.361026	0.417506	-1.2	6.03E-01	6.83E-01
166	mir-598(1)	0.002574	0.002984	-1.2	6.72E-01	7.30E-01
167	mir-1229(1)	0.000035	0.000042	-1.2	8.69E-01	9.00E-01
168	mir-592(1)	0.000092	0.000112	-1.2	7.46E-01	7.97E-01
169	mir-3912(1)	0.000366	0.000452	-1.2	8.20E-01	8.58E-01
170	mir-605(1)	0.000091	0.000112	-1.2	7.85E-01	8.23E-01
171	mir-33b(1)	0.003760	0.004609	-1.2	6.80E-01	7.33E-01
172	mir-629(1)	0.008594	0.010656	-1.2	5.43E-01	6.45E-01
173	mir-185(1)	0.060582	0.075703	-1.2	4.04E-01	5.14E-01
174	mir-618(1)	0.000156	0.000218	-1.3	7.83E-01	8.23E-01
175	mir-99b(3)	0.490629	0.617693	-1.3	2.75E-01	3.84E-01
176	mir-370(1)	0.006345	0.008046	-1.3	5.60E-01	6.57E-01
177	mir-1306(1)	0.000602	0.000771	-1.3	5.11E-01	6.20E-01
178	mir-190b(1)	0.000554	0.000730	-1.3	5.65E-01	6.57E-01
179	mir-3944(1)	0.000019	0.000034	-1.3	7.60E-01	8.08E-01
180	mir-576(1)	0.002626	0.003553	-1.3	5.27E-01	6.28E-01

	A	B	C	D	E	F
181	mir-3613(1)	0.009012	0.012200	-1.4	3.22E-01	4.34E-01
182	mir-636(1)	0.000049	0.000078	-1.4	7.34E-01	7.86E-01
183	mir-4690(1)	0.000066	0.000093	-1.4	6.73E-01	7.30E-01
184	mir-455(1)	0.063613	0.092868	-1.5	2.42E-01	3.45E-01
185	mir-23a(6)	5.871108	9.158310	-1.6	6.90E-02	1.20E-01
186	mir-3157(1)	0.000065	0.000105	-1.6	6.06E-01	6.83E-01
187	mir-33a(1)	0.017819	0.028281	-1.6	1.12E-01	1.80E-01
188	mir-1271(1)	0.002858	0.004676	-1.6	1.36E-01	2.10E-01
189	mir-197(1)	0.011234	0.019043	-1.7	7.09E-02	1.22E-01
190	mir-324(1)	0.026403	0.045216	-1.7	1.32E-01	2.07E-01
191	mir-10b(1)	0.422642	0.724261	-1.7	3.89E-01	5.00E-01
192	mir-342(1)	0.034859	0.061925	-1.8	5.27E-03	1.38E-02
193	mir-423(2)	0.119678	0.213821	-1.8	2.77E-02	5.90E-02
194	mir-1296(1)	0.000799	0.001447	-1.8	1.15E-01	1.84E-01
195	mir-127(8)	0.241254	0.437495	-1.8	2.99E-01	4.08E-01
196	mir-146a(1)	0.097744	0.185724	-1.9	1.66E-01	2.51E-01
197	mir-597(1)	0.000191	0.000361	-1.9	3.75E-01	4.88E-01
198	mir-1537(1)	0.000074	0.000132	-1.9	3.32E-01	4.46E-01
199	mir-3064(1)	0.000113	0.000233	-1.9	4.28E-01	5.36E-01
200	mir-3074(1)	0.000082	0.000164	-2.0	3.64E-01	4.77E-01
201	mir-3605(1)	0.000270	0.000534	-2.0	3.07E-01	4.18E-01
202	mir-2114(1)	0.000081	0.000174	-2.0	3.54E-01	4.66E-01
203	mir-218-1(3)	0.040805	0.084537	-2.1	9.62E-03	2.29E-02
204	mir-98(13)	7.024034	14.868133	-2.1	1.17E-03	3.76E-03
205	mir-5193(2)	0.000010	0.000033	-2.2	4.55E-01	5.64E-01
206	mir-135a-1(3)	0.492732	1.097216	-2.2	1.07E-03	3.46E-03
207	mir-26b(1)	0.402843	0.901023	-2.2	1.02E-02	2.40E-02
208	mir-139(1)	0.011032	0.024784	-2.2	5.93E-03	1.52E-02
209	mir-140(1)	0.117130	0.278880	-2.4	1.31E-02	2.97E-02
210	mir-195(2)	0.222968	0.542734	-2.4	7.36E-03	1.84E-02

	A	B	C	D	E	F
211	mir-574(1)	0.031074	0.075915	-2.4	1.56E-03	4.90E-03
212	mir-188(8)	0.055072	0.136409	-2.5	2.58E-04	9.85E-04
213	mir-147(1)	0.000569	0.001446	-2.5	2.38E-01	3.42E-01
214	mir-26a-1(2)	1.567248	3.933767	-2.5	2.21E-02	4.80E-02
215	mir-130a(1)	0.195024	0.501141	-2.6	1.58E-03	4.90E-03
216	mir-450a-1(4)	0.047362	0.128143	-2.7	9.42E-03	2.26E-02
217	mir-320(1)	0.243392	0.665174	-2.7	3.94E-04	1.44E-03
218	mir-371(3)	0.000106	0.000280	-2.8	1.33E-01	2.08E-01
219	mir-499(1)	0.000880	0.002417	-2.8	2.66E-01	3.74E-01
220	mir-1269(1)	0.000000	0.000017	-2.8	4.22E-01	5.31E-01
221	mir-3136(1)	0.000030	0.000100	-2.8	1.18E-01	1.88E-01
222	mir-30b(2)	0.222767	0.640463	-2.9	1.28E-04	5.40E-04
223	mir-627(1)	0.001018	0.003079	-3.0	2.18E-02	4.76E-02
224	mir-3130(1)	0.000048	0.000160	-3.0	1.73E-01	2.59E-01
225	mir-652(1)	0.012641	0.038397	-3.0	5.10E-04	1.77E-03
226	mir-2110(1)	0.001008	0.003113	-3.1	1.01E-03	3.31E-03
227	mir-138-1(2)	0.001439	0.004580	-3.1	1.59E-03	4.91E-03
228	mir-424(2)	0.445122	1.437491	-3.2	4.87E-04	1.74E-03
229	mir-4789(1)	0.000026	0.000097	-3.2	1.33E-01	2.08E-01
230	mir-192(4)	0.010677	0.038657	-3.6	1.33E-04	5.53E-04
231	mir-1468(1)	0.000092	0.000356	-3.7	7.85E-02	1.32E-01
232	mir-335(1)	0.028070	0.107719	-3.8	1.39E-04	5.71E-04
233	mir-676(1)	0.000054	0.000217	-4.2	8.80E-02	1.42E-01
234	mir-219-1(2)	0.000279	0.001217	-4.3	4.10E-02	8.18E-02
235	mir-28(1)	0.043175	0.190600	-4.4	1.23E-06	8.46E-06
236	mir-1249(1)	0.000092	0.000431	-4.5	7.92E-02	1.32E-01
237	mir-152(1)	0.107055	0.499666	-4.7	3.37E-05	1.59E-04
238	mir-328(1)	0.000925	0.004495	-4.8	4.94E-04	1.74E-03
239	mir-3928(1)	0.000037	0.000209	-5.0	5.65E-02	1.03E-01
240	mir-577(1)	0.000011	0.000074	-5.2	3.14E-02	6.55E-02

	A	B	C	D	E	F
241	mir-296(1)	0.000384	0.002125	-5.5	6.30E-05	2.94E-04
242	mir-378(1)	0.162400	0.899292	-5.5	2.37E-06	1.57E-05
243	mir-101-1(2)	0.126420	0.787835	-6.2	1.41E-06	9.48E-06
244	mir-552(1)	0.000000	0.000023	-6.4	1.50E-01	2.27E-01
245	mir-1976(1)	0.000011	0.000103	-6.6	1.26E-02	2.87E-02
246	mir-2681(2)	0.000018	0.000163	-6.8	8.04E-03	1.96E-02
247	mir-3612(1)	0.000000	0.000035	-7.2	8.57E-02	1.41E-01
248	mir-3126(1)	0.000010	0.000111	-7.3	6.30E-02	1.13E-01
249	mir-129-1(2)	0.000196	0.001637	-8.3	8.19E-05	3.60E-04
250	mir-4802(1)	0.000000	0.000029	-8.5	7.64E-02	1.30E-01
251	mir-204(1)	0.000702	0.007683	-10.6	1.12E-05	6.02E-05
252	mir-1245(2)	0.000017	0.000161	-10.7	7.56E-03	1.87E-02
253	mir-95(1)	0.000649	0.007546	-11.4	8.26E-06	4.59E-05
254	mir-1305(1)	0.000000	0.000046	-11.8	4.39E-03	1.18E-02
255	mir-133b(2)	0.000114	0.001304	-12.5	1.87E-02	4.17E-02
256	mir-149(1)	0.002259	0.030756	-13.5	1.15E-05	6.08E-05
257	mir-3664(1)	0.000000	0.000057	-13.5	4.02E-02	8.07E-02
258	mir-184(1)	0.000010	0.000206	-14.5	5.15E-03	1.36E-02
259	mir-1228(1)	0.000000	0.000062	-15.3	5.68E-02	1.03E-01
260	mir-187(1)	0.000123	0.001995	-15.9	2.87E-06	1.86E-05
261	mir-934(1)	0.000010	0.000230	-15.9	3.90E-03	1.08E-02
262	mir-135b(1)	0.000191	0.003102	-16.1	3.25E-07	3.03E-06
263	mir-208a(1)	0.000021	0.000452	-17.0	3.89E-02	7.95E-02
264	mir-210(1)	0.020637	0.375648	-18.2	1.65E-07	1.73E-06
265	mir-105-1(3)	0.000000	0.000068	-18.4	5.30E-04	1.83E-03
266	mir-3690-1(2)	0.000000	0.000088	-18.6	4.49E-02	8.73E-02
267	mir-346(1)	0.000000	0.000087	-18.7	4.04E-03	1.11E-02
268	mir-34b(2)	0.000272	0.005893	-20.7	1.69E-07	1.73E-06
269	mir-199a-1(3)	0.125732	2.683622	-21.3	5.15E-10	1.26E-08
270	mir-551b(1)	0.000071	0.001660	-21.9	8.45E-05	3.67E-04

	A	B	C	D	E	F
271	mir-190a(1)	0.000933	0.028251	-30.6	1.49E-09	2.95E-08
272	mir-199b(1)	0.044643	1.436779	-32.2	4.19E-11	2.21E-09
273	mir-489(2)	0.000020	0.000921	-34.7	6.59E-07	4.98E-06
274	mir-642(1)	0.000000	0.000167	-35.1	1.05E-02	2.44E-02
275	mir-1295(1)	0.000000	0.000163	-36.3	8.49E-03	2.05E-02
276	mir-486(1)	0.000855	0.031911	-36.9	1.54E-10	5.05E-09
277	mir-143(2)	0.259001	9.717483	-37.5	1.12E-08	1.68E-07
278	mir-9-1(3)	0.000496	0.019518	-38.1	5.70E-08	6.95E-07
279	mir-146b(1)	0.004070	0.165459	-40.5	3.76E-09	7.01E-08
280	mir-202(1)	0.000060	0.002705	-40.6	4.33E-06	2.49E-05
281	mir-504(1)	0.000082	0.003331	-41.1	1.17E-08	1.68E-07
282	mir-1270-1(1)	0.000000	0.000218	-46.8	3.21E-06	1.96E-05
283	mir-1270-2(1)	0.000000	0.000218	-46.8	3.21E-06	1.96E-05
284	mir-383(1)	0.000000	0.000241	-51.4	1.19E-04	5.10E-04
285	mir-338(1)	0.000751	0.041242	-55.0	4.90E-09	8.17E-08
286	mir-196a-1(3)	0.001803	0.099951	-55.4	7.23E-10	1.64E-08
287	mir-153-1(2)	0.000186	0.011377	-62.7	9.35E-07	6.74E-06
288	mir-144(2)	0.026593	1.679495	-63.2	1.59E-07	1.73E-06
289	mir-148a(1)	0.062385	4.426584	-71.0	3.79E-13	3.01E-11
290	mir-873(2)	0.000028	0.002487	-71.7	5.15E-08	6.53E-07
291	mir-4636(1)	0.000000	0.000336	-74.1	9.87E-04	3.26E-03
292	mir-885(1)	0.000000	0.000359	-74.9	3.67E-03	1.03E-02
293	mir-150(1)	0.000318	0.023777	-74.9	5.38E-07	4.28E-06
294	mir-3617(1)	0.000000	0.000373	-75.6	6.14E-03	1.56E-02
295	mir-142(1)	0.002465	0.194757	-79.2	4.72E-10	1.25E-08
296	mir-6720(1)	0.000000	0.000376	-83.4	1.84E-03	5.56E-03
297	mir-124-1(3)	0.000000	0.000456	-97.4	9.86E-07	6.95E-06
298	mir-96(3)	0.000911	0.098394	-107.0	1.59E-14	2.53E-12
299	mir-488(1)	0.000033	0.003959	-110.3	6.30E-07	4.87E-06
300	mir-513b(1)	0.000000	0.000544	-119.9	6.56E-05	3.01E-04

	A	B	C	D	E	F
301	mir-223(1)	0.000219	0.025329	-121.8	8.61E-11	3.47E-09
302	mir-944(1)	0.000024	0.004338	-130.0	4.22E-07	3.72E-06
303	mir-514b(1)	0.000000	0.000628	-137.8	1.46E-05	7.34E-05
304	mir-3910(1)	0.000000	0.000647	-142.1	6.83E-05	3.09E-04
305	mir-1247(1)	0.000020	0.003620	-142.5	4.29E-06	2.49E-05
306	mir-675(1)	0.000050	0.005753	-145.7	2.97E-05	1.44E-04
307	mir-375(1)	0.000034	0.006382	-145.8	5.40E-07	4.28E-06
308	mir-1-1(4)	0.002136	0.329325	-156.1	1.45E-07	1.65E-06
309	mir-3659(1)	0.000000	0.000955	-207.0	1.25E-05	6.43E-05
310	mir-513c(1)	0.000000	0.001057	-230.2	1.26E-05	6.43E-05
311	mir-483(1)	0.000057	0.011713	-239.4	7.42E-06	4.20E-05
312	mir-200a(3)	0.002140	0.552975	-259.1	4.51E-08	6.10E-07
313	mir-511-1(2)	0.000011	0.004168	-274.4	9.69E-10	2.05E-08
314	mir-141(2)	0.004950	1.946635	-391.9	8.00E-07	5.90E-06
315	mir-708(1)	0.000197	0.077210	-402.5	1.18E-15	3.73E-13
316	mir-211(1)	0.000050	0.024324	-437.9	8.77E-11	3.47E-09
317	mir-205(1)	0.002543	1.730184	-683.6	2.07E-07	2.05E-06
318	mir-203(1)	0.005173	4.440840	-861.4	4.62E-08	6.10E-07
319	mir-506(11)	0.000054	0.057655	-1181.4	4.19E-09	7.38E-08

	A	B	C	D	E	F
1		Relative frequency (%)				
2	Cistron	HemSC	NS	Fold change	P Value	FDR
3	mir-511-1(2)	0.000000	0.004168	-896.1	1.54E-07	2.86E-06
4	mir-506(11)	0.000148	0.057655	-396.1	2.17E-06	2.86E-05
5	mir-196b(1)	0.000182	0.060593	-336.6	8.46E-04	3.44E-03
6	mir-205(1)	0.006109	1.730184	-283.1	3.54E-05	2.80E-04
7	mir-203(1)	0.015852	4.440840	-279.9	1.55E-05	1.41E-04
8	mir-513c(1)	0.000000	0.001057	-230.2	5.94E-04	2.61E-03
9	mir-200a(3)	0.002438	0.552975	-227.2	3.69E-06	3.90E-05
10	mir-3659(1)	0.000000	0.000955	-207.0	8.18E-04	3.37E-03
11	mir-148a(1)	0.024288	4.426584	-182.3	4.58E-12	3.70E-10
12	mir-141(2)	0.010816	1.946635	-179.9	9.46E-05	5.88E-04
13	mir-375(1)	0.000032	0.006382	-165.2	4.69E-05	3.23E-04
14	mir-483(1)	0.000078	0.011713	-156.3	4.25E-04	2.01E-03
15	mir-3910(1)	0.000000	0.000647	-142.1	2.29E-03	8.10E-03
16	mir-514b(1)	0.000000	0.000628	-137.8	7.56E-04	3.20E-03
17	mir-513b(1)	0.000000	0.000544	-119.9	2.32E-03	8.10E-03
18	mir-211(1)	0.000202	0.024324	-116.5	1.39E-07	2.75E-06
19	mir-944(1)	0.000033	0.004338	-112.5	4.11E-05	2.96E-04
20	mir-488(1)	0.000032	0.003959	-102.9	6.83E-05	4.42E-04
21	mir-1247(1)	0.000032	0.003620	-94.3	3.85E-04	1.85E-03
22	mir-208a(1)	0.000000	0.000452	-93.7	6.59E-02	1.41E-01
23	mir-150(1)	0.000258	0.023777	-87.6	2.20E-05	1.83E-04
24	mir-675(1)	0.000072	0.005753	-78.1	1.44E-03	5.50E-03
25	mir-885(1)	0.000000	0.000359	-74.9	3.83E-02	9.13E-02
26	mir-223(1)	0.000377	0.025329	-66.4	5.36E-08	1.21E-06
27	mir-551a(1)	0.000000	0.000288	-64.9	1.28E-03	4.93E-03
28	mir-196a-1(3)	0.001685	0.099951	-59.2	7.73E-08	1.63E-06
29	mir-153-1(2)	0.000208	0.011377	-53.8	6.77E-05	4.42E-04
30	mir-187(1)	0.000033	0.001995	-52.2	1.96E-05	1.68E-04

	A	B	C	D	E	F
31	mir-556(1)	0.000000	0.000235	-51.2	5.72E-02	1.27E-01
32	mir-934(1)	0.000000	0.000230	-51.1	1.36E-02	3.81E-02
33	mir-676(1)	0.000000	0.000217	-46.6	2.79E-02	6.85E-02
34	mir-504(1)	0.000065	0.003331	-46.2	1.88E-06	2.59E-05
35	mir-96(3)	0.002162	0.098394	-45.5	1.62E-10	7.31E-09
36	mir-1295(1)	0.000000	0.000163	-36.3	7.05E-02	1.50E-01
37	mir-2681(2)	0.000000	0.000163	-36.2	8.55E-03	2.66E-02
38	mir-95(1)	0.000208	0.007546	-35.5	6.03E-06	5.98E-05
39	mir-873(2)	0.000066	0.002487	-34.6	3.74E-05	2.89E-04
40	mir-144(2)	0.050206	1.679495	-33.5	3.96E-05	2.96E-04
41	mir-338(1)	0.001272	0.041242	-32.5	2.60E-06	3.16E-05
42	mir-210(1)	0.012112	0.375648	-31.0	9.38E-07	1.42E-05
43	mir-4772(1)	0.000000	0.000131	-29.0	9.32E-03	2.81E-02
44	mir-1-1(4)	0.011704	0.329325	-28.1	2.88E-04	1.52E-03
45	mir-204(1)	0.000304	0.007683	-24.7	1.68E-05	1.48E-04
46	mir-551b(1)	0.000072	0.001660	-22.5	1.90E-03	6.85E-03
47	mir-1976(1)	0.000000	0.000103	-21.6	3.13E-02	7.64E-02
48	mir-142(1)	0.010269	0.194757	-18.9	8.18E-06	7.86E-05
49	mir-126(1)	0.058757	1.103312	-18.8	2.64E-08	6.44E-07
50	mir-346(1)	0.000000	0.000087	-18.7	4.94E-02	1.13E-01
51	mir-3690-1(2)	0.000000	0.000088	-18.6	1.86E-01	3.09E-01
52	mir-105-1(3)	0.000000	0.000068	-18.4	2.24E-02	5.63E-02
53	mir-9-1(3)	0.001126	0.019518	-17.5	4.98E-05	3.36E-04
54	mir-577(1)	0.000000	0.000074	-17.0	5.39E-02	1.21E-01
55	mir-3620(1)	0.000000	0.000072	-16.7	1.38E-01	2.46E-01
56	mir-448(5)	0.000000	0.000068	-15.5	1.17E-01	2.23E-01
57	mir-149(1)	0.002364	0.030756	-13.0	2.59E-04	1.44E-03
58	mir-202(1)	0.000201	0.002705	-13.0	1.68E-03	6.13E-03
59	mir-486(1)	0.002510	0.031911	-12.7	2.51E-06	3.16E-05
60	mir-139(1)	0.002007	0.024784	-12.3	2.16E-07	3.81E-06

	A	B	C	D	E	F
61	mir-489(2)	0.000071	0.000921	-12.0	7.84E-04	3.27E-03
62	mir-101-1(2)	0.065952	0.787835	-11.9	6.30E-07	1.05E-05
63	mir-3614(1)	0.000000	0.000053	-11.7	1.28E-01	2.33E-01
64	mir-2110(1)	0.000277	0.003113	-11.1	5.20E-06	5.31E-05
65	mir-1250(1)	0.000000	0.000043	-11.0	2.25E-01	3.65E-01
66	mir-1229(1)	0.000000	0.000042	-11.0	2.58E-01	3.95E-01
67	mir-4709(1)	0.000000	0.000041	-10.6	1.13E-01	2.17E-01
68	mir-3617(1)	0.000032	0.000373	-9.2	1.55E-01	2.74E-01
69	mir-146b(1)	0.018175	0.165459	-9.1	1.32E-04	7.73E-04
70	mir-4802(1)	0.000000	0.000029	-8.5	2.68E-01	4.08E-01
71	mir-2276(1)	0.000000	0.000039	-8.3	3.08E-01	4.47E-01
72	mir-3612(1)	0.000000	0.000035	-7.2	2.76E-01	4.15E-01
73	mir-598(1)	0.000416	0.002984	-7.2	3.56E-04	1.76E-03
74	mir-5193(2)	0.000000	0.000033	-7.1	3.06E-01	4.46E-01
75	mir-195(2)	0.080842	0.542734	-6.7	4.48E-05	3.16E-04
76	mir-582(1)	0.000667	0.004212	-6.3	2.21E-02	5.61E-02
77	mir-1286(1)	0.000000	0.000028	-5.8	2.82E-01	4.21E-01
78	mir-874(1)	0.002975	0.017094	-5.7	3.41E-04	1.72E-03
79	mir-184(1)	0.000039	0.000206	-5.4	1.28E-01	2.33E-01
80	mir-499(1)	0.000457	0.002417	-5.3	1.74E-01	2.95E-01
81	mir-1266(1)	0.000000	0.000026	-5.2	3.87E-01	5.35E-01
82	mir-378(1)	0.174375	0.899292	-5.2	7.64E-05	4.85E-04
83	mir-192(4)	0.007583	0.038657	-5.1	1.09E-04	6.65E-04
84	mir-33a(1)	0.005803	0.028281	-4.9	1.36E-04	7.84E-04
85	mir-455(1)	0.021709	0.092868	-4.3	1.04E-03	4.13E-03
86	mir-652(1)	0.009102	0.038397	-4.2	3.08E-04	1.60E-03
87	mir-371(3)	0.000065	0.000280	-4.2	1.67E-01	2.86E-01
88	mir-181c(2)	0.008328	0.034252	-4.1	5.90E-04	2.61E-03
89	mir-133b(2)	0.000329	0.001304	-4.1	2.29E-01	3.70E-01
90	mir-320(1)	0.181419	0.665174	-3.7	2.16E-04	1.22E-03

	A	B	C	D	E	F
91	mir-887(1)	0.003522	0.012395	-3.5	1.44E-02	3.98E-02
92	mir-146a(1)	0.056184	0.185724	-3.3	4.00E-02	9.40E-02
93	mir-190a(1)	0.008561	0.028251	-3.3	7.44E-03	2.36E-02
94	mir-26a-1(2)	1.220133	3.933767	-3.2	1.72E-02	4.62E-02
95	mir-219-1(2)	0.000389	0.001217	-3.2	1.81E-01	3.03E-01
96	mir-1468(1)	0.000116	0.000356	-3.2	2.22E-01	3.63E-01
97	mir-124-1(3)	0.000142	0.000456	-3.2	5.45E-02	1.22E-01
98	mir-592(1)	0.000033	0.000112	-3.1	1.74E-01	2.95E-01
99	mir-1249(1)	0.000129	0.000431	-3.1	2.74E-01	4.15E-01
100	mir-190b(1)	0.000238	0.000730	-3.0	7.45E-02	1.55E-01
101	mir-10b(1)	0.246911	0.724261	-2.9	1.64E-01	2.82E-01
102	mir-199b(1)	0.491245	1.436779	-2.9	5.54E-03	1.81E-02
103	mir-1179(1)	0.000033	0.000101	-2.9	2.43E-01	3.82E-01
104	mir-561(1)	0.000129	0.000379	-2.9	1.21E-01	2.25E-01
105	mir-181a-1(4)	0.208754	0.595786	-2.9	3.69E-03	1.26E-02
106	mir-33b(1)	0.001636	0.004609	-2.8	1.06E-01	2.05E-01
107	mir-30b(2)	0.226560	0.640463	-2.8	1.12E-03	4.38E-03
108	mir-1269(1)	0.000000	0.000017	-2.8	6.33E-01	7.49E-01
109	mir-328(1)	0.001606	0.004495	-2.8	3.89E-02	9.20E-02
110	mir-143(2)	3.833894	9.717483	-2.5	5.91E-02	1.29E-01
111	mir-199a-1(3)	1.063376	2.683622	-2.5	1.53E-02	4.15E-02
112	mir-3130(1)	0.000064	0.000160	-2.3	4.16E-01	5.59E-01
113	mir-574(1)	0.032733	0.075915	-2.3	1.00E-02	2.97E-02
114	mir-28(1)	0.082707	0.190600	-2.3	6.42E-03	2.08E-02
115	mir-642(1)	0.000065	0.000167	-2.3	5.01E-01	6.33E-01
116	mir-3064(1)	0.000097	0.000233	-2.3	4.53E-01	5.84E-01
117	mir-708(1)	0.034400	0.077210	-2.2	2.01E-02	5.18E-02
118	mir-335(1)	0.051809	0.107719	-2.1	4.95E-02	1.13E-01
119	mir-342(1)	0.030905	0.061925	-2.0	4.71E-03	1.59E-02
120	mir-331(1)	0.010073	0.019641	-2.0	5.32E-02	1.20E-01

	A	B	C	D	E	F
121	mir-4473(1)	0.000033	0.000070	-1.9	4.50E-01	5.82E-01
122	mir-548b(1)	0.000271	0.000522	-1.9	1.64E-01	2.82E-01
123	mir-135a-1(3)	0.570223	1.097216	-1.9	1.78E-02	4.73E-02
124	mir-197(1)	0.009938	0.019043	-1.9	6.23E-02	1.35E-01
125	mir-3938(1)	0.000000	0.000004	-1.8	7.18E-01	8.02E-01
126	mir-98(13)	8.061245	14.868133	-1.8	1.88E-02	4.93E-02
127	mir-505(1)	0.003818	0.007002	-1.8	8.97E-02	1.77E-01
128	mir-5092(1)	0.000000	0.000004	-1.8	7.08E-01	7.94E-01
129	mir-550-1(3)	0.000577	0.001049	-1.8	1.31E-01	2.36E-01
130	mir-627(1)	0.001748	0.003079	-1.8	2.93E-01	4.32E-01
131	mir-937(1)	0.000033	0.000059	-1.7	6.88E-01	7.87E-01
132	mir-1226(1)	0.000174	0.000297	-1.7	3.80E-01	5.28E-01
133	mir-188(8)	0.079878	0.136409	-1.7	4.49E-02	1.05E-01
134	mir-32(1)	0.009920	0.016909	-1.7	3.05E-01	4.46E-01
135	mir-3145(1)	0.000033	0.000055	-1.7	6.61E-01	7.64E-01
136	mir-4731(1)	0.000032	0.000061	-1.7	6.14E-01	7.34E-01
137	mir-2467(1)	0.000000	0.000002	-1.7	7.08E-01	7.94E-01
138	mir-1307(1)	0.026288	0.043879	-1.7	2.00E-01	3.28E-01
139	mir-218-1(3)	0.051630	0.084537	-1.6	1.21E-01	2.25E-01
140	mir-3940(1)	0.000064	0.000107	-1.6	6.28E-01	7.47E-01
141	mir-147(1)	0.000910	0.001446	-1.6	6.13E-01	7.34E-01
142	mir-324(1)	0.029252	0.045216	-1.5	2.93E-01	4.32E-01
143	mir-1227(1)	0.000039	0.000064	-1.5	7.26E-01	8.07E-01
144	mir-135b(1)	0.002051	0.003102	-1.5	3.40E-01	4.83E-01
145	mir-4789(1)	0.000066	0.000097	-1.5	6.62E-01	7.64E-01
146	mir-26b(1)	0.603861	0.901023	-1.5	2.50E-01	3.88E-01
147	mir-3194(1)	0.000208	0.000311	-1.5	5.45E-01	6.78E-01
148	mir-643(1)	0.000071	0.000095	-1.4	5.67E-01	6.97E-01
149	mir-345(1)	0.008156	0.011641	-1.4	1.84E-01	3.06E-01
150	mir-450a-1(4)	0.090627	0.128143	-1.4	4.08E-01	5.53E-01

	A	B	C	D	E	F
151	mir-1180(1)	0.001269	0.001707	-1.4	4.21E-01	5.61E-01
152	mir-3065(1)	0.000679	0.000901	-1.3	6.51E-01	7.61E-01
153	mir-140(1)	0.207659	0.278880	-1.3	4.43E-01	5.77E-01
154	mir-4690(1)	0.000072	0.000093	-1.3	7.98E-01	8.64E-01
155	mir-30a(4)	1.114134	1.472763	-1.3	4.06E-01	5.52E-01
156	mir-1537(1)	0.000104	0.000132	-1.3	7.50E-01	8.20E-01
157	mir-3613(1)	0.009482	0.012200	-1.3	4.81E-01	6.18E-01
158	mir-1237(1)	0.000032	0.000047	-1.3	8.46E-01	8.88E-01
159	mir-130a(1)	0.402837	0.501141	-1.2	4.88E-01	6.21E-01
160	mir-1301(1)	0.001424	0.001747	-1.2	6.13E-01	7.34E-01
161	mir-576(1)	0.003011	0.003553	-1.2	7.67E-01	8.36E-01
162	mir-3074(1)	0.000142	0.000164	-1.2	8.57E-01	8.95E-01
163	mir-99b(3)	0.531275	0.617693	-1.2	5.36E-01	6.71E-01
164	mir-4636(1)	0.000299	0.000336	-1.1	8.99E-01	9.22E-01
165	mir-107(1)	0.068642	0.076610	-1.1	7.35E-01	8.12E-01
166	mir-423(2)	0.191757	0.213821	-1.1	7.09E-01	7.94E-01
167	mir-1296(1)	0.001302	0.001447	-1.1	8.02E-01	8.65E-01
168	mir-6720(1)	0.000362	0.000376	-1.1	9.47E-01	9.62E-01
169	mir-1271(1)	0.004392	0.004676	-1.1	8.61E-01	8.95E-01
170	mir-1287(1)	0.001635	0.001703	-1.0	9.04E-01	9.25E-01
171	mir-330(1)	0.007119	0.007474	-1.0	8.81E-01	9.07E-01
172	mir-766(1)	0.000896	0.000925	-1.0	9.61E-01	9.73E-01
173	mir-424(2)	1.430895	1.437491	-1.0	9.89E-01	9.99E-01
174	mir-1251(1)	0.000000	0.000000	0.0	1.00E+00	1.00E+00
175	mir-3120(1)	0.000000	0.000000	0.0	1.00E+00	1.00E+00
176	mir-2114(1)	0.000176	0.000174	1.0	9.96E-01	1.00E+00
177	mir-769(1)	0.025724	0.024513	1.0	8.75E-01	9.03E-01
178	mir-3146(1)	0.000039	0.000044	1.1	9.26E-01	9.44E-01
179	mir-17(12)	1.908019	1.754327	1.1	7.49E-01	8.20E-01
180	mir-1306(1)	0.000853	0.000771	1.1	8.05E-01	8.65E-01

	A	B	C	D	E	F
181	mir-25(3)	0.789050	0.706438	1.1	6.41E-01	7.52E-01
182	mir-148b(1)	0.473930	0.417506	1.1	6.93E-01	7.90E-01
183	mir-3912(1)	0.000515	0.000452	1.2	8.73E-01	9.03E-01
184	mir-625(1)	0.005219	0.004499	1.2	7.01E-01	7.94E-01
185	mir-484(1)	0.017594	0.014726	1.2	5.62E-01	6.93E-01
186	mir-5187(1)	0.000137	0.000115	1.2	8.59E-01	8.95E-01
187	mir-597(1)	0.000442	0.000361	1.2	8.16E-01	8.65E-01
188	mir-23a(6)	11.297341	9.158310	1.2	4.41E-01	5.77E-01
189	mir-152(1)	0.617429	0.499666	1.2	5.46E-01	6.78E-01
190	mir-1277(1)	0.003808	0.003046	1.2	7.39E-01	8.14E-01
191	mir-193a(5)	0.392482	0.316366	1.2	4.87E-01	6.21E-01
192	mir-4638(1)	0.000103	0.000085	1.3	7.72E-01	8.38E-01
193	mir-3157(1)	0.000148	0.000105	1.3	8.16E-01	8.65E-01
194	mir-651(1)	0.002437	0.001902	1.3	5.47E-01	6.78E-01
195	mir-186(1)	0.412734	0.312966	1.3	4.42E-01	5.77E-01
196	mir-877(1)	0.001271	0.000949	1.3	4.40E-01	5.77E-01
197	mir-383(1)	0.000314	0.000241	1.3	6.66E-01	7.65E-01
198	mir-636(1)	0.000096	0.000078	1.3	8.09E-01	8.65E-01
199	mir-1284(1)	0.000032	0.000020	1.3	8.16E-01	8.65E-01
200	mir-552(1)	0.000039	0.000023	1.4	8.34E-01	8.78E-01
201	mir-3136(1)	0.000136	0.000100	1.4	6.37E-01	7.50E-01
202	mir-216a(3)	0.000693	0.000477	1.4	4.16E-01	5.59E-01
203	mir-629(1)	0.015338	0.010656	1.4	3.65E-01	5.14E-01
204	mir-185(1)	0.109077	0.075703	1.4	2.33E-01	3.72E-01
205	mir-296(1)	0.003127	0.002125	1.5	3.34E-01	4.77E-01
206	mir-744(1)	0.030374	0.020638	1.5	2.42E-01	3.82E-01
207	mir-129-1(2)	0.002473	0.001637	1.5	3.98E-01	5.47E-01
208	mir-208b(1)	0.000072	0.000048	1.5	8.25E-01	8.72E-01
209	mir-580(1)	0.000131	0.000091	1.5	6.62E-01	7.64E-01
210	mir-1233(2)	0.000033	0.000019	1.5	7.03E-01	7.94E-01

	A	B	C	D	E	F
211	mir-3173(1)	0.000104	0.000072	1.5	6.61E-01	7.64E-01
212	mir-942(1)	0.000998	0.000634	1.6	2.41E-01	3.82E-01
213	mir-1909(1)	0.000039	0.000019	1.6	7.34E-01	8.12E-01
214	mir-3605(1)	0.000867	0.000534	1.6	5.16E-01	6.49E-01
215	mir-2116(1)	0.000176	0.000107	1.6	5.83E-01	7.11E-01
216	mir-3664(1)	0.000097	0.000057	1.7	6.29E-01	7.47E-01
217	mir-4804(1)	0.000202	0.000117	1.7	5.83E-01	7.11E-01
218	mir-1256(1)	0.000097	0.000063	1.7	5.94E-01	7.19E-01
219	mir-3155(1)	0.000033	0.000015	1.8	5.91E-01	7.18E-01
220	mir-1292(1)	0.000856	0.000471	1.8	3.68E-01	5.16E-01
221	mir-10a(1)	0.223937	0.122253	1.8	3.15E-01	4.56E-01
222	mir-570(1)	0.001792	0.000991	1.8	4.34E-01	5.75E-01
223	mir-301a(2)	0.043220	0.023255	1.9	8.71E-02	1.75E-01
224	mir-103-1(2)	2.337324	1.246508	1.9	1.60E-01	2.80E-01
225	mir-3928(1)	0.000404	0.000209	1.9	4.44E-01	5.77E-01
226	mir-22(1)	2.689998	1.419786	1.9	1.18E-01	2.23E-01
227	mir-339(1)	0.045870	0.023962	1.9	4.63E-02	1.07E-01
228	mir-3942(1)	0.000103	0.000052	1.9	3.96E-01	5.45E-01
229	mir-3126(1)	0.000207	0.000111	1.9	4.99E-01	6.33E-01
230	mir-191(2)	0.847044	0.437943	1.9	2.33E-03	8.10E-03
231	mir-2277(1)	0.000960	0.000477	2.0	3.51E-01	4.96E-01
232	mir-361(1)	0.083594	0.041121	2.0	8.04E-02	1.63E-01
233	mir-1245(2)	0.000352	0.000161	2.0	3.33E-01	4.77E-01
234	mir-584(1)	0.002561	0.001225	2.1	2.32E-01	3.72E-01
235	mir-151(1)	0.605144	0.291741	2.1	1.62E-03	5.98E-03
236	mir-760(1)	0.009477	0.004431	2.1	8.76E-02	1.75E-01
237	mir-1270-1(1)	0.000465	0.000218	2.2	7.73E-02	1.58E-01
238	mir-1270-2(1)	0.000465	0.000218	2.2	7.73E-02	1.58E-01
239	mir-659(1)	0.000337	0.000144	2.3	3.70E-01	5.17E-01
240	mir-605(1)	0.000266	0.000112	2.3	3.28E-01	4.72E-01

	A	B	C	D	E	F
241	mir-4766(1)	0.000142	0.000053	2.3	4.01E-01	5.49E-01
242	mir-128-1(2)	0.038481	0.016384	2.3	1.08E-02	3.17E-02
243	mir-132(2)	0.020230	0.008202	2.5	8.94E-02	1.77E-01
244	mir-3692(1)	0.000066	0.000021	2.6	2.44E-01	3.82E-01
245	mir-624(1)	0.001190	0.000440	2.7	2.44E-01	3.82E-01
246	mir-937(2)	0.000280	0.000094	2.7	2.86E-01	4.25E-01
247	mir-4326(1)	0.000630	0.000213	2.9	1.62E-01	2.82E-01
248	mir-590(1)	0.025465	0.008843	2.9	1.39E-02	3.87E-02
249	mir-130b(2)	0.087822	0.030408	2.9	7.28E-04	3.12E-03
250	mir-374a(4)	0.386100	0.130225	3.0	8.21E-03	2.58E-02
251	mir-3679(1)	0.000239	0.000077	3.0	1.45E-01	2.58E-01
252	mir-3175(1)	0.000033	0.000008	3.1	4.19E-01	5.60E-01
253	mir-498(46)	0.055535	0.018084	3.1	1.94E-02	5.04E-02
254	mir-579(1)	0.000584	0.000188	3.1	1.76E-01	2.97E-01
255	mir-3187(1)	0.000299	0.000087	3.1	5.82E-02	1.28E-01
256	mir-127(8)	1.365609	0.437495	3.1	8.21E-02	1.66E-01
257	mir-491(1)	0.005231	0.001570	3.3	2.17E-02	5.55E-02
258	mir-1228(1)	0.000233	0.000062	3.4	2.76E-01	4.15E-01
259	mir-3177(1)	0.000175	0.000050	3.4	1.20E-01	2.24E-01
260	mir-3657(1)	0.000168	0.000041	3.4	1.11E-01	2.15E-01
261	mir-1255a(1)	0.001163	0.000350	3.4	3.76E-02	9.04E-02
262	let-7i(1)	4.692858	1.353406	3.5	4.86E-03	1.62E-02
263	mir-3691(1)	0.000149	0.000035	3.5	2.52E-01	3.89E-01
264	mir-933(1)	0.000098	0.000022	3.5	2.53E-01	3.89E-01
265	mir-15a(4)	1.848001	0.523296	3.5	8.68E-03	2.67E-02
266	mir-4504(1)	0.000105	0.000028	3.8	1.17E-01	2.23E-01
267	mir-1908(1)	0.000280	0.000064	3.8	1.56E-01	2.75E-01
268	mir-3138(1)	0.000104	0.000021	3.9	2.00E-01	3.28E-01
269	mir-1304(1)	0.001214	0.000306	3.9	5.39E-03	1.78E-02
270	mir-589(1)	0.002130	0.000540	4.0	3.39E-04	1.72E-03

	A	B	C	D	E	F
271	mir-618(1)	0.000836	0.000218	4.0	1.31E-01	2.36E-01
272	mir-548(2)	0.006308	0.001531	4.1	2.96E-05	2.41E-04
273	mir-340(1)	0.013417	0.003127	4.3	7.27E-02	1.53E-01
274	mir-641(1)	0.001658	0.000382	4.3	2.43E-02	6.06E-02
275	mir-616(1)	0.000834	0.000176	4.5	9.63E-02	1.88E-01
276	mir-224(2)	0.604377	0.134475	4.5	1.13E-06	1.63E-05
277	mir-628(1)	0.007098	0.001594	4.5	3.50E-03	1.20E-02
278	mir-1305(1)	0.000247	0.000046	4.6	1.10E-02	3.21E-02
279	mir-3934(1)	0.001599	0.000338	4.8	7.26E-03	2.32E-02
280	mir-671(1)	0.051500	0.010682	4.8	1.01E-03	4.06E-03
281	mir-770(1)	0.000500	0.000099	4.8	3.28E-02	7.93E-02
282	mir-3200(1)	0.002699	0.000543	4.8	5.29E-04	2.43E-03
283	mir-370(1)	0.041376	0.008046	5.1	1.51E-03	5.71E-03
284	mir-3944(1)	0.000175	0.000034	5.4	7.55E-02	1.56E-01
285	mir-92b(1)	0.026904	0.004971	5.4	3.37E-06	3.90E-05
286	mir-2355(1)	0.003292	0.000587	5.5	2.74E-04	1.48E-03
287	mir-3158(1)	0.002930	0.000526	5.6	1.50E-02	4.10E-02
288	mir-449a(3)	0.001246	0.000220	5.9	9.94E-03	2.97E-02
289	mir-1278(1)	0.000195	0.000026	6.0	7.31E-02	1.53E-01
290	mir-4746(1)	0.000276	0.000037	6.2	2.53E-02	6.27E-02
291	mir-3677(1)	0.000344	0.000050	6.7	1.18E-02	3.41E-02
292	mir-1303(1)	0.001326	0.000193	6.7	6.80E-04	2.95E-03
293	mir-221(2)	8.077588	1.129882	7.1	6.20E-09	1.97E-07
294	mir-29a(4)	5.673990	0.698015	8.1	5.40E-04	2.45E-03
295	mir-5094(1)	0.000065	0.000004	8.3	1.25E-01	2.30E-01
296	mir-1276(1)	0.000137	0.000019	8.6	1.88E-02	4.93E-02
297	mir-3192(1)	0.000071	0.000004	8.6	6.53E-02	1.41E-01
298	mir-34b(2)	0.055249	0.005893	9.4	1.36E-05	1.27E-04
299	mir-3909(1)	0.001500	0.000162	9.4	1.21E-02	3.42E-02
300	mir-1294(1)	0.001156	0.000115	9.6	3.73E-04	1.82E-03

	A	B	C	D	E	F
301	mir-134(43)	8.915426	0.849155	10.5	1.90E-08	5.01E-07
302	mir-3619(1)	0.000575	0.000045	12.1	4.71E-04	2.19E-03
303	mir-3193(1)	0.000168	0.000007	12.8	1.57E-03	5.86E-03
304	mir-3174(1)	0.000344	0.000021	12.9	9.11E-03	2.78E-02
305	mir-1910(1)	0.000227	0.000008	16.3	1.21E-02	3.42E-02
306	mir-122(1)	0.002136	0.000094	20.3	1.18E-04	7.05E-04
307	mir-7-1(3)	0.464601	0.022520	20.6	1.85E-10	7.31E-09
308	mir-138-1(2)	0.100872	0.004580	21.9	4.83E-09	1.70E-07
309	mir-1252(1)	0.000661	0.000023	22.5	2.75E-04	1.48E-03
310	mir-21(1)	69.811227	2.758412	25.3	1.59E-11	1.01E-09
311	mir-34a(1)	1.243938	0.036352	34.2	1.48E-12	2.35E-10
312	mir-155(1)	0.245820	0.006343	38.7	4.67E-12	3.70E-10
313	mir-3176(1)	0.002346	0.000050	56.1	8.29E-09	2.39E-07
314	mir-3919(1)	0.000715	0.000005	66.9	4.04E-05	2.96E-04
315	mir-3152(1)	0.001908	0.000020	70.3	3.51E-06	3.90E-05
316	mir-3117(1)	0.008820	0.000070	114.8	3.57E-06	3.90E-05
317	mir-137(1)	0.168254	0.001172	142.9	8.94E-07	1.42E-05
318	mir-31(1)	0.451502	0.000903	522.2	4.27E-11	2.26E-09
319	mir-302a(5)	0.004977	0.000004	604.8	5.88E-15	1.87E-12

	A	B	C	D	E	F
1		Relative frequency (%)				
2	Cistron	iPSC	NS	Fold change	P Value	FDR
3	mir-302a(5)	29.172126	0.000004	3537143.1	1.24E-22	3.94E-20
4	mir-1251(1)	0.005535	0.000000	1194.0	1.38E-08	9.30E-08
5	mir-448(5)	0.045857	0.000068	636.5	1.25E-09	1.17E-08
6	mir-371(3)	0.143652	0.000280	474.7	2.35E-09	2.01E-08
7	mir-105-1(3)	0.040204	0.000068	472.1	7.37E-13	1.67E-11
8	mir-124-1(3)	0.075053	0.000456	166.1	1.46E-11	2.72E-10
9	mir-577(1)	0.008310	0.000074	105.8	3.09E-08	1.92E-07
10	mir-1286(1)	0.002192	0.000028	81.3	1.95E-07	1.01E-06
11	mir-3176(1)	0.003294	0.000050	78.8	6.77E-10	6.92E-09
12	mir-1276(1)	0.001225	0.000019	73.9	1.12E-05	3.97E-05
13	mir-1305(1)	0.003409	0.000046	62.6	1.11E-08	7.95E-08
14	mir-92b(1)	0.303693	0.004971	61.0	8.32E-14	3.30E-12
15	mir-1270-1(1)	0.012643	0.000218	58.3	1.60E-10	1.87E-09
16	mir-1270-2(1)	0.012643	0.000218	58.3	1.60E-10	1.87E-09
17	mir-3192(1)	0.000470	0.000004	54.7	1.71E-04	4.26E-04
18	mir-5092(1)	0.000411	0.000004	49.2	9.36E-04	1.98E-03
19	mir-1304(1)	0.015225	0.000306	48.2	1.23E-09	1.17E-08
20	mir-4802(1)	0.001793	0.000029	45.6	1.40E-04	3.64E-04
21	mir-1266(1)	0.001063	0.000026	44.0	2.66E-04	6.39E-04
22	mir-3938(1)	0.000335	0.000004	40.3	2.01E-03	3.86E-03
23	mir-1269(1)	0.000498	0.000017	38.9	1.86E-03	3.62E-03
24	mir-1252(1)	0.001120	0.000023	38.1	1.79E-05	5.86E-05
25	mir-1303(1)	0.007512	0.000193	37.7	3.76E-08	2.29E-07
26	mir-3175(1)	0.000457	0.000008	37.3	9.32E-04	1.98E-03
27	mir-340(1)	0.103021	0.003127	32.9	1.65E-04	4.19E-04
28	mir-187(1)	0.065825	0.001995	32.5	1.14E-08	7.95E-08
29	mir-3177(1)	0.001646	0.000050	31.2	1.32E-05	4.58E-05
30	mir-4746(1)	0.001321	0.000037	29.6	4.50E-05	1.35E-04

	A	B	C	D	E	F
31	mir-1910(1)	0.000418	0.000008	29.5	1.15E-03	2.33E-03
32	mir-498(46)	0.506015	0.018084	28.1	5.81E-08	3.35E-07
33	mir-3187(1)	0.002734	0.000087	27.8	4.30E-07	2.03E-06
34	mir-135b(1)	0.085550	0.003102	27.5	3.49E-09	2.83E-08
35	mir-5094(1)	0.000225	0.000004	26.4	5.72E-03	1.02E-02
36	mir-589(1)	0.013496	0.000540	25.3	1.09E-10	1.39E-09
37	mir-592(1)	0.003034	0.000112	25.2	5.93E-07	2.72E-06
38	mir-296(1)	0.051732	0.002125	24.1	1.84E-09	1.67E-08
39	mir-3664(1)	0.001448	0.000057	23.1	1.41E-03	2.79E-03
40	mir-3677(1)	0.001144	0.000050	21.9	4.72E-05	1.40E-04
41	mir-2467(1)	0.000149	0.000002	20.2	3.20E-03	5.86E-03
42	mir-561(1)	0.007412	0.000379	18.7	1.53E-06	6.45E-06
43	mir-643(1)	0.001919	0.000095	17.9	2.81E-07	1.37E-06
44	mir-873(2)	0.037348	0.002487	14.9	1.06E-06	4.68E-06
45	mir-1284(1)	0.000406	0.000020	14.5	2.33E-03	4.38E-03
46	mir-552(1)	0.000419	0.000023	13.9	8.37E-03	1.45E-02
47	mir-96(3)	1.356643	0.098394	13.8	3.50E-10	3.70E-09
48	mir-942(1)	0.007569	0.000634	12.0	4.84E-08	2.84E-07
49	mir-17(12)	19.326236	1.754327	11.0	6.96E-11	9.60E-10
50	mir-760(1)	0.045920	0.004431	10.4	2.81E-06	1.09E-05
51	mir-1250(1)	0.000518	0.000043	10.2	9.65E-03	1.60E-02
52	mir-651(1)	0.018782	0.001902	9.9	1.53E-06	6.45E-06
53	mir-129-1(2)	0.016229	0.001637	9.8	9.04E-06	3.33E-05
54	mir-556(1)	0.002188	0.000235	9.2	9.38E-03	1.57E-02
55	mir-130b(2)	0.280982	0.030408	9.2	2.55E-09	2.13E-08
56	mir-3065(1)	0.008398	0.000901	9.2	3.90E-04	8.96E-04
57	mir-548b(1)	0.004834	0.000522	9.0	1.19E-06	5.18E-06
58	mir-3138(1)	0.000255	0.000021	9.0	1.05E-02	1.73E-02
59	mir-25(3)	6.269246	0.706438	8.9	4.13E-11	6.12E-10
60	mir-449a(3)	0.001754	0.000220	8.3	1.08E-03	2.21E-03

	A	B	C	D	E	F
61	mir-128-1(2)	0.133747	0.016384	8.2	5.92E-08	3.35E-07
62	mir-1229(1)	0.000401	0.000042	7.9	2.74E-02	4.08E-02
63	mir-1226(1)	0.002402	0.000297	7.8	1.19E-04	3.17E-04
64	mir-937(1)	0.000497	0.000059	7.6	2.67E-02	3.99E-02
65	mir-9-1(3)	0.146753	0.019518	7.5	6.72E-05	1.94E-04
66	mir-505(1)	0.051987	0.007002	7.4	2.16E-07	1.10E-06
67	mir-3174(1)	0.000196	0.000021	7.2	1.88E-02	2.90E-02
68	mir-580(1)	0.000654	0.000091	7.2	1.26E-02	2.04E-02
69	mir-1908(1)	0.000530	0.000064	7.2	1.62E-02	2.52E-02
70	mir-1301(1)	0.012380	0.001747	7.0	6.20E-06	2.31E-05
71	mir-744(1)	0.142595	0.020638	6.9	3.41E-07	1.64E-06
72	mir-1237(1)	0.000338	0.000047	6.8	1.93E-02	2.94E-02
73	mir-1180(1)	0.011479	0.001707	6.7	2.27E-06	8.98E-06
74	mir-3200(1)	0.003680	0.000543	6.6	1.52E-05	5.19E-05
75	mir-7-1(3)	0.143920	0.022520	6.4	2.28E-07	1.15E-06
76	mir-1909(1)	0.000154	0.000019	6.2	4.23E-02	6.06E-02
77	mir-933(1)	0.000180	0.000022	6.1	3.80E-02	5.49E-02
78	mir-1306(1)	0.004358	0.000771	5.6	4.93E-05	1.45E-04
79	mir-551a(1)	0.001682	0.000288	5.6	1.08E-03	2.21E-03
80	mir-2355(1)	0.003356	0.000587	5.6	6.17E-05	1.79E-04
81	mir-1256(1)	0.000329	0.000063	5.5	3.37E-02	4.95E-02
82	mir-3130(1)	0.000880	0.000160	5.3	2.46E-02	3.69E-02
83	mir-1296(1)	0.007746	0.001447	5.3	7.15E-05	2.04E-04
84	mir-636(1)	0.000385	0.000078	5.0	7.51E-02	1.03E-01
85	mir-32(1)	0.084148	0.016909	5.0	9.85E-04	2.04E-03
86	mir-877(1)	0.004759	0.000949	5.0	1.21E-05	4.28E-05
87	mir-3691(1)	0.000206	0.000035	4.9	6.86E-02	9.45E-02
88	mir-1277(1)	0.014927	0.003046	4.9	8.66E-03	1.48E-02
89	mir-1307(1)	0.204830	0.043879	4.7	7.55E-05	2.12E-04
90	mir-489(2)	0.004113	0.000921	4.7	5.62E-04	1.25E-03

	A	B	C	D	E	F
91	mir-504(1)	0.015559	0.003331	4.7	2.20E-04	5.41E-04
92	mir-484(1)	0.063872	0.014726	4.3	5.37E-06	2.03E-05
93	mir-641(1)	0.001645	0.000382	4.3	1.20E-02	1.95E-02
94	mir-3679(1)	0.000332	0.000077	4.2	2.42E-02	3.65E-02
95	mir-3117(1)	0.000316	0.000070	4.1	4.52E-02	6.37E-02
96	mir-34b(2)	0.024101	0.005893	4.1	7.72E-04	1.68E-03
97	mir-1278(1)	0.000128	0.000026	4.1	8.48E-02	1.13E-01
98	mir-598(1)	0.012240	0.002984	4.1	3.49E-04	8.07E-04
99	mir-4326(1)	0.000883	0.000213	4.0	3.42E-02	4.99E-02
100	mir-4766(1)	0.000237	0.000053	4.0	8.13E-02	1.09E-01
101	mir-2116(1)	0.000429	0.000107	3.9	6.16E-02	8.53E-02
102	mir-3074(1)	0.000656	0.000164	3.9	5.11E-02	7.14E-02
103	mir-184(1)	0.000821	0.000206	3.8	4.74E-02	6.65E-02
104	mir-5193(2)	0.000115	0.000033	3.8	1.12E-01	1.45E-01
105	mir-2276(1)	0.000146	0.000039	3.6	1.63E-01	2.06E-01
106	mir-769(1)	0.085915	0.024513	3.5	4.31E-05	1.30E-04
107	mir-301a(2)	0.077353	0.023255	3.3	5.09E-04	1.14E-03
108	mir-3126(1)	0.000344	0.000111	3.1	1.59E-01	2.03E-01
109	mir-597(1)	0.001101	0.000361	3.0	1.10E-01	1.43E-01
110	mir-1228(1)	0.000201	0.000062	3.0	2.29E-01	2.72E-01
111	mir-5187(1)	0.000345	0.000115	3.0	1.72E-01	2.15E-01
112	mir-676(1)	0.000637	0.000217	3.0	1.22E-01	1.56E-01
113	mir-31(1)	0.002510	0.000903	2.9	2.20E-02	3.33E-02
114	mir-550-1(3)	0.003011	0.001049	2.8	1.47E-03	2.90E-03
115	mir-1287(1)	0.004843	0.001703	2.8	3.59E-03	6.55E-03
116	mir-361(1)	0.114070	0.041121	2.8	5.75E-03	1.02E-02
117	mir-937(2)	0.000284	0.000094	2.8	1.81E-01	2.24E-01
118	mir-345(1)	0.031161	0.011641	2.7	9.58E-05	2.64E-04
119	mir-3944(1)	0.000077	0.000034	2.6	2.02E-01	2.45E-01
120	mir-374a(4)	0.335682	0.130225	2.6	8.39E-03	1.45E-02

	A	B	C	D	E	F
121	mir-548(2)	0.003923	0.001531	2.6	7.04E-04	1.55E-03
122	mir-1233(2)	0.000053	0.000019	2.4	2.16E-01	2.58E-01
123	mir-618(1)	0.000469	0.000218	2.3	2.84E-01	3.36E-01
124	mir-130a(1)	1.137346	0.501141	2.3	3.89E-03	7.04E-03
125	mir-3934(1)	0.000755	0.000338	2.3	8.97E-02	1.19E-01
126	mir-138-1(2)	0.010283	0.004580	2.2	1.47E-02	2.31E-02
127	mir-491(1)	0.003389	0.001570	2.2	8.29E-02	1.11E-01
128	mir-1227(1)	0.000122	0.000064	2.1	3.16E-01	3.60E-01
129	mir-874(1)	0.035322	0.017094	2.1	3.16E-02	4.66E-02
130	mir-3909(1)	0.000316	0.000162	2.0	3.28E-01	3.71E-01
131	mir-21(1)	5.540849	2.758412	2.0	8.64E-03	1.48E-02
132	mir-204(1)	0.014918	0.007683	1.9	1.01E-01	1.32E-01
133	mir-219-1(2)	0.002371	0.001217	1.9	2.95E-01	3.46E-01
134	mir-34a(1)	0.069924	0.036352	1.9	1.11E-02	1.82E-02
135	mir-1271(1)	0.008947	0.004676	1.9	4.52E-02	6.37E-02
136	mir-3690-1(2)	0.000173	0.000088	1.9	4.88E-01	5.35E-01
137	mir-629(1)	0.019607	0.010656	1.8	8.08E-02	1.09E-01
138	mir-3158(1)	0.000951	0.000526	1.8	3.02E-01	3.50E-01
139	mir-4804(1)	0.000212	0.000117	1.8	4.40E-01	4.89E-01
140	mir-103-1(2)	2.024626	1.246508	1.6	2.03E-01	2.46E-01
141	mir-488(1)	0.006433	0.003959	1.6	3.40E-01	3.84E-01
142	mir-33a(1)	0.044987	0.028281	1.6	9.87E-02	1.30E-01
143	mir-3620(1)	0.000113	0.000072	1.6	5.53E-01	5.96E-01
144	mir-423(2)	0.335153	0.213821	1.6	7.21E-02	9.89E-02
145	mir-151(1)	0.455647	0.291741	1.6	1.91E-02	2.93E-02
146	mir-33b(1)	0.007004	0.004609	1.5	3.89E-01	4.36E-01
147	mir-1468(1)	0.000529	0.000356	1.5	5.36E-01	5.81E-01
148	mir-330(1)	0.010765	0.007474	1.4	1.51E-01	1.94E-01
149	mir-624(1)	0.000622	0.000440	1.4	6.18E-01	6.61E-01
150	mir-3157(1)	0.000161	0.000105	1.4	6.71E-01	7.11E-01

	A	B	C	D	E	F
151	mir-766(1)	0.001288	0.000925	1.4	5.00E-01	5.47E-01
152	mir-339(1)	0.033328	0.023962	1.4	2.23E-01	2.66E-01
153	mir-1292(1)	0.000638	0.000471	1.4	5.53E-01	5.96E-01
154	mir-3659(1)	0.001251	0.000955	1.3	6.39E-01	6.80E-01
155	mir-191(2)	0.543408	0.437943	1.2	2.09E-01	2.51E-01
156	mir-101-1(2)	0.971438	0.787835	1.2	4.54E-01	5.01E-01
157	mir-579(1)	0.000225	0.000188	1.2	7.65E-01	8.00E-01
158	mir-605(1)	0.000133	0.000112	1.2	7.80E-01	8.13E-01
159	mir-155(1)	0.007480	0.006343	1.2	5.33E-01	5.81E-01
160	mir-4690(1)	0.000105	0.000093	1.2	8.42E-01	8.64E-01
161	mir-551b(1)	0.001914	0.001660	1.1	7.96E-01	8.25E-01
162	mir-2277(1)	0.000551	0.000477	1.1	8.29E-01	8.54E-01
163	mir-221(2)	1.245417	1.129882	1.1	6.39E-01	6.80E-01
164	mir-30a(4)	1.602495	1.472763	1.1	7.58E-01	7.95E-01
165	mir-331(1)	0.020949	0.019641	1.1	8.12E-01	8.39E-01
166	mir-1295(1)	0.000168	0.000163	1.1	9.47E-01	9.60E-01
167	mir-192(4)	0.039351	0.038657	1.0	9.48E-01	9.60E-01
168	mir-486(1)	0.032160	0.031911	1.0	9.79E-01	9.85E-01
169	mir-3145(1)	0.000057	0.000055	1.0	9.94E-01	9.97E-01
170	mir-3120(1)	0.000000	0.000000	0.0	1.00E+00	1.00E+00
171	mir-3064(1)	0.000214	0.000233	-1.0	9.53E-01	9.62E-01
172	mir-628(1)	0.001463	0.001594	-1.1	8.49E-01	8.68E-01
173	mir-590(1)	0.008055	0.008843	-1.1	7.87E-01	8.18E-01
174	mir-659(1)	0.000146	0.000144	-1.1	8.89E-01	9.06E-01
175	mir-1249(1)	0.000324	0.000431	-1.3	7.35E-01	7.74E-01
176	mir-625(1)	0.003440	0.004499	-1.3	4.11E-01	4.59E-01
177	mir-652(1)	0.028996	0.038397	-1.3	2.97E-01	3.47E-01
178	mir-140(1)	0.209190	0.278880	-1.3	3.60E-01	4.05E-01
179	mir-335(1)	0.080073	0.107719	-1.3	3.05E-01	3.51E-01
180	mir-186(1)	0.229444	0.312966	-1.4	3.04E-01	3.51E-01

	A	B	C	D	E	F
181	mir-499(1)	0.001725	0.002417	-1.4	6.86E-01	7.25E-01
182	mir-2110(1)	0.002130	0.003113	-1.5	1.92E-01	2.35E-01
183	mir-197(1)	0.012405	0.019043	-1.5	1.19E-01	1.53E-01
184	mir-642(1)	0.000096	0.000167	-1.5	5.98E-01	6.43E-01
185	mir-627(1)	0.001983	0.003079	-1.5	3.05E-01	3.51E-01
186	mir-107(1)	0.047440	0.076610	-1.6	8.06E-02	1.09E-01
187	mir-141(2)	1.189800	1.946635	-1.6	4.49E-01	4.98E-01
188	mir-324(1)	0.026394	0.045216	-1.7	1.12E-01	1.45E-01
189	mir-375(1)	0.003628	0.006382	-1.8	2.94E-01	3.46E-01
190	mir-30b(2)	0.360819	0.640463	-1.8	1.59E-02	2.49E-02
191	mir-885(1)	0.000201	0.000359	-1.8	4.82E-01	5.31E-01
192	mir-576(1)	0.001909	0.003553	-1.9	1.76E-01	2.19E-01
193	mir-3605(1)	0.000278	0.000534	-1.9	3.08E-01	3.53E-01
194	mir-708(1)	0.038876	0.077210	-2.0	1.33E-02	2.13E-02
195	mir-188(8)	0.068324	0.136409	-2.0	2.16E-03	4.09E-03
196	mir-95(1)	0.003690	0.007546	-2.0	7.56E-02	1.03E-01
197	mir-887(1)	0.005988	0.012395	-2.1	5.62E-02	7.81E-02
198	mir-378(1)	0.429653	0.899292	-2.1	9.67E-03	1.60E-02
199	mir-148b(1)	0.192985	0.417506	-2.2	6.71E-03	1.17E-02
200	mir-185(1)	0.034733	0.075703	-2.2	4.25E-03	7.65E-03
201	mir-6720(1)	0.000183	0.000376	-2.2	3.19E-01	3.62E-01
202	mir-342(1)	0.026870	0.061925	-2.3	7.34E-05	2.08E-04
203	mir-133b(2)	0.000579	0.001304	-2.3	2.97E-01	3.47E-01
204	mir-3919(1)	0.000000	0.000005	-2.3	1.63E-01	2.06E-01
205	mir-15a(4)	0.218334	0.523296	-2.4	2.91E-02	4.30E-02
206	mir-28(1)	0.078429	0.190600	-2.4	4.65E-04	1.05E-03
207	mir-671(1)	0.004297	0.010682	-2.5	1.85E-02	2.86E-02
208	mir-148a(1)	1.774467	4.426584	-2.5	1.92E-03	3.71E-03
209	mir-3928(1)	0.000084	0.000209	-2.5	1.89E-01	2.33E-01
210	mir-3912(1)	0.000163	0.000452	-2.6	2.08E-01	2.51E-01

	A	B	C	D	E	F
211	mir-4636(1)	0.000127	0.000336	-2.6	1.91E-01	2.35E-01
212	mir-320(1)	0.252893	0.665174	-2.6	3.15E-04	7.43E-04
213	mir-29a(4)	0.263311	0.698015	-2.7	3.81E-02	5.49E-02
214	mir-99b(3)	0.223276	0.617693	-2.8	1.72E-05	5.73E-05
215	mir-616(1)	0.000073	0.000176	-2.8	1.92E-01	2.35E-01
216	mir-584(1)	0.000414	0.001225	-2.9	4.47E-02	6.35E-02
217	mir-3193(1)	0.000000	0.000007	-2.9	8.78E-02	1.16E-01
218	mir-3613(1)	0.004153	0.012200	-2.9	8.36E-04	1.79E-03
219	mir-224(2)	0.038827	0.134475	-3.5	1.96E-06	7.87E-06
220	mir-3617(1)	0.000091	0.000373	-3.5	1.88E-01	2.33E-01
221	mir-218-1(3)	0.023478	0.084537	-3.6	1.94E-05	6.20E-05
222	mir-149(1)	0.007679	0.030756	-4.0	3.10E-03	5.72E-03
223	mir-200a(3)	0.134123	0.552975	-4.1	1.27E-02	2.04E-02
224	mir-574(1)	0.018232	0.075915	-4.2	2.52E-06	9.88E-06
225	mir-181c(2)	0.008084	0.034252	-4.2	1.81E-05	5.86E-05
226	mir-3155(1)	0.000000	0.000015	-4.7	4.25E-02	6.07E-02
227	mir-137(1)	0.000233	0.001172	-4.9	1.55E-02	2.44E-02
228	mir-210(1)	0.076018	0.375648	-4.9	1.56E-04	3.98E-04
229	mir-190a(1)	0.005695	0.028251	-5.0	3.30E-05	1.03E-04
230	mir-582(1)	0.000816	0.004212	-5.0	6.34E-03	1.11E-02
231	mir-450a-1(4)	0.024000	0.128143	-5.3	3.76E-05	1.16E-04
232	mir-328(1)	0.000793	0.004495	-5.6	7.89E-05	2.19E-04
233	mir-3152(1)	0.000000	0.000020	-5.9	1.40E-02	2.23E-02
234	mir-26a-1(2)	0.660088	3.933767	-6.0	4.02E-05	1.23E-04
235	mir-3692(1)	0.000000	0.000021	-6.0	9.12E-03	1.53E-02
236	mir-4504(1)	0.000000	0.000028	-6.2	1.45E-02	2.30E-02
237	mir-132(2)	0.001216	0.008202	-6.7	2.41E-04	5.89E-04
238	mir-455(1)	0.012907	0.092868	-7.2	7.05E-07	3.19E-06
239	mir-3612(1)	0.000000	0.000035	-7.2	3.58E-02	5.20E-02
240	mir-570(1)	0.000114	0.000991	-7.7	5.77E-03	1.02E-02

	A	B	C	D	E	F
241	mir-193a(5)	0.040027	0.316366	-7.9	1.42E-08	9.41E-08
242	mir-3146(1)	0.000000	0.000044	-8.1	9.12E-03	1.53E-02
243	mir-147(1)	0.000163	0.001446	-8.4	8.95E-03	1.52E-02
244	mir-153-1(2)	0.001259	0.011377	-8.9	2.49E-04	6.03E-04
245	mir-3619(1)	0.000000	0.000045	-10.4	1.14E-03	2.33E-03
246	mir-205(1)	0.165149	1.730184	-10.5	1.59E-03	3.10E-03
247	mir-208b(1)	0.000000	0.000048	-10.6	1.63E-01	2.06E-01
248	mir-4709(1)	0.000000	0.000041	-10.6	1.29E-03	2.58E-03
249	mir-3657(1)	0.000000	0.000041	-11.0	2.34E-03	4.38E-03
250	mir-3614(1)	0.000000	0.000053	-11.7	2.84E-03	5.30E-03
251	mir-22(1)	0.120616	1.419786	-11.8	1.35E-07	7.11E-07
252	mir-3942(1)	0.000000	0.000052	-12.0	1.34E-03	2.67E-03
253	mir-26b(1)	0.073691	0.901023	-12.2	2.29E-09	2.01E-08
254	mir-139(1)	0.001919	0.024784	-12.9	3.46E-10	3.70E-09
255	mir-4731(1)	0.000000	0.000061	-13.9	2.02E-03	3.86E-03
256	mir-135a-1(3)	0.072593	1.097216	-15.1	6.48E-13	1.67E-11
257	mir-3173(1)	0.000000	0.000072	-15.3	4.62E-03	8.27E-03
258	mir-196a-1(3)	0.006464	0.099951	-15.5	6.03E-08	3.35E-07
259	mir-1247(1)	0.000225	0.003620	-15.5	1.70E-04	4.26E-04
260	mir-4473(1)	0.000000	0.000070	-16.2	3.09E-04	7.37E-04
261	mir-675(1)	0.000337	0.005753	-16.9	5.66E-04	1.25E-03
262	mir-126(1)	0.065103	1.103312	-16.9	8.07E-11	1.07E-09
263	mir-4638(1)	0.000000	0.000085	-18.2	8.09E-04	1.74E-03
264	mir-338(1)	0.002253	0.041242	-18.3	1.14E-07	6.24E-07
265	mir-346(1)	0.000000	0.000087	-18.7	7.66E-04	1.68E-03
266	mir-23a(6)	0.449232	9.158310	-20.4	4.68E-13	1.35E-11
267	mir-181a-1(4)	0.027796	0.595786	-21.4	1.18E-11	2.33E-10
268	mir-1976(1)	0.000000	0.000103	-21.6	1.09E-04	2.96E-04
269	mir-3136(1)	0.000000	0.000100	-21.7	1.27E-04	3.37E-04
270	mir-770(1)	0.000000	0.000099	-22.7	3.43E-04	7.99E-04

	A	B	C	D	E	F
271	mir-122(1)	0.000000	0.000094	-22.8	1.91E-04	4.72E-04
272	mir-142(1)	0.008405	0.194757	-23.1	1.56E-08	1.01E-07
273	mir-4789(1)	0.000000	0.000097	-23.3	9.50E-04	1.99E-03
274	mir-1179(1)	0.000000	0.000101	-24.1	1.16E-04	3.11E-04
275	mir-146b(1)	0.006818	0.165459	-24.2	7.75E-09	5.85E-08
276	mir-3940(1)	0.000000	0.000107	-24.8	9.59E-04	2.00E-03
277	mir-1294(1)	0.000000	0.000115	-26.1	1.63E-05	5.48E-05
278	mir-506(11)	0.002043	0.057655	-28.0	3.44E-06	1.31E-05
279	mir-195(2)	0.019385	0.542734	-28.0	3.77E-11	5.97E-10
280	mir-4772(1)	0.000000	0.000131	-29.0	1.81E-05	5.86E-05
281	mir-146a(1)	0.006377	0.185724	-29.1	1.27E-07	6.81E-07
282	mir-1537(1)	0.000000	0.000132	-30.2	1.33E-04	3.48E-04
283	mir-2681(2)	0.000000	0.000163	-36.2	2.54E-05	7.98E-05
284	mir-1245(2)	0.000000	0.000161	-37.3	9.92E-05	2.71E-04
285	mir-424(2)	0.037686	1.437491	-38.1	2.60E-12	5.49E-11
286	mir-2114(1)	0.000000	0.000174	-38.5	3.16E-04	7.43E-04
287	mir-196b(1)	0.001470	0.060593	-42.6	4.13E-04	9.42E-04
288	mir-483(1)	0.000238	0.011713	-50.4	2.26E-05	7.17E-05
289	mir-934(1)	0.000000	0.000230	-51.1	1.45E-04	3.74E-04
290	mir-383(1)	0.000000	0.000241	-51.4	1.37E-05	4.72E-05
291	mir-150(1)	0.000447	0.023777	-54.8	2.71E-07	1.34E-06
292	mir-1-1(4)	0.005706	0.329325	-57.6	4.84E-07	2.26E-06
293	mir-134(43)	0.014264	0.849155	-59.5	3.00E-14	1.90E-12
294	mir-3194(1)	0.000000	0.000311	-67.5	1.75E-06	7.18E-06
295	mir-1255a(1)	0.000000	0.000350	-73.6	9.97E-07	4.45E-06
296	mir-152(1)	0.005978	0.499666	-83.6	1.80E-13	5.70E-12
297	mir-208a(1)	0.000000	0.000452	-93.7	2.91E-03	5.39E-03
298	mir-216a(3)	0.000000	0.000477	-104.6	1.15E-08	7.95E-08
299	mir-513b(1)	0.000000	0.000544	-119.9	9.28E-06	3.38E-05
300	mir-514b(1)	0.000000	0.000628	-137.8	1.80E-06	7.31E-06

	A	B	C	D	E	F
301	mir-3910(1)	0.000000	0.000647	-142.1	1.01E-05	3.63E-05
302	mir-190b(1)	0.000000	0.000730	-158.6	1.84E-08	1.17E-07
303	mir-98(13)	0.068165	14.868133	-218.1	1.53E-19	2.42E-17
304	mir-513c(1)	0.000000	0.001057	-230.2	1.71E-06	7.13E-06
305	mir-199b(1)	0.004781	1.436779	-299.8	7.36E-16	5.83E-14
306	mir-10b(1)	0.002026	0.724261	-361.8	4.25E-08	2.54E-07
307	let-7i(1)	0.002948	1.353406	-463.5	5.85E-14	2.65E-12
308	mir-202(1)	0.000000	0.002705	-581.7	9.76E-09	7.19E-08
309	mir-143(2)	0.013066	9.717483	-743.8	1.10E-13	3.88E-12
310	mir-199a-1(3)	0.003052	2.683622	-880.8	5.10E-17	5.38E-15
311	mir-511-1(2)	0.000000	0.004168	-896.1	2.14E-11	3.56E-10
312	mir-944(1)	0.000000	0.004338	-938.1	4.22E-09	3.35E-08
313	mir-10a(1)	0.000105	0.122253	-1011.2	3.11E-10	3.52E-09
314	mir-203(1)	0.004226	4.440840	-1046.9	6.31E-09	4.88E-08
315	mir-127(8)	0.000377	0.437495	-1129.3	7.64E-10	7.57E-09
316	mir-144(2)	0.001466	1.679495	-1135.6	2.04E-11	3.56E-10
317	mir-370(1)	0.000000	0.008046	-1741.5	4.25E-11	6.12E-10
318	mir-211(1)	0.000000	0.024324	-5246.7	7.07E-13	1.67E-11
319	mir-223(1)	0.000000	0.025329	-5466.1	5.34E-14	2.65E-12

	A	B	C	D	E	F	G	H
1	SUPPLEMENTARY TABLE SIII							
2	TABLE LEGEND							
3								
4	Sheet "mRNAs Propranolol-control": mRNA sequencing data showing mRNAs differentially expressed in iPSCs after 72h propranolol treatment compared to							
5								
6	Sheet "Geneset Hallmark Propranolol": Hallmark gene set analysis of differentially expressed genes after propranolol treatment of iPSCs							
7								
8	Sheet "GeneSet C2 Propranolol": Curated gene set analysis of differentially expressed genes after propranolol treatment of iPSCs							

1	A	B	C	D	E	F	G	H	I	J	K	L	M
2	Gene		Linear Fold Change	P Value	FDR	TestMean	TestStdDev	TestMin	TestMax	RefMean	RefStdDev	RefMin	RefMax
3	ENSG00000166535	A2ML1	-1.5	2.983E-05	0.0003322	1.859	0.354	1.497	2.204	2.830	0.254	2.559	3.062
4	ENSG00000128274	A4GALT	-1.2	0.0227703	0.0698051	5.170	1.039	4.064	6.125	6.557	0.873	5.897	7.546
5	ENSG00000094914	AAAS	-1.1	0.0682346	0.160709	39.346	2.025	37.881	41.657	43.036	0.810	42.186	43.798
6	ENSG00000081760	AACS	1.2	4.851E-06	7.248E-05	12.661	0.569	12.082	13.219	10.749	0.654	9.997	11.185
7	ENSG00000109576	AADAT	1.1	0.0317517	0.090283	16.416	0.590	16.008	17.093	14.905	1.055	14.008	16.067
8	ENSG00000103591	AAGAB	1.1	0.0002224	0.0017382	48.859	1.272	47.486	49.998	43.655	1.135	42.762	44.933
9	ENSG00000090861	AARS	1.4	2.55E-17	8.99E-15	256.831	3.320	254.489	260.630	181.171	4.665	175.808	184.288
10	ENSG00000124608	AARS2	1.2	8.01E-05	0.0007531	22.407	2.403	19.787	24.507	18.449	0.160	18.288	18.608
11	ENSG00000157426	AASDH	-1.1	0.0614161	0.1481995	16.846	0.270	16.614	17.142	18.698	0.452	18.252	19.155
12	ENSG00000149313	AASDHPTT	-1.1	0.0524612	0.1318585	35.056	0.346	34.671	35.341	38.243	0.902	37.361	39.164
13	ENSG00000275700	AATF	-1.1	0.0233914	0.071302	29.402	1.269	27.938	30.181	32.718	0.948	32.039	33.801
14	ENSG00000165029	ABCA1	1.5	3.239E-08	1.022E-06	14.785	2.050	13.060	17.052	10.379	0.701	9.851	11.175
15	ENSG00000251595	ABCA11P	1.4	0.0935161	0.2035045	1.239	0.115	1.111	1.335	0.900	0.234	0.668	1.137
16	ENSG00000064687	ABCA7	-1.2	0.0011252	0.0064671	6.137	0.327	5.792	6.441	7.690	0.875	6.830	8.580
17	ENSG00000135776	ABCB10	1.2	0.0034686	0.0158168	13.024	1.005	11.953	13.946	11.130	0.697	10.470	11.859
18	ENSG00000023839	ABCC2	-1.5	0.0368972	0.1006359	0.420	0.085	0.332	0.502	0.630	0.059	0.589	0.698
19	ENSG00000114770	ABCC5	-1.1	0.0064568	0.02578	16.844	0.759	16.012	17.499	18.855	0.182	18.742	19.065
20	ENSG00000006071	ABCC8	-1.6	0.0089419	0.0332777	0.467	0.126	0.327	0.571	0.763	0.225	0.542	0.992
21	ENSG00000101986	ABCD1	1.2	0.1004523	0.2138524	4.164	0.512	3.697	4.712	3.681	0.158	3.584	3.864
22	ENSG00000117528	ABCD3	1.1	0.0532598	0.1333112	23.403	0.530	22.832	23.878	22.391	0.823	21.480	23.083
23	ENSG00000160179	ABCG1	-1.3	0.0028717	0.0135781	2.363	0.149	2.267	2.534	3.228	0.282	2.938	3.501
24	ENSG00000118777	ABCG2	1.8	1.946E-06	3.312E-05	2.588	0.363	2.225	2.950	1.492	0.073	1.409	1.549
27	ENSG00000172350	ABCG4	-1.6	9.671E-05	0.000879	1.071	0.074	1.012	1.154	1.795	0.111	1.709	1.920
28	ENSG00000100997	ABHD12	1.1	0.0099553	0.0363189	33.376	0.076	33.305	33.456	30.414	2.881	27.693	33.433
29	ENSG00000131969	ABHD12B	1.3	0.001984	0.01011	6.581	0.922	5.841	7.614	5.290	0.257	5.117	5.585
30	ENSG00000114779	ABHD14B	-1.3	0.0005265	0.0034921	6.716	0.418	6.457	7.198	9.034	0.352	8.764	9.433
31	ENSG00000107362	ABHD17B	-1.2	0.0009131	0.0054184	48.086	3.439	44.509	51.369	56.991	3.985	52.641	60.467
32	ENSG00000140526	ABHD2	-1.3	3.1E-08	9.819E-07	11.336	0.666	10.766	12.068	15.287	0.783	14.412	15.922
33	ENSG00000158201	ABHD3	1.2	0.0023697	0.0116509	7.736	0.395	7.372	8.156	6.377	0.653	5.660	6.936
34	ENSG00000100439	ABHD4	1.1	0.0054764	0.0226682	43.055	0.690	42.471	43.817	39.837	1.826	38.043	41.694
35	ENSG00000127220	ABHD8	-1.3	0.0003116	0.0022774	10.588	0.840	10.094	11.558	14.380	1.776	12.611	16.162
36	ENSG00000138443	ABI2	1	0.0978545	0.2100004	30.396	0.892	29.591	31.355	29.749	0.675	28.979	30.240
37	ENSG00000097007	ABL1	-1.1	0.0964274	0.2078382	52.340	2.986	49.074	54.932	56.545	3.450	53.528	60.307
38	ENSG00000099204	ABLIM1	1.2	1.184E-06	2.183E-05	24.842	0.929	23.857	25.704	21.182	0.500	20.711	21.707
39	ENSG00000159842	ABR	1.1	0.0328926	0.0927187	18.761	1.675	16.884	20.106	17.616	0.975	16.562	18.486
40	ENSG00000146386	ABRACL	1.3	1.357E-10	8.564E-09	266.547	13.250	257.496	281.755	207.195	4.372	204.019	212.181
41	ENSG00000114626	ABTB1	-1.2	0.0887778	0.196095	2.369	0.330	1.994	2.617	2.843	0.306	2.497	3.078
42	ENSG00000060971	ACAA1	1.2	0.0154201	0.0515925	8.138	0.494	7.713	8.680	7.218	0.212	7.069	7.461

	A	B	C	D	E	F	G	H	I	J	K	L	M
43	ENSG00000167315	ACAA2	-1.1	0.0300284	0.086343	56.576	1.966	54.319	57.911	61.783	2.168	60.166	64.246
44	ENSG00000278540	ACACA	1.2	1.403E-06	2.519E-05	69.050	2.640	66.070	71.099	60.978	1.944	59.734	63.218
45	ENSG00000111271	ACAD10	-1.1	0.1158662	0.2368151	8.072	0.295	7.853	8.408	8.885	0.484	8.540	9.439
46	ENSG00000117054	ACADM	1.1	0.0003695	0.0026159	38.944	1.080	37.877	40.037	34.783	1.314	33.287	35.748
47	ENSG00000196177	ACADSB	-1.2	0.0079275	0.0304209	7.555	0.433	7.251	8.051	8.938	0.281	8.615	9.126
48	ENSG00000072778	ACADVL	-1.1	0.0016155	0.0086054	52.598	1.427	51.601	54.233	59.753	1.613	58.385	61.531
49	ENSG00000072818	ACAP1	-1.2	0.0051624	0.0216385	4.524	0.253	4.360	4.815	5.579	0.519	5.232	6.175
50	ENSG00000114331	ACAP2	-1.1	0.0108499	0.0389521	20.329	0.928	19.300	21.102	22.799	0.893	22.168	23.822
51	ENSG00000075239	ACAT1	1.1	0.0022157	0.0109886	31.369	0.815	30.576	32.205	28.354	1.813	26.776	30.335
52	ENSG00000120437	ACAT2	1.8	8.20E-23	1.04E-19	127.746	0.647	127.120	128.412	71.437	1.779	69.488	72.972
53	ENSG00000182827	ACBD3	-1.2	1.53E-06	2.713E-05	43.063	1.273	41.598	43.892	54.040	2.184	51.607	55.831
54	ENSG00000181513	ACBD4	1.2	0.0126301	0.0439488	10.920	0.810	10.010	11.561	9.485	0.412	9.016	9.788
55	ENSG00000230124	ACBD6	1.2	4.987E-05	0.0005121	23.123	0.264	22.819	23.284	20.235	0.666	19.839	21.004
56	ENSG00000176244	ACBD7	1.2	0.0004419	0.00302	54.306	1.391	53.307	55.894	45.698	3.719	41.919	49.353
57	ENSG00000110455	ACCS	1.4	0.0002236	0.001746	3.907	0.121	3.776	4.015	2.867	0.258	2.635	3.145
58	ENSG00000177076	ACER2	-1.3	0.0006481	0.0041291	10.989	0.779	10.331	11.850	14.332	1.047	13.184	15.235
59	ENSG00000078124	ACER3	1.3	5.347E-06	7.864E-05	10.183	0.132	10.063	10.324	8.240	0.493	7.848	8.793
60	ENSG00000087085	ACHE	1.6	0.0003606	0.0025613	3.162	0.598	2.613	3.799	2.053	0.310	1.707	2.306
61	ENSG00000100813	ACIN1	-1.1	0.0200484	0.0631588	105.258	2.075	103.627	107.593	114.570	5.646	108.394	119.466
62	ENSG00000144476	ACKR3	-2.6	0.0031158	0.014533	0.284	0.164	0.132	0.458	0.774	0.119	0.665	0.900
63	ENSG00000131473	ACLY	1.2	1.784E-10	1.093E-08	247.298	8.297	237.754	252.803	202.396	8.338	193.662	210.271
64	ENSG00000122729	ACO1	1.1	0.0012158	0.0068701	48.319	2.674	46.131	51.299	44.116	2.273	42.797	46.742
65	ENSG00000184227	ACOT1	1.3	0.0154302	0.0516058	5.587	0.221	5.333	5.725	4.336	0.556	3.698	4.714
66	ENSG00000112304	ACOT13	1.1	0.0166099	0.054665	48.758	1.075	47.610	49.741	45.903	2.226	43.709	48.159
67	ENSG00000097021	ACOT7	1.1	0.060471	0.1465252	59.971	1.503	58.285	61.170	57.718	0.159	57.578	57.891
68	ENSG00000161533	ACOX1	-1.2	1.315E-05	0.0001685	9.968	0.574	9.550	10.622	12.616	0.781	11.878	13.434
70	ENSG00000168306	ACOX2	1.5	0.007539	0.0292044	1.522	0.040	1.493	1.569	1.001	0.329	0.778	1.378
71	ENSG00000087008	ACOX3	1.3	0.0040362	0.0178985	6.121	0.806	5.191	6.607	4.927	0.182	4.773	5.128
72	ENSG00000153093	ACOXL	-1.7	3.095E-08	9.819E-07	3.195	0.208	3.007	3.419	5.475	0.408	5.026	5.824
73	ENSG00000102575	ACP5	1.3	0.0001775	0.001451	9.298	0.356	9.053	9.707	7.084	0.409	6.614	7.354
74	ENSG00000014257	ACPP	-1.8	0.0088877	0.0331314	0.459	0.197	0.246	0.634	0.837	0.048	0.783	0.876
75	ENSG00000111644	ACRBP	-1.8	0.0007299	0.0045219	1.303	0.513	0.728	1.714	2.428	0.184	2.255	2.622
76	ENSG00000103740	ACSBG1	1.4	0.0080142	0.0306385	1.285	0.279	0.987	1.539	0.926	0.155	0.750	1.045
77	ENSG00000151726	ACSL1	1.5	8.766E-08	2.431E-06	6.882	0.640	6.418	7.612	4.607	0.019	4.594	4.629
78	ENSG00000123983	ACSL3	1.4	1.45E-13	1.91E-11	93.516	2.577	90.749	95.847	70.034	0.750	69.220	70.696
79	ENSG00000068366	ACSL4	1.2	5.871E-09	2.353E-07	77.828	2.715	75.201	80.623	63.896	2.756	60.716	65.584
80	ENSG00000005187	ACSM3	-1.2	0.0174312	0.0566296	4.336	0.531	3.907	4.930	5.246	0.330	4.918	5.579
81	ENSG00000131069	ACSS2	2.5	4.00E-22	3.56E-19	30.546	2.709	27.418	32.154	12.419	0.308	12.141	12.750
82	ENSG00000143632	ACTA1	2.4	4.932E-09	2.024E-07	11.789	1.676	10.370	13.638	5.042	0.928	4.259	6.068
83	ENSG00000107796	ACTA2	1.5	3.29E-05	0.0003597	7.992	1.366	6.558	9.277	5.351	0.796	4.436	5.888
84	ENSG00000075624	ACTB	1.2	8.017E-06	0.0001105	3739.278	287.998	3406.942	3915.806	3254.683	75.791	3177.188	3328.646
85	ENSG00000213763	ACTBP2	1.2	0.0044127	0.0192002	38.723	5.038	32.934	42.122	32.679	1.794	31.208	34.678
86	ENSG00000159251	ACTC1	1.8	0.0006799	0.0042781	14.739	3.128	11.219	17.198	8.271	0.645	7.599	8.886

	A	B	C	D	E	F	G	H	I	J	K	L	M
88	ENSG00000184009	ACTG1	1.1	0.0248949	0.0747333	2903.197	212.986	2672.042	3091.497	2717.444	76.481	2644.448	2796.989
89	ENSG00000163017	ACTG2	1.4	0.0186251	0.0595814	2.760	0.273	2.479	3.024	2.052	0.751	1.354	2.846
90	ENSG00000136518	ACTL6A	-1.1	0.0173977	0.0565752	63.936	2.458	61.588	66.490	70.549	2.838	67.275	72.305
91	ENSG00000077080	ACTL6B	-1.9	0.0034654	0.0158109	0.723	0.095	0.618	0.803	1.427	0.273	1.113	1.607
92	ENSG00000117148	ACTL8	-1.9	0.0716255	0.1667449	0.425	0.395	0.158	0.879	0.821	0.300	0.627	1.166
93	ENSG00000072110	ACTN1	1.2	2.419E-09	1.074E-07	89.429	3.853	85.149	92.620	73.575	4.137	70.996	78.347
95	ENSG00000248746	ACTN3	-1.7	1.59E-11	1.274E-09	10.882	1.062	9.655	11.510	19.262	1.014	18.174	20.180
96	ENSG00000130402	ACTN4	1.3	7.72E-11	5.12E-09	189.263	5.172	183.793	194.075	152.706	6.031	148.359	159.592
97	ENSG00000138107	ACTR1A	-1.1	0.0130056	0.0450378	70.635	0.856	69.648	71.163	77.862	2.593	76.282	80.854
98	ENSG00000115091	ACTR3	1.2	1.16E-06	2.15E-05	45.837	0.616	45.363	46.533	40.326	0.434	39.875	40.742
99	ENSG00000133627	ACTR3B	-1.2	0.0096617	0.0354312	10.411	0.547	10.086	11.043	12.276	1.100	11.099	13.277
100	ENSG00000114739	ACVR2B	-1.1	0.0041817	0.0183986	31.614	1.080	30.525	32.685	35.075	1.320	33.972	36.537
101	ENSG00000196839	ADA	-1.1	0.0629648	0.1512676	20.593	2.870	17.970	23.658	23.413	0.825	22.646	24.286
102	ENSG00000093072	ADA2	-1.1	0.0160529	0.0533195	9.980	0.243	9.735	10.221	11.563	0.934	10.718	12.566
103	ENSG00000168803	ADAL	-1.1	0.0525291	0.13199	8.288	0.637	7.738	8.986	9.644	1.278	8.506	11.027
104	ENSG00000137845	ADAM10	1.1	0.0515425	0.1299358	34.312	1.470	33.385	36.007	33.205	0.431	32.937	33.701
105	ENSG00000148848	ADAM12	3	0.0111491	0.0397732	0.115	0.077	0.030	0.180	0.038	0.024	0.016	0.063
106	ENSG00000135074	ADAM19	1.3	4.047E-05	0.0004302	9.129	0.998	8.413	10.269	7.402	0.159	7.257	7.572
107	ENSG00000008277	ADAM22	1.1	0.0015559	0.0083378	9.005	0.046	8.962	9.053	8.061	0.166	7.880	8.205
108	ENSG00000114948	ADAM23	1.1	0.0046183	0.0198824	15.029	1.328	13.597	16.221	13.418	0.430	13.036	13.884
109	ENSG00000042980	ADAM28	-1.7	0.0367003	0.1003582	0.185	0.047	0.158	0.239	0.325	0.072	0.249	0.393
110	ENSG00000149451	ADAM33	-1.3	0.014292	0.048636	2.666	0.101	2.558	2.759	3.404	0.557	2.889	3.994
111	ENSG00000151651	ADAM8	-1.2	0.0215321	0.0668329	2.923	0.133	2.774	3.029	3.679	0.274	3.411	3.959
112	ENSG00000168615	ADAM9	1.3	3.965E-07	8.858E-06	23.710	0.687	23.017	24.390	18.731	0.881	17.896	19.651
113	ENSG00000154734	ADAMTS1	1.2	0.0214057	0.0664774	4.559	0.411	4.121	4.936	3.997	0.414	3.676	4.464
114	ENSG00000151388	ADAMTS12	1.2	0.00606	0.0245609	8.095	0.446	7.580	8.365	7.125	0.907	6.115	7.870
115	ENSG00000160323	ADAMTS13	-1.3	0.0085189	0.0320391	3.338	0.407	2.976	3.779	4.268	0.144	4.122	4.411
116	ENSG00000138316	ADAMTS14	1.5	0.0008986	0.0053478	2.643	0.600	1.990	3.168	1.771	0.202	1.647	2.004
117	ENSG00000145536	ADAMTS16	1.4	3.752E-07	8.462E-06	9.320	0.796	8.411	9.897	6.688	0.460	6.225	7.145
118	ENSG00000087116	ADAMTS2	-1.3	0.0009385	0.0055499	2.434	0.434	2.081	2.920	3.343	0.107	3.221	3.423
119	ENSG00000173157	ADAMTS20	-1.1	0.0216609	0.067134	5.794	0.261	5.493	5.953	6.773	0.614	6.069	7.190
120	ENSG00000156140	ADAMTS3	-1.4	0.0001924	0.001548	3.099	0.213	2.964	3.344	4.345	0.295	4.006	4.537
122	ENSG00000158859	ADAMTS4	-1.4	1.369E-06	2.474E-05	4.027	0.133	3.893	4.158	5.755	0.354	5.441	6.139

	A	B	C	D	E	F	G	H	I	J	K	L	M
123	ENSG00000049192	ADAMTS6	-1.6	6.605E-05	0.0006443	1.164	0.131	1.017	1.270	1.861	0.042	1.813	1.890
124	ENSG00000136378	ADAMTS7	-1.3	1.42E-06	2.547E-05	22.596	0.571	22.007	23.148	28.919	3.010	26.606	32.322
125	ENSG00000134917	ADAMTS8	-1.7	8.831E-07	1.723E-05	2.698	0.602	2.319	3.393	4.623	0.264	4.391	4.910
126	ENSG00000197859	ADAMTSL2	-1.4	0.0085088	0.0320155	1.415	0.086	1.326	1.497	1.986	0.057	1.927	2.040
127	ENSG00000143382	ADAMTSL4	-1.2	0.0758814	0.1739779	2.771	0.217	2.527	2.938	3.302	0.242	3.161	3.581
128	ENSG00000185736	ADARB2	-1.2	0.0154367	0.0516073	1.592	0.151	1.460	1.757	2.000	0.243	1.746	2.231
129	ENSG00000063761	ADCK1	1.4	0.0001572	0.0013087	6.258	0.763	5.581	7.086	4.727	0.390	4.295	5.053
130	ENSG00000164742	ADCY1	-1.2	0.0002159	0.0016946	9.266	0.283	9.068	9.591	11.080	0.837	10.213	11.883
131	ENSG00000161912	ADCY10P1	-1.2	0.0240414	0.0727263	5.898	0.594	5.294	6.481	6.960	0.352	6.628	7.328
132	ENSG00000138031	ADCY3	1.2	0.0012838	0.007166	15.699	0.728	14.891	16.305	13.690	1.032	12.562	14.587
133	ENSG00000173175	ADCY5	-1.4	2.749E-07	6.512E-06	5.427	0.505	5.025	5.994	7.664	0.430	7.411	8.161
134	ENSG00000155897	ADCY8	1.7	0.0001062	0.0009471	4.065	1.071	3.399	5.300	2.489	0.438	2.184	2.991
135	ENSG00000148700	ADD3	1.1	0.0674515	0.1593752	95.018	2.764	91.937	97.281	92.281	3.986	87.728	95.142
136	ENSG00000152990	ADGRA3	1.3	6.156E-09	2.45E-07	30.398	0.527	29.802	30.802	24.659	0.706	23.878	25.252
137	ENSG00000181790	ADGRB1	-1.1	0.0802632	0.1817258	3.175	0.192	2.991	3.374	3.687	0.456	3.199	4.103
138	ENSG00000121753	ADGRB2	-1.2	0.0087967	0.0328645	7.500	0.532	6.891	7.876	8.898	0.763	8.306	9.760
139	ENSG00000205336	ADGRG1	-1.4	0.0262792	0.0778525	0.741	0.103	0.631	0.836	1.026	0.218	0.809	1.246
140	ENSG00000173698	ADGRG2	1.2	0.0002684	0.0020233	12.474	1.135	11.181	13.307	10.702	0.440	10.222	11.087
141	ENSG00000182885	ADGRG3	-1.5	0.0300364	0.0863514	0.771	0.111	0.665	0.887	1.217	0.189	1.026	1.403
142	ENSG00000159618	ADGRG5	1.3	0.0377434	0.1022956	1.569	0.175	1.438	1.767	1.245	0.200	1.016	1.380
143	ENSG00000112414	ADGRG6	1.4	0.0002037	0.0016182	2.559	0.263	2.267	2.778	1.837	0.327	1.556	2.197
144	ENSG00000072071	ADGRL1	-1.1	0.0011269	0.0064694	37.997	1.253	36.776	39.281	43.359	2.189	41.284	45.646
145	ENSG00000117114	ADGRL2	-1.2	3.195E-06	5.031E-05	73.012	2.781	70.611	76.060	87.023	4.279	83.198	91.644
146	ENSG00000162618	ADGRL4	1.7	0.0724929	0.1682779	3.850	2.242	2.330	6.425	2.357	0.082	2.297	2.451
147	ENSG00000164199	ADGRV1	-1.1	0.0916263	0.2009173	7.486	0.213	7.251	7.665	8.079	0.206	7.861	8.270
148	ENSG00000197894	ADH5	1.1	0.013485	0.046356	167.901	1.411	166.564	169.376	160.704	3.037	158.021	164.002
149	ENSG00000182551	ADI1	1.2	0.0007624	0.0046768	17.931	0.608	17.230	18.310	15.469	2.074	13.938	17.829
150	ENSG0000006831	ADIPOR2	1.2	2.417E-05	0.000279	34.238	0.798	33.332	34.836	30.002	1.342	29.016	31.530
151	ENSG00000156110	ADK	1.1	0.0043795	0.0190805	30.724	1.634	29.325	32.520	27.650	1.113	26.469	28.680
152	ENSG00000148926	ADM	1.7	1.62E-14	2.84E-12	108.195	6.202	101.961	114.365	64.116	5.294	59.729	69.997
153	ENSG00000128165	ADM2	1.9	1.50E-12	1.591E-10	12.688	0.741	12.160	13.535	6.898	0.576	6.283	7.425
154	ENSG00000101126	ADNP	-1.1	0.0004405	0.0030129	70.556	1.856	68.808	72.503	79.798	0.500	79.249	80.227
155	ENSG00000259456	ADNP-AS1	1.6	0.075818	0.173896	2.129	0.917	1.593	3.187	1.321	0.277	1.005	1.518
156	ENSG00000101544	ADNP2	-1.1	0.0001008	0.0009095	37.891	1.205	36.507	38.709	44.154	1.616	42.961	45.993
157	ENSG00000128271	ADORA2A	-1.5	0.0545281	0.1357425	0.483	0.083	0.387	0.533	0.747	0.064	0.704	0.821
158	ENSG00000170425	ADORA2B	1.3	0.0248862	0.0747333	4.337	0.443	4.054	4.847	3.481	0.307	3.127	3.664
159	ENSG00000159322	ADPGK	1.3	7.165E-08	2.023E-06	17.085	1.386	15.484	17.885	12.984	0.496	12.526	13.511
160	ENSG00000170222	ADPRM	-1.2	0.1087028	0.2265775	9.540	0.778	8.749	10.305	11.204	1.831	9.375	13.037

	A	B	C	D	E	F	G	H	I	J	K	L	M
161	ENSG00000150594	ADRA2A	-1.8	3.032E-07	7.074E-06	2.439	0.116	2.307	2.525	4.565	0.115	4.456	4.686
162	ENSG00000239900	ADSL	1.1	0.0876766	0.1942714	7.158	0.286	6.851	7.417	6.643	0.437	6.243	7.109
163	ENSG00000035687	ADSS	1.1	0.0551393	0.1369413	100.132	7.909	92.557	108.337	96.283	1.608	95.051	98.102
164	ENSG00000185100	ADSSL1	-1.2	0.0027602	0.0132021	5.925	0.244	5.650	6.114	7.412	0.220	7.261	7.664
165	ENSG00000106624	AEBP1	1.1	0.0049144	0.020868	20.694	0.638	20.145	21.394	18.530	0.740	17.750	19.222
166	ENSG00000139154	AEBP2	-1.1	0.0059004	0.0240816	45.622	2.347	43.005	47.538	51.326	3.080	49.364	54.876
167	ENSG00000181026	AEN	-1.1	3.498E-05	0.000379	77.449	3.092	74.839	80.864	90.982	4.879	85.624	95.170
168	ENSG00000104964	AES	-1.3	7.542E-08	2.12E-06	37.888	2.168	35.448	39.594	48.861	3.532	45.202	52.251
169	ENSG00000196526	AFAP1	1.2	0.0044229	0.0192206	7.388	0.443	7.051	7.890	6.559	0.404	6.159	6.966
170	ENSG00000169129	AFAP1L2	-1.3	0.0089319	0.0332525	2.192	0.200	1.965	2.342	2.894	0.116	2.817	3.027
171	ENSG00000130396	AFDN	-1.1	0.0004039	0.0028141	65.567	1.488	64.198	67.151	73.603	0.654	73.184	74.357
172	ENSG00000198221	AFDN-AS1	-1.3	0.0047271	0.0202661	6.001	0.624	5.376	6.623	8.001	1.088	6.783	8.876
173	ENSG00000172493	AFF1	1.1	1.876E-05	0.0002249	34.499	0.724	33.814	35.257	30.724	0.929	29.944	31.752
174	ENSG00000155966	AFF2	-1.2	0.0002843	0.002121	4.004	0.141	3.911	4.167	5.034	0.210	4.802	5.211
175	ENSG00000072364	AFF4	1.1	0.0508345	0.1286686	44.089	1.407	42.479	45.076	42.531	1.293	41.602	44.008
176	ENSG00000135537	AFG1L	1.2	0.0567313	0.1396036	2.324	0.333	1.975	2.638	2.005	0.249	1.718	2.150
177	ENSG00000183077	AFMID	-1.3	9.043E-07	1.762E-05	13.177	0.515	12.587	13.540	17.979	0.736	17.149	18.552
178	ENSG00000081051	AFP	-1.4	0.1123298	0.2317861	0.576	0.094	0.498	0.680	0.832	0.056	0.768	0.871
179	ENSG00000119844	AFTPH	-1.1	0.038915	0.1046207	15.520	0.695	14.751	16.103	17.450	1.097	16.726	18.713
180	ENSG00000038002	AGA	1.2	0.0300213	0.0863374	8.344	0.440	7.838	8.633	7.166	1.010	6.114	8.127
181	ENSG00000157985	AGAP1	-1.1	0.0648106	0.1544339	10.907	0.299	10.717	11.251	12.006	0.745	11.232	12.717
182	ENSG00000135439	AGAP2	1.7	1.019E-05	0.0001356	2.707	0.475	2.214	3.162	1.668	0.062	1.616	1.736
183	ENSG00000204149	AGAP6	-1.1	0.1241312	0.2491905	13.166	0.327	12.790	13.372	14.696	1.155	13.531	15.840
184	ENSG00000204172	AGAP9	-1.1	0.0980667	0.210278	8.233	1.079	7.312	9.420	9.696	1.080	8.948	10.935
185	ENSG00000204305	AGER	1.2	0.1128957	0.2325424	9.606	0.873	8.672	10.401	8.416	1.015	7.392	9.421
186	ENSG00000106351	AGFG2	1.3	0.0285341	0.083049	2.263	0.401	1.806	2.557	1.780	0.275	1.615	2.098
187	ENSG00000006530	AGK	1.2	0.0002023	0.0016106	22.141	0.728	21.537	22.950	19.225	0.151	19.119	19.398
188	ENSG00000123908	AGO2	-1.1	0.0002162	0.0016963	37.214	0.866	36.648	38.211	42.432	1.918	40.254	43.868
189	ENSG00000126070	AGO3	-1.1	0.0929079	0.2025169	3.771	0.137	3.687	3.929	4.156	0.278	3.854	4.402
190	ENSG00000204310	AGPAT1	-1.1	0.0873438	0.1937267	52.200	4.209	47.819	56.213	57.002	3.333	53.775	60.432
191	ENSG00000160216	AGPAT3	1.6	2.732E-06	4.435E-05	3.030	0.493	2.496	3.469	1.965	0.286	1.729	2.282
192	ENSG00000026652	AGPAT4	1.1	0.100875	0.2144149	14.603	0.702	13.796	15.069	13.990	0.673	13.360	14.699
193	ENSG00000279355	AGPAT4-IT1	-1.4	0.022671	0.0695511	3.708	0.458	3.302	4.205	5.203	1.225	3.887	6.309
194	ENSG00000155189	AGPAT5	1.1	0.0081647	0.0310942	64.339	4.221	60.116	68.558	59.903	1.430	58.884	61.538
195	ENSG00000188157	AGRN	1.1	0.0203699	0.0639652	59.018	0.980	57.943	59.862	55.660	5.126	51.478	61.379
196	ENSG00000153207	AHCTF1	-1.1	0.057812	0.141727	25.613	1.221	24.265	26.643	27.907	1.472	26.802	29.577
197	ENSG00000101444	AHCY	-1.1	0.0004756	0.0032123	259.452	4.957	253.923	263.498	292.262	7.503	286.974	300.849
198	ENSG00000168710	AHCYL1	1	0.1232838	0.2478425	114.021	2.963	111.867	117.400	111.864	2.380	109.278	113.961
199	ENSG00000126705	AHDC1	-1.1	0.0262305	0.0777764	9.439	0.654	8.788	10.096	10.789	0.534	10.307	11.363
200	ENSG00000124942	AHNAK	1.6	2.806E-07	6.638E-06	18.932	2.481	16.316	21.252	12.128	0.846	11.163	12.743
201	ENSG00000185567	AHNAK2	1.2	0.0092055	0.0340333	1.720	0.167	1.564	1.896	1.464	0.070	1.387	1.522

	A	B	C	D	E	F	G	H	I	J	K	L	M
202	ENSG00000169877	AHSP	-2	0.0010628	0.0061858	3.515	1.002	2.366	4.203	7.398	2.120	4.974	8.905
203	ENSG00000204472	AIF1	-1.3	0.0084844	0.0319521	6.577	0.425	6.252	7.058	8.977	1.133	7.967	10.202
204	ENSG00000126878	AIF1L	1.3	3.14E-11	2.322E-09	128.692	5.820	122.735	134.365	102.876	1.596	101.931	104.719
205	ENSG00000156709	AIFM1	1.1	0.0230138	0.0703983	58.054	1.739	56.048	59.125	55.047	0.799	54.316	55.900
206	ENSG00000042286	AIFM2	1.4	0.0016435	0.0087303	3.172	0.269	2.988	3.481	2.371	0.311	2.015	2.589
207	ENSG00000146416	AIG1	1.2	0.0004377	0.0029988	13.682	0.728	12.860	14.244	11.788	0.366	11.436	12.167
208	ENSG00000106305	AIMP2	1.1	0.1087489	0.2266074	46.426	2.665	43.647	48.959	43.928	2.711	41.132	46.545
209	ENSG00000129474	AJUBA	1.3	9.164E-07	1.779E-05	45.855	3.508	42.597	49.568	36.903	2.644	34.974	39.917
210	ENSG00000106992	AK1	1.3	0.0742401	0.1711591	2.627	0.546	2.067	3.158	2.072	0.446	1.630	2.522
211	ENSG00000147853	AK3	1.3	1.951E-09	8.942E-08	54.667	1.461	53.256	56.173	43.225	0.525	42.702	43.753
212	ENSG00000162433	AK4	-1.2	0.0311728	0.0889081	34.185	5.798	30.365	40.857	40.768	1.417	39.803	42.395
213	ENSG00000154027	AK5	-1.2	0.0262527	0.0778285	2.685	0.552	2.219	3.295	3.352	0.129	3.208	3.458
214	ENSG00000140057	AK7	1.6	3.373E-08	1.054E-06	5.875	0.435	5.373	6.145	3.641	0.108	3.537	3.753
215	ENSG00000121057	AKAP1	-1.4	1.141E-09	5.451E-08	22.730	2.139	21.276	25.186	31.600	0.302	31.296	31.900
216	ENSG00000108599	AKAP10	-1.1	0.0240772	0.0728084	19.828	1.348	18.730	21.332	22.496	1.347	21.002	23.615
217	ENSG00000131016	AKAP12	1.3	5.53E-11	3.848E-09	80.299	2.864	77.564	83.276	64.440	0.670	63.876	65.182
218	ENSG00000170776	AKAP13	-1.2	3.71E-06	5.751E-05	9.273	0.389	8.948	9.704	11.330	0.193	11.111	11.480
219	ENSG00000197976	AKAP17A	-1.3	5.679E-07	1.199E-05	31.507	2.075	29.139	33.007	42.359	3.896	38.263	46.018
220	ENSG00000118507	AKAP7	1.5	1.108E-08	4.084E-07	13.819	0.953	13.247	14.919	9.648	0.513	9.154	10.179
221	ENSG00000011243	AKAP8L	-1.2	1.198E-05	0.0001556	53.363	2.581	50.419	55.243	63.640	1.962	62.413	65.902
222	ENSG00000127914	AKAP9	-1.2	0.0328246	0.0925888	10.749	0.870	9.882	11.623	12.892	0.862	11.974	13.683
223	ENSG00000174574	AKIRIN1	-1.2	2.646E-06	4.324E-05	308.320	10.721	300.090	320.445	362.875	11.343	355.982	375.967
224	ENSG00000106948	AKNA	1.2	0.0002407	0.001853	9.077	0.365	8.705	9.435	7.703	0.337	7.383	8.055
225	ENSG00000117448	AKR1A1	-1.1	0.0006319	0.0040516	124.481	0.986	123.716	125.594	140.413	2.778	137.263	142.511
226	ENSG00000227471	AKR1B15	1.6	0.0655477	0.1557471	0.653	0.187	0.515	0.866	0.425	0.075	0.353	0.502
227	ENSG00000196139	AKR1C3	1.4	0.0040489	0.017936	2.986	0.464	2.591	3.497	2.257	0.289	2.073	2.590
228	ENSG00000142208	AKT1	1.2	0.0004643	0.0031474	17.339	0.576	16.968	18.003	15.344	0.692	14.581	15.931
229	ENSG00000105221	AKT2	1.1	0.0492955	0.125729	21.113	0.576	20.455	21.530	20.292	0.998	19.625	21.439
230	ENSG00000117020	AKT3	-1.1	0.0031118	0.0145266	14.631	0.510	14.167	15.177	16.794	0.462	16.292	17.200
231	ENSG00000023330	ALAS1	-1.1	0.0031286	0.014585	39.269	0.974	38.308	40.256	45.300	1.195	44.091	46.480
232	ENSG00000059573	ALDH18A1	-1.1	0.0445512	0.1161725	111.087	2.166	108.636	112.747	119.861	1.303	118.363	120.725
233	ENSG00000184254	ALDH1A3	1.2	0.0063986	0.0256143	6.620	0.438	6.272	7.111	5.638	0.341	5.247	5.869
234	ENSG00000144908	ALDH1L1	1.5	0.0012115	0.0068551	0.760	0.099	0.689	0.873	0.504	0.012	0.490	0.511
235	ENSG00000136010	ALDH1L2	1.8	1.91E-11	1.51E-09	5.967	0.482	5.415	6.304	3.405	0.341	3.049	3.727
236	ENSG00000111275	ALDH2	1.3	2.62E-06	4.298E-05	12.851	0.455	12.425	13.330	10.400	0.339	10.130	10.781
237	ENSG00000072210	ALDH3A2	1.1	0.0001161	0.0010206	37.189	1.253	35.764	38.119	33.323	0.555	32.710	33.789
238	ENSG00000159423	ALDH4A1	-1.2	0.0108614	0.03897	12.503	1.068	11.286	13.287	14.855	0.334	14.567	15.220
239	ENSG00000112294	ALDH5A1	1.3	8.438E-05	0.0007855	7.285	0.624	6.654	7.901	5.657	0.145	5.509	5.800
240	ENSG00000119711	ALDH6A1	-1.1	0.0169231	0.0554368	20.676	2.366	18.036	22.603	23.518	0.289	23.249	23.823
241	ENSG00000164904	ALDH7A1	-1	0.0798176	0.1809592	26.221	0.273	26.017	26.530	28.128	1.069	27.262	29.323
242	ENSG00000143149	ALDH9A1	1.1	0.0251952	0.0753824	76.141	2.323	73.555	78.051	72.441	3.163	69.973	76.007
243	ENSG00000149925	ALDOA	-1.2	2.671E-06	4.352E-05	165.474	2.673	163.818	168.557	204.326	16.062	185.873	215.168

	A	B	C	D	E	F	G	H	I	J	K	L	M
244	ENSG00000033011	ALG1	1.3	0.0001207	0.0010537	11.754	0.221	11.500	11.899	9.598	0.067	9.549	9.674
245	ENSG00000139133	ALG10	-1.2	0.0288205	0.0836952	6.665	0.316	6.375	7.002	7.924	0.810	7.162	8.775
246	ENSG00000175548	ALG10B	-1.1	0.0547555	0.1362484	4.899	0.110	4.776	4.987	5.540	0.055	5.478	5.582
247	ENSG00000172339	ALG14	1.3	0.1100243	0.2284923	0.610	0.152	0.495	0.782	0.490	0.097	0.406	0.596
248	ENSG00000189366	ALG1L	1.9	0.0050132	0.0211867	3.514	0.135	3.358	3.593	1.896	0.586	1.474	2.566
249	ENSG00000119523	ALG2	1.1	0.009732	0.0356504	27.527	1.629	25.738	28.924	24.873	0.427	24.537	25.354
250	ENSG00000214160	ALG3	-1.1	0.0184509	0.0591962	25.870	0.650	25.190	26.486	29.446	2.407	27.527	32.147
251	ENSG00000189292	ALKAL2	1.9	0.000164	0.00136	3.468	0.731	2.720	4.181	1.855	0.545	1.356	2.437
252	ENSG00000100601	ALKBH1	-1.1	0.0740237	0.1708232	11.787	0.357	11.577	12.200	13.435	0.947	12.669	14.494
253	ENSG00000166199	ALKBH3	1.3	0.0013245	0.0073325	11.782	0.085	11.702	11.871	9.446	0.385	9.217	9.890
254	ENSG00000091542	ALKBH5	-1.1	0.0021358	0.0106683	42.970	1.679	41.054	44.182	49.655	3.958	46.444	54.078
255	ENSG00000239382	ALKBH6	1.2	0.0442518	0.1156771	2.978	0.182	2.776	3.130	2.455	0.306	2.138	2.749
256	ENSG00000137760	ALKBH8	1.1	0.1041272	0.2195617	9.191	0.631	8.464	9.601	8.547	0.442	8.037	8.816
257	ENSG00000215067	ALOX12-AS1	1.4	0.0604351	0.1465221	1.749	0.116	1.667	1.882	1.318	0.388	0.972	1.738
258	ENSG00000262943	ALOX12P2	1.2	0.0554867	0.1375214	3.502	0.274	3.185	3.662	3.043	0.251	2.793	3.295
259	ENSG00000161905	ALOX15	-1.6	0.0987513	0.2114422	0.304	0.173	0.131	0.477	0.501	0.079	0.433	0.588
260	ENSG00000198796	ALPK2	3.2	0.0013405	0.007406	0.178	0.080	0.111	0.266	0.057	0.028	0.033	0.088
261	ENSG00000136383	ALPK3	1.3	1.288E-07	3.403E-06	13.426	0.766	12.681	14.211	10.658	0.392	10.205	10.894
262	ENSG00000163286	ALPPL2	-2.3	0.0002015	0.0016057	0.801	0.357	0.593	1.214	1.855	0.442	1.406	2.290
263	ENSG00000178038	ALS2CL	-1.9	1.928E-07	4.823E-06	2.160	0.329	1.794	2.435	4.141	0.648	3.721	4.887
264	ENSG00000183684	ALYREF	1.1	0.0367544	0.1004405	98.679	7.885	92.395	107.527	92.841	3.502	90.082	96.781
265	ENSG00000242110	AMACR	-1.3	0.0182945	0.05888	1.979	0.197	1.817	2.199	2.598	0.286	2.328	2.898
266	ENSG00000110497	AMBRA1	-1.2	3.236E-05	0.0003556	9.710	0.117	9.611	9.839	12.159	0.673	11.476	12.821
267	ENSG00000162066	AMDHD2	1.1	0.0618731	0.1490047	12.089	0.698	11.336	12.715	11.081	1.343	9.785	12.466
268	ENSG00000184675	AMER1	-1.3	6.492E-07	1.337E-05	5.667	0.529	5.057	5.998	7.818	0.256	7.523	7.984
269	ENSG00000181754	AMIGO1	-1.1	0.1018259	0.21594	3.859	0.373	3.446	4.171	4.499	0.264	4.317	4.802
270	ENSG00000139211	AMIGO2	1.6	0.0002661	0.0020127	2.833	0.134	2.749	2.988	1.846	0.349	1.519	2.214
271	ENSG00000101935	AMMECR1	-1.2	0.0004172	0.0028862	26.920	0.983	26.271	28.052	31.717	1.128	30.963	33.014
272	ENSG00000126016	AMOT	-1.1	0.064143	0.1532916	13.694	0.540	13.077	14.075	15.077	0.735	14.485	15.900
273	ENSG00000166025	AMOTL1	1.2	1.407E-05	0.0001777	19.173	0.407	18.891	19.640	16.678	0.552	16.203	17.284
274	ENSG00000114019	AMOTL2	1.3	3.233E-08	1.022E-06	34.786	0.832	33.901	35.552	27.751	2.176	25.252	29.220
275	ENSG00000116337	AMPD2	-1.3	9.548E-06	0.0001285	9.138	0.708	8.683	9.954	11.902	0.434	11.403	12.195
277	ENSG00000078053	AMPH	-1.3	0.000815	0.0049439	4.723	0.336	4.378	5.049	6.164	0.259	5.924	6.438
278	ENSG00000214174	AMZ2P1	1.3	0.0002499	0.0019087	15.522	1.258	14.590	16.954	12.487	0.567	11.855	12.952
279	ENSG00000153107	ANAPC1	1.1	0.0009251	0.0054801	35.086	0.237	34.837	35.309	32.738	0.239	32.556	33.008
280	ENSG00000141552	ANAPC11	-1.1	0.0047839	0.0204526	33.755	1.373	32.175	34.647	38.664	2.292	36.868	41.246
281	ENSG00000129055	ANAPC13	1.1	0.0206395	0.0646556	42.136	1.249	41.397	43.578	38.827	2.506	35.934	40.325
282	ENSG00000176248	ANAPC2	-1.2	0.000566	0.0037017	11.556	0.633	11.168	12.287	14.190	0.709	13.372	14.615
283	ENSG00000053900	ANAPC4	1.1	0.0045328	0.019607	17.398	0.679	16.819	18.145	15.761	0.377	15.465	16.185
284	ENSG00000089053	ANAPC5	-1.1	0.0005119	0.0034235	23.476	0.724	22.643	23.951	26.801	0.600	26.127	27.276
285	ENSG00000196510	ANAPC7	1.1	0.0073445	0.0285552	27.362	0.296	27.020	27.546	25.494	0.107	25.403	25.612

	A	B	C	D	E	F	G	H	I	J	K	L	M
286	ENSG00000013523	ANGEL1	-1.1	0.0386878	0.1041921	20.023	1.172	18.761	21.076	22.167	0.556	21.543	22.611
287	ENSG000000174606	ANGEL2	1.2	0.0004343	0.0029832	14.412	0.236	14.170	14.640	12.579	0.738	11.758	13.189
288	ENSG000000101280	ANGPT4	-1.5	0.0875609	0.1940406	0.423	0.151	0.253	0.542	0.634	0.205	0.468	0.864
289	ENSG000000136859	ANGPTL2	1.1	0.0521	0.1310952	8.226	0.220	8.045	8.472	7.298	1.133	6.179	8.445
290	ENSG000000167772	ANGPTL4	-1.5	0.0161977	0.0536629	1.173	0.340	0.780	1.369	1.860	0.104	1.748	1.953
291	ENSG00000029534	ANK1	-1.1	0.0958503	0.2070919	9.921	0.963	9.043	10.951	11.016	1.189	9.765	12.131
292	ENSG000000145362	ANK2	1.4	2.024E-09	9.226E-08	8.173	0.133	8.028	8.288	6.126	0.153	5.962	6.263
293	ENSG000000132623	ANKEF1	-1.1	0.0811083	0.1832711	8.073	0.535	7.609	8.658	9.086	0.147	8.926	9.214
294	ENSG000000185722	ANKFY1	-1.1	0.0117273	0.0414601	16.179	0.114	16.049	16.260	17.997	0.582	17.334	18.420
295	ENSG000000254996	ANKHD1- EIF4EBP3	1.8	0.0133463	0.0460007	0.273	0.065	0.207	0.337	0.153	0.046	0.103	0.192
296	ENSG000000164331	ANKRA2	-1.2	0.0018607	0.0095983	31.005	1.568	29.304	32.393	36.761	2.411	35.232	39.541
297	ENSG000000148677	ANKRD1	10.7	0.0005209	0.0034647	1.494	1.051	0.527	2.613	0.137	0.128	0.000	0.253
298	ENSG000000229152	ANKRD10- IT1	1.2	0.0001343	0.0011503	88.216	2.793	85.294	90.860	73.879	2.461	71.050	75.516
299	ENSG000000167522	ANKRD11	1.2	3.149E-06	4.985E-05	29.808	0.795	29.005	30.594	25.585	0.886	25.063	26.608
300	ENSG000000101745	ANKRD12	-1.2	0.0087776	0.0328079	11.827	0.487	11.516	12.388	14.025	1.145	12.790	15.051
301	ENSG000000076513	ANKRD13A	1.3	3.599E-05	0.0003885	9.302	0.503	8.757	9.749	7.472	0.089	7.416	7.575
302	ENSG000000198720	ANKRD13B	-1.2	0.0011262	0.0064679	11.841	1.374	10.782	13.394	14.756	1.137	14.079	16.069
303	ENSG000000172932	ANKRD13D	-1.3	0.000182	0.0014803	5.054	0.418	4.693	5.512	6.629	0.439	6.125	6.934
304	ENSG000000230453	ANKRD18B	1.1	0.0674937	0.1593891	6.062	0.966	4.966	6.792	5.422	0.387	4.980	5.701
306	ENSG000000159712	ANKRD18C P	1.1	0.0184744	0.0592279	32.769	0.917	31.795	33.616	29.962	2.506	27.737	32.677
307	ENSG000000187984	ANKRD19P	-1.7	0.007314	0.0284645	0.954	0.348	0.556	1.202	1.647	0.356	1.274	1.982
308	ENSG000000089847	ANKRD24	-1.5	1.205E-05	0.0001562	5.318	0.714	4.895	6.142	8.061	1.053	6.873	8.879
309	ENSG000000154065	ANKRD29	-1.4	0.0040503	0.0179372	1.491	0.324	1.156	1.802	2.123	0.161	1.982	2.298
310	ENSG000000164236	ANKRD33B	1.8	1.69E-16	4.75E-14	12.218	0.298	11.924	12.519	6.862	0.415	6.516	7.322
311	ENSG000000189127	ANKRD34B	1.2	0.0095346	0.0350485	7.240	0.457	6.755	7.664	5.970	1.151	5.286	7.299
312	ENSG000000186352	ANKRD37	-1.7	0.0170938	0.0558015	0.593	0.199	0.404	0.801	1.047	0.127	0.906	1.152

	A	B	C	D	E	F	G	H	I	J	K	L	M
313	ENSG00000154945	ANKRD40	-1.1	0.0506658	0.1283062	39.762	2.419	37.330	42.168	43.549	1.821	41.679	45.317
314	ENSG00000151458	ANKRD50	-1.1	0.0238584	0.072353	22.160	0.222	21.958	22.397	24.454	0.339	24.088	24.756
315	ENSG00000139645	ANKRD52	-1.1	0.0735849	0.1701589	23.729	0.719	23.168	24.540	25.769	1.299	24.314	26.811
316	ENSG00000100124	ANKRD54	1.1	0.0394928	0.105888	6.866	0.015	6.849	6.877	6.103	0.228	5.839	6.239
317	ENSG00000135299	ANKRD6	-1.2	0.0089704	0.0333444	4.718	0.296	4.488	5.052	5.625	0.361	5.295	6.011
318	ENSG00000106013	ANKRD7	1.4	0.0307295	0.0878809	1.753	0.300	1.407	1.942	1.257	0.030	1.225	1.285
319	ENSG00000156381	ANKRD9	-1.1	0.0992929	0.2123061	12.462	0.131	12.319	12.575	14.481	2.604	12.247	17.342
320	ENSG00000064999	ANKS1A	-1.1	0.0526128	0.1321415	25.167	1.091	23.965	26.095	27.551	1.563	25.918	29.032
321	ENSG00000163516	ANKZF1	-1.1	0.0615959	0.1485063	21.424	0.395	21.006	21.791	23.351	0.398	22.937	23.730
322	ENSG00000131620	ANO1	-1.5	0.000235	0.0018179	1.755	0.319	1.423	2.060	2.665	0.077	2.579	2.727
323	ENSG00000171714	ANO5	-1.1	0.0950688	0.2059927	7.171	0.447	6.895	7.687	8.029	0.426	7.540	8.320
324	ENSG00000146205	ANO7	-1.2	0.0737448	0.170412	1.197	0.093	1.090	1.256	1.511	0.049	1.473	1.565
325	ENSG00000074855	ANO8	-1.3	0.0001118	0.0009877	8.509	0.385	8.219	8.947	11.028	1.123	9.854	12.094
326	ENSG00000185101	ANO9	-1.2	0.010183	0.0369979	4.262	0.810	3.672	5.186	5.418	0.668	4.705	6.030
327	ENSG00000011201	ANOS1	1.2	1.696E-05	0.0002064	63.349	5.318	58.353	68.940	53.750	1.626	51.875	54.775
328	ENSG00000140350	ANP32A	-1.1	0.0071914	0.0281157	95.690	6.066	89.166	101.160	105.756	1.817	104.194	107.750
329	ENSG00000136938	ANP32B	1.1	0.1053714	0.2212473	168.113	10.902	157.527	179.306	163.384	2.262	162.016	165.994
330	ENSG00000248546	ANP32C	1.5	0.0496819	0.126402	5.909	1.596	4.084	7.044	4.165	1.356	3.068	5.681
331	ENSG00000163297	ANTXR2	1.2	0.0351623	0.0972843	3.013	0.154	2.844	3.145	2.669	0.121	2.598	2.809
332	ENSG00000135046	ANXA1	1.9	0.000589	0.003824	4.141	1.462	2.483	5.244	2.205	0.174	2.009	2.342
333	ENSG00000138772	ANXA3	1.8	1.08E-12	1.183E-10	41.385	4.514	36.992	46.011	23.536	2.423	20.856	25.572
334	ENSG00000196975	ANXA4	1.5	2.385E-08	7.939E-07	5.326	0.406	4.936	5.746	3.647	0.268	3.440	3.950
335	ENSG00000164111	ANXA5	1.4	5.05E-13	5.73E-11	336.984	25.638	313.831	364.537	253.597	3.378	249.702	255.721
336	ENSG00000197043	ANXA6	1.1	0.0544608	0.1356148	59.981	1.344	58.710	61.388	57.725	1.804	56.517	59.799
337	ENSG00000138279	ANXA7	1.2	8.65E-06	0.0001177	94.717	2.926	91.414	96.981	82.785	1.668	80.877	83.968
338	ENSG00000131480	AOC2	-1.2	0.0718363	0.1670747	7.360	0.431	6.890	7.738	8.658	0.471	8.183	9.124
339	ENSG00000213983	AP1G2	-1.2	7.792E-05	0.0007379	13.672	0.315	13.371	14.000	16.630	0.287	16.325	16.894
340	ENSG00000129354	AP1M2	-1.1	0.0614882	0.1482889	120.897	2.301	118.445	123.010	130.804	1.352	129.697	132.310
341	ENSG00000106367	AP1S1	1.1	0.0024526	0.0119715	105.534	5.291	100.872	111.285	95.377	6.051	88.497	99.872
342	ENSG00000182287	AP1S2	1.1	0.0004587	0.0031223	237.787	6.458	231.367	244.283	216.467	6.740	209.868	223.339
343	ENSG00000152056	AP1S3	1.2	0.0122072	0.0428608	6.052	0.355	5.652	6.329	5.154	0.249	4.985	5.440
344	ENSG00000183020	AP2A2	-1.1	0.0044222	0.0192206	11.863	0.335	11.563	12.225	13.563	0.261	13.264	13.745
345	ENSG00000006125	AP2B1	1.1	0.040311	0.1076068	118.762	2.511	115.866	120.322	115.305	2.984	112.754	118.586
346	ENSG00000042753	AP2S1	1.1	0.0646959	0.1542488	103.467	1.113	102.471	104.668	99.083	3.267	95.392	101.604
347	ENSG00000132842	AP3B1	-1.1	0.0106718	0.0384027	33.910	1.862	32.681	36.053	37.757	1.336	36.732	39.268
348	ENSG00000103723	AP3B2	1.3	1.142E-05	0.000149	6.336	0.574	5.781	6.928	4.881	0.406	4.480	5.292
349	ENSG00000065000	AP3D1	-1.1	0.0003011	0.0022173	58.939	1.711	57.526	60.841	67.691	3.458	64.406	71.299
350	ENSG00000070718	AP3M2	1.1	0.0280921	0.0821017	14.138	0.265	13.880	14.409	13.141	0.360	12.923	13.557
351	ENSG00000221838	AP4M1	-1.1	0.1196279	0.2422729	4.308	0.099	4.224	4.417	5.003	0.368	4.637	5.372
352	ENSG00000100478	AP4S1	1.3	0.0002327	0.0018039	3.469	0.138	3.334	3.610	2.652	0.237	2.403	2.877
353	ENSG00000254470	AP5B1	-1.1	0.088776	0.196095	11.790	0.489	11.272	12.245	13.271	1.493	11.653	14.596
354	ENSG00000053770	AP5M1	1.1	0.0336323	0.0941292	13.585	1.333	12.745	15.122	12.743	0.469	12.344	13.259
355	ENSG00000242802	AP5Z1	1.2	0.0116766	0.0413238	4.741	0.410	4.407	5.199	4.072	0.264	3.864	4.369

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356	ENSG00000120868	APAF1	-1.1	0.0664159	0.1575003	17.422	1.202	16.127	18.502	19.292	1.096	18.393	20.513
357	ENSG00000107282	APBA1	1.8	0.0011629	0.0066404	0.577	0.039	0.532	0.602	0.332	0.047	0.289	0.381
358	ENSG00000034053	APBA2	1.2	0.000996	0.005853	10.329	0.248	10.044	10.498	8.927	0.278	8.607	9.089
359	ENSG00000011132	APBA3	-1.2	0.0397292	0.1063532	7.624	0.799	7.020	8.530	9.129	1.698	7.212	10.443
360	ENSG00000134982	APC	1.1	0.0719059	0.1672137	7.826	0.307	7.545	8.154	7.393	0.250	7.241	7.682
361	ENSG00000154856	APCDD1	1.3	0.1006151	0.2140218	1.497	0.448	0.994	1.855	1.215	0.310	1.026	1.573
362	ENSG00000198768	APCDD1L	-1.7	0.0025095	0.0122209	0.739	0.140	0.643	0.899	1.313	0.301	0.974	1.547
363	ENSG00000248329	APELA	2	5.377E-05	0.0005429	195.335	27.954	166.047	221.729	101.724	15.158	90.224	118.900
364	ENSG00000138613	APH1B	1.2	0.0001953	0.0015633	24.741	0.056	24.704	24.805	21.410	1.035	20.411	22.478
365	ENSG00000134817	APLNR	2	0.0019744	0.0100701	1.004	0.138	0.870	1.145	0.511	0.145	0.377	0.665
366	ENSG00000105290	APLP1	-1.1	0.1151496	0.2357493	9.642	0.438	9.329	10.143	10.857	0.830	10.271	11.807
367	ENSG00000084234	APLP2	1.1	0.0028957	0.0136647	201.254	0.757	200.681	202.113	190.887	4.843	185.410	194.601
368	ENSG00000128383	APOBEC3A	1.5	0.0371312	0.1010643	1.626	0.535	1.289	2.243	1.106	0.122	0.983	1.227
369	ENSG00000179750	APOBEC3B	1.4	2.155E-07	5.268E-06	67.486	8.458	59.332	76.219	50.966	0.870	50.352	51.961
370	ENSG00000249310	APOBEC3B-AS1	1.5	0.0013282	0.0073485	16.408	1.946	15.260	18.655	11.226	1.147	9.902	11.894
371	ENSG00000244509	APOBEC3C	-1.1	0.109157	0.2271933	51.094	2.923	49.019	54.438	55.462	2.030	53.446	57.507
372	ENSG00000130208	APOC1	1.3	0.0001399	0.0011862	50.921	1.062	50.047	52.102	41.419	3.718	38.502	45.606
373	ENSG00000130203	APOE	1.4	1.33E-13	1.78E-11	824.314	29.664	799.318	857.094	612.206	40.077	571.085	651.151
374	ENSG00000128335	APOL2	1.2	0.0067922	0.0268091	13.975	0.617	13.349	14.582	12.256	0.233	12.119	12.524
375	ENSG00000142192	APP	1	0.0985814	0.2111316	355.654	15.451	344.414	373.273	349.665	5.480	343.339	352.938
376	ENSG00000136044	APPL2	1.1	0.0545703	0.1358273	19.600	0.372	19.232	19.975	18.494	0.382	18.192	18.923
377	ENSG00000198931	APRT	-1.1	0.0166551	0.0547603	154.969	1.388	153.394	156.009	170.726	6.065	165.205	177.217
378	ENSG00000137074	APTX	1.3	1.838E-06	3.158E-05	32.994	0.346	32.597	33.226	26.875	0.833	26.295	27.830
379	ENSG00000171885	AQP4	-1.3	0.0209229	0.0653982	2.058	0.339	1.740	2.414	2.716	0.357	2.306	2.948
380	ENSG00000021776	AQR	-1.1	0.0048197	0.0205797	31.941	0.846	31.322	32.906	35.487	0.809	34.739	36.345
381	ENSG00000078061	ARAF	-1.1	0.0349817	0.0969435	22.756	3.031	19.338	25.118	26.132	1.208	24.785	27.121
382	ENSG00000186635	ARAP1	-1.1	0.0351763	0.0972914	22.075	0.245	21.881	22.350	24.251	1.241	23.220	25.629
383	ENSG00000047365	ARAP2	2.4	6.835E-09	2.664E-07	2.190	0.559	1.556	2.615	0.930	0.094	0.850	1.034
384	ENSG00000120318	ARAP3	-1.1	0.0026424	0.0127395	23.599	1.040	22.952	24.798	27.304	1.997	25.507	29.454
385	ENSG00000198576	ARC	1.1	0.1008537	0.2144149	10.728	0.660	10.161	11.452	9.693	1.752	7.857	11.347
386	ENSG00000095139	ARCN1	-1.2	9.01E-10	4.469E-08	133.584	1.548	131.809	134.653	169.392	8.272	163.962	178.913
387	ENSG00000143761	ARF1	-1.1	0.0001816	0.001478	169.879	4.904	165.555	175.207	194.453	8.039	185.214	199.847
388	ENSG00000134287	ARF3	1.2	7.465E-06	0.0001038	105.449	4.468	100.299	108.299	93.391	4.066	89.015	97.054
389	ENSG00000168374	ARF4	-1.1	0.0537559	0.1342605	178.100	1.747	176.093	179.280	192.083	2.449	190.240	194.862
390	ENSG00000101199	ARFGAP1	-1.3	3.148E-07	7.278E-06	31.923	2.089	30.205	34.249	41.049	2.932	38.232	44.084
391	ENSG00000132254	ARFIP2	-1.2	0.0001732	0.0014209	15.682	0.724	14.991	16.435	19.170	0.841	18.301	19.981
392	ENSG00000134884	ARGLU1	-1.1	0.0005509	0.0036183	176.122	5.731	171.456	182.520	201.542	9.049	191.218	208.097

	A	B	C	D	E	F	G	H	I	J	K	L	M
393	ENSG00000071205	ARHGAP10	1.3	0.0050444	0.021289	2.124	0.304	1.772	2.307	1.674	0.224	1.458	1.904
394	ENSG00000198826	ARHGAP11 A	-1.1	0.0100364	0.0365515	61.777	1.955	60.246	63.980	68.648	4.041	65.320	73.145
395	ENSG00000187951	ARHGAP11 B	-1.2	0.0014984	0.0080862	6.392	0.399	5.932	6.637	7.711	0.063	7.639	7.759
396	ENSG00000165322	ARHGAP12	1.2	5.246E-07	1.125E-05	38.868	1.406	37.384	40.182	32.209	1.870	30.079	33.581
397	ENSG00000140750	ARHGAP17	-1.1	0.0230799	0.0705112	11.366	0.631	10.686	11.934	12.716	0.453	12.309	13.203
398	ENSG00000146376	ARHGAP18	-1.2	0.0352435	0.0973816	3.893	0.709	3.436	4.709	4.741	0.037	4.719	4.784
399	ENSG00000213390	ARHGAP19	-1.2	5.442E-07	1.164E-05	37.465	1.285	36.486	38.919	46.288	2.266	43.868	48.359
400	ENSG00000107863	ARHGAP21	1.4	2.16E-11	1.679E-09	17.870	0.614	17.164	18.272	13.045	0.560	12.433	13.532
401	ENSG00000275832	ARHGAP23	1.3	4.787E-07	1.044E-05	18.774	0.483	18.216	19.056	15.063	1.671	13.571	16.869
402	ENSG00000145819	ARHGAP26	-1.2	0.0001113	0.000984	5.733	0.409	5.490	6.206	7.076	0.146	6.935	7.227
403	ENSG00000031081	ARHGAP31	-1.3	0.0011867	0.0067475	1.899	0.118	1.762	1.968	2.495	0.057	2.436	2.550
404	ENSG00000134909	ARHGAP32	-1.1	0.0202354	0.0636253	7.057	0.464	6.731	7.588	7.996	0.275	7.785	8.307
405	ENSG00000004777	ARHGAP33	-1.3	0.002715	0.0130268	5.866	0.152	5.750	6.039	7.626	0.779	6.758	8.266
406	ENSG00000160007	ARHGAP35	-1.1	0.0441942	0.1155647	28.116	0.725	27.505	28.917	30.511	1.342	28.984	31.502

	A	B	C	D	E	F	G	H	I	J	K	L	M
407	ENSG00000124143	ARHGAP40	1.6	0.026446	0.0782073	1.915	0.946	1.110	2.958	1.249	0.205	1.021	1.420
408	ENSG00000180448	ARHGAP45	-1.2	0.0009556	0.0056412	10.280	0.608	9.577	10.634	12.694	1.625	11.228	14.441
409	ENSG00000100852	ARHGAP5	-1.1	0.0031057	0.014507	30.806	0.883	29.864	31.616	34.795	2.233	33.191	37.346
410	ENSG00000241484	ARHGAP8	-1.4	0.0040213	0.0178416	1.791	0.335	1.420	2.073	2.505	0.072	2.441	2.583
411	ENSG00000123329	ARHGAP9	1.4	0.0230894	0.0705186	1.676	0.254	1.411	1.918	1.264	0.041	1.220	1.302
412	ENSG00000141522	ARHGDI A	1.1	0.001553	0.0083253	74.567	4.094	70.669	78.832	67.531	1.887	65.533	69.283
413	ENSG00000111348	ARHGDI B	2.8	0.0013619	0.0074881	0.917	0.313	0.703	1.276	0.328	0.110	0.223	0.443
414	ENSG00000076928	ARHGEF1	-1.1	0.0559577	0.1383353	12.680	0.284	12.352	12.857	14.068	0.273	13.798	14.343
415	ENSG00000104728	ARHGEF10	-1.4	5.184E-06	7.657E-05	2.576	0.075	2.492	2.637	3.798	0.497	3.420	4.361
416	ENSG00000074964	ARHGEF10 L	-1.1	0.0045968	0.0198127	10.648	0.427	10.235	11.087	12.469	1.206	11.166	13.545
417	ENSG00000132694	ARHGEF11	-1.1	0.048868	0.1249062	19.118	1.543	17.338	20.073	21.021	0.825	20.138	21.774
418	ENSG00000196914	ARHGEF12	1.1	0.0019019	0.0097862	12.247	0.267	11.953	12.475	11.393	0.184	11.194	11.557
419	ENSG00000110237	ARHGEF17	-1.1	0.0585446	0.1429221	7.248	0.628	6.702	7.934	8.221	0.696	7.733	9.018
420	ENSG00000142632	ARHGEF19	-1.3	4.715E-08	1.424E-06	29.561	0.905	28.780	30.553	39.920	3.726	37.299	44.184
421	ENSG00000240771	ARHGEF25	1.3	7.36E-05	0.0007048	10.795	0.510	10.250	11.261	8.290	0.271	8.099	8.601
422	ENSG00000114790	ARHGEF26	1.2	0.0006988	0.0043677	14.294	1.240	12.938	15.369	12.186	0.312	11.827	12.392
423	ENSG00000183111	ARHGEF37	2	0.0007491	0.0046123	0.779	0.124	0.672	0.915	0.387	0.066	0.313	0.441
424	ENSG00000137135	ARHGEF39	-1.1	0.0250262	0.075046	13.869	0.561	13.233	14.296	15.618	0.314	15.300	15.928
425	ENSG00000165801	ARHGEF40	1.1	0.0006196	0.0039847	28.228	0.709	27.675	29.028	25.567	1.656	24.312	27.445
426	ENSG00000129675	ARHGEF6	1.1	0.0272672	0.0801058	7.292	0.484	6.981	7.850	6.585	0.165	6.407	6.733
427	ENSG00000102606	ARHGEF7	-1.1	0.0331187	0.0931092	14.587	0.388	14.192	14.968	16.028	0.664	15.576	16.791
428	ENSG00000131089	ARHGEF9	1.2	0.0005779	0.0037665	10.223	0.636	9.488	10.602	9.018	0.365	8.653	9.383
429	ENSG00000049618	ARID1B	-1.1	0.0002471	0.0018931	4.348	0.104	4.269	4.467	5.047	0.186	4.837	5.190
430	ENSG00000189079	ARID2	-1.2	2.163E-06	3.626E-05	23.455	0.448	23.120	23.963	28.173	0.725	27.547	28.967
431	ENSG00000116017	ARID3A	-1.1	0.0028297	0.013436	31.482	1.404	29.880	32.499	35.779	2.146	33.422	37.621
432	ENSG00000179361	ARID3B	1.1	0.0038292	0.0171375	69.674	1.372	68.439	71.151	65.430	1.895	64.033	67.587
433	ENSG00000054267	ARID4B	-1.1	0.0504538	0.1278964	13.448	0.060	13.400	13.516	14.798	0.166	14.614	14.936

	A	B	C	D	E	F	G	H	I	J	K	L	M
434	ENSG00000150347	ARID5B	2.5	0.0001652	0.0013666	0.417	0.046	0.365	0.452	0.168	0.054	0.123	0.228
435	ENSG00000120805	ARL1	1.1	0.0570203	0.1401722	53.479	0.517	52.906	53.910	51.361	1.713	49.411	52.619
436	ENSG00000175414	ARL10	1.1	0.0904106	0.1989738	7.946	0.205	7.710	8.087	7.550	0.411	7.224	8.012
437	ENSG00000169379	ARL13B	1.2	0.1244177	0.2495288	7.141	1.273	6.260	8.601	6.354	0.417	6.056	6.830
438	ENSG00000185829	ARL17A	-1.2	0.0070071	0.0275221	8.164	0.325	7.866	8.510	9.885	0.877	8.907	10.601
440	ENSG00000102931	ARL2BP	1.3	2.716E-05	0.0003068	30.889	1.987	28.725	32.632	24.584	1.588	23.637	26.417
441	ENSG00000138175	ARL3	-1.1	0.0008671	0.0052059	30.632	1.000	29.999	31.785	35.916	1.027	34.732	36.562
442	ENSG00000122644	ARL4A	1.1	0.0580936	0.1421906	16.592	1.543	15.264	18.285	15.295	0.591	14.733	15.911
443	ENSG00000188042	ARL4C	1.1	0.0473757	0.1218469	18.015	2.799	14.901	20.322	16.346	1.238	15.553	17.772
444	ENSG00000170540	ARL6IP1	-1.1	0.0006399	0.0040858	166.816	8.595	158.373	175.555	188.985	3.328	185.165	191.254
445	ENSG00000144746	ARL6IP5	1.1	0.0608918	0.1473127	55.175	1.903	53.894	57.361	52.460	2.357	49.894	54.527
446	ENSG00000177917	ARL6IP6	-1.2	0.0003567	0.0025405	34.142	0.792	33.231	34.674	40.994	4.289	36.773	45.347
447	ENSG00000105676	ARMC6	1.1	0.0899086	0.1980236	28.606	1.465	27.098	30.024	27.353	1.222	26.359	28.717
448	ENSG00000135931	ARMC9	1.1	0.0398611	0.1066726	7.417	0.449	6.954	7.849	6.810	0.402	6.461	7.250
449	ENSG00000198960	ARMCX6	1.1	0.0371584	0.1011198	16.822	0.537	16.204	17.179	15.268	0.368	15.041	15.692
450	ENSG00000146476	ARMT1	1.2	3.621E-06	5.629E-05	76.262	4.278	71.559	79.924	65.137	1.240	63.969	66.439
451	ENSG00000143437	ARNT	-1.1	0.0010161	0.0059542	19.300	0.202	19.079	19.476	22.451	1.102	21.689	23.714
452	ENSG00000172379	ARNT2	1.3	0.0003108	0.0022723	3.961	0.047	3.912	4.005	3.122	0.090	3.031	3.210
453	ENSG00000029153	ARNTL2	1.2	0.0066555	0.0264421	8.747	0.994	7.638	9.557	7.661	0.568	7.005	7.996
454	ENSG00000163466	ARPC2	1	0.1004195	0.213823	74.028	2.193	72.316	76.500	72.409	1.944	70.191	73.816
455	ENSG00000226284	ARPC3P1	1.2	0.0667144	0.1580087	23.496	4.466	20.326	28.603	19.735	0.948	18.730	20.612
456	ENSG00000241553	ARPC4	1.1	0.0383471	0.1034722	37.896	1.199	36.707	39.104	35.851	1.331	34.852	37.361
457	ENSG00000162704	ARPC5	1.2	8.304E-09	3.161E-07	31.586	0.245	31.415	31.866	25.940	0.773	25.048	26.422
458	ENSG00000136950	ARPC5L	1.1	0.0704932	0.1646755	26.926	1.680	25.670	28.834	25.492	0.448	25.056	25.951
459	ENSG00000242498	ARPIN	1.3	0.0001006	0.000908	9.448	0.960	8.676	10.523	7.682	0.548	7.127	8.222
460	ENSG00000128989	ARPP19	-1.1	0.0047029	0.0201816	135.714	3.006	132.902	138.883	150.187	6.285	143.355	155.724
461	ENSG00000137486	ARRB1	1.6	1.837E-05	0.0002212	15.750	3.339	13.472	19.583	9.941	0.484	9.593	10.493
462	ENSG00000203993	ARRDC1-AS1	-1.2	0.0018441	0.009541	19.322	0.727	18.865	20.160	23.751	2.347	21.044	25.226
463	ENSG00000281357	ARRDC3-AS1	1.3	0.0349423	0.0968502	2.545	0.262	2.294	2.817	1.948	0.167	1.827	2.139
464	ENSG00000100299	ARSA	-1.2	0.113725	0.2335939	5.591	0.153	5.438	5.744	6.606	0.636	5.879	7.058
465	ENSG00000113273	ARSB	1.2	0.0020334	0.0102938	7.966	0.409	7.626	8.420	6.720	0.497	6.221	7.215
466	ENSG00000006756	ARSD	1.2	0.0155895	0.0520121	6.228	0.632	5.566	6.824	5.374	0.599	4.716	5.887
467	ENSG00000141337	ARSG	1.2	0.0893558	0.1970115	1.657	0.203	1.435	1.832	1.412	0.192	1.226	1.609
468	ENSG00000183876	ARSI	-1.4	0.0111641	0.0398099	2.660	0.764	1.943	3.464	3.728	0.558	3.369	4.371
469	ENSG00000164291	ARSK	-1.2	0.0032049	0.0148545	7.485	0.581	6.884	8.043	9.288	0.651	8.640	9.942
470	ENSG00000173409	ARV1	1.1	0.0717444	0.1669423	18.489	0.660	17.759	19.045	16.837	1.233	15.454	17.820
471	ENSG00000099889	ARVCF	-1.2	4.225E-05	0.0004455	19.428	1.230	18.530	20.829	24.624	2.678	22.490	27.629
472	ENSG00000104763	ASAH1	1.2	3.161E-06	4.987E-05	20.125	0.676	19.347	20.565	17.000	1.413	15.754	18.536
473	ENSG00000204147	ASAH2B	1.1	0.1123874	0.2318138	7.799	0.135	7.663	7.932	7.203	0.718	6.451	7.882
474	ENSG00000153317	ASAP1	1.2	0.0006744	0.0042518	16.769	0.911	15.781	17.575	14.904	0.548	14.469	15.520
475	ENSG00000151693	ASAP2	-1.2	5.241E-05	0.0005317	11.855	0.645	11.292	12.559	14.775	0.027	14.759	14.806

	A	B	C	D	E	F	G	H	I	J	K	L	M
476	ENSG00000088280	ASAP3	-1.1	0.0151195	0.0507474	26.107	1.818	24.094	27.629	29.396	1.404	28.301	30.979
477	ENSG00000065802	ASB1	-1.1	0.0169685	0.0555427	17.870	0.348	17.554	18.243	20.051	1.412	18.569	21.381
478	ENSG00000115239	ASB3	-1.3	0.0740936	0.1709379	0.921	0.156	0.757	1.067	1.233	0.386	0.937	1.669
479	ENSG00000138303	ASCC1	-1.1	0.1099465	0.2283885	16.094	0.577	15.709	16.757	17.593	0.721	16.760	18.015
480	ENSG00000112249	ASCC3	1	0.0927667	0.2024992	67.752	3.442	64.542	71.387	66.031	2.868	62.723	67.830
481	ENSG00000111875	ASF1A	1.1	0.0013493	0.0074337	49.707	0.167	49.567	49.892	44.330	0.451	43.893	44.794
483	ENSG00000141505	ASGR1	-1.2	0.0273754	0.0803819	5.179	0.668	4.451	5.764	6.312	0.207	6.091	6.501
484	ENSG00000116539	ASH1L	-1.1	0.035014	0.0969852	14.323	0.511	13.754	14.745	15.754	0.326	15.535	16.129
485	ENSG00000108684	ASIC2	-1.4	0.1126947	0.2322415	0.336	0.121	0.211	0.453	0.489	0.175	0.298	0.643
486	ENSG00000169093	ASMTL	-1.2	9.524E-06	0.0001282	56.936	5.324	51.082	61.489	70.503	4.928	67.545	76.192
487	ENSG00000236017	ASMTL- AS1	-1.4	0.0100432	0.0365686	3.881	0.710	3.125	4.534	5.744	0.552	5.351	6.375
488	ENSG00000070669	ASNS	1.5	1.61E-16	4.62E-14	164.006	4.802	158.830	168.317	110.604	8.188	101.773	117.945
489	ENSG00000166183	ASPG	-1.3	0.0868469	0.1929826	0.910	0.384	0.511	1.278	1.218	0.154	1.090	1.390
490	ENSG00000174939	ASPHD1	-1.1	0.074268	0.1712001	12.879	1.082	11.630	13.538	14.916	1.926	12.993	16.844
491	ENSG00000066279	ASPM	-1.3	0.0285022	0.0829847	43.022	7.536	38.084	51.697	55.080	5.667	49.698	60.994
492	ENSG00000244617	ASPRV1	-2.1	0.0058483	0.0239149	0.567	0.139	0.411	0.679	1.225	0.523	0.642	1.652
493	ENSG00000130707	ASS1	1.1	0.0122212	0.042901	73.420	5.734	68.948	79.885	68.543	1.132	67.357	69.610
494	ENSG00000188886	ASTL	-1.5	0.0582882	0.1425432	1.314	0.365	0.893	1.531	2.020	0.290	1.797	2.347
495	ENSG00000156802	ATAD2	-1.1	0.0015808	0.0084474	24.759	1.698	22.817	25.965	28.555	1.325	27.032	29.443
496	ENSG00000215915	ATAD3C	1.5	0.0003577	0.0025454	3.463	0.490	2.901	3.796	2.347	0.151	2.228	2.517
497	ENSG00000176208	ATAD5	-1.2	8.554E-05	0.0007949	24.921	0.261	24.620	25.080	30.236	1.887	28.404	32.174
498	ENSG00000162772	ATF3	1.4	1.228E-08	4.43E-07	20.915	1.865	18.894	22.569	15.170	0.168	14.995	15.330
500	ENSG00000128272	ATF4	1.3	9.00E-11	5.879E-09	329.018	10.188	319.721	339.908	268.117	7.512	261.627	276.345
501	ENSG00000228218	ATF4P3	1.3	0.0126212	0.0439404	10.016	1.954	8.254	12.118	7.586	0.563	6.936	7.929
502	ENSG00000256167	ATF4P4	1.4	0.0067085	0.0266027	4.379	0.313	4.115	4.726	3.187	0.601	2.660	3.841
503	ENSG00000169136	ATF5	2.5	6.74E-16	1.54E-13	17.486	1.562	15.694	18.560	7.273	0.380	6.836	7.518
504	ENSG00000213676	ATF6B	1.1	0.083752	0.1880389	29.692	0.474	29.206	30.153	28.106	0.853	27.176	28.853
505	ENSG00000171681	ATF7IP	-1.2	5.688E-08	1.667E-06	53.615	0.179	53.409	53.725	64.852	1.489	63.161	65.963
506	ENSG00000145782	ATG12	-1.1	0.0750423	0.1725406	21.121	0.277	20.898	21.431	23.136	1.831	21.963	25.245
507	ENSG00000085978	ATG16L1	-1.1	0.0228123	0.0698831	20.681	0.444	20.401	21.193	23.042	0.348	22.760	23.431
508	ENSG00000168010	ATG16L2	-1.3	0.0006877	0.0043124	4.359	0.497	3.925	4.900	5.602	0.097	5.539	5.713
509	ENSG00000110046	ATG2A	-1.2	0.001999	0.0101744	8.253	0.334	7.870	8.485	10.078	0.910	9.215	11.029
510	ENSG00000066739	ATG2B	1.1	0.0276335	0.0809291	10.072	0.472	9.791	10.617	9.406	0.511	9.080	9.994
511	ENSG00000144848	ATG3	1.1	0.1142146	0.2342604	17.766	0.373	17.431	18.169	17.069	0.796	16.214	17.787
512	ENSG00000101844	ATG4A	1.4	0.0002037	0.0016182	6.241	0.604	5.653	6.860	4.425	0.286	4.245	4.756
513	ENSG00000168397	ATG4B	-1.1	0.0510191	0.1289622	26.041	0.131	25.890	26.125	28.515	1.926	26.700	30.535
514	ENSG00000130734	ATG4D	-1.2	0.0048775	0.0207634	18.205	0.412	17.789	18.613	22.346	2.889	20.111	25.609
515	ENSG00000119787	ATL2	-1.1	0.0005045	0.0033833	59.934	2.664	56.952	62.078	68.960	3.327	65.280	71.757
516	ENSG00000166454	ATMIN	1.1	0.0039607	0.0176376	31.177	0.476	30.899	31.727	28.810	1.055	27.698	29.798
517	ENSG00000111676	ATN1	-1.2	0.000259	0.0019663	37.247	2.346	34.539	38.657	44.213	2.393	41.483	45.948
518	ENSG00000118322	ATP10B	-1.7	0.0944868	0.2052556	0.074	0.030	0.039	0.092	0.127	0.022	0.110	0.152
519	ENSG00000145246	ATP10D	1.2	0.0183288	0.0589343	2.182	0.182	2.059	2.391	1.793	0.225	1.657	2.053

	A	B	C	D	E	F	G	H	I	J	K	L	M
520	ENSG00000068650	ATP11A	-1.6	4.71E-17	1.53E-14	15.884	0.428	15.406	16.234	25.608	1.114	24.572	26.786
521	ENSG000000101974	ATP11C	1	0.1126441	0.2321654	50.530	0.896	49.541	51.288	49.300	1.408	47.743	50.486
522	ENSG000000105726	ATP13A1	-1.2	2.349E-05	0.0002726	9.497	0.363	9.172	9.890	11.963	0.945	11.013	12.903
523	ENSG000000163399	ATP1A1	-1.1	0.0052221	0.0218183	145.122	1.915	142.912	146.234	159.049	2.519	156.176	160.879
524	ENSG00000018625	ATP1A2	-1.3	3.282E-10	1.857E-08	40.380	1.126	39.080	41.052	53.353	1.546	51.645	54.658
525	ENSG000000105409	ATP1A3	-1.3	6.098E-05	0.0006032	9.451	0.812	8.657	10.281	12.472	1.427	10.824	13.322
526	ENSG000000143153	ATP1B1	1.2	5.868E-06	8.505E-05	53.620	2.022	52.160	55.928	45.071	3.004	42.717	48.455
527	ENSG000000129244	ATP1B2	-1.5	7.333E-08	2.067E-06	13.687	2.323	11.087	15.559	21.512	1.214	20.526	22.868
528	ENSG000000166896	ATP23	1.2	0.0368164	0.1004964	16.720	0.639	16.168	17.421	14.434	0.371	14.011	14.704
529	ENSG000000196296	ATP2A1	-1.5	0.0034401	0.0157294	1.604	0.198	1.385	1.770	2.428	0.604	1.783	2.979
530	ENSG000000174437	ATP2A2	1.2	9.228E-07	1.788E-05	80.889	1.675	78.964	82.013	71.813	1.833	69.705	73.028
531	ENSG00000058668	ATP2B4	-1.1	0.0154818	0.0517069	17.136	1.594	15.370	18.468	19.377	1.482	17.666	20.241
532	ENSG00000017260	ATP2C1	1.1	0.0064278	0.0257127	44.499	0.875	43.527	45.224	42.069	1.514	40.524	43.549
533	ENSG000000152234	ATP5A1	-1.1	0.0007681	0.0047069	170.861	1.479	169.855	172.559	190.823	6.003	183.941	194.986
534	ENSG000000110955	ATP5B	-1.1	0.0001153	0.0010154	824.520	6.462	817.069	828.602	929.952	21.091	909.541	951.663
535	ENSG00000099624	ATP5D	-1.1	0.0381561	0.103105	35.218	1.103	34.473	36.485	40.910	7.109	34.994	48.796
536	ENSG000000124172	ATP5E	-1.1	0.0002377	0.0018354	52.222	0.680	51.677	52.985	60.111	1.217	59.405	61.516
537	ENSG000000159199	ATP5G1	-1.1	0.0079957	0.0305816	51.822	1.482	50.198	53.099	58.656	0.829	57.820	59.477
538	ENSG000000135390	ATP5G2	-1.1	7.218E-05	0.0006929	119.875	3.946	115.552	123.283	139.598	8.045	130.821	146.622
539	ENSG000000167863	ATP5H	1.1	0.0006173	0.0039727	119.153	4.280	114.223	121.918	109.422	3.624	105.835	113.082
540	ENSG000000169020	ATP5I	-1.1	0.0026395	0.0127293	258.693	8.013	249.586	264.661	294.131	15.685	276.028	303.660
541	ENSG000000241468	ATP5J2	-1.1	0.0286664	0.0833193	65.538	2.336	63.949	68.220	72.782	4.054	68.515	76.584
542	ENSG000000125375	ATP5S	1.1	0.0578772	0.1418393	5.899	0.320	5.552	6.182	5.469	0.174	5.289	5.635
543	ENSG00000071553	ATP6AP1	1.1	0.0030058	0.0141173	23.757	0.147	23.595	23.882	21.501	0.391	21.177	21.936
544	ENSG000000205464	ATP6AP1L	-1.4	0.0014886	0.0080362	1.883	0.178	1.686	2.032	2.636	0.360	2.220	2.857
545	ENSG00000033627	ATP6V0A1	1.2	0.0001904	0.0015335	12.694	1.738	10.715	13.972	10.666	0.477	10.264	11.193
546	ENSG000000185344	ATP6V0A2	1.2	9.031E-06	0.0001222	10.712	0.269	10.407	10.912	8.978	0.720	8.217	9.649
547	ENSG000000105929	ATP6V0A4	-1.5	0.0493088	0.125729	0.550	0.095	0.443	0.623	0.828	0.119	0.737	0.962
548	ENSG000000159720	ATP6V0D1	1.4	3.389E-07	7.745E-06	11.284	0.489	10.831	11.802	8.504	0.122	8.413	8.642
549	ENSG000000113732	ATP6V0E1	1.4	1.468E-10	9.229E-09	78.998	2.182	76.833	81.198	56.801	3.083	54.924	60.359
550	ENSG000000171130	ATP6V0E2	1.2	0.0141893	0.048306	9.194	0.432	8.721	9.569	7.928	0.173	7.756	8.103
551	ENSG000000155097	ATP6V1C1	1.2	3.882E-05	0.0004145	38.767	3.364	36.285	42.595	33.529	1.767	32.222	35.539
552	ENSG000000100554	ATP6V1D	1.3	2.397E-08	7.95E-07	36.687	0.971	35.678	37.614	29.454	0.072	29.372	29.506
553	ENSG000000131100	ATP6V1E1	1.1	0.0050021	0.0211556	79.979	2.108	77.623	81.689	74.771	1.519	73.052	75.933
554	ENSG000000250565	ATP6V1E2	1.2	0.0714673	0.1663996	2.972	0.169	2.795	3.130	2.566	0.112	2.440	2.654
555	ENSG000000136888	ATP6V1G1	1.2	3.154E-07	7.278E-06	228.270	14.368	218.157	244.717	188.806	6.473	181.447	193.614
556	ENSG00000047249	ATP6V1H	1.4	1.531E-09	7.175E-08	22.127	0.559	21.494	22.553	16.237	1.053	15.607	17.453
557	ENSG000000165240	ATP7A	1.1	0.1119192	0.2312327	2.061	0.188	1.904	2.269	1.843	0.221	1.675	2.094

	A	B	C	D	E	F	G	H	I	J	K	L	M
558	ENSG00000123191	ATP7B	-1.2	0.0018423	0.0095376	3.962	0.191	3.758	4.137	4.882	0.055	4.849	4.946
559	ENSG00000132932	ATP8A2	1.7	5.95E-11	4.088E-09	6.777	0.654	6.022	7.187	4.104	0.435	3.608	4.423
560	ENSG00000130270	ATP8B3	1.1	0.0763443	0.1747715	6.209	0.308	5.856	6.415	5.709	0.141	5.597	5.867
561	ENSG00000054793	ATP9A	1.3	0.0043877	0.0191032	6.324	0.761	5.450	6.843	4.915	0.879	3.953	5.676
562	ENSG00000166377	ATP9B	1.2	0.0022828	0.0112695	3.127	0.152	2.972	3.277	2.662	0.107	2.566	2.777
563	ENSG00000123472	ATPAF1	1.2	0.0001699	0.0013969	37.274	1.242	36.411	38.698	33.026	1.271	32.072	34.468
564	ENSG00000171953	ATPAF2	1.4	9.953E-06	0.0001331	6.114	0.205	5.891	6.293	4.467	0.461	4.019	4.940
565	ENSG00000175054	ATR	1.1	0.1114468	0.2304843	13.958	0.451	13.449	14.308	13.515	0.557	12.875	13.889
566	ENSG00000088812	ATRN	1.1	0.0105842	0.0381684	20.205	0.777	19.600	21.082	18.741	1.219	17.334	19.467
567	ENSG00000085224	ATRX	-1.1	0.0004523	0.0030811	32.620	0.872	32.086	33.626	37.756	0.922	36.890	38.726
568	ENSG00000124788	ATXN1	1.1	0.120768	0.2440322	1.183	0.165	0.994	1.299	1.053	0.041	1.012	1.093
569	ENSG00000130638	ATXN10	-1.1	0.0709018	0.1653358	89.260	1.660	87.919	91.116	95.958	2.178	93.779	98.134
570	ENSG00000224470	ATXN1L	-1.1	0.0140332	0.0478516	15.899	0.481	15.383	16.334	17.788	0.436	17.339	18.209
571	ENSG00000066427	ATXN3	-1.1	0.0220507	0.0679809	3.948	0.051	3.893	3.995	4.434	0.264	4.218	4.728
572	ENSG00000146776	ATXN7L1	-1.1	0.1124755	0.2318999	9.835	0.540	9.351	10.417	10.841	0.551	10.281	11.383
573	ENSG00000087586	AURKA	-1.4	1.19E-11	9.846E-10	95.230	4.730	91.182	100.430	133.835	10.690	122.415	143.604
574	ENSG00000178999	AURKB	-1.3	3.035E-08	9.723E-07	102.438	3.739	98.693	106.171	132.970	8.767	126.332	142.908
575	ENSG00000158321	AUTS2	-1.3	1.472E-07	3.813E-06	23.881	1.451	22.501	25.394	30.535	1.514	28.941	31.954
576	ENSG00000169857	AVEN	1.1	0.0239451	0.0725387	28.395	1.602	26.616	29.725	25.457	2.001	23.353	27.335
577	ENSG00000168646	AXIN2	-1.4	1.659E-06	2.888E-05	5.934	0.536	5.315	6.244	8.691	0.284	8.410	8.978
578	ENSG00000167601	AXL	1.4	3.753E-10	2.074E-08	50.482	3.166	47.954	54.034	37.477	1.483	36.309	39.145
579	ENSG00000155096	AZIN1	1.5	1.05E-17	4.15E-15	201.850	3.687	198.879	205.976	139.112	4.955	135.644	144.787
580	ENSG00000253320	AZIN1-AS1	1.2	0.0367888	0.1004778	3.020	0.199	2.799	3.185	2.480	0.280	2.286	2.800
581	ENSG00000166710	B2M	1.4	2.03E-11	1.579E-09	48.771	0.939	47.761	49.619	36.750	1.230	35.395	37.796
582	ENSG00000169255	B3GALNT1	1.4	1.452E-05	0.0001818	8.416	0.356	8.048	8.759	6.168	0.221	6.024	6.423
583	ENSG00000183778	B3GALT5	1.2	1.022E-06	1.938E-05	16.548	1.046	15.415	17.478	13.942	0.289	13.740	14.273
584	ENSG00000187676	B3GLCT	1.4	0.0002393	0.0018451	5.385	0.099	5.274	5.465	4.043	0.396	3.597	4.349
585	ENSG00000170340	B3GNT2	-1.1	0.0471159	0.1214189	58.309	3.292	55.615	61.979	64.763	4.186	60.090	68.168
586	ENSG00000179913	B3GNT3	-2	6.006E-05	0.0005965	1.373	0.136	1.219	1.477	2.812	0.570	2.430	3.466
587	ENSG00000135454	B4GALNT1	2.7	0.0003355	0.0024136	0.426	0.039	0.388	0.465	0.158	0.048	0.104	0.195
588	ENSG00000182272	B4GALNT4	-1.3	1.444E-06	2.576E-05	21.396	1.941	19.916	23.593	29.148	0.295	28.931	29.483
589	ENSG00000086062	B4GALT1	-1.1	0.0030592	0.0143168	15.755	0.221	15.503	15.916	18.359	0.492	17.843	18.822
590	ENSG00000121578	B4GALT4	-1.2	8.04E-07	1.588E-05	23.817	1.208	23.062	25.210	29.982	1.569	28.321	31.439
591	ENSG00000158470	B4GALT5	-1.1	0.001079	0.0062559	79.512	2.298	77.449	81.989	89.732	4.452	85.675	94.495
592	ENSG00000118276	B4GALT6	1.1	0.0792885	0.1801812	23.371	2.076	22.126	25.767	22.012	1.492	20.459	23.433
593	ENSG00000108641	B9D1	-1.2	0.001758	0.0092109	12.069	0.475	11.787	12.618	14.843	1.052	14.121	16.050
594	ENSG00000164929	BAALC	1.5	0.0314265	0.0894842	1.309	0.404	1.035	1.773	0.917	0.278	0.661	1.213
595	ENSG00000186318	BACE1	1.2	0.0084709	0.0319156	5.859	0.524	5.257	6.216	5.035	0.407	4.573	5.335
596	ENSG00000156273	BACH1	1.1	0.1117278	0.230987	22.941	1.424	22.028	24.582	22.150	1.301	20.648	22.922

	A	B	C	D	E	F	G	H	I	J	K	L	M
598	ENSG00000112182	BACH2	1.8	4.918E-09	2.024E-07	3.466	0.512	3.002	4.016	2.005	0.158	1.859	2.174
599	ENSG00000112208	BAG2	1.3	2.365E-05	0.0002741	10.977	0.815	10.058	11.610	8.869	0.469	8.559	9.410
600	ENSG00000151929	BAG3	1.1	0.0684008	0.1608988	17.958	0.689	17.360	18.711	16.613	0.953	15.603	17.497
601	ENSG00000156735	BAG4	-1.1	0.0057209	0.0235019	25.128	0.843	24.485	26.083	28.660	0.255	28.474	28.951
602	ENSG00000204463	BAG6	-1.1	0.0086138	0.0323172	96.449	5.106	90.589	99.940	107.005	4.924	104.061	112.690
603	ENSG00000140320	BAHD1	1.1	0.0915214	0.200759	30.610	2.575	27.705	32.613	29.210	1.921	27.782	31.394
604	ENSG00000226137	BAIAP2-AS1	1.2	0.0006823	0.0042883	8.161	0.171	8.022	8.352	6.686	0.156	6.538	6.848
605	ENSG00000006453	BAIAP2L1	-1.2	3.479E-05	0.0003779	22.350	0.605	21.879	23.032	27.292	1.559	25.635	28.730
606	ENSG00000030110	BAK1	1.1	0.1167	0.2380591	45.773	1.273	44.520	47.065	43.663	4.052	40.364	48.185
607	ENSG00000175730	BAK1P1	1.3	0.0174613	0.056684	26.281	4.676	21.357	30.663	21.287	2.064	19.657	23.607
608	ENSG00000095739	BAMBI	1.3	6.504E-05	0.0006362	14.742	0.649	14.036	15.313	11.506	0.483	10.949	11.812
609	ENSG00000175334	BANF1	-1.1	0.0005061	0.0033915	155.639	7.227	150.667	163.929	178.610	2.361	175.933	180.396
610	ENSG00000172530	BANP	-1.2	0.0149099	0.0502131	3.804	0.425	3.362	4.210	4.596	0.350	4.220	4.912
611	ENSG00000163930	BAP1	-1.1	0.0003185	0.0023186	36.036	1.337	35.013	37.548	42.086	1.670	40.184	43.315
612	ENSG00000138376	BARD1	1.1	0.0034869	0.0158915	17.782	0.110	17.655	17.853	16.176	0.158	16.024	16.339
613	ENSG00000176788	BASP1	-1.2	1.255E-07	3.323E-06	131.830	3.472	128.018	134.812	162.786	4.666	157.402	165.667
614	ENSG00000123685	BATF3	1.4	0.0994541	0.2124859	0.946	0.246	0.707	1.198	0.669	0.118	0.572	0.800
615	ENSG00000087088	BAX	1.2	1.875E-05	0.0002249	152.352	4.488	148.825	157.404	135.063	5.867	129.726	141.346
616	ENSG00000009954	BAZ1B	-1.1	0.003506	0.0159529	59.492	1.437	58.153	61.011	66.148	2.174	63.910	68.253
617	ENSG00000076108	BAZ2A	-1.1	0.0749413	0.1723995	51.518	2.020	49.454	53.491	55.332	1.674	53.966	57.199
618	ENSG00000123636	BAZ2B	-1.2	1.565E-05	0.0001929	5.620	0.117	5.530	5.752	7.003	0.241	6.734	7.197
619	ENSG00000105327	BBC3	-1.1	0.0211214	0.0658845	35.239	3.396	32.939	39.140	40.468	3.085	37.750	43.821
620	ENSG00000119636	BBOF1	1.5	0.0460198	0.1191641	0.908	0.130	0.767	1.023	0.624	0.193	0.403	0.759
621	ENSG00000179941	BBS10	-1.1	0.0450881	0.1173553	32.850	2.499	30.575	35.525	36.710	2.097	34.300	38.112
623	ENSG00000125124	BBS2	1.1	0.1049675	0.2208269	12.356	0.705	11.653	13.063	11.815	0.224	11.568	12.006
624	ENSG00000140463	BBS4	1.1	0.0460215	0.1191641	22.075	0.268	21.778	22.299	20.709	0.388	20.280	21.037
625	ENSG00000114439	BBX	1.1	0.0535815	0.1339181	29.572	0.859	29.039	30.563	28.552	0.967	27.956	29.668
626	ENSG00000187244	BCAM	-1.1	0.00376	0.0168728	39.257	2.778	36.059	41.072	45.052	2.623	43.276	48.065
627	ENSG00000132692	BCAN	1.5	9.897E-05	0.0008965	4.426	0.295	4.105	4.683	3.103	0.312	2.803	3.425
628	ENSG00000075790	BCAP29	1.2	0.0013742	0.0075458	8.541	0.553	7.973	9.077	7.241	0.134	7.086	7.332
629	ENSG00000050820	BCAR1	1.5	7.895E-09	3.028E-07	36.623	1.641	35.656	38.518	24.828	2.951	21.918	27.819
630	ENSG00000137936	BCAR3	-1.1	0.0375763	0.1019781	5.826	0.255	5.555	6.062	6.844	0.315	6.499	7.116
631	ENSG00000141376	BCAS3	1.3	0.0002345	0.0018158	5.039	0.410	4.758	5.510	4.116	0.251	3.954	4.405
632	ENSG00000060982	BCAT1	1.4	3.62E-14	5.68E-12	133.934	4.129	129.298	137.212	101.404	0.625	100.684	101.809
633	ENSG00000105552	BCAT2	-1.2	0.0062848	0.0252722	13.263	1.209	11.998	14.407	15.662	0.184	15.527	15.871
634	ENSG00000107949	BCCIP	-1.1	0.0001082	0.000962	72.145	1.670	70.452	73.790	84.214	3.770	79.868	86.597
635	ENSG00000114200	BCHE	1.3	0.0298412	0.0859147	2.851	0.282	2.610	3.162	2.173	0.630	1.516	2.771
636	ENSG00000248098	BCKDHA	-1.2	0.1226065	0.246833	2.772	0.682	1.986	3.206	3.477	0.332	3.126	3.784
637	ENSG00000083123	BCKDHB	1.1	0.1040946	0.2195201	27.070	0.192	26.947	27.291	25.801	1.159	25.087	27.138
638	ENSG00000171791	BCL2	1.3	0.0011248	0.0064671	2.249	0.241	2.039	2.512	1.771	0.043	1.729	1.816
639	ENSG00000153094	BCL2L11	-1.4	3.915E-09	1.651E-07	9.841	0.217	9.602	10.025	14.487	0.536	14.065	15.090
640	ENSG00000069399	BCL3	-1.4	0.017697	0.0572511	1.265	0.180	1.139	1.471	1.836	0.104	1.724	1.930

	A	B	C	D	E	F	G	H	I	J	K	L	M
641	ENSG00000113916	BCL6	-1.2	0.0131894	0.0455623	7.234	0.183	7.061	7.427	8.618	0.527	8.081	9.134
642	ENSG00000161940	BCL6B	-1.4	0.0001779	0.0014533	3.150	0.143	3.039	3.311	4.615	0.617	4.083	5.291
643	ENSG00000110987	BCL7A	1.1	0.035195	0.0973113	8.441	0.810	7.899	9.373	7.651	0.476	7.310	8.195
644	ENSG00000116128	BCL9	1.1	0.0465095	0.1201652	42.375	2.894	39.257	44.974	40.494	1.383	39.278	41.999
645	ENSG00000029363	BCLAF1	1.1	0.0234308	0.0714021	95.420	1.970	93.183	96.895	91.422	0.321	91.052	91.619
646	ENSG00000248966	BCLAF1P1	1.3	0.0756847	0.1736611	2.179	0.454	1.769	2.666	1.701	0.127	1.618	1.847
647	ENSG00000183337	BCOR	-1.1	0.0052355	0.0218637	20.649	0.486	20.115	21.064	23.339	1.218	21.955	24.247
648	ENSG00000085185	BCORL1	-1.3	0.0008521	0.0051344	2.581	0.102	2.511	2.698	3.441	0.130	3.321	3.579
649	ENSG00000161267	BDH1	1.2	0.0036692	0.0165664	3.592	0.081	3.499	3.645	2.934	0.218	2.797	3.186
650	ENSG00000183092	BEGAIN	1.3	0.0557052	0.1379226	1.279	0.089	1.218	1.381	1.031	0.047	0.993	1.084
651	ENSG00000188848	BEND4	-1.3	4.892E-08	1.467E-06	25.634	0.879	24.919	26.615	33.006	2.417	31.503	35.794
652	ENSG00000151917	BEND6	1.3	0.0101333	0.0368646	2.768	0.662	2.272	3.519	2.120	0.104	2.015	2.223
654	ENSG00000165626	BEND7	1.1	0.0654722	0.1556334	3.150	0.239	2.873	3.294	2.851	0.168	2.674	3.010
655	ENSG00000167995	BEST1	1.8	0.0060082	0.0243978	0.375	0.051	0.317	0.414	0.216	0.028	0.191	0.246
657	ENSG00000039987	BEST2	-2.1	5.2E-05	0.0005283	1.045	0.115	0.949	1.173	2.236	0.303	2.054	2.586
658	ENSG00000142959	BEST4	-1.2	0.101971	0.216174	2.485	0.054	2.452	2.547	3.167	0.202	2.959	3.362
659	ENSG00000105829	BET1	-1.1	0.1186632	0.2408437	19.760	1.001	18.994	20.892	21.571	1.075	20.835	22.805
660	ENSG00000177951	BET1L	-1.2	1.263E-05	0.0001632	20.621	1.499	19.665	22.348	26.223	0.966	25.145	27.011
661	ENSG00000133169	BEX1	1.1	0.0189154	0.0603503	149.287	4.545	145.260	154.215	139.620	5.037	134.043	143.838
662	ENSG00000133134	BEX2	1.3	2.011E-06	3.408E-05	96.910	3.332	93.091	99.225	78.828	3.869	74.675	82.332
663	ENSG00000166681	BEX3	1	0.1037161	0.219014	526.332	0.718	525.506	526.802	514.719	12.870	506.593	529.557
664	ENSG00000184515	BEX5	1.4	1.041E-05	0.0001377	29.675	1.551	28.031	31.112	21.407	1.217	20.096	22.499
665	ENSG00000103429	BFAR	-1.1	0.1032967	0.2182457	52.201	1.114	51.161	53.376	56.125	0.749	55.260	56.575
666	ENSG00000182492	BGN	-1.3	0.0401483	0.1073055	3.787	1.003	3.011	4.920	5.038	0.946	4.368	6.121
667	ENSG00000198908	BHLHB9	1.1	0.0438091	0.1147149	15.712	0.933	14.753	16.616	14.610	0.976	13.640	15.592
669	ENSG00000134107	BHLHE40	6.1	6.74E-25	1.90E-21	19.477	2.199	17.628	21.909	3.252	0.485	2.833	3.784
670	ENSG00000235831	BHLHE40-AS1	2.4	0.0003298	0.0023806	1.453	0.323	1.152	1.794	0.635	0.356	0.403	1.044
671	ENSG00000123095	BHLHE41	1.5	0.001543	0.00829	3.078	0.672	2.393	3.736	2.088	0.620	1.455	2.694
672	ENSG00000122870	BICC1	1.8	0.0200348	0.0631355	0.383	0.125	0.270	0.517	0.217	0.041	0.178	0.260
673	ENSG00000151746	BICD1	1.1	0.0035748	0.0162308	12.304	0.774	11.775	13.192	11.170	0.279	10.934	11.478
674	ENSG00000185963	BICD2	-1.2	5.313E-05	0.0005371	20.397	0.832	19.447	20.997	24.490	0.604	24.097	25.186
676	ENSG00000135127	BICDL1	1.2	0.0001859	0.0015052	11.730	0.521	11.396	12.331	9.746	0.643	9.005	10.164
678	ENSG00000063169	BICRA	-1.2	0.0110691	0.0395379	4.313	0.341	3.949	4.625	5.203	0.529	4.882	5.813
679	ENSG00000112624	BICRAL	-1.2	0.0031868	0.0147931	6.992	0.348	6.645	7.341	8.420	0.315	8.057	8.609
680	ENSG00000136717	BIN1	1.1	0.0078361	0.0301371	20.029	0.370	19.739	20.445	18.456	0.481	18.020	18.971
681	ENSG00000147439	BIN3	1.2	0.0013148	0.0072868	9.406	0.879	8.536	10.294	7.873	0.262	7.643	8.159
682	ENSG00000110330	BIRC2	1.1	0.0121799	0.0428004	36.229	0.747	35.468	36.960	33.522	2.012	31.646	35.646
683	ENSG00000089685	BIRC5	-1.2	3.438E-08	1.071E-06	94.233	1.866	93.062	96.385	117.005	4.306	113.696	121.873
684	ENSG00000134897	BIVM	1.5	1.405E-05	0.0001776	4.205	0.217	4.028	4.447	2.927	0.028	2.903	2.958
685	ENSG00000281406	BLACAT1	1.2	0.0027843	0.0132875	11.842	1.118	10.553	12.534	9.860	0.569	9.285	10.423
686	ENSG00000108578	BLMH	1.1	0.0003343	0.002407	51.789	0.919	51.202	52.849	47.072	0.881	46.320	48.041
687	ENSG00000135441	BLOC1S1	1.3	0.0017596	0.0092137	21.077	1.452	20.153	22.750	17.045	1.094	16.225	18.287

	A	B	C	D	E	F	G	H	I	J	K	L	M
689	ENSG00000196072	BLOC1S2	1.2	0.0002432	0.0018678	65.735	3.134	63.252	69.257	57.833	2.565	55.322	60.449
690	ENSG00000104164	BLOC1S6	1.1	0.087828	0.1944683	25.282	0.637	24.704	25.964	24.226	1.028	23.109	25.132
691	ENSG00000106605	BLVRA	1.1	0.0456807	0.1185692	47.310	3.297	44.756	51.031	44.060	0.648	43.324	44.540
692	ENSG00000090013	BLVRB	1.3	6.013E-06	8.655E-05	55.664	1.437	54.216	57.089	45.128	0.622	44.584	45.806
693	ENSG00000104081	BMF	-1.4	1.171E-08	4.277E-07	14.090	1.277	12.848	15.399	19.976	0.969	19.245	21.075
694	ENSG00000168487	BMP1	-1.3	0.0737699	0.1704359	1.229	0.092	1.127	1.304	1.580	0.168	1.393	1.717
695	ENSG00000125845	BMP2	-1.6	0.0111718	0.0414442	0.850	0.231	0.662	1.108	1.387	0.082	1.303	1.466
696	ENSG00000138756	BMP2K	1.1	0.0086158	0.0323175	13.313	0.689	12.743	14.078	12.244	0.668	11.517	12.830
697	ENSG00000125378	BMP4	-1.5	0.0029383	0.0138311	2.033	0.391	1.595	2.349	3.057	0.268	2.842	3.357
698	ENSG00000101144	BMP7	-1.2	0.0140018	0.0477877	8.055	0.227	7.809	8.257	9.532	0.542	8.943	10.011
699	ENSG00000116985	BMP8B	1.4	0.0702214	0.1642449	0.880	0.129	0.742	0.996	0.638	0.209	0.483	0.876
700	ENSG00000232460	BMPR1APS 2	1.1	0.0893822	0.197044	38.344	1.296	36.952	39.515	35.304	1.973	33.351	37.297
701	ENSG00000138696	BMPR1B	2	0.0018378	0.0095319	0.579	0.110	0.491	0.702	0.298	0.131	0.221	0.449
702	ENSG00000165733	BMS1	-1	0.0859886	0.1915855	47.486	0.887	46.900	48.506	50.840	0.083	50.751	50.916
703	ENSG00000173068	BNC2	-1.2	6.669E-05	0.0006495	6.203	0.750	5.406	6.894	7.824	0.414	7.502	8.290
704	ENSG00000113734	BNIP1	-1.3	0.000685	0.0043022	9.107	0.498	8.537	9.464	11.943	0.567	11.329	12.448
705	ENSG00000176171	BNIP3	-1.7	9.411E-06	0.0001269	14.417	1.084	13.525	15.624	25.536	4.604	22.330	30.812
706	ENSG00000104765	BNIP3L	-1.2	6.152E-08	1.773E-06	53.326	3.445	50.880	57.266	67.586	2.605	64.600	69.397
707	ENSG00000197358	BNIP3P1	-2.1	5.204E-07	1.118E-05	8.376	0.987	7.238	8.995	17.771	4.802	14.406	23.270
708	ENSG00000144857	BOC	-1.3	0.0170415	0.0556844	1.917	0.222	1.672	2.106	2.444	0.347	2.052	2.710
709	ENSG00000176720	BOK	1.1	0.0489421	0.1250391	32.129	1.283	30.749	33.285	30.048	1.466	29.018	31.727
710	ENSG00000261236	BOP1	-1.3	5.663E-09	2.291E-07	33.212	2.217	31.713	35.759	45.810	3.475	42.335	49.285
711	ENSG00000137274	BPHL	1.2	0.0001374	0.0011683	15.965	0.343	15.735	16.359	13.291	1.084	12.122	14.263
712	ENSG00000171634	BPTF	-1.1	0.0001003	0.0009065	46.570	1.228	45.253	47.684	53.398	1.550	51.805	54.902
713	ENSG00000157764	BRAF	-1.1	0.1019887	0.2161839	10.359	0.481	9.907	10.865	11.384	0.390	11.139	11.833
714	ENSG00000106009	BRAT1	-1.2	6.877E-05	0.0006658	18.390	0.648	17.796	19.081	22.449	1.875	20.562	24.311
715	ENSG00000012048	BRCA1	1.1	0.0362965	0.0995433	18.167	0.339	17.784	18.430	17.252	0.339	16.989	17.635
716	ENSG00000139618	BRCA2	1.3	4.544E-06	6.832E-05	9.590	0.245	9.420	9.871	7.684	0.754	7.220	8.554
717	ENSG00000185515	BRCC3	1.1	0.0045878	0.0197791	24.065	0.685	23.574	24.847	21.490	0.857	20.668	22.377
718	ENSG00000204256	BRD2	-1.1	0.0002253	0.0017556	63.123	2.027	60.974	65.000	71.765	0.851	70.922	72.623
719	ENSG00000169925	BRD3	-1.2	9.505E-07	1.829E-05	31.721	1.184	30.491	32.853	39.065	1.392	37.838	40.578
720	ENSG00000166164	BRD7	1.1	0.0068372	0.0269666	36.863	0.241	36.591	37.050	34.689	1.446	33.455	36.280
721	ENSG00000112983	BRD8	-1.2	2.762E-06	4.474E-05	24.648	1.155	23.365	25.606	30.475	0.667	30.020	31.241
722	ENSG00000028310	BRD9	-1.1	0.0583058	0.1425654	12.560	0.444	12.205	13.058	13.785	0.257	13.489	13.956
723	ENSG00000185024	BRF1	-1.2	0.0246491	0.0741351	2.441	0.066	2.366	2.489	2.889	0.204	2.712	3.112
724	ENSG00000164713	BRI3	1.2	0.0035263	0.0160324	15.694	0.361	15.337	16.060	13.767	1.302	12.803	15.247
725	ENSG00000078725	BRINP1	-1.3	0.0001094	0.0009706	8.095	1.281	6.659	9.118	11.146	0.893	10.579	12.175
726	ENSG00000136492	BRIP1	1.2	0.0004258	0.0029356	16.941	0.295	16.612	17.183	14.949	0.349	14.619	15.314
727	ENSG00000254999	BRK1	-1.1	0.0975156	0.2094591	254.906	9.022	248.509	265.225	274.071	6.491	267.641	280.622
728	ENSG00000174744	BRMS1	-1.1	0.0398694	0.1066779	24.371	0.362	24.001	24.725	27.557	1.541	25.880	28.910
729	ENSG00000156983	BRPF1	-1.1	0.0388628	0.1045303	8.132	0.366	7.710	8.351	9.340	0.480	8.928	9.867

	A	B	C	D	E	F	G	H	I	J	K	L	M
730	ENSG00000160469	BRSK1	-1.5	8.2E-09	3.131E-07	11.938	1.015	10.861	12.877	18.161	0.957	17.062	18.813
732	ENSG00000174672	BRSK2	-1.1	0.0664593	0.1575219	4.612	0.494	4.058	5.005	5.300	0.363	4.882	5.536
733	ENSG00000160058	BSDC1	1.1	0.0583584	0.1426117	24.023	0.450	23.638	24.518	22.874	0.973	21.822	23.743
734	ENSG00000164061	BSN	1.1	0.0721623	0.1676945	1.373	0.075	1.292	1.442	1.221	0.025	1.193	1.243
735	ENSG00000162399	BSND	1.3	0.1163398	0.2376396	1.423	0.498	0.850	1.759	1.080	0.368	0.769	1.487
736	ENSG00000130303	BST2	-1.8	1.27E-15	2.73E-13	88.251	6.795	80.881	94.268	158.341	9.786	151.824	169.594
737	ENSG00000064726	BTBD1	1.1	0.0008595	0.0051731	62.148	2.385	60.634	64.897	56.242	2.025	54.461	58.444
738	ENSG00000148925	BTBD10	1.2	0.0011223	0.0064609	29.192	1.101	28.195	30.374	25.858	0.705	25.060	26.394
739	ENSG00000204347	BTBD17	-1.4	0.1230867	0.2475935	1.314	0.361	0.900	1.568	1.822	0.386	1.473	2.237
740	ENSG00000133243	BTBD2	-1.1	0.0181701	0.0585355	44.891	1.121	43.667	45.869	49.785	4.211	46.376	54.492
741	ENSG00000184887	BTBD6	1.4	0.0006004	0.0038845	9.891	1.237	8.888	11.274	7.439	0.884	6.419	7.977
742	ENSG00000183826	BTBD9	1.2	0.092432	0.2020031	1.465	0.056	1.406	1.518	1.254	0.283	1.067	1.580
743	ENSG00000169814	BTD	-1.2	0.0032123	0.0148808	10.359	0.507	9.846	10.860	12.680	0.501	12.118	13.081
744	ENSG00000134717	BTF3L4	1.1	0.012259	0.0429622	59.859	1.389	58.952	61.459	56.660	1.876	54.561	58.175
745	ENSG00000231120	BTF3P10	-1.1	0.0994331	0.2124715	40.941	3.072	38.702	44.443	48.005	6.113	41.830	54.055
746	ENSG00000133639	BTG1	-1.1	0.0324098	0.091648	16.844	0.323	16.649	17.216	18.870	0.715	18.050	19.365
747	ENSG00000159388	BTG2	-1.1	0.0493598	0.1258202	40.994	1.774	38.958	42.200	45.965	5.257	40.895	51.392
748	ENSG00000112763	BTN2A1	1.2	0.0020977	0.0105369	11.104	0.817	10.397	11.999	9.347	0.422	8.968	9.801
749	ENSG00000124508	BTN2A2	1.1	0.0949857	0.2059876	10.716	0.607	10.015	11.073	10.077	0.053	10.017	10.108
750	ENSG00000111801	BTN3A3	-1.2	0.0461108	0.1193194	3.060	0.165	2.931	3.246	3.720	0.367	3.471	4.142
751	ENSG00000169679	BUB1	-1.7	1.64E-20	1.21E-17	114.255	5.331	110.479	120.353	198.885	12.129	185.139	208.083
752	ENSG00000156970	BUB1B	-1.4	7.22E-15	1.37E-12	146.944	3.199	144.741	150.613	211.276	12.296	201.775	225.163
753	ENSG00000154473	BUB3	-1.3	1.754E-09	8.128E-08	65.233	2.667	63.543	68.308	83.413	5.068	77.687	87.324
754	ENSG00000071462	BUD23	-1.1	0.0580421	0.1421674	17.981	0.593	17.415	18.598	19.646	0.672	19.021	20.357
755	ENSG00000112276	BVES	1.3	0.0071854	0.028105	4.864	0.370	4.525	5.259	3.954	0.918	3.021	4.856
756	ENSG00000082153	BZW1	-1.1	0.0010277	0.0060059	62.353	2.623	59.572	64.783	69.977	0.732	69.473	70.816
757	ENSG00000198406	BZW1P2	-1.1	0.0024072	0.0117837	281.754	6.524	274.282	286.322	316.808	2.315	314.176	318.527
758	ENSG00000165507	C10orf10	-2	0.0003013	0.0022173	0.877	0.300	0.550	1.140	1.801	0.190	1.616	1.995
759	ENSG00000165863	C10orf82	1.3	0.0002069	0.0016349	11.838	0.722	11.030	12.421	9.124	0.331	8.760	9.406
760	ENSG00000119965	C10orf88	-1.2	0.0149519	0.0503145	10.653	0.714	9.871	11.269	12.643	0.219	12.413	12.848
761	ENSG00000149179	C11orf49	1.2	0.001305	0.0072498	7.960	0.330	7.677	8.322	6.611	1.048	5.585	7.680
762	ENSG00000182919	C11orf54	-1.1	0.0653379	0.1553578	9.812	0.376	9.387	10.104	11.028	0.694	10.231	11.500
763	ENSG00000180425	C11orf71	-1.2	0.0140983	0.0480607	13.293	0.938	12.399	14.270	16.250	2.319	14.554	18.893
764	ENSG00000173715	C11orf80	1.3	3.444E-05	0.0003744	12.549	0.925	12.000	13.616	9.654	0.830	8.745	10.372
765	ENSG00000139637	C12orf10	1.1	0.1229537	0.2474435	34.459	0.500	33.976	34.975	32.883	0.469	32.352	33.239
766	ENSG00000047621	C12orf4	1.2	0.0266498	0.078691	6.797	0.577	6.157	7.279	5.961	0.369	5.541	6.236
767	ENSG00000111412	C12orf49	1.1	0.0007091	0.0044139	26.108	0.898	25.072	26.652	23.792	0.439	23.320	24.189
768	ENSG00000130921	C12orf65	1.2	0.0265062	0.0783286	4.512	0.172	4.392	4.709	3.941	0.416	3.507	4.337
770	ENSG00000235162	C12orf75	1.2	0.0025257	0.0122784	24.439	1.200	23.206	25.603	21.303	0.825	20.443	22.087
771	ENSG00000133935	C14orf1	1.2	0.0001287	0.001111	64.284	0.734	63.798	65.128	57.144	1.890	56.033	59.326
772	ENSG00000179933	C14orf119	-1.1	0.0290426	0.0841553	46.870	1.494	45.149	47.836	51.622	1.431	49.978	52.587
773	ENSG00000133943	C14orf159	1.1	0.0530301	0.1329328	9.448	0.282	9.253	9.771	8.755	0.679	8.349	9.539
774	ENSG00000156411	C14orf2	-1.1	0.0675043	0.1593891	47.832	2.576	44.949	49.909	52.287	1.967	50.194	54.098

	A	B	C	D	E	F	G	H	I	J	K	L	M
775	ENSG00000179476	C14orf28	1.2	0.0049493	0.0209817	8.791	0.379	8.412	9.170	7.424	0.626	6.752	7.990
776	ENSG00000139971	C14orf37	1.1	0.0991313	0.2120409	11.324	0.951	10.305	12.186	10.708	0.273	10.420	10.962
777	ENSG00000185347	C14orf80	1.2	0.0192088	0.0610197	3.450	0.135	3.351	3.603	2.937	0.215	2.690	3.082
778	ENSG00000167173	C15orf39	1.1	0.0736213	0.1701731	6.932	0.134	6.808	7.075	6.390	0.436	6.001	6.862
779	ENSG00000169609	C15orf40	-1.3	5.113E-06	7.568E-05	3.348	0.128	3.200	3.430	4.553	0.226	4.299	4.734
780	ENSG00000186073	C15orf41	1.2	0.0375683	0.1019781	5.081	0.139	4.920	5.162	4.437	0.986	3.483	5.451
781	ENSG00000205363	C15orf59	-1.2	0.1009443	0.2144813	2.118	0.127	1.972	2.201	2.526	0.270	2.332	2.835
782	ENSG00000260469	C15orf59-AS1	-1.7	1.216E-05	0.0001577	5.926	0.911	4.875	6.472	10.031	0.807	9.136	10.702
783	ENSG00000166780	C16orf45	1.1	0.0752713	0.1729008	10.147	0.424	9.775	10.609	9.091	1.621	7.240	10.263
784	ENSG00000162062	C16orf59	-1.2	0.0029778	0.0140015	20.742	0.205	20.515	20.913	24.684	1.616	23.072	26.304
785	ENSG00000103544	C16orf62	1.1	0.0354585	0.097784	21.525	1.422	20.135	22.977	20.305	1.451	19.052	21.895
786	ENSG00000125149	C16orf70	-1.1	0.0794925	0.1804156	8.535	0.296	8.297	8.867	9.529	0.358	9.149	9.859
787	ENSG00000154102	C16orf74	1.6	0.0008926	0.0053174	4.618	0.884	3.793	5.551	3.020	0.192	2.848	3.227
788	ENSG00000159761	C16orf86	-1.4	0.0335343	0.0939171	2.374	0.557	1.734	2.748	3.377	0.436	2.985	3.847
789	ENSG00000205832	C16orf96	-1.4	0.0096737	0.0354597	2.184	0.506	1.854	2.767	3.027	0.102	2.925	3.128
791	ENSG00000125319	C17orf53	1.1	0.1084705	0.226217	11.421	1.223	10.023	12.291	10.392	1.551	9.386	12.179
792	ENSG00000178927	C17orf62	-1.2	0.0002823	0.0021107	9.998	0.510	9.597	10.572	12.204	0.805	11.350	12.950
793	ENSG00000108666	C17orf75	1.1	0.0059635	0.0242812	22.931	1.126	21.967	24.169	20.809	1.697	19.044	22.429
794	ENSG00000141428	C18orf21	-1.1	0.0614605	0.1482432	21.024	0.785	20.366	21.894	24.059	2.800	21.235	26.835
795	ENSG00000152242	C18orf25	-1.1	0.0011181	0.0064429	13.142	0.282	12.851	13.414	15.451	0.946	14.385	16.190
796	ENSG00000177576	C18orf32	-1.2	0.0132761	0.0458055	2.537	0.110	2.414	2.625	3.206	0.223	2.966	3.406
797	ENSG00000167747	C19orf48	-1.2	9.855E-07	1.879E-05	42.989	3.290	39.859	46.418	54.594	2.564	52.485	57.449
798	ENSG00000104979	C19orf53	-1.2	0.0010331	0.0060337	84.131	5.746	80.288	90.736	99.008	0.491	98.449	99.365
799	ENSG00000188493	C19orf54	-1.1	0.0165729	0.0545645	19.256	1.177	18.549	20.615	22.284	1.069	21.456	23.490
800	ENSG00000130813	C19orf66	-1.1	0.0416305	0.1102045	8.846	0.740	7.997	9.353	10.237	0.744	9.496	10.983
801	ENSG00000183397	C19orf71	1.5	0.089287	0.1968855	6.231	1.461	4.819	7.737	4.247	1.167	3.249	5.530
802	ENSG00000231245	C1DP1	-1.2	0.0577016	0.1415177	56.044	9.965	48.735	67.395	66.440	1.854	64.583	68.291
804	ENSG00000106392	C1GALT1	-1.1	0.0455822	0.1183682	58.666	2.049	56.311	60.042	63.882	1.963	61.742	65.600
805	ENSG00000163362	C1orf106	-1.3	2.297E-05	0.0002677	11.301	0.114	11.197	11.422	14.621	1.684	13.334	16.527
806	ENSG00000116922	C1orf109	-1.1	0.0273878	0.0804007	16.134	0.331	15.927	16.516	18.329	1.406	16.755	19.459
807	ENSG00000162817	C1orf115	1.1	0.0642676	0.1534818	16.622	0.197	16.395	16.752	15.353	1.075	14.327	16.472
808	ENSG00000182795	C1orf116	1.4	0.0006928	0.0043364	3.203	0.364	2.979	3.623	2.337	0.419	1.972	2.794
809	ENSG00000131591	C1orf159	-1.3	0.0004435	0.0030278	3.015	0.046	2.968	3.059	4.037	0.186	3.854	4.225
810	ENSG00000119280	C1orf198	1.1	0.0830041	0.186682	23.831	0.695	23.144	24.533	22.819	0.384	22.377	23.061
811	ENSG00000116667	C1orf21	-1.2	1.877E-05	0.0002249	7.425	0.226	7.238	7.676	9.484	0.577	8.910	10.065
812	ENSG00000253313	C1orf210	1.2	0.0345909	0.0960808	22.470	1.171	21.522	23.779	19.752	1.757	17.723	20.795
813	ENSG00000142686	C1orf216	1.2	0.0010766	0.0062464	11.998	0.769	11.372	12.856	10.034	0.370	9.654	10.393
814	ENSG00000157181	C1orf27	-1.2	0.0008268	0.0050065	15.784	1.044	14.582	16.457	19.509	1.054	18.508	20.610
815	ENSG00000143612	C1orf43	-1.1	7.071E-05	0.0006811	137.509	6.755	133.511	145.307	160.761	4.062	156.079	163.343
816	ENSG00000162642	C1orf52	1.2	9.652E-06	0.0001297	31.663	1.429	30.047	32.759	26.040	0.742	25.202	26.615
817	ENSG00000118292	C1orf54	-1.2	0.0342704	0.0954137	18.013	1.628	16.431	19.684	21.473	1.746	19.564	22.990
818	ENSG00000125462	C1orf61	1.1	0.0724008	0.1681563	2.310	0.247	2.026	2.480	2.068	0.242	1.854	2.331

	A	B	C	D	E	F	G	H	I	J	K	L	M
819	ENSG00000142698	C1orf94	1.2	0.0958043	0.2070455	5.636	0.759	4.760	6.075	4.882	0.944	4.160	5.950
820	ENSG00000108561	C1QBP	-1	0.0964414	0.2078382	241.403	10.498	235.308	253.525	258.981	8.774	251.705	268.725
821	ENSG00000165985	C1QL3	-1.5	0.0197333	0.0623247	1.347	0.121	1.244	1.481	2.120	0.473	1.674	2.616
823	ENSG00000184163	C1QTNF12	-1.4	0.0280111	0.0819074	2.475	0.531	1.910	2.963	3.626	0.689	2.857	4.186
824	ENSG00000082196	C1QTNF3	-1.4	0.1081696	0.2257214	0.552	0.143	0.417	0.702	0.804	0.171	0.608	0.918
825	ENSG00000172247	C1QTNF4	-1.5	0.0128953	0.0447014	2.818	0.403	2.575	3.283	4.191	0.991	3.080	4.981
826	ENSG00000088854	C2orf194	-1.2	0.0098553	0.0360231	6.664	0.453	6.258	7.152	7.891	0.567	7.298	8.428
827	ENSG00000101220	C2orf27	-1.2	0.0009094	0.0054008	44.898	0.632	44.353	45.590	53.163	4.520	48.101	56.796
828	ENSG00000160221	C21orf33	1.2	0.0019723	0.0100625	31.569	1.248	30.482	32.932	27.863	2.483	25.005	29.489
829	ENSG00000160298	C21orf58	-1.1	0.0770279	0.1760979	11.882	0.385	11.508	12.278	13.269	0.307	13.090	13.624
830	ENSG00000215012	C22orf29	1.2	0.0002808	0.0021013	11.272	0.872	10.309	12.009	9.506	0.269	9.200	9.702
831	ENSG00000184208	C22orf46	1.2	0.0012917	0.0071993	11.240	0.560	10.899	11.887	9.346	0.897	8.785	10.380
832	ENSG00000172375	C2CD2L	-1.2	0.079304	0.1801812	0.654	0.045	0.625	0.705	0.832	0.081	0.775	0.925
833	ENSG00000183186	C2CD4C	-1.4	0.0010826	0.0062727	3.930	0.255	3.681	4.190	5.567	0.711	4.747	5.998
834	ENSG00000111731	C2CD5	-1.1	0.0010081	0.0059124	36.574	0.814	36.021	37.509	41.538	0.636	40.888	42.160
835	ENSG00000273045	C2orf15	-1.3	0.0309803	0.0885234	4.191	0.493	3.871	4.758	5.504	0.646	4.852	6.144
836	ENSG00000119147	C2orf40	1.4	0.1015687	0.2155643	1.760	0.477	1.272	2.225	1.281	0.050	1.246	1.338
837	ENSG00000115998	C2orf42	1.3	0.0171385	0.0559042	3.931	0.151	3.826	4.104	3.175	0.032	3.145	3.209
839	ENSG00000135974	C2orf49	-1.2	0.0001571	0.0013087	16.809	0.358	16.443	17.159	20.578	1.391	19.419	22.121
840	ENSG00000172478	C2orf54	4.9	8.541E-09	3.239E-07	2.136	0.609	1.666	2.825	0.439	0.074	0.361	0.508
841	ENSG00000168887	C2orf68	-1.1	0.0203192	0.0638532	27.675	0.961	26.944	28.764	30.938	1.016	30.300	32.109
842	ENSG00000178074	C2orf69	-1.2	0.0220471	0.0679809	28.063	1.969	26.652	30.313	33.668	0.936	32.788	34.652
843	ENSG00000204128	C2orf72	1.2	0.1166984	0.2380591	1.654	0.184	1.496	1.857	1.357	0.182	1.210	1.560
844	ENSG00000174928	C3orf33	1.3	0.0068846	0.0271357	7.032	0.561	6.702	7.680	5.575	0.092	5.497	5.676
845	ENSG00000188315	C3orf62	1.2	0.1122421	0.2316758	1.836	0.222	1.579	1.965	1.539	0.343	1.248	1.917
846	ENSG00000180044	C3orf80	2	0.023592	0.0717131	0.618	0.208	0.380	0.767	0.315	0.131	0.173	0.430
847	ENSG00000244731	C4A	-1.4	0.0512049	0.1293351	0.462	0.032	0.438	0.498	0.660	0.126	0.557	0.800
848	ENSG00000154274	C4orf19	2	0.1180994	0.2401317	0.338	0.171	0.215	0.533	0.174	0.103	0.056	0.241
849	ENSG00000151470	C4orf33	1.4	0.0018437	0.009541	2.048	0.135	1.894	2.145	1.470	0.222	1.226	1.660
850	ENSG00000205129	C4orf47	-1.7	0.004354	0.0189986	2.241	0.167	2.055	2.378	3.813	1.423	2.199	4.889
851	ENSG00000106804	C5	1.7	0.002424	0.011847	0.952	0.056	0.889	0.995	0.584	0.133	0.503	0.737
852	ENSG00000082213	C5orf22	1.1	0.0012632	0.0070861	32.668	2.618	29.675	34.532	29.078	0.158	28.961	29.258
853	ENSG00000172244	C5orf34	1.1	0.0385896	0.1040436	13.723	1.510	12.463	15.397	12.289	0.397	12.051	12.748
854	ENSG00000197603	C5orf42	1.2	2.416E-05	0.000279	5.961	0.284	5.636	6.165	4.930	0.050	4.892	4.988
855	ENSG00000234511	C5orf58	-1.4	0.059856	0.1454309	0.913	0.109	0.787	0.980	1.300	0.074	1.217	1.360
856	ENSG00000196821	C6orf106	1.1	9.648E-05	0.0008779	114.587	1.985	112.575	116.543	104.037	6.190	98.960	110.933
857	ENSG00000185127	C6orf120	-1.1	0.0459278	0.1190371	55.878	4.170	51.784	60.121	61.519	1.547	59.802	62.806
858	ENSG00000188112	C6orf132	1.1	0.0791996	0.1800897	15.241	1.769	13.316	16.797	14.321	0.823	13.371	14.836
859	ENSG00000204564	C6orf136	-1.2	0.0368476	0.100533	9.998	0.799	9.215	10.812	11.992	0.290	11.658	12.184
860	ENSG00000197261	C6orf141	-1.8	6.851E-06	9.64E-05	3.042	0.796	2.260	3.851	5.512	0.760	4.711	6.224
861	ENSG00000203872	C6orf163	-2	0.0031423	0.0146369	0.600	0.152	0.512	0.775	1.219	0.266	0.915	1.410
862	ENSG00000181577	C6orf223	2.7	8.88E-11	5.823E-09	3.832	0.168	3.659	3.994	1.421	0.144	1.321	1.586

	A	B	C	D	E	F	G	H	I	J	K	L	M
863	ENSG00000221821	C6orf226	-1.4	0.0083252	0.0315141	8.946	1.492	7.226	9.896	13.169	1.118	12.396	14.450
864	ENSG00000204439	C6orf47	1.1	0.0724433	0.168209	15.381	0.088	15.281	15.450	14.063	1.607	12.474	15.687
865	ENSG00000204387	C6orf48	1.3	2.988E-08	9.645E-07	134.577	8.644	125.161	142.152	107.407	2.824	104.246	109.684
866	ENSG00000112308	C6orf62	1.1	0.0038313	0.0171382	113.530	4.556	108.297	116.612	106.354	1.411	105.203	107.928
867	ENSG00000198663	C6orf89	1.1	0.0032444	0.014998	13.930	0.403	13.607	14.382	12.517	0.478	12.082	13.028
868	ENSG00000146826	C7orf43	-1.2	0.0067584	0.026738	8.405	0.490	8.119	8.971	10.341	0.886	9.447	11.219
869	ENSG00000122783	C7orf49	1.3	8.094E-07	1.595E-05	14.233	0.947	13.485	15.299	10.977	0.381	10.699	11.412
870	ENSG00000146540	C7orf50	1.1	0.0173941	0.0565752	21.064	1.367	20.029	22.614	19.418	0.606	19.042	20.117
871	ENSG00000243317	C7orf73	1.1	0.033794	0.0944723	34.736	1.458	33.123	35.962	32.888	0.956	32.263	33.989
872	ENSG00000182307	C8orf33	-1.2	1.081E-05	0.0001425	36.025	1.132	35.054	37.268	44.197	2.030	42.158	46.218
873	ENSG00000241852	C8orf58	1.2	0.0174938	0.0567458	8.976	0.159	8.813	9.131	7.727	1.232	6.412	8.855
874	ENSG00000253250	C8orf88	1.2	0.0056346	0.0232493	71.034	3.362	68.416	74.826	62.440	4.367	59.131	67.389
875	ENSG00000160345	C9orf116	-1.2	0.0889312	0.1963055	4.027	0.264	3.723	4.201	4.974	0.512	4.387	5.332
876	ENSG00000204711	C9orf135	2.3	3.82E-12	3.545E-10	23.082	1.505	22.178	24.819	10.422	1.121	9.293	11.535
877	ENSG00000171159	C9orf16	-1.2	0.0051403	0.021594	38.836	3.174	35.468	41.773	46.188	4.347	41.395	49.875
878	ENSG00000148120	C9orf3	1.4	0.000291	0.0021585	2.501	0.413	2.034	2.819	1.842	0.092	1.762	1.942
879	ENSG00000147894	C9orf72	-1.1	0.0732822	0.1697141	24.143	0.936	23.104	24.921	26.626	2.533	24.773	29.512
880	ENSG00000063180	CA11	1.2	1.025E-05	0.0001362	105.696	10.759	93.425	113.516	87.868	4.656	82.679	91.683
881	ENSG00000074410	CA12	-1.2	0.0420778	0.1111797	1.202	0.127	1.071	1.324	1.523	0.163	1.415	1.711
882	ENSG00000185015	CA13	1.2	0.1038317	0.2191297	1.349	0.114	1.229	1.455	1.125	0.097	1.019	1.208
883	ENSG00000164879	CA3	1.6	0.0833434	0.1873703	0.813	0.165	0.639	0.967	0.535	0.225	0.403	0.795
884	ENSG00000168748	CA7	-1.4	0.0285207	0.0830242	1.963	0.416	1.507	2.320	2.848	0.255	2.599	3.108
885	ENSG00000178538	CA8	-1.3	0.00584	0.0239043	3.943	0.647	3.375	4.647	5.063	0.425	4.726	5.541
886	ENSG00000107159	CA9	1.5	0.1175725	0.2394057	1.123	0.182	0.973	1.326	0.764	0.096	0.656	0.837
887	ENSG00000135932	CAB39	1.1	0.0049999	0.0211514	58.252	2.174	56.964	60.761	54.335	1.062	53.109	54.973
888	ENSG00000134508	CABLES1	1.4	5.881E-08	1.712E-06	10.393	0.453	10.102	10.915	7.490	0.392	7.165	7.925
889	ENSG00000149679	CABLES2	-1.1	0.0919241	0.2012979	8.989	0.494	8.465	9.447	10.294	0.866	9.392	11.119
890	ENSG00000154040	CABYR	1.2	0.0003971	0.0027832	15.972	1.179	14.689	17.008	13.188	0.861	12.669	14.182
891	ENSG00000158966	CACHD1	-1.2	1.081E-06	2.044E-05	28.126	2.221	26.745	30.689	35.679	2.105	33.298	37.294
893	ENSG00000141837	CACNA1A	-1.4	7.75E-05	0.0007343	0.676	0.094	0.568	0.743	0.943	0.043	0.897	0.982
895	ENSG00000148408	CACNA1B	1.3	0.005681	0.0233834	2.972	0.377	2.544	3.252	2.421	0.317	2.074	2.694
896	ENSG00000256271	CACNA1C-AS2	1.6	0.0430057	0.112994	4.863	0.465	4.403	5.334	3.040	0.497	2.466	3.339
897	ENSG00000102001	CACNA1F	-1.2	0.1153181	0.2359354	2.031	0.081	1.939	2.090	2.418	0.410	2.152	2.891
898	ENSG00000006283	CACNA1G	-1.5	0.0006454	0.0041161	1.114	0.059	1.049	1.166	1.702	0.456	1.220	2.126
899	ENSG00000196557	CACNA1H	-1.4	1.385E-07	3.621E-06	12.764	0.377	12.361	13.107	17.747	1.601	15.901	18.749
900	ENSG00000007402	CACNA2D2	1.4	3.348E-09	1.441E-07	28.430	2.466	25.666	30.403	21.281	0.744	20.432	21.820
901	ENSG00000167535	CACNB3	1.4	7.906E-05	0.0007466	5.177	0.263	4.892	5.411	3.900	0.293	3.593	4.176
902	ENSG00000182389	CACNB4	-1.5	3.271E-05	0.0003578	0.411	0.051	0.353	0.452	0.636	0.077	0.565	0.718
903	ENSG00000105605	CACNG7	-1.2	0.000379	0.0026763	59.161	1.393	57.634	60.362	69.633	2.383	67.291	72.055
905	ENSG00000142408	CACNG8	-1.4	2.48E-07	5.957E-06	4.442	0.243	4.241	4.712	6.457	0.189	6.258	6.634
906	ENSG00000116161	CACYBP	1	0.1069486	0.2238365	69.748	1.117	68.924	71.019	68.017	2.824	65.423	71.025

	A	B	C	D	E	F	G	H	I	J	K	L	M
907	ENSG00000084774	CAD	-1.1	0.0002002	0.001598	63.921	3.613	59.973	67.064	74.057	4.899	69.503	79.239
908	ENSG00000175161	CADM2	-1.4	5.75E-07	1.211E-05	5.100	0.426	4.792	5.587	7.330	0.578	6.731	7.885
909	ENSG00000162706	CADM3	-1.1	0.1046316	0.22032	5.763	0.309	5.450	6.068	6.614	0.017	6.594	6.627
910	ENSG00000105767	CADM4	1.2	4.689E-05	0.0004862	46.027	2.996	43.979	49.466	38.436	2.915	35.610	41.432
911	ENSG00000081803	CADPS2	1.4	1.843E-07	4.66E-06	30.892	3.305	27.587	34.197	23.212	1.981	20.932	24.503
912	ENSG00000270419	CAHM	-1.5	0.0268427	0.0791319	3.968	1.246	2.638	5.108	5.998	1.187	4.680	6.982
914	ENSG00000104327	CALB1	1.3	0.0001746	0.0014298	5.391	0.462	5.067	5.920	4.298	0.226	4.122	4.553
916	ENSG00000172137	CALB2	-1.4	0.029286	0.0846835	2.376	0.391	1.925	2.603	3.504	1.033	2.646	4.651
917	ENSG00000175868	CALCB	1.6	5.411E-05	0.0005457	3.210	0.130	3.077	3.338	1.995	0.151	1.907	2.170
918	ENSG00000012822	CALCOCO1	1.2	0.0002824	0.0021107	7.596	0.037	7.566	7.638	6.224	0.807	5.364	6.964
919	ENSG00000064989	CALCRL	1.3	0.0052847	0.0220255	3.256	0.453	2.740	3.589	2.534	0.376	2.250	2.961
920	ENSG00000122786	CALD1	1.5	5.60E-16	1.33E-13	111.985	7.063	107.270	120.105	73.982	3.956	70.526	78.298
921	ENSG00000198668	CALM1	1.1	0.020052	0.0631588	103.445	3.144	101.283	107.051	99.376	3.415	95.562	102.149
923	ENSG00000179218	CALR	1.2	1.395E-06	2.511E-05	569.803	16.738	553.891	587.260	501.377	21.171	482.644	524.346
924	ENSG00000183049	CAMK1D	-1.2	0.0010729	0.0062334	3.782	0.348	3.387	4.047	4.797	0.211	4.628	5.034
925	ENSG00000145349	CAMK2D	1.3	7.587E-07	1.522E-05	14.676	1.004	13.780	15.761	11.403	0.895	10.377	12.023
926	ENSG00000148660	CAMK2G	-1.1	0.007594	0.0046634	18.229	0.351	18.021	18.634	21.327	0.535	20.992	21.943
927	ENSG00000162545	CAMK2N1	-1.2	0.1022164	0.1665041	6.813	0.809	5.925	7.509	8.015	0.535	7.483	8.553
928	ENSG00000152495	CAMK4	1.1	0.0713957	0.1662559	1.750	0.038	1.709	1.784	1.558	0.183	1.392	1.754
929	ENSG00000110931	CAMKK2	1.3	2.093E-06	3.533E-05	24.393	0.962	23.283	24.982	19.726	2.024	18.131	22.003
930	ENSG00000143919	CAMKMT	1.2	0.006242	0.025118	10.852	0.684	10.210	11.572	9.320	0.909	8.280	9.962
931	ENSG00000164076	CAMKV	-1.4	3.343E-10	1.885E-08	28.133	1.120	26.841	28.842	40.533	2.913	37.314	42.990
932	ENSG00000164615	CAMLG	-1.3	4.015E-07	8.959E-06	59.056	4.467	55.811	64.150	76.964	1.307	75.797	78.376
933	ENSG00000130559	CAMSAP1	-1.1	0.013814	0.0472757	18.425	0.436	18.036	18.896	20.508	0.702	19.775	21.174
934	ENSG00000118200	CAMSAP2	1.1	0.1057011	0.2217914	29.864	0.318	29.521	30.148	28.944	1.691	27.757	30.880
935	ENSG00000076826	CAMSAP3	-1.4	4.794E-07	1.044E-05	7.673	0.153	7.503	7.801	11.166	1.294	10.299	12.654
936	ENSG00000108509	CAMTA2	-1.2	0.0079144	0.030401	4.658	0.298	4.433	4.996	5.794	0.676	5.333	6.570
937	ENSG00000111530	CAND1	-1	0.06471	0.1542488	62.940	0.164	62.775	63.102	67.370	1.970	65.100	68.630
938	ENSG00000127022	CANX	1.1	0.0017206	0.0090572	307.400	12.737	297.564	321.787	289.044	3.446	286.058	292.815
939	ENSG00000131236	CAP1	1.1	0.0015957	0.008511	185.756	6.788	177.950	190.272	174.160	3.235	170.528	176.732
940	ENSG00000112186	CAP2	-1.1	0.0237161	0.0720065	17.850	0.490	17.369	18.349	20.286	0.514	19.953	20.878
941	ENSG00000042493	CAPG	-1.1	0.0263669	0.0780578	63.733	1.232	62.904	65.149	70.332	1.881	68.304	72.020
942	ENSG00000142330	CAPN10	-1.2	0.0037858	0.0169657	8.652	0.611	8.093	9.304	10.333	0.922	9.496	11.321
943	ENSG00000162949	CAPN13	1.7	7.023E-07	1.426E-05	3.634	0.235	3.472	3.903	2.177	0.136	2.090	2.334
944	ENSG00000103326	CAPN15	-1.1	0.0024609	0.0120085	16.614	0.057	16.565	16.676	19.446	1.915	18.102	21.638
945	ENSG00000149260	CAPN5	-1.1	0.0253289	0.0757137	8.369	0.571	7.715	8.771	9.621	0.797	8.742	10.298
946	ENSG00000131375	CAPN7	1.1	0.0580786	0.1421906	23.760	1.247	22.629	25.098	22.479	0.766	21.722	23.253
947	ENSG00000135387	CAPRIN1	-1.1	0.0014387	0.0078211	198.617	1.676	197.583	200.551	219.552	1.484	218.255	221.170
948	ENSG00000110888	CAPRIN2	1.9	7.91E-21	6.37E-18	64.723	3.259	62.307	68.430	35.131	1.696	34.124	37.088
949	ENSG00000100065	CARD10	1.2	0.0003257	0.0023598	11.804	0.801	10.998	12.600	9.824	0.904	8.903	10.709
950	ENSG00000198286	CARD11	1.2	3.689E-05	0.0003966	22.444	0.865	21.492	23.180	18.973	0.994	17.981	19.969
951	ENSG00000138380	CARF	1.1	0.0794762	0.1804028	5.012	0.370	4.642	5.383	4.601	0.305	4.365	4.945

	A	B	C	D	E	F	G	H	I	J	K	L	M
953	ENSG00000153048	CARHSP1	-1.2	2.16E-05	0.000254	69.844	1.896	67.720	71.366	82.738	5.387	76.546	86.346
954	ENSG00000079691	CARMIL1	-1.1	0.0052916	0.022049	22.540	0.483	22.110	23.062	25.541	1.135	24.303	26.534
955	ENSG00000186648	CARMIL3	-1.2	0.0283159	0.0825712	2.778	0.132	2.682	2.928	3.422	0.492	2.854	3.728
956	ENSG00000156017	CARNMT1	1.2	0.0007075	0.0044091	30.633	0.648	30.234	31.381	27.066	1.223	25.670	27.947
957	ENSG00000172508	CARNS1	-1.6	0.0076957	0.0297094	0.488	0.040	0.443	0.521	0.814	0.163	0.662	0.986
959	ENSG00000110619	CARS	1.4	1.00E-13	1.40E-11	28.866	0.418	28.390	29.174	20.584	1.346	19.124	21.776
960	ENSG00000134905	CARS2	1.1	0.0162651	0.0537918	7.449	0.417	6.987	7.797	6.692	0.580	6.072	7.222
961	ENSG00000108349	CASC3	-1.1	0.0563787	0.1391002	62.552	2.648	59.613	64.755	67.715	1.387	66.433	69.187
962	ENSG00000127995	CASD1	-1.1	0.0963753	0.2077857	24.469	0.849	23.628	25.325	26.884	1.933	25.014	28.875
963	ENSG00000147044	CASK	-1.1	0.0013418	0.0074089	31.881	0.748	31.314	32.729	35.878	0.836	35.296	36.836
964	ENSG00000167971	CASKIN1	-1.2	0.057765	0.1416323	2.500	0.464	2.032	2.960	3.056	0.380	2.743	3.479
965	ENSG00000177303	CASKIN2	-1.2	0.0144564	0.0490276	7.998	0.581	7.531	8.648	9.433	0.878	8.588	10.341
966	ENSG00000106144	CASP2	1.2	0.0009445	0.0055817	11.028	0.939	9.960	11.722	9.527	0.484	9.010	9.967
967	ENSG00000164305	CASP3	1.2	1.101E-06	2.073E-05	114.805	5.199	110.210	120.448	97.916	5.056	93.533	103.448
968	ENSG00000138794	CASP6	1.1	0.0131368	0.0453989	37.124	0.542	36.499	37.462	33.603	1.173	32.922	34.958
969	ENSG00000064012	CASP8	1.2	0.006694	0.0265535	3.292	0.108	3.168	3.366	2.693	0.220	2.442	2.852
970	ENSG00000118412	CASP8AP2	1.1	0.0472564	0.1216326	16.093	0.927	15.034	16.756	14.951	0.373	14.624	15.357
971	ENSG00000153113	CAST	1.2	7.499E-07	1.51E-05	16.773	1.213	15.407	17.725	13.872	0.375	13.594	14.298
972	ENSG00000274070	CASTOR2	-1.3	0.0932563	0.2030699	3.884	0.543	3.470	4.498	5.015	0.758	4.196	5.694
973	ENSG00000130940	CASZ1	-1.1	0.1180627	0.2400898	1.577	0.158	1.395	1.669	1.828	0.079	1.740	1.890
974	ENSG00000121691	CAT	1.2	0.0018398	0.0095364	26.701	1.796	24.879	28.471	23.569	0.526	23.061	24.112
975	ENSG00000133962	CATSPERB	-1.5	0.066172	0.1570099	0.405	0.093	0.318	0.502	0.606	0.095	0.527	0.711
976	ENSG00000099338	CATSPERG	-1.6	0.0056531	0.0233013	0.392	0.059	0.337	0.454	0.638	0.194	0.472	0.851
977	ENSG00000105974	CAV1	1.4	0.0007893	0.0048177	7.833	1.917	6.132	9.910	5.671	0.405	5.364	6.130
978	ENSG00000105971	CAV2	1.7	2.196E-06	3.667E-05	2.352	0.181	2.218	2.558	1.395	0.210	1.197	1.614
979	ENSG00000177469	CAVIN1	1.3	9.791E-08	2.684E-06	85.852	8.183	76.407	90.800	67.183	3.161	64.174	70.478
980	ENSG00000170955	CAVIN3	-1.2	0.047477	0.1220146	10.512	0.438	10.073	10.950	12.550	1.431	11.079	13.937
982	ENSG00000067955	CBFB	1.2	1.542E-05	0.0001904	34.379	0.950	33.326	35.173	29.164	1.161	27.992	30.314
983	ENSG00000142273	CBLC	-1.3	0.0001799	0.001468	21.015	1.633	19.169	22.269	27.834	2.143	25.366	29.220
984	ENSG00000102924	CBLN1	-1.6	0.0020932	0.0105238	1.542	0.179	1.366	1.723	2.497	0.177	2.351	2.694
985	ENSG00000139899	CBLN3	-1.5	0.0738873	0.1705782	0.811	0.366	0.519	1.221	1.264	0.179	1.099	1.455
986	ENSG00000159228	CBR1	1.4	2.53E-12	2.531E-10	109.848	2.434	108.121	112.632	81.187	4.719	75.811	84.647
987	ENSG00000159231	CBR3	1.4	0.1231445	0.2476587	2.154	0.458	1.643	2.526	1.549	0.198	1.328	1.713
988	ENSG00000145439	CBR4	1.1	0.0017639	0.0092248	40.150	1.858	38.024	41.459	36.776	0.723	36.207	37.590
989	ENSG00000160200	CBS	1.1	0.0093827	0.0345771	70.219	1.813	68.332	71.948	66.551	2.856	63.253	68.232
990	ENSG00000274276	CBSL	1.1	0.0013129	0.0072824	112.023	3.184	108.391	114.331	103.953	4.219	99.094	106.694
991	ENSG00000172785	CBWD1	1.1	0.0175429	0.0568534	8.881	0.205	8.720	9.112	8.189	0.206	7.998	8.406
992	ENSG00000136682	CBWD2	1.1	0.0107931	0.0387815	12.656	0.283	12.342	12.894	11.635	0.290	11.454	11.970
993	ENSG00000147996	CBWD5	1.1	0.0143924	0.0488598	4.745	0.017	4.726	4.758	4.270	0.123	4.128	4.355
994	ENSG00000215126	CBWD6	1.1	0.0303653	0.0870456	5.047	0.134	4.910	5.177	4.599	0.158	4.472	4.776
995	ENSG00000173894	CBX2	-1.1	0.0950801	0.2059927	59.821	5.013	54.156	63.686	65.275	5.910	58.603	69.853

	A	B	C	D	E	F	G	H	I	J	K	L	M
996	ENSG00000122565	CBX3	1	0.1028085	0.2174588	191.122	4.266	187.828	195.941	186.860	4.474	183.971	192.014
997	ENSG00000094916	CBX5	-1.3	9.38E-12	8.056E-10	86.576	2.110	84.145	87.927	111.721	3.710	107.908	115.317
998	ENSG00000100307	CBX7	1.2	0.006433	0.0257212	8.378	0.085	8.297	8.467	7.376	0.392	7.024	7.798
999	ENSG00000100211	CBY1	1.2	0.0010188	0.0059641	23.698	1.947	21.834	25.718	19.860	0.404	19.517	20.305
1000	ENSG00000132024	CC2D1A	-1.1	0.0125958	0.04387	14.307	0.998	13.156	14.924	16.720	0.921	15.810	17.652
1001	ENSG00000060339	CCAR1	-1.1	5.555E-05	0.0005579	60.390	3.549	57.514	64.355	70.954	4.078	68.589	75.662
1002	ENSG00000158941	CCAR2	-1.1	0.0776533	0.1773047	53.271	2.556	50.345	55.066	57.365	1.853	55.297	58.873
1003	ENSG00000183287	CCBE1	-1.7	2.726E-09	1.191E-07	4.683	0.688	4.281	5.477	7.998	0.818	7.060	8.561
1004	ENSG00000164221	CCDC112	1.2	0.0035811	0.0162452	20.494	0.861	19.662	21.381	17.495	1.332	15.978	18.470
1005	ENSG00000103021	CCDC113	1.2	0.0001938	0.0015568	13.013	0.464	12.737	13.549	10.979	0.410	10.615	11.424
1006	ENSG00000105479	CCDC114	-1.3	0.0474445	0.1219907	1.516	0.089	1.442	1.615	2.069	0.348	1.747	2.437
1007	ENSG00000159873	CCDC117	-1.2	2.527E-05	0.0002899	63.390	0.466	62.867	63.761	75.005	3.027	72.373	78.313
1008	ENSG00000147144	CCDC120	1.1	0.0275168	0.0806432	6.601	0.115	6.469	6.668	5.876	0.290	5.555	6.117
1009	ENSG00000151773	CCDC122	1.2	0.056441	0.1391867	4.495	0.217	4.246	4.645	3.971	0.212	3.749	4.170
1010	ENSG00000007080	CCDC124	-1.2	0.0005937	0.0038517	66.327	2.247	64.080	68.575	78.889	4.101	74.188	81.734
1011	ENSG00000183323	CCDC125	1.1	0.122477	0.2466604	3.710	0.208	3.558	3.946	3.375	0.274	3.093	3.640
1012	ENSG00000100147	CCDC134	-1.2	0.0228797	0.0700459	9.990	0.431	9.620	10.463	12.643	0.462	12.228	13.141
1013	ENSG00000163006	CCDC138	1.2	0.0072234	0.0281951	13.204	0.171	13.042	13.382	11.635	0.833	11.085	12.593
1014	ENSG00000163492	CCDC141	1.2	0.0480959	0.1232493	0.991	0.206	0.841	1.226	0.823	0.065	0.754	0.884
1015	ENSG00000135637	CCDC142	-1.4	0.0364504	0.0998033	1.088	0.600	0.700	1.779	1.602	0.163	1.431	1.757
1016	ENSG00000154874	CCDC144B	1.3	0.0549329	0.1365732	0.814	0.107	0.700	0.912	0.647	0.103	0.541	0.746
1017	ENSG00000181982	CCDC149	-1.2	0.0333851	0.09367	1.675	0.245	1.465	1.944	2.060	0.171	1.864	2.177
1018	ENSG00000149548	CCDC15	1.2	0.0216295	0.0670615	3.430	0.266	3.124	3.614	2.818	0.097	2.756	2.930
1019	ENSG00000144395	CCDC150	-1.1	0.0127351	0.0442369	5.359	0.236	5.201	5.630	6.247	0.232	5.982	6.411
1020	ENSG00000256304	CCDC150P1	1.2	0.0290295	0.0841432	9.697	0.716	8.871	10.132	8.176	1.423	6.567	9.267
1021	ENSG00000198865	CCDC152	1.1	0.0050551	0.0213155	23.875	0.987	22.736	24.486	21.454	0.815	20.695	22.315
1022	ENSG00000183401	CCDC159	-1.4	0.0353936	0.0977197	0.887	0.256	0.618	1.127	1.294	0.018	1.273	1.308
1023	ENSG00000242715	CCDC169	1.2	0.0012144	0.0068674	7.982	0.810	7.300	8.877	6.619	0.755	5.922	7.422
1024	ENSG00000159588	CCDC17	-2	0.0014389	0.0078211	0.550	0.066	0.493	0.622	1.115	0.142	0.954	1.224
1025	ENSG00000182645	CCDC172	-1.3	0.0956571	0.2068626	3.363	0.639	2.659	3.908	4.347	0.565	3.758	4.884
1026	ENSG00000154781	CCDC174	-1.1	0.0253765	0.075829	13.899	0.496	13.378	14.366	16.042	0.498	15.701	16.614
1027	ENSG00000122483	CCDC18	1.2	0.0013813	0.0075752	16.151	1.052	15.076	17.179	13.586	1.310	12.078	14.428
1028	ENSG00000165813	CCDC186	-1.2	0.0001044	0.0009348	11.839	0.071	11.798	11.922	14.622	0.575	14.020	15.165
1029	ENSG00000147419	CCDC25	1.1	0.0937934	0.2040031	50.531	0.318	50.346	50.897	48.945	1.771	47.823	50.987
1030	ENSG00000186409	CCDC30	1.3	0.1005269	0.213917	0.459	0.038	0.416	0.487	0.365	0.073	0.313	0.449
1031	ENSG00000140481	CCDC33	-1.4	0.0075878	0.0293503	0.838	0.199	0.648	1.045	1.224	0.070	1.157	1.297
1032	ENSG00000145075	CCDC39	1.4	0.114964	0.2355422	0.558	0.075	0.484	0.634	0.406	0.213	0.262	0.651
1033	ENSG00000152492	CCDC50	1.1	0.0056861	0.023393	19.036	0.919	18.319	20.072	17.496	0.668	16.725	17.882
1034	ENSG00000164051	CCDC51	-1.2	0.004169	0.0183575	15.961	1.094	14.713	16.753	19.272	0.748	18.430	19.858
1035	ENSG00000176155	CCDC57	-1.2	0.0258843	0.0769626	1.239	0.286	0.953	1.526	1.577	0.251	1.413	1.867
1036	ENSG00000160124	CCDC58	-1.1	0.0055672	0.0229936	52.010	1.243	51.226	53.443	60.005	2.866	57.254	62.974

	A	B	C	D	E	F	G	H	I	J	K	L	M
1038	ENSG00000108091	CCDC6	-1.2	2.174E-06	3.633E-05	35.145	1.421	33.621	36.434	42.397	0.656	41.875	43.133
1039	ENSG00000104983	CCDC61	-1.3	0.0005952	0.0038596	8.245	1.159	7.022	9.326	11.265	0.639	10.801	11.994
1040	ENSG00000180376	CCDC66	1.1	0.0356126	0.0980811	9.352	0.359	8.939	9.581	8.628	0.492	8.061	8.928
1042	ENSG00000177352	CCDC71	-1.2	0.0162591	0.0537912	17.967	1.273	16.497	18.738	21.436	2.022	19.865	23.718
1043	ENSG00000253276	CCDC71L	1.1	0.019801	0.0625035	9.731	0.597	9.042	10.083	8.653	0.488	8.110	9.054
1044	ENSG00000163040	CCDC74A	1.3	0.0001855	0.0015025	10.223	0.621	9.669	10.894	7.915	0.474	7.369	8.217
1045	ENSG00000162004	CCDC78	-1.3	0.0321582	0.091148	1.999	0.439	1.581	2.457	2.648	0.157	2.495	2.809
1046	ENSG00000149231	CCDC82	1.1	0.0272479	0.0800911	11.678	0.434	11.424	12.180	10.666	0.925	9.704	11.548
1047	ENSG00000186166	CCDC84	1.1	0.0567772	0.139676	9.289	0.143	9.149	9.435	8.493	0.479	8.092	9.023
1048	ENSG00000205476	CCDC85C	-1.1	0.0082153	0.0312306	5.506	0.301	5.191	5.791	6.352	0.592	5.719	6.893
1049	ENSG00000168071	CCDC88B	-1.2	0.0092101	0.0340333	5.002	0.283	4.735	5.299	5.938	0.373	5.509	6.186
1051	ENSG00000015133	CCDC88C	-1.1	0.0003006	0.0022162	14.452	0.477	14.078	14.989	16.954	1.284	15.589	18.137
1052	ENSG00000137500	CCDC90B	1.2	0.0001571	0.0013087	32.057	3.134	29.475	35.544	27.924	1.107	26.662	28.730
1054	ENSG00000125633	CCDC93	-1.1	0.0675395	0.1594494	16.090	0.636	15.388	16.626	17.647	0.818	16.984	18.561
1056	ENSG00000108691	CCL2	-1.4	0.1055812	0.2216328	1.268	0.075	1.189	1.339	1.784	0.308	1.429	1.969
1058	ENSG00000006606	CCL26	-1.2	0.0912278	0.2003821	9.786	1.536	8.230	11.300	12.272	1.669	10.412	13.638
1060	ENSG00000136280	CCM2	1.2	0.0020994	0.0105426	8.487	0.329	8.107	8.683	7.439	0.260	7.194	7.712
1061	ENSG00000133101	CCNA1	-1.3	0.061622	0.1485268	2.388	0.423	2.031	2.856	3.214	0.830	2.329	3.975
1063	ENSG00000145386	CCNA2	-1.1	0.000183	0.0014869	197.027	3.372	193.625	200.368	228.544	14.061	219.283	244.724
1064	ENSG00000134057	CCNB1	-1.2	2.562E-07	6.129E-06	338.198	27.317	311.017	365.649	420.869	15.977	410.501	439.269
1065	ENSG00000100814	CCNB1IP1	1.2	1.162E-08	4.264E-07	170.235	6.799	162.386	174.285	141.711	3.455	139.263	145.663
1066	ENSG00000157456	CCNB2	-1.1	0.0032351	0.0149698	153.980	3.887	150.208	157.972	172.573	3.147	169.409	175.703
1067	ENSG00000110092	CCND1	1.3	6.915E-07	1.409E-05	114.652	12.446	101.212	125.778	90.727	3.457	87.175	94.080
1068	ENSG00000112576	CCND3	-1.1	0.0254828	0.076066	8.358	0.413	7.914	8.731	9.684	0.962	8.833	10.729
1069	ENSG00000175305	CCNE2	1.4	0.0002692	0.0020283	4.010	0.362	3.694	4.405	2.899	0.167	2.739	3.073
1070	ENSG00000162063	CCNF	-1.3	5.38E-07	1.152E-05	22.134	0.792	21.647	23.048	28.726	2.681	26.265	31.582
1071	ENSG00000113328	CCNG1	1.1	3.205E-05	0.0003529	961.384	51.805	915.276	1017.442	865.322	31.148	835.387	897.556
1073	ENSG00000138764	CCNG2	-1.1	0.0030528	0.0143026	10.170	0.406	9.921	10.639	11.846	0.440	11.433	12.309
1074	ENSG00000134480	CCNH	-1.1	0.0453906	0.1179431	17.842	0.058	17.786	17.901	19.889	0.801	19.332	20.807
1075	ENSG00000118816	CCNI	-1.1	0.0007287	0.0045164	176.207	5.821	170.338	181.979	198.185	7.690	189.340	203.289
1076	ENSG00000163660	CCNL1	-1.1	0.0106437	0.0383341	30.143	0.266	29.837	30.312	33.707	0.318	33.341	33.917
1077	ENSG00000221978	CCNL2	-1.2	2.54E-07	6.085E-06	30.790	0.831	30.145	31.727	38.629	1.268	37.884	40.093
1080	ENSG00000163249	CCNYL1	1.1	0.0741343	0.1710084	31.719	1.759	29.689	32.800	30.332	0.458	29.987	30.852
1082	ENSG00000103540	CCP110	-1.1	0.0211479	0.0659222	14.127	1.094	13.192	15.329	16.013	1.352	14.516	17.146
1085	ENSG00000184305	CCSER1	-1.7	0.0046754	0.0200903	0.260	0.035	0.227	0.297	0.449	0.095	0.343	0.525
1086	ENSG00000107771	CCSER2	1.2	0.000621	0.0039917	12.143	0.382	11.708	12.426	10.642	0.805	9.821	11.431
1087	ENSG00000166226	CCT2	-1.1	0.0007097	0.0044142	198.121	0.586	197.590	198.750	221.838	6.126	215.055	226.969
1088	ENSG00000163468	CCT3	-1.2	4.759E-08	1.435E-06	259.080	1.450	258.122	260.748	310.030	4.806	304.492	313.111
1089	ENSG00000115484	CCT4	-1.2	2.297E-09	1.033E-07	384.093	6.115	377.146	388.665	473.806	11.792	460.795	483.787
1090	ENSG00000146731	CCT6A	-1.2	1.642E-06	2.861E-05	270.826	8.734	263.159	280.333	319.123	7.763	310.227	324.533
1091	ENSG00000132141	CCT6B	1.2	0.1131016	0.232853	3.042	0.225	2.793	3.231	2.656	0.165	2.503	2.831
1092	ENSG00000156261	CCT8	-1.1	0.0014115	0.0077086	355.126	7.108	347.112	360.668	394.846	4.398	390.993	399.637
1093	ENSG00000226015	CCT8P1	-1.1	0.0690269	0.1621012	20.167	0.135	20.048	20.314	23.264	1.402	22.208	24.855

	A	B	C	D	E	F	G	H	I	J	K	L	M
1095	ENSG00000156535	CD109	1.1	0.0790895	0.1799684	6.251	0.477	5.702	6.566	5.784	0.265	5.626	6.090
1097	ENSG00000177697	CD151	1.1	0.0388248	0.1044945	50.990	2.025	49.152	53.161	47.999	2.462	46.416	50.836
1098	ENSG00000135535	CD164	1.1	0.0004771	0.0032199	81.909	1.008	80.982	82.982	74.786	3.441	71.067	77.858
1099	ENSG00000174950	CD164L2	-1.4	0.0230453	0.0704309	2.733	0.952	1.882	3.762	3.980	0.487	3.576	4.521
1100	ENSG00000204936	CD177	-1.5	0.0226919	0.0696025	1.145	0.185	1.034	1.358	1.759	0.226	1.601	2.018
1101	ENSG00000177455	CD19	-1.5	0.0191228	0.0608398	1.403	0.394	0.980	1.759	2.091	0.328	1.847	2.463
1102	ENSG00000158473	CD1D	-1.2	0.1139206	0.2338844	3.834	0.282	3.571	4.131	4.736	0.609	4.165	5.377
1103	ENSG00000174807	CD248	2	1.871E-05	0.0002249	3.419	0.799	2.597	4.193	1.782	0.266	1.566	2.079
1105	ENSG00000185275	CD24P4	-1.1	0.0998029	0.212939	930.647	83.315	835.542	990.756	1012.150	61.842	961.488	1081.065
1107	ENSG00000167851	CD300A	-3.4	0.0009684	0.0057107	0.203	0.178	0.000	0.333	0.708	0.238	0.559	0.983
1108	ENSG00000241399	CD302	1.3	0.0506353	0.1282719	2.761	0.407	2.303	3.082	2.255	0.449	1.829	2.725
1109	ENSG00000004468	CD38	2.4	7.93E-05	0.0007484	0.670	0.040	0.630	0.711	0.289	0.110	0.205	0.414
1110	ENSG00000117877	CD3EAP	1.1	0.0148283	0.0499783	18.685	0.887	18.037	19.696	16.911	0.309	16.570	17.174
1111	ENSG0000010610	CD4	-1.3	0.000758	0.0046597	5.647	0.610	5.187	6.339	7.538	0.922	6.709	8.531
1112	ENSG00000196776	CD47	1.1	0.0492231	0.1256051	13.277	0.529	12.698	13.735	12.347	1.086	11.589	13.592
1113	ENSG00000143119	CD53	1.9	0.0122401	0.0429325	1.424	0.072	1.349	1.492	0.761	0.449	0.481	1.278
1114	ENSG00000085063	CD59	1.1	0.0006146	0.0039586	53.478	2.423	51.535	56.193	48.394	0.409	48.020	48.831
1115	ENSG00000135404	CD63	1.4	8.34E-16	1.86E-13	313.582	8.876	305.100	322.805	224.691	5.033	221.713	230.501
1116	ENSG00000137101	CD72	-1.2	0.0475206	0.1220897	3.602	0.396	3.183	3.971	4.502	0.614	3.899	5.126
1118	ENSG0000019582	CD74	1.1	0.004437	0.0192763	28.993	1.532	27.467	30.532	25.935	1.697	24.058	27.360
1119	ENSG00000085117	CD82	-1.2	0.0387139	0.1042293	4.884	0.063	4.844	4.956	5.858	0.499	5.310	6.288
1120	ENSG00000112149	CD83	1.4	0.0012326	0.0069444	7.900	1.253	7.020	9.334	5.964	0.741	5.125	6.530
1121	ENSG0000010278	CD9	1.1	0.035457	0.097784	87.807	4.794	82.689	92.194	83.879	4.167	79.068	86.288
1122	ENSG00000002586	CD99	1.2	0.0003682	0.002611	40.230	1.519	39.197	41.974	34.495	0.917	33.438	35.089
1123	ENSG00000223773	CD99P1	1.1	0.0637413	0.1525912	5.321	0.474	4.866	5.812	4.739	0.372	4.425	5.151
1124	ENSG00000158825	CDA	-1.6	7.828E-05	0.0007405	7.689	0.496	7.117	7.978	12.547	1.167	11.264	13.546
1125	ENSG00000140326	CDAN1	-1.2	0.0002106	0.0016617	9.168	0.691	8.701	9.962	11.583	0.718	11.015	12.390
1126	ENSG00000079335	CDC14A	1.2	0.0005175	0.0034519	10.107	0.496	9.554	10.513	8.301	0.673	7.711	9.034
1127	ENSG00000081377	CDC14B	1.2	5.011E-05	0.0005139	21.902	0.148	21.743	22.036	19.411	0.840	18.824	20.373
1128	ENSG00000218305	CDC14C	1.3	0.0827062	0.1861639	4.518	0.298	4.232	4.828	3.665	0.561	3.200	4.288
1129	ENSG00000130177	CDC16	1.2	2.26E-08	7.585E-07	75.994	1.285	74.608	77.147	63.159	0.923	62.503	64.214
1130	ENSG00000117399	CDC20	-1.4	6.13E-15	1.19E-12	204.061	9.872	193.834	213.534	299.842	11.664	287.001	309.781
1131	ENSG00000231007	CDC20P1	-1.3	0.0012462	0.0070117	11.710	0.943	10.778	12.664	15.758	1.801	13.839	17.412
1132	ENSG00000094880	CDC23	-1.1	0.0024396	0.0119114	51.254	0.534	50.651	51.667	58.136	2.122	55.690	59.484
1133	ENSG00000101224	CDC25B	-1.2	8.558E-06	0.0001167	18.015	0.357	17.603	18.242	23.003	1.213	22.211	24.399
1134	ENSG00000004897	CDC27	-1.1	0.0025216	0.0122658	37.798	1.822	36.123	39.738	42.839	2.484	40.293	45.256
1136	ENSG00000099804	CDC34	-1.1	0.0031886	0.0147931	79.447	2.637	77.369	82.413	91.609	5.894	86.766	98.172
1137	ENSG00000105401	CDC37	-1.1	0.0207357	0.0648968	104.155	5.322	98.428	108.949	114.462	3.812	110.614	118.238
1138	ENSG00000168438	CDC40	-1.1	0.119022	0.2413982	22.349	0.720	21.749	23.147	24.394	1.559	22.950	26.046
1139	ENSG00000143776	CDC42BPA	1.3	1.17E-09	5.561E-08	17.328	1.215	15.932	18.142	13.370	0.321	13.027	13.665
1140	ENSG00000128283	CDC42EP1	1.9	7.443E-10	3.814E-08	10.997	0.878	9.985	11.541	6.002	0.487	5.708	6.565
1141	ENSG00000163171	CDC42EP3	1.3	2.969E-07	6.956E-06	15.301	0.437	14.919	15.778	12.413	0.666	11.671	12.958

	A	B	C	D	E	F	G	H	I	J	K	L	M
1144	ENSG00000179604	CDC42EP4	1.2	0.0034989	0.0159378	12.208	1.054	11.205	13.307	10.536	0.483	10.120	11.066
1145	ENSG00000167617	CDC42EP5	-1.3	0.0781055	0.1780801	6.511	1.888	4.417	8.084	8.762	1.345	7.567	10.219
1146	ENSG00000197622	CDC42SE1	-1.1	0.0079541	0.0304657	50.228	1.985	47.956	51.632	56.038	1.137	55.285	57.346
1147	ENSG00000158985	CDC42SE2	1.1	0.0020327	0.010293	26.742	1.044	25.993	27.934	24.271	0.218	24.047	24.483
1148	ENSG00000094804	CDC6	1.1	0.0005617	0.0036794	42.856	2.095	40.689	44.870	38.946	0.694	38.430	39.735
1149	ENSG00000184661	CDCA2	-1.1	0.0001976	0.0015813	41.692	0.224	41.434	41.823	48.700	1.636	47.184	50.433
1150	ENSG00000111665	CDCA3	-1.3	1.855E-07	4.675E-06	15.405	0.514	14.812	15.707	20.266	0.672	19.588	20.931
1151	ENSG00000170779	CDCA4	-1.1	0.1087549	0.2266074	49.870	1.598	48.412	51.579	54.176	2.510	51.416	56.324
1152	ENSG00000146670	CDCA5	-1.2	5.098E-07	1.1E-05	45.967	0.830	45.253	46.878	58.241	4.067	53.771	61.723
1153	ENSG00000144354	CDCA7	1.1	0.0071174	0.0278778	71.815	1.836	69.739	73.222	66.995	3.509	63.039	69.732
1154	ENSG00000164649	CDCA7L	-1	0.0842565	0.1887956	90.024	1.088	88.811	90.912	96.481	1.225	95.692	97.891
1155	ENSG00000134690	CDCA8	-1.1	0.000744	0.004588	79.562	2.355	76.997	81.626	91.401	3.187	87.871	94.067
1156	ENSG00000163814	CDCP1	1.2	0.000458	0.0031186	10.501	0.438	10.097	10.966	8.927	0.290	8.725	9.260
1157	ENSG00000039068	CDH1	-1.2	5.89E-07	1.236E-05	146.492	8.848	139.375	156.398	176.021	5.134	170.642	180.868
1158	ENSG00000140937	CDH11	-1.4	0.0001829	0.0014865	1.332	0.053	1.292	1.392	1.881	0.099	1.788	1.985
1159	ENSG00000139880	CDH24	-1.2	0.0053124	0.0221029	16.361	0.623	15.797	17.029	19.375	2.134	17.366	21.615
1160	ENSG00000179242	CDH4	1.2	0.0364719	0.0998299	5.305	0.799	4.824	6.226	4.684	0.360	4.268	4.893
1161	ENSG00000113361	CDH6	1.7	0.0059719	0.0242969	0.546	0.189	0.429	0.764	0.333	0.136	0.240	0.489
1162	ENSG00000150394	CDH8	-1.1	0.0803009	0.1817381	2.337	0.248	2.175	2.622	2.715	0.259	2.445	2.961
1163	ENSG00000148600	CDHR1	1.3	0.0002041	0.0016189	7.026	0.443	6.519	7.339	5.731	0.586	5.107	6.270
1164	ENSG00000089486	CDIP1	1.1	0.0036556	0.0165094	51.251	1.204	49.950	52.326	47.116	1.785	45.163	48.664
1165	ENSG00000170312	CDK1	-1.2	0.0001061	0.0009471	154.609	8.514	148.909	164.396	197.301	22.578	176.435	221.271
1166	ENSG00000185324	CDK10	-1.1	0.0371764	0.1011363	16.714	0.714	16.034	17.458	18.685	1.225	17.497	19.944
1167	ENSG00000248333	CDK11B	-1.1	0.0332653	0.0933958	44.880	0.959	43.812	45.666	49.510	1.353	47.967	50.494
1168	ENSG00000167258	CDK12	-1.1	0.092084	0.201477	18.327	0.493	17.766	18.692	19.760	0.751	19.050	20.546
1169	ENSG00000102225	CDK16	-1.1	0.0171987	0.0560357	63.334	2.971	59.904	65.061	70.118	3.989	67.788	74.723
1170	ENSG00000059758	CDK17	1.1	0.0073645	0.0286136	16.158	1.111	15.156	17.353	14.650	0.436	14.147	14.907
1171	ENSG00000117266	CDK18	-1.1	0.0424852	0.1118892	18.246	0.919	17.313	19.149	20.326	1.772	19.211	22.369
1172	ENSG00000155111	CDK19	-1.1	0.0354175	0.0977667	8.648	0.524	8.277	9.247	9.891	0.797	9.018	10.581
1173	ENSG00000156345	CDK20	1.2	0.0473134	0.1217421	2.587	0.145	2.425	2.706	2.170	0.287	1.925	2.485
1174	ENSG00000135446	CDK4	1.3	2.33E-11	1.784E-09	122.740	2.641	119.969	125.228	95.890	4.189	91.135	99.033
1175	ENSG00000101391	CDK5RAP1	-1.1	0.0112246	0.039992	22.990	1.339	21.498	24.085	26.123	0.318	25.821	26.456
1176	ENSG00000108465	CDK5RAP3	-1.1	0.0162786	0.0538261	27.978	0.495	27.406	28.276	31.213	1.711	29.502	32.924
1177	ENSG00000105810	CDK6	1.3	9.036E-08	2.497E-06	21.843	1.155	20.882	23.125	17.771	1.087	16.898	18.989
1178	ENSG00000134058	CDK7	-1.1	0.0085024	0.0320127	63.567	1.461	62.036	64.946	71.710	4.498	66.677	75.336
1179	ENSG00000132964	CDK8	-1.1	0.007376	0.0286321	34.484	0.493	33.969	34.951	39.173	0.587	38.538	39.697
1180	ENSG00000136807	CDK9	-1.2	3.183E-06	5.018E-05	36.629	3.230	34.664	40.356	46.373	1.305	45.347	47.841
1181	ENSG00000145996	CDKAL1	-1.1	0.0303171	0.0869809	13.632	0.307	13.443	13.986	15.585	1.008	14.443	16.355
1182	ENSG00000008086	CDKL5	-1.1	0.0823988	0.1857157	6.443	0.042	6.399	6.483	7.054	0.083	6.959	7.112
1183	ENSG00000124762	CDKN1A	-1.3	0.0721109	0.167598	121.037	19.200	109.231	143.191	159.626	38.986	117.366	194.191
1184	ENSG00000129757	CDKN1C	-1.3	5.118E-05	0.0005215	20.199	0.372	19.934	20.624	26.962	2.199	24.652	29.030

	A	B	C	D	E	F	G	H	I	J	K	L	M
1185	ENSG00000237190	CDKN2AIP NL	-1.1	0.0580551	0.1421712	52.353	2.957	49.421	55.335	58.336	2.398	56.613	61.075
1186	ENSG00000147883	CDKN2B	3.9	0.000518	0.0034531	0.365	0.036	0.328	0.400	0.091	0.058	0.041	0.154
1187	ENSG00000129355	CDKN2D	2	0.0014264	0.0077698	2.167	0.443	1.784	2.652	1.094	0.227	0.930	1.353
1188	ENSG00000100526	CDKN3	1.2	0.0002481	0.0018977	68.963	5.102	63.943	74.144	59.513	3.224	55.966	62.264
1189	ENSG00000129596	CDO1	-1.1	0.0283453	0.0826364	24.906	1.569	23.337	26.476	29.079	1.364	28.208	30.651
1190	ENSG00000064309	CDON	-1.2	2.416E-05	0.000279	7.120	0.507	6.606	7.619	9.032	0.438	8.527	9.289
1191	ENSG00000140743	CDR2	-1.1	0.0016449	0.0087346	26.791	0.975	25.680	27.505	31.309	1.109	30.197	32.415
1192	ENSG00000109089	CDR2L	-1.1	0.0170164	0.0556347	17.778	1.096	16.796	18.960	20.443	0.970	19.587	21.496
1193	ENSG00000163624	CDS1	1.1	0.0559661	0.1383353	14.226	1.216	13.503	15.630	13.187	0.788	12.672	14.094
1194	ENSG00000101290	CDS2	1.1	0.0025731	0.0124519	25.857	0.914	24.804	26.447	24.015	0.554	23.378	24.379
1196	ENSG00000167513	CDT1	-1.2	8.397E-06	0.0001149	40.982	3.369	37.796	44.508	51.224	1.355	50.026	52.696
1197	ENSG00000131264	CDX4	1.5	0.0002309	0.0017927	11.047	0.478	10.727	11.597	7.562	1.109	6.710	8.816
1198	ENSG00000153046	CDYL	-1.2	6.808E-06	9.605E-05	77.480	2.238	74.936	79.150	91.667	2.055	89.539	93.639
1199	ENSG00000166446	CDYL2	1.4	0.0022605	0.0111764	1.939	0.210	1.778	2.176	1.469	0.167	1.289	1.619
1200	ENSG00000224039	CDYLP1	-4.8	9.133E-07	1.775E-05	0.576	0.255	0.304	0.810	2.866	0.839	2.360	3.835
1201	ENSG00000079385	CEACAM1	1.4	0.0036515	0.0164995	2.159	0.128	2.019	2.272	1.582	0.180	1.434	1.782
1202	ENSG00000172216	CEBPB	1.5	0.001417	0.007731	18.275	0.674	17.599	18.946	12.867	3.896	8.734	16.471
1203	ENSG00000221869	CEBPD	1.4	0.0725784	0.1684071	3.267	0.854	2.645	4.241	2.466	0.441	1.997	2.872
1204	ENSG00000153879	CEBPG	1.4	5.68E-13	6.40E-11	56.681	0.772	56.202	57.572	41.638	1.089	40.383	42.337
1205	ENSG00000115816	CEBPZ	1.3	2.46E-11	1.862E-09	173.469	6.687	165.871	178.462	137.083	4.566	133.646	142.263
1206	ENSG00000218739	CEBPZOS	-1.2	3.778E-05	0.0004051	99.891	3.499	95.852	102.013	117.564	3.484	115.318	121.577
1207	ENSG00000099954	CECR2	-1.1	0.0002879	0.0021407	45.848	3.076	42.445	48.432	52.512	0.987	51.374	53.117
1208	ENSG00000183307	CECR6	1.2	0.0347258	0.0963765	8.225	1.267	6.932	9.464	7.302	0.250	7.138	7.590
1210	ENSG00000149187	CELF1	-1.1	7.41E-05	0.0007081	74.250	1.407	72.745	75.532	85.843	3.694	81.688	88.758
1211	ENSG00000048740	CELF2	1.4	1.319E-07	3.464E-06	14.063	1.512	12.391	15.332	10.556	0.293	10.231	10.799
1212	ENSG00000161082	CELF5	-1.2	0.002953	0.0138965	5.681	0.811	4.779	6.352	7.200	0.883	6.233	7.966
1213	ENSG00000075275	CELSR1	1.2	0.0007131	0.0044322	9.290	1.237	7.863	10.040	7.869	0.358	7.506	8.222
1214	ENSG00000008300	CELSR3	-1.1	0.0649486	0.1546495	11.834	0.922	10.834	12.652	13.062	0.970	12.499	14.182
1215	ENSG00000184524	CEND1	-1.9	0.0071621	0.0280271	1.047	0.222	0.813	1.254	2.047	0.575	1.417	2.543
1216	ENSG00000115163	CENPA	-1.1	0.0733025	0.1697379	39.379	4.795	36.213	44.897	44.810	5.690	38.296	48.812
1217	ENSG00000145241	CENPC	-1.1	0.0091514	0.0338608	15.597	0.522	15.136	16.165	17.983	2.061	15.696	19.696
1218	ENSG00000138778	CENPE	-1.3	0.0408797	0.1086767	28.197	3.597	25.667	32.315	37.224	2.872	33.908	38.912
1219	ENSG00000117724	CENPF	-1.2	0.0041684	0.0183575	120.497	8.390	115.121	130.165	143.735	6.391	138.574	150.883
1220	ENSG00000102384	CENPI	1.2	0.0001271	0.0011006	17.549	0.632	16.895	18.155	14.913	0.753	14.053	15.449
1221	ENSG00000123219	CENPK	1.2	0.0005076	0.003399	28.252	0.803	27.461	29.066	24.516	1.430	23.590	26.163
1222	ENSG00000120334	CENPL	-1.2	0.0070215	0.0275725	8.861	0.847	8.238	9.825	10.688	0.715	10.248	11.513
1223	ENSG00000100162	CENPM	1.1	0.1110579	0.2300153	24.275	1.560	23.168	26.060	22.630	0.913	21.964	23.671
1224	ENSG00000166451	CENPN	1.1	0.00662	0.0263358	34.702	1.144	33.405	35.569	31.808	1.419	30.683	33.401
1225	ENSG00000188312	CENPP	1.2	0.0094887	0.0349103	4.048	0.439	3.663	4.525	3.441	0.152	3.289	3.593
1226	ENSG00000102901	CENPT	-1.1	0.0054384	0.0225387	14.735	0.491	14.217	15.194	17.260	1.125	16.240	18.466
1227	ENSG00000151725	CENPU	1.1	0.0025266	0.0122793	73.191	2.886	70.381	76.147	66.366	4.811	62.602	71.786

	A	B	C	D	E	F	G	H	I	J	K	L	M
1228	ENSG00000223591	CENPVL1	1.4	0.0472029	0.1215763	3.115	0.515	2.522	3.450	2.309	0.323	1.949	2.575
1229	ENSG00000283093	CENPVL2	1.4	0.0497511	0.1264786	3.016	0.534	2.407	3.404	2.228	0.331	1.872	2.527
1230	ENSG00000203760	CENPW	1.1	0.0313915	0.0894114	121.091	4.251	116.190	123.767	112.268	3.267	110.208	116.035
1231	ENSG00000169689	CENPX	-1.1	0.0141035	0.0480607	43.505	1.284	42.073	44.554	50.055	2.225	47.853	52.303
1232	ENSG00000116198	CEP104	-1.1	0.0518119	0.1304982	9.578	0.241	9.307	9.767	10.674	0.682	10.213	11.458
1233	ENSG00000154240	CEP112	-1.2	0.0312524	0.0890751	2.491	0.059	2.447	2.558	3.050	0.331	2.670	3.274
1234	ENSG00000168944	CEP120	1.2	2.012E-05	0.0002385	20.294	1.129	19.014	21.147	17.108	0.420	16.629	17.413
1235	ENSG00000110318	CEP126	1.2	0.0640317	0.153113	1.598	0.105	1.478	1.673	1.363	0.057	1.298	1.406
1236	ENSG00000141577	CEP131	-1.3	0.0001241	0.0010788	11.490	0.464	11.195	12.025	14.967	0.843	14.097	15.780
1237	ENSG00000103995	CEP152	-1.2	8.825E-05	0.000816	9.086	0.287	8.785	9.357	11.312	0.595	10.895	11.993
1238	ENSG00000143702	CEP170	-1	0.1053125	0.221206	32.060	0.742	31.483	32.897	34.405	0.927	33.578	35.407
1240	ENSG00000099814	CEP170B	-1.1	0.0382954	0.1033658	17.810	0.661	17.405	18.573	19.974	1.696	18.229	21.616
1241	ENSG00000101639	CEP192	-1.1	0.0122478	0.0429498	18.768	0.708	17.952	19.222	20.974	0.467	20.642	21.508
1242	ENSG00000198707	CEP290	1.1	0.0069858	0.0274769	10.537	0.092	10.441	10.624	9.521	0.173	9.403	9.720
1244	ENSG00000135837	CEP350	-1.1	0.0736209	0.1701731	14.831	0.583	14.370	15.486	16.111	0.325	15.735	16.306
1246	ENSG00000106477	CEP41	1.1	0.0358636	0.0986116	2.727	0.122	2.645	2.867	2.443	0.098	2.340	2.534
1247	ENSG00000166037	CEP57	-1.2	2.012E-05	0.0002385	38.642	0.814	37.703	39.114	46.108	1.337	44.943	47.568
1248	ENSG00000112877	CEP72	-1.1	0.099465	0.2124859	9.327	0.526	8.724	9.687	10.552	0.776	9.718	11.251
1250	ENSG00000101624	CEP76	-1.2	0.0006782	0.0042687	6.589	0.468	6.145	7.077	8.288	0.495	7.717	8.584
1251	ENSG00000148019	CEP78	1.1	0.0018569	0.0095835	16.122	0.302	15.906	16.467	14.652	0.504	14.302	15.230
1252	ENSG00000173588	CEP83	1.1	0.0472274	0.1215763	12.136	0.614	11.428	12.521	11.110	0.479	10.570	11.482
1253	ENSG00000278916	CEP83- AS1	-1.3	0.0699414	0.1637259	2.346	0.603	1.905	3.034	3.180	0.372	2.824	3.567
1254	ENSG00000121289	CEP89	-1.1	0.1112814	0.2303063	6.348	0.306	6.077	6.680	7.017	0.175	6.843	7.194
1255	ENSG00000134255	CEPT1	1.1	0.0023939	0.0117288	13.315	0.417	12.857	13.671	11.952	0.261	11.666	12.180
1256	ENSG00000147869	CER1	3.7	0.0014269	0.0077699	1.139	0.463	0.608	1.459	0.303	0.295	0.128	0.644
1258	ENSG00000167123	CERCAM	1.3	0.0025486	0.0123509	4.858	0.355	4.459	5.139	3.890	0.313	3.581	4.207
1259	ENSG00000100422	CERK	-1.1	0.0003186	0.0023186	38.547	2.455	36.055	40.963	44.906	1.036	43.935	45.997
1260	ENSG00000090661	CERS4	1.2	2.837E-06	4.557E-05	38.999	0.323	38.666	39.311	32.723	1.873	30.590	34.100
1261	ENSG00000139624	CERS5	1.3	9.308E-07	1.8E-05	16.658	0.618	16.035	17.272	13.498	0.146	13.358	13.650
1262	ENSG00000172292	CERS6	1.1	0.0061743	0.0249226	23.699	0.802	22.777	24.239	21.816	0.836	21.040	22.702
1264	ENSG00000172831	CES2	1.2	0.0010262	0.0060015	11.443	1.005	10.369	12.362	9.616	0.648	8.943	10.236
1265	ENSG00000147400	CETN2	1.1	0.0056947	0.0234229	45.227	4.239	40.817	49.272	40.259	2.714	37.964	43.255
1266	ENSG00000153140	CETN3	1.1	0.0797897	0.1809201	62.503	2.123	60.456	64.696	59.986	3.126	56.900	63.150
1267	ENSG00000070761	CFAP20	1.1	0.0089466	0.0332777	40.396	0.995	39.413	41.402	36.823	1.381	35.758	38.383
1268	ENSG00000231233	CFAP58- AS1	1.6	0.0639151	0.152899	2.983	1.296	1.487	3.748	1.854	0.856	1.050	2.754
1269	ENSG00000105792	CFAP69	-1.2	0.0643552	0.153626	1.481	0.073	1.438	1.565	1.782	0.107	1.662	1.869
1270	ENSG00000153774	CFDP1	1.3	1.88E-09	8.662E-08	78.615	4.970	72.954	82.266	61.413	1.395	60.494	63.019
1271	ENSG00000172757	CFL1	-1	0.1081229	0.2256797	204.130	6.372	197.204	209.743	217.516	6.811	210.267	223.782
1272	ENSG00000165410	CFL2	-1.1	0.0268682	0.0791393	10.027	0.149	9.858	10.139	11.435	0.736	10.686	12.158
1273	ENSG00000001626	CFTR	2.3	8.267E-07	1.624E-05	1.666	0.431	1.326	2.151	0.734	0.059	0.666	0.771
1274	ENSG00000163320	CGGBP1	-1.1	0.0812184	0.1834463	67.347	0.992	66.205	67.998	72.335	2.432	70.256	75.009

	A	B	C	D	E	F	G	H	I	J	K	L	M
1275	ENSG00000143375	CGN	-1.2	1.183E-08	4.312E-07	52.497	1.071	51.321	53.415	65.949	0.887	65.138	66.896
1277	ENSG00000128849	CGNL1	-1.2	1.311E-06	2.385E-05	55.887	3.362	52.050	58.318	67.446	2.002	65.770	69.663
1278	ENSG00000138028	CGREF1	1.6	0.0001878	0.001518	3.364	0.729	2.926	4.205	2.149	0.214	2.014	2.396
1279	ENSG00000138135	CH25H	7.9	0.0032482	0.0150103	0.322	0.052	0.263	0.353	0.031	0.054	0.000	0.093
1280	ENSG00000128965	CHAC1	2.6	1.06E-18	5.29E-16	33.974	0.869	33.166	34.893	13.095	1.655	11.191	14.187
1281	ENSG00000167670	CHAF1A	1.1	0.0006415	0.0040945	55.552	0.694	54.985	56.326	50.352	3.564	46.390	53.297
1283	ENSG00000159259	CHAF1B	1.1	0.0293096	0.0847051	18.622	1.065	17.482	19.591	16.982	2.464	14.233	18.992
1284	ENSG00000198824	CHAMP1	1.2	1.17E-05	0.0001524	31.664	1.057	30.902	32.870	26.773	0.826	25.840	27.408
1285	ENSG00000106153	CHCHD2	-1.1	0.0135556	0.0465608	93.988	4.409	88.952	97.152	107.742	12.615	93.272	116.429
1286	ENSG00000215006	CHCHD2P2	-1.3	0.0329703	0.0928449	15.787	1.090	14.773	16.940	21.824	2.617	19.572	24.695
1287	ENSG00000125611	CHCHD5	-1.1	0.0793035	0.1801812	5.267	0.400	4.910	5.699	6.170	0.603	5.784	6.865
1289	ENSG00000153922	CHD1	-1.1	0.0604458	0.1465252	30.229	1.393	28.621	31.065	32.749	0.490	32.188	33.087
1290	ENSG00000131778	CHD1L	1.1	0.0003078	0.0022565	95.341	1.129	94.071	96.232	87.050	1.560	85.658	88.736
1291	ENSG00000111642	CHD4	1.1	0.040984	0.1089021	208.744	11.469	195.530	216.114	201.972	8.172	193.235	209.428
1292	ENSG00000100888	CHD8	-1.1	0.0020019	0.0101828	44.296	1.035	43.139	45.134	49.558	1.493	48.491	51.264
1293	ENSG00000177200	CHD9	-1.1	0.0443031	0.1157724	12.752	0.293	12.444	13.027	13.918	0.348	13.714	14.320
1294	ENSG0000016391	CHDH	-1.1	0.0927571	0.2024992	7.672	0.433	7.384	8.170	8.554	0.650	7.807	8.991
1295	ENSG00000149554	CHEK1	-1.1	0.0312645	0.0890945	43.747	1.535	42.438	45.436	47.733	0.667	46.977	48.238
1296	ENSG00000085872	CHERP	-1.2	0.0005396	0.0035592	22.016	1.056	21.278	23.226	26.273	1.929	24.363	28.220
1297	ENSG00000072609	CHFR	1.2	2.913E-05	0.0003254	7.141	0.637	6.420	7.625	5.975	0.205	5.830	6.210
1298	ENSG00000100604	CHGA	-1.1	0.0045106	0.0195359	32.267	2.097	29.862	33.716	37.323	1.461	36.196	38.974
1299	ENSG00000204116	CHIC1	1.1	0.1146034	0.2349154	12.661	0.256	12.367	12.839	11.911	0.765	11.089	12.602
1300	ENSG00000110721	CHKA	1.2	0.0002669	0.0020153	46.486	3.464	43.270	50.154	41.000	1.920	39.300	43.083
1301	ENSG00000203668	CHML	-1.1	0.0022761	0.0112462	49.172	0.562	48.715	49.800	56.371	1.590	54.632	57.749
1302	ENSG00000278530	CHMP1B2P	1.3	0.0061489	0.024844	2.838	0.171	2.661	3.003	2.270	0.164	2.094	2.419
1303	ENSG00000083937	CHMP2B	1.2	7.013E-08	1.987E-06	105.845	2.912	103.177	108.951	87.889	3.245	85.650	91.610
1304	ENSG00000115561	CHMP3	1.3	0.0003456	0.0024778	6.465	0.236	6.305	6.736	5.270	0.305	5.065	5.621
1305	ENSG00000101421	CHMP4B	1.1	0.0118156	0.041685	119.027	2.107	116.654	120.678	112.046	2.293	109.460	113.833
1306	ENSG00000164695	CHMP4C	2.1	3.51E-11	2.58E-09	13.470	0.594	12.985	14.132	6.545	0.141	6.439	6.705
1307	ENSG00000176108	CHMP6	1.2	0.0355212	0.0979251	14.972	1.840	13.802	17.093	13.027	1.595	11.741	14.811
1308	ENSG00000147457	CHMP7	-1.2	5.812E-05	0.0005799	26.161	0.832	25.582	27.114	31.799	2.055	29.453	33.285
1309	ENSG00000106069	CHN2	1.3	0.0066209	0.0263358	1.403	0.185	1.202	1.565	1.074	0.112	0.954	1.174
1310	ENSG00000166869	CHP2	-1.2	0.004245	0.0186048	11.547	0.516	11.164	12.134	14.427	0.156	14.314	14.604
1312	ENSG00000033100	CHPF2	-1.3	0.0001803	0.0014704	8.549	0.283	8.257	8.822	11.018	0.549	10.517	11.604
1313	ENSG00000111666	CHPT1	1.2	0.0041959	0.0184357	12.640	0.320	12.296	12.928	11.227	0.753	10.450	11.952
1314	ENSG00000090539	CHRD	-1.6	0.0161696	0.0535914	0.508	0.130	0.402	0.653	0.825	0.186	0.704	1.040
1315	ENSG00000101204	CHRNA4	-3.1	6.906E-08	1.966E-06	0.224	0.057	0.160	0.270	0.717	0.179	0.534	0.892
1316	ENSG00000169684	CHRNA5	1.2	0.0127609	0.0443082	11.858	0.846	10.929	12.583	10.384	1.046	9.213	11.224
1317	ENSG00000174343	CHRNA9	1.7	6.67E-05	0.0006495	3.101	0.162	2.938	3.262	1.889	0.262	1.633	2.157
1318	ENSG00000171310	CHST11	-1.3	3.129E-05	0.0003456	5.203	0.325	4.912	5.554	7.014	0.442	6.684	7.516

	A	B	C	D	E	F	G	H	I	J	K	L	M
1319	ENSG00000136213	CHST12	-1.2	0.0046828	0.0201167	1.780	0.052	1.744	1.840	2.205	0.256	2.037	2.500
1320	ENSG00000169105	CHST14	1.1	0.0344942	0.0958751	16.593	0.812	15.657	17.114	15.070	0.473	14.644	15.579
1321	ENSG00000124302	CHST8	-1.3	0.0015844	0.0084617	6.325	0.032	6.289	6.346	8.471	0.893	7.785	9.480
1322	ENSG00000154080	CHST9	-1.2	0.0251139	0.0752036	3.479	0.394	3.168	3.921	4.129	0.571	3.478	4.548
1323	ENSG00000131873	CHSY1	-1.1	0.0012731	0.0071228	31.834	0.977	30.709	32.473	37.065	2.936	34.247	40.107
1324	ENSG00000127586	CHTF18	-1.2	1.328E-05	0.0001698	22.144	0.276	21.968	22.461	27.703	1.619	25.840	28.771
1325	ENSG00000144021	CIAO1	-1.1	0.0111555	0.0397877	42.968	1.111	41.745	43.916	47.900	1.455	46.694	49.515
1326	ENSG00000159208	CIART	1.2	0.0436749	0.1144588	7.726	0.682	7.018	8.379	6.687	0.504	6.106	6.995
1327	ENSG00000136305	CIDEB	1.2	0.0287108	0.0834054	8.154	0.617	7.525	8.758	7.013	0.560	6.419	7.531
1330	ENSG00000160161	CILP2	-1.3	0.0018138	0.0094189	6.524	0.322	6.231	6.868	8.356	0.723	7.729	9.147
1331	ENSG00000138433	CIR1	-1.1	0.0845284	0.189216	23.235	0.300	22.903	23.486	26.026	2.661	23.870	29.000
1332	ENSG00000099622	CIRBP	-1	0.112422	0.2318489	77.790	2.639	75.401	80.622	83.226	2.724	80.823	86.185
1333	ENSG00000122873	CISD1	1.1	0.0733192	0.1697507	27.805	1.143	27.002	29.114	26.081	1.592	24.243	27.043
1334	ENSG00000145354	CISD2	1.3	7.864E-07	1.561E-05	35.248	1.113	34.046	36.241	27.283	1.823	25.409	29.051
1335	ENSG00000122966	CIT	-1.1	0.0213438	0.0663366	21.460	0.568	20.902	22.038	23.604	1.255	22.350	24.861
1336	ENSG00000164442	CITED2	-1.3	6.607E-07	1.353E-05	41.947	3.899	39.663	46.449	55.191	3.567	51.218	58.117
1338	ENSG00000179862	CITED4	-1.2	0.0530212	0.1329303	9.869	0.613	9.318	10.529	12.505	3.797	10.018	16.876
1339	ENSG00000136108	CKAP2	-1.1	0.0498909	0.1267525	92.633	4.032	88.670	96.731	100.850	5.386	96.756	106.952
1340	ENSG00000169607	CKAP2L	-1.3	1.603E-06	2.807E-05	26.021	2.504	24.543	28.912	35.468	3.921	31.929	39.683
1341	ENSG00000175216	CKAP5	-1.2	5.767E-09	2.328E-07	183.079	4.782	177.794	187.107	226.000	10.007	218.234	237.293
1342	ENSG00000166165	CKB	-1.1	0.0169768	0.0555483	172.545	5.481	166.453	177.077	191.922	8.674	184.270	201.344
1343	ENSG00000223572	CKMT1A	-1.1	0.0143705	0.0488047	30.734	0.510	30.297	31.295	34.805	1.078	34.042	36.038
1344	ENSG00000237289	CKMT1B	-1.1	0.0016823	0.0089026	29.733	0.681	28.980	30.305	34.713	1.562	33.477	36.469
1345	ENSG00000247572	CKMT2-AS1	-1.1	0.0825503	0.185958	5.503	0.249	5.217	5.664	6.396	0.191	6.187	6.564
1346	ENSG00000123975	CKS2	-1.1	5.296E-05	0.000536	1036.143	29.705	1002.915	1060.128	1212.328	85.415	1149.137	1309.504
1347	ENSG00000121940	CLCC1	1.2	0.0008674	0.0052062	20.839	0.500	20.315	21.309	18.291	1.190	17.423	19.647
1348	ENSG00000175505	CLCF1	2.5	3.937E-07	8.809E-06	3.899	0.328	3.621	4.261	1.613	0.349	1.267	1.966
1349	ENSG00000114859	CLCN2	-1.1	0.0608861	0.1473127	3.945	0.170	3.759	4.091	4.512	0.085	4.422	4.592
1350	ENSG00000073464	CLCN4	1.4	5.386E-08	1.593E-06	11.949	0.038	11.918	11.991	8.842	0.016	8.823	8.853
1351	ENSG00000171365	CLCN5	1.2	2.117E-05	0.0002494	16.115	0.184	15.962	16.320	13.889	0.575	13.265	14.396
1352	ENSG00000103249	CLCN7	1.1	0.0382577	0.1032805	16.994	1.021	15.818	17.658	15.868	1.449	14.327	17.202
1353	ENSG00000186510	CLCNKA	-1.7	0.0027633	0.0132058	0.908	0.203	0.686	1.084	1.562	0.199	1.385	1.777
1354	ENSG00000184908	CLCNKB	-1.5	0.0039298	0.0175367	2.163	0.209	1.934	2.345	3.301	0.220	3.104	3.539
1355	ENSG00000163347	CLDN1	-1.8	0.0003588	0.0025516	2.033	0.818	1.098	2.620	3.765	0.886	3.180	4.784
1356	ENSG00000134873	CLDN10	1.2	0.0007711	0.004722	26.458	3.114	22.977	28.980	22.424	1.598	20.591	23.525
1357	ENSG00000013297	CLDN11	1.6	1.141E-06	2.124E-05	3.414	0.204	3.264	3.647	2.120	0.337	1.731	2.334
1358	ENSG00000157224	CLDN12	1.2	2.194E-05	0.0002579	35.355	1.457	33.905	36.820	30.611	1.245	29.210	31.590
1359	ENSG00000165215	CLDN3	-1.3	0.0003862	0.0027169	28.264	4.214	23.873	32.276	37.473	2.729	35.229	40.512
1360	ENSG00000189143	CLDN4	-1.4	6.816E-09	2.664E-07	27.985	2.107	25.717	29.881	38.705	1.207	37.355	39.682
1361	ENSG00000105472	CLEC11A	-1.4	0.0276667	0.0809835	2.823	0.190	2.637	3.017	4.049	0.391	3.700	4.472
1362	ENSG00000069493	CLEC2D	-1.2	0.0661697	0.1570099	3.417	0.095	3.309	3.490	4.036	0.390	3.743	4.479
1363	ENSG00000213719	CLIC1	1.2	4.648E-06	6.968E-05	267.984	9.181	260.379	278.183	236.252	11.071	223.776	244.905

	A	B	C	D	E	F	G	H	I	J	K	L	M
1364	ENSG00000169504	CLIC4	1.2	2.079E-07	5.103E-06	407.708	6.104	400.661	411.321	353.807	3.403	350.506	357.304
1365	ENSG00000159212	CLIC6	1.3	0.0032288	0.0149492	7.894	0.767	7.153	8.684	6.381	0.836	5.431	7.010
1366	ENSG00000113282	CLINT1	-1.1	0.1044034	0.2199795	54.654	2.328	52.032	56.480	58.694	1.444	57.446	60.276
1367	ENSG00000130779	CLIP1	1.3	4.267E-07	9.458E-06	7.583	0.198	7.394	7.789	5.935	0.222	5.711	6.156
1368	ENSG00000106665	CLIP2	1.3	4.172E-07	9.272E-06	31.799	1.231	30.417	32.779	25.080	1.352	23.613	26.277
1369	ENSG00000105270	CLIP3	-1.3	4.27E-05	0.00045	14.415	1.624	12.565	15.602	19.429	2.610	16.591	21.727
1370	ENSG00000115295	CLIP4	2.8	1.799E-05	0.0002169	0.668	0.271	0.475	0.977	0.248	0.083	0.200	0.343
1371	ENSG00000013441	CLK1	-1.1	0.010467	0.0378454	20.613	1.681	18.763	22.045	23.605	0.943	23.051	24.694
1372	ENSG00000176444	CLK2	-1.1	0.0066945	0.0265535	27.500	1.172	26.210	28.501	31.605	2.094	29.213	33.105
1373	ENSG00000232553	CLK2P1	-1.5	0.0697496	0.1634121	1.527	0.150	1.370	1.669	2.301	0.862	1.548	3.240
1374	ENSG00000179335	CLK3	-1.4	1.656E-08	5.75E-07	2.414	0.027	2.394	2.445	3.572	0.432	3.217	4.053
1375	ENSG00000165959	CLMN	-1.1	0.0557761	0.138077	2.432	0.265	2.144	2.666	2.806	0.193	2.679	3.028
1376	ENSG00000166250	CLMP	1.2	0.0004074	0.0028318	12.709	0.739	12.050	13.507	10.669	0.902	9.659	11.394
1377	ENSG00000074201	CLNS1A	-1.1	0.0027222	0.0130574	87.051	1.873	84.915	88.412	97.240	2.116	94.854	98.889
1378	ENSG00000162129	CLPB	-1.1	0.0294864	0.0851174	9.113	0.311	8.766	9.364	10.547	0.298	10.307	10.881
1379	ENSG00000166855	CLPX	-1.1	0.0004597	0.0031275	40.530	0.948	39.742	41.582	46.995	0.678	46.252	47.582
1381	ENSG00000171603	CLSTN1	-1.1	0.0012526	0.0070381	62.926	0.698	62.495	63.731	71.507	3.672	69.138	75.738
1382	ENSG00000139182	CLSTN3	1.4	1.061E-07	2.872E-06	12.948	1.593	11.162	14.225	9.242	0.864	8.314	10.024
1383	ENSG00000175416	CLTB	1.1	0.0913456	0.2004898	17.168	0.186	17.025	17.378	15.739	0.889	14.733	16.415
1384	ENSG00000141367	CLTC	1	0.086335	0.1921294	145.450	2.785	142.263	147.415	142.407	5.280	136.576	146.865
1385	ENSG00000070371	CLTCL1	-1.1	0.0119501	0.0420716	6.387	0.415	6.138	6.866	7.417	0.515	6.925	7.953
1386	ENSG00000120885	CLU	1.5	4.48E-16	1.10E-13	102.862	6.958	95.648	109.532	70.160	0.534	69.545	70.490
1387	ENSG00000103351	CLUAP1	-1.1	0.1009134	0.2144425	4.274	0.245	4.035	4.525	4.840	0.272	4.680	5.154
1388	ENSG00000131797	CLUHP3	-1.1	0.0274243	0.0804487	5.116	0.272	4.834	5.376	6.015	0.346	5.679	6.370
1389	ENSG00000146352	CLVS2	-1.5	0.0009147	0.0054246	0.584	0.102	0.467	0.656	0.926	0.083	0.831	0.974
1390	ENSG00000125246	CLYBL	-1.1	0.1205341	0.2436469	5.568	0.277	5.401	5.888	6.228	0.210	6.027	6.447
1391	ENSG00000111726	CMAS	-1.1	0.0050096	0.0211766	84.906	2.166	83.187	87.339	95.768	3.761	91.425	97.962
1392	ENSG00000164237	CMBL	-1.1	0.0934784	0.2034488	34.074	3.424	31.576	37.977	37.785	2.913	34.947	40.768
1393	ENSG00000153815	CMIP	-1.1	0.0037252	0.016752	11.935	0.993	10.811	12.690	13.774	0.725	12.996	14.428
1394	ENSG00000174600	CMKLR1	2.5	6.268E-06	8.954E-05	1.188	0.298	1.012	1.532	0.489	0.135	0.409	0.645
1395	ENSG00000162368	CMPK1	1.1	0.0207963	0.0650626	49.036	4.196	45.467	53.658	45.406	3.857	42.151	49.667
1397	ENSG00000184220	CMSS1	-1.1	0.1196395	0.2422729	14.173	1.767	12.950	16.198	15.550	0.445	15.293	16.064
1398	ENSG00000183723	CMTM4	-1.2	1.615E-08	5.654E-07	46.730	1.277	45.256	47.484	58.532	3.037	55.025	60.328
1399	ENSG00000091317	CMTM6	1.1	0.0507399	0.1284676	88.933	1.602	87.814	90.768	85.514	2.946	82.277	88.038
1400	ENSG00000170293	CMTM8	-1.2	0.0743938	0.1713965	13.329	1.656	12.183	15.227	16.046	2.279	14.419	18.651
1401	ENSG00000137200	CMTR1	-1.1	0.0058886	0.0240508	30.096	0.888	29.577	31.122	33.837	0.319	33.574	34.192
1402	ENSG00000180917	CMTR2	-1.1	0.013644	0.046779	11.422	0.387	11.048	11.820	13.116	0.774	12.249	13.738
1403	ENSG00000164309	CMYA5	1.4	0.0002057	0.0016275	1.519	0.137	1.406	1.671	1.070	0.207	0.836	1.227
1404	ENSG00000133313	CNDP2	1.2	7.993E-06	0.0001103	37.662	0.540	37.158	38.232	32.983	1.583	31.157	33.961
1405	ENSG00000205423	CNEP1R1	-1.1	0.0828701	0.1864302	9.442	0.096	9.335	9.521	10.650	0.472	10.110	10.985
1406	ENSG00000105427	CNFN	-1.4	0.0258738	0.0769568	13.854	4.733	10.529	19.272	19.480	5.440	16.081	25.754
1407	ENSG00000198515	CNGA1	-1.9	0.0003452	0.0024772	1.006	0.330	0.707	1.361	1.957	0.083	1.908	2.053
1408	ENSG00000174871	CNIH2	-1.3	0.0630902	0.1514612	3.342	0.487	2.783	3.672	4.318	0.738	3.528	4.989

	A	B	C	D	E	F	G	H	I	J	K	L	M
1409	ENSG00000143786	CNIH3	1.6	4.366E-05	0.0004578	2.521	0.235	2.312	2.776	1.589	0.141	1.459	1.739
1410	ENSG00000143771	CNIH4	1.5	9.43E-15	1.75E-12	53.623	0.710	52.808	54.106	36.685	1.574	34.880	37.777
1411	ENSG00000153721	CNKS3	-1.1	0.0704056	0.1645064	1.307	0.117	1.175	1.398	1.516	0.199	1.361	1.741
1412	ENSG00000136110	CNMD	-1.3	1.361E-07	3.564E-06	80.551	4.925	75.636	85.486	104.504	4.074	99.948	107.794
1413	ENSG00000130176	CNN1	1.8	7.281E-07	1.47E-05	37.683	6.182	30.736	42.577	22.007	0.672	21.356	22.699
1414	ENSG00000064666	CNN2	1.1	0.0044925	0.0194727	264.262	17.535	244.495	277.942	247.836	7.388	240.895	255.602
1415	ENSG00000117519	CNN3	1.1	1.073E-05	0.0001416	288.011	5.870	282.648	294.282	260.203	3.888	257.355	264.633
1416	ENSG00000148842	CNNM2	-1.2	4.532E-05	0.0004725	6.010	0.547	5.517	6.598	7.608	0.673	6.859	8.163
1417	ENSG00000168763	CNNM3	-1.3	3.54E-05	0.0003833	16.114	1.418	14.477	16.962	20.984	1.733	19.237	22.702
1418	ENSG00000158158	CNNM4	-1.3	2.819E-06	4.532E-05	10.264	0.642	9.724	10.973	13.882	0.596	13.203	14.319
1419	ENSG00000111596	CNOT2	-1.2	2.843E-05	0.0003197	17.778	0.538	17.178	18.217	21.045	0.406	20.733	21.503
1420	ENSG00000088038	CNOT3	-1.3	9.89E-09	3.709E-07	19.330	0.762	18.478	19.948	26.377	0.939	25.751	27.457
1421	ENSG00000138767	CNOT6L	1.1	0.0129327	0.0448126	13.143	0.741	12.507	13.957	11.951	1.031	10.760	12.570
1422	ENSG00000230183	CNOT6LP1	1.4	0.0163256	0.0539547	5.944	0.176	5.760	6.110	4.399	1.236	2.974	5.194
1423	ENSG00000198791	CNOT7	-1.1	0.0065697	0.0261643	39.060	1.396	38.113	40.663	43.240	1.906	41.425	45.226
1424	ENSG00000144580	CNOT9	1.1	0.0243783	0.0735479	41.606	1.220	40.533	42.934	39.483	1.574	38.369	41.284
1426	ENSG00000173786	CNP	1.1	0.075045	0.1725406	21.762	1.143	20.578	22.859	20.887	0.591	20.496	21.566
1428	ENSG00000115649	CNPPD1	-1.1	0.0968233	0.2083834	21.576	0.974	20.502	22.402	23.986	2.101	21.586	25.500
1430	ENSG00000018236	CNTN1	-1.3	0.0013459	0.0074221	2.439	0.051	2.385	2.486	3.334	0.667	2.674	4.008
1431	ENSG00000144619	CNTN4	1.4	0.0808738	0.1828145	0.498	0.054	0.437	0.539	0.370	0.105	0.256	0.463
1432	ENSG00000174469	CNTNAP2	1.2	0.0002467	0.0018917	14.837	1.331	13.586	16.237	13.026	0.190	12.827	13.206
1433	ENSG00000119397	CNTRL	1.1	0.0041522	0.0183001	14.403	0.508	13.875	14.888	13.103	0.374	12.672	13.345
1434	ENSG00000170037	CNTROB	-1.2	1.617E-05	0.0001981	13.212	0.464	12.742	13.670	16.761	1.337	15.232	17.712
1435	ENSG00000106078	COBL	-1.3	1.865E-09	8.619E-08	21.846	0.708	21.196	22.600	28.337	1.493	26.700	29.625
1436	ENSG00000100473	COCH	1.6	4.772E-10	2.53E-08	16.486	0.406	16.024	16.787	10.791	0.248	10.508	10.971
1437	ENSG00000135775	COG2	-1.2	0.002711	0.013015	8.900	1.002	8.280	10.056	10.544	0.908	9.669	11.482
1438	ENSG00000136152	COG3	-1.1	0.0424742	0.1118775	12.813	0.563	12.246	13.373	14.378	0.791	13.830	15.285
1439	ENSG00000164597	COG5	-1.1	0.0499366	0.1268325	13.581	0.043	13.531	13.610	15.051	1.272	13.903	16.419
1440	ENSG00000133103	COG6	-1.1	0.0334583	0.0937908	10.787	0.283	10.607	11.113	12.237	0.948	11.400	13.266
1442	ENSG00000168434	COG7	1.2	0.0004793	0.0032324	14.312	0.856	13.632	15.274	11.940	0.335	11.560	12.194
1443	ENSG00000213380	COG8	-1.2	0.0283011	0.0825555	5.665	0.488	5.289	6.217	6.713	0.178	6.507	6.820
1444	ENSG00000121058	COIL	-1.4	2.314E-09	1.038E-07	31.362	1.774	29.354	32.717	43.997	2.627	41.106	46.238
1445	ENSG00000060718	COL11A1	1.8	8.59E-16	1.89E-13	17.085	1.195	15.805	18.172	9.768	0.059	9.706	9.823
1446	ENSG00000204248	COL11A2	-1.2	0.0926174	0.202292	1.613	0.441	1.336	2.122	2.045	0.495	1.498	2.460
1447	ENSG00000111799	COL12A1	2.7	1.90E-20	1.34E-17	7.696	0.535	7.079	8.009	2.908	0.063	2.837	2.957
1448	ENSG00000187955	COL14A1	1.2	4.454E-06	6.72E-05	15.172	0.339	14.804	15.472	12.619	0.526	12.141	13.182
1449	ENSG00000182871	COL18A1	1.1	0.1199111	0.2427065	93.979	1.296	93.159	95.473	90.986	7.163	85.900	99.178
1450	ENSG00000164692	COL1A2	1	0.1225046	0.2466866	41.413	1.582	40.425	43.239	40.452	1.932	38.221	41.609
1454	ENSG00000124749	COL21A1	1.5	2.919E-05	0.0003258	3.355	0.016	3.338	3.368	2.347	0.381	1.910	2.611
1455	ENSG00000169436	COL22A1	1.1	0.1139546	0.2339257	2.814	0.367	2.564	3.235	2.499	0.423	2.025	2.836
1456	ENSG00000188517	COL25A1	-1.2	0.0289086	0.0838503	3.741	0.146	3.575	3.852	4.476	0.293	4.255	4.809
1457	ENSG00000160963	COL26A1	1.2	3.77E-07	8.489E-06	83.810	1.885	81.635	84.972	70.750	2.941	67.808	73.690

	A	B	C	D	E	F	G	H	I	J	K	L	M
1460	ENSG00000196739	COL27A1	-1.2	0.0001901	0.0015316	5.610	0.736	4.836	6.301	7.108	0.216	6.896	7.328
1461	ENSG00000187498	COL4A1	1.1	0.000147	0.0012375	65.171	1.037	64.361	66.339	59.653	1.455	58.129	61.028
1462	ENSG00000134871	COL4A2	1.1	0.002524	0.012274	60.445	1.763	58.475	61.872	55.576	4.098	52.274	60.163
1463	ENSG00000169031	COL4A3	1.6	0.0101749	0.0369842	0.465	0.057	0.405	0.518	0.297	0.020	0.274	0.311
1464	ENSG00000113163	COL4A3BP	-1.1	0.0203472	0.0639177	26.789	0.222	26.552	26.993	29.566	0.835	28.668	30.321
1465	ENSG00000081052	COL4A4	1.4	0.0030544	0.0143062	1.362	0.024	1.343	1.389	1.018	0.134	0.901	1.164
1466	ENSG00000197565	COL4A6	1.2	0.0003562	0.0025378	19.326	1.379	17.815	20.517	17.013	0.650	16.397	17.692
1467	ENSG00000130635	COL5A1	1.1	0.0906258	0.1993956	4.175	0.445	3.708	4.595	3.835	0.462	3.356	4.277
1468	ENSG00000080573	COL5A3	-1.4	0.0237111	0.0720065	0.966	0.196	0.744	1.116	1.342	0.173	1.187	1.529
1469	ENSG00000163359	COL6A3	-1.3	0.0004752	0.0032112	1.232	0.088	1.161	1.331	1.613	0.045	1.566	1.657
1470	ENSG00000144810	COL8A1	2.2	8.784E-05	0.0008127	0.577	0.177	0.380	0.722	0.266	0.035	0.231	0.302
1471	ENSG00000049089	COL9A2	1.5	0.0002623	0.0019861	4.258	0.218	4.020	4.449	2.976	0.404	2.713	3.442
1472	ENSG00000092758	COL9A3	1.2	4.198E-05	0.0004437	37.123	1.089	36.033	38.210	31.416	2.620	29.221	34.316
1473	ENSG00000118004	COLEC11	1.8	0.0245351	0.073876	0.960	0.143	0.797	1.064	0.552	0.114	0.421	0.619
1474	ENSG00000198756	COLGALT2	1.3	0.0194302	0.0615681	2.099	0.403	1.647	2.419	1.670	0.318	1.304	1.868
1475	ENSG00000173163	COMMD1	1.1	0.0456956	0.1185897	18.944	1.573	17.141	20.042	17.253	0.676	16.489	17.774
1476	ENSG00000148444	COMMD3	1.7	0.0046467	0.0199904	1.653	0.364	1.380	2.066	1.017	0.311	0.749	1.358
1477	ENSG00000140365	COMMD4	1.1	0.0024772	0.0120776	15.328	0.778	14.549	16.106	13.699	0.690	13.158	14.477
1478	ENSG00000170619	COMMD5	1.2	0.0251958	0.0753824	9.980	0.726	9.193	10.624	8.728	0.787	8.239	9.636
1479	ENSG00000149600	COMMD7	-1.2	0.000195	0.0015633	29.747	1.804	28.587	31.826	36.536	0.761	35.909	37.382
1480	ENSG00000110442	COMMD9	1.3	7.623E-05	0.0007243	5.707	0.122	5.581	5.823	4.472	0.126	4.342	4.594
1481	ENSG00000122218	COPA	-1.1	1.427E-05	0.0001798	70.330	1.082	69.155	71.286	81.890	1.366	80.790	83.419
1482	ENSG00000129083	COPB1	-1.1	0.0002314	0.001796	74.487	3.684	70.732	78.095	85.560	1.896	83.518	87.265
1483	ENSG00000184432	COPB2	-1.1	8.363E-05	0.0007802	67.450	0.627	66.795	68.043	77.344	3.104	74.089	80.270
1484	ENSG00000181789	COPG1	-1.1	0.053076	0.1330057	62.355	1.957	60.192	64.005	67.616	0.714	66.830	68.226
1486	ENSG00000158623	COPG2	-1.1	0.0192118	0.0610197	92.914	3.877	89.215	96.946	101.940	0.854	101.245	102.893
1487	ENSG00000172301	COPRS	1.2	0.0002707	0.0020387	68.338	1.450	66.751	69.595	58.136	5.389	53.959	64.220
1488	ENSG00000166200	COPS2	-1.1	0.0008995	0.0053512	39.427	2.395	37.455	42.092	45.190	1.097	44.317	46.422
1489	ENSG00000172428	COPS9	-1.2	0.0003659	0.0025966	30.868	1.994	29.081	33.019	37.794	1.454	36.635	39.426
1490	ENSG00000135469	COQ10A	-1.1	0.0917048	0.2010112	13.840	0.474	13.294	14.150	15.597	0.267	15.288	15.755
1491	ENSG00000173085	COQ2	1.1	0.0507563	0.12849	20.451	0.702	19.652	20.970	18.828	0.698	18.229	19.594
1492	ENSG00000163050	COQ8A	-1.1	0.0012734	0.0071228	13.817	0.576	13.321	14.448	16.214	0.689	15.815	17.010
1493	ENSG00000172725	CORO1B	1.1	0.0221105	0.0681157	40.554	1.506	38.941	41.924	38.188	1.686	36.471	39.841
1494	ENSG00000110880	CORO1C	1.2	4.281E-08	1.312E-06	86.538	3.047	83.022	88.406	73.612	1.304	72.202	74.773
1495	ENSG00000103647	CORO2B	1.2	0.0431937	0.1134018	3.779	0.131	3.656	3.917	3.161	0.569	2.505	3.521
1497	ENSG00000167549	CORO6	-1.7	9.159E-05	0.0008418	1.256	0.192	1.034	1.368	2.235	0.381	1.941	2.665
1499	ENSG00000262246	CORO7	-1.2	0.045214	0.1176286	1.188	0.036	1.159	1.228	1.491	0.057	1.442	1.554
1502	ENSG00000103187	COTL1	1.2	0.0006704	0.0042325	49.184	1.154	47.992	50.295	42.323	3.452	39.158	46.004
1503	ENSG00000231162	COX11P1	-1.7	0.0343394	0.0955547	1.863	0.797	1.061	2.654	3.306	1.144	2.418	4.597
1504	ENSG00000178449	COX14	-1.2	0.0114385	0.040583	23.698	0.611	22.994	24.080	28.741	2.884	25.507	31.047
1505	ENSG00000014919	COX15	-1.2	0.0002221	0.0017374	32.902	2.059	30.946	35.051	39.149	0.317	38.791	39.394

	A	B	C	D	E	F	G	H	I	J	K	L	M
1506	ENSG00000163626	COX18	1.1	0.0516833	0.1302162	14.915	0.662	14.477	15.676	14.038	0.487	13.564	14.537
1507	ENSG00000213025	COX20P1	1.2	0.0861755	0.1918907	40.035	0.977	39.020	40.970	34.854	4.169	30.233	38.333
1508	ENSG00000178741	COX5A	-1.1	0.0394666	0.1058514	212.255	7.103	204.102	217.107	230.962	2.284	228.932	233.435
1509	ENSG00000135940	COX5B	-1.1	0.0861565	0.1918907	180.092	2.629	177.062	181.764	194.571	4.822	189.787	199.430
1510	ENSG00000160471	COX6B2	-1.5	0.0006641	0.0041994	1.994	0.378	1.626	2.382	3.092	0.200	2.870	3.257
1511	ENSG00000131174	COX7B	-1.1	0.0012786	0.0071465	81.233	0.931	80.208	82.025	93.041	4.968	88.905	98.551
1512	ENSG00000127184	COX7C	-1.1	0.000411	0.0028524	472.827	5.006	468.986	478.489	531.385	2.871	529.006	534.574
1513	ENSG00000108582	CPD	1.2	4.277E-06	6.494E-05	34.468	0.560	34.070	35.109	30.265	0.504	29.697	30.658
1514	ENSG00000214575	CPEB1	1.6	3.473E-06	5.418E-05	2.368	0.154	2.231	2.534	1.479	0.124	1.381	1.618
1515	ENSG00000113742	CPEB4	1.2	0.0021798	0.010837	4.580	0.310	4.351	4.933	3.852	0.223	3.609	4.045
1516	ENSG00000145920	CPLX2	-1.9	0.0426246	0.112204	0.160	0.100	0.083	0.273	0.304	0.123	0.165	0.397
1517	ENSG00000135678	CPM	1.4	0.052935	0.1327338	0.590	0.055	0.549	0.652	0.431	0.106	0.311	0.515
1518	ENSG00000214078	CPNE1	-1.1	0.0013472	0.0074265	74.952	3.499	70.941	77.383	85.391	3.313	83.288	89.210
1519	ENSG00000085719	CPNE3	1.1	0.0285595	0.0830799	39.430	1.242	38.345	40.784	37.550	0.698	36.792	38.166
1521	ENSG00000178773	CPNE7	-1.9	1.349E-07	3.537E-06	3.095	0.340	2.889	3.488	5.994	0.537	5.452	6.527
1523	ENSG00000139117	CPNE8	1.4	0.0001028	0.0009242	5.627	0.301	5.304	5.898	4.242	0.211	4.079	4.480
1524	ENSG00000021826	CPS1	1.2	0.0042353	0.0185766	6.571	0.157	6.391	6.677	5.762	0.587	5.092	6.186
1525	ENSG00000071894	CPSF1	-1.1	0.0051444	0.0216006	41.436	1.897	40.293	43.626	46.971	2.679	44.168	49.506
1526	ENSG00000214076	CPSF1P1	-2.1	2.931E-07	6.876E-06	1.442	0.260	1.278	1.742	3.076	0.053	3.019	3.123
1527	ENSG00000165934	CPSF2	-1.1	0.0001025	0.0009219	35.591	0.130	35.449	35.704	40.980	1.739	39.342	42.805
1528	ENSG00000119203	CPSF3	-1.1	0.0002543	0.0019366	90.860	0.928	90.118	91.901	103.487	1.628	101.610	104.529
1529	ENSG00000111605	CPSF6	-1.1	9.433E-05	0.0008619	86.682	1.543	85.765	88.464	99.539	1.597	98.016	101.200
1530	ENSG00000110090	CPT1A	1.1	0.0711172	0.1657669	4.407	0.235	4.253	4.678	3.928	0.307	3.573	4.105
1531	ENSG00000106066	CPVL	1.3	1.027E-07	2.804E-06	48.220	0.139	48.082	48.360	38.391	2.472	36.375	41.150
1532	ENSG00000088882	CPXM1	1.1	0.0127211	0.0442142	44.724	1.133	43.493	45.725	40.630	1.317	39.366	41.994
1533	ENSG00000166426	CRABP1	-1.1	0.0052018	0.0217715	139.876	5.801	133.222	143.871	162.283	14.008	146.719	173.882
1534	ENSG00000143320	CRABP2	-1.1	0.0283661	0.0826594	209.606	20.533	185.898	221.744	236.513	19.129	214.526	249.326
1536	ENSG00000177685	CRACR2B	-1.2	0.0155188	0.05181	9.920	0.760	9.320	10.775	11.716	0.121	11.589	11.831
1537	ENSG00000095321	CRAT	-1.1	0.0555525	0.137624	9.448	1.260	8.305	10.800	10.964	0.542	10.413	11.497
1538	ENSG00000148204	CRB2	-1.6	1.038E-06	1.966E-05	2.909	0.200	2.698	3.095	4.822	0.853	3.838	5.332
1539	ENSG00000241258	CRCP	-1.1	0.1179935	0.240003	16.846	0.863	16.077	17.779	18.622	0.303	18.357	18.952
1541	ENSG00000143578	CREB3L4	-1.1	0.0796607	0.1806519	21.372	0.552	20.743	21.774	23.871	1.542	22.183	25.205
1542	ENSG00000146592	CREB5	3.1	2.57E-12	2.546E-10	1.404	0.231	1.263	1.671	0.454	0.062	0.400	0.522
1543	ENSG00000005339	CREBBP	-1.1	0.0501973	0.1273417	12.399	0.347	12.085	12.771	13.519	0.645	12.959	14.225
1544	ENSG00000111269	CREBL2	1.1	0.0206159	0.0646175	35.534	2.490	33.693	38.367	33.106	0.909	32.074	33.786
1545	ENSG00000143162	CREG1	1.2	0.0001855	0.0015025	37.290	1.280	35.813	38.089	32.198	1.290	30.733	33.163
1546	ENSG00000184164	CRELD2	1.2	0.0269487	0.0793356	6.861	0.856	6.086	7.780	6.011	0.315	5.816	6.374
1547	ENSG00000150938	CRIM1	1.3	4.379E-09	1.82E-07	21.795	0.880	21.097	22.783	16.898	0.445	16.616	17.410
1549	ENSG00000119878	CRIPT	-1.2	0.0085721	0.0321943	12.435	0.734	11.646	13.095	15.064	1.244	13.765	16.244
1550	ENSG00000103196	CRISPLD2	-1.1	0.1075614	0.2248965	3.173	0.179	2.974	3.320	3.658	0.345	3.276	3.947
1551	ENSG00000167193	CRK	-1.1	0.1157232	0.2365616	45.692	3.464	41.745	48.223	49.358	1.182	47.995	50.094
1553	ENSG00000099942	CRKL	-1.2	2.169E-06	3.628E-05	72.357	3.002	69.012	74.814	87.157	5.215	81.135	90.197
1554	ENSG00000006016	CRLF1	-1.3	0.0016419	0.0087241	6.921	0.780	6.021	7.387	9.235	0.358	8.958	9.639

	A	B	C	D	E	F	G	H	I	J	K	L	M
1555	ENSG00000176390	CRLF3	-1.1	0.0655259	0.1557173	19.771	0.539	19.182	20.241	21.898	1.624	20.879	23.772
1556	ENSG00000245694	CRNDE	1.2	0.0162617	0.0537912	4.494	0.286	4.220	4.791	3.699	0.342	3.311	3.959
1557	ENSG00000160741	CRTC2	-1.1	0.0411981	0.1093509	8.914	0.571	8.344	9.487	10.413	0.771	9.749	11.258
1558	ENSG00000100122	CRYBB1	-1.8	0.0256998	0.0765786	1.166	0.343	0.804	1.487	2.135	0.669	1.409	2.726
1559	ENSG00000100058	CRYBB2P1	1.2	0.0112229	0.039992	5.692	0.563	5.094	6.210	4.858	0.255	4.703	5.152
1561	ENSG00000176092	CRYBG2	1.3	0.000106	0.0009467	8.422	0.680	7.637	8.839	6.661	0.595	6.233	7.340
1562	ENSG00000080200	CRYBG3	1.1	0.0303314	0.0870074	7.530	0.469	7.143	8.052	6.956	0.237	6.769	7.223
1563	ENSG00000213139	CRYGS	-1.4	0.0436466	0.1144487	1.423	0.256	1.247	1.716	2.053	0.155	1.877	2.172
1564	ENSG00000103316	CRYM	-1.2	0.0553105	0.1372457	4.392	0.322	4.024	4.621	5.276	0.256	5.030	5.541
1565	ENSG00000205758	CRYZL1	-1.2	0.0072623	0.0283205	10.792	0.819	10.275	11.736	12.706	0.894	11.766	13.546
1566	ENSG00000172346	CSDC2	1.5	0.0069575	0.0273942	1.915	0.261	1.637	2.155	1.292	0.121	1.155	1.386
1568	ENSG00000009307	CSDE1	-1	0.1170969	0.2386958	433.018	5.042	427.206	436.213	458.346	2.785	455.574	461.144
1569	ENSG00000103653	CSK	-1.1	0.0458644	0.1189366	17.763	0.342	17.446	18.126	19.981	1.312	19.132	21.492
1570	ENSG00000183117	CSMD1	-1.4	0.0146806	0.0495891	0.367	0.097	0.284	0.474	0.513	0.045	0.482	0.565
1572	ENSG00000121904	CSMD2	-1.3	6.156E-06	8.816E-05	4.328	0.242	4.078	4.562	5.714	0.268	5.431	5.965
1573	ENSG00000113712	CSNK1A1	1.2	8.38E-08	2.335E-06	59.147	0.886	58.243	60.013	50.835	0.915	50.192	51.883
1574	ENSG00000141551	CSNK1D	-1.1	0.058438	0.142765	21.068	0.310	20.840	21.421	22.802	0.658	22.314	23.551
1576	ENSG00000213923	CSNK1E	-1.2	4.416E-05	0.0004619	58.868	4.251	54.687	63.186	69.949	3.517	65.964	72.616
1577	ENSG00000169118	CSNK1G1	-1.1	0.1241968	0.2492494	6.531	0.538	5.967	7.039	7.219	0.219	6.972	7.389
1578	ENSG00000151292	CSNK1G3	-1.1	0.0963225	0.2077407	34.383	0.713	33.818	35.184	37.353	1.832	35.300	38.818
1579	ENSG00000101266	CSNK2A1	-1.1	0.0001952	0.0015633	97.267	2.412	94.487	98.798	110.949	3.817	108.738	115.356
1580	ENSG00000254598	CSNK2A3	-1.2	5.275E-05	0.0005346	159.982	6.335	152.667	163.715	188.568	6.193	184.251	195.664
1581	ENSG00000173546	CSPG4	-1.1	0.122222	0.2463227	4.487	0.151	4.385	4.660	5.042	0.466	4.552	5.481
1582	ENSG00000114646	CSPG5	1.3	0.0745037	0.1716031	1.527	0.189	1.320	1.691	1.227	0.073	1.147	1.290
1583	ENSG00000144655	CSRNP1	1.3	0.0005985	0.0038771	9.324	0.384	8.993	9.745	7.409	0.394	6.958	7.689
1584	ENSG00000159176	CSRNP1	1.6	2.31E-12	2.358E-10	10.290	0.485	9.945	10.844	6.637	0.619	5.945	7.139
1585	ENSG00000160213	CSTB	1.2	1.269E-05	0.0001635	41.218	2.240	38.934	43.412	35.338	0.669	34.565	35.731
1586	ENSG00000101138	CSTF1	-1.1	0.0344458	0.0957879	22.962	1.062	22.223	24.179	25.599	0.971	24.977	26.718
1587	ENSG00000176102	CSTF3	-1.3	3.626E-10	2.017E-08	42.464	2.412	40.263	45.042	57.619	2.086	55.869	59.927
1588	ENSG00000117151	CTBS	1.2	0.0241978	0.0731149	3.493	0.165	3.306	3.617	2.965	0.392	2.619	3.391
1589	ENSG00000178971	CTC1	1.2	0.0028062	0.0133657	7.734	0.810	6.909	8.529	6.550	0.560	5.904	6.886
1590	ENSG00000102974	CTCF	-1.1	8.507E-05	0.0007909	59.176	3.135	56.813	62.732	69.207	0.831	68.316	69.960
1591	ENSG00000124092	CTCFL	-1.4	6.401E-06	9.121E-05	3.635	0.596	2.993	4.172	5.345	0.578	4.712	5.845
1593	ENSG00000144579	CTDSP1	-1.1	0.0276712	0.0809835	8.878	0.054	8.825	8.933	10.409	0.909	9.497	11.316
1594	ENSG00000175215	CTDSP2	-1.1	0.0268081	0.0790592	86.273	4.369	81.297	89.481	94.304	4.810	89.531	99.150
1595	ENSG00000144677	CTDSPL	1.1	0.00653	0.0260231	31.075	1.542	29.645	32.708	28.492	1.020	27.659	29.628
1596	ENSG00000118523	CTGF	1.6	0.0008769	0.0052499	225.730	15.362	208.937	239.074	147.614	28.513	115.064	168.171
1597	ENSG00000116761	CTH	1.2	0.0001631	0.0013543	33.983	1.725	32.232	35.680	28.874	1.006	27.856	29.867
1598	ENSG00000164932	CTHRC1	1.5	0.0025014	0.0121847	5.365	0.330	5.117	5.740	3.578	0.462	3.101	4.022
1599	ENSG00000134030	CTIF	-1.4	6.809E-06	9.605E-05	4.382	0.332	4.083	4.739	6.093	0.571	5.560	6.696
1600	ENSG00000044115	CTNNA1	-1	0.0943095	0.2049674	184.334	4.330	179.774	188.389	195.932	2.082	193.586	197.562
1603	ENSG00000066032	CTNNA2	-1.3	0.0002471	0.0018931	4.135	0.110	4.017	4.235	5.344	0.165	5.194	5.521

	A	B	C	D	E	F	G	H	I	J	K	L	M
1605	ENSG00000183230	CTNNA3	-2	0.0001575	0.0013102	0.253	0.049	0.199	0.294	0.510	0.046	0.474	0.562
1607	ENSG00000119326	CTNNAL1	1.1	0.0003358	0.0024149	97.900	1.539	96.496	99.545	89.622	1.662	87.734	90.868
1608	ENSG00000168036	CTNNB1	-1.1	7.953E-05	0.0007498	162.289	2.473	160.070	164.956	185.434	6.360	181.421	192.768
1609	ENSG00000198561	CTNND1	1.1	0.0067791	0.0267839	122.331	6.171	115.206	125.977	116.107	3.234	112.646	119.052
1610	ENSG00000169862	CTNND2	-1.4	2.575E-05	0.0002937	3.612	0.446	3.098	3.886	5.132	0.333	4.843	5.496
1611	ENSG00000040531	CTNS	1.2	0.0334762	0.0938009	8.237	1.464	7.174	9.907	7.100	0.487	6.581	7.548
1613	ENSG00000047230	CTPS2	1.1	0.0014698	0.0079578	66.229	3.067	62.702	68.266	61.198	1.561	59.486	62.543
1614	ENSG00000198730	CTR9	-1.1	0.0035545	0.0161475	41.192	1.473	39.731	42.676	46.281	0.818	45.680	47.212
1616	ENSG00000064601	CTSA	1.2	0.0005373	0.0035471	13.699	0.739	13.001	14.472	11.805	0.239	11.538	11.998
1617	ENSG00000109861	CTSC	1.1	0.0027323	0.0130949	91.878	1.602	90.227	93.427	86.904	0.999	86.026	87.991
1618	ENSG00000117984	CTSD	1.1	0.0154236	0.0515939	42.892	1.766	40.892	44.237	39.354	2.747	36.217	41.326
1619	ENSG00000174080	CTSF	1.2	3.388E-05	0.0003692	35.371	3.375	32.833	39.201	28.930	1.344	27.430	30.027
1620	ENSG00000103811	CTSH	1.1	0.0593293	0.1444209	9.828	0.839	9.204	10.782	9.040	0.732	8.224	9.636
1621	ENSG00000135047	CTSL	1.1	0.0080385	0.0307136	52.747	2.461	50.375	55.289	48.384	1.619	46.536	49.551
1622	ENSG00000256043	CTSO	1.3	0.0194318	0.0615681	2.943	0.252	2.751	3.228	2.218	0.496	1.695	2.681
1623	ENSG00000136943	CTSV	-1.1	0.1182896	0.2403451	34.264	1.109	33.125	35.340	37.155	1.929	34.940	38.461
1624	ENSG00000085733	CTTN	1.1	0.001093	0.0063244	69.665	2.643	66.978	72.261	64.715	1.357	63.715	66.260
1625	ENSG00000143079	CTTNBP2N L	1.1	0.118747	0.2409559	15.251	0.203	15.115	15.484	14.654	0.705	13.840	15.082
1626	ENSG00000142544	CTU1	-1.2	0.1081477	0.2257035	3.359	0.461	2.901	3.823	4.260	1.187	3.438	5.620
1627	ENSG00000174177	CTU2	-1.1	0.1170003	0.2385326	13.213	0.761	12.716	14.089	14.753	1.534	13.277	16.340
1628	ENSG00000107874	CUEDC2	-1.1	0.0293042	0.0847051	64.984	4.845	61.000	70.378	73.439	3.283	70.088	76.649
1629	ENSG00000055130	CUL1	1.1	0.0821352	0.1852452	80.757	3.503	77.054	84.018	78.259	1.268	76.921	79.444
1630	ENSG00000108094	CUL2	-1.1	0.0244796	0.0737485	33.542	1.203	32.333	34.738	37.043	1.049	35.845	37.801
1631	ENSG00000044090	CUL7	-1.4	3.157E-10	1.804E-08	23.130	1.704	21.354	24.751	33.230	1.960	31.236	35.154
1632	ENSG00000112514	CUTA	1.2	3.026E-07	7.07E-06	131.576	2.980	129.228	134.928	110.594	2.021	108.629	112.667
1633	ENSG00000119929	CUTC	1.2	0.004706	0.0201816	43.441	3.124	40.386	46.629	38.553	1.428	37.238	40.072
1636	ENSG00000138161	CUZD1	-2.4	2.55E-16	6.73E-14	6.371	0.210	6.223	6.611	15.504	0.918	14.493	16.284
1638	ENSG00000150316	CWC15	1.1	0.0140117	0.0477878	46.835	1.322	45.343	47.861	43.428	1.720	41.453	44.597
1639	ENSG00000273559	CWC25	-1.1	0.0626445	0.1506479	13.398	0.465	12.930	13.860	15.054	0.455	14.529	15.323
1641	ENSG00000153015	CWC27	-1.2	4.538E-05	0.0004728	52.754	0.598	52.064	53.136	62.180	1.743	60.376	63.854
1642	ENSG00000006210	CX3CL1	2.3	3.13E-13	3.78E-11	6.579	0.778	5.725	7.246	2.864	0.214	2.674	3.096
1645	ENSG00000145824	CXCL14	-1.8	0.0052036	0.0217734	4.444	2.259	2.414	6.878	8.108	1.560	6.969	9.886
1647	ENSG00000163734	CXCL3	-1.2	0.1151301	0.235738	3.204	0.016	3.194	3.223	3.919	0.273	3.610	4.129
1648	ENSG00000163735	CXCL5	1.2	0.0130979	0.0453067	48.982	2.606	46.860	51.891	42.459	7.126	37.220	50.573
1650	ENSG00000180871	CXCR2	1.7	0.0320752	0.0909726	0.794	0.367	0.461	1.188	0.477	0.078	0.387	0.529
1654	ENSG00000121966	CXCR4	-2.3	0.0274699	0.0805361	0.200	0.116	0.066	0.268	0.480	0.104	0.419	0.600
1655	ENSG00000185753	CXorf38	-1.1	0.0913294	0.2004898	8.456	0.203	8.283	8.679	9.493	0.984	8.357	10.080
1657	ENSG00000147231	CXorf57	1.9	2.00E-11	1.564E-09	7.954	0.625	7.429	8.646	4.205	0.127	4.061	4.299
1658	ENSG00000154832	CXXC1	-1.1	0.1114728	0.2305099	19.110	2.783	16.067	21.525	21.172	0.238	20.930	21.407
1659	ENSG00000162144	CYB561A3	-1.1	0.0929479	0.2025548	4.157	0.163	4.054	4.344	4.659	0.092	4.572	4.756
1660	ENSG00000174151	CYB561D1	1.1	0.0890388	0.1964919	5.459	0.526	4.852	5.790	4.931	0.410	4.487	5.295

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1662	ENSG00000166347	CYB5A	-1.1	0.1069373	0.2238365	23.082	1.407	21.733	24.541	24.908	0.907	23.863	25.482
1665	ENSG00000103018	CYB5B	1.2	4.671E-06	6.991E-05	37.936	1.004	37.026	39.013	32.999	0.992	31.855	33.634
1666	ENSG00000100243	CYB5R3	1.1	0.0539601	0.134705	40.337	2.097	38.512	42.628	38.483	1.819	36.825	40.429
1667	ENSG00000215883	CYB5RL	1.1	0.1151916	0.2357541	7.023	0.485	6.493	7.443	6.585	0.499	6.045	7.030
1669	ENSG00000051523	CYBA	-1.1	0.0400577	0.1070801	34.814	1.053	33.623	35.625	38.696	2.603	37.055	41.697
1670	ENSG00000071967	CYBRD1	1.2	0.0058444	0.0239149	7.148	0.669	6.760	7.921	6.062	0.179	5.900	6.255
1671	ENSG00000179091	CYC1	-1.1	0.0147428	0.0497693	115.344	0.983	114.662	116.471	127.948	7.625	122.609	136.681
1672	ENSG00000055163	CYFIP2	1.1	0.0195552	0.0618873	26.523	0.291	26.201	26.769	25.184	0.761	24.656	26.057
1674	ENSG00000187954	CYHR1	-1.2	0.0006506	0.0041432	10.806	0.174	10.681	11.005	12.856	0.875	12.226	13.855
1675	ENSG00000083799	CYLD	1.2	0.0069096	0.0272215	5.731	0.359	5.394	6.109	5.073	0.309	4.728	5.324
1676	ENSG00000140459	CYP11A1	-1.4	0.0005224	0.0034706	4.370	0.064	4.317	4.441	6.144	0.267	5.958	6.450
1677	ENSG00000138061	CYP1B1	1.7	1.218E-08	4.409E-07	7.012	0.445	6.506	7.345	4.184	0.246	4.031	4.468
1678	ENSG00000095596	CYP26A1	-1.8	7.112E-05	0.0006844	2.508	0.660	1.937	3.231	4.487	0.665	3.762	5.069
1679	ENSG00000003137	CYP26B1	-2	0.0298438	0.0859147	0.207	0.106	0.118	0.324	0.429	0.225	0.217	0.666
1681	ENSG00000135929	CYP27A1	1.3	0.0007741	0.0047365	14.104	0.492	13.661	14.634	11.266	0.462	10.829	11.749
1682	ENSG00000197408	CYP2B6	1.8	0.0162323	0.0537282	1.086	0.485	0.803	1.646	0.631	0.319	0.296	0.930
1683	ENSG00000138115	CYP2C8	2.2	0.0021742	0.0108153	1.094	0.246	0.811	1.263	0.498	0.170	0.302	0.608
1685	ENSG00000205702	CYP2D7	-1.7	0.0123928	0.0432914	0.877	0.203	0.753	1.111	1.504	0.196	1.317	1.707
1686	ENSG00000186104	CYP2R1	1.3	5.828E-05	0.0005812	13.676	0.422	13.229	14.067	11.174	0.370	10.832	11.567
1687	ENSG00000167600	CYP2S1	1.1	0.0379666	0.1028063	195.230	4.751	190.249	199.711	186.751	13.211	173.623	200.043
1688	ENSG00000155016	CYP2U1	1.1	0.0236243	0.0717855	7.693	0.692	7.112	8.458	6.864	0.221	6.722	7.118
1689	ENSG00000146233	CYP39A1	1.3	0.0598974	0.1454479	2.285	0.050	2.231	2.327	1.805	0.339	1.609	2.196
1690	ENSG00000171903	CYP4F11	3.3	1.046E-07	2.839E-06	3.873	1.049	3.080	5.063	1.206	0.264	0.926	1.450
1691	ENSG00000145476	CYP4V2	-1.2	0.0847916	0.1895927	1.058	0.110	0.949	1.170	1.303	0.099	1.191	1.378
1694	ENSG00000001630	CYP51A1	1.9	1.509E-08	5.328E-07	6.047	0.294	5.835	6.382	3.284	0.290	3.050	3.609
1695	ENSG00000241095	CYP51A1P1	1.8	1.152E-07	3.086E-06	12.158	1.102	11.188	13.357	6.902	0.722	6.110	7.523
1696	ENSG00000233588	CYP51A1P2	1.8	2.456E-10	1.448E-08	20.288	0.491	19.746	20.701	11.614	0.968	10.653	12.590
1698	ENSG00000142871	CYR61	1.9	0.0001435	0.0012147	219.201	20.569	202.996	242.341	117.570	22.874	94.129	139.832
1699	ENSG00000197191	CYSRT1	-1.4	0.0913713	0.2005033	1.978	0.340	1.608	2.277	2.847	1.075	2.059	4.071
1700	ENSG00000120306	CYSTM1	1.2	0.001903	0.0097874	31.429	1.574	30.479	33.245	27.348	1.061	26.198	28.288
1701	ENSG00000108669	CYTH1	-1.2	0.0001079	0.0009603	7.507	0.230	7.340	7.769	9.449	0.317	9.253	9.814
1702	ENSG00000105443	CYTH2	-1.2	3.909E-05	0.0004171	8.877	0.249	8.617	9.114	11.020	0.616	10.403	11.636
1703	ENSG00000222041	CYTOR	1.6	5.054E-07	1.092E-05	7.215	0.616	6.509	7.647	4.487	0.827	3.572	5.183
1704	ENSG00000166265	CYYR1	1.1	0.0424597	0.1118768	26.349	0.183	26.139	26.463	24.699	1.288	23.680	26.146
1705	ENSG00000180902	D2HGDH	-1.2	0.0015414	0.0082866	6.959	0.459	6.433	7.276	8.810	0.204	8.599	9.006
1706	ENSG00000146122	DAAM2	-1.4	0.0047046	0.0201816	0.507	0.043	0.467	0.552	0.725	0.047	0.696	0.779
1707	ENSG00000173406	DAB1	-1.4	9.779E-05	0.0008873	2.473	0.207	2.271	2.684	3.477	0.282	3.210	3.771
1708	ENSG00000153071	DAB2	1.3	0.0128318	0.0445177	1.829	0.113	1.699	1.895	1.472	0.206	1.338	1.708
1709	ENSG00000136848	DAB2IP	-1.1	0.0013912	0.0076169	17.079	1.046	15.874	17.755	20.002	1.361	19.035	21.559

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1713	ENSG00000197380	DACT3	-1.7	0.0002135	0.0016777	1.161	0.303	0.826	1.417	1.998	0.316	1.806	2.363
1714	ENSG00000164535	DAGLB	-1.1	0.034797	0.0965105	6.948	0.180	6.746	7.092	8.080	0.415	7.828	8.559
1715	ENSG00000226950	DANCR	-1.1	0.0005349	0.0035352	112.212	1.315	110.886	113.516	129.535	1.752	127.521	130.696
1716	ENSG00000229335	DANT1	-1.2	0.073443	0.1699021	17.674	2.605	14.731	19.685	22.390	2.419	20.416	25.089
1718	ENSG00000196730	DAPK1	-1.2	4.504E-07	9.893E-06	41.632	1.099	40.646	42.816	50.224	1.656	48.332	51.413
1720	ENSG00000035664	DAPK2	-1.4	0.0551721	0.1370027	0.257	0.041	0.228	0.304	0.363	0.026	0.333	0.380
1721	ENSG00000167657	DAPK3	1.3	2.76E-06	4.474E-05	36.823	1.127	35.934	38.090	29.872	0.836	29.187	30.804
1722	ENSG00000115866	DARS	-1.1	0.0002405	0.0018526	95.817	3.400	92.862	99.533	109.673	4.885	106.186	115.256
1724	ENSG00000231890	DARS-AS1	-2.1	0.0504423	0.1278866	0.075	0.013	0.068	0.090	0.160	0.074	0.076	0.214
1725	ENSG00000117593	DARS2	1.1	0.0060357	0.0244802	50.592	0.940	49.540	51.349	47.061	1.454	45.830	48.665
1726	ENSG00000204209	DAXX	-1.1	0.0004378	0.0029988	32.608	0.262	32.409	32.905	38.312	1.556	37.380	40.109
1728	ENSG00000006634	DBF4	1.2	1.524E-05	0.0001888	36.551	0.845	35.580	37.120	30.890	0.703	30.423	31.699
1731	ENSG00000161692	DBF4B	-1.1	0.0234783	0.071496	12.406	1.477	11.383	14.100	14.180	0.408	13.709	14.423
1732	ENSG00000235489	DBF4P1	1.3	0.0002419	0.0018604	21.140	0.939	20.055	21.694	16.984	0.490	16.540	17.509
1734	ENSG00000155368	DBI	1.3	1.364E-09	6.443E-08	155.472	3.383	152.745	159.258	124.433	7.757	116.193	131.593
1735	ENSG00000113758	DBN1	-1.1	0.1045813	0.2202993	121.090	2.042	118.745	122.471	130.256	7.239	123.886	138.129
1736	ENSG00000003249	DBNDD1	-1.1	0.0361844	0.099284	25.219	1.243	23.791	26.057	28.092	1.021	26.961	28.946
1737	ENSG00000136279	DBNL	1.3	4.856E-05	0.0005008	5.837	0.181	5.677	6.033	4.739	0.519	4.150	5.133
1738	ENSG00000137992	DBT	1.1	0.0598973	0.1454479	20.674	0.400	20.430	21.135	19.896	0.392	19.593	20.339
1739	ENSG00000122741	DCAF10	-1.1	0.0163415	0.0539737	11.359	0.591	10.755	11.935	12.948	0.960	12.052	13.960
1740	ENSG00000198876	DCAF12	-1.1	0.0541734	0.135072	32.910	1.269	31.446	33.687	36.066	0.566	35.412	36.419
1742	ENSG00000198889	DCAF12L1	1.3	0.0164937	0.0543884	3.359	0.411	3.102	3.833	2.642	0.106	2.571	2.763
1746	ENSG00000164934	DCAF13	-1.1	0.0003543	0.0025281	43.151	3.458	40.757	47.115	50.021	2.632	48.013	53.001
1748	ENSG00000242562	DCAF13P1	-1.3	0.077694	0.1773332	3.193	0.481	2.666	3.608	4.377	0.542	3.763	4.787
1749	ENSG00000119599	DCAF4	1.3	0.0012914	0.0071993	5.706	0.206	5.526	5.930	4.471	0.880	3.558	5.315
1751	ENSG00000136485	DCAF7	-1.1	0.0102397	0.037172	76.117	1.869	73.991	77.499	83.559	2.918	80.283	85.880
1752	ENSG00000132716	DCAF8	-1.1	0.1185441	0.240801	29.231	1.001	28.529	30.377	31.485	1.291	30.421	32.921
1753	ENSG00000172992	DCAKD	1.1	0.0458818	0.1189634	33.699	2.411	30.946	35.433	31.439	1.118	30.629	32.715
1754	ENSG00000164465	DCBLD1	1.2	0.0271388	0.0798035	4.062	0.195	3.943	4.287	3.558	0.399	3.097	3.807
1755	ENSG00000057019	DCBLD2	1.2	6.221E-06	8.894E-05	28.556	1.364	27.546	30.108	24.942	0.334	24.573	25.224
1756	ENSG00000146038	DCDC2	2	1.674E-06	2.91E-05	2.273	0.153	2.117	2.423	1.166	0.316	0.839	1.470
1757	ENSG00000166341	DCHS1	1.1	0.0406739	0.1084058	5.940	0.275	5.637	6.173	5.383	0.824	4.465	6.058
1759	ENSG00000133083	DCLK1	2.4	6.38E-25	1.90E-21	37.311	2.692	34.788	40.144	16.092	0.548	15.493	16.567
1764	ENSG00000163673	DCLK3	1.5	0.0353573	0.0976483	0.567	0.070	0.504	0.641	0.382	0.043	0.334	0.419
1767	ENSG00000198924	DCLRE1A	1.1	0.0445807	0.1162314	22.260	0.631	21.808	22.981	20.718	2.149	18.292	22.383
1769	ENSG00000152457	DCLRE1C	1.4	0.0093005	0.0343224	1.900	0.074	1.845	1.984	1.434	0.168	1.271	1.607
1770	ENSG00000151065	DCP1B	-1.3	1.731E-07	4.409E-06	13.474	1.093	12.833	14.736	18.551	0.450	18.286	19.071
1774	ENSG00000172795	DCP2	-1.1	8.087E-05	0.000759	62.898	1.552	61.599	64.616	73.096	2.610	70.104	74.907
1775	ENSG00000129187	DCTD	1.1	0.0008316	0.0050304	57.183	1.645	55.292	58.287	51.661	2.480	48.914	53.735
1780	ENSG00000166847	DCTN5	1.1	0.0281843	0.0822858	19.990	0.644	19.297	20.571	19.103	0.335	18.846	19.482
1783	ENSG00000104671	DCTN6	-1.2	0.0098922	0.0361378	21.473	1.219	20.275	22.712	25.492	1.342	24.043	26.692
1785	ENSG00000043093	DCUN1D1	1.2	0.0005856	0.0038117	19.940	1.244	18.520	20.843	17.376	0.265	17.206	17.681
1786	ENSG00000188215	DCUN1D3	-1.2	0.0092024	0.0340333	4.270	0.476	3.720	4.561	5.280	0.451	4.772	5.632

	A	B	C	D	E	F	G	H	I	J	K	L	M
1787	ENSG00000109184	DCUN1D4	1.1	0.0079309	0.0304209	15.895	0.524	15.319	16.343	14.473	0.613	13.768	14.883
1792	ENSG00000137692	DCUN1D5	1.1	0.0145989	0.0493998	113.292	1.896	111.301	115.076	107.021	2.058	104.879	108.984
1793	ENSG00000077279	DCX	-1.3	0.000121	0.0010554	3.576	0.253	3.402	3.866	4.706	0.178	4.514	4.866
1794	ENSG00000153904	DDAH1	1.5	4.88E-14	7.37E-12	53.316	0.697	52.543	53.897	36.831	0.916	36.006	37.816
1795	ENSG00000213722	DDAH2	-1.1	0.0153877	0.0515045	54.182	1.935	51.949	55.356	60.555	3.069	57.141	63.087
1797	ENSG00000134574	DDB2	-1.5	1.17E-13	1.59E-11	53.503	1.300	52.116	54.692	80.693	6.455	73.701	86.425
1798	ENSG00000085788	DDHD2	1.2	0.0017084	0.009007	12.095	0.454	11.572	12.394	10.737	0.724	10.099	11.525
1799	ENSG00000175197	DDIT3	3	8.17E-16	1.84E-13	37.112	4.648	31.774	40.261	12.773	2.296	11.365	15.423
1800	ENSG00000168209	DDIT4	1.5	9.48E-13	1.041E-10	86.870	2.287	85.086	89.448	57.690	6.593	52.547	65.123
1801	ENSG00000145358	DDIT4L	-1.1	0.103751	0.219014	4.864	0.358	4.628	5.277	5.712	0.241	5.485	5.965
1803	ENSG00000244038	DDOST	-1	0.0790436	0.179928	216.862	2.125	214.766	219.015	232.292	2.391	229.724	234.455
1805	ENSG00000204580	DDR1	1.1	0.0008721	0.0052304	68.390	2.082	66.053	70.048	63.021	2.553	60.355	65.443
1806	ENSG00000162733	DDR2	3.2	7.00E-15	1.35E-12	2.176	0.089	2.119	2.279	0.684	0.078	0.599	0.753
1807	ENSG00000198171	DDRGK1	-1.3	4.895E-05	0.0005042	37.949	2.826	34.758	40.135	48.649	3.958	44.250	51.924
1808	ENSG00000099977	DDT	-1.1	0.0335607	0.0939444	43.286	0.637	42.561	43.754	49.643	0.949	48.787	50.663
1809	ENSG00000099974	DDTL	-1.2	0.0117668	0.0415734	17.599	1.205	16.256	18.587	21.291	1.312	20.289	22.777
1810	ENSG00000178105	DDX10	-1.1	0.0101724	0.0369832	20.139	0.792	19.413	20.984	22.724	1.275	21.264	23.614
1811	ENSG00000013573	DDX11	1.1	0.1066419	0.2233685	23.492	0.748	22.874	24.324	22.787	0.271	22.502	23.042
1812	ENSG00000214826	DDX12P	-1.1	0.0759863	0.1741639	16.746	0.564	16.172	17.298	18.850	0.341	18.461	19.099
1813	ENSG00000100201	DDX17	-1.1	0.0008006	0.0048687	302.558	14.130	287.867	316.051	338.609	6.085	331.685	343.104
1814	ENSG00000064703	DDX20	1.1	0.0098533	0.0360231	18.963	1.064	18.262	20.188	17.366	0.537	16.864	17.932
1815	ENSG00000165732	DDX21	-1.1	0.0001895	0.0015281	203.484	15.567	190.861	220.879	233.243	7.218	225.525	239.825
1816	ENSG00000174243	DDX23	-1.1	0.0001099	0.0009734	48.348	1.229	47.547	49.762	56.076	1.883	54.164	57.928
1817	ENSG00000089737	DDX24	-1.1	0.0145818	0.0493718	46.415	1.245	45.682	47.853	50.918	2.155	49.255	53.352
1818	ENSG00000109832	DDX25	1.1	0.0631831	0.1516245	9.151	0.886	8.290	10.060	8.591	0.401	8.136	8.893
1819	ENSG00000124228	DDX27	-1.1	0.0005541	0.0036368	34.120	0.408	33.761	34.564	39.359	0.551	38.932	39.981
1820	ENSG00000182810	DDX28	-1.2	0.0216277	0.0670615	11.426	0.400	10.990	11.776	13.770	1.441	12.849	15.431
1821	ENSG00000123136	DDX39A	1.1	0.0511961	0.1293323	43.989	0.920	43.140	44.967	41.543	3.424	37.976	44.802
1822	ENSG00000198563	DDX39B	-1.2	1.963E-08	6.637E-07	36.874	1.421	35.441	38.283	46.433	1.047	45.229	47.118
1823	ENSG00000215301	DDX3X	-1.1	2.794E-06	4.505E-05	121.333	2.340	118.831	123.467	141.972	5.201	136.357	146.624
1824	ENSG00000183258	DDX41	-1.1	0.024605	0.0740469	34.670	0.558	34.275	35.308	38.330	0.980	37.344	39.304
1825	ENSG00000107625	DDX50	-1.1	0.0082032	0.0311988	83.327	1.857	81.199	84.620	92.803	2.135	91.068	95.187
1826	ENSG00000278053	DDX52	1.1	0.0014775	0.0079911	17.670	1.030	16.715	18.761	15.969	0.585	15.597	16.643
1827	ENSG00000111364	DDX55	-1.1	0.0369945	0.100836	15.267	0.841	14.660	16.227	17.092	0.679	16.307	17.504
1828	ENSG00000110367	DDX6	-1.1	0.0212027	0.0660528	62.577	4.283	57.631	65.078	68.432	1.128	67.479	69.677
1829	ENSG00000181381	DDX60L	1.4	0.0044812	0.0194283	1.004	0.059	0.944	1.061	0.737	0.093	0.630	0.792
1830	ENSG00000104325	DECR1	1.1	0.0244876	0.0737593	22.670	1.083	21.780	23.875	20.737	1.144	19.415	21.406
1831	ENSG00000160570	DEDD2	-1.2	0.0001509	0.0012631	23.967	0.807	23.191	24.803	29.546	1.259	28.100	30.399
1832	ENSG00000140995	DEF8	1.1	0.009241	0.0341253	23.489	1.232	22.771	24.912	21.670	0.632	20.972	22.203
1833	ENSG00000124795	DEK	-1.1	0.0414662	0.1099072	261.530	5.662	255.131	265.891	284.992	10.771	276.397	297.075
1834	ENSG00000119522	DENND1A	-1.1	0.0272651	0.0801058	9.898	0.629	9.191	10.394	11.326	0.819	10.463	12.093
1835	ENSG00000205744	DENND1C	-1.6	0.0003096	0.0022666	1.473	0.263	1.312	1.777	2.357	0.219	2.150	2.586
1836	ENSG00000146966	DENND2A	1.4	2.562E-05	0.0002931	7.969	0.264	7.756	8.265	5.987	0.416	5.551	6.380

	A	B	C	D	E	F	G	H	I	J	K	L	M
1837	ENSG00000175984	DENND2C	1.3	0.0066011	0.0262755	3.602	0.265	3.296	3.764	2.942	0.137	2.792	3.059
1838	ENSG00000174485	DENND4A	1.2	0.0234916	0.0715106	3.747	0.236	3.558	4.011	3.299	0.254	3.032	3.538
1839	ENSG00000198837	DENND4B	-1.1	0.0693005	0.1625631	24.979	0.258	24.713	25.227	27.099	1.136	25.812	27.964
1840	ENSG00000184014	DENND5A	1.1	0.0392806	0.1054862	35.205	0.574	34.555	35.644	33.808	0.903	33.038	34.802
1841	ENSG00000174839	DENND6A	1.1	0.0531456	0.1330667	12.104	0.443	11.612	12.474	11.238	0.635	10.638	11.904
1842	ENSG00000139726	DENR	1.1	0.006767	0.0267588	106.104	1.131	105.260	107.389	100.506	1.770	98.539	101.971
1843	ENSG00000024526	DEPDC1	-1.3	0.0003653	0.0025936	51.774	5.592	47.795	58.168	67.124	6.753	61.078	74.412
1846	ENSG00000155792	DEPTOR	-1.4	0.004423	0.0192206	2.805	0.117	2.671	2.874	4.132	0.316	3.850	4.474
1847	ENSG00000023697	DERA	1.4	1.103E-06	2.074E-05	32.665	3.439	28.916	35.675	24.660	2.559	22.592	27.521
1848	ENSG00000136986	DERL1	1.1	0.0447789	0.1166583	22.405	0.533	22.054	23.018	21.319	0.876	20.791	22.330
1849	ENSG00000100418	DES11	1.2	4.31E-05	0.0004533	26.008	1.305	24.647	27.248	22.253	0.513	21.717	22.739
1850	ENSG00000140543	DET1	-1.2	0.0219956	0.0678777	3.956	0.407	3.536	4.348	4.810	0.143	4.651	4.930
1851	ENSG00000160049	DFFA	-1	0.0996994	0.2128254	49.695	0.802	48.773	50.221	53.317	1.911	51.125	54.640
1852	ENSG00000105928	DFNA5	1.3	0.0010185	0.0059641	3.496	0.039	3.452	3.520	2.759	0.246	2.532	3.020
1853	ENSG00000204311	DFNB59	-1.3	0.0499825	0.1269278	3.540	0.510	3.186	4.125	4.588	0.141	4.426	4.689
1854	ENSG00000185000	DGAT1	-1.2	0.0018405	0.0095371	9.333	0.556	8.692	9.686	11.531	0.740	10.786	12.267
1855	ENSG00000062282	DGAT2	1.2	0.0282617	0.0824547	2.268	0.284	1.942	2.469	1.872	0.247	1.710	2.157
1856	ENSG00000070413	DGCR2	-1.1	0.0018083	0.0093959	26.462	0.643	25.788	27.070	30.730	2.640	28.677	33.707
1857	ENSG00000183628	DGCR6	-1.3	0.0562938	0.1389833	1.105	0.084	1.052	1.203	1.459	0.169	1.343	1.653
1858	ENSG00000128185	DGCR6L	1.1	0.0436579	0.1144548	51.717	0.807	50.974	52.576	46.818	6.721	39.577	52.856
1861	ENSG00000128191	DGCR8	-1.1	0.0008883	0.005301	14.863	0.226	14.602	15.011	17.458	0.382	17.202	17.897
1862	ENSG00000136267	DGKB	-2	4.064E-07	9.056E-06	0.708	0.150	0.545	0.840	1.447	0.133	1.358	1.600
1863	ENSG00000077044	DGKD	-1.1	0.0243625	0.0735265	8.899	0.273	8.694	9.210	10.082	0.359	9.718	10.436
1864	ENSG00000153933	DGKE	-1.1	0.0496923	0.126402	5.088	0.490	4.688	5.635	5.779	0.309	5.440	6.045
1865	ENSG00000102780	DGKH	1.3	2.317E-06	3.841E-05	5.320	0.462	5.045	5.853	4.165	0.294	3.974	4.504
1866	ENSG00000274588	DGKK	-1.2	0.0005998	0.0038836	5.793	0.433	5.326	6.179	7.392	0.516	6.877	7.908
1867	ENSG00000179611	DGKZP1	-1.1	0.0806381	0.1824036	36.634	0.544	36.030	37.085	40.414	3.645	38.215	44.621
1868	ENSG00000116133	DHCR24	1.8	8.61E-23	1.04E-19	313.993	8.673	305.503	322.837	181.741	9.443	172.149	191.028
1869	ENSG00000172893	DHCR7	1.7	3.43E-14	5.42E-12	73.951	4.392	70.344	78.842	44.409	4.830	40.518	49.815
1870	ENSG00000117682	DHDDS	1.2	0.0012982	0.0072298	16.791	0.623	16.094	17.293	14.770	0.920	13.867	15.707
1871	ENSG00000228716	DHFR	1.3	9.31E-10	4.604E-08	59.293	2.624	56.376	61.460	45.718	3.491	42.835	49.600
1872	ENSG00000188985	DHFRP1	1.3	5.728E-06	8.366E-05	204.151	17.293	185.634	219.880	163.672	15.586	150.915	181.045
1873	ENSG00000167536	DHRS13	-1.2	0.0087338	0.0326801	10.362	1.641	9.184	12.237	12.846	0.031	12.811	12.871
1874	ENSG00000100867	DHRS2	2	4.823E-05	0.0004977	0.869	0.075	0.789	0.939	0.450	0.035	0.411	0.476
1875	ENSG00000162496	DHRS3	-1.1	0.0777305	0.1773701	8.034	0.224	7.830	8.273	9.309	0.675	8.645	9.994
1876	ENSG00000157326	DHRS4	1.2	0.0079817	0.0305416	9.486	0.762	8.750	10.271	7.861	0.424	7.451	8.298
1877	ENSG00000215256	DHRS4-AS1	1.1	0.0336798	0.0942166	11.548	0.736	10.802	12.274	10.374	0.812	9.750	11.292
1878	ENSG00000100612	DHRS7	1.2	0.001172	0.006683	20.147	1.627	19.059	22.017	17.215	0.698	16.420	17.727
1879	ENSG00000169084	DHRSX	1.3	0.0012456	0.0070106	10.832	1.199	9.462	11.688	8.681	1.428	7.192	10.039
1880	ENSG00000181192	DHTKD1	-1.1	0.0666354	0.1578881	60.288	2.760	57.509	63.029	65.232	2.226	62.666	66.637
1881	ENSG00000109606	DHX15	-1.2	3.4E-07	7.761E-06	131.566	4.224	127.909	136.189	156.035	1.900	153.987	157.740
1882	ENSG00000067248	DHX29	1.1	0.0251056	0.0751923	49.207	0.600	48.560	49.745	46.940	0.389	46.534	47.310

	A	B	C	D	E	F	G	H	I	J	K	L	M
1883	ENSG00000132153	DHX30	-1.2	4.48E-06	6.748E-05	31.303	0.760	30.570	32.088	37.593	1.506	35.977	38.958
1884	ENSG00000089876	DHX32	1.3	3.43E-06	5.366E-05	29.884	2.500	28.227	32.760	23.850	1.714	21.950	25.278
1885	ENSG00000005100	DHX33	-1.1	0.0118299	0.0417093	45.400	1.327	43.868	46.194	50.604	3.053	48.558	54.113
1886	ENSG00000134815	DHX34	-1.2	0.0002899	0.0021532	13.845	1.901	12.502	16.021	17.497	2.004	16.332	19.811
1887	ENSG00000163214	DHX57	1.1	0.087362	0.1937267	16.997	1.309	15.486	17.808	16.183	0.901	15.215	16.998
1888	ENSG00000067596	DHX8	-1.1	0.0701905	0.1641953	21.523	0.764	20.774	22.301	23.374	0.840	22.570	24.245
1889	ENSG00000147202	DIAPH2	-1.2	1.973E-05	0.0002351	39.131	0.198	38.908	39.284	46.594	3.591	43.793	50.643
1890	ENSG00000139734	DIAPH3	-1.1	0.0141041	0.0480607	17.729	1.110	16.850	18.977	20.029	1.134	19.041	21.266
1891	ENSG00000235706	DICER1-AS1	-1.2	0.0033269	0.0153021	7.006	0.589	6.391	7.565	8.870	0.325	8.519	9.160
1892	ENSG00000101191	DIDO1	1.1	0.0235351	0.0715979	23.453	0.729	22.960	24.291	22.334	0.937	21.374	23.246
1893	ENSG00000160305	DIP2A	-1.2	0.0004361	0.0029907	8.804	0.185	8.691	9.017	10.406	0.119	10.287	10.525
1894	ENSG00000066084	DIP2B	-1.1	0.0943055	0.2049674	20.748	0.113	20.620	20.834	22.458	1.664	21.239	24.354
1896	ENSG00000151240	DIP2C	-1.1	0.0843287	0.1889109	8.841	0.907	7.811	9.517	9.857	0.399	9.530	10.301
1897	ENSG00000176490	DIRAS1	-1.2	0.0010734	0.0062344	14.281	1.236	13.006	15.473	17.802	1.672	15.953	19.208
1898	ENSG00000138463	DIRC2	1.2	0.0011556	0.006605	10.999	0.260	10.716	11.228	9.142	0.611	8.465	9.653
1899	ENSG00000083520	DIS3	-1.1	0.0053619	0.0222814	24.283	0.701	23.698	25.059	27.227	0.573	26.862	27.888
1900	ENSG00000166938	DIS3L	1.1	0.0038144	0.0170759	16.202	0.602	15.622	16.823	14.535	0.286	14.306	14.856
1901	ENSG00000144535	DIS3L2	1.2	0.005309	0.0220992	5.737	0.267	5.532	6.039	5.057	0.049	5.000	5.086
1902	ENSG00000204624	DISP3	-1.4	0.0009234	0.0054719	1.882	0.384	1.443	2.159	2.778	0.319	2.445	3.081
1903	ENSG00000150764	DIXDC1	1.1	0.00636	0.0254898	11.941	0.305	11.747	12.293	10.850	0.258	10.552	11.010
1904	ENSG00000130826	DKC1	1.1	0.0793991	0.1802592	113.891	3.247	110.737	117.224	110.793	3.670	107.875	114.913
1905	ENSG00000050165	DKK3	1.3	2.047E-07	5.061E-06	15.986	0.713	15.439	16.792	12.126	0.389	11.748	12.525
1906	ENSG00000008226	DLEC1	1.5	0.0593539	0.1444601	0.444	0.213	0.230	0.656	0.301	0.069	0.225	0.360
1907	ENSG00000176124	DLEU1	-1.2	0.051845	0.1305426	1.750	0.161	1.571	1.882	2.098	0.331	1.888	2.479
1908	ENSG00000231607	DLEU2	1.4	0.0008761	0.005247	2.791	0.231	2.584	3.040	1.987	0.161	1.839	2.158
1910	ENSG00000186047	DLEU7	-1.4	0.0566774	0.1395379	0.886	0.408	0.566	1.345	1.292	0.209	1.091	1.508
1911	ENSG00000075711	DLG1	1.1	0.0032553	0.0150317	21.642	1.099	20.382	22.400	20.017	0.753	19.278	20.783
1912	ENSG00000082458	DLG3	-1.1	0.0531436	0.1330667	25.994	0.473	25.451	26.312	28.253	0.792	27.339	28.732
1913	ENSG00000132535	DLG4	-1.3	3.926E-08	1.218E-06	14.658	0.504	14.183	15.186	19.863	1.142	18.892	21.122
1915	ENSG00000151208	DLG5	1.1	0.0021409	0.0106904	31.426	0.935	30.592	32.436	28.960	1.633	27.395	30.652
1916	ENSG00000170579	DLGAP1	-1.5	1.839E-07	4.66E-06	3.344	0.122	3.212	3.451	4.975	0.604	4.297	5.459
1917	ENSG00000177337	DLGAP1-AS1	1.3	0.0869039	0.1930628	2.956	0.197	2.735	3.114	2.305	0.658	1.586	2.877
1918	ENSG00000262001	DLGAP1-AS2	1.6	1.12E-12	1.213E-10	38.132	1.163	37.063	39.369	24.134	2.577	21.899	26.952
1919	ENSG00000116544	DLGAP3	-1.2	0.0219594	0.0678231	4.718	0.261	4.566	5.020	5.775	0.471	5.371	6.292
1920	ENSG00000232907	DLGAP4-AS1	-2	0.0001997	0.0015955	1.013	0.214	0.788	1.212	2.047	0.229	1.912	2.310
1921	ENSG00000126787	DLGAP5	-1.2	6.855E-07	1.4E-05	269.700	14.645	260.064	286.552	333.771	23.382	313.140	359.169
1922	ENSG00000198719	DLL1	-1.6	1.941E-06	3.305E-05	4.394	0.719	3.616	5.034	7.325	0.556	6.981	7.967
1923	ENSG00000090932	DLL3	-1.8	1.616E-05	0.0001981	3.906	0.561	3.553	4.553	7.011	1.713	5.161	8.543
1924	ENSG00000198947	DMD	-1.2	0.0012473	0.0070138	1.950	0.160	1.765	2.046	2.460	0.197	2.308	2.683

	A	B	C	D	E	F	G	H	I	J	K	L	M
1925	ENSG00000172869	DMXL1	1.1	0.0936943	0.2038138	25.053	0.726	24.221	25.563	24.358	1.175	23.431	25.680
1927	ENSG00000104093	DMXL2	1.1	0.0004609	0.0031319	14.389	0.208	14.244	14.627	12.805	0.842	12.086	13.731
1928	ENSG00000138346	DNA2	-1.1	0.0079945	0.0305816	35.819	2.349	33.755	38.375	40.256	0.440	39.750	40.556
1929	ENSG00000165506	DNAAF2	-1.1	0.0104506	0.0378079	29.319	3.047	26.649	32.638	33.847	1.013	32.726	34.695
1931	ENSG00000105877	DNAH11	-1.9	1.621E-05	0.0001984	0.333	0.080	0.277	0.425	0.643	0.092	0.547	0.730
1932	ENSG00000185842	DNAH14	1.3	1.097E-05	0.0001445	4.639	0.105	4.566	4.759	3.711	0.243	3.431	3.864
1933	ENSG00000039139	DNAH5	1.3	0.0497524	0.1264786	0.399	0.079	0.341	0.488	0.307	0.047	0.255	0.344
1934	ENSG00000086061	DNAJA1	1.1	0.0001722	0.0014135	204.465	0.839	203.940	205.432	185.828	7.980	177.768	193.726
1936	ENSG00000069345	DNAJA2	-1.1	0.0003322	0.0023941	49.805	2.100	47.416	51.362	57.163	0.901	56.202	57.990
1937	ENSG00000103423	DNAJA3	-1.1	0.0844257	0.1890246	22.057	0.286	21.849	22.384	23.986	1.487	22.270	24.883
1938	ENSG00000140403	DNAJA4	1.3	0.0009146	0.0054246	6.203	0.320	5.847	6.465	4.963	0.864	4.229	5.914
1939	ENSG00000132002	DNAJB1	1.1	0.0049066	0.02084	47.244	1.788	45.315	48.844	43.182	1.680	41.267	44.408
1940	ENSG00000090520	DNAJB11	1.1	0.0027267	0.0130718	21.020	0.421	20.641	21.474	18.831	1.821	17.193	20.792
1941	ENSG00000148719	DNAJB12	1.1	0.0786503	0.179129	9.048	0.677	8.520	9.811	8.394	0.504	7.829	8.797
1942	ENSG00000162616	DNAJB4	-1.3	0.000287	0.0021354	12.412	0.509	11.950	12.957	15.960	1.925	14.697	18.175
1943	ENSG00000137094	DNAJB5	1.4	1.79E-12	1.876E-10	46.534	0.560	45.890	46.913	32.859	1.478	31.646	34.505
1944	ENSG00000105993	DNAJB6	1.1	0.0006552	0.0041629	46.574	1.473	45.030	47.965	43.303	0.782	42.753	44.199
1945	ENSG00000077232	DNAJC10	1.2	7.545E-06	0.0001048	26.407	1.258	25.191	27.703	23.351	0.422	23.094	23.839
1946	ENSG00000007923	DNAJC11	-1.1	0.0061206	0.0247511	47.574	1.413	46.516	49.179	53.158	1.328	51.784	54.436
1947	ENSG00000138246	DNAJC13	1.2	3.682E-07	8.337E-06	28.938	1.013	27.781	29.665	24.522	0.089	24.420	24.574
1948	ENSG00000120675	DNAJC15	1.1	0.0538942	0.1345604	6.035	0.318	5.691	6.320	5.531	0.226	5.270	5.665
1949	ENSG00000205981	DNAJC19	1.1	0.0039524	0.0176192	24.663	1.517	23.702	26.412	22.049	0.272	21.870	22.362
1950	ENSG00000168724	DNAJC21	1.1	0.0005445	0.0035852	26.637	1.030	25.681	27.729	23.963	0.639	23.371	24.639
1951	ENSG00000059769	DNAJC25	1.3	0.0003054	0.002242	17.336	0.272	17.025	17.528	14.079	1.100	13.152	15.295
1952	ENSG00000247400	DNAJC3-AS1	1.3	0.0130765	0.0452461	7.908	0.580	7.461	8.563	6.456	0.815	5.560	7.152
1953	ENSG00000101152	DNAJC5	1.2	1.709E-07	4.366E-06	30.615	1.158	29.378	31.674	25.113	0.256	24.842	25.352
1954	ENSG00000168259	DNAJC7	1.2	6.02E-05	0.0005975	27.697	1.131	26.621	28.876	24.512	1.291	23.040	25.450
1955	ENSG00000163879	DNALI1	1.1	0.019958	0.0629171	13.641	0.536	13.022	13.958	12.242	0.745	11.477	12.965
1956	ENSG00000213918	DNASE1	-1.2	0.0025288	0.0122851	4.231	0.271	3.919	4.400	5.085	0.357	4.737	5.451
1957	ENSG00000013563	DNASE1L1	1.2	0.0017318	0.0091019	10.723	0.343	10.497	11.118	8.902	1.041	8.047	10.062
1958	ENSG00000105612	DNASE2	1.4	4.395E-08	1.342E-06	45.528	1.010	44.868	46.690	33.653	2.355	31.268	35.976
1959	ENSG00000187957	DNER	1.3	0.008234	0.0312808	5.470	0.715	4.881	6.266	4.447	0.544	3.828	4.849
1960	ENSG00000179532	DNHD1	-1.9	1.18E-13	1.59E-11	2.573	0.126	2.436	2.685	4.922	0.627	4.225	5.441
1961	ENSG00000106976	DNM1	-1.1	0.0215911	0.0669668	15.436	0.845	14.947	16.412	17.192	0.473	16.719	17.665
1962	ENSG00000079805	DNM2	-1.1	0.0015387	0.008275	23.985	0.531	23.373	24.332	27.233	0.988	26.444	28.341
1963	ENSG00000197959	DNM3	2	9.841E-06	0.0001319	0.889	0.098	0.776	0.951	0.457	0.093	0.359	0.545
1965	ENSG00000107554	DNMBP	-1.1	0.0073461	0.0285552	24.687	1.735	22.685	25.744	27.761	0.561	27.121	28.171
1966	ENSG00000130816	DNMT1	-1.1	0.0045514	0.0196673	50.796	0.580	50.131	51.199	56.125	1.866	54.662	58.227
1967	ENSG00000119772	DNMT3A	1.2	3.96E-06	6.061E-05	29.070	1.732	27.109	30.392	24.889	0.838	24.339	25.853
1968	ENSG00000088305	DNMT3B	-1.1	0.024889	0.0747333	505.597	21.031	482.524	523.694	577.086	62.967	509.672	634.380
1969	ENSG00000067334	DNTTIP2	-1.1	0.0008602	0.0051759	28.397	1.026	27.344	29.395	33.298	1.471	31.952	34.869

	A	B	C	D	E	F	G	H	I	J	K	L	M
1970	ENSG00000149927	DOC2A	-1.2	0.0307043	0.0878386	3.488	0.216	3.269	3.702	4.259	0.696	3.456	4.673
1971	ENSG00000147251	DOCK11	1.3	2.683E-07	6.381E-06	15.435	0.413	14.959	15.685	11.752	0.815	11.062	12.651
1972	ENSG00000134516	DOCK2	1.2	0.0006637	0.0041993	3.592	0.164	3.444	3.768	2.997	0.050	2.940	3.030
1973	ENSG00000088538	DOCK3	1.1	0.019096	0.0608001	10.763	0.793	9.853	11.306	9.808	0.880	8.798	10.408
1974	ENSG00000128512	DOCK4	-1.1	0.0997311	0.2128663	4.942	0.361	4.638	5.341	5.540	0.698	4.781	6.154
1975	ENSG00000147459	DOCK5	1.2	0.0002229	0.0017411	4.179	0.350	3.950	4.582	3.440	0.224	3.269	3.694
1976	ENSG00000130158	DOCK6	-1.2	7.302E-05	0.0006997	6.417	0.270	6.178	6.709	7.961	0.457	7.489	8.402
1977	ENSG00000116641	DOCK7	1.1	0.0001518	0.0012699	8.242	0.211	8.069	8.477	7.350	0.192	7.175	7.555
1978	ENSG00000107099	DOCK8	2.5	5.952E-07	1.247E-05	0.552	0.046	0.525	0.605	0.224	0.080	0.136	0.293
1979	ENSG00000125170	DOK4	-1.2	0.0001315	0.0011304	11.569	0.215	11.357	11.787	14.503	0.930	13.558	15.418
1980	ENSG00000175283	DOLK	1.3	0.0014051	0.0076833	17.110	2.080	15.188	19.318	13.370	1.017	12.647	14.533
1981	ENSG00000167130	DOLPP1	-1.1	0.0407408	0.1085287	32.991	1.749	31.069	34.488	37.182	2.119	35.466	39.551
1982	ENSG00000083097	DOPEY1	-1.1	0.0563962	0.1391234	8.627	0.522	8.025	8.957	9.593	0.075	9.513	9.663
1983	ENSG00000104885	DOT1L	-1.2	1.613E-05	0.000198	16.814	0.649	16.231	17.513	20.981	1.623	19.330	22.575
1984	ENSG00000172269	DPAGT1	-1.2	6.962E-05	0.0006728	19.646	0.770	18.999	20.497	24.239	1.266	22.795	25.159
1985	ENSG0000015413	DPEP1	-2.2	2.97E-11	2.215E-09	3.681	0.306	3.452	4.028	8.422	0.081	8.353	8.511
1987	ENSG00000141096	DPEP3	1.2	0.0528165	0.1324956	7.392	0.968	6.662	8.490	6.176	0.577	5.706	6.820
1989	ENSG00000108963	DPH1	-1.2	0.0034291	0.0156875	5.540	0.389	5.181	5.954	6.868	0.250	6.580	7.036
1990	ENSG00000132768	DPH2	-1.2	0.0001055	0.0009435	32.078	1.802	30.000	33.207	39.149	2.988	37.314	42.596
1991	ENSG00000117543	DPH5	-1.1	0.0356508	0.0981544	45.601	0.851	44.641	46.262	50.263	1.552	48.472	51.238
1992	ENSG00000134146	DPH6	1.1	0.0128748	0.0446393	9.430	0.268	9.151	9.685	8.452	0.478	7.944	8.893
1993	ENSG00000148399	DPH7	-1.1	0.0115894	0.0410754	15.303	0.174	15.111	15.451	17.720	0.227	17.545	17.977
1994	ENSG00000175497	DPP10	-1.2	0.0125455	0.0437038	3.079	0.200	2.937	3.308	3.726	0.171	3.595	3.920
1995	ENSG00000254986	DPP3	1.1	0.0021756	0.0108191	41.777	1.270	40.354	42.795	37.894	1.536	36.130	38.933
1996	ENSG00000197635	DPP4	-1.4	0.0124228	0.0433569	2.140	0.553	1.503	2.498	2.985	0.484	2.623	3.534
1997	ENSG00000130226	DPP6	-1.2	0.0048531	0.0206891	1.632	0.056	1.578	1.690	2.068	0.140	1.934	2.212
1998	ENSG00000176978	DPP7	1.2	0.0113165	0.0402432	11.119	1.378	9.535	12.042	9.260	1.413	7.710	10.475
1999	ENSG00000074603	DPP8	-1.1	0.0635435	0.1522189	13.166	0.389	12.941	13.615	14.432	0.336	14.053	14.693
2000	ENSG00000163530	DPPA2	-1.6	5.023E-07	1.088E-05	10.853	0.478	10.362	11.316	18.211	1.818	16.395	20.031
2001	ENSG00000121570	DPPA4	1.1	0.0002984	0.0022021	497.198	13.683	481.418	505.767	462.156	10.375	454.922	474.043
2002	ENSG00000178904	DPY19L3	1.2	1.142E-05	0.000149	29.116	1.239	27.691	29.946	25.331	0.865	24.503	26.228
2003	ENSG00000092964	DPYSL2	-1.1	0.0616516	0.1485771	44.109	0.392	43.665	44.405	47.731	1.350	46.473	49.157
2004	ENSG00000113657	DPYSL3	-1.4	1.20E-15	2.59E-13	203.733	6.663	197.066	210.391	288.223	7.581	280.265	295.359
2005	ENSG00000151640	DPYSL4	1.4	1.776E-06	3.061E-05	19.482	1.655	17.572	20.500	14.721	1.205	13.347	15.598
2007	ENSG00000157851	DPYSL5	-1.1	0.0944867	0.2052556	3.238	0.554	2.732	3.830	3.763	0.186	3.583	3.955
2008	ENSG00000117505	DR1	-1.1	0.0354296	0.097784	24.747	1.463	23.153	26.031	27.207	0.043	27.162	27.247
2009	ENSG00000162490	DRAXIN	1.3	5.024E-05	0.000515	11.054	0.764	10.384	11.886	8.693	0.586	8.133	9.302
2010	ENSG00000069696	DRD4	-1.4	0.0543334	0.1353773	2.072	0.222	1.816	2.201	3.052	0.297	2.825	3.388
2011	ENSG00000185721	DRG1	-1.1	0.0079466	0.0304571	61.309	1.554	59.570	62.562	68.898	0.900	68.077	69.860
2012	ENSG00000113360	DROSHA	-1.1	0.0022803	0.0112605	36.421	0.722	35.739	37.177	40.771	0.481	40.263	41.220
2013	ENSG00000134755	DSC2	1.2	0.000163	0.0013537	13.547	0.760	12.802	14.322	11.628	0.419	11.271	12.089
2014	ENSG00000134762	DSC3	-1.2	0.0139682	0.0476875	3.184	0.408	2.764	3.578	3.958	0.483	3.467	4.433
2016	ENSG00000136982	DSCC1	1.1	0.0678935	0.1600994	77.650	2.510	76.067	80.544	74.372	3.797	70.238	77.705

	A	B	C	D	E	F	G	H	I	J	K	L	M
2017	ENSG00000171451	DSEL	1.2	0.0087986	0.0328645	3.785	0.894	3.126	4.802	3.103	0.179	2.917	3.274
2018	ENSG00000046604	DSG2	1.1	0.0075688	0.0292945	165.225	6.708	158.685	172.089	157.533	2.519	155.477	160.342
2019	ENSG00000149636	DSN1	-1.1	0.0084694	0.0319156	33.587	1.387	32.202	34.975	38.652	1.776	36.602	39.690
2020	ENSG00000125868	DSTN	1.1	0.0079366	0.0304313	176.462	1.569	175.362	178.259	167.746	3.840	163.405	170.700
2021	ENSG00000248593	DSTNP2	1.3	0.0102234	0.0371208	15.551	0.637	14.831	16.045	12.080	1.647	10.191	13.211
2023	ENSG00000125821	DTD1	1.1	0.022041	0.0679757	43.151	1.931	41.983	45.380	40.568	0.416	40.105	40.912
2024	ENSG00000129480	DTD2	1.1	0.0152072	0.0509911	16.347	1.013	15.381	17.401	14.584	0.469	14.213	15.110
2025	ENSG00000143476	DTL	1.1	0.0025292	0.0122851	44.958	2.316	42.287	46.402	41.163	1.427	39.962	42.740
2026	ENSG00000134769	DTNA	1.6	2.15E-13	2.72E-11	9.703	0.641	9.210	10.428	6.250	0.133	6.097	6.338
2027	ENSG00000104047	DTWD1	-1.1	0.016533	0.0544754	5.748	0.225	5.513	5.962	6.537	0.064	6.469	6.597
2028	ENSG00000169570	DTWD2	1.5	4.13E-06	6.288E-05	8.305	1.483	6.938	9.881	5.678	0.526	5.079	6.064
2029	ENSG00000163840	DTX3L	1.1	0.0931941	0.2029915	8.682	0.334	8.302	8.932	8.014	0.926	7.143	8.987
2030	ENSG00000110042	DTX4	1.2	3.78E-05	0.0004052	16.378	0.533	15.866	16.930	13.777	0.678	13.083	14.437
2031	ENSG00000141994	DUS3L	1.2	0.0040402	0.017907	15.834	0.533	15.374	16.418	13.812	0.771	12.969	14.480
2032	ENSG00000120129	DUSP1	-1.2	0.0268628	0.079138	6.386	1.107	5.192	7.379	8.142	0.542	7.522	8.521
2033	ENSG00000081721	DUSP12	1.3	2.136E-05	0.0002514	38.636	2.975	36.725	42.065	31.171	1.523	29.438	32.298
2034	ENSG00000276023	DUSP14	1.2	0.0016213	0.0086285	29.316	1.116	28.080	30.250	25.338	1.783	23.281	26.445
2035	ENSG00000111266	DUSP16	-1.2	3.602E-06	5.605E-05	42.660	2.640	39.620	44.378	51.827	1.331	50.437	53.089
2036	ENSG00000167065	DUSP18	-1.3	0.0917642	0.2010639	1.098	0.195	0.904	1.295	1.468	0.410	1.082	1.898
2037	ENSG00000158050	DUSP2	1.6	1.006E-06	1.911E-05	15.537	2.452	13.374	18.200	9.706	1.143	8.601	10.884
2038	ENSG00000133878	DUSP26	-1.9	0.0008862	0.0052942	1.252	0.363	1.007	1.670	2.404	0.351	2.134	2.800
2040	ENSG00000108861	DUSP3	1.2	6.08E-05	0.0006024	33.399	1.333	32.160	34.809	29.146	1.405	27.670	30.467
2041	ENSG00000120875	DUSP4	1.7	5.79E-10	3.004E-08	7.765	0.752	7.146	8.602	4.667	0.503	4.109	5.086
2042	ENSG00000138166	DUSP5	1.5	3.873E-09	1.64E-07	25.166	1.283	24.157	26.610	17.294	1.733	15.699	19.139
2043	ENSG00000139318	DUSP6	1.3	3.325E-08	1.043E-06	73.016	3.555	69.341	76.436	55.793	6.918	49.756	63.343
2044	ENSG00000164086	DUSP7	-1.2	0.0067398	0.026683	7.396	0.383	7.032	7.795	8.903	0.172	8.717	9.055
2045	ENSG00000130829	DUSP9	-1.4	0.0653783	0.1554319	1.122	0.340	0.851	1.503	1.655	0.660	0.895	2.085
2046	ENSG00000128951	DUT	-1.1	0.0031685	0.0147342	51.737	1.397	50.695	53.325	58.579	1.394	57.698	60.186
2048	ENSG00000107404	DVL1	-1.2	2.628E-05	0.0002987	29.669	0.798	29.102	30.582	37.190	4.247	33.104	41.581
2049	ENSG00000161202	DVL3	-1.1	0.0061685	0.024911	27.442	0.373	27.130	27.856	30.895	1.099	29.861	32.050
2050	ENSG00000197102	DYNC1H1	-1.1	0.0040868	0.0180609	104.523	1.428	102.913	105.638	114.987	6.406	108.889	121.662
2051	ENSG00000158560	DYNC1I1	1.3	0.0302985	0.0869424	2.217	0.312	2.036	2.577	1.740	0.233	1.571	2.006
2052	ENSG00000135720	DYNC1LI2	-1.1	0.0001455	0.001227	48.367	1.772	46.938	50.350	55.916	0.664	55.419	56.671
2054	ENSG00000138036	DYNC2LI1	1.2	0.0084069	0.031738	8.466	0.604	7.775	8.894	7.356	0.207	7.119	7.499
2056	ENSG00000088986	DYNLL1	1.2	7.235E-05	0.000694	167.885	3.371	164.008	170.123	148.612	12.680	140.276	163.204
2057	ENSG00000264364	DYNLL2	1.1	0.0002325	0.0018038	79.502	4.916	73.898	83.086	72.077	2.293	69.501	73.896
2058	ENSG00000125971	DYNLRB1	1.2	0.0002011	0.0016039	59.287	0.537	58.686	59.718	51.705	3.717	49.526	55.996
2059	ENSG00000146425	DYNLT1	1.1	0.0005822	0.0037917	57.789	0.631	57.237	58.478	51.762	2.323	49.084	53.224
2060	ENSG00000157540	DYRK1A	-1.1	0.0951586	0.2060978	20.381	0.440	20.124	20.889	21.978	0.525	21.517	22.550
2061	ENSG00000105204	DYRK1B	-1.2	0.0491463	0.1254996	4.192	0.205	3.978	4.387	5.151	0.503	4.573	5.490
2062	ENSG00000127334	DYRK2	-1.2	5.742E-06	8.379E-05	19.287	1.046	18.658	20.494	23.907	0.825	23.359	24.855
2063	ENSG00000135636	DYSF	-1.2	0.0019976	0.0101703	3.710	0.241	3.433	3.876	4.727	0.296	4.478	5.054
2064	ENSG00000134874	DZIP1	1.2	1.424E-05	0.0001795	14.970	0.344	14.590	15.262	12.336	1.191	11.310	13.641

	A	B	C	D	E	F	G	H	I	J	K	L	M
2065	ENSG00000101412	E2F1	1.1	0.0808096	0.1826938	24.186	0.671	23.654	24.940	22.605	0.989	21.736	23.682
2066	ENSG00000007968	E2F2	1.2	0.0601387	0.1458874	3.123	0.520	2.570	3.604	2.672	0.185	2.477	2.846
2068	ENSG00000133740	E2F5	1.1	0.0345645	0.0960233	22.787	0.218	22.544	22.964	21.606	0.348	21.255	21.951
2069	ENSG00000169016	E2F6	1.2	0.0013836	0.0075841	12.677	0.666	11.921	13.178	10.693	0.171	10.504	10.837
2071	ENSG00000234764	E2F6P1	1.3	0.076866	0.1757981	8.644	0.414	8.365	9.119	6.987	0.429	6.504	7.325
2072	ENSG00000224688	E2F6P2	1.4	0.1035337	0.2186919	4.395	0.184	4.237	4.596	3.300	0.176	3.104	3.444
2073	ENSG00000167967	E4F1	-1.4	4.811E-06	7.194E-05	5.791	0.401	5.446	6.231	8.133	0.746	7.277	8.648
2074	ENSG00000129518	EAPP	-1.1	0.1195853	0.242221	41.012	1.685	39.275	42.641	44.982	2.454	42.528	47.435
2076	ENSG00000088881	EBF4	-1.5	0.0254772	0.0760641	0.797	0.103	0.721	0.914	1.253	0.364	1.010	1.671
2077	ENSG00000105246	EBI3	1.3	0.079108	0.1799684	4.230	0.461	3.797	4.715	3.311	0.060	3.266	3.379
2078	ENSG00000281649	EBLN3P	-1.1	0.008306	0.0314624	33.088	0.932	32.055	33.864	37.213	2.385	35.740	39.965
2080	ENSG00000117395	EBNA1BP2	1.1	0.0018902	0.0097376	48.500	3.387	45.056	51.827	44.052	0.774	43.217	44.745
2081	ENSG00000147155	EBP	1.3	7.14E-08	2.019E-06	67.595	2.260	65.334	69.853	54.326	1.854	52.282	55.899
2082	ENSG00000123179	EBPL	-1.2	1.429E-06	2.557E-05	89.904	2.422	87.396	92.229	113.720	8.889	103.551	120.010
2083	ENSG00000122882	ECD	-1.1	0.0013363	0.0073859	43.078	2.486	40.872	45.771	49.936	3.096	47.085	53.230
2084	ENSG00000145194	ECE2	-1.3	0.000705	0.0043993	3.075	0.217	2.907	3.320	4.170	0.531	3.603	4.655
2085	ENSG00000171551	ECEL1	1.1	0.0886933	0.195985	15.071	1.232	13.662	15.941	13.792	1.788	11.848	15.366
2086	ENSG00000244280	ECEL1P2	1.2	0.0452894	0.1177707	14.570	2.387	12.102	16.867	12.361	0.877	11.530	13.277
2087	ENSG00000093144	ECHDC1	1.3	1.944E-08	6.589E-07	34.077	0.268	33.848	34.372	27.310	0.490	26.773	27.734
2088	ENSG00000127884	ECHS1	-1.1	0.1089749	0.2269539	104.447	6.368	98.886	111.393	112.927	1.984	110.742	114.615
2089	ENSG00000167969	ECI1	-1.1	0.1198789	0.2426706	23.513	0.877	22.507	24.121	25.864	2.018	24.667	28.194
2090	ENSG00000130159	ECSIT	-1.1	0.0143552	0.0487724	28.580	1.934	27.224	30.795	33.173	1.414	32.110	34.777
2091	ENSG00000114346	ECT2	-1.2	0.0002365	0.0018286	99.980	9.112	94.221	110.485	117.921	3.385	114.895	121.576
2092	ENSG00000158813	EDA	-1.1	0.0207826	0.0650317	7.577	0.341	7.236	7.919	8.818	0.817	7.921	9.519
2093	ENSG00000186197	EDARADD	1.4	0.0030029	0.0141076	2.825	0.203	2.651	3.049	2.024	0.287	1.698	2.236
2094	ENSG00000179151	EDC3	-1.1	0.0134238	0.0462113	24.917	1.484	23.204	25.825	28.080	0.959	27.471	29.185
2095	ENSG00000038358	EDC4	-1.2	0.0002441	0.0018739	15.644	0.400	15.302	16.083	18.624	0.613	18.239	19.331
2096	ENSG00000134109	EDEM1	1.3	2.601E-06	4.275E-05	14.981	1.337	13.757	16.407	11.984	0.514	11.536	12.545
2097	ENSG00000088298	EDEM2	1.3	1.122E-06	2.101E-05	48.479	3.138	44.855	50.309	37.718	2.184	36.013	40.180
2098	ENSG00000116406	EDEM3	-1.2	0.0003603	0.0025601	9.889	0.205	9.668	10.071	11.947	0.523	11.343	12.265
2099	ENSG00000164176	EDIL3	-1.1	0.0219971	0.0678777	34.903	2.972	32.871	38.314	39.295	2.699	37.350	42.376
2100	ENSG00000151617	EDNRA	1.4	0.0021579	0.0107564	3.763	0.528	3.275	4.323	2.754	0.365	2.382	3.111
2101	ENSG00000136160	EDNRB	1.3	0.0869142	0.1930628	21.246	7.612	16.795	30.035	16.214	1.033	15.022	16.813
2102	ENSG00000107938	EDRF1	-1.1	0.0189586	0.0604537	13.190	0.522	12.703	13.741	14.778	0.410	14.337	15.147
2103	ENSG00000102189	EEA1	1.2	0.0028686	0.013572	13.908	0.662	13.144	14.314	12.127	0.484	11.644	12.611
2104	ENSG00000156508	EEF1A1	1.1	4.86E-05	0.0005009	3000.777	12.600	2987.475	3012.532	2768.113	74.830	2712.551	2853.202
2105	ENSG00000228502	EEF1A1P11	1.1	0.0103179	0.0374077	499.732	12.355	487.837	512.499	466.097	12.456	456.546	480.185
2106	ENSG00000214199	EEF1A1P12	1.1	0.0032675	0.015083	100.545	3.629	98.073	104.711	90.525	5.590	84.112	94.364

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2107	ENSG00000250182	EEF1A1P13	1.1	0.0011281	0.0064745	570.674	7.249	562.618	576.669	528.220	14.291	511.729	536.988
2108	ENSG00000249855	EEF1A1P19	1.1	0.0910065	0.2000511	241.774	3.863	237.683	245.360	230.460	16.109	219.180	248.909
2109	ENSG00000241429	EEF1A1P25	1.2	0.030961	0.0884831	22.700	0.820	22.111	23.637	19.572	1.779	18.064	21.533
2110	ENSG00000196205	EEF1A1P5	1.1	1.55E-06	2.74E-05	18152.206	334.440	17766.626	18363.601	16467.706	116.633	16390.497	16601.874
2112	ENSG00000233476	EEF1A1P6	1.1	1.496E-05	0.0001859	8170.583	118.105	8034.477	8246.059	7492.305	174.164	7328.216	7675.043
2113	ENSG00000249264	EEF1A1P9	1.1	0.0292114	0.0845402	97.920	5.475	92.301	103.239	90.375	3.567	87.510	94.370
2115	ENSG00000101210	EEF1A2	-1.2	0.0083876	0.0316933	24.616	0.873	24.068	25.623	29.089	2.434	27.121	31.810
2116	ENSG00000123427	EEF1AKMT 3	-1.3	0.0032555	0.0150317	4.063	0.268	3.866	4.368	5.504	0.619	4.832	6.050
2117	ENSG00000114942	EEF1B2	1.1	0.0001452	0.0012256	214.842	1.315	213.603	216.222	196.309	5.678	189.835	200.443
2118	ENSG00000232472	EEF1B2P3	1.1	8.273E-05	0.0007735	687.254	15.999	669.699	701.014	620.296	34.240	586.731	655.174
2119	ENSG00000213261	EEF1B2P6	1.1	0.1204143	0.2435289	156.419	8.134	151.088	165.781	148.968	11.918	141.719	162.723
2120	ENSG00000167658	EEF2	-1.1	0.0002664	0.0020135	1820.864	24.695	1792.525	1837.777	2052.319	71.197	1982.792	2125.077
2121	ENSG00000118894	EEF2KMT	1.1	0.0413127	0.1096035	17.781	1.068	17.144	19.014	16.323	0.956	15.410	17.316
2122	ENSG00000132394	EEFSEC	1.1	0.0886107	0.1958537	14.032	1.274	12.632	15.124	12.774	0.698	11.994	13.343
2125	ENSG00000185055	EFCAB10	1.2	0.1151194	0.235738	4.536	1.102	3.699	5.784	3.827	0.719	3.094	4.531
2126	ENSG00000140025	EFCAB11	1.2	0.0054947	0.0227274	4.341	0.449	4.055	4.858	3.647	0.302	3.317	3.910
2127	ENSG00000178852	EFCAB13	1.4	0.0086242	0.0323419	1.329	0.215	1.140	1.563	0.938	0.186	0.727	1.076
2128	ENSG00000159658	EFCAB14	1.1	0.0157652	0.052491	40.374	0.404	39.990	40.796	38.266	0.644	37.731	38.980
2129	ENSG00000203666	EFCAB2	1.2	0.0032288	0.0149492	3.735	0.172	3.605	3.929	3.094	0.274	2.928	3.410
2130	ENSG00000186976	EFCAB6	1.9	0.0355981	0.0980743	0.202	0.044	0.155	0.242	0.105	0.037	0.073	0.145
2131	ENSG00000115380	EFEMP1	-1.2	0.0046486	0.0199904	18.960	1.844	17.190	20.870	22.580	1.133	21.277	23.336
2133	ENSG00000183690	EFHC2	-1.2	0.1050396	0.220907	3.094	0.329	2.873	3.472	3.752	0.558	3.110	4.123
2134	ENSG00000184349	EFNA5	-1.2	0.0026286	0.0126987	5.819	0.458	5.544	6.348	7.250	0.510	6.699	7.706
2135	ENSG00000090776	EFNB1	-1.3	0.0051062	0.0214812	5.437	0.310	5.216	5.792	7.155	0.403	6.698	7.457
2136	ENSG00000125266	EFNB2	-1.7	2.387E-10	1.412E-08	5.944	0.448	5.428	6.226	10.119	0.114	9.989	10.202
2137	ENSG00000132294	EFR3A	1.5	2.28E-14	3.82E-12	47.253	0.289	46.929	47.484	31.775	1.908	29.983	33.781
2138	ENSG00000100842	EFS	-1.1	0.0733324	0.1697507	24.803	0.669	24.083	25.406	27.600	1.790	26.531	29.666
2139	ENSG00000138798	EGF	1.3	9.654E-05	0.0008779	5.872	0.691	5.082	6.366	4.451	0.194	4.233	4.603
2140	ENSG00000146648	EGFR	1.4	5.9E-05	0.0005866	2.149	0.023	2.124	2.170	1.578	0.191	1.411	1.786
2141	ENSG00000269858	EGLN2	-1.2	0.0421872	0.1113818	3.813	0.355	3.602	4.223	4.488	0.213	4.339	4.732
2142	ENSG00000129521	EGLN3	1.4	3.994E-08	1.237E-06	7.911	0.446	7.403	8.240	5.715	0.096	5.647	5.825
2143	ENSG00000120738	EGR1	1.2	0.071302	0.1660898	194.133	16.992	174.887	207.062	169.267	19.939	149.509	189.383
2144	ENSG00000179388	EGR3	1.8	1.631E-07	4.179E-06	9.844	2.167	7.755	12.081	5.663	0.794	4.798	6.359
2145	ENSG00000115504	EHBP1	-1.1	0.0983207	0.2106638	20.794	1.282	19.795	22.239	22.582	1.225	21.238	23.635
2146	ENSG00000110047	EHD1	-1.2	0.005848	0.0239149	8.147	0.663	7.385	8.593	9.631	0.446	9.142	10.016

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2147	ENSG0000013016	EHD3	-1.1	0.0406865	0.1084183	9.855	0.521	9.384	10.414	11.296	0.777	10.619	12.145
2148	ENSG00000113790	EHHADH	1.5	1.493E-06	2.658E-05	6.838	0.379	6.403	7.104	4.766	0.283	4.559	5.089
2149	ENSG00000204371	EHMT2	-1.1	0.0048941	0.0208078	46.406	0.818	45.879	47.348	51.487	1.442	50.073	52.956
2151	ENSG00000255302	EID1	1.1	0.0212692	0.0661748	196.541	4.828	191.714	201.370	186.924	7.808	181.847	195.915
2153	ENSG00000176396	EID2	-1.1	0.05786	0.1418241	31.434	1.090	30.382	32.559	35.727	1.496	34.702	37.444
2154	ENSG00000255150	EID3	-1.7	0.0174785	0.0567178	1.547	0.578	1.209	2.214	2.698	0.719	2.239	3.527
2155	ENSG00000173812	EIF1	1.1	0.0126281	0.0439488	161.793	7.351	153.554	167.680	153.914	2.364	152.377	156.636
2156	ENSG00000173674	EIF1AX	1.1	0.0143879	0.048854	165.226	4.386	160.761	169.529	156.664	2.644	153.808	159.027
2157	ENSG00000114784	EIF1B	-1.1	0.0006	0.0038839	82.038	6.553	76.139	89.092	96.066	3.527	92.270	99.242
2158	ENSG00000144895	EIF2A	-1.2	5.194E-05	0.0005279	68.093	2.766	65.062	70.481	80.156	3.028	77.481	83.443
2159	ENSG00000055332	EIF2AK2	1.2	1.713E-05	0.0002082	36.454	1.379	34.898	37.526	32.185	0.765	31.326	32.794
2160	ENSG00000172071	EIF2AK3	1.2	3.096E-05	0.0003427	20.635	0.338	20.269	20.935	17.566	0.803	16.837	18.427
2161	ENSG00000119718	EIF2B2	-1.2	0.0019528	0.009981	13.381	0.788	12.769	14.269	15.839	0.749	15.114	16.609
2162	ENSG00000115211	EIF2B4	-1.1	0.033055	0.092975	19.940	0.053	19.903	20.000	22.238	1.342	21.313	23.778
2163	ENSG00000125977	EIF2S2	1.2	7.201E-06	0.0001007	191.972	3.684	188.438	195.790	170.438	7.926	161.917	177.589
2164	ENSG00000236493	EIF2S2P3	1.2	0.0754627	0.1732221	9.659	1.109	8.475	10.673	8.056	0.356	7.684	8.395
2165	ENSG00000128692	EIF2S2P4	1.2	8.585E-06	0.0001169	340.156	4.733	334.888	344.050	297.048	16.703	278.376	310.567
2166	ENSG00000130741	EIF2S3	1.1	0.0002577	0.0019577	410.199	2.353	407.585	412.147	381.125	6.539	377.223	388.674
2167	ENSG00000107581	EIF3A	-1.2	5.99E-11	4.105E-09	227.852	9.095	222.348	238.350	287.738	2.668	285.780	290.777
2168	ENSG00000106263	EIF3B	-1.1	0.000295	0.0021831	88.331	2.605	85.323	89.841	99.868	3.925	97.382	104.393
2170	ENSG00000100353	EIF3D	-1.1	0.0004498	0.0030651	141.637	3.006	139.797	145.105	160.401	4.497	155.898	164.891
2171	ENSG00000104408	EIF3E	-1.1	0.0101648	0.0369674	228.896	4.146	225.829	233.613	250.626	4.877	245.029	253.962
2172	ENSG00000175390	EIF3F	-1.1	0.0703714	0.1644593	37.607	1.181	36.247	38.372	40.704	2.290	38.980	43.302
2173	ENSG00000233426	EIF3FP3	-1.2	0.0006082	0.0039244	147.852	8.062	141.890	157.024	174.821	3.887	171.778	179.201
2174	ENSG00000147677	EIF3H	-1.1	0.0524527	0.1318567	109.150	1.521	108.231	110.906	117.318	1.461	115.658	118.408
2175	ENSG00000084623	EIF3I	-1.1	0.0017839	0.0092922	228.631	2.505	226.889	231.502	255.425	0.615	254.871	256.087
2176	ENSG00000104131	EIF3J	1.1	0.0006862	0.0043062	82.662	1.854	80.531	83.904	75.167	1.700	73.255	76.507
2177	ENSG00000149100	EIF3M	-1.1	0.0018917	0.0097422	81.171	1.073	80.530	82.409	90.360	3.031	87.864	93.733
2180	ENSG00000161960	EIF4A1	-1.4	3.603E-05	0.0003886	3.260	0.033	3.222	3.279	4.749	0.285	4.426	4.966
2181	ENSG00000229132	EIF4A1P10	-1.1	0.0612273	0.1479338	317.779	5.213	313.377	323.535	342.194	8.028	333.980	350.022
2182	ENSG00000235001	EIF4A1P2	-1.1	0.0593875	0.1445211	97.409	2.050	95.670	99.670	108.340	7.101	101.797	115.892
2184	ENSG00000156976	EIF4A2	-1.2	4.015E-08	1.241E-06	321.584	20.735	309.108	345.519	394.649	6.078	390.917	401.661
2187	ENSG00000224781	EIF4A2P4	-1.4	0.000844	0.0050982	11.347	0.850	10.376	11.959	15.895	2.118	13.814	18.049
2189	ENSG00000063046	EIF4B	-1.1	0.0002294	0.0017834	344.227	1.181	343.388	345.577	384.960	7.873	376.331	391.753
2190	ENSG00000224546	EIF4BP3	-1.1	0.0928145	0.2025032	95.871	5.893	89.170	100.248	104.635	3.561	100.638	107.471
2191	ENSG00000197258	EIF4BP6	-1.1	0.0423001	0.1116101	241.768	8.136	232.788	248.650	261.600	10.164	251.832	272.118
2192	ENSG00000225031	EIF4BP7	-1.1	0.0395581	0.1060128	163.499	4.242	158.839	167.136	178.214	6.779	171.952	185.413
2193	ENSG00000135930	EIF4E2	1.1	0.0172291	0.0561115	40.510	0.874	39.649	41.397	38.316	2.006	36.926	40.615
2194	ENSG00000163412	EIF4E3	1.3	2.991E-05	0.0003328	7.895	0.919	6.890	8.694	6.289	0.178	6.100	6.455
2195	ENSG00000187840	EIF4EBP1	1.2	5.114E-06	7.568E-05	170.980	11.146	160.992	183.003	142.333	10.364	130.695	150.569
2196	ENSG00000148730	EIF4EBP2	-1.2	5.514E-07	1.173E-05	110.877	0.764	110.362	111.754	131.270	5.430	125.200	135.666
2197	ENSG00000243056	EIF4EBP3	-1.5	0.0388399	0.1045187	4.287	0.362	4.060	4.704	6.569	1.899	4.589	8.374

	A	B	C	D	E	F	G	H	I	J	K	L	M
2199	ENSG00000184708	EIF4ENIF1	-1.1	0.0070059	0.0275221	13.537	0.327	13.177	13.817	15.704	0.669	15.038	16.376
2200	ENSG00000229944	EIF4EP2	-1.1	0.1185578	0.240801	319.985	5.506	314.229	325.202	344.239	15.819	326.468	356.783
2201	ENSG00000114867	EIF4G1	1.1	0.0117015	0.0413945	149.301	2.392	146.559	150.953	142.914	3.896	139.707	147.250
2202	ENSG00000075151	EIF4G3	-1.1	0.0113008	0.0401958	45.597	1.185	44.745	46.951	50.005	0.986	48.875	50.696
2203	ENSG00000106682	EIF4H	-1.1	0.0053102	0.0220992	295.147	4.230	290.281	297.939	323.289	6.817	315.426	327.544
2204	ENSG00000233830	EIF4HP1	-1.1	0.0079182	0.0304018	270.422	5.520	265.380	276.321	302.305	14.138	293.750	318.624
2205	ENSG00000100664	EIF5	1.4	0.0004333	0.0029801	76.262	8.959	68.335	85.983	55.702	5.019	51.155	61.088
2207	ENSG00000132507	EIF5A	-1	0.1066215	0.2233685	336.029	6.643	328.359	339.919	358.172	16.413	345.591	376.737
2208	ENSG00000163577	EIF5A2	1.2	0.0569469	0.1400325	4.475	0.275	4.182	4.728	3.957	0.447	3.443	4.250
2209	ENSG00000215319	EIF5P1	1.4	0.0923289	0.2018924	3.107	0.547	2.663	3.718	2.267	0.805	1.423	3.028
2212	ENSG00000242372	EIF6	-1.1	0.0464359	0.1200322	82.734	1.955	80.503	84.149	91.525	5.221	86.247	96.686
2213	ENSG00000006744	ELAC2	-1.2	4.397E-05	0.0004602	35.947	1.493	34.704	37.603	42.362	0.360	42.025	42.742
2214	ENSG00000107105	ELAVL2	-1.1	0.0432151	0.1134404	9.307	0.464	8.928	9.824	10.669	0.919	9.608	11.202
2215	ENSG00000196361	ELAVL3	-1.8	0.003578	0.0162367	0.550	0.064	0.496	0.621	0.995	0.099	0.881	1.052
2216	ENSG00000234678	ELF3-AS1	-1.4	0.1096244	0.2278711	2.186	0.523	1.810	2.783	3.230	1.056	2.359	4.404
2217	ENSG00000166897	ELFN2	-1.2	0.0427535	0.1124556	1.941	0.435	1.664	2.443	2.394	0.133	2.299	2.547
2218	ENSG00000126767	ELK1	1.2	0.0002615	0.0019804	34.163	1.406	32.544	35.076	29.737	0.108	29.661	29.861
2219	ENSG00000158711	ELK4	-1.2	7.609E-06	0.0001056	16.198	1.757	14.251	17.667	20.403	1.206	19.058	21.387
2221	ENSG00000118985	ELL2	1.4	6.593E-09	2.605E-07	36.845	3.695	33.264	40.645	27.138	1.649	25.633	28.900
2222	ENSG00000227295	ELL2P1	1.3	0.0330419	0.0929692	5.233	0.312	4.880	5.472	4.160	0.271	3.952	4.465
2223	ENSG00000179387	ELMOD2	1.1	0.0030954	0.0144702	30.937	0.961	30.252	32.036	28.151	1.129	26.857	28.935
2224	ENSG00000049540	ELN	-1.6	2.656E-05	0.0003013	1.585	0.103	1.490	1.694	2.586	0.349	2.372	2.988
2225	ENSG00000011007	ELOA	-1.1	0.0330345	0.0929639	27.565	0.695	26.779	28.099	30.484	0.665	29.729	30.984
2227	ENSG00000154582	ELOC	1.1	0.0106045	0.0382254	32.021	0.665	31.600	32.788	29.734	1.343	28.784	31.270
2230	ENSG00000197977	ELOVL2	1.6	0.0174579	0.0566838	1.137	0.119	1.034	1.267	0.730	0.081	0.668	0.822
2231	ENSG00000118402	ELOVL4	1.2	0.004816	0.0205742	16.456	0.473	15.917	16.804	14.095	1.495	13.008	15.800
2232	ENSG00000012660	ELOVL5	1.1	0.0002609	0.0019771	202.687	3.877	198.412	205.975	188.028	1.782	185.970	189.090
2233	ENSG00000170522	ELOVL6	1.4	7.66E-15	1.44E-12	64.764	1.373	63.559	66.258	46.124	1.534	44.528	47.588
2234	ENSG00000164181	ELOVL7	1.2	0.0124746	0.0435016	13.886	0.254	13.609	14.109	12.225	1.181	10.928	13.239
2236	ENSG00000134759	ELP2	-1.2	8.466E-06	0.0001156	41.316	1.643	39.467	42.608	48.649	0.825	47.959	49.562
2237	ENSG00000109911	ELP4	-1.2	0.0019228	0.0098604	2.840	0.130	2.734	2.985	3.403	0.216	3.156	3.563
2239	ENSG00000170291	ELP5	-1.1	0.0151466	0.0508181	30.414	0.539	29.870	30.949	34.359	0.927	33.763	35.427
2240	ENSG00000170571	EMB	1.4	2.88E-12	2.814E-10	38.641	1.078	37.434	39.506	27.753	1.196	26.419	28.729
2242	ENSG00000231752	EMBP1	1.2	0.019193	0.0609944	7.815	0.703	7.152	8.553	6.807	0.232	6.541	6.966
2243	ENSG00000127463	EMC1	1.2	2.874E-05	0.0003219	19.917	0.248	19.644	20.129	17.481	0.431	16.986	17.776
2246	ENSG00000104412	EMC2	-1.1	0.0874258	0.1938428	31.166	3.107	27.583	33.096	34.823	2.742	32.079	37.562
2247	ENSG00000125037	EMC3	1.1	0.0962224	0.2076401	15.148	1.596	13.311	16.193	14.123	0.499	13.589	14.578
2248	ENSG00000127774	EMC6	-1.1	0.0758845	0.1739779	66.700	5.100	63.399	72.574	76.565	9.208	69.067	86.843
2249	ENSG00000134153	EMC7	1.1	0.1114406	0.2304843	47.641	1.277	46.271	48.798	45.183	1.600	43.924	46.984
2250	ENSG00000131148	EMC8	-1.1	0.0472203	0.1215763	20.871	1.557	19.786	22.655	23.555	1.855	22.208	25.671
2251	ENSG00000100908	EMC9	1.1	0.1052215	0.2211521	15.640	0.207	15.444	15.855	14.182	0.451	13.789	14.675
2252	ENSG00000154920	EME1	-1.2	0.0010236	0.0059881	19.100	1.172	18.288	20.444	23.316	1.017	22.545	24.469
2253	ENSG00000197774	EME2	-1.3	0.0005754	0.0037515	4.681	0.684	3.977	5.342	6.225	0.511	5.725	6.746

	A	B	C	D	E	F	G	H	I	J	K	L	M
2254	ENSG00000066629	EML1	1.2	0.0084739	0.0319197	5.727	0.491	5.160	6.027	4.992	0.456	4.576	5.480
2255	ENSG00000149499	EML3	-1.1	0.0888191	0.196127	9.180	0.804	8.494	10.065	10.557	1.231	9.241	11.680
2256	ENSG00000143924	EML4	1.1	0.0034045	0.0155959	78.078	2.293	76.248	80.651	73.345	3.104	70.012	76.154
2257	ENSG00000134531	EMP1	1.6	0.0134569	0.0462969	0.560	0.120	0.475	0.697	0.361	0.084	0.279	0.447
2258	ENSG00000142227	EMP3	1.4	1.933E-06	3.3E-05	34.325	3.370	31.374	37.996	25.745	1.114	25.060	27.030
2259	ENSG00000158636	EMSY	-1.1	0.0522579	0.1314452	10.195	0.369	9.849	10.582	11.234	0.580	10.702	11.853
2261	ENSG00000135638	EMX1	1.3	0.0133932	0.0461436	4.081	0.600	3.643	4.764	3.276	0.693	2.478	3.721
2262	ENSG00000171617	ENC1	1.3	3.43E-05	0.0003733	8.952	0.881	7.964	9.659	6.983	0.586	6.310	7.379
2263	ENSG00000167280	ENGASE	-1.1	0.0144327	0.0489669	12.960	0.793	12.278	13.829	15.055	0.232	14.896	15.321
2264	ENSG00000108515	ENO3	-1.1	0.0969622	0.2085883	6.360	0.727	5.832	7.190	7.358	0.823	6.571	8.214
2265	ENSG00000165675	ENOX2	1.1	0.0184477	0.0591962	10.683	0.603	9.993	11.110	9.495	0.404	9.101	9.908
2266	ENSG00000138792	ENPEP	-1.6	0.0227789	0.0698188	0.310	0.106	0.208	0.420	0.500	0.143	0.342	0.621
2268	ENSG00000197594	ENPP1	1.2	1.443E-06	2.576E-05	23.160	1.167	22.202	24.459	19.581	0.559	19.192	20.222
2269	ENSG00000112796	ENPP5	1.3	1.797E-05	0.0002167	20.291	1.380	19.334	21.873	16.313	0.648	15.588	16.836
2270	ENSG00000143420	ENSA	1	0.1206557	0.2438635	81.514	2.533	78.590	83.023	79.570	2.603	76.952	82.157
2271	ENSG00000259032	ENSAP2	1.1	0.038578	0.104029	113.213	6.215	107.867	120.033	102.449	5.393	96.400	106.755
2272	ENSG00000138185	ENTPD1	1.4	1.579E-05	0.0001942	5.280	0.301	4.934	5.482	3.879	0.493	3.340	4.307
2273	ENSG00000054179	ENTPD2	-1.3	0.0184252	0.0591655	3.188	0.139	3.028	3.282	4.361	1.110	3.244	5.465
2274	ENSG00000223797	ENTPD3-AS1	1.4	0.0281781	0.0822819	3.016	0.897	2.365	4.039	2.252	0.367	1.860	2.588
2275	ENSG00000197586	ENTPD6	1.1	0.0018505	0.0095651	24.395	0.582	23.864	25.016	21.900	1.234	20.699	23.165
2276	ENSG00000198018	ENTPD7	-1.2	0.015096	0.0506886	7.207	0.849	6.233	7.792	8.875	0.688	8.111	9.446
2277	ENSG00000163378	EOGT	1.5	3.77E-11	2.757E-09	19.765	0.554	19.293	20.375	13.637	0.816	12.903	14.516
2278	ENSG00000100393	EP300	-1.1	0.0173956	0.0565752	36.395	2.653	33.332	37.961	40.064	1.617	38.397	41.627
2279	ENSG00000183495	EP400	-1.1	0.0430116	0.112994	18.407	0.671	17.728	19.071	20.029	0.556	19.552	20.640
2280	ENSG00000116016	EPAS1	1.3	0.0212183	0.0660894	2.183	0.406	1.714	2.426	1.718	0.326	1.446	2.080
2281	ENSG00000159023	EPB41	1.2	9.811E-07	1.876E-05	53.674	2.145	51.392	55.648	46.941	0.317	46.667	47.288
2282	ENSG00000079819	EPB41L2	1.1	0.0172352	0.0561115	57.997	1.566	56.190	58.959	55.690	1.024	54.649	56.696
2283	ENSG00000082397	EPB41L3	1.3	4.234E-06	6.437E-05	9.486	0.668	8.977	10.243	7.728	0.144	7.590	7.878
2284	ENSG00000224032	EPB41L4A-AS1	1.1	0.0059378	0.0241933	25.612	1.512	23.880	26.668	23.062	0.820	22.158	23.759
2285	ENSG00000095203	EPB41L4B	-1.1	0.0352211	0.0973579	19.199	0.394	18.777	19.557	21.124	0.050	21.090	21.181
2286	ENSG00000119888	EPCAM	-1.1	0.0001055	0.0009435	208.150	2.512	205.764	210.770	237.095	3.034	234.490	240.426
2287	ENSG00000086289	EPDR1	1.4	0.0002922	0.0021657	9.655	0.550	9.027	10.053	7.289	0.948	6.526	8.351
2289	ENSG00000146904	EPHA1	1.1	0.0270373	0.0795825	84.595	2.015	82.378	86.316	81.184	2.348	79.504	83.867
2290	ENSG00000229153	EPHA1-AS1	1.2	0.0421622	0.1113332	4.037	0.382	3.611	4.347	3.459	0.661	2.844	4.158
2291	ENSG00000142627	EPHA2	1.3	0.0006567	0.0041679	33.418	1.805	31.544	35.145	27.114	4.259	22.255	30.197
2292	ENSG00000116106	EPHA4	-1.5	5.554E-05	0.0005579	1.353	0.121	1.251	1.486	2.086	0.184	1.966	2.298
2294	ENSG00000135333	EPHA7	-1.1	0.04571	0.1186091	3.827	0.184	3.717	4.040	4.446	0.318	4.163	4.791
2295	ENSG00000070886	EPHA8	-1.4	0.0060952	0.0246621	1.983	0.522	1.681	2.586	2.746	0.340	2.394	3.072
2296	ENSG00000154928	EPHB1	-1.6	3.262E-08	1.026E-06	2.776	0.299	2.443	3.020	4.669	0.415	4.287	5.110
2297	ENSG00000196411	EPHB4	-1.1	0.0108771	0.0390086	36.692	1.009	35.540	37.423	41.285	2.693	38.686	44.064

	A	B	C	D	E	F	G	H	I	J	K	L	M
2298	ENSG00000143819	EPHX1	1.3	1.462E-07	3.799E-06	47.948	4.518	45.123	53.159	36.352	1.414	34.735	37.354
2299	ENSG00000120915	EPHX2	1.1	0.0643225	0.1535695	8.411	0.515	7.889	8.918	7.673	0.155	7.499	7.797
2300	ENSG00000063245	EPN1	-1.1	0.0219386	0.067815	13.474	0.261	13.309	13.775	15.137	1.313	14.202	16.638
2302	ENSG00000049283	EPN3	-1.6	0.0001643	0.0013614	1.574	0.242	1.380	1.845	2.587	0.345	2.242	2.931
2303	ENSG00000187266	EPOR	-1.1	0.0968217	0.2083834	10.518	0.581	10.065	11.173	12.050	1.343	10.786	13.461
2304	ENSG00000136628	EPRS	1.1	0.0073906	0.0286822	177.911	3.854	173.733	181.327	169.751	5.590	163.307	173.302
2305	ENSG00000085832	EPS15	1.3	4.084E-10	2.217E-08	37.687	0.997	36.792	38.762	29.084	0.719	28.286	29.682
2307	ENSG00000132591	ERAL1	-1.1	0.0831948	0.1870612	74.605	3.485	72.230	78.606	81.405	4.833	76.243	85.824
2308	ENSG00000164307	ERAP1	1.2	0.0016851	0.0089133	11.753	0.511	11.224	12.245	10.353	0.412	9.893	10.689
2309	ENSG00000178568	ERBB4	-1.7	0.0061977	0.0249934	0.239	0.050	0.182	0.272	0.414	0.132	0.263	0.500
2310	ENSG00000082805	ERC1	1.1	0.0250392	0.0750466	9.390	0.587	8.814	9.988	8.742	0.520	8.166	9.175
2311	ENSG00000225830	ERCC6	1.1	0.0319918	0.0908	2.369	0.072	2.288	2.426	2.138	0.040	2.094	2.171
2312	ENSG00000186871	ERCC6L	1.1	0.1242509	0.2493125	26.845	1.217	26.117	28.250	25.780	1.182	24.704	27.046
2314	ENSG00000049167	ERCC8	1.1	0.0988609	0.2116255	13.495	0.633	12.879	14.143	12.598	0.838	11.983	13.552
2316	ENSG00000105722	ERF	1.1	0.0021725	0.0108101	41.928	0.966	40.821	42.593	37.236	3.999	32.668	40.108
2317	ENSG00000157554	ERG	-1.5	0.0245886	0.074011	0.286	0.078	0.196	0.331	0.453	0.069	0.374	0.495
2318	ENSG00000087502	ERGIC2	-1.1	0.0292651	0.0846522	19.591	0.754	18.872	20.375	21.990	1.896	20.241	24.005
2319	ENSG00000125991	ERGIC3	-1.1	0.0342717	0.0954137	41.698	1.514	39.956	42.698	45.761	2.623	43.221	48.460
2320	ENSG00000104626	ERI1	1.1	0.1151937	0.2357541	14.065	0.635	13.524	14.764	13.429	0.168	13.239	13.560
2322	ENSG00000117419	ERI3	-1.2	0.000346	0.0024798	46.619	3.678	43.142	50.470	55.663	3.861	52.239	59.848
2323	ENSG00000104714	ERICH1	1.1	0.0044404	0.0192863	12.036	0.540	11.693	12.658	10.863	0.637	10.302	11.556
2324	ENSG00000240137	ERICH6-AS1	1.9	0.022087	0.0680681	2.510	0.908	1.607	3.423	1.345	0.301	1.135	1.690
2328	ENSG00000068912	ERLEC1	-1.1	0.1079195	0.2254234	53.735	0.583	53.179	54.341	58.404	2.675	55.753	61.102
2329	ENSG00000107566	ERLIN1	1.1	0.0205927	0.064581	35.452	0.735	34.854	36.272	33.586	0.383	33.348	34.029
2330	ENSG00000130023	ERMARD	-1.1	0.0286815	0.0833488	8.912	1.192	7.919	10.234	10.435	0.129	10.302	10.559
2331	ENSG00000197930	ERO1A	1.1	0.0688883	0.1618206	30.890	0.576	30.397	31.523	29.847	0.997	28.698	30.475
2332	ENSG00000086619	ERO1B	-1.1	0.1149648	0.2355422	5.278	0.522	4.685	5.669	5.983	0.248	5.776	6.257
2333	ENSG00000089248	ERP29	1.3	2.29E-10	1.361E-08	160.950	4.015	156.605	164.521	128.812	5.915	124.313	135.512
2334	ENSG00000233347	ERP29P1	1.4	9.564E-05	0.000872	30.448	4.247	27.750	35.343	21.520	2.103	19.827	23.875
2335	ENSG00000116285	ERRFI1	-1.2	0.0001019	0.0009177	16.923	0.996	16.194	18.059	21.138	1.644	19.336	22.557
2336	ENSG00000233056	ERVH48-1	1.3	0.110953	0.2299141	2.189	0.525	1.715	2.753	1.768	0.342	1.409	2.091
2337	ENSG00000267696	ERVK-28	1.6	4.306E-06	6.523E-05	31.637	3.128	28.115	34.091	19.865	0.558	19.252	20.343
2338	ENSG00000269526	ERVV-1	3.6	0.000462	0.0031369	0.706	0.031	0.677	0.738	0.194	0.045	0.142	0.227
2339	ENSG00000268964	ERVV-2	2.7	0.0018524	0.0095722	0.762	0.051	0.729	0.820	0.281	0.128	0.137	0.383
2340	ENSG00000171320	ESCO2	1.1	0.0387841	0.1044016	6.971	0.825	6.353	7.907	6.341	0.240	6.133	6.603
2341	ENSG00000135476	ESPL1	-1.4	7.86E-12	6.957E-10	17.954	0.648	17.446	18.684	25.968	1.515	24.946	27.708
2343	ENSG00000144488	ESPNL	-1.4	0.0376325	0.102098	1.059	0.344	0.716	1.404	1.470	0.225	1.214	1.633
2344	ENSG00000268869	ESPNP	1.5	0.0204117	0.0640844	1.725	0.288	1.395	1.922	1.217	0.239	0.953	1.418
2345	ENSG00000265992	ESRG	-1.4	4.17E-12	3.788E-10	475.344	14.560	460.110	489.119	687.543	53.367	631.723	738.063
2346	ENSG00000104413	ESRP1	-1.2	9.776E-07	1.873E-05	115.228	2.211	112.740	116.965	136.665	3.468	134.198	140.630
2347	ENSG00000103067	ESRP2	-1.1	0.0498041	0.1265719	24.968	0.550	24.630	25.603	27.481	1.055	26.493	28.592
2348	ENSG00000173153	ESRRA	-1.3	0.0004009	0.0028004	17.255	2.306	15.700	19.905	22.786	2.659	19.784	24.845

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2349	ENSG00000196482	ESRRG	-1.2	0.0687401	0.1615622	0.715	0.080	0.623	0.765	0.901	0.011	0.889	0.911
2350	ENSG00000139641	ESYT1	1.1	0.0010363	0.00605	50.868	1.681	48.973	52.178	46.287	3.198	42.595	48.175
2351	ENSG00000117868	ESYT2	2.1	2.22E-22	2.21E-19	169.339	11.336	160.021	181.960	82.211	4.340	78.525	86.994
2354	ENSG00000158220	ESYT3	1.2	0.0205853	0.0645697	3.048	0.139	2.944	3.206	2.654	0.105	2.533	2.725
2355	ENSG00000143971	ETAA1	-1.1	0.0928532	0.2025032	52.401	2.322	50.772	55.060	57.941	4.361	54.395	62.810
2356	ENSG00000140374	ETFA	1.1	0.0570089	0.1401645	44.446	1.018	43.698	45.605	42.695	0.830	42.128	43.648
2357	ENSG00000105379	ETFB	1.1	0.1050275	0.220907	5.182	0.168	4.990	5.300	4.745	0.634	4.015	5.153
2358	ENSG00000205707	ETFRF1	1.3	0.0013028	0.0072475	10.168	0.801	9.244	10.657	7.733	1.445	6.089	8.798
2359	ENSG00000139163	ETNK1	1.1	0.0028903	0.0136469	37.678	0.457	37.251	38.159	33.727	1.811	31.701	35.187
2360	ENSG00000157557	ETS2	-1.2	0.0001364	0.001162	15.964	1.058	14.753	16.708	19.741	1.521	18.048	20.993
2361	ENSG00000006468	ETV1	1.2	0.000142	0.0012025	20.611	0.968	19.497	21.250	18.255	0.482	17.810	18.766
2362	ENSG00000117036	ETV3	-1.1	0.0958263	0.2070666	13.525	0.702	13.021	14.328	14.888	0.714	14.318	15.688
2363	ENSG00000175832	ETV4	1.1	0.0491549	0.1254996	71.239	2.879	68.607	74.314	67.208	8.375	60.320	76.530
2364	ENSG00000244405	ETV5	1.2	6.686E-06	9.47E-05	16.407	0.392	15.991	16.770	13.450	0.937	12.393	14.179
2365	ENSG00000010030	ETV7	1.6	0.0008163	0.00495	4.452	0.464	4.045	4.958	2.882	0.356	2.671	3.294
2366	ENSG00000115363	EVA1A	-1.4	0.0274929	0.080587	1.259	0.188	1.077	1.453	1.863	0.214	1.641	2.068
2367	ENSG00000142694	EVA1B	-1.3	0.0203465	0.0639177	10.966	1.237	9.882	12.314	14.074	1.388	12.952	15.627
2369	ENSG00000187609	EXD3	-1.2	0.008545	0.0321015	3.134	0.153	3.001	3.302	3.976	0.199	3.829	4.202
2371	ENSG00000174371	EXO1	-1.1	0.0966453	0.208145	21.713	2.329	20.257	24.399	23.974	1.141	22.657	24.670
2372	ENSG00000090989	EXOC1	1.1	0.1226615	0.2469144	26.564	0.620	25.996	27.226	25.528	0.677	24.833	26.186
2374	ENSG00000131558	EXOC4	-1.1	0.0509011	0.1287594	25.839	0.238	25.623	26.094	28.173	1.245	27.240	29.586
2375	ENSG00000144036	EXOC6B	-1.1	0.000663	0.0041967	21.097	0.504	20.516	21.405	24.464	1.681	22.556	25.728
2376	ENSG00000182473	EXOC7	1.1	0.027753	0.0812087	23.316	0.287	22.997	23.553	22.128	1.590	20.336	23.368
2377	ENSG00000116903	EXOC8	-1.1	0.0408478	0.1086257	7.954	1.053	6.777	8.806	9.279	0.547	8.648	9.621
2378	ENSG00000157036	EXOG	1.1	0.0397062	0.1063254	8.670	0.752	7.802	9.136	7.779	1.099	7.047	9.043
2379	ENSG00000171824	EXOSC10	-1.1	0.0059637	0.0242812	37.429	1.332	36.523	38.959	41.820	0.594	41.256	42.440
2380	ENSG00000107371	EXOSC3	-1.1	0.0516256	0.1301064	27.552	0.524	27.057	28.101	30.520	0.906	29.847	31.550
2381	ENSG00000077348	EXOSC5	-1.2	0.0020736	0.0104407	48.910	2.578	46.069	51.100	58.289	3.329	56.078	62.118
2382	ENSG00000223496	EXOSC6	-1.3	2.027E-05	0.0002398	12.082	1.051	11.105	13.194	15.831	1.492	14.145	16.979
2383	ENSG00000123737	EXOSC9	1.1	0.0370642	0.1009773	44.039	0.939	43.093	44.971	42.024	1.776	40.104	43.608
2384	ENSG00000110723	EXPH5	-1.2	0.0192825	0.0611983	1.772	0.227	1.552	2.006	2.207	0.304	1.919	2.524
2385	ENSG00000182197	EXT1	1.2	0.0046165	0.0198824	10.425	0.590	9.968	11.092	9.262	0.105	9.141	9.327
2386	ENSG00000151348	EXT2	1.1	0.0096565	0.0354198	42.431	1.867	41.199	44.579	39.585	2.475	37.633	42.369
2387	ENSG00000012232	EXTL3	1.1	0.0057498	0.0236091	34.242	0.622	33.550	34.756	32.248	1.648	31.154	34.143
2388	ENSG00000158161	EYA3	-1.2	0.0013133	0.0072824	12.271	1.210	10.886	13.126	14.742	0.356	14.445	15.136
2389	ENSG00000108799	EZH1	-1.2	2.292E-05	0.0002673	12.668	0.084	12.600	12.762	15.744	0.179	15.557	15.913
2390	ENSG00000106462	EZH2	-1.2	0.0007381	0.0045612	25.963	2.286	23.573	28.130	30.773	0.676	30.016	31.314
2392	ENSG00000092820	EZR	1.1	6.674E-06	9.461E-05	283.266	6.809	276.661	290.263	254.477	8.314	248.932	264.037
2393	ENSG00000158769	F11R	-1.1	5.936E-06	8.573E-05	103.376	1.346	102.121	104.798	120.484	2.532	117.588	122.285
2394	ENSG00000181104	F2R	-1.1	0.0366504	0.1002699	26.314	0.719	25.580	27.016	29.374	1.187	28.417	30.701
2395	ENSG00000164251	F2RL1	-1.1	0.0187209	0.0598313	33.578	2.090	31.882	35.913	37.893	1.097	36.830	39.020
2396	ENSG00000117525	F3	2	1.095E-10	7.013E-09	11.264	0.626	10.675	11.922	5.838	0.080	5.780	5.930
2398	ENSG00000103089	FA2H	1.7	0.0006105	0.0039364	2.636	0.289	2.386	2.953	1.608	0.360	1.192	1.832

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2399	ENSG00000165591	FAAH2	1.3	0.021484	0.0666959	6.504	0.396	6.198	6.952	5.300	0.442	4.923	5.786
2400	ENSG00000121769	FABP3	1.8	1.47E-14	0.62E-12	74.057	4.557	70.513	79.198	42.144	0.074	42.079	42.225
2401	ENSG00000236972	FABP5P1	1.2	0.0416902	0.110328	44.074	1.839	42.593	46.133	38.096	2.057	35.732	39.486
2403	ENSG00000164434	FABP7	1.2	0.0643953	0.1536782	7.349	1.011	6.278	8.286	6.347	0.978	5.383	7.338
2404	ENSG00000149485	FADS1	1.4	2.91E-14	4.78E-12	62.422	0.699	61.808	63.183	46.497	1.978	44.226	47.835
2405	ENSG00000134824	FADS2	1.5	3.52E-18	1.49E-15	103.281	1.968	101.030	104.675	70.688	3.291	67.786	74.263
2409	ENSG00000115042	FAHD2A	1.1	0.0112011	0.0399249	19.853	0.526	19.334	20.386	18.062	0.986	17.278	19.169
2410	ENSG00000231584	FAHD2CP	1.2	0.0192392	0.0610951	19.684	0.690	18.996	20.375	17.449	1.254	16.578	18.886
2411	ENSG00000158234	FAIM	1.3	0.0028124	0.0133912	4.391	0.530	3.882	4.939	3.435	0.152	3.318	3.607
2412	ENSG00000167106	FAM102A	-1.3	1.921E-06	3.282E-05	13.769	0.473	13.321	14.263	18.128	1.331	16.798	19.460
2414	ENSG00000169612	FAM103A1	1.1	0.1047621	0.2205428	29.518	0.810	28.837	30.414	27.525	0.648	27.031	28.258
2416	ENSG00000235272	FAM103A2 P	1.1	0.0807749	0.1826643	94.445	11.606	81.173	102.690	84.962	3.402	82.029	88.692
2417	ENSG00000133193	FAM104A	-1.1	0.0304123	0.0871359	23.765	0.717	23.035	24.467	26.905	1.688	25.621	28.817
2418	ENSG00000145569	FAM105A	1.1	0.0448848	0.1169163	8.886	0.980	8.014	9.947	7.960	0.747	7.395	8.807
2420	ENSG00000065809	FAM107B	1.2	0.0008113	0.004925	13.995	0.977	12.969	14.914	12.241	0.231	12.055	12.500
2422	ENSG00000198324	FAM109A	-1.2	0.0205316	0.0644132	7.477	0.056	7.424	7.536	9.015	1.270	8.132	10.470
2423	ENSG00000125898	FAM110A	-1.2	0.0466936	0.1205265	4.680	0.247	4.448	4.939	5.762	0.538	5.150	6.162
2425	ENSG00000184731	FAM110C	1.6	2.527E-09	1.116E-07	13.610	0.800	12.841	14.437	8.649	0.660	7.945	9.253
2426	ENSG00000166801	FAM111A	1.4	1.043E-08	3.885E-07	17.029	1.267	15.683	18.198	12.751	0.196	12.526	12.887
2427	ENSG00000189057	FAM111B	1.2	0.0147011	0.0496384	10.735	0.535	10.259	11.313	9.414	0.981	8.502	10.452
2428	ENSG00000121104	FAM117A	1.1	0.1150307	0.2356484	18.961	0.431	18.706	19.458	18.018	0.992	17.402	19.163
2429	ENSG00000138439	FAM117B	-1.2	2.625E-05	0.0002986	17.986	1.619	16.254	19.463	22.397	0.667	21.637	22.888
2430	ENSG00000100376	FAM118A	1.1	0.0605474	0.1466883	12.009	0.543	11.565	12.614	11.223	0.618	10.866	11.936
2431	ENSG00000048828	FAM120A	1.2	4.661E-06	6.983E-05	39.364	0.757	38.586	40.098	34.355	1.397	33.231	35.919
2432	ENSG00000188938	FAM120A OS	1.1	0.0350792	0.0971182	22.283	2.514	20.282	25.104	20.433	1.546	19.486	22.216
2434	ENSG00000156500	FAM122C	-1.2	0.1182355	0.2403218	1.421	0.192	1.303	1.643	1.755	0.380	1.406	2.161
2435	ENSG00000150510	FAM124A	-1.4	7.513E-09	2.888E-07	9.973	1.078	9.270	11.213	14.690	1.248	13.471	15.966
2436	ENSG00000124019	FAM124B	-1.2	0.1002754	0.2136431	1.799	0.068	1.752	1.876	2.281	0.580	1.710	2.871
2438	ENSG00000122591	FAM126A	1.2	4.308E-06	6.523E-05	31.015	2.681	28.463	33.808	25.830	0.692	25.107	26.485
2439	ENSG00000135842	FAM129A	1.7	3.02E-12	2.918E-10	8.533	0.404	8.293	9.000	5.088	0.524	4.600	5.642
2443	ENSG00000136830	FAM129B	1.1	0.0137402	0.0470623	50.285	2.776	48.600	53.489	46.961	3.547	44.741	51.052
2444	ENSG00000159784	FAM131B	1.1	0.1204302	0.2435289	27.478	1.576	25.671	28.569	26.434	1.942	24.397	28.264
2445	ENSG00000035141	FAM136A	1.1	0.0020091	0.010201	77.193	4.170	73.367	81.638	70.741	0.703	69.964	71.334
2446	ENSG00000138640	FAM13A	1.1	0.0922908	0.2018772	6.602	0.163	6.417	6.726	6.263	0.604	5.805	6.947
2447	ENSG00000138286	FAM149B1	1.1	0.014315	0.0486849	9.658	0.491	9.236	10.197	8.787	0.330	8.497	9.146

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2448	ENSG00000204442	FAM155A	1.2	0.0083987	0.0317228	3.136	0.312	2.778	3.353	2.616	0.190	2.411	2.787
2450	ENSG00000130054	FAM155B	1.2	0.0078155	0.0300691	13.229	1.024	12.104	14.108	11.617	0.994	10.526	12.471
2451	ENSG00000158863	FAM160B2	1.2	0.0150244	0.0504985	5.250	0.316	4.979	5.597	4.564	0.400	4.214	5.000
2452	ENSG00000170264	FAM161A	1.1	0.1081167	0.2256797	12.276	0.894	11.695	13.306	11.590	0.749	10.911	12.393
2453	ENSG00000114023	FAM162A	-1.2	9.826E-07	1.876E-05	30.880	1.110	30.012	32.130	38.914	2.577	37.003	41.844
2454	ENSG00000196990	FAM163B	-1.4	0.0707379	0.1651104	2.557	0.760	1.965	3.414	3.609	1.082	2.543	4.706
2455	ENSG00000183615	FAM167B	-1.4	0.0029084	0.0137093	9.809	1.210	8.997	11.200	14.141	1.406	12.610	15.373
2456	ENSG00000054965	FAM168A	-1.2	2.851E-06	4.575E-05	13.522	0.346	13.123	13.731	17.000	0.541	16.462	17.544
2458	ENSG00000152102	FAM168B	-1	0.1072238	0.2243014	57.649	1.017	56.677	58.705	61.715	2.454	58.891	63.337
2459	ENSG00000198780	FAM169A	1.3	5.083E-06	7.534E-05	59.309	5.896	55.887	66.117	46.909	2.894	43.986	49.774
2463	ENSG00000144369	FAM171B	1.1	0.0145069	0.0491892	14.252	0.729	13.451	14.876	12.794	1.330	11.489	14.147
2464	ENSG00000185442	FAM174B	1.2	0.0028488	0.0134888	8.927	0.095	8.862	9.036	7.436	0.654	6.916	8.170
2466	ENSG00000163322	FAM175A	-1.1	0.0264957	0.0783164	17.226	1.071	16.337	18.415	19.288	0.921	18.361	20.204
2467	ENSG00000104059	FAM189A1	1.2	0.0117274	0.0414601	5.235	0.222	5.062	5.485	4.477	0.335	4.153	4.823
2468	ENSG00000135063	FAM189A2	1.3	0.0006375	0.004074	12.369	1.900	10.818	14.489	9.983	1.001	8.896	10.868
2469	ENSG00000160767	FAM189B	-1.1	0.0693398	0.16261	19.817	0.946	19.211	20.907	22.080	1.606	20.299	23.418
2470	ENSG00000125386	FAM193A	-1.1	0.0541684	0.135072	8.162	0.719	7.728	8.992	9.276	0.381	8.882	9.641
2471	ENSG00000146067	FAM193B	-1.4	3.088E-10	1.776E-08	16.341	0.234	16.197	16.611	23.369	1.306	21.914	24.441
2472	ENSG00000219438	FAM19A5	1.2	0.0193977	0.0614946	13.775	1.446	12.191	15.025	12.133	0.653	11.435	12.728
2473	ENSG00000221909	FAM200A	-1.1	0.0574864	0.1410891	9.992	1.034	8.883	10.930	11.648	0.484	11.317	12.203
2474	ENSG00000204860	FAM201A	1.2	0.0029187	0.0137541	8.419	0.120	8.290	8.526	6.921	0.755	6.136	7.643
2475	ENSG00000119328	FAM206A	1.2	0.0239559	0.0725584	13.233	1.587	11.463	14.531	11.541	1.402	9.984	12.702
2476	ENSG00000163946	FAM208A	1.1	0.0221262	0.0681393	23.992	0.425	23.537	24.378	22.739	0.878	21.768	23.477
2477	ENSG00000108021	FAM208B	-1.1	0.0012885	0.0071876	26.832	1.246	25.583	28.074	30.762	1.776	29.019	32.570
2478	ENSG00000108950	FAM20A	2.2	8.435E-06	0.0001153	1.504	0.336	1.190	1.858	0.702	0.027	0.673	0.726
2479	ENSG00000124098	FAM210B	1.1	0.0182567	0.0587697	23.337	2.862	21.395	26.623	20.742	2.505	17.869	22.474
2480	ENSG00000197852	FAM212B	-1.1	0.0267249	0.0788415	10.756	0.417	10.293	11.101	12.028	0.089	11.973	12.130
2483	ENSG00000122378	FAM213A	1.3	7.16E-11	4.808E-09	34.847	1.023	34.253	36.028	26.807	0.467	26.518	27.346
2484	ENSG00000196227	FAM217B	1.1	0.0529067	0.1326826	14.040	0.899	13.009	14.655	13.119	0.164	12.948	13.275
2485	ENSG00000250486	FAM218A	1.4	0.0107828	0.0387527	5.426	0.485	4.891	5.838	4.044	0.901	3.380	5.070
2486	ENSG00000164970	FAM219A	1.1	0.091054	0.2001295	10.340	0.199	10.118	10.501	9.431	0.983	8.516	10.471
2487	ENSG00000178397	FAM220A	-1.2	0.0042426	0.0186038	24.218	1.486	22.519	25.275	28.836	0.540	28.401	29.440
2488	ENSG00000188732	FAM221A	1.1	0.0870722	0.1933122	5.297	0.399	4.949	5.733	4.864	0.552	4.310	5.415
2489	ENSG00000173065	FAM222B	-1.2	6.108E-06	8.777E-05	30.643	0.733	30.130	31.482	37.551	1.626	36.332	39.398
2490	ENSG00000269911	FAM226B	-1.3	0.036025	0.0989525	4.093	0.708	3.320	4.710	5.491	0.563	4.872	5.973
2491	ENSG00000166262	FAM227B	1.2	0.027654	0.0809611	3.052	0.096	2.949	3.139	2.573	0.313	2.213	2.772
2492	ENSG00000105058	FAM32A	1.1	0.0088946	0.0331428	93.611	3.559	89.521	95.996	86.608	5.116	82.718	92.404

	A	B	C	D	E	F	G	H	I	J	K	L	M
2493	ENSG00000122376	FAM35A	1.1	0.0007792	0.0047612	35.939	1.882	34.672	38.102	32.177	0.895	31.149	32.778
2494	ENSG00000165874	FAM35BP	1.2	0.0530732	0.1330057	4.371	0.310	4.121	4.718	3.787	0.126	3.647	3.892
2496	ENSG00000196937	FAM3C	1.1	0.0098221	0.0359298	45.277	0.650	44.727	45.994	41.674	1.013	40.699	42.721
2497	ENSG00000183114	FAM43B	-1.8	0.0077816	0.0299797	0.768	0.294	0.517	1.091	1.420	0.308	1.168	1.763
2498	ENSG00000119979	FAM45A	1.2	0.0014825	0.0080133	19.544	2.036	17.508	21.580	17.293	0.181	17.160	17.499
2499	ENSG00000221930	FAM45BP	1.2	1.132E-05	0.0001482	61.252	2.837	58.301	63.958	50.269	2.882	47.976	53.504
2501	ENSG00000112773	FAM46A	-1.2	0.0474532	0.1219907	4.168	0.109	4.052	4.269	4.937	0.528	4.567	5.542
2503	ENSG00000189157	FAM47E	1.2	0.0835299	0.1876899	1.072	0.049	1.018	1.113	0.899	0.103	0.839	1.018
2504	ENSG00000189319	FAM53B	-1.1	0.0561379	0.1386479	6.025	0.238	5.752	6.183	6.946	0.510	6.358	7.274
2505	ENSG00000167695	FAM57A	1.2	0.001066	0.0061955	24.183	2.516	21.608	26.636	20.420	1.438	19.003	21.878
2506	ENSG00000149926	FAM57B	-1.3	0.0002839	0.002119	6.654	0.513	6.062	6.965	8.918	0.414	8.446	9.217
2507	ENSG00000262919	FAM58A	-1.1	0.0653171	0.1553303	15.596	0.386	15.157	15.884	17.918	0.177	17.729	18.081
2508	ENSG00000139146	FAM60A	-1	0.0820953	0.1851797	317.752	16.268	298.968	327.340	339.658	7.085	333.253	347.267
2510	ENSG00000165716	FAM69B	-1.1	0.0680166	0.1603296	28.305	0.923	27.701	29.367	31.816	3.686	28.085	35.456
2511	ENSG00000142530	FAM71E1	1.2	0.0213204	0.0662973	11.951	0.638	11.408	12.653	10.009	0.782	9.223	10.786
2512	ENSG00000135248	FAM71F1	1.7	7.076E-07	1.432E-05	8.361	0.704	7.624	9.025	5.125	0.463	4.591	5.421
2513	ENSG00000196550	FAM72A	-1.3	1.888E-07	4.744E-06	24.291	1.085	23.211	25.380	32.617	2.746	30.536	35.729
2514	ENSG00000188610	FAM72B	-1.3	2.087E-07	5.116E-06	33.103	0.717	32.575	33.920	43.686	2.842	40.933	46.609
2515	ENSG00000263513	FAM72C	-1.2	0.0002671	0.0020156	22.932	0.548	22.406	23.500	29.047	3.215	25.799	32.228
2516	ENSG00000215784	FAM72D	-1.3	1.133E-06	2.114E-05	28.458	0.696	27.973	29.255	38.547	4.334	35.007	43.381
2517	ENSG00000077458	FAM76B	-1.1	0.1236737	0.248449	13.533	0.561	12.911	14.002	14.948	0.599	14.265	15.385
2518	ENSG00000101447	FAM83D	-1.3	5.069E-08	1.509E-06	76.362	0.940	75.666	77.431	97.757	4.999	92.050	101.359
2519	ENSG00000133477	FAM83F	-1.2	0.0001203	0.0010507	4.308	0.226	4.048	4.450	5.331	0.353	5.070	5.733
2520	ENSG00000188522	FAM83G	1.2	0.0007057	0.0044007	18.127	1.391	17.321	19.734	15.979	0.831	15.341	16.919
2521	ENSG00000180921	FAM83H	1.2	0.0003881	0.0027282	36.506	1.293	35.697	37.997	31.150	4.125	27.362	35.545
2522	ENSG00000168672	FAM84B	-1.3	1.7E-05	0.0002067	48.499	3.665	46.312	52.730	64.428	7.630	56.757	72.017
2523	ENSG00000186523	FAM86B1	1.5	4.29E-07	9.485E-06	8.832	0.369	8.426	9.148	6.043	0.794	5.182	6.747
2524	ENSG00000145002	FAM86B2	1.3	0.0041612	0.0183327	11.043	1.174	10.018	12.324	8.362	1.427	7.108	9.915
2525	ENSG00000173295	FAM86B3P	1.4	0.0001738	0.0014246	5.213	0.412	4.815	5.637	3.824	0.450	3.362	4.261
2526	ENSG00000160172	FAM86C2P	1.3	0.0069087	0.0272215	5.619	0.564	4.994	6.090	4.548	0.111	4.431	4.653
2528	ENSG00000244026	FAM86DP	1.5	2.242E-07	5.439E-06	10.163	0.620	9.491	10.713	6.709	0.712	5.889	7.169
2530	ENSG00000171084	FAM86JP	1.3	0.0635436	0.1522189	3.824	0.950	3.050	4.884	3.060	0.675	2.625	3.838
2531	ENSG00000137414	FAM8A1	1.1	0.0436624	0.1144548	24.006	0.774	23.218	24.765	22.405	2.044	21.152	24.764
2532	ENSG00000188343	FAM92A	1.3	7.523E-05	0.0007168	9.249	0.336	8.926	9.597	7.479	0.279	7.207	7.764
2533	ENSG00000157021	FAM92A1P 1	1.2	0.0822262	0.1854255	17.612	0.429	17.158	18.011	15.184	1.279	13.795	16.314
2534	ENSG00000273036	FAM95C	-1.6	0.0047446	0.0203206	1.273	0.099	1.198	1.385	2.138	0.560	1.540	2.650
2535	ENSG00000119812	FAM98A	-1.3	3.353E-08	1.05E-06	36.109	1.744	34.346	37.834	46.654	1.101	45.413	47.512
2536	ENSG00000171262	FAM98B	-1.1	0.0504825	0.1279501	44.866	1.092	43.710	45.882	48.868	2.422	46.411	51.252

	A	B	C	D	E	F	G	H	I	J	K	L	M
2537	ENSG00000181544	FANCB	1.2	0.0059801	0.0243069	16.293	0.725	15.854	17.130	14.062	1.336	12.897	15.521
2538	ENSG00000158169	FANCC	1.1	0.1135218	0.2333205	5.169	0.417	4.869	5.645	4.810	0.365	4.479	5.201
2539	ENSG00000221829	FANCG	1.1	0.0013021	0.0072465	32.164	1.380	30.905	33.639	28.572	1.822	26.506	29.947
2540	ENSG00000197601	FAR1	1.1	0.1190835	0.2414939	63.860	2.416	62.377	66.648	61.638	4.019	59.316	66.279
2541	ENSG00000178162	FAR2P2	1.1	0.0137287	0.0470409	16.958	1.120	15.762	17.982	15.488	0.504	15.118	16.063
2542	ENSG00000240253	FAR2P3	1.2	0.0514431	0.1297444	10.430	0.921	9.789	11.485	8.924	1.218	7.947	10.288
2543	ENSG00000179115	FARSA	-1.1	0.0495149	0.1261024	50.178	2.185	47.847	52.179	55.555	2.092	54.007	57.935
2544	ENSG00000116120	FARSB	1.1	0.0272922	0.0801517	64.920	1.006	63.813	65.779	61.658	1.543	60.248	63.307
2545	ENSG00000026103	FAS	1.3	0.0016668	0.0088401	7.340	1.220	6.010	8.407	5.738	0.775	4.930	6.475
2546	ENSG00000169710	FASN	1.2	0.0189121	0.0603503	180.669	9.187	170.350	187.956	158.447	18.762	146.228	180.049
2547	ENSG00000164896	FASTK	-1.1	0.0701254	0.1640777	21.040	2.013	18.716	22.209	23.473	1.017	22.500	24.530
2548	ENSG00000138399	FASTKD1	-1.1	0.1244163	0.2495288	39.245	2.901	37.020	42.525	42.429	0.569	41.920	43.043
2549	ENSG00000118246	FASTKD2	1.1	0.0020901	0.0105114	29.754	1.551	28.013	30.987	27.159	1.016	26.053	28.050
2550	ENSG00000124279	FASTKD3	-1.2	0.0317941	0.0903601	10.175	1.535	8.917	11.886	12.171	1.169	11.113	13.426
2551	ENSG00000215251	FASTKD5	-1.1	0.02017	0.0634906	18.329	0.783	17.781	19.226	21.230	2.014	19.264	23.290
2552	ENSG00000086570	FAT2	-1.5	0.1088875	0.2267998	0.112	0.021	0.091	0.133	0.168	0.016	0.151	0.182
2556	ENSG00000196159	FAT4	1.3	0.002029	0.0102773	1.246	0.196	1.033	1.419	0.945	0.095	0.847	1.035
2558	ENSG00000149806	FAU	-1.1	0.0152326	0.0510663	225.802	3.238	223.050	229.369	247.401	7.899	238.713	254.149
2559	ENSG00000146267	FAXC	1.5	5.56E-11	3.851E-09	6.744	0.220	6.507	6.942	4.472	0.195	4.328	4.694
2560	ENSG00000170271	FAXDC2	-1.3	0.0002223	0.0017379	6.477	0.895	5.540	7.323	8.486	0.485	7.926	8.781
2561	ENSG00000188878	FBF1	-1.2	0.0477943	0.1226978	2.223	0.168	2.040	2.371	2.700	0.082	2.608	2.765
2563	ENSG00000105202	FBL	-1.1	0.0017871	0.0093029	355.757	4.993	350.763	360.749	395.700	3.281	392.219	398.735
2564	ENSG00000162458	FBLIM1	1.2	1.246E-06	2.278E-05	44.286	0.991	43.154	44.999	37.238	0.583	36.579	37.688
2565	ENSG00000188573	FBLL1	1.7	6.769E-05	0.0006573	7.473	1.070	6.571	8.656	4.465	0.965	3.578	5.493
2566	ENSG00000077942	FBLN1	-1.1	0.0447629	0.1166425	44.196	0.207	43.959	44.338	48.135	2.495	45.381	50.247
2567	ENSG00000163520	FBLN2	-1.2	0.0002944	0.002181	17.183	2.210	15.689	19.722	21.731	2.073	19.907	23.986
2568	ENSG00000138829	FBN2	-1.1	0.020637	0.0646556	13.538	1.021	12.360	14.154	15.096	0.497	14.628	15.619
2569	ENSG00000142449	FBN3	-1.1	0.0099936	0.0364348	14.331	0.612	13.767	14.982	16.363	1.766	14.472	17.970
2570	ENSG00000165140	FBP1	-1.4	0.0196767	0.062181	2.781	0.665	2.303	3.541	4.038	0.539	3.657	4.655
2571	ENSG00000156860	FBR5	-1.2	0.0020435	0.0103226	3.968	0.423	3.498	4.319	5.017	0.253	4.863	5.309
2572	ENSG00000107872	FBXL15	-1.4	0.0001323	0.0011355	6.549	0.402	6.148	6.951	9.277	0.798	8.385	9.922
2573	ENSG00000099364	FBXL19	-1.1	0.0084305	0.0317916	31.188	1.713	29.248	32.489	35.781	4.406	32.378	40.757
2574	ENSG00000112234	FBXL4	1.1	0.0404119	0.1078394	9.614	0.625	8.897	10.042	8.885	0.463	8.384	9.295
2576	ENSG00000118564	FBXL5	1.1	3.088E-05	0.0003421	65.861	1.330	64.508	67.166	58.578	2.261	56.442	60.945
2577	ENSG00000182325	FBXL6	-1.2	0.0165207	0.0544562	8.980	1.220	8.078	10.368	11.061	1.818	9.985	13.161
2578	ENSG00000183580	FBXL7	-1.3	4.126E-06	6.287E-05	9.764	0.402	9.361	10.166	13.122	0.430	12.830	13.615
2579	ENSG00000269190	FBXO17	1.1	0.1178658	0.2398297	8.116	0.997	7.154	9.144	7.488	0.642	6.898	8.172
2580	ENSG00000116661	FBXO2	-1.2	0.0007447	0.0045881	44.714	1.784	43.552	46.768	53.101	3.567	49.659	56.781
2581	ENSG00000135108	FBXO21	-1.1	6.496E-05	0.0006358	30.844	0.665	30.084	31.318	36.211	1.583	35.221	38.036
2582	ENSG00000147364	FBXO25	1.2	0.0036033	0.0163209	5.477	0.045	5.434	5.523	4.797	0.302	4.574	5.141
2583	ENSG00000103264	FBXO31	1.1	0.0156779	0.0522483	7.374	0.540	6.807	7.883	6.552	0.176	6.440	6.755
2584	ENSG00000165355	FBXO33	-1.1	0.0729437	0.1691385	12.272	1.430	10.904	13.757	13.902	0.928	12.864	14.654
2585	ENSG00000178974	FBXO34	-1.2	0.003047	0.0142873	15.472	0.741	14.620	15.969	18.577	1.642	17.585	20.472

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2586	ENSG00000153832	FBXO36	-1.2	0.0123546	0.0431811	7.504	0.637	6.778	7.969	9.094	0.347	8.715	9.396
2587	ENSG00000163013	FBXO41	-1.2	0.0002683	0.0020232	8.068	0.080	7.985	8.146	9.970	0.493	9.577	10.523
2588	ENSG00000132879	FBXO44	-1.1	0.0202076	0.0635688	17.791	1.169	16.441	18.482	20.636	2.421	17.878	22.412
2589	ENSG00000174013	FBXO45	-1.2	0.0005705	0.0037253	16.671	0.817	16.030	17.591	19.834	0.966	18.789	20.693
2590	ENSG00000100225	FBXO7	1.1	0.1137249	0.2335939	26.687	1.283	25.903	28.167	25.913	0.503	25.352	26.323
2591	ENSG00000072803	FBXW11	-1.1	0.0332271	0.0933194	51.645	2.527	48.834	53.729	56.888	0.775	56.227	57.742
2592	ENSG00000109670	FBXW7	-1.1	0.1109536	0.2299141	7.660	0.498	7.238	8.210	8.440	0.363	8.047	8.760
2593	ENSG00000174989	FBXW8	1.2	0.0005525	0.0036278	19.190	1.111	18.024	20.236	16.656	0.925	15.659	17.486
2595	ENSG00000119616	FCF1	1.1	0.0919196	0.2012979	45.609	1.681	44.166	47.454	43.781	0.573	43.128	44.198
2596	ENSG00000275395	FCGBP	-1.5	0.0007873	0.0048073	0.579	0.067	0.506	0.638	0.899	0.113	0.773	0.989
2597	ENSG00000197948	FCHSD1	-1.1	0.0368363	0.1005182	10.839	0.430	10.558	11.334	12.227	0.086	12.174	12.326
2598	ENSG00000079459	FDF1	1.8	1.79E-23	2.75E-20	366.181	11.311	353.189	373.837	210.155	5.980	204.454	216.379
2599	ENSG00000160752	FDPS	1.6	3.91E-20	2.54E-17	183.070	1.597	182.144	184.913	114.807	4.117	110.368	118.498
2600	ENSG00000137714	FDX1	1.1	0.0316691	0.0900959	17.059	1.299	15.668	18.240	15.415	0.158	15.318	15.598
2603	ENSG00000161513	FDXR	-1.2	0.0032383	0.0149808	27.093	2.493	24.794	29.742	33.117	3.288	30.119	36.634
2605	ENSG00000066926	FECH	1.3	2.905E-06	4.653E-05	21.910	0.452	21.535	22.412	17.848	0.962	16.978	18.881
2606	ENSG00000141965	FEM1A	-1.1	0.008285	0.0314165	9.188	0.571	8.542	9.626	10.545	0.342	10.191	10.874
2607	ENSG00000169018	FEM1B	-1.1	3.263E-05	0.0003574	56.003	0.520	55.551	56.571	65.309	0.808	64.488	66.102
2608	ENSG00000145780	FEM1C	-1.1	0.0506685	0.1283062	17.498	0.681	16.740	18.060	19.417	1.056	18.451	20.545
2610	ENSG00000168496	FEN1	-1.1	0.0145952	0.0493995	73.774	3.229	71.426	77.457	81.737	2.235	79.234	83.533
2612	ENSG00000088340	FER1L4	-1.2	0.0974675	0.2093825	1.416	0.282	1.108	1.660	1.724	0.286	1.528	2.053
2613	ENSG00000073712	FERMT2	1.4	7.50E-14	1.08E-11	71.729	2.193	69.223	73.293	53.951	0.978	53.341	55.080
2614	ENSG00000149557	FEZ1	-1.3	2.082E-06	3.518E-05	9.880	0.256	9.605	10.113	13.322	1.034	12.143	14.073
2615	ENSG00000128610	FEZF1	-2	0.0019453	0.009952	0.680	0.194	0.456	0.792	1.419	0.278	1.214	1.736
2616	ENSG00000230316	FEZF1-AS1	-2	0.0029312	0.0138054	0.597	0.183	0.401	0.764	1.215	0.379	0.984	1.652
2617	ENSG00000102302	FGD1	-1.1	0.01839	0.059075	21.542	1.311	20.031	22.374	24.864	2.147	22.564	26.816
2618	ENSG00000127084	FGD3	-1.4	0.023617	0.0717762	0.796	0.114	0.677	0.903	1.128	0.018	1.107	1.142
2619	ENSG00000154783	FGD5	1.2	0.0004276	0.002947	12.203	0.679	11.420	12.629	10.466	0.646	9.754	11.015
2620	ENSG00000180263	FGD6	1.1	0.0042497	0.0186206	21.762	0.507	21.212	22.211	20.144	0.764	19.606	21.019
2621	ENSG00000113578	FGF1	1.9	0.0301974	0.0867259	0.393	0.096	0.282	0.448	0.212	0.057	0.147	0.253
2622	ENSG00000161958	FGF11	-1.3	0.0293166	0.0847051	1.864	0.423	1.459	2.302	2.413	0.347	2.108	2.791
2623	ENSG00000114279	FGF12	1.1	0.1046432	0.22032	5.060	0.816	4.560	6.002	4.614	0.305	4.266	4.835
2625	ENSG00000129682	FGF13	1.2	2.458E-05	0.0002833	10.017	0.793	9.351	10.894	8.662	0.087	8.570	8.742
2626	ENSG00000226031	FGF13-AS1	1.5	0.0001928	0.0015503	13.194	0.912	12.387	14.184	9.155	0.876	8.196	9.911
2627	ENSG00000272143	FGF14-AS2	1.4	0.0036982	0.0166472	10.942	0.795	10.042	11.548	7.927	1.407	6.371	9.110
2628	ENSG00000070388	FGF22	-1.4	0.070818	0.165229	1.067	0.142	0.904	1.169	1.511	0.118	1.398	1.633
2629	ENSG00000174721	FGFBP3	2.4	7.62E-29	5.94E-25	464.956	18.019	449.531	484.762	196.310	5.011	190.570	199.805
2630	ENSG00000077782	FGFR1	-1.1	8.326E-05	0.0007775	122.679	6.395	115.530	127.856	141.317	7.584	133.780	148.947
2631	ENSG00000111790	FGFR1OP2	-1.1	0.0036849	0.0166148	17.298	0.811	16.627	18.199	20.264	0.267	20.090	20.571

	A	B	C	D	E	F	G	H	I	J	K	L	M
2632	ENSG00000066468	FGFR2	-1.2	5.969E-09	2.381E-07	43.487	1.071	42.328	44.441	54.723	0.848	53.867	55.563
2633	ENSG00000068078	FGFR3	1.1	0.0059926	0.0243403	43.733	2.843	41.538	46.944	39.184	2.840	36.457	42.125
2635	ENSG00000127418	FGFRL1	1.4	5.453E-06	8.006E-05	11.925	1.121	10.650	12.760	8.829	0.837	8.173	9.773
2636	ENSG00000137460	FHDC1	1.6	3.96E-13	4.62E-11	20.677	0.302	20.392	20.993	13.552	1.380	12.484	15.111
2637	ENSG00000022267	FHL1	1.1	0.0887365	0.196055	22.934	1.698	21.173	24.562	21.917	0.423	21.428	22.168
2638	ENSG00000115641	FHL2	1.4	7.604E-07	1.524E-05	13.147	1.334	11.609	14.002	9.835	0.859	8.969	10.688
2639	ENSG00000183386	FHL3	1.2	0.0057008	0.0234413	30.429	3.041	27.260	33.323	26.104	3.278	22.318	28.018
2640	ENSG00000135723	FHOD1	-1.2	0.0004965	0.0033374	12.558	0.946	11.496	13.309	15.334	1.045	14.131	16.019
2641	ENSG00000134775	FHOD3	-1.1	0.0360285	0.0989525	4.698	0.328	4.321	4.915	5.452	0.329	5.259	5.832
2643	ENSG00000172500	FIBP	-1.1	0.0042264	0.0185425	25.775	1.819	24.322	27.815	30.144	0.900	29.106	30.710
2644	ENSG00000198855	FICD	1.2	0.1127303	0.2322866	2.718	0.554	2.388	3.359	2.336	0.223	2.151	2.584
2645	ENSG00000112367	FIG4	1.2	2.923E-05	0.0003261	44.028	0.943	42.940	44.598	38.181	0.804	37.447	39.041
2646	ENSG00000132436	FIGNL1	1.3	4.21E-05	0.0004444	11.584	0.492	11.057	12.033	9.341	0.338	8.984	9.656
2647	ENSG00000261308	FIGNL2	-1.1	0.0851448	0.190031	10.200	1.062	9.174	11.294	11.607	0.989	10.470	12.265
2648	ENSG00000118407	FILIP1	-1.4	4.035E-08	1.243E-06	8.139	0.289	7.808	8.344	11.462	0.762	10.585	11.959
2649	ENSG00000145216	FIP1L1	1.1	0.0367005	0.1003582	14.369	0.737	13.727	15.173	13.249	0.834	12.293	13.833
2650	ENSG00000213468	FIRRE	-1.3	1.467E-07	3.807E-06	17.419	0.866	16.580	18.310	23.520	0.442	23.155	24.011
2651	ENSG00000179431	FJX1	1.6	3.428E-05	0.0003733	6.430	0.484	5.966	6.932	4.223	0.546	3.867	4.852
2652	ENSG00000134285	FKBP11	-1.3	3.726E-06	5.765E-05	7.406	0.241	7.138	7.604	10.215	0.374	9.806	10.538
2653	ENSG00000119321	FKBP15	1.1	0.1049754	0.2208269	7.290	0.125	7.160	7.409	6.932	0.130	6.782	7.014
2655	ENSG00000088832	FKBP1A	1.1	0.0093752	0.0345673	165.391	1.700	163.582	166.955	156.986	3.003	153.557	159.148
2656	ENSG00000004478	FKBP4	-1.2	3.638E-06	5.65E-05	117.775	7.048	109.829	123.272	140.291	6.676	135.160	147.839
2657	ENSG00000096060	FKBP5	1.2	2.361E-06	3.907E-05	27.712	0.549	27.079	28.064	24.034	0.444	23.604	24.490
2658	ENSG00000105701	FKBP8	-1.1	0.0278303	0.0814209	187.562	7.732	179.239	194.523	205.034	10.235	194.836	215.305
2659	ENSG00000122642	FKBP9	1.1	0.0434711	0.1140241	6.248	0.681	5.555	6.916	5.555	0.260	5.375	5.854
2661	ENSG00000106692	FKTN	1.2	2.07E-05	0.0002447	15.378	0.734	14.542	15.919	13.015	0.233	12.832	13.277
2662	ENSG00000160688	FLAD1	-1.1	0.0030087	0.014127	30.822	1.365	29.720	32.349	35.527	2.624	32.970	38.214
2664	ENSG00000196924	FLNA	1.1	0.0001687	0.0013888	395.734	22.388	370.528	413.308	356.333	23.532	342.256	383.499
2665	ENSG00000136068	FLNB	-1.1	0.0046145	0.0198792	47.908	1.473	46.245	49.046	53.285	3.210	50.262	56.654
2668	ENSG00000128591	FLNC	2.6	2.165E-06	3.626E-05	19.807	2.307	17.184	21.516	7.741	0.968	6.753	8.688
2670	ENSG00000185070	FLRT2	1.4	0.0007736	0.0047353	0.677	0.110	0.585	0.800	0.508	0.077	0.454	0.596
2672	ENSG00000125848	FLRT3	1.9	0.0395395	0.1059797	0.380	0.215	0.230	0.626	0.202	0.093	0.096	0.271
2673	ENSG00000102755	FLT1	1	0.1168197	0.2382744	35.444	1.048	34.250	36.209	34.613	1.539	32.849	35.683
2674	ENSG00000162769	FLVCR1	1.2	2.694E-05	0.000305	25.719	1.147	24.769	26.993	22.267	0.935	21.190	22.875
2675	ENSG00000198468	FLVCR1-AS1	-1.2	0.0635923	0.1522776	3.959	0.592	3.295	4.430	4.883	0.306	4.568	5.178
2676	ENSG00000162076	FLYWCH2	1.1	0.1186133	0.2408016	20.459	1.159	19.590	21.775	18.578	3.028	16.728	22.072
2677	ENSG00000155816	FMN2	1.3	0.0849931	0.1898678	0.673	0.068	0.595	0.716	0.543	0.040	0.497	0.568
2678	ENSG00000184922	FMNL1	1.1	0.0824204	0.1857396	3.474	0.272	3.198	3.742	3.107	0.464	2.644	3.571
2679	ENSG00000157827	FMNL2	-1.1	0.0022665	0.0112021	48.512	2.001	46.462	50.461	55.363	3.655	51.314	58.419
2680	ENSG00000161791	FMNL3	1.3	1.444E-06	2.576E-05	6.379	0.477	5.862	6.803	5.059	0.114	4.960	5.185
2681	ENSG00000115414	FN1	1.2	1.024E-05	0.0001361	27.377	1.188	26.678	28.749	23.822	1.851	22.583	25.951
2682	ENSG00000167363	FN3K	-1.2	0.0463757	0.1199117	6.401	0.179	6.195	6.520	7.555	0.699	6.767	8.102

	A	B	C	D	E	F	G	H	I	J	K	L	M
2683	ENSG00000109920	FNBP4	-1.1	0.0073339	0.0285275	41.185	1.505	39.463	42.245	45.816	1.763	44.774	47.851
2684	ENSG00000102531	FNDC3A	1.1	0.0002327	0.0018039	25.993	0.562	25.373	26.468	23.246	0.471	22.837	23.760
2685	ENSG00000115226	FNDC4	1.2	0.0150168	0.050483	19.607	1.440	17.953	20.573	16.904	0.431	16.588	17.395
2686	ENSG00000217128	FNIP1	1.2	0.0001111	0.0009829	14.212	0.218	13.961	14.361	12.039	0.950	11.067	12.965
2687	ENSG00000052795	FNIP2	1.3	9.064E-06	0.0001225	4.693	0.383	4.293	5.057	3.582	0.256	3.332	3.844
2688	ENSG00000257365	FNTB	1.3	0.0088338	0.032967	4.402	0.227	4.189	4.640	3.489	0.435	3.128	3.973
2689	ENSG00000188352	FOCAD	1.1	0.090857	0.1998004	23.498	0.094	23.426	23.605	22.780	0.671	22.150	23.485
2690	ENSG00000133393	FOPNL	-1.1	0.078859	0.1795559	72.060	2.340	69.477	74.038	78.326	3.037	74.962	80.865
2693	ENSG00000170345	FOS	1.2	0.0342083	0.0953913	12.217	1.462	10.533	13.159	10.756	1.668	9.688	12.679
2694	ENSG00000175592	FOSL1	1.2	0.0050349	0.0212622	23.994	2.350	21.531	26.211	20.051	2.724	17.283	22.729
2695	ENSG00000075426	FOSL2	2	7.89E-11	5.215E-09	4.822	0.795	4.105	5.677	2.432	0.248	2.148	2.612
2697	ENSG00000170608	FOXA3	-1.1	0.07664	0.1753771	15.591	1.523	14.019	17.060	17.796	0.617	17.130	18.350
2698	ENSG00000171956	FOXB1	-1.4	0.0791658	0.1800608	0.738	0.322	0.368	0.948	1.076	0.169	0.909	1.246
2699	ENSG00000160973	FOXH1	-1.4	4.605E-08	1.393E-06	39.288	3.112	35.746	41.583	54.249	4.441	49.539	58.361
2700	ENSG00000214336	FOXI3	-1.1	0.0067877	0.0268036	25.866	0.908	25.011	26.819	30.215	1.017	29.437	31.366
2701	ENSG00000129654	FOXJ1	-1.4	0.004298	0.0187982	4.413	0.496	3.916	4.908	6.192	1.240	4.763	6.988
2703	ENSG00000198815	FOXJ3	-1.1	0.0162331	0.0537282	28.905	1.472	27.342	30.264	32.039	0.446	31.632	32.515
2704	ENSG00000206262	FOXL2NB	1.2	0.0514712	0.1297946	5.111	0.653	4.404	5.690	4.404	0.647	3.911	5.137
2705	ENSG00000170802	FOXN2	1.1	0.0344674	0.0958165	17.126	0.478	16.766	17.668	15.955	0.398	15.590	16.379
2706	ENSG00000053254	FOXN3	-1.1	6.024E-05	0.0005976	47.772	2.783	46.160	50.986	55.385	1.012	54.260	56.221
2707	ENSG00000150907	FOXO1	-1.3	1.065E-07	2.877E-06	22.293	0.437	21.803	22.640	28.740	1.903	26.672	30.416
2708	ENSG00000118689	FOXO3	1.2	0.0006767	0.004264	13.521	0.936	12.468	14.260	11.779	0.394	11.364	12.147
2709	ENSG00000184481	FOXO4	-1.2	0.0007332	0.0045391	15.711	0.710	15.128	16.501	19.550	1.902	18.149	21.716
2710	ENSG00000137166	FOXP4	-1.3	0.0006611	0.0041895	4.129	0.613	3.494	4.717	5.586	0.541	5.085	6.160
2711	ENSG00000100350	FOXRED2	1.3	0.000572	0.003734	13.143	2.232	10.642	14.933	10.437	0.928	9.456	11.302
2713	ENSG00000254685	FPGT	1.2	0.0250048	0.0749968	5.033	0.597	4.345	5.408	4.202	0.686	3.434	4.752
2714	ENSG00000138759	FRAS1	1.1	0.0051019	0.0214718	64.569	1.735	62.819	66.288	61.488	1.721	60.334	63.467
2716	ENSG00000181274	FRAT2	-1.5	1.58E-12	1.67E-10	42.651	2.044	40.326	44.167	66.293	4.135	61.687	69.683
2717	ENSG00000150893	FREM2	-1.2	2.991E-06	4.773E-05	19.939	0.911	18.897	20.580	23.978	0.878	23.300	24.969
2718	ENSG00000109536	FRG1	1.1	0.0049317	0.020931	54.254	0.672	53.582	54.927	48.239	4.530	44.907	53.397
2719	ENSG00000282826	FRG1CP	1.5	1.03E-05	0.0001366	28.413	1.898	27.142	30.595	18.932	1.550	17.322	20.413
2720	ENSG00000172159	FRMD3	-1.5	0.0170823	0.0557854	0.502	0.099	0.433	0.615	0.778	0.095	0.675	0.862
2722	ENSG00000151474	FRMD4A	1.2	2.266E-05	0.000265	8.402	0.613	7.804	9.028	6.967	0.366	6.548	7.229
2723	ENSG00000139926	FRMD6	1.1	0.010666	0.0383899	7.535	0.171	7.374	7.715	6.769	0.237	6.505	6.960
2725	ENSG00000126391	FRMD8	1.2	0.0108064	0.0388042	13.974	0.658	13.302	14.617	12.377	1.298	11.259	13.801
2726	ENSG00000147234	FRMPD3	-1.6	0.0007648	0.0046899	0.561	0.078	0.516	0.651	0.942	0.247	0.661	1.127
2727	ENSG00000166225	FRS2	-1.1	0.0183178	0.0589103	14.243	0.349	13.843	14.483	16.152	0.752	15.654	17.018
2728	ENSG00000073910	FRY	1.2	0.0206966	0.0647866	2.248	0.171	2.072	2.414	1.945	0.169	1.773	2.111
2729	ENSG00000075539	FRYL	-1.1	0.0171558	0.0559499	10.127	0.096	10.027	10.219	11.296	0.345	11.089	11.695
2730	ENSG00000162998	FRZB	1.6	0.0071013	0.0278213	1.735	0.477	1.261	2.215	1.086	0.275	0.792	1.335
2731	ENSG00000265817	FSBP	-1.5	0.002478	0.0120778	1.469	0.065	1.396	1.520	2.312	0.414	1.870	2.691
2732	ENSG00000105255	FSD1	-1.2	4.945E-05	0.0005087	28.678	0.286	28.447	28.997	35.342	1.439	33.683	36.242
2735	ENSG00000150667	FSIP1	1.6	0.0466724	0.1204962	0.853	0.050	0.801	0.901	0.557	0.069	0.509	0.636

	A	B	C	D	E	F	G	H	I	J	K	L	M
2737	ENSG00000134363	FST	-1.1	0.0293235	0.0847051	17.495	0.303	17.167	17.764	20.109	1.514	18.437	21.387
2738	ENSG00000163430	FSTL1	1.1	4.485E-05	0.0004683	208.240	1.989	206.867	210.521	191.346	0.728	190.647	192.100
2739	ENSG00000070404	FSTL3	-1.2	0.1042402	0.2197319	4.169	0.480	3.851	4.721	5.028	0.270	4.742	5.278
2740	ENSG00000053108	FSTL4	1.2	0.0721924	0.1677414	2.508	0.305	2.171	2.764	2.166	0.278	1.845	2.330
2741	ENSG00000167996	FTH1	1.2	1.456E-09	6.842E-08	839.061	31.290	808.391	870.936	689.774	36.807	653.157	726.768
2742	ENSG00000223361	FTH1P10	1.2	0.0001665	0.0013754	143.199	9.649	134.717	153.697	120.973	8.587	112.445	129.618
2743	ENSG00000237264	FTH1P11	1.2	1.173E-05	0.0001527	224.359	10.195	214.576	234.922	188.249	3.667	185.449	192.399
2744	ENSG00000213362	FTH1P12	1.3	0.0948533	0.2057925	12.765	1.518	11.053	13.947	10.298	2.211	7.799	12.001
2746	ENSG00000227376	FTH1P16	1.2	0.0080971	0.0308716	77.467	9.040	68.473	86.552	66.752	3.272	63.490	70.034
2748	ENSG00000234975	FTH1P2	1.2	1.473E-05	0.0001836	330.126	4.991	324.480	333.949	277.921	8.821	269.181	286.822
2749	ENSG00000226564	FTH1P20	1.2	9.402E-05	0.0008596	185.386	7.995	178.270	194.038	155.445	8.975	146.324	164.268
2750	ENSG00000242960	FTH1P23	1.2	0.000408	0.0028337	85.223	4.757	81.183	90.466	70.383	3.710	67.682	74.614
2751	ENSG00000213453	FTH1P3	1.4	0.0713048	0.1660898	7.246	1.327	5.720	8.123	5.414	0.810	4.673	6.278
2752	ENSG00000230204	FTH1P5	1.2	0.0112308	0.039997	47.035	2.236	45.680	49.616	40.124	0.565	39.529	40.652
2753	ENSG00000232187	FTH1P7	1.2	1.391E-05	0.0001762	242.590	9.751	234.121	253.251	202.213	16.746	191.723	221.526
2754	ENSG00000219507	FTH1P8	1.1	0.0238459	0.072353	147.991	7.622	139.191	152.492	133.153	13.612	122.594	148.515
2757	ENSG00000087086	FTL	1.5	6.10E-17	1.81E-14	3957.900	150.614	3783.988	4045.679	2741.173	11.482	2731.680	2753.935
2758	ENSG00000232368	FTLP2	1.6	0.0003962	0.0027779	19.871	0.741	19.119	20.600	12.480	2.234	10.418	14.853
2759	ENSG00000226608	FTLP3	1.4	1.02E-11	8.641E-10	472.384	10.276	460.971	480.901	344.418	14.960	328.688	358.465
2760	ENSG00000140718	FTO	1.1	0.0013149	0.0072868	8.388	0.249	8.120	8.612	7.548	0.319	7.344	7.915
2761	ENSG00000108592	FTSJ3	-1.2	7.058E-06	9.897E-05	40.274	1.160	39.404	41.591	48.396	0.545	47.772	48.777
2762	ENSG00000230590	FTX	1.1	0.0255456	0.0761997	2.272	0.166	2.113	2.444	2.040	0.061	1.972	2.090
2763	ENSG00000162613	FUBP1	-1.2	3.109E-07	7.222E-06	180.998	2.955	177.872	183.747	218.576	7.561	213.297	227.238
2764	ENSG00000107164	FUBP3	-1.1	0.0305026	0.0873502	51.913	0.595	51.402	52.565	56.547	1.578	55.550	58.366
2766	ENSG00000179163	FUCA1	1.2	0.0035852	0.0162554	17.969	0.264	17.743	18.260	15.092	0.436	14.593	15.401
2767	ENSG00000001036	FUCA2	1.1	0.0035422	0.0161003	78.479	3.472	74.536	81.080	72.028	2.084	69.828	73.973
2769	ENSG00000069509	FUNDC1	-1.1	0.0220073	0.0678844	51.910	3.831	49.000	56.251	59.247	2.006	57.909	61.554
2772	ENSG00000140564	FURIN	1.2	0.0012256	0.0069118	33.679	1.714	31.946	35.373	29.720	2.267	27.526	32.054
2773	ENSG00000089280	FUS	-1.1	0.0016653	0.0088347	171.221	14.075	155.010	180.338	192.089	0.596	191.470	192.658
2774	ENSG00000174951	FUT1	1.3	7.533E-05	0.0007174	7.424	0.099	7.309	7.484	5.616	0.668	5.111	6.374
2775	ENSG00000176920	FUT2	-1.2	0.0847554	0.189537	2.352	0.120	2.229	2.468	2.908	0.215	2.732	3.147
2776	ENSG00000172461	FUT9	-1.1	0.0172479	0.0561421	6.136	0.105	6.070	6.257	7.013	0.648	6.396	7.688
2777	ENSG00000010361	FUZ	1.1	0.0896143	0.1975299	16.384	1.438	15.365	18.029	15.090	0.133	14.951	15.216
2778	ENSG00000114416	FXR1	-1.1	1.346E-06	2.442E-05	93.387	1.496	91.954	94.939	109.461	2.528	107.929	112.379
2779	ENSG00000221946	FXD7	-1.2	0.1150452	0.2356497	3.603	0.465	3.208	4.115	4.493	0.188	4.277	4.618
2780	ENSG00000163820	FYCO1	-1.1	0.0729003	0.1690844	8.999	0.456	8.521	9.430	10.037	0.420	9.644	10.479
2782	ENSG00000010810	FYN	1.1	0.0232513	0.0709324	25.412	0.648	24.959	26.154	23.867	1.843	22.249	25.873
2783	ENSG00000122068	FYTTD1	1.4	1.13E-08	4.154E-07	19.501	1.591	17.681	20.626	14.562	1.085	13.330	15.377
2784	ENSG00000180340	FZD2	-1.4	8.23E-05	0.0007703	14.709	2.112	12.312	16.295	20.610	3.317	18.569	24.437
2785	ENSG00000104290	FZD3	-1.1	0.0134347	0.0462395	16.668	0.726	15.831	17.124	18.765	1.560	17.043	20.082
2786	ENSG00000163251	FZD5	-1.2	5.867E-06	8.505E-05	22.709	0.856	21.988	23.654	27.732	1.007	27.041	28.888
2787	ENSG00000164930	FZD6	1.2	0.0031144	0.014533	18.290	0.465	17.776	18.681	16.001	0.276	15.724	16.275
2788	ENSG00000155760	FZD7	-1.1	0.0005646	0.0036943	149.515	8.524	139.763	155.550	170.521	11.008	162.692	183.107

	A	B	C	D	E	F	G	H	I	J	K	L	M
2791	ENSG00000105325	FZR1	-1.3	1.222E-05	0.0001582	12.182	1.307	10.965	13.563	16.047	1.401	15.096	17.656
2792	ENSG00000092140	G2E3	-1.3	3.614E-07	8.194E-06	38.823	1.778	37.250	40.751	49.830	2.289	47.639	52.205
2794	ENSG00000138757	G3BP2	1.1	0.0110005	0.0393594	224.408	7.198	216.853	231.184	214.151	4.168	210.032	218.366
2795	ENSG00000171298	GAA	-1.1	0.0230906	0.0705186	17.689	0.805	16.791	18.349	20.187	2.097	18.102	22.295
2796	ENSG00000160219	GAB3	2	0.0007343	0.0045443	0.852	0.095	0.763	0.952	0.442	0.132	0.353	0.593
2800	ENSG00000170296	GABARAP	1.1	0.0446392	0.11636	24.524	1.436	23.000	25.851	22.410	2.106	20.180	24.364
2802	ENSG00000139112	GABARAPL1	1.1	0.0002452	0.0018808	88.014	1.480	86.307	88.932	79.805	1.751	78.011	81.510
2803	ENSG00000104064	GABPB1	1.1	0.0271363	0.0798035	11.890	0.687	11.345	12.662	11.172	0.080	11.085	11.244
2804	ENSG00000244879	GABPB1-AS1	-1.4	7.79E-12	6.93E-10	17.338	0.404	16.877	17.627	24.749	1.231	23.848	26.152
2807	ENSG00000022355	GABRA1	1.5	0.0544297	0.1355574	0.477	0.053	0.426	0.532	0.323	0.048	0.269	0.361
2808	ENSG00000151834	GABRA2	1.5	0.0588051	0.1434131	0.244	0.006	0.237	0.248	0.170	0.040	0.130	0.210
2811	ENSG00000011677	GABRA3	-1.3	0.0121986	0.0428415	2.898	0.323	2.676	3.269	3.756	0.252	3.519	4.020
2813	ENSG00000113327	GABRG2	1.4	0.024037	0.0727259	0.287	0.028	0.258	0.314	0.211	0.031	0.175	0.232
2814	ENSG00000094755	GABRP	-1.4	6.161E-07	1.282E-05	8.401	1.191	7.480	9.745	12.338	0.534	11.796	12.864
2815	ENSG00000268089	GABRQ	-1.1	0.0121905	0.0428289	8.439	0.671	7.846	9.168	9.922	0.381	9.503	10.248
2817	ENSG00000116717	GADD45A	1.4	3.356E-05	0.0003659	31.991	3.622	28.875	35.966	23.357	3.893	19.666	27.425
2818	ENSG00000099860	GADD45B	1.5	7.028E-05	0.0006776	11.566	1.166	10.383	12.715	8.076	0.089	7.974	8.135
2819	ENSG00000130222	GADD45G	-2.6	7.80E-13	8.62E-11	7.808	1.062	6.594	8.565	20.830	2.204	19.284	23.354
2820	ENSG00000069482	GAL	1.2	6.406E-05	0.0006288	77.816	2.561	76.029	80.750	64.699	3.952	60.925	68.809
2821	ENSG00000128242	GAL3ST1	-1.2	0.0338457	0.09457	4.026	0.123	3.918	4.160	5.051	0.821	4.149	5.754
2822	ENSG00000197093	GAL3ST4	-1.2	0.0370472	0.1009473	6.105	0.577	5.476	6.611	7.509	0.293	7.178	7.735
2823	ENSG00000117308	GALE	1.8	1.46E-11	1.184E-09	14.717	1.093	13.483	15.561	8.150	0.961	7.216	9.135
2825	ENSG00000141012	GALNS	1.2	0.0738712	0.1705643	2.438	0.296	2.234	2.778	2.152	0.167	1.966	2.290
2828	ENSG00000141429	GALNT1	1.2	1.493E-05	0.0001857	70.196	3.799	66.267	73.851	61.499	2.170	58.993	62.774
2829	ENSG00000178234	GALNT11	1.4	2.72E-11	2.045E-09	23.493	0.311	23.223	23.833	17.021	0.968	16.328	18.127
2830	ENSG00000110328	GALNT18	-1.2	0.0843414	0.1889109	3.405	0.576	3.012	4.067	4.134	0.707	3.383	4.786
2832	ENSG00000143641	GALNT2	1.1	0.0049166	0.0208719	49.251	0.815	48.700	50.187	46.409	1.201	45.520	47.775
2834	ENSG00000109586	GALNT7	1.2	6.053E-08	1.753E-06	54.994	4.157	51.412	59.553	45.153	0.935	44.292	46.149
2835	ENSG00000166573	GALR1	3.1	1.06E-13	1.46E-11	2.482	0.285	2.155	2.683	0.826	0.147	0.679	0.972
2836	ENSG00000261609	GAN	-1.2	3.261E-05	0.0003574	5.338	0.255	5.089	5.599	6.714	0.523	6.139	7.160
2837	ENSG00000214013	GANC	-1.1	0.0795811	0.1805649	4.035	0.209	3.814	4.230	4.569	0.137	4.412	4.664
2838	ENSG00000111640	GAPDH	-1.1	2.997E-06	4.773E-05	2197.774	44.345	2161.089	2247.054	2559.604	135.382	2404.745	2655.534
2839	ENSG00000228232	GAPDHP1	-1.3	1.564E-06	2.754E-05	168.740	4.137	164.491	172.756	215.891	20.191	193.152	231.719
2840	ENSG00000216624	GAPDHP2	-1.4	0.1124707	0.2318999	0.751	0.099	0.653	0.851	1.109	0.278	0.895	1.423
2841	ENSG00000165219	GAPVD1	-1.2	0.0005864	0.0038117	11.414	0.978	10.609	12.502	13.454	0.212	13.212	13.608
2842	ENSG00000141441	GAREM1	1.2	0.0189784	0.0604826	3.929	0.682	3.141	4.331	3.352	0.134	3.265	3.506
2843	ENSG00000157833	GAREM2	-1.2	0.0111834	0.0398703	8.771	0.824	7.930	9.577	10.592	1.623	9.357	12.430
2844	ENSG00000106105	GARS	1.4	6.48E-16	1.52E-13	190.433	4.935	185.409	195.274	136.400	6.000	130.538	142.529
2845	ENSG00000180447	GAS1	-1.5	0.0010954	0.006334	3.389	0.448	2.874	3.689	5.098	0.325	4.724	5.313

	A	B	C	D	E	F	G	H	I	J	K	L	M
2846	ENSG00000234741	GAS5	-1.1	0.0005242	0.003478	179.752	4.616	176.630	185.054	202.875	3.376	199.046	205.426
2847	ENSG00000183087	GAS6	-1.2	0.0004217	0.0029147	16.983	0.383	16.546	17.257	20.817	1.312	19.652	22.239
2848	ENSG00000272695	GAS6-AS2	-1.7	0.004219	0.0185242	1.291	0.353	0.908	1.603	2.325	0.439	1.989	2.821
2849	ENSG0000007237	GAS7	1.2	0.0020222	0.0102461	8.511	0.047	8.464	8.557	7.494	0.381	7.058	7.758
2851	ENSG00000157259	GATAD1	-1.1	0.0011864	0.0067475	42.147	1.024	41.203	43.236	48.404	2.842	46.126	51.588
2852	ENSG00000143614	GATAD2B	-1.1	0.0763348	0.1747715	10.759	0.068	10.698	10.832	11.823	0.034	11.790	11.857
2853	ENSG00000059691	GATB	1.2	0.0009273	0.0054914	5.552	0.161	5.375	5.690	4.771	0.350	4.504	5.167
2854	ENSG00000257218	GATC	-1.1	0.0239884	0.0726308	20.062	0.812	19.457	20.985	22.626	1.229	21.247	23.606
2855	ENSG00000177225	GATD1	-1.1	0.1128335	0.2324425	25.582	1.101	24.869	26.850	27.720	1.402	26.472	29.236
2856	ENSG00000171766	GATM	1.7	8.265E-10	4.136E-08	17.716	2.330	15.489	20.137	10.929	0.343	10.593	11.278
2858	ENSG00000177628	GBA	1.4	3.138E-05	0.0003465	9.115	0.587	8.437	9.471	6.600	0.382	6.367	7.041
2859	ENSG00000070610	GBA2	-1.1	0.0354703	0.0978008	60.790	1.950	58.744	62.628	66.405	3.338	62.631	68.968
2861	ENSG00000160766	GBAP1	1.3	0.0155822	0.0520114	3.516	0.081	3.435	3.597	2.751	0.125	2.651	2.891
2862	ENSG00000114480	GBE1	-1.1	0.0806576	0.1824233	7.111	0.728	6.396	7.852	8.083	0.954	7.132	9.040
2863	ENSG00000107862	GBF1	-1.2	8.756E-07	1.71E-05	24.565	0.305	24.233	24.835	30.926	1.494	29.528	32.500
2864	ENSG00000148288	GBGT1	-1.2	0.098045	0.2102759	4.852	0.538	4.334	5.408	5.793	0.659	5.169	6.483
2865	ENSG00000179562	GCC1	1.1	0.0411145	0.1091803	13.037	0.528	12.428	13.352	12.089	0.457	11.635	12.549
2866	ENSG00000005436	GCCF2	1.1	0.01513	0.0507725	10.427	0.330	10.158	10.796	9.402	0.267	9.100	9.605
2867	ENSG00000131979	GCH1	1.3	0.0002424	0.0018629	14.375	0.836	13.668	15.297	11.474	0.805	10.578	12.137
2868	ENSG00000137880	GCHFR	1.1	0.037504	0.1018309	23.932	1.851	21.795	25.009	21.366	0.294	21.038	21.606
2869	ENSG00000001084	GCLC	1.1	0.0351717	0.0972914	21.849	0.636	21.232	22.502	20.747	0.735	19.910	21.289
2870	ENSG00000023909	GCLM	1.3	1.059E-05	0.0001398	13.332	1.689	11.737	15.101	10.298	0.666	9.713	11.023
2871	ENSG00000089154	GCN1	-1.1	0.0619987	0.1492647	76.302	1.499	74.664	77.604	82.227	5.520	77.168	88.114
2873	ENSG00000147174	GCNA	-1.4	0.0271379	0.0798035	1.214	0.232	1.061	1.481	1.718	0.115	1.587	1.797
2875	ENSG00000187210	GCNT1	-1.1	0.0752818	0.1729008	7.435	0.703	6.693	8.091	8.441	0.775	7.669	9.220
2876	ENSG00000176928	GCNT4	2.7	9.48E-19	4.86E-16	12.665	1.105	11.588	13.797	4.785	0.443	4.306	5.181
2877	ENSG00000140905	GCSH	1.1	0.0122503	0.0429498	24.684	1.242	23.865	26.113	22.331	1.635	20.991	24.153
2879	ENSG00000224837	GCSHP5	1.1	0.0321099	0.0910436	370.881	14.103	358.546	386.257	353.038	9.729	344.018	363.347
2880	ENSG00000119125	GDA	1.9	2.628E-08	8.599E-07	2.217	0.167	2.112	2.410	1.186	0.127	1.088	1.330
2881	ENSG00000104381	GDAP1	1.1	0.0060135	0.0244075	20.481	1.209	19.616	21.862	18.476	0.267	18.180	18.699
2882	ENSG00000124194	GDAP1L1	1.2	0.0193396	0.0613563	6.476	0.224	6.281	6.721	5.419	0.195	5.230	5.620
2883	ENSG00000196505	GDAP2	1.1	0.0535971	0.1339373	5.494	0.173	5.295	5.602	5.071	0.210	4.850	5.267
2884	ENSG00000006007	GDE1	1.1	0.0020485	0.0103393	59.126	1.081	57.975	60.120	54.781	0.889	53.762	55.402
2886	ENSG00000135414	GDF11	-1.3	2.4E-05	0.0002778	12.273	0.181	12.126	12.475	15.784	1.911	14.111	17.867
2889	ENSG00000130513	GDF15	1.6	0.0085069	0.0320154	76.437	7.458	67.889	81.621	48.207	16.832	31.774	65.411
2892	ENSG00000203879	GDI1	-1.1	0.0115463	0.0409313	35.382	1.984	33.147	36.934	39.653	1.438	38.039	40.796
2894	ENSG00000057608	GDI2	-1.1	0.0008691	0.0052141	312.276	4.615	309.477	317.603	347.785	3.935	343.257	350.376
2897	ENSG00000153982	GDPD1	-1.2	0.0580605	0.1421712	5.037	0.397	4.626	5.419	6.078	0.108	5.956	6.161
2898	ENSG00000158555	GDPD5	1.2	0.0082958	0.0314377	2.786	0.516	2.476	3.382	2.308	0.171	2.188	2.504
2899	ENSG00000142252	GEMIN7	-1.3	0.0003857	0.0027146	23.177	0.563	22.795	23.824	29.697	1.662	28.061	31.384
2900	ENSG00000145990	GFOD1	1.2	0.0177623	0.0574184	2.569	0.147	2.432	2.724	2.233	0.043	2.195	2.280
2903	ENSG00000131459	GFPT2	-1	0.0931963	0.2029915	95.134	3.016	92.414	98.378	102.043	3.507	99.450	106.033
2904	ENSG00000125447	GGA3	-1.2	1.56E-06	2.751E-05	22.880	0.163	22.762	23.066	28.460	0.540	27.879	28.948

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2905	ENSG0000006625	GGCT	1.2	0.0004891	0.0032934	89.361	1.766	88.337	91.401	78.688	4.721	75.604	84.123
2907	ENSG00000115486	GGCX	-1.2	0.0030292	0.0142078	8.160	0.672	7.385	8.585	9.794	1.120	8.501	10.446
2908	ENSG00000137563	GGH	1.1	0.0549069	0.1365448	31.665	2.006	29.690	33.700	29.649	0.782	28.881	30.445
2910	ENSG00000131067	GGT7	1.3	3.692E-07	8.347E-06	29.501	1.121	28.772	30.792	23.078	1.226	22.148	24.467
2913	ENSG00000146830	GIGYF1	-1.2	3.262E-08	1.026E-06	44.818	0.303	44.483	45.070	55.533	0.725	54.750	56.180
2915	ENSG00000204120	GIGYF2	-1.1	0.0006337	0.0040556	24.076	0.703	23.357	24.762	27.484	1.706	25.559	28.806
2917	ENSG00000145723	GIN1	-1.2	0.0421106	0.1112317	6.518	0.812	5.582	7.026	7.799	0.473	7.464	8.340
2919	ENSG00000131153	GIN52	1.1	0.0066776	0.026505	35.060	4.357	30.217	38.661	31.341	1.732	29.348	32.487
2920	ENSG00000181938	GIN53	1.4	7.114E-05	0.0006844	5.202	0.360	4.786	5.412	3.795	0.458	3.278	4.152
2921	ENSG00000147536	GIN54	-1.1	0.1179402	0.2399522	32.501	1.417	31.147	33.973	35.054	1.561	33.272	36.182
2923	ENSG00000137960	GIPC2	1.5	0.0140088	0.0477877	1.293	0.062	1.227	1.350	0.880	0.113	0.756	0.977
2925	ENSG00000179855	GIPC3	-1.7	0.0026383	0.0127271	0.752	0.189	0.579	0.954	1.344	0.368	1.116	1.768
2928	ENSG00000108262	GIT1	-1.1	0.0013211	0.0073163	24.706	1.355	23.690	26.244	29.024	1.741	27.202	30.669
2929	ENSG00000139436	GIT2	1.2	0.0051251	0.0215408	4.342	0.010	4.331	4.350	3.839	0.209	3.599	3.973
2930	ENSG00000152661	GJA1	-1.2	1.127E-06	2.106E-05	973.375	30.040	938.707	991.712	1162.842	6.349	1155.542	1167.073
2931	ENSG00000121743	GJA3	1.5	0.0023283	0.0114708	1.791	0.157	1.615	1.916	1.248	0.168	1.141	1.441
2934	ENSG00000187513	GJA4	1.6	0.0572659	0.1406556	1.524	0.137	1.377	1.649	0.990	0.096	0.904	1.093
2936	ENSG00000176402	GJC3	-1.6	0.0347543	0.0964396	1.948	0.559	1.324	2.403	3.207	1.144	1.944	4.175
2941	ENSG00000198814	GK	1.2	0.0540523	0.1348557	4.373	0.200	4.165	4.565	3.822	0.082	3.772	3.916
2943	ENSG00000229894	GK3P	1.5	0.0540421	0.1348502	1.780	0.143	1.666	1.940	1.205	0.393	0.900	1.649
2944	ENSG00000165113	GKAP1	-1.3	0.0008845	0.0052877	9.290	0.739	8.761	10.135	12.054	1.050	11.208	13.229
2945	ENSG00000170266	GLB1	1.2	3.741E-06	5.777E-05	47.550	0.641	46.976	48.242	40.712	1.718	39.274	42.615
2946	ENSG00000163521	GLB1L	1.2	0.1133972	0.2332184	3.431	0.305	3.117	3.725	2.979	0.183	2.823	3.180
2947	ENSG00000138604	GLCE	-1.1	0.05217	0.1312437	7.987	0.968	6.876	8.646	9.220	0.938	8.269	10.144
2948	ENSG00000186417	GLDN	1.4	0.0608357	0.1472192	0.691	0.097	0.599	0.792	0.519	0.083	0.444	0.609
2949	ENSG00000090863	GLG1	-1.1	0.0040513	0.0179372	55.462	1.113	54.335	56.560	60.922	0.857	59.969	61.630
2950	ENSG00000111087	GLI1	1.2	0.0014699	0.0079578	10.725	0.867	9.763	11.447	8.824	1.082	7.820	9.970
2951	ENSG00000074047	GLI2	-1.2	0.0007046	0.0043988	8.925	0.154	8.749	9.036	10.935	1.110	10.070	12.186
2956	ENSG00000106571	GLI3	-1.2	0.0026646	0.0128359	6.974	0.138	6.860	7.127	8.336	0.648	7.833	9.068
2957	ENSG00000250571	GLI4	-1.3	0.0064823	0.0258579	4.376	0.202	4.143	4.495	5.824	0.561	5.186	6.242
2962	ENSG00000139278	GLIPR1	3.9	1.445E-05	0.0001812	0.464	0.074	0.380	0.518	0.118	0.027	0.099	0.150
2963	ENSG00000173401	GLIPR1L1	2.1	0.0008974	0.0053425	2.353	0.480	1.830	2.774	1.110	0.214	0.965	1.356
2966	ENSG00000122694	GLIPR2	-1.3	0.000609	0.0039285	8.454	0.641	7.738	8.973	11.239	1.219	9.862	12.182
2968	ENSG00000126603	GLIS2	-1.2	0.0163381	0.0539737	8.409	0.590	7.863	9.034	10.112	0.910	9.373	11.129
2969	ENSG00000174842	GLMN	-1.1	0.0455998	0.1183958	30.487	1.574	29.387	32.290	34.113	0.877	33.408	35.096
2970	ENSG00000198715	GLMP	1.1	0.0049796	0.0210815	29.759	0.676	28.986	30.244	26.851	2.071	24.473	28.252
2976	ENSG00000023572	GLRX2	1.3	0.0400104	0.1070213	7.291	2.145	4.817	8.644	5.642	0.460	5.177	6.097
2977	ENSG00000108010	GLRX3	1.1	0.019174	0.0609682	59.221	2.179	57.477	61.664	55.694	2.604	54.113	58.699
2979	ENSG00000135423	GLS2	1.2	0.005039	0.0212743	22.655	1.205	21.299	23.603	20.138	1.402	18.526	21.077
2982	ENSG00000139433	GLTP	-1.1	0.105553	0.2216011	14.176	1.343	12.631	15.060	15.939	0.536	15.402	16.475
2985	ENSG00000148672	GLUD1	1.1	0.0054572	0.0225997	95.518	2.813	92.394	97.850	89.530	4.237	87.072	94.422
2987	ENSG00000250959	GLUD1P3	-1.5	0.0040614	0.0179755	5.737	1.070	4.783	6.894	8.925	2.241	6.345	10.390
2989	ENSG00000182890	GLUD2	1.1	0.0557056	0.1379226	30.267	3.491	26.285	32.801	28.019	0.815	27.447	28.953

	A	B	C	D	E	F	G	H	I	J	K	L	M
2991	ENSG00000135821	GLUL	-1.1	0.0005237	0.0034761	91.960	1.024	91.003	93.041	103.120	3.823	98.893	106.337
2996	ENSG00000166840	GLYATL1	1.2	0.0724833	0.1682779	4.102	0.257	3.862	4.372	3.641	0.185	3.511	3.852
2997	ENSG00000140632	GLYR1	1.1	3.009E-05	0.0003346	76.426	0.122	76.328	76.563	68.523	1.434	66.968	69.793
2998	ENSG00000196743	GM2A	1.1	0.0025157	0.0122441	42.117	1.461	40.743	43.652	38.649	0.903	37.607	39.180
3004	ENSG00000087338	GMCL1	-1.1	0.0699299	0.1637215	24.615	2.027	22.324	26.172	27.217	0.894	26.358	28.142
3005	ENSG00000250903	GMDS-AS1	1.3	0.0163424	0.0539737	0.757	0.020	0.735	0.773	0.575	0.120	0.494	0.712
3006	ENSG00000162419	GMEB1	-1.2	0.0012096	0.0068536	7.711	0.550	7.081	8.097	9.422	0.030	9.401	9.457
3008	ENSG00000197045	GMFB	1.1	0.0105318	0.0380202	61.699	2.481	59.534	64.407	57.214	2.646	54.733	59.999
3009	ENSG00000112312	GMNN	1.1	0.0002847	0.0021223	95.305	6.443	91.461	102.743	85.399	1.283	84.642	86.881
3015	ENSG00000137198	GMPR	2.2	0.0004095	0.0028433	1.835	0.444	1.335	2.183	0.856	0.180	0.696	1.051
3016	ENSG00000146535	GNA12	1.1	0.0025154	0.0122441	40.321	1.644	39.121	42.195	37.093	1.443	35.628	38.512
3019	ENSG00000156049	GNA14	1.7	3.254E-05	0.000357	7.998	2.143	6.735	10.472	4.910	0.798	3.995	5.460
3020	ENSG00000114353	GNAI2	-1.1	0.0012641	0.0070869	62.939	2.844	59.656	64.677	71.613	4.995	65.991	75.542
3021	ENSG00000065135	GNAI3	-1.1	0.032191	0.0911669	11.706	0.288	11.393	11.959	12.789	0.271	12.558	13.087
3023	ENSG00000141404	GNAL	-1.1	0.0441326	0.1154369	16.307	1.022	15.210	17.232	18.074	0.972	17.029	18.951
3024	ENSG00000156052	GNAQ	1.1	0.0007443	0.004588	64.835	2.619	62.053	67.252	59.601	1.431	58.123	60.979
3027	ENSG00000214077	GNAQP1	1.3	0.0028929	0.0136554	15.153	0.611	14.731	15.854	11.560	1.170	10.261	12.532
3028	ENSG00000235590	GNAS-AS1	-1.3	0.0178852	0.0577715	2.566	0.370	2.140	2.811	3.408	0.231	3.149	3.592
3030	ENSG00000128266	GNAZ	-1.2	0.0053942	0.0223884	8.665	0.721	8.225	9.497	10.663	0.658	9.909	11.119
3031	ENSG00000172354	GNB2	-1.1	0.0251752	0.0753473	62.945	2.039	60.670	64.611	69.952	3.619	66.914	73.957
3032	ENSG00000159921	GNE	1.1	0.1024732	0.2168308	10.942	0.417	10.473	11.268	10.280	0.438	9.812	10.680
3035	ENSG00000242616	GNG10	1.5	0.0058744	0.0240157	5.547	0.355	5.153	5.842	3.836	0.506	3.252	4.141
3036	ENSG00000172380	GNG12	1.2	0.0002215	0.0017333	44.298	2.396	42.008	46.788	38.826	3.477	34.880	41.439
3038	ENSG00000186469	GNG2	1.2	0.0152931	0.0512182	5.247	0.549	4.887	5.879	4.526	0.342	4.291	4.918
3039	ENSG00000174021	GNG5	1.1	0.0085112	0.0320175	207.448	3.268	203.873	210.281	194.815	5.573	189.662	200.730
3042	ENSG00000176533	GNG7	-1.2	0.0185682	0.0594403	8.272	0.829	7.316	8.787	9.918	1.391	9.038	11.522
3043	ENSG00000204590	GNL1	1.1	0.0863916	0.1922048	16.085	1.492	14.532	17.507	15.338	0.612	14.650	15.825
3047	ENSG00000163938	GNL3	-1.1	2.635E-05	0.0002993	159.198	10.105	148.693	168.848	185.880	2.446	184.233	188.691
3048	ENSG00000130119	GNL3L	-1.1	0.0260614	0.07737	15.774	1.252	14.437	16.918	18.409	0.362	17.995	18.666
3050	ENSG00000113552	GNPDA1	1.2	2.029E-09	9.226E-08	106.081	2.328	103.398	107.569	87.115	0.366	86.787	87.510
3057	ENSG00000100522	GNPNAT1	1.2	1.329E-05	0.0001698	79.021	1.055	78.113	80.178	68.786	4.000	66.164	73.390
3058	ENSG00000090581	GNPTG	1.2	0.0252144	0.0754115	9.148	0.063	9.106	9.220	8.104	0.774	7.486	8.973
3059	ENSG00000135677	GNS	1.3	1.712E-10	1.069E-08	37.602	0.615	37.128	38.297	28.873	0.250	28.721	29.162
3062	ENSG00000136935	GOLGA1	1.1	0.0161649	0.0535864	8.662	0.380	8.441	9.101	7.743	0.244	7.486	7.973
3063	ENSG00000167110	GOLGA2	-1.3	3.556E-10	1.985E-08	23.633	0.213	23.480	23.877	32.262	2.121	30.576	34.643
3064	ENSG00000255769	GOLGA2P10	-1.1	0.0050571	0.0213187	47.341	0.544	46.755	47.830	54.692	1.061	53.734	55.833
3065	ENSG00000090615	GOLGA3	-1.4	8.796E-10	4.375E-08	9.894	0.048	9.839	9.929	13.837	0.940	12.808	14.649
3070	ENSG00000066455	GOLGA5	-1.1	0.0069877	0.0274781	42.191	1.694	40.377	43.733	47.819	1.801	46.048	49.649
3071	ENSG00000159289	GOLGA6A	-1.3	0.0536691	0.1340776	1.892	0.502	1.458	2.442	2.492	0.391	2.107	2.889

	A	B	C	D	E	F	G	H	I	J	K	L	M
3072	ENSG00000278662	GOLGA6L10	-1.4	0.0014565	0.0078956	2.214	0.399	1.753	2.461	3.203	0.288	2.883	3.441
3073	ENSG00000197978	GOLGA6L9	-1.3	1.572E-05	0.0001935	7.362	0.366	6.952	7.653	9.805	0.380	9.495	10.228
3075	ENSG00000135052	GOLM1	1.2	2.713E-06	4.412E-05	107.539	3.760	103.243	110.234	94.066	3.438	90.152	96.599
3076	ENSG00000113384	GOLPH3	-1.1	0.0003261	0.0023619	85.428	1.568	83.774	86.893	98.818	6.298	92.511	105.106
3077	ENSG00000047932	GOPC	1.1	0.0146674	0.0495577	30.373	0.852	29.529	31.233	28.077	1.260	27.001	29.463
3082	ENSG00000114745	GORASP1	-1.1	0.0982966	0.2106551	14.663	0.575	14.326	15.327	16.085	0.579	15.446	16.575
3083	ENSG00000115806	GORASP2	-1.1	0.0003693	0.0026159	41.725	2.073	40.146	44.073	48.827	2.771	45.630	50.535
3084	ENSG00000108433	GOSR2	-1.2	0.0044529	0.0193305	4.904	0.402	4.667	5.368	5.801	0.258	5.643	6.099
3091	ENSG00000119927	GPAM	1.1	0.0795542	0.1805314	9.282	0.601	8.871	9.972	8.752	0.550	8.234	9.328
3093	ENSG00000204438	GPANK1	-1.1	0.0708685	0.1653239	14.159	1.096	12.964	15.117	16.040	0.161	15.935	16.225
3098	ENSG00000186281	GPAT2	-1.6	0.0185775	0.0594403	0.469	0.013	0.455	0.481	0.771	0.181	0.615	0.969
3102	ENSG00000138678	GPAT3	1.7	0.003505	0.0159527	1.424	0.244	1.150	1.618	0.855	0.234	0.676	1.120
3104	ENSG00000158669	GPAT4	-1.2	7.369E-05	0.0007053	25.463	0.707	24.788	26.198	30.124	1.845	28.149	31.805
3113	ENSG00000092978	GPATCH2	1.1	0.0479412	0.1229631	7.725	0.371	7.309	8.023	7.123	0.163	6.972	7.295
3115	ENSG00000089916	GPATCH2L	-1.1	0.0009742	0.0057387	12.691	0.213	12.481	12.908	14.488	0.736	13.674	15.109
3118	ENSG00000198746	GPATCH3	-1.2	0.0265574	0.0784569	9.296	0.454	8.772	9.562	11.159	0.442	10.679	11.551
3121	ENSG00000160818	GPATCH4	-1.1	0.008967	0.0333388	26.497	0.646	25.839	27.131	29.935	1.156	28.975	31.218
3125	ENSG00000186566	GPATCH8	1.1	0.0703574	0.1644593	30.375	1.731	28.394	31.600	29.219	1.243	28.152	30.584
3126	ENSG00000062194	GPBP1	-1.1	0.0161111	0.0534392	79.932	1.448	78.889	81.586	87.130	2.067	85.520	89.461
3131	ENSG00000159592	GPBP1L1	-1.1	5.067E-05	0.0005185	48.381	1.059	47.533	49.568	55.951	1.474	54.770	57.603
3132	ENSG00000063660	GPC1	1.3	1.093E-05	0.000144	20.163	0.396	19.804	20.587	16.181	1.949	14.610	18.362
3140	ENSG00000213420	GPC2	-1.5	3.35E-14	5.39E-12	31.152	1.417	29.602	32.381	48.952	1.629	47.223	50.458
3142	ENSG00000147257	GPC3	-1.2	8.762E-05	0.0008111	105.218	9.676	94.327	112.824	125.683	4.860	120.471	130.092
3147	ENSG00000183098	GPC6	-1.2	3.874E-05	0.0004141	11.673	0.952	10.576	12.281	14.585	0.309	14.310	14.919
3149	ENSG00000125772	GPCPD1	1.4	9.502E-07	1.829E-05	9.231	0.852	8.248	9.758	6.924	0.230	6.663	7.096
3152	ENSG00000115159	GPD2	1.3	9.51E-11	6.188E-09	30.136	1.761	28.371	31.892	22.859	0.482	22.383	23.348
3156	ENSG00000105220	GPI	-1.2	5.999E-07	1.254E-05	51.468	2.269	48.928	53.295	61.980	2.280	59.377	63.623
3157	ENSG00000142751	GPN2	-1.1	0.0862955	0.1920668	10.251	0.699	9.456	10.764	11.540	0.747	10.960	12.383
3162	ENSG00000148358	GPR107	1.1	0.0381228	0.1030314	35.549	0.306	35.203	35.783	34.244	0.363	33.838	34.535
3165	ENSG00000181619	GPR135	1.7	0.0057857	0.023722	0.972	0.170	0.778	1.098	0.592	0.232	0.377	0.838
3166	ENSG00000077585	GPR137B	1.1	0.1129775	0.2326259	17.172	0.696	16.369	17.615	15.833	0.698	15.037	16.344
3175	ENSG00000180998	GPR137C	1.2	0.0157694	0.052491	4.097	0.343	3.825	4.482	3.428	0.630	2.784	4.042
3177	ENSG00000101850	GPR143	1.9	4.63E-14	7.12E-12	39.025	1.862	37.416	41.065	21.557	0.692	21.115	22.355
3189	ENSG00000164849	GPR146	-1.4	0.0874537	0.1938792	0.672	0.180	0.467	0.802	0.993	0.059	0.940	1.056
3191	ENSG00000175697	GPR156	1.5	0.0035116	0.0159741	1.516	0.096	1.439	1.623	1.031	0.168	0.854	1.188
3197	ENSG00000151025	GPR158	1.5	0.0323279	0.0914624	0.524	0.027	0.501	0.555	0.366	0.073	0.281	0.410
3201	ENSG00000173890	GPR160	-1.2	0.0007651	0.0046904	15.339	0.790	14.718	16.228	18.473	0.423	18.010	18.839
3208	ENSG00000250510	GPR162	-1.6	8.006E-05	0.0007531	2.711	0.602	2.332	3.405	4.531	0.760	3.799	5.316
3210	ENSG00000184194	GPR173	-1.1	0.0386	0.1040552	10.909	1.102	9.676	11.799	12.552	1.119	11.408	13.644

	A	B	C	D	E	F	G	H	I	J	K	L	M
3212	ENSG00000166073	GPR176	1.3	9.11E-12	7.86E-10	189.194	12.662	175.045	199.459	146.036	4.038	141.892	149.960
3215	ENSG00000152749	GPR180	1.1	0.1163765	0.2376743	7.706	0.221	7.464	7.899	7.304	0.017	7.288	7.321
3219	ENSG00000204882	GPR20	1.8	0.0008624	0.0051833	3.652	0.713	3.021	4.425	2.077	0.474	1.538	2.423
3223	ENSG00000181773	GPR3	1.2	0.0296062	0.0853904	13.725	0.773	13.102	14.590	11.951	1.923	9.766	13.384
3228	ENSG00000102195	GPR50	1.5	0.0760865	0.1743464	2.176	0.727	1.514	2.953	1.510	0.834	0.941	2.468
3229	ENSG00000119737	GPR75	1.9	0.0052961	0.0220625	1.237	0.220	0.986	1.397	0.653	0.019	0.631	0.666
3230	ENSG00000155269	GPR78	-1.2	0.0583226	0.1425654	2.162	0.414	1.714	2.530	2.622	0.081	2.555	2.712
3231	ENSG00000164604	GPR85	2.5	0.0457585	0.1187166	0.093	0.012	0.080	0.101	0.036	0.013	0.021	0.045
3233	ENSG00000117262	GPR89A	1.1	0.0995736	0.2125837	11.159	0.513	10.652	11.677	10.477	0.692	9.911	11.249
3234	ENSG00000198932	GPRASP1	1.3	0.0206004	0.0645929	2.956	0.549	2.364	3.449	2.393	0.198	2.264	2.621
3237	ENSG00000013588	GPRCSA	-2.2	0.0001938	0.0015568	0.275	0.116	0.177	0.403	0.612	0.100	0.500	0.692
3238	ENSG00000167191	GPRCSB	1.1	0.0525979	0.1321237	67.312	1.430	65.684	68.363	64.978	2.426	62.304	67.039
3239	ENSG00000170412	GPRCS5C	1.1	0.0550908	0.1368812	6.853	0.124	6.718	6.961	6.339	0.100	6.227	6.421
3241	ENSG00000121957	GPSM2	-1.1	0.0151011	0.0506958	10.674	0.648	10.197	11.412	12.264	0.809	11.428	13.044
3245	ENSG00000166123	GPT2	1.5	2.65E-13	3.27E-11	34.360	0.324	34.022	34.669	23.505	2.180	22.119	26.017
3248	ENSG00000116157	GPX7	1.2	0.0064749	0.025846	15.069	1.488	13.367	16.123	12.380	1.111	11.152	13.317
3249	ENSG00000164294	GPX8	1.2	6.308E-07	1.306E-05	57.133	3.781	53.172	60.703	46.898	2.630	45.124	49.919
3250	ENSG00000089351	GRAMD1A	-1.3	2.367E-08	7.895E-07	34.931	0.808	34.362	35.855	46.314	3.600	42.510	49.668
3253	ENSG00000023171	GRAMD1B	-1.3	0.0001352	0.0011548	4.191	0.201	3.986	4.389	5.355	0.430	5.085	5.851
3254	ENSG00000155324	GRAMD3	-1.2	0.0058169	0.023827	9.219	0.369	8.886	9.616	11.163	0.363	10.744	11.399
3255	ENSG00000075240	GRAMD4	-1.2	0.0105264	0.0380088	13.706	0.285	13.489	14.029	16.136	2.108	13.702	17.385
3257	ENSG00000106070	GRB10	1.3	6.091E-08	1.761E-06	23.246	1.257	22.182	24.633	18.860	0.890	17.898	19.653
3258	ENSG00000115290	GRB14	1.2	0.0038436	0.0171794	11.651	0.151	11.488	11.786	9.772	0.107	9.660	9.873
3260	ENSG00000177885	GRB2	-1.1	0.0096649	0.0354351	67.283	1.542	65.505	68.250	74.430	1.459	72.827	75.679
3262	ENSG00000196208	GREB1	-1.2	0.0006625	0.0041949	7.210	0.292	6.872	7.382	8.695	0.888	8.031	9.705
3263	ENSG00000166923	GREM1	1.6	0.1233625	0.2479418	0.088	0.029	0.071	0.121	0.055	0.011	0.043	0.064
3264	ENSG00000083307	GRHL2	-1.1	0.025778	0.0767441	14.496	0.551	13.863	14.874	16.333	0.372	16.083	16.760
3267	ENSG00000155511	GRIA1	-1.9	0.0087169	0.0326387	0.155	0.001	0.155	0.156	0.305	0.056	0.240	0.346
3269	ENSG00000164418	GRIK2	-1.5	0.0015073	0.0081216	1.184	0.327	0.982	1.562	1.796	0.209	1.558	1.951
3270	ENSG00000163873	GRIK3	-1.5	0.0005287	0.0035054	0.991	0.151	0.818	1.095	1.489	0.189	1.353	1.705
3272	ENSG00000105737	GRIK5	-1.1	0.0161906	0.0536503	21.090	1.076	20.176	22.276	23.832	1.020	22.765	24.798
3273	ENSG00000176884	GRIN1	-1.4	0.0520204	0.1309417	0.602	0.142	0.439	0.703	0.835	0.162	0.739	1.023
3274	ENSG00000183454	GRIN2A	-1.8	5.584E-08	1.648E-06	0.807	0.114	0.726	0.937	1.449	0.058	1.386	1.499
3276	ENSG00000273079	GRIN2B	-1.6	2.569E-05	0.0002933	0.316	0.011	0.305	0.327	0.518	0.075	0.432	0.566
3277	ENSG00000105464	GRIN2D	-1.2	0.0035878	0.0162597	6.563	0.316	6.208	6.813	8.127	0.926	7.242	9.090
3278	ENSG00000178719	GRINA	1.2	0.000485	0.0032693	56.530	1.543	55.564	58.309	49.781	1.026	48.735	50.786
3279	ENSG00000155974	GRIP1	-1.1	0.0597175	0.1451453	6.843	0.309	6.657	7.199	7.787	0.358	7.402	8.111
3280	ENSG00000144596	GRIP2	-1.2	0.0094052	0.0346406	2.847	0.370	2.598	3.272	3.478	0.343	3.103	3.777
3281	ENSG00000173020	GRK2	-1.2	0.0005144	0.0034357	20.933	0.834	20.342	21.886	24.837	1.604	23.767	26.681
3282	ENSG00000100077	GRK3	1.1	0.0871424	0.1933918	23.536	0.908	22.585	24.393	22.620	1.545	21.601	24.397
3283	ENSG00000198055	GRK6	1.1	0.0372511	0.1012906	31.551	0.172	31.439	31.750	29.531	2.758	27.904	32.716

	A	B	C	D	E	F	G	H	I	J	K	L	M
3286	ENSG00000152822	GRM1	1.4	0.0397136	0.1063283	0.944	0.156	0.813	1.117	0.708	0.076	0.662	0.796
3287	ENSG00000164082	GRM2	-1.2	0.0945313	0.2053176	1.260	0.100	1.144	1.323	1.543	0.286	1.246	1.816
3289	ENSG00000198822	GRM3	-1.3	0.0257975	0.076775	1.777	0.167	1.584	1.882	2.376	0.532	1.993	2.984
3290	ENSG00000179603	GRM8	1.3	0.0259098	0.0770011	1.637	0.170	1.441	1.739	1.281	0.085	1.189	1.356
3292	ENSG00000030582	GRN	1.2	7.867E-07	1.561E-05	82.346	2.240	80.201	84.669	68.721	5.563	64.306	74.970
3293	ENSG00000164284	GRPEL2	1.1	0.0605927	0.1467569	28.264	0.837	27.297	28.759	26.372	0.794	25.532	27.111
3294	ENSG00000126010	GRPR	-2.4	6.21E-21	5.26E-18	37.643	3.859	35.296	42.097	92.848	3.166	89.915	96.204
3296	ENSG00000132463	GRSF1	1.1	0.0013587	0.0074753	56.342	0.691	55.805	57.122	52.523	0.947	51.449	53.238
3299	ENSG00000139835	GRTF1	-1.2	9.593E-06	0.000129	37.790	1.008	37.042	38.936	47.144	1.661	45.269	48.432
3302	ENSG00000105447	GRWD1	-1.1	0.0225047	0.0690909	18.205	0.378	17.934	18.637	20.472	1.202	19.618	21.846
3303	ENSG00000186088	GSAP	1.4	0.0109952	0.0393488	1.519	0.266	1.324	1.822	1.136	0.212	1.001	1.380
3304	ENSG00000073605	GSDMB	-1.2	0.0033715	0.0154742	10.496	1.049	9.326	11.354	12.632	0.809	11.835	13.453
3305	ENSG00000104518	GSDMD	-1.1	0.1023947	0.2166919	14.908	1.071	14.037	16.104	16.630	1.245	15.886	18.067
3308	ENSG00000131149	GSE1	-1.1	0.0028195	0.0134062	18.978	1.065	18.341	20.207	21.566	1.158	20.420	22.735
3309	ENSG00000177602	GSG2	-1.3	1.641E-05	0.0002004	16.418	0.501	15.846	16.779	21.634	1.425	19.988	22.479
3310	ENSG00000148180	GSN	-1.1	0.0964373	0.2078382	11.888	1.429	10.412	13.265	13.388	1.168	12.435	14.692
3311	ENSG00000104687	GSR	1.1	0.0145411	0.0492556	78.147	2.821	75.206	80.830	73.741	2.949	71.197	76.973
3312	ENSG00000100983	GSS	1.2	0.0004004	0.0028004	48.945	2.671	46.475	51.780	42.245	2.001	40.198	44.196
3314	ENSG00000170899	GSTA4	1.1	0.1062555	0.2227165	36.963	2.169	34.846	39.181	35.112	1.091	33.868	35.909
3315	ENSG00000138780	GSTCD	-1.1	0.0026352	0.0127158	15.544	0.615	14.958	16.183	18.106	0.835	17.146	18.664
3317	ENSG00000197448	GSTK1	1.1	0.0229294	0.0701655	15.193	0.239	14.921	15.365	13.745	0.515	13.354	14.328
3318	ENSG00000148834	GSTO1	1.2	1.499E-05	0.000186	80.577	2.664	77.532	82.476	67.382	3.670	63.162	69.829
3319	ENSG00000084207	GSTP1	1.1	0.0037463	0.0168334	727.035	8.105	717.869	733.256	690.834	15.032	674.519	704.122
3320	ENSG00000125651	GTF2F1	-1.1	0.0052172	0.0218033	43.528	0.125	43.402	43.653	49.218	0.212	49.044	49.455
3321	ENSG00000188342	GTF2F2	-1.1	0.0194169	0.0615438	47.356	3.213	45.294	51.058	52.669	1.081	51.955	53.912
3323	ENSG00000110768	GTF2H1	1.1	0.0596958	0.1451252	11.248	0.403	10.810	11.604	10.576	0.207	10.340	10.727
3324	ENSG00000183474	GTF2H2C	1.1	0.0856424	0.1909651	14.262	0.511	13.686	14.656	13.547	0.972	12.852	14.657
3327	ENSG00000111358	GTF2H3	1.1	0.0651633	0.1550733	30.795	1.472	29.725	32.474	29.317	0.814	28.689	30.236
3328	ENSG00000006704	GTF2IRD1	-1.2	6.59E-06	9.358E-05	15.448	0.389	15.019	15.779	19.581	0.435	19.207	20.058
3329	ENSG00000196275	GTF2IRD2	1.2	0.1137377	0.2335939	0.933	0.079	0.845	0.997	0.779	0.078	0.711	0.864
3330	ENSG00000174428	GTF2IRD2 B	1.3	0.0325521	0.0919581	1.753	0.009	1.747	1.763	1.401	0.184	1.285	1.613
3331	ENSG00000115207	GTF3C2	-1	0.0960321	0.2073259	48.139	0.270	47.948	48.448	51.623	0.718	51.119	52.445
3332	ENSG00000125484	GTF3C4	-1.1	0.0177519	0.057396	21.392	0.705	20.735	22.137	23.700	1.620	22.183	25.406
3333	ENSG00000148308	GTF3C5	-1.2	0.000516	0.0034442	43.968	1.542	42.555	45.613	51.734	3.428	49.620	55.689
3336	ENSG00000100226	GTPBP1	-1.1	0.0017178	0.0090509	50.645	3.517	46.611	53.073	57.200	1.674	56.140	59.130
3337	ENSG00000105793	GTPBP10	1.2	0.0071707	0.0280541	6.272	0.365	5.910	6.640	5.512	0.272	5.245	5.789
3338	ENSG00000172432	GTPBP2	-1.1	0.0928129	0.2025032	27.508	0.798	26.694	28.289	29.937	0.885	29.306	30.948
3340	ENSG00000130299	GTPBP3	-1.1	0.0826514	0.1861115	16.724	0.763	15.843	17.169	18.474	0.581	17.888	19.049
3341	ENSG00000107937	GTPBP4	-1.1	6.208E-05	0.0006119	50.235	1.237	49.035	51.506	57.976	0.676	57.252	58.589
3343	ENSG00000178605	GTPBP6	1.1	0.0508917	0.1287594	37.149	1.484	35.440	38.101	34.934	1.349	33.614	36.310
3344	ENSG00000075218	GTSE1	-1.2	0.0002378	0.0018357	32.133	1.392	31.153	33.726	38.294	2.012	36.722	40.561

	A	B	C	D	E	F	G	H	I	J	K	L	M
3345	ENSG00000048545	GUCA1A	-1.9	3.073E-07	7.149E-06	4.050	0.676	3.280	4.544	7.796	0.497	7.414	8.359
3348	ENSG00000112599	GUCA1B	-1.5	0.0408799	0.1086767	2.528	0.453	2.257	3.051	3.855	0.898	3.232	4.884
3350	ENSG00000061918	GUCY1B3	1.6	3.749E-05	0.0004024	5.292	1.135	4.004	6.149	3.420	0.525	2.836	3.854
3351	ENSG00000070019	GUCY2C	-1.4	0.0017638	0.0092248	1.849	0.186	1.641	1.998	2.739	0.272	2.434	2.957
3352	ENSG00000151806	GUF1	1.2	4.722E-05	0.0004884	51.887	0.917	51.011	52.840	45.733	2.222	43.366	47.773
3357	ENSG00000143774	GUK1	-1.1	0.0089043	0.0331714	18.548	0.746	17.697	19.092	21.338	0.357	21.002	21.714
3358	ENSG00000144366	GULP1	1.4	0.0018138	0.0094189	107.494	11.099	99.031	120.061	78.360	8.443	72.905	88.085
3359	ENSG00000183666	GUSBP1	1.6	0.0003209	0.0023297	2.109	0.279	1.836	2.393	1.353	0.301	1.007	1.538
3360	ENSG00000236296	GUSBP5	1.4	0.0434021	0.1138784	1.712	0.296	1.410	2.003	1.237	0.421	0.885	1.703
3361	ENSG00000232433	GXYLT1P3	1.5	0.0658782	0.1564226	2.087	0.258	1.835	2.352	1.406	0.308	1.064	1.661
3362	ENSG00000172986	GXYLT2	-1.8	6.605E-05	0.0006443	1.495	0.283	1.168	1.666	2.686	0.413	2.321	3.134
3365	ENSG00000056998	GYG2	1.1	0.0176294	0.0570747	82.725	0.905	81.982	83.733	78.388	2.940	75.681	81.516
3368	ENSG00000136732	GYPC	1.6	2.294E-10	1.361E-08	16.858	0.756	16.349	17.727	10.813	0.577	10.468	11.479
3372	ENSG00000104812	GYS1	1.1	0.0919307	0.2012979	29.662	1.057	28.878	30.863	28.443	0.433	27.944	28.694
3373	ENSG00000125812	GZF1	-1.1	0.0237101	0.0720065	9.271	0.566	8.618	9.601	10.753	0.772	10.049	11.578
3374	ENSG00000130600	H19	-1.9	0.0081776	0.0311362	0.602	0.187	0.396	0.758	1.145	0.093	1.063	1.246
3375	ENSG00000189060	H1F0	-1.2	9.683E-06	0.00013	200.828	11.936	187.201	209.431	239.006	7.099	231.748	245.935
3376	ENSG00000184897	H1FX	-1.3	0.016105	0.0534353	204.590	6.433	198.718	211.466	266.711	44.713	225.993	314.562
3378	ENSG00000113648	H2AFY	1.2	2.013E-05	0.0002385	18.528	1.026	17.349	19.220	16.331	0.519	15.731	16.642
3379	ENSG00000164032	H2AFZ	1	0.0694287	0.162796	516.851	10.881	504.291	523.392	505.445	14.381	495.262	521.896
3381	ENSG00000163041	H3F3A	-1.1	0.0296758	0.0855327	222.184	1.479	220.483	223.157	239.881	3.495	236.766	243.660
3382	ENSG00000235655	H3F3AP4	-1.1	0.0187254	0.0598342	1874.597	56.060	1812.377	1921.175	2037.551	55.593	1974.630	2080.023
3383	ENSG00000178458	H3F3AP6	-1.1	0.0091362	0.0338267	492.660	17.160	474.148	508.035	548.723	17.525	532.751	567.470
3384	ENSG00000130956	HABP4	1.3	3.798E-06	5.846E-05	16.081	0.351	15.725	16.428	12.499	0.574	11.870	12.995
3387	ENSG00000165996	HACD1	1.4	6.539E-05	0.000639	8.921	0.631	8.498	9.646	6.653	0.671	5.999	7.339
3389	ENSG00000206527	HACD2	1.1	0.0531362	0.1330667	25.018	0.318	24.711	25.346	23.718	1.327	22.463	25.107
3390	ENSG00000188921	HACD4	1.3	0.0352837	0.0974608	1.279	0.161	1.178	1.465	1.034	0.185	0.821	1.154
3391	ENSG00000131373	HACL1	-1.1	0.0536561	0.134065	33.679	0.379	33.260	33.997	37.185	1.697	35.273	38.512
3392	ENSG00000138796	HADH	1.2	9.694E-05	0.0008805	17.860	1.056	16.871	18.971	15.546	0.912	14.803	16.564
3393	ENSG00000084754	HADHA	1.2	9.591E-07	1.841E-05	172.638	1.723	171.426	174.611	151.871	4.157	147.531	155.817
3394	ENSG00000173805	HAP1	-1.2	0.0362623	0.0994654	2.072	0.241	1.898	2.346	2.619	0.062	2.548	2.664
3397	ENSG00000145681	HAPLN1	-2.4	0.0006834	0.0042936	0.199	0.087	0.106	0.278	0.490	0.115	0.357	0.562
3398	ENSG00000140511	HAPLN3	-1.3	1.966E-08	6.637E-07	32.050	2.409	30.124	34.752	43.425	2.119	41.438	45.656
3399	ENSG00000112855	HARS2	-1.2	0.0012919	0.0071993	24.935	1.327	23.409	25.820	29.467	0.555	29.088	30.105
3400	ENSG00000128708	HAT1	1.1	0.0417399	0.1104423	35.550	0.193	35.326	35.662	33.988	1.032	33.278	35.172
3402	ENSG00000249115	HAUS5	1.3	1.761E-05	0.0002132	11.763	0.373	11.346	12.066	9.393	0.218	9.150	9.569
3403	ENSG00000147874	HAUS6	-1.1	0.0167968	0.0551298	42.233	1.236	41.485	43.659	46.601	1.791	44.836	48.416
3404	ENSG00000227344	HAUS6P1	-1.1	0.107573	0.2248965	24.607	1.232	23.337	25.797	27.601	0.510	27.235	28.184
3405	ENSG00000143575	HAX1	1.2	7.879E-06	0.0001089	69.095	3.334	67.142	72.944	57.666	3.878	53.280	60.642
3406	ENSG00000105856	HBP1	-1.1	0.0792416	0.1801363	24.564	0.550	23.951	25.014	26.765	0.564	26.356	27.409
3408	ENSG00000112339	HBS1L	-1.1	0.0001161	0.0010206	24.577	0.445	24.189	25.062	28.551	0.543	27.956	29.020
3410	ENSG00000004961	HCCS	1.1	0.0904423	0.1990177	28.732	1.506	27.372	30.351	26.877	2.362	24.372	29.065
3411	ENSG00000172534	HCFC1	-1.1	0.0008906	0.0053096	50.122	1.434	48.472	51.063	57.755	4.680	52.985	62.341

	A	B	C	D	E	F	G	H	I	J	K	L	M
3413	ENSG00000228223	HCG11	-1.1	0.0989997	0.2118666	18.558	0.265	18.349	18.857	20.688	0.861	19.698	21.253
3414	ENSG00000231074	HCG18	1.1	0.0994933	0.2125196	8.713	0.079	8.624	8.779	8.361	0.375	8.082	8.787
3415	ENSG00000101336	HCK	-1.4	0.0440866	0.1153345	0.895	0.198	0.717	1.108	1.323	0.023	1.306	1.349
3416	ENSG00000164588	HCN1	-1.2	0.0106087	0.0382325	1.376	0.141	1.239	1.520	1.746	0.170	1.553	1.872
3417	ENSG00000099822	HCN2	-1.3	0.0454904	0.1181841	2.175	0.501	1.719	2.710	2.886	0.323	2.681	3.258
3421	ENSG00000143630	HCN3	1.3	0.0122834	0.043021	3.439	0.250	3.153	3.615	2.735	0.300	2.391	2.939
3423	ENSG00000100429	HDAC10	-1.4	0.1059659	0.2222195	0.628	0.105	0.542	0.746	0.867	0.181	0.742	1.074
3424	ENSG00000196591	HDAC2	-1	0.0554372	0.1374667	86.245	0.857	85.284	86.929	92.228	1.855	90.090	93.408
3425	ENSG00000068024	HDAC4	-1.1	0.0046686	0.0200663	4.573	0.225	4.354	4.803	5.372	0.287	5.156	5.698
3426	ENSG00000108840	HDAC5	-1.2	8.405E-05	0.0007832	23.760	1.539	22.211	25.289	28.354	1.298	27.541	29.851
3427	ENSG00000094631	HDAC6	-1.1	0.0088215	0.0329354	7.873	0.430	7.473	8.328	9.071	0.490	8.607	9.583
3428	ENSG00000061273	HDAC7	-1.1	0.0123409	0.0431422	22.340	0.161	22.159	22.465	24.987	1.178	23.937	26.261
3430	ENSG00000048052	HDAC9	-1.3	8.899E-06	0.0001207	2.691	0.199	2.501	2.897	3.650	0.155	3.544	3.828
3431	ENSG00000143321	HDGF	-1.1	7.194E-05	0.0006909	215.708	7.820	206.998	222.125	246.647	6.426	239.390	251.617
3433	ENSG00000069998	HDHD5	-1.1	0.0646032	0.1541093	25.681	1.378	24.199	26.924	28.234	2.364	26.372	30.893
3435	ENSG00000115677	HDLBP	1.1	0.0053582	0.0222716	88.635	0.753	88.057	89.486	84.333	3.157	80.772	86.788
3436	ENSG00000165259	HDX	1.2	0.0107996	0.0387881	3.326	0.275	3.161	3.644	2.758	0.184	2.586	2.953
3437	ENSG00000068097	HEATR6	1.1	0.0184557	0.0591962	19.296	0.772	18.683	20.163	17.808	0.853	16.945	18.650
3438	ENSG00000013583	HEBP1	-1.2	8.846E-05	0.0008171	16.439	0.671	15.710	17.029	20.610	0.438	20.218	21.083
3439	ENSG00000112406	HECA	-1.2	0.0006145	0.0039586	12.590	0.331	12.211	12.821	15.275	1.253	14.375	16.707
3440	ENSG00000092148	HECTD1	1.1	0.0001119	0.0009877	52.969	1.918	50.852	54.592	48.512	0.301	48.214	48.815
3441	ENSG00000165338	HECTD2	1.2	0.0212577	0.0661633	5.160	0.339	4.771	5.394	4.573	0.452	4.205	5.078
3444	ENSG00000002746	HECW1	1.3	0.0311422	0.0888619	0.986	0.144	0.899	1.152	0.802	0.044	0.753	0.840
3445	ENSG00000138411	HECW2	1.2	0.0592026	0.1441539	1.377	0.025	1.349	1.397	1.186	0.176	1.039	1.380
3446	ENSG00000173706	HEG1	1.6	8.241E-10	4.136E-08	6.123	0.378	5.749	6.505	3.805	0.489	3.346	4.319
3449	ENSG00000281344	HELLPAR	-1.3	0.0349953	0.0969528	0.058	0.011	0.046	0.068	0.074	0.006	0.068	0.080
3452	ENSG00000119969	HELLS	-1.1	0.0023725	0.011658	31.422	1.122	30.155	32.291	35.522	2.118	33.147	37.216
3454	ENSG00000163312	HELQ	-1.2	0.0551075	0.1368951	5.332	0.815	4.496	6.124	6.398	0.442	5.897	6.734
3455	ENSG00000130589	HELZ2	-1.1	0.02219	0.0682859	6.964	0.212	6.820	7.207	7.994	0.705	7.504	8.801
3457	ENSG00000114735	HEMK1	-1.1	0.0644896	0.1538815	2.127	0.052	2.069	2.166	2.442	0.106	2.320	2.512
3458	ENSG00000162639	HENMT1	1.2	0.0496916	0.126402	7.284	0.462	6.755	7.607	6.295	0.471	5.847	6.786
3459	ENSG00000089472	HEPH	-1.1	0.0177945	0.0575117	31.143	2.128	28.686	32.423	34.578	1.574	33.176	36.280
3460	ENSG00000276550	HERC2P2	-1.2	1.982E-05	0.0002361	12.093	0.733	11.652	12.940	15.346	0.619	14.684	15.910
3461	ENSG00000180229	HERC2P3	-1.2	0.0002547	0.001939	10.538	0.759	9.787	11.305	12.892	0.272	12.595	13.128
3462	ENSG00000206149	HERC2P9	-1.1	0.0017048	0.0089935	11.770	0.339	11.507	12.153	13.822	0.168	13.717	14.015
3463	ENSG00000148634	HERC4	-1.1	0.0418537	0.1106394	14.920	0.360	14.694	15.336	16.442	1.425	15.505	18.082
3464	ENSG00000138646	HERC5	1.3	1.212E-06	2.225E-05	30.347	1.941	28.197	31.970	24.552	1.247	23.461	25.912
3465	ENSG00000138642	HERC6	1.2	0.0053905	0.0223839	4.936	0.342	4.588	5.272	4.096	0.241	3.915	4.370
3466	ENSG00000051108	HERPUD1	1.5	5.129E-08	1.525E-06	7.624	0.456	7.275	8.139	5.042	0.353	4.694	5.400
3467	ENSG00000122557	HERPUD2	1.1	0.0067684	0.0267588	23.881	0.532	23.334	24.396	21.388	1.765	19.377	22.673
3468	ENSG00000114315	HES1	1.2	0.0015429	0.00829	19.846	1.306	18.424	20.993	16.617	1.283	15.321	17.887
3469	ENSG00000069812	HES2	-2	0.0006642	0.0041994	0.502	0.253	0.331	0.792	1.045	0.197	0.833	1.222
3470	ENSG00000188290	HES4	1.5	0.0257552	0.0767034	6.230	0.961	5.547	7.329	4.388	1.953	2.223	6.015

	A	B	C	D	E	F	G	H	I	J	K	L	M
3472	ENSG00000163666	HESX1	-1.2	0.0950831	0.2059927	5.773	1.224	4.536	6.984	7.275	1.037	6.266	8.337
3474	ENSG00000213614	HEXA	1.3	3.734E-06	5.773E-05	8.909	0.784	8.388	9.811	7.154	0.120	7.027	7.266
3475	ENSG00000049860	HEXB	1.2	1.5E-06	2.668E-05	56.674	3.967	54.190	61.249	47.245	3.573	44.074	51.117
3476	ENSG00000186834	HEXIM1	1.2	0.0007432	0.0045861	40.758	2.515	38.921	43.624	35.455	0.904	34.684	36.450
3478	ENSG00000135547	HEY2	-1.3	0.0114973	0.0407747	5.244	0.627	4.689	5.925	6.711	0.608	6.089	7.304
3479	ENSG00000168509	HFE2	1.6	0.0344078	0.0957137	1.490	0.473	1.099	2.016	0.973	0.268	0.706	1.242
3480	ENSG00000162669	HFM1	1.7	2.105E-06	3.546E-05	3.245	0.116	3.145	3.372	1.895	0.475	1.423	2.372
3481	ENSG00000235173	HGH1	-1.2	0.0015597	0.0083532	16.667	0.851	16.013	17.629	20.541	1.551	18.919	22.009
3482	ENSG00000185359	HGS	-1.1	0.0010481	0.0061019	15.498	0.244	15.324	15.777	18.028	0.946	17.429	19.119
3483	ENSG00000165102	HGSNAT	1.5	1.114E-05	0.000146	3.727	0.586	3.205	4.361	2.569	0.343	2.291	2.952
3484	ENSG00000106049	HIBADH	1.2	2.272E-05	0.0002656	88.958	3.116	85.803	92.033	77.115	2.191	75.218	79.512
3485	ENSG00000198130	HIBCH	1.2	0.0007899	0.0048193	17.505	0.766	16.625	18.024	15.535	0.779	15.033	16.432
3486	ENSG00000100644	HIF1A	1.1	0.0820783	0.1851662	154.363	2.880	151.877	157.519	149.275	11.302	137.933	160.537
3488	ENSG00000124440	HIF3A	-1.1	0.0250582	0.0750901	7.696	0.388	7.404	8.136	8.821	0.812	7.955	9.566
3489	ENSG00000181061	HIGD1A	1.1	0.0051567	0.0216279	87.111	0.693	86.574	87.894	78.070	4.780	74.838	83.560
3491	ENSG00000258016	HIGD1AP1	1.2	0.0370349	0.1009299	92.990	4.936	89.028	98.519	80.797	6.944	72.797	85.264
3493	ENSG00000135245	HILPDA	-1.1	0.1221852	0.2462779	19.183	1.833	17.700	21.232	21.370	0.599	21.007	22.062
3495	ENSG00000172273	HINFP	-1.1	0.0300055	0.0863065	5.517	0.353	5.122	5.801	6.315	0.454	6.016	6.837
3496	ENSG00000127946	HIP1	-1.1	0.0288085	0.0836748	56.600	2.500	53.926	58.878	61.630	2.389	58.997	63.657
3497	ENSG00000130787	HIP1R	1.2	0.0017861	0.0093006	6.825	0.488	6.372	7.342	5.780	0.390	5.368	6.144
3498	ENSG00000163349	HIPK1	-1.1	0.0025207	0.0122649	33.161	0.490	32.655	33.634	37.125	1.247	35.695	37.987
3499	ENSG00000064393	HIPK2	1.2	4.014E-05	0.0004276	13.569	1.225	12.596	14.945	11.581	0.275	11.414	11.898
3500	ENSG00000100084	HIRA	1.1	0.0164675	0.0543125	11.834	0.462	11.332	12.244	10.658	0.378	10.223	10.908
3501	ENSG00000149929	HIRIP3	-1.2	0.0036093	0.016343	14.068	0.506	13.484	14.364	16.702	1.063	15.538	17.620
3502	ENSG00000187837	HIST1H1C	-1.7	0.0007167	0.0044498	8.235	2.498	5.523	10.443	13.987	1.142	12.821	15.104
3503	ENSG00000180573	HIST1H2AC	-1.5	1.27E-05	0.0001636	9.619	0.405	9.200	10.009	14.334	0.522	13.780	14.815
3504	ENSG00000273802	HIST1H2B G	-1.7	0.0731429	0.1694611	0.836	0.292	0.583	1.155	1.431	0.713	0.607	1.849
3505	ENSG00000275713	HIST1H2BH	-1.3	0.0007089	0.0044139	7.332	0.750	6.726	8.171	10.101	0.399	9.803	10.554
3506	ENSG00000124635	HIST1H2BJ	1.6	0.0957609	0.2070047	1.974	0.444	1.711	2.487	1.281	0.215	1.054	1.482
3507	ENSG00000197238	HIST1H4J	-1.5	0.0021077	0.0105684	17.254	1.086	16.031	18.106	26.251	3.817	21.923	29.141
3508	ENSG00000273542	HIST1H4K	-1.4	0.003858	0.0172301	20.837	0.717	20.112	21.545	30.515	5.191	24.605	34.338
3509	ENSG00000203812	HIST2H2AA 3	-1.7	0.0845791	0.1892678	1.543	0.056	1.479	1.582	2.658	0.469	2.231	3.160

	A	B	C	D	E	F	G	H	I	J	K	L	M
3510	ENSG00000272196	HIST2H2AA 4	-1.7	0.0845791	0.1892678	1.502	0.055	1.440	1.540	2.581	0.443	2.219	3.076
3511	ENSG00000181218	HIST3H2A	-1.3	0.0328888	0.0927187	6.785	0.301	6.492	7.094	9.085	0.453	8.563	9.370
3514	ENSG00000197837	HIST4H4	-1.7	0.0567035	0.1395643	0.440	0.065	0.401	0.516	0.787	0.218	0.546	0.971
3517	ENSG00000095951	HIVEP1	1.1	0.0284083	0.082754	6.871	0.439	6.514	7.361	6.235	0.055	6.171	6.268
3519	ENSG00000010818	HIVEP2	-1.1	0.0081381	0.031014	4.631	0.064	4.561	4.686	5.425	0.111	5.336	5.549
3520	ENSG00000127124	HIVEP3	2	0.005717	0.0234917	0.219	0.072	0.168	0.301	0.109	0.039	0.077	0.153
3521	ENSG00000123485	HJURP	-1.3	1.146E-06	2.131E-05	64.536	2.323	62.019	66.597	82.976	6.956	75.110	88.313
3522	ENSG00000156515	HK1	-1.1	3.018E-05	0.0003353	126.768	5.978	121.126	133.033	146.370	4.111	142.795	150.862
3523	ENSG00000159399	HK2	-1.3	5.809E-10	3.004E-08	35.748	1.093	34.535	36.656	46.612	0.346	46.290	46.978
3526	ENSG00000181666	HKR1	1.1	0.0048836	0.0207786	16.256	0.739	15.430	16.854	14.733	0.894	13.809	15.595
3528	ENSG00000234745	HLA-B	1.3	2.749E-08	8.924E-07	45.445	0.507	44.868	45.817	34.966	1.303	33.637	36.242
3529	ENSG00000204525	HLA-C	1.3	1.031E-08	3.85E-07	145.710	2.334	143.376	148.044	118.829	5.252	115.341	124.868
3530	ENSG00000204252	HLA-DOA	-1.2	0.0006229	0.0039994	31.447	1.120	30.491	32.679	37.125	2.940	33.798	39.373
3531	ENSG00000224557	HLA-DPB2	-1.1	0.0174454	0.0566609	38.879	3.831	36.496	43.299	44.933	1.708	43.694	46.881
3533	ENSG00000179344	HLA-DQB1	1.3	0.0059171	0.0241273	6.791	0.467	6.302	7.231	5.534	0.628	4.814	5.964
3534	ENSG00000204592	HLA-E	-1.3	2.322E-08	7.776E-07	40.202	2.383	37.546	42.154	54.460	3.615	50.643	57.830
3535	ENSG00000214922	HLA-F-AS1	1.4	0.0047345	0.0202874	2.895	0.127	2.756	3.005	2.181	0.205	1.957	2.358
3536	ENSG00000206341	HLA-H	1.1	0.0888544	0.1961617	24.535	1.264	23.391	25.892	22.099	2.016	19.824	23.663
3537	ENSG00000159267	HLCS	1.4	4.553E-07	9.982E-06	8.956	1.062	7.991	10.094	6.526	0.437	6.225	7.028
3538	ENSG00000147421	HMBOX1	-1.1	0.1090948	0.2271476	6.682	0.579	6.311	7.349	7.554	0.844	6.743	8.427
3540	ENSG00000183624	HMCES	1.2	6.095E-05	0.0006032	56.794	1.950	54.591	58.299	49.068	2.463	46.234	50.691
3541	ENSG00000143341	HMCN1	1.1	0.0081822	0.0311469	8.764	0.098	8.653	8.837	8.122	0.440	7.724	8.595
3544	ENSG00000148357	HMCN2	-1.5	1.065E-08	3.956E-07	2.423	0.265	2.117	2.583	3.787	0.328	3.409	4.002
3545	ENSG00000064961	HMG20B	-1.2	5.077E-05	0.0005189	42.554	2.067	40.181	43.958	51.197	2.728	48.518	53.971
3546	ENSG00000149948	HMG2A	1.2	1.709E-06	2.961E-05	51.585	0.904	51.018	52.628	45.342	0.604	44.671	45.845
3547	ENSG00000029993	HMG2B3	-1.1	0.0087204	0.0326445	220.181	1.984	218.480	222.361	240.620	8.112	231.610	247.343
3549	ENSG00000117305	HMGCL	1.1	0.0079717	0.0305102	13.999	0.468	13.674	14.535	12.448	1.393	11.238	13.971
3550	ENSG00000113161	HMGCR	1.9	3.41E-24	7.22E-21	215.474	5.376	211.810	221.645	116.746	4.886	111.146	120.137
3551	ENSG00000112972	HMGCS1	2.3	1.05E-28	5.94E-25	438.410	15.474	423.152	454.091	190.797	6.225	186.550	197.944
3552	ENSG00000253954	HMGN1P3 8	1.1	0.1176008	0.2394345	303.958	21.336	282.276	324.930	288.484	2.400	285.718	290.019
3553	ENSG00000198830	HMGN2	1.1	0.0174475	0.0566609	215.927	13.854	199.961	224.769	204.712	9.013	195.610	213.633
3555	ENSG00000230330	HMGN2P3	1.1	0.0891275	0.1966619	283.838	39.913	239.433	316.727	263.741	4.759	259.090	268.600
3556	ENSG00000234664	HMGN2P5	1.1	0.009953	0.0363182	496.768	37.535	454.497	526.196	455.159	21.773	431.442	474.244
3558	ENSG00000118418	HMGN3	1.1	0.110194	0.2287323	354.863	18.039	334.163	367.219	343.675	15.121	326.525	355.091

	A	B	C	D	E	F	G	H	I	J	K	L	M
3559	ENSG00000270362	HMG3-AS1	1.2	0.1218106	0.2456693	2.396	0.139	2.307	2.556	1.984	0.210	1.752	2.161
3563	ENSG00000100281	HMGXB4	-1.1	0.0243285	0.073437	27.154	0.246	26.985	27.435	29.983	0.445	29.477	30.315
3566	ENSG00000072571	HMMR	-1.1	0.005702	0.0234413	89.591	10.253	81.798	101.206	104.624	2.358	102.637	107.230
3567	ENSG00000100292	HMOX1	1.8	1.96E-12	2.037E-10	24.697	0.165	24.556	24.879	14.266	0.746	13.819	15.127
3571	ENSG00000103415	HMOX2	1.2	0.001154	0.0065984	16.231	0.604	15.712	16.894	14.023	0.179	13.854	14.212
3572	ENSG00000221887	HMSD	1.9	4.713E-05	0.0004881	3.364	0.812	2.882	4.301	1.813	0.433	1.486	2.303
3576	ENSG00000164749	HNF4G	1.6	0.0033266	0.0153021	1.387	0.172	1.199	1.536	0.910	0.185	0.711	1.076
3579	ENSG00000150540	HNMT	1.3	0.0444027	0.1159033	1.517	0.334	1.180	1.848	1.167	0.246	0.912	1.404
3581	ENSG00000135486	HNRNPA1	-1.1	0.0035049	0.0159527	475.733	3.510	471.682	477.897	524.517	4.759	520.096	529.554
3582	ENSG00000236565	HNRNPA3P5	1.1	0.1048737	0.2206679	216.811	2.653	213.789	218.759	208.864	9.010	202.770	219.213
3583	ENSG00000197451	HNRNPAB	1	0.1096309	0.2278711	504.353	7.478	498.449	512.762	496.175	13.336	485.238	511.032
3584	ENSG00000138668	HNRNPD	1.1	0.0070043	0.0275221	222.077	12.830	208.714	234.298	210.085	10.687	200.511	221.615
3586	ENSG00000152795	HNRNPDL	1.1	5.922E-06	8.56E-05	295.020	2.977	292.134	298.080	262.855	9.710	254.977	273.703
3590	ENSG00000169045	HNRNPH1	-1.1	0.0005622	0.0036811	180.196	2.610	177.244	182.196	202.118	2.937	199.537	205.313
3591	ENSG00000126945	HNRNPH2	1.1	0.0587298	0.1432501	140.469	3.261	136.787	142.996	135.496	2.449	133.041	137.939
3593	ENSG00000165119	HNRNPK	-1.2	2.931E-09	1.267E-07	457.119	14.840	447.179	474.177	559.030	12.518	550.143	573.346
3595	ENSG00000250859	HNRNPKP1	-1.2	0.0150501	0.0505745	9.875	0.864	9.035	10.760	12.544	1.015	11.416	13.382
3598	ENSG00000227347	HNRNPKP2	-1.3	0.0001022	0.0009198	24.629	0.777	23.902	25.447	32.672	2.386	31.111	35.418
3601	ENSG00000243547	HNRNPKP4	-1.2	2.224E-05	0.0002603	75.723	4.275	72.484	80.569	93.819	1.721	91.899	95.223
3602	ENSG00000104824	HNRNPL	-1.1	0.0007528	0.0046325	115.171	4.454	110.970	119.840	129.286	2.588	127.534	132.259
3603	ENSG00000143889	HNRNPLL	1.2	1.043E-05	0.0001378	32.408	0.847	31.794	33.374	27.894	1.353	26.403	29.046
3605	ENSG00000099783	HNRNPM	1.1	9.15E-05	0.0008418	154.341	4.460	149.250	157.560	139.036	10.201	127.499	146.862
3606	ENSG00000125944	HNRNPR	1.1	0.0062642	0.0251955	107.032	1.453	105.729	108.598	101.763	3.422	98.344	105.189
3607	ENSG00000105323	HNRNPUL1	-1.1	0.0125086	0.0436112	121.724	1.290	120.461	123.038	133.060	5.097	128.551	138.591
3608	ENSG00000152413	HOMER1	1.1	0.0008903	0.0053094	32.431	1.483	30.769	33.622	29.377	1.026	28.743	30.561
3609	ENSG00000103942	HOMER2	1.2	0.000476	0.0032136	4.069	0.106	3.994	4.190	3.423	0.117	3.296	3.525
3611	ENSG00000051128	HOMER3	1.1	0.0673038	0.1591503	20.846	1.171	19.766	22.091	19.211	1.850	17.916	21.330
3612	ENSG00000134709	HOOK1	1.1	0.0049393	0.0209529	46.090	1.521	45.172	47.846	42.506	0.409	42.143	42.950
3613	ENSG00000095066	HOOK2	1.2	0.0001258	0.0010915	19.956	0.787	19.343	20.844	17.222	0.559	16.678	17.795
3614	ENSG00000168172	HOOK3	1.1	0.0066334	0.0263791	9.514	0.385	9.134	9.904	8.674	0.546	8.092	9.175
3615	ENSG00000127483	HP1BP3	-1.1	0.0004459	0.003042	62.641	0.735	62.060	63.467	71.747	4.421	68.364	76.750
3616	ENSG00000121905	HPCA	-1.7	0.0073256	0.028502	1.191	0.398	0.742	1.497	2.074	0.330	1.760	2.418

	A	B	C	D	E	F	G	H	I	J	K	L	M
3617	ENSG00000116983	HPCAL4	1.2	0.0919068	0.2012979	2.280	0.420	1.994	2.762	1.899	0.273	1.614	2.160
3618	ENSG00000164120	HPGD	2	0.0042734	0.0187148	0.670	0.043	0.620	0.695	0.347	0.082	0.253	0.396
3620	ENSG00000107521	HPS1	1.2	0.0009403	0.0055587	17.311	0.816	16.391	17.948	15.053	0.800	14.198	15.784
3621	ENSG00000100099	HPS4	-1.1	0.0198918	0.0627317	20.744	1.553	19.034	22.067	23.196	1.457	21.947	24.796
3622	ENSG00000110756	HPS5	1.1	0.0095665	0.0351507	13.279	0.863	12.287	13.849	11.977	0.814	11.226	12.841
3623	ENSG00000127252	HRASLS	1.3	0.1160338	0.2371003	4.394	0.542	3.791	4.843	3.486	1.303	2.258	4.854
3624	ENSG00000168004	HRASLS5	1.5	5.974E-08	1.733E-06	12.962	0.607	12.515	13.653	8.618	0.577	8.069	9.219
3625	ENSG00000130528	HRC	-1.4	2.285E-06	3.796E-05	10.834	0.906	9.953	11.763	15.817	0.412	15.352	16.137
3626	ENSG00000113749	HRH2	1.1	0.0851422	0.190031	5.852	0.421	5.408	6.244	5.360	0.024	5.333	5.378
3627	ENSG00000135116	HRK	2.6	1.37E-11	1.115E-09	3.112	0.100	3.000	3.191	1.229	0.180	1.110	1.437
3628	ENSG00000122254	HS3ST2	1.9	0.0049691	0.021042	1.345	0.408	1.077	1.815	0.737	0.225	0.480	0.897
3629	ENSG00000125430	HS3ST3B1	-1.3	0.0016801	0.0088939	3.137	0.133	2.984	3.232	4.269	0.321	3.906	4.517
3632	ENSG00000249853	HS3ST5	-1.6	0.0002872	0.0021358	1.491	0.336	1.234	1.871	2.505	0.255	2.237	2.744
3633	ENSG00000136720	HS6ST1	-1.2	1.498E-05	0.000186	37.852	0.809	37.022	38.637	45.556	2.506	43.111	48.120
3637	ENSG00000171004	HS6ST2	-1.2	0.0002777	0.0020804	13.812	1.131	12.515	14.595	17.213	1.019	16.040	17.883
3639	ENSG00000185352	HS6ST3	-1.6	0.0026344	0.0127158	0.741	0.231	0.511	0.973	1.175	0.215	1.035	1.423
3641	ENSG00000167733	HSD11B1L	-1.2	0.0449115	0.1169676	5.330	0.528	4.732	5.730	6.476	0.736	5.971	7.321
3642	ENSG00000149084	HSD17B12	1.4	4.78E-14	7.28E-12	62.357	0.271	62.061	62.593	45.398	1.402	44.198	46.938
3644	ENSG00000087076	HSD17B14	1.6	2.41E-08	7.976E-07	42.049	0.475	41.520	42.442	27.711	1.055	26.494	28.369
3645	ENSG00000132196	HSD17B7	1.3	1.648E-07	4.218E-06	19.928	0.768	19.183	20.717	15.326	0.861	14.385	16.073
3646	ENSG00000099251	HSD17B7P 2	1.6	0.0075888	0.0293503	3.403	0.322	3.067	3.709	2.217	0.327	1.856	2.493
3648	ENSG00000099377	HSD3B7	1.3	0.0432787	0.1135897	4.847	0.458	4.359	5.267	3.898	0.228	3.636	4.046
3649	ENSG00000185122	HSF1	-1.3	1.014E-06	1.925E-05	18.227	0.531	17.722	18.781	23.608	1.391	22.421	25.138
3650	ENSG00000025156	HSF2	-1.2	0.0001541	0.0012861	25.484	1.697	23.539	26.666	32.178	2.918	30.099	35.514
3654	ENSG00000080824	HSP90AA1	-1.2	7.957E-10	4.029E-08	1159.523	4.706	1155.179	1164.522	1411.077	27.853	1379.397	1431.720
3655	ENSG00000224411	HSP90AA2 P	-1.2	3.022E-05	0.0003355	124.504	2.395	121.805	126.377	149.297	9.531	141.395	159.882
3657	ENSG00000096384	HSP90AB1	-1.1	0.0003984	0.0027892	3115.278	61.426	3052.435	3175.182	3451.039	20.787	3437.497	3474.973
3659	ENSG00000166598	HSP90B1	1.1	0.000242	0.0018606	762.454	15.480	746.770	777.721	711.892	12.053	698.032	719.924
3660	ENSG00000155304	HSPA13	1.1	0.0055342	0.0228681	41.612	1.547	40.461	43.371	38.056	3.217	35.807	41.742
3663	ENSG00000187522	HSPA14	1.3	1.826E-07	4.637E-06	28.263	1.715	26.519	29.948	21.959	1.187	21.021	23.293
3664	ENSG00000204389	HSPA1A	1.3	9.311E-07	1.8E-05	56.981	2.696	54.146	59.512	45.759	2.981	42.981	48.909
3665	ENSG00000204388	HSPA1B	1.2	2.979E-05	0.0003319	60.816	3.113	57.419	63.533	50.787	2.965	47.504	53.269
3666	ENSG00000126803	HSPA2	-1.2	0.0001246	0.001082	26.568	2.385	23.871	28.394	32.086	1.249	30.679	33.065
3667	ENSG00000170606	HSPA4	-1	0.0472146	0.1215763	351.959	1.382	350.384	352.966	376.620	10.186	364.937	383.637
3668	ENSG00000044574	HSPA5	1.4	9.75E-14	1.37E-11	401.426	24.336	375.506	423.786	294.527	9.682	284.742	304.102

	A	B	C	D	E	F	G	H	I	J	K	L	M
3669	ENSG00000109971	HSPA8	-1.1	3.21E-05	0.0003532	835.745	28.166	804.547	859.302	953.303	18.489	931.955	964.025
3670	ENSG00000234176	HSPA8P1	-1.2	0.0771377	0.1763014	6.429	1.310	5.188	7.799	7.968	0.541	7.343	8.305
3673	ENSG00000229091	HSPA8P8	-1.2	0.0923336	0.2018924	5.714	0.779	4.897	6.449	6.879	0.746	6.058	7.516
3674	ENSG00000113013	HSPA9	1.1	0.0103078	0.0373914	333.554	10.259	322.007	341.619	320.122	5.352	314.276	324.781
3675	ENSG00000226666	HSPA9P1	1.2	0.0117833	0.0416231	13.016	0.941	12.226	14.056	11.019	0.374	10.754	11.447
3677	ENSG00000106211	HSPB1	-1.2	0.000195	0.0015633	92.747	1.148	91.501	93.761	112.933	7.843	106.954	121.814
3678	ENSG00000081870	HSPB11	1.1	0.0180851	0.0583284	23.789	1.174	22.448	24.631	21.653	1.677	19.912	23.259
3679	ENSG00000236060	HSPB1P1	-1.3	0.0475087	0.1220776	20.709	2.797	17.879	23.471	28.539	6.967	21.487	35.418
3680	ENSG00000152137	HSPB8	-1.2	0.0239952	0.0726353	12.514	2.357	10.435	15.074	15.083	1.002	13.955	15.872
3682	ENSG00000144381	HSPD1	-1.1	0.0105692	0.0381227	744.557	23.436	725.044	770.552	808.880	2.929	806.536	812.163
3683	ENSG00000213430	HSPD1P1	-1.1	0.1084726	0.226217	172.859	3.420	170.044	176.665	185.603	1.964	183.545	187.457
3684	ENSG00000142798	HSPG2	1.1	0.0453698	0.1179251	35.840	1.228	34.423	36.592	33.620	3.686	30.954	37.826
3686	ENSG00000109854	HTATIP2	1.2	0.0007607	0.0046684	40.773	1.687	39.470	42.679	35.723	1.808	34.036	37.632
3687	ENSG00000178394	HTR1A	1.7	0.0146942	0.0496252	1.818	0.240	1.556	2.029	1.100	0.399	0.642	1.376
3691	ENSG00000179546	HTR1D	-2.3	2.793E-09	1.214E-07	2.613	0.326	2.239	2.838	6.182	0.768	5.298	6.683
3692	ENSG00000147246	HTR2C	-1.3	0.0006667	0.0042123	4.190	0.495	3.846	4.757	5.707	0.541	5.196	6.273
3693	ENSG00000148680	HTR7	1.5	4.032E-06	6.155E-05	55.436	4.656	52.556	60.807	38.074	5.702	31.571	42.215
3694	ENSG00000183935	HTR7P1	1.3	0.0479445	0.1229631	2.131	0.441	1.655	2.527	1.706	0.188	1.489	1.816
3696	ENSG00000197386	HTT	-1.1	0.01093	0.0391734	22.921	0.858	22.316	23.903	25.294	1.266	24.501	26.754
3699	ENSG00000086758	HUWE1	-1.1	0.000137	0.0011659	86.996	2.198	84.467	88.440	98.717	4.402	95.437	103.720
3700	ENSG00000122986	HVCN1	1.2	0.0347965	0.0965105	6.628	0.331	6.245	6.827	5.758	0.195	5.611	5.979
3702	ENSG00000068001	HYAL2	-1.1	0.0928691	0.2025032	19.490	0.691	18.711	20.029	21.617	0.671	20.856	22.126
3703	ENSG00000178922	HYI	-1.2	0.0426509	0.1122556	10.096	1.749	8.304	11.799	12.095	0.110	11.999	12.215
3705	ENSG00000242028	HYPK	-1.5	0.0006341	0.0040556	1.598	0.115	1.468	1.686	2.406	0.176	2.245	2.593
3706	ENSG00000134330	IAH1	1.3	4.156E-05	0.0004401	7.806	0.228	7.672	8.070	5.987	0.772	5.169	6.703
3710	ENSG00000196305	IARS	1.2	4.934E-08	1.477E-06	169.328	3.429	165.653	172.443	147.222	4.545	144.496	152.468
3711	ENSG00000003147	ICA1	1.1	0.0329355	0.0927777	19.987	1.512	18.577	21.584	18.505	1.424	16.956	19.756
3712	ENSG00000163596	ICA1L	2	3.899E-10	2.141E-08	2.427	0.082	2.354	2.516	1.236	0.075	1.150	1.284
3713	ENSG00000105376	ICAM5	-1.2	0.0908512	0.1998004	2.909	0.470	2.457	3.395	3.562	0.218	3.380	3.804
3715	ENSG00000164151	ICE1	-1.3	2.239E-09	1.01E-07	40.811	1.999	39.143	43.028	52.823	2.699	49.965	55.329
3716	ENSG00000128915	ICE2	-1.1	0.0167895	0.0551166	21.475	0.434	20.975	21.760	23.612	1.260	22.456	24.955
3718	ENSG00000116237	ICMT	1.1	0.0095827	0.0352023	89.930	2.635	87.024	92.165	85.243	2.020	83.274	87.309
3719	ENSG00000160223	ICOSLG	1.2	0.1017849	0.2159147	1.955	0.138	1.803	2.072	1.713	0.115	1.612	1.838
3720	ENSG00000117318	ID3	1.2	1.997E-05	0.0002376	141.044	5.948	135.388	147.246	122.689	7.210	117.387	130.898
3721	ENSG00000172201	ID4	1.8	1.40E-12	1.506E-10	45.810	3.767	43.084	50.108	26.478	3.163	22.854	28.688
3722	ENSG00000138413	IDH1	1.4	2.84E-16	7.26E-14	272.936	3.300	269.174	275.337	202.111	1.171	201.094	203.392
3723	ENSG00000166411	IDH3A	1.2	0.000548	0.0036019	13.359	1.014	12.212	14.133	11.528	0.193	11.400	11.750
3724	ENSG00000067829	IDH3G	-1.1	0.0604665	0.1465252	22.211	2.586	19.249	24.017	25.137	0.624	24.637	25.836
3725	ENSG00000067064	IDI1	1.7	5.91E-20	3.70E-17	96.135	1.631	94.273	97.312	57.380	0.678	56.815	58.132
3726	ENSG00000131203	IDO1	-1.3	4.346E-07	9.584E-06	40.306	3.920	36.221	44.036	54.907	3.138	51.557	57.778
3728	ENSG00000010404	IDS	1.1	0.0016605	0.008812	17.284	0.529	16.684	17.685	15.419	1.140	14.106	16.158
3729	ENSG00000160888	IER2	1.1	0.0174696	0.0566998	115.222	2.072	112.903	116.888	107.581	11.784	96.481	119.947
3730	ENSG00000137331	IER3	1.7	3.652E-10	2.025E-08	44.477	5.323	38.565	48.888	27.258	3.424	23.478	30.153

	A	B	C	D	E	F	G	H	I	J	K	L	M
3731	ENSG00000162783	IER5	-1.1	0.0917216	0.2010222	17.905	1.100	17.040	19.143	20.030	2.204	17.503	21.548
3732	ENSG00000188483	IER5L	1.7	0.0014884	0.0080362	2.257	0.541	1.759	2.832	1.348	0.196	1.170	1.558
3733	ENSG00000169991	IFFO2	1.2	0.0246773	0.0741987	6.981	0.509	6.669	7.568	6.192	0.587	5.529	6.647
3734	ENSG00000163565	IFI16	-2.2	6.808E-06	9.605E-05	0.663	0.185	0.474	0.844	1.529	0.188	1.329	1.702
3737	ENSG00000068079	IFI35	1.4	0.0109389	0.0391969	4.205	0.360	3.819	4.531	3.023	0.437	2.519	3.299
3738	ENSG00000152778	IFIT5	1.3	0.003149	0.014664	4.833	0.563	4.339	5.446	3.683	0.464	3.367	4.216
3741	ENSG00000185201	IFITM2	-1.1	0.0001287	0.001111	158.823	5.476	152.508	162.268	184.066	2.488	181.509	186.480
3742	ENSG00000142089	IFITM3	1.1	0.0459555	0.119045	189.816	10.835	179.494	201.100	181.032	1.488	179.676	182.623
3745	ENSG00000006652	IFRD1	1.8	2.01E-17	7.24E-15	25.025	1.740	23.417	26.871	13.966	0.608	13.326	14.537
3747	ENSG00000138002	IFT172	1.2	0.0054361	0.0225344	4.995	0.091	4.938	5.100	4.301	0.319	3.947	4.566
3748	ENSG00000100360	IFT27	-1.1	0.0061764	0.0249251	10.911	0.279	10.699	11.227	12.727	0.927	11.867	13.709
3750	ENSG00000101052	IFT52	1.1	0.0750536	0.1725406	41.942	2.985	38.683	44.543	39.555	1.932	37.684	41.544
3751	ENSG00000114446	IFT57	1.2	0.0001373	0.0011683	24.578	1.017	23.420	25.326	21.010	0.408	20.695	21.471
3753	ENSG00000096872	IFT74	1.2	0.0030502	0.0142942	24.640	0.253	24.401	24.905	21.650	0.645	20.909	22.085
3756	ENSG00000032742	IFT88	1.2	0.097907	0.2100598	3.200	0.063	3.143	3.267	2.828	0.118	2.713	2.949
3758	ENSG00000174498	IGDCC3	1.1	0.0028006	0.0133463	45.932	1.954	43.960	47.868	41.735	0.835	40.850	42.508
3759	ENSG00000140443	IGF1R	-1.1	0.0489403	0.1250391	29.719	1.217	28.329	30.589	32.129	0.770	31.442	32.961
3761	ENSG00000073792	IGF2BP2	1	0.1160859	0.2371781	101.365	2.458	99.790	104.198	99.369	1.130	98.480	100.641
3762	ENSG00000136231	IGF2BP3	1.1	0.0003191	0.0023205	163.599	10.082	152.065	170.738	148.455	7.504	142.908	156.993
3763	ENSG00000197081	IGF2R	1.3	9.84E-11	6.35E-09	43.583	3.639	40.656	47.657	33.126	0.483	32.569	33.443
3764	ENSG00000115457	IGFBP2	-1.3	6.729E-05	0.0006545	79.486	2.843	76.210	81.302	103.873	10.034	92.528	111.582
3765	ENSG00000146674	IGFBP3	1.3	0.0039625	0.0176409	5.564	0.369	5.168	5.899	4.507	0.294	4.243	4.824
3766	ENSG00000141753	IGFBP4	-1.2	0.0001952	0.0015633	80.680	1.631	79.175	82.413	95.660	8.770	90.347	105.783
3768	ENSG00000115461	IGFBP5	-1.6	1.955E-05	0.0002331	1.856	0.354	1.490	2.197	2.982	0.312	2.719	3.327
3769	ENSG00000163453	IGFBP7	2.4	0.0016539	0.00878	1.229	0.432	0.765	1.621	0.525	0.070	0.483	0.605
3771	ENSG00000137142	IGFBPL1	-1.2	0.0007991	0.0048616	55.501	3.380	51.601	57.590	68.829	3.628	64.649	71.152
3772	ENSG00000132740	IGHMBP2	-1.1	0.03942	0.1057768	5.445	0.033	5.416	5.481	6.332	0.411	5.860	6.606
3773	ENSG00000147255	IGSF1	-1.2	9.453E-07	1.823E-05	22.959	1.188	21.613	23.860	28.911	1.368	27.361	29.950
3774	ENSG00000117154	IGSF21	-1.2	0.0216736	0.067149	8.035	0.572	7.375	8.375	9.849	0.799	9.112	10.697
3776	ENSG00000162729	IGSF8	-1.2	8.118E-05	0.0007611	51.769	4.291	48.133	56.502	62.610	2.711	59.814	65.227
3777	ENSG00000085552	IGSF9	-1.1	0.0230311	0.0704283	6.257	0.392	5.859	6.642	7.348	0.079	7.277	7.433
3778	ENSG00000113141	IK	-1.1	0.0013981	0.0076477	42.093	0.506	41.778	42.676	48.450	0.704	47.671	49.039
3780	ENSG00000166130	IKBIP	1.2	0.0045638	0.0197107	14.834	1.234	13.743	16.172	12.893	1.354	11.490	14.191
3781	ENSG00000104365	IKBKB	-1.1	0.0143044	0.0486585	9.530	0.492	9.235	10.098	10.795	0.485	10.448	11.349
3783	ENSG00000185811	IKZF1	1.3	0.0985232	0.2110339	0.631	0.135	0.533	0.785	0.508	0.107	0.444	0.631
3784	ENSG00000030419	IKZF2	-1.1	0.0682634	0.1607321	2.703	0.292	2.378	2.943	3.159	0.321	2.791	3.386
3786	ENSG00000123411	IKZF4	-1.2	0.00066	0.0041836	7.802	0.532	7.287	8.349	9.626	0.419	9.168	9.991
3790	ENSG00000095752	IL11	-1.2	0.0848919	0.1897246	3.786	1.184	2.677	5.033	4.740	0.287	4.509	5.061
3791	ENSG00000081985	IL12RB2	1.4	0.013605	0.0466643	1.621	0.100	1.513	1.710	1.165	0.093	1.064	1.247
3792	ENSG00000131724	IL13RA1	1.4	7.006E-07	1.424E-05	14.001	0.793	13.086	14.463	10.428	0.877	9.543	11.296
3793	ENSG00000124391	IL17C	-3.2	0.0564466	0.1391867	0.143	0.247	0.000	0.428	0.498	0.164	0.363	0.680
3795	ENSG00000177663	IL17RA	1.3	0.0001843	0.0014955	3.650	0.167	3.546	3.842	2.827	0.329	2.567	3.197
3796	ENSG00000144730	IL17RD	1.1	0.017088	0.0557935	25.450	2.483	23.611	28.275	23.531	1.754	22.468	25.555

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3797	ENSG00000137496	IL18BP	-1.2	0.0306852	0.087799	4.271	0.297	4.098	4.614	5.217	0.272	4.993	5.520
3798	ENSG00000016402	IL20RA	1.6	0.0006196	0.0039847	2.338	0.126	2.216	2.468	1.510	0.371	1.270	1.937
3801	ENSG00000174564	IL20RB	1.6	0.0001995	0.0015942	5.243	0.842	4.301	5.924	3.370	0.572	2.972	4.026
3803	ENSG00000103522	IL21R	4.6	1.622E-06	2.834E-05	0.542	0.153	0.378	0.681	0.117	0.028	0.086	0.142
3804	ENSG00000110944	IL23A	1.4	0.090198	0.1985836	3.077	0.371	2.761	3.485	2.235	0.232	2.093	2.503
3806	ENSG00000104998	IL27RA	1.4	1.079E-07	2.91E-06	22.434	0.924	21.427	23.243	16.102	1.061	15.100	17.213
3807	ENSG00000008517	IL32	1.4	0.063851	0.1527674	1.816	0.058	1.749	1.857	1.342	0.272	1.065	1.608
3810	ENSG00000077238	IL4R	1.2	0.000194	0.0015576	10.647	0.517	10.120	11.154	8.788	0.897	7.956	9.738
3812	ENSG00000160712	IL6R	2.2	7.73E-08	2.164E-06	2.816	0.557	2.196	3.274	1.299	0.242	1.155	1.578
3813	ENSG00000134352	IL6ST	1.2	0.0012642	0.0070869	5.724	0.433	5.299	6.165	4.789	0.291	4.500	5.081
3814	ENSG00000143195	ILD2R	1.3	0.0006769	0.0042642	2.714	0.095	2.607	2.790	2.162	0.153	2.013	2.320
3815	ENSG00000143621	ILF2	-1.1	0.0064315	0.0257212	443.721	5.718	438.856	450.020	485.475	10.576	473.379	492.979
3816	ENSG00000267100	ILF3-AS1	-1.1	0.0825823	0.1860054	30.343	2.453	27.573	32.239	34.224	1.598	33.049	36.044
3819	ENSG00000166333	ILK	1.1	0.0050481	0.0212914	66.837	2.329	64.160	68.400	61.982	1.790	60.164	63.742
3821	ENSG00000177971	IMP3	-1.1	0.0206362	0.0646556	39.299	2.900	36.941	42.538	44.293	1.361	42.745	45.304
3822	ENSG00000141401	IMPA2	-1.1	0.0444221	0.1159033	26.382	0.730	25.551	26.921	29.216	0.737	28.491	29.964
3823	ENSG00000154059	IMPACT	1.1	0.0016007	0.008532	43.852	0.511	43.321	44.340	39.748	3.323	35.936	42.030
3824	ENSG00000106348	IMPDH1	1.1	0.0084294	0.0317916	22.544	0.843	21.953	23.508	20.302	1.245	19.300	21.696
3826	ENSG00000178035	IMPDH2	-1.1	3.594E-05	0.0003882	381.129	8.735	373.027	390.383	434.972	4.439	429.944	438.346
3828	ENSG00000148798	INA	1.2	0.0006324	0.0040527	16.565	0.795	15.684	17.228	14.036	0.489	13.603	14.566
3829	ENSG00000257704	INAFM1	1.3	0.0373894	0.1015687	6.257	0.737	5.412	6.767	4.719	0.947	3.723	5.608
3830	ENSG00000149503	INCENP	-1.4	9.75E-11	6.321E-09	47.328	2.763	45.151	50.436	67.428	6.293	60.203	71.713
3831	ENSG00000203485	INF2	-1.1	0.0046188	0.0198824	10.669	0.462	10.333	11.196	12.442	0.783	11.670	13.237
3833	ENSG00000153487	ING1	1.1	0.1132901	0.2330425	10.957	0.924	10.122	11.949	10.311	0.450	9.797	10.633
3834	ENSG00000111653	ING4	-1.1	0.0953091	0.2063193	21.341	3.162	19.007	24.940	24.048	1.775	22.020	25.316
3836	ENSG00000139269	INHBE	3.1	2.14E-18	9.77E-16	14.299	1.221	12.928	15.269	4.687	0.147	4.533	4.824
3837	ENSG00000241644	INMT	-1.4	0.0079546	0.0304657	2.150	0.236	1.881	2.319	3.075	0.366	2.719	3.450
3838	ENSG00000128908	INO80	1.1	0.0593095	0.1443934	14.872	0.731	14.125	15.587	14.002	0.460	13.657	14.525
3842	ENSG00000153391	INO80C	-1.1	0.0235697	0.071671	8.641	0.398	8.350	9.094	10.089	0.667	9.529	10.826
3844	ENSG00000114933	INO80D	1.1	0.1104149	0.2290912	10.958	0.697	10.252	11.646	10.467	0.999	9.325	11.183
3845	ENSG00000169592	INO80E	1.1	0.1051802	0.221096	18.498	0.847	17.812	19.445	17.642	1.394	16.040	18.585
3847	ENSG00000151689	INPP1	1.6	4.066E-05	0.0004317	4.298	0.143	4.140	4.418	2.779	0.360	2.366	3.021
3848	ENSG00000040933	INPP4A	1	0.1221844	0.2462779	16.773	0.262	16.597	17.074	16.336	0.419	15.899	16.735
3849	ENSG00000068383	INPP5A	-1.2	0.0061423	0.0248231	11.259	0.727	10.438	11.819	13.586	1.286	12.744	15.066
3850	ENSG00000204084	INPP5B	1.1	0.0181145	0.058389	12.397	0.877	11.392	13.004	11.403	0.398	11.138	11.860
3851	ENSG00000148384	INPP5E	-1.4	2.449E-06	4.042E-05	7.106	0.655	6.397	7.689	10.130	0.998	9.284	11.230
3852	ENSG00000198825	INPP5F	1.1	0.0012045	0.0068293	25.409	0.687	24.619	25.858	22.904	0.902	22.315	23.942
3853	ENSG00000186480	INSIG1	1.8	8.94E-19	4.73E-16	72.893	2.915	71.186	76.258	40.974	3.053	37.612	43.573
3854	ENSG00000164880	INTS1	-1.1	0.0039606	0.0176376	36.129	0.167	35.997	36.317	40.632	2.766	38.868	43.820
3855	ENSG00000104613	INTS10	-1.1	0.0014377	0.0078211	18.479	0.520	18.141	19.078	21.580	1.829	19.511	22.984
3856	ENSG00000127054	INTS11	-1.2	0.0003012	0.0022173	19.502	0.560	19.070	20.135	22.975	1.218	21.730	24.164
3857	ENSG00000064102	INTS13	-1.3	5.44E-09	2.217E-07	55.721	1.890	53.663	57.381	72.095	2.005	69.780	73.313
3858	ENSG00000138614	INTS14	1.1	0.002886	0.0136345	32.356	0.303	32.168	32.706	29.167	1.817	27.352	30.986

	A	B	C	D	E	F	G	H	I	J	K	L	M
3860	ENSG00000185085	INTS5	-1.1	0.043136	0.1132856	10.973	0.630	10.247	11.384	12.712	1.444	11.819	14.378
3861	ENSG00000102786	INTS6	-1.1	0.0223074	0.0685972	5.074	0.027	5.050	5.102	5.641	0.107	5.561	5.762
3862	ENSG00000164941	INTS8	-1.3	2.712E-08	8.837E-07	26.889	1.205	25.731	28.136	35.127	3.103	31.707	37.765
3864	ENSG00000104299	INTS9	1.6	1.633E-08	5.683E-07	10.593	1.095	9.632	11.785	6.917	0.850	6.090	7.789
3865	ENSG00000119509	INVS	1.2	0.0326388	0.0921569	8.087	0.937	7.383	9.150	7.161	0.934	6.515	8.231
3866	ENSG00000068745	IP6K2	-1.2	3.368E-07	7.724E-06	44.003	1.089	42.767	44.823	54.135	0.442	53.858	54.645
3867	ENSG00000074706	IPCEF1	2.8	0.0047511	0.0203381	0.157	0.031	0.122	0.176	0.056	0.017	0.039	0.074
3868	ENSG00000205339	IPO7	-1.1	1.383E-05	0.0001756	242.807	8.692	235.847	252.550	281.828	9.168	272.330	290.626
3869	ENSG00000225674	IPO7P2	-1.2	0.0021492	0.0107258	38.485	1.650	36.597	39.653	45.669	2.076	43.573	47.724
3871	ENSG00000198700	IPO9	1.1	0.0617229	0.1487276	46.010	1.074	44.814	46.895	44.780	1.258	43.560	46.073
3872	ENSG00000166578	IQCD	1.4	0.044295	0.1157721	1.867	0.165	1.682	1.999	1.308	0.369	0.882	1.526
3874	ENSG00000106012	IQCE	1.2	0.0168297	0.0552058	2.277	0.259	1.981	2.462	1.880	0.238	1.607	2.048
3876	ENSG00000114473	IQCG	1.3	0.0037708	0.0169092	2.207	0.282	2.015	2.532	1.674	0.130	1.541	1.800
3877	ENSG00000145703	IQGAP2	-1.1	0.1104701	0.2291368	37.160	3.861	34.916	41.618	40.285	2.281	37.823	42.325
3879	ENSG00000144711	IQSEC1	-1.1	0.0862748	0.1920461	15.349	0.495	14.964	15.907	16.863	1.024	16.248	18.044
3880	ENSG00000120645	IQSEC3	-1.3	0.0042162	0.0185171	1.612	0.105	1.527	1.730	2.180	0.371	1.824	2.564
3881	ENSG00000134070	IRAK2	1.7	0.0011793	0.006711	2.455	0.869	1.653	3.379	1.494	0.107	1.392	1.605
3882	ENSG00000090376	IRAK3	1.4	0.010558	0.0380903	0.834	0.080	0.768	0.923	0.609	0.106	0.534	0.730
3883	ENSG00000189001	IRAK4	1.1	0.1239764	0.2489981	6.771	0.484	6.273	7.239	6.255	0.540	5.781	6.842
3884	ENSG00000136381	IREB2	-1.1	0.0077658	0.0299322	49.562	2.500	46.753	51.543	54.821	2.080	52.958	57.065
3885	ENSG00000125347	IRF1	-1.3	0.0305929	0.0875792	1.089	0.144	0.974	1.250	1.436	0.087	1.364	1.533
3887	ENSG00000137265	IRF4	-1.4	0.070897	0.1653358	0.477	0.179	0.328	0.676	0.704	0.067	0.632	0.764
3889	ENSG00000117595	IRF6	-1.2	0.0017104	0.0090146	16.666	0.345	16.292	16.972	19.655	0.436	19.156	19.965
3891	ENSG00000185507	IRF7	-1.5	0.0002476	0.001895	4.603	0.871	3.710	5.450	7.201	1.653	6.146	9.105
3892	ENSG00000140968	IRF8	-2	0.009419	0.0346839	0.230	0.030	0.200	0.260	0.478	0.251	0.259	0.752
3893	ENSG00000213928	IRF9	1.3	0.085536	0.190778	1.197	0.277	0.896	1.440	0.907	0.145	0.748	1.031
3894	ENSG00000167378	IRGQ	-1.3	1.587E-05	0.0001951	8.098	0.407	7.684	8.498	10.358	0.491	9.921	10.889
3895	ENSG00000133124	IRS4	1.3	0.000821	0.0049767	11.198	0.684	10.620	11.953	9.123	1.107	7.907	10.074
3897	ENSG00000170561	IRX2	-1.1	0.0764925	0.1750869	34.828	2.674	32.155	37.502	39.308	3.422	35.475	42.058
3899	ENSG00000177508	IRX3	-1.3	0.0972641	0.2091047	1.424	0.096	1.331	1.523	1.921	0.454	1.397	2.187
3901	ENSG00000135070	ISCA1	1.2	0.0002409	0.0018537	38.564	1.518	37.369	40.271	33.857	0.804	32.973	34.546
3903	ENSG00000165898	ISCA2	-1.2	0.0003848	0.0027095	30.145	0.679	29.398	30.725	36.470	3.084	33.028	38.982
3904	ENSG00000182149	IST1	-1.1	0.013833	0.0473309	63.956	1.526	62.917	65.708	69.778	1.129	68.906	71.053
3905	ENSG00000105655	ISYNA1	-1.1	0.0690484	0.1621289	98.752	2.834	96.706	101.987	107.009	4.147	102.551	110.751
3906	ENSG00000078747	ITCH	-1.2	8.244E-05	0.0007712	32.049	1.327	31.009	33.543	38.386	3.343	34.886	41.546
3907	ENSG00000129636	ITFG1	1.3	6.391E-07	1.318E-05	15.789	0.614	15.109	16.304	12.739	0.190	12.520	12.866
3909	ENSG00000111203	ITFG2	1.1	0.0854485	0.190608	5.808	0.536	5.268	6.341	5.311	0.369	4.886	5.555
3910	ENSG00000213949	ITGA1	1.1	0.0481204	0.1232622	1.601	0.121	1.496	1.733	1.425	0.124	1.285	1.525
3911	ENSG00000164171	ITGA2	-1.2	0.0052077	0.0217756	5.855	0.208	5.656	6.070	7.106	0.808	6.420	7.996
3912	ENSG00000005961	ITGA2B	-1.3	0.0002916	0.0021622	3.629	0.135	3.513	3.777	4.930	0.123	4.790	5.021
3916	ENSG00000005884	ITGA3	1.2	0.0503586	0.1277127	10.417	2.022	8.846	12.698	8.899	0.911	7.858	9.551
3917	ENSG00000115232	ITGA4	-1.5	0.0013362	0.0073859	0.894	0.164	0.729	1.056	1.364	0.029	1.331	1.386
3919	ENSG00000161638	ITGA5	1.3	1.824E-07	4.637E-06	16.309	0.712	15.823	17.126	12.724	0.745	12.136	13.561

	A	B	C	D	E	F	G	H	I	J	K	L	M
3920	ENSG00000091409	ITGA6	1	0.0858773	0.1914267	119.443	5.786	112.794	123.327	116.426	2.353	114.672	119.101
3924	ENSG00000135424	ITGA7	1.3	2.578E-08	8.466E-07	40.533	1.732	38.970	42.396	32.291	2.265	29.957	34.480
3925	ENSG00000138448	ITGAV	1.1	0.0088653	0.0330625	33.694	1.622	32.747	35.567	31.506	0.248	31.321	31.788
3927	ENSG00000150093	ITGB1	1.1	0.0017658	0.0092288	226.231	15.842	215.616	244.441	211.659	1.045	210.580	212.667
3928	ENSG00000132470	ITGB4	-1.2	0.0380755	0.1029775	2.665	0.116	2.577	2.797	3.231	0.096	3.124	3.308
3931	ENSG00000082781	ITGB5	1.2	1.861E-07	4.684E-06	53.895	2.772	52.180	57.093	45.137	2.469	43.600	47.985
3932	ENSG00000105855	ITGB8	1.4	6.423E-05	0.0006298	2.193	0.196	1.987	2.378	1.638	0.182	1.465	1.828
3933	ENSG00000123243	ITIH5	1.3	0.0002777	0.0020804	2.119	0.186	1.905	2.241	1.647	0.076	1.593	1.734
3934	ENSG00000078596	ITM2A	-1.2	0.0016854	0.0089133	20.796	0.966	19.758	21.668	25.545	1.095	24.817	26.804
3935	ENSG00000136156	ITM2B	1.1	0.0286344	0.0832406	43.724	1.470	42.354	45.277	41.877	2.283	39.760	44.296
3936	ENSG00000135916	ITM2C	1.2	1.593E-08	5.591E-07	368.719	1.176	367.584	369.932	313.649	15.380	297.341	327.893
3937	ENSG00000125877	ITPA	-1.1	0.0426046	0.1121687	46.438	1.448	45.249	48.050	51.599	1.557	50.144	53.241
3938	ENSG00000100605	ITPK1	-1.2	0.0002138	0.0016795	28.438	0.400	28.115	28.885	33.871	3.877	31.481	38.345
3940	ENSG00000143772	ITPKB	1.3	1.244E-05	0.0001609	8.280	0.515	7.827	8.840	6.497	0.424	6.026	6.846
3942	ENSG00000150995	ITPR1	-1.1	0.0862497	0.1920154	2.270	0.240	2.039	2.519	2.605	0.136	2.485	2.753
3943	ENSG00000123104	ITPR2	1.1	0.0334221	0.093727	15.818	2.231	14.396	18.389	14.603	0.363	14.214	14.935
3944	ENSG00000148841	ITPRIP	1.1	0.1195434	0.2421651	8.475	0.117	8.390	8.609	8.002	0.274	7.767	8.303
3948	ENSG00000198885	ITPRIPL1	1.2	0.0267129	0.0788199	5.402	0.219	5.252	5.653	4.681	0.118	4.572	4.807
3949	ENSG00000205730	ITPRIPL2	1.3	0.0006816	0.004287	5.516	0.861	4.525	6.068	4.211	0.498	3.841	4.778
3950	ENSG00000205726	ITSN1	-1.1	2.876E-05	0.0003219	15.720	0.027	15.698	15.750	18.268	0.453	17.745	18.547
3951	ENSG00000116679	IVNS1ABP	1.1	0.0016719	0.0088561	132.717	3.091	130.504	136.249	124.809	1.384	123.213	125.665
3952	ENSG00000077684	JADE1	-1.1	3.547E-05	0.0003833	80.932	2.225	79.186	83.437	93.614	4.362	88.631	96.743
3953	ENSG00000043143	JADE2	1.4	6.523E-09	2.584E-07	14.211	0.688	13.678	14.988	10.387	0.511	9.969	10.958
3954	ENSG00000101384	JAG1	-1.1	0.0516846	0.1302162	28.784	2.341	26.314	30.971	31.564	1.182	30.221	32.443
3955	ENSG00000184916	JAG2	-1.2	0.0150744	0.0506363	2.601	0.254	2.310	2.770	3.306	0.524	2.792	3.838
3957	ENSG00000171135	JAGN1	-1.3	1.292E-05	0.0001658	21.817	1.081	21.118	23.062	29.134	1.203	28.315	30.515
3958	ENSG00000162434	JAK1	1.1	0.0044661	0.0193728	27.791	1.132	26.863	29.052	25.657	1.139	24.860	26.962
3959	ENSG00000096968	JAK2	1.3	0.0135969	0.046646	3.417	0.094	3.332	3.518	2.783	0.423	2.416	3.246
3960	ENSG00000105639	JAK3	-1.2	0.002763	0.0132058	4.878	0.330	4.616	5.248	6.093	0.371	5.854	6.519
3961	ENSG00000176049	JAKMIP2	1.2	6.978E-05	0.0006736	13.623	0.500	13.101	14.097	11.818	0.139	11.678	11.955
3963	ENSG00000280780	JAKMIP2-AS1	-2	4.898E-07	1.063E-05	2.928	0.740	2.122	3.578	6.080	0.395	5.644	6.416
3964	ENSG00000140044	JDP2	1.5	2.264E-07	5.478E-06	8.244	0.347	7.885	8.578	5.791	0.286	5.604	6.121
3965	ENSG00000050130	JKAMP	1.1	0.1124878	0.2318999	24.090	2.125	21.748	25.897	22.894	1.619	21.033	23.978
3966	ENSG00000171988	JMJD1C	1.1	0.0323979	0.0916297	87.337	2.604	84.831	90.029	84.338	2.054	81.972	85.675
3967	ENSG00000081692	JMJD4	-1.1	0.1020694	0.2162741	4.154	0.121	4.040	4.281	4.816	0.187	4.603	4.951
3968	ENSG00000168970	JMJD7-PLA2G4B	-1.3	0.0019015	0.0097862	1.689	0.002	1.687	1.691	2.322	0.129	2.229	2.469
3969	ENSG00000161999	JMJD8	-1.1	0.1230348	0.2475479	31.331	0.233	31.136	31.589	34.370	2.951	31.273	37.150
3970	ENSG00000152409	JMY	-1.1	0.0066836	0.0265226	13.039	0.547	12.598	13.651	14.904	0.531	14.307	15.325
3974	ENSG00000104369	JPH1	1.1	0.0149184	0.0502317	16.656	0.893	15.996	17.672	15.205	0.536	14.721	15.781
3975	ENSG00000149596	JPH2	2.1	1.016E-07	2.781E-06	2.527	0.513	1.987	3.008	1.243	0.102	1.132	1.333
3976	ENSG00000092051	JPH4	-1.2	1.274E-05	0.000164	19.063	0.234	18.862	19.320	23.818	1.587	22.201	25.374

	A	B	C	D	E	F	G	H	I	J	K	L	M
3978	ENSG00000206053	JPT2	1.1	0.019638	0.0620819	109.426	3.458	105.454	111.770	104.845	0.931	104.024	105.856
3983	ENSG00000225470	JPX	1.2	0.0002024	0.0016106	11.663	0.703	10.907	12.298	10.224	0.256	9.995	10.500
3985	ENSG00000234616	JRK	-1.1	0.0044729	0.0193973	15.057	0.879	14.043	15.604	17.072	0.475	16.527	17.404
3986	ENSG00000177606	JUN	1.6	4.437E-10	2.367E-08	19.328	0.852	18.350	19.907	12.449	1.566	11.055	14.143
3987	ENSG00000130522	JUND	1.1	0.0077478	0.0298869	76.244	1.287	75.332	77.716	68.146	7.589	59.519	73.792
3988	ENSG00000173801	JUP	-1.1	0.0003186	0.0023186	58.985	2.425	56.584	61.434	68.536	3.717	65.039	72.440
3989	ENSG00000197256	KANK2	1.3	2.631E-06	4.307E-05	16.717	1.650	15.039	18.337	13.353	0.349	13.000	13.699
3990	ENSG00000186994	KANK3	1.2	0.0796051	0.1805742	3.325	0.427	2.835	3.617	2.791	0.338	2.549	3.177
3992	ENSG00000232593	KANTR	-1.1	0.0401702	0.1073129	4.793	0.489	4.322	5.298	5.589	0.616	4.881	6.003
3993	ENSG00000065427	KARS	-1.1	4.284E-05	0.0004512	131.979	4.797	128.167	137.366	152.394	0.726	151.555	152.821
3994	ENSG00000108773	KAT2A	-1.3	8.26E-07	1.624E-05	31.399	0.851	30.732	32.357	40.137	0.740	39.297	40.692
3995	ENSG00000083168	KAT6A	-1.1	0.0559705	0.1383353	16.103	0.492	15.771	16.668	17.574	0.083	17.485	17.650
3997	ENSG00000136504	KAT7	-1.3	2.90E-12	2.814E-10	23.712	0.842	22.936	24.607	32.446	0.724	31.676	33.113
3999	ENSG00000103510	KAT8	-1.2	7.873E-07	1.561E-05	28.289	0.747	27.816	29.151	36.107	2.240	33.755	38.216
4000	ENSG00000140854	KATNB1	1.1	0.0755363	0.1733675	20.078	0.450	19.778	20.595	18.964	0.954	17.921	19.793
4001	ENSG00000189337	KAZN	1.1	0.1242856	0.2493386	3.318	0.082	3.227	3.385	3.101	0.232	2.833	3.237
4002	ENSG00000176595	KBTBD11	1.2	0.0649371	0.1546438	4.612	0.651	4.108	5.347	4.091	0.393	3.656	4.421
4005	ENSG00000182359	KBTBD3	-1.4	0.0053334	0.0221796	1.781	0.173	1.607	1.954	2.480	0.200	2.297	2.693
4006	ENSG00000123444	KBTBD4	-1.1	0.0950413	0.2059927	8.388	0.059	8.347	8.456	9.552	0.470	9.141	10.065
4008	ENSG00000165572	KBTBD6	-1.1	0.0279408	0.0817157	11.517	0.551	10.890	11.926	13.260	0.150	13.129	13.424
4009	ENSG00000120696	KBTBD7	-1.2	3.697E-05	0.0003972	15.869	0.723	15.126	16.572	20.111	1.388	18.863	21.606
4010	ENSG00000176407	KCMF1	-1.1	0.0075062	0.0290908	36.821	1.344	35.320	37.912	40.948	1.608	39.098	42.015
4011	ENSG00000111262	KCNA1	2.1	5.954E-06	8.592E-05	1.142	0.185	0.960	1.330	0.565	0.018	0.548	0.584
4013	ENSG00000169282	KCNAB1	1.5	0.001204	0.0068288	1.571	0.295	1.251	1.832	1.061	0.063	1.023	1.133
4014	ENSG00000069424	KCNAB2	1.7	9.14E-09	3.45E-07	4.691	0.581	4.292	5.358	2.839	0.223	2.690	3.095
4015	ENSG00000170049	KCNAB3	-1.3	0.0208995	0.0653492	1.940	0.108	1.870	2.064	2.604	0.240	2.368	2.848
4016	ENSG00000158445	KCNB1	1.2	0.1004587	0.2138524	0.635	0.117	0.508	0.739	0.538	0.041	0.492	0.570
4017	ENSG00000116396	KCNC4	-1.1	0.1005898	0.2139969	3.213	0.177	3.013	3.351	3.553	0.184	3.374	3.741
4018	ENSG00000102057	KCND1	-1.2	0.1022034	0.2165041	2.609	0.441	2.258	3.104	3.102	0.339	2.730	3.394
4019	ENSG00000184408	KCND2	1.2	0.0056455	0.023277	8.034	0.538	7.606	8.638	6.967	0.261	6.813	7.269
4022	ENSG00000175538	KCNE3	1.3	0.0085735	0.0321943	3.880	0.265	3.606	4.136	3.020	0.076	2.935	3.083
4023	ENSG00000176076	KCNE5	1.4	0.0113937	0.0404666	7.681	1.669	6.716	9.609	5.778	0.307	5.521	6.118
4025	ENSG00000162975	KCNF1	1.5	0.0191439	0.0608955	1.854	0.361	1.562	2.258	1.252	0.287	1.018	1.572
4026	ENSG00000171126	KCNG3	-1.4	0.0001615	0.001342	4.299	0.618	3.784	4.984	6.250	0.243	6.012	6.498
4027	ENSG00000055118	KCNH2	-1.3	0.0001225	0.0010671	5.202	0.643	4.497	5.755	7.090	0.543	6.553	7.639
4028	ENSG00000184611	KCNH7	-1.7	0.0071593	0.0280224	0.516	0.102	0.419	0.623	0.927	0.331	0.723	1.309
4030	ENSG00000183960	KCNH8	-1.3	0.0021075	0.0105684	2.715	0.252	2.547	3.005	3.619	0.381	3.256	4.016
4031	ENSG00000184185	KCNJ12	-1.4	0.0291989	0.0845183	0.923	0.119	0.854	1.061	1.292	0.275	1.009	1.559
4033	ENSG00000182324	KCNJ14	-1.6	0.0413341	0.1096257	0.501	0.054	0.442	0.549	0.824	0.161	0.685	1.000
4036	ENSG00000100433	KCNK10	1.4	0.0612092	0.1479113	0.497	0.087	0.429	0.595	0.360	0.112	0.246	0.470
4037	ENSG00000164626	KCNK5	-1.2	1.362E-05	0.0001732	26.077	2.285	24.686	28.714	32.764	1.700	31.769	34.728
4039	ENSG00000099337	KCNK6	-1.4	1.058E-07	2.867E-06	7.390	0.342	7.036	7.719	10.541	0.671	9.824	11.155
4041	ENSG00000135643	KCNMB4	1.1	0.0633832	0.1519906	17.820	0.707	17.005	18.266	16.763	0.521	16.218	17.257

	A	B	C	D	E	F	G	H	I	J	K	L	M
4042	ENSG00000080709	KCNN2	-1.2	0.0587234	0.1432501	4.881	0.441	4.473	5.349	5.822	0.773	5.225	6.694
4043	ENSG00000143603	KCNN3	-1.2	0.067724	0.1598181	0.788	0.077	0.739	0.877	0.971	0.105	0.871	1.081
4045	ENSG00000269821	KCNQ1OT1	-1.3	0.0231098	0.0705573	0.208	0.023	0.193	0.235	0.283	0.054	0.221	0.322
4049	ENSG00000075043	KCNQ2	-1.3	4.346E-05	0.0004562	5.612	0.146	5.459	5.749	7.570	0.724	6.898	8.337
4052	ENSG00000185760	KCNQ5	-1.6	0.0129987	0.0450322	0.385	0.139	0.254	0.531	0.641	0.215	0.393	0.772
4055	ENSG00000124134	KCNS1	1.5	0.0005456	0.0035908	2.818	0.217	2.637	3.058	1.901	0.385	1.545	2.309
4056	ENSG00000162687	KCNT2	-1.1	0.0759825	0.1741639	7.990	0.351	7.699	8.380	9.013	0.481	8.701	9.567
4057	ENSG00000110906	KCTD10	1.1	0.0407964	0.108598	20.105	1.612	18.439	21.656	19.091	0.167	18.898	19.190
4060	ENSG00000178695	KCTD12	1.2	0.0020972	0.0105369	9.259	0.888	8.372	10.148	7.820	0.449	7.534	8.338
4061	ENSG00000174943	KCTD13	-1.2	0.0368848	0.1006183	3.991	0.405	3.647	4.437	4.813	0.381	4.377	5.084
4062	ENSG00000153885	KCTD15	1.1	0.0189684	0.0604717	15.460	0.919	14.399	16.027	14.203	1.009	13.376	15.327
4064	ENSG00000183775	KCTD16	-1.9	0.0026759	0.0128794	0.131	0.042	0.093	0.176	0.259	0.054	0.198	0.304
4065	ENSG00000100379	KCTD17	-1.1	0.0332852	0.093436	14.715	1.721	13.302	16.631	17.040	0.606	16.667	17.739
4067	ENSG00000155729	KCTD18	1.2	0.0021219	0.0106196	7.334	0.250	7.119	7.608	6.014	0.664	5.263	6.523
4068	ENSG00000112078	KCTD20	1.1	0.0228714	0.0700387	38.865	1.242	37.945	40.278	37.002	0.957	36.292	38.091
4070	ENSG00000246174	KCTD21- AS1	-1.2	0.1157282	0.2365616	2.376	0.529	1.768	2.729	2.901	0.219	2.731	3.148
4071	ENSG00000136636	KCTD3	-1.1	0.0613135	0.1480364	63.398	2.874	60.307	65.989	68.612	3.337	66.323	72.440
4072	ENSG00000183783	KCTD8	-1.4	0.0343019	0.0954818	1.606	0.295	1.267	1.803	2.265	0.283	1.967	2.530
4073	ENSG00000134901	KDELC1	1.4	1.566E-06	2.754E-05	26.751	0.734	26.152	27.570	19.930	2.083	17.906	22.068
4074	ENSG00000178202	KDELC2	1.1	0.0352672	0.0974312	21.716	0.415	21.428	22.192	20.435	0.319	20.172	20.790
4075	ENSG00000105438	KDELR1	-1.1	0.0001197	0.001047	153.050	6.236	146.136	158.251	178.464	10.283	171.780	190.305
4077	ENSG00000165097	KDM1B	-1.2	0.0096226	0.0353108	4.631	0.178	4.437	4.788	5.757	0.379	5.408	6.161
4078	ENSG00000089094	KDM2B	1.1	0.0025399	0.0123299	27.975	1.552	26.184	28.945	25.933	1.335	25.114	27.473
4079	ENSG00000066135	KDM4A	-1.2	3.578E-06	5.572E-05	61.581	3.334	57.779	64.007	73.916	1.934	72.085	75.938
4082	ENSG00000236200	KDM4A- AS1	-1.8	0.0156968	0.0522908	0.843	0.303	0.540	1.147	1.547	0.435	1.046	1.815
4083	ENSG00000127663	KDM4B	-1.1	0.0841458	0.1885978	10.826	0.834	10.143	11.756	11.833	0.801	10.910	12.337
4085	ENSG00000073614	KDM5A	-1.1	0.0445438	0.1161711	15.767	0.276	15.459	15.995	17.186	0.391	16.770	17.545
4087	ENSG00000117139	KDM5B	-1.1	2.617E-06	4.298E-05	68.707	0.581	68.316	69.374	80.238	0.888	79.242	80.945
4092	ENSG00000147050	KDM6A	1.4	3.00E-11	2.228E-09	144.149	10.191	132.382	150.058	105.801	6.517	101.590	113.307
4095	ENSG00000006459	KDM7A	-1.1	0.0527704	0.1324193	13.033	0.269	12.729	13.240	14.324	0.670	13.669	15.007
4096	ENSG00000128052	KDR	-1.2	0.0051183	0.0215178	50.377	5.467	46.123	56.543	60.329	5.163	55.108	65.432
4098	ENSG00000119537	KDSR	1.2	7.461E-05	0.0007117	13.332	0.835	12.774	14.292	11.292	0.451	10.854	11.756
4099	ENSG00000079999	KEAP1	-1.1	0.0171026	0.0558194	30.587	1.695	29.129	32.447	34.721	2.492	32.570	37.452
4100	ENSG00000197993	KEL	-1.3	0.0259234	0.0770161	2.127	0.515	1.544	2.522	2.864	0.470	2.552	3.404
4103	ENSG00000131773	KHDRBS3	1.2	0.0041361	0.018255	7.104	0.381	6.802	7.532	6.249	0.249	6.018	6.513
4104	ENSG00000100441	KHNYN	-1.1	0.0512777	0.1294031	27.558	0.499	26.995	27.945	30.051	1.951	28.484	32.236
4107	ENSG00000088247	KHSRP	-1.1	0.0423516	0.1117114	160.814	2.404	158.323	163.119	173.751	6.279	167.527	180.083
4108	ENSG00000235750	KIAA0040	1.3	2.582E-05	0.0002941	17.670	0.734	16.914	18.379	14.371	1.063	13.145	15.033
4109	ENSG00000081791	KIAA0141	-1.1	0.0030244	0.0141889	31.469	1.434	29.959	32.812	35.698	1.371	34.748	37.270

	A	B	C	D	E	F	G	H	I	J	K	L	M
4113	ENSG00000170871	KIAA0232	1.2	1.178E-05	0.0001533	26.730	0.954	25.640	27.413	23.166	0.974	22.414	24.266
4115	ENSG00000137261	KIAA0319	1.9	0.0013675	0.0075164	0.723	0.222	0.535	0.968	0.391	0.057	0.326	0.433
4117	ENSG00000136813	KIAA0368	1.1	0.0046313	0.0199313	67.602	3.038	65.415	71.070	63.502	3.114	59.909	65.418
4118	ENSG00000100578	KIAA0586	-1.1	0.0492136	0.1255997	9.920	0.700	9.154	10.525	11.031	0.391	10.659	11.438
4119	ENSG00000185261	KIAA0825	1.5	5.847E-06	8.489E-05	3.515	0.540	2.979	4.059	2.402	0.141	2.239	2.496
4121	ENSG00000196123	KIAA0895L	-1.2	0.0010761	0.0062456	8.800	0.355	8.478	9.180	11.136	0.845	10.160	11.648
4122	ENSG00000132680	KIAA0907	-1.2	3.08E-06	4.891E-05	32.801	1.596	31.436	34.556	40.557	1.559	39.273	42.292
4124	ENSG00000100364	KIAA0930	1.1	0.0677915	0.1598881	19.245	0.714	18.421	19.658	18.423	0.948	17.790	19.513
4125	ENSG00000163807	KIAA1143	-1.1	0.0303595	0.0870437	44.364	2.298	42.622	46.969	48.957	0.949	48.123	49.990
4126	ENSG00000257093	KIAA1147	-1.1	0.0463207	0.1197892	31.573	0.611	31.171	32.275	34.402	1.186	33.055	35.294
4129	ENSG00000109265	KIAA1211	1.1	0.0482964	0.1236321	12.989	0.195	12.764	13.114	12.171	0.453	11.702	12.605
4130	ENSG00000196872	KIAA1211L	2.5	4.719E-05	0.0004884	1.270	0.191	1.130	1.488	0.510	0.105	0.396	0.603
4132	ENSG00000120549	KIAA1217	1.3	5.968E-07	1.249E-05	9.800	0.234	9.542	10.001	7.848	0.265	7.645	8.148
4133	ENSG00000150477	KIAA1328	-1.3	0.0039753	0.0176887	1.700	0.113	1.593	1.818	2.215	0.149	2.122	2.387
4134	ENSG00000164944	KIAA1429	-1.2	5.825E-07	1.224E-05	20.369	0.490	19.808	20.712	24.998	1.120	23.776	25.977
4135	ENSG00000165757	KIAA1462	-1.3	0.0031739	0.0147511	1.578	0.238	1.304	1.738	2.094	0.034	2.057	2.122
4136	ENSG00000134444	KIAA1468	1.1	0.0064112	0.0256524	16.796	0.464	16.449	17.324	15.429	0.706	15.001	16.243
4140	ENSG00000162522	KIAA1522	-1.2	5.165E-08	1.532E-06	50.803	1.853	49.528	52.929	64.115	1.917	62.642	66.283
4141	ENSG00000163507	KIAA1524	-1.1	0.0912282	0.2003821	37.066	1.555	35.595	38.693	40.467	3.046	37.845	43.808
4143	ENSG00000122778	KIAA1549	-1.1	0.0408253	0.1086215	7.887	0.299	7.544	8.092	8.824	0.862	7.898	9.603
4145	ENSG00000174718	KIAA1551	-1.1	0.0015592	0.0083532	36.824	0.538	36.204	37.168	42.301	1.916	40.403	44.234
4146	ENSG00000138944	KIAA1644	1.4	1.466E-05	0.0001831	5.309	0.278	5.098	5.624	3.886	0.348	3.508	4.193
4147	ENSG00000162929	KIAA1841	1.1	0.0718233	0.1670674	4.972	0.444	4.623	5.472	4.526	0.251	4.239	4.703
4149	ENSG00000165185	KIAA1958	-1.2	5.534E-06	8.105E-05	11.607	0.272	11.295	11.794	14.682	1.254	13.235	15.456
4150	ENSG00000134313	KIDINS220	1.1	0.0993779	0.2124073	15.840	0.639	15.168	16.440	15.345	0.737	14.552	16.008
4152	ENSG00000138160	KIF11	-1.2	5.598E-05	0.0005616	75.640	5.776	70.708	81.994	89.519	5.170	86.052	95.462
4156	ENSG00000136883	KIF12	-1.5	0.0172108	0.0560644	1.424	0.450	0.931	1.811	2.135	0.279	1.815	2.324
4157	ENSG00000118193	KIF14	-1.2	1.684E-05	0.0002052	31.701	2.161	30.137	34.167	38.892	2.983	35.960	41.922
4159	ENSG00000163808	KIF15	-1.2	3.787E-06	5.833E-05	17.747	0.988	16.660	18.590	22.651	1.460	20.981	23.683
4160	ENSG00000117245	KIF17	-1.3	0.0002371	0.001833	7.369	1.077	6.144	8.164	9.839	0.475	9.296	10.180
4163	ENSG00000121621	KIF18A	-1.1	0.0104677	0.0378454	19.130	1.150	17.873	20.129	22.407	1.534	20.793	23.846
4166	ENSG00000130294	KIF1A	1.3	2.56E-12	2.546E-10	102.672	2.811	100.724	105.894	79.200	3.776	76.952	83.560
4167	ENSG00000054523	KIF1B	-1.1	0.0020389	0.0103093	33.311	1.166	32.120	34.450	37.167	0.564	36.758	37.811
4168	ENSG00000129250	KIF1C	-1.1	0.037132	0.1010643	37.100	2.133	34.898	39.156	40.473	1.067	39.621	41.670
4169	ENSG00000112984	KIF20A	-1.4	1.62E-13	2.11E-11	93.660	4.869	90.453	99.263	133.645	4.504	128.658	137.414
4170	ENSG00000116852	KIF21B	-1.1	0.0314277	0.0894842	12.956	0.254	12.699	13.206	14.360	1.076	13.689	15.601
4175	ENSG00000079616	KIF22	-1.1	0.0015041	0.0081065	87.485	1.598	86.217	89.280	98.392	1.156	97.350	99.635
4176	ENSG00000137807	KIF23	-1.1	0.0020713	0.0104321	59.392	2.666	56.819	62.142	67.208	4.348	63.342	71.916
4179	ENSG00000186638	KIF24	1.2	0.0063706	0.0255139	3.929	0.225	3.669	4.072	3.224	0.346	2.913	3.597
4180	ENSG00000066735	KIF26A	-1.4	2.696E-09	1.181E-07	12.681	0.441	12.304	13.165	18.616	2.184	17.267	21.136

	A	B	C	D	E	F	G	H	I	J	K	L	M
4181	ENSG00000142945	KIF2C	-1.3	5.34E-11	3.75E-09	119.577	0.853	118.934	120.545	158.102	8.475	148.612	164.919
4182	ENSG00000101350	KIF3B	-1.2	0.0001952	0.0015633	15.186	0.312	14.878	15.501	18.217	0.834	17.431	19.092
4183	ENSG00000090889	KIF4A	-1.2	4.251E-07	9.435E-06	55.082	2.641	53.369	58.123	68.124	2.195	66.520	70.626
4184	ENSG00000155980	KIF5A	-1.1	0.0798946	0.1810831	14.616	1.115	13.851	15.896	16.322	1.668	14.847	18.132
4185	ENSG00000170759	KIF5B	-1.1	0.0136866	0.046906	122.470	0.634	121.759	122.974	134.062	5.946	129.324	140.734
4187	ENSG00000168280	KIF5C	1.1	0.0465158	0.1201652	32.806	0.946	31.953	33.823	31.582	0.396	31.246	32.019
4188	ENSG00000088727	KIF9	-1.5	0.0096075	0.0352707	0.777	0.133	0.631	0.891	1.180	0.249	0.936	1.434
4189	ENSG00000237649	KIFC1	-1.1	0.0074967	0.0290607	84.363	0.451	83.967	84.854	94.044	3.585	89.907	96.224
4190	ENSG00000167702	KIFC2	-1.2	0.003329	0.015304	7.672	0.204	7.537	7.907	9.632	1.331	8.181	10.797
4191	ENSG00000140859	KIFC3	-1.3	0.0530906	0.1330057	1.123	0.324	0.816	1.461	1.449	0.206	1.278	1.678
4192	ENSG00000183853	KIRREL	1.2	3.68E-06	5.711E-05	24.522	0.764	23.903	25.376	20.630	1.533	18.953	21.957
4193	ENSG00000126259	KIRREL2	-1.2	0.0954539	0.2065787	3.490	0.542	2.881	3.921	4.231	0.599	3.750	4.902
4194	ENSG00000116014	KISS1R	1.6	0.0652573	0.1552595	1.293	0.310	0.967	1.583	0.818	0.269	0.596	1.117
4195	ENSG00000157404	KIT	-1.1	0.096296	0.2077364	15.187	1.044	14.013	16.014	16.763	1.284	15.300	17.699
4197	ENSG00000049130	KITLG	-1.2	0.0018343	0.0095165	13.318	1.428	12.230	14.936	16.658	2.404	14.526	19.263
4198	ENSG00000088970	KIZ	-1.2	6.956E-05	0.0006726	21.125	0.283	20.801	21.323	25.603	0.330	25.232	25.865
4200	ENSG00000126214	KLC1	-1.1	0.0057604	0.0236468	4.660	0.113	4.594	4.790	5.413	0.510	4.848	5.841
4201	ENSG00000174996	KLC2	-1.1	0.0128574	0.0445882	16.700	0.680	16.276	17.484	19.003	0.922	18.452	20.067
4202	ENSG00000155090	KLF10	1.5	2.86E-11	2.14E-09	27.612	1.199	26.313	28.677	18.605	1.824	17.109	20.637
4203	ENSG00000172059	KLF11	1.9	2.63E-11	1.99E-09	8.286	0.522	7.754	8.798	4.357	0.477	4.056	4.907
4204	ENSG00000118922	KLF12	1.3	2.726E-06	4.429E-05	7.006	0.422	6.628	7.461	5.508	0.250	5.225	5.701
4205	ENSG00000169926	KLF13	-1.2	0.0002448	0.0018785	20.371	1.050	19.317	21.417	23.974	1.417	22.910	25.582
4206	ENSG00000109787	KLF3	1.1	0.0081061	0.030899	15.565	0.314	15.217	15.828	14.277	0.274	14.046	14.579
4207	ENSG00000102554	KLF5	1.6	0.0004631	0.0031427	2.498	0.305	2.276	2.846	1.623	0.081	1.567	1.715
4208	ENSG00000067082	KLF6	-1.1	0.0861824	0.1918907	17.980	1.059	16.818	18.892	19.767	1.589	18.445	21.530
4209	ENSG00000118263	KLF7	1.3	7.923E-07	1.567E-05	10.234	1.117	9.294	11.469	7.759	0.320	7.396	8.000
4210	ENSG00000102349	KLF8	-1.1	0.0481228	0.1232622	7.367	0.345	7.070	7.745	8.312	0.312	7.953	8.494
4211	ENSG00000119138	KLF9	1.4	5.081E-05	0.0005189	4.924	0.441	4.422	5.253	3.510	0.422	3.091	3.934
4212	ENSG00000128607	KLHDC10	-1.1	0.114211	0.2342604	14.895	0.512	14.309	15.251	16.325	1.493	15.127	17.997
4214	ENSG00000124702	KLHDC3	-1.1	0.0405121	0.1080727	163.409	8.060	154.957	171.009	177.823	7.540	171.640	186.222
4215	ENSG00000179023	KLHDC7A	1.8	3.399E-10	1.91E-08	12.527	2.294	10.772	15.123	7.145	0.056	7.093	7.204
4216	ENSG00000162873	KLHDC8A	1.4	0.006078	0.0246161	3.072	0.521	2.750	3.673	2.203	0.455	1.874	2.722
4218	ENSG00000162755	KLHDC9	1.1	0.1146899	0.235052	10.306	0.225	10.050	10.472	9.143	1.309	7.762	10.366
4221	ENSG00000117153	KLHL12	1.1	0.0004043	0.0028141	66.369	2.005	64.803	68.629	59.643	3.925	56.404	64.009
4222	ENSG00000187961	KLHL17	-1.4	5.881E-05	0.0005852	10.105	1.202	9.259	11.481	13.980	1.640	12.259	15.525
4223	ENSG00000114648	KLHL18	1.2	0.0016938	0.0089437	7.904	0.313	7.656	8.256	6.767	0.327	6.402	7.035
4224	ENSG00000109466	KLHL2	1.1	0.0122316	0.0429287	13.727	0.773	12.907	14.442	12.202	0.767	11.511	13.027
4225	ENSG00000162413	KLHL21	1.2	0.0070868	0.0277773	10.780	0.803	10.168	11.689	9.561	1.030	8.371	10.181
4226	ENSG00000213160	KLHL23	-1.1	0.0295317	0.0852337	49.384	1.619	47.571	50.686	54.362	2.143	52.969	56.831
4228	ENSG00000183655	KLHL25	-1.1	0.0999792	0.2132344	7.928	0.496	7.429	8.420	8.910	1.110	7.895	10.096
4229	ENSG00000146021	KLHL3	1.1	0.1000245	0.2132772	4.641	0.218	4.484	4.889	4.336	0.164	4.238	4.525
4231	ENSG00000102271	KLHL4	1.1	0.0352258	0.0973579	36.436	4.834	32.291	41.746	33.905	0.572	33.245	34.274
4233	ENSG00000087448	KLHL42	1.3	5.571E-07	1.182E-05	23.366	0.915	22.393	24.210	19.091	0.833	18.283	19.947

	A	B	C	D	E	F	G	H	I	J	K	L	M
4234	ENSG00000109790	KLHL5	1.1	0.0027127	0.0130194	27.124	0.569	26.595	27.726	24.240	1.337	22.925	25.598
4235	ENSG00000167748	KLK1	-1.6	0.0319092	0.0906111	0.831	0.132	0.683	0.940	1.373	0.629	0.912	2.090
4237	ENSG00000164344	KLKB1	-1.1	0.0299012	0.086036	10.951	0.442	10.606	11.450	12.834	0.389	12.446	13.224
4242	ENSG00000256667	KLRA1P	-1.8	1.113E-07	2.989E-06	5.043	0.889	4.266	6.013	9.305	1.180	8.530	10.664
4243	ENSG00000139187	KLRG1	1.3	0.0671517	0.1588664	2.335	0.718	1.548	2.955	1.806	0.308	1.505	2.120
4244	ENSG00000188883	KLRG2	-1.1	0.0392258	0.1053727	18.206	0.956	17.282	19.191	21.096	1.751	19.156	22.560
4245	ENSG00000118058	KMT2A	-1.1	0.0103694	0.0375622	17.511	0.356	17.292	17.922	19.315	0.256	19.021	19.485
4247	ENSG00000272333	KMT2B	-1.2	0.0002389	0.0018431	12.533	0.419	12.267	13.016	14.972	0.738	14.413	15.809
4249	ENSG00000055609	KMT2C	-1.1	0.0001296	0.0011176	10.616	0.447	10.276	11.123	12.466	0.442	12.132	12.967
4252	ENSG00000167548	KMT2D	-1.1	0.0043881	0.0191032	17.509	0.921	16.491	18.283	19.978	1.623	18.764	21.822
4253	ENSG00000005483	KMT2E	-1.1	0.0485539	0.1241973	19.955	0.519	19.593	20.550	21.824	0.682	21.128	22.490
4254	ENSG00000183955	KMT5A	1.1	0.106817	0.2236462	8.635	0.329	8.410	9.012	8.032	0.366	7.648	8.376
4255	ENSG00000110066	KMT5B	-1.2	6.796E-05	0.0006594	19.058	0.978	18.250	20.145	22.768	0.482	22.363	23.300
4256	ENSG00000133247	KMT5C	-1.2	0.0005201	0.0034603	19.000	0.186	18.800	19.167	22.889	1.760	21.222	24.729
4257	ENSG00000171798	KNDC1	1.2	0.0017201	0.0090572	10.320	0.433	9.855	10.713	8.928	0.520	8.339	9.323
4258	ENSG00000137812	KNL1	-1.1	0.028408	0.082754	16.563	1.659	15.073	18.351	18.485	0.876	17.477	19.058
4260	ENSG00000103550	KNOP1	-1.1	0.030395	0.0871033	39.675	1.244	38.528	40.997	43.251	1.048	42.442	44.435
4261	ENSG00000128944	KNSTRN	-1.2	5.073E-06	7.526E-05	50.244	2.453	47.419	51.834	61.606	3.877	57.377	64.992
4262	ENSG00000184445	KNTC1	-1.1	0.019719	0.0623029	28.500	1.623	26.843	30.086	31.314	0.282	31.046	31.609
4264	ENSG00000114030	KPNA1	-1.1	0.0611623	0.1478402	27.090	0.484	26.620	27.586	29.536	1.785	27.565	31.043
4265	ENSG00000182481	KPNA2	-1.2	5.23E-10	2.747E-08	671.794	9.808	661.837	681.446	837.331	40.800	794.055	875.093
4268	ENSG00000102753	KPNA3	-1.1	0.0048579	0.0207009	65.795	3.293	62.171	68.603	74.014	1.621	72.589	75.778
4269	ENSG00000196911	KPNA5	-1.3	2.738E-07	6.495E-06	7.288	0.378	6.900	7.656	9.988	0.997	9.018	11.009
4272	ENSG00000025800	KPNA6	-1.1	0.0720096	0.1674086	47.642	1.265	46.859	49.102	51.400	2.819	48.147	53.130
4273	ENSG00000133703	KRAS	-1.2	8.068E-06	0.0001109	61.685	0.543	61.356	62.312	73.036	2.307	71.056	75.570
4274	ENSG00000131650	KREMEN2	1.4	0.0002248	0.0017531	10.500	0.758	9.689	11.191	7.838	0.948	7.129	8.915
4275	ENSG00000129347	KRI1	-1.1	0.0548949	0.136535	14.615	0.950	13.573	15.432	16.470	0.931	15.871	17.543
4277	ENSG00000111057	KRT18	1.3	3.413E-10	1.911E-08	229.563	9.276	223.964	240.270	184.756	6.261	180.998	191.983
4278	ENSG00000214207	KRT18P10	1.4	0.0682629	0.1607321	2.737	0.248	2.525	3.010	1.962	0.714	1.146	2.471
4280	ENSG00000213943	KRT18P17	1.3	0.0719477	0.1672879	7.036	0.940	6.057	7.932	5.638	0.916	4.748	6.577
4281	ENSG00000213958	KRT18P29	1.5	0.0115197	0.0408456	4.776	0.321	4.430	5.063	3.263	0.744	2.407	3.759
4282	ENSG00000171345	KRT19	-1.1	0.1094183	0.2275692	78.139	3.212	75.261	81.604	85.215	2.703	82.122	87.123
4283	ENSG00000135480	KRT7	-1.9	1.095E-09	5.278E-08	4.248	0.659	3.643	4.950	8.344	1.090	7.176	9.334
4284	ENSG00000170421	KRT8	1.1	0.0141185	0.0480939	113.321	3.048	110.763	116.693	107.821	3.252	105.579	111.551
4285	ENSG00000229320	KRT8P12	1.2	0.0717654	0.1669556	9.264	1.029	8.083	9.971	8.044	1.046	6.848	8.786
4286	ENSG00000250539	KRT8P33	1.2	0.0266685	0.0787301	10.133	0.428	9.685	10.538	8.412	0.182	8.204	8.541
4287	ENSG00000213771	KRT8P37	1.3	0.1230773	0.2475935	3.400	0.430	2.931	3.777	2.690	0.293	2.377	2.958
4288	ENSG00000163463	KRTCAP2	-1.3	0.0018265	0.0094789	5.137	0.460	4.631	5.530	6.766	0.345	6.368	6.982
4289	ENSG00000157992	KRTCAP3	1.1	0.1231631	0.2476587	31.561	2.486	29.839	34.412	29.237	2.694	26.169	31.213
4290	ENSG00000171435	KSR2	-1.6	0.0001344	0.0011503	0.584	0.176	0.428	0.774	0.935	0.061	0.872	0.993
4292	ENSG00000126777	KTN1	1.1	0.0834369	0.1875057	43.323	1.084	42.496	44.550	41.567	2.190	39.238	43.585
4295	ENSG00000105700	KXD1	-1.1	0.0218063	0.0674947	61.190	0.600	60.576	61.775	66.985	1.551	65.342	68.425
4296	ENSG00000171097	KYAT1	1.1	0.1071968	0.2242725	22.247	1.346	20.995	23.670	21.101	0.870	20.124	21.794

	A	B	C	D	E	F	G	H	I	J	K	L	M
4297	ENSG00000137944	KYAT3	1.1	0.0470722	0.1213247	88.869	1.568	87.068	89.934	84.693	5.847	78.335	89.839
4298	ENSG00000240563	L1TD1	1.2	0.00144	0.0078211	534.219	18.868	512.464	546.121	469.492	9.517	459.737	478.753
4299	ENSG00000185513	L3MBTL1	-1.1	0.037675	0.1021641	6.434	0.441	5.993	6.875	7.288	0.412	6.926	7.736
4300	ENSG00000100395	L3MBTL2	1.2	0.0001504	0.0012617	12.890	0.581	12.222	13.280	10.757	0.880	9.753	11.395
4302	ENSG00000154655	L3MBTL4	1.6	0.0004704	0.0031825	1.520	0.151	1.355	1.651	0.940	0.340	0.608	1.288
4304	ENSG00000103642	LACTB	-1.2	0.0001066	0.0009501	10.863	0.345	10.540	11.226	13.881	0.748	13.020	14.369
4306	ENSG00000147592	LACTB2	1.1	0.0171261	0.0558745	31.708	0.829	30.833	32.482	28.439	3.059	24.946	30.642
4307	ENSG00000159166	LAD1	1.2	0.0065112	0.0259544	20.247	1.729	19.081	22.233	17.683	1.375	16.814	19.269
4308	ENSG00000089692	LAG3	-1.5	0.0086445	0.0324035	1.649	0.308	1.305	1.901	2.508	0.222	2.287	2.730
4310	ENSG00000101680	LAMA1	-1.1	0.0004694	0.0031769	24.682	0.643	23.950	25.156	28.116	1.554	26.516	29.620
4313	ENSG00000196569	LAMA2	-1.2	0.0308937	0.0883058	2.377	0.083	2.282	2.430	2.902	0.182	2.692	3.009
4314	ENSG00000112769	LAMA4	-1.4	0.0437744	0.1146595	0.341	0.044	0.296	0.383	0.472	0.013	0.461	0.486
4316	ENSG00000130702	LAMA5	-1.2	1.655E-05	0.0002018	38.985	1.345	37.709	40.390	47.911	4.421	44.667	52.946
4319	ENSG00000091136	LAMB1	-1.2	1.356E-06	2.456E-05	34.007	1.158	33.128	35.320	41.550	0.824	40.599	42.050
4320	ENSG00000135862	LAMC1	1.1	2.003E-05	0.0002382	132.369	2.365	129.817	134.488	120.408	2.954	117.020	122.444
4324	ENSG00000058085	LAMC2	1.2	0.000586	0.0038117	10.736	0.724	10.042	11.486	9.222	0.099	9.131	9.328
4326	ENSG00000050555	LAMC3	1.2	0.001097	0.0063407	6.873	0.548	6.241	7.218	5.814	0.394	5.516	6.261
4327	ENSG00000185896	LAMP1	1.2	1.429E-08	5.068E-07	80.383	0.975	79.649	81.489	67.125	2.105	65.134	69.329
4328	ENSG00000005893	LAMP2	1.1	0.0016701	0.008849	44.076	0.829	43.177	44.809	39.922	2.919	36.647	42.250
4329	ENSG00000149357	LAMTOR1	1.2	2.016E-06	3.409E-05	65.065	0.721	64.356	65.797	54.896	2.554	52.866	57.763
4330	ENSG00000109270	LAMTOR3	1.1	0.0253339	0.0757153	25.287	2.098	22.915	26.902	23.336	1.684	22.233	25.274
4332	ENSG00000188186	LAMTOR4	-1.2	0.000207	0.0016349	70.009	1.240	68.713	71.183	83.260	4.778	77.754	86.313
4334	ENSG00000224699	LAMTOR5-AS1	-1.3	0.0153493	0.0513964	1.180	0.112	1.057	1.278	1.508	0.024	1.482	1.527
4335	ENSG00000115365	LANCL1	1.1	0.0041962	0.0184357	78.860	1.166	78.094	80.201	74.188	0.797	73.692	75.108
4336	ENSG00000002549	LAP3	1.2	7.896E-07	1.564E-05	38.745	1.440	37.558	40.346	31.666	1.889	29.784	33.563
4339	ENSG00000213500	LAP3P2	1.5	0.0680112	0.1603296	1.790	0.495	1.439	2.357	1.189	0.388	0.753	1.495
4340	ENSG00000104341	LAPTM4B	-1.1	0.0365224	0.099952	344.809	7.379	336.299	349.432	371.397	8.804	365.251	381.482
4341	ENSG00000133424	LARGE1	1.1	0.0039853	0.0177142	21.734	0.473	21.414	22.277	19.983	1.543	18.817	21.732
4343	ENSG00000165905	LARGE2	-1.1	0.002437	0.0119021	54.691	2.343	52.375	57.059	62.832	2.504	61.322	65.723
4346	ENSG00000155506	LARP1	1.1	0.0020159	0.0102172	185.176	9.993	173.637	191.074	173.797	4.208	170.090	178.371
4348	ENSG00000161813	LARP4	1.1	0.000905	0.005378	45.742	2.513	43.454	48.432	41.507	0.197	41.288	41.670
4350	ENSG00000107929	LARP4B	-1.1	0.0443136	0.1157724	18.436	0.422	18.036	18.876	20.064	0.425	19.576	20.348
4351	ENSG00000166173	LARP6	1.3	8.988E-05	0.0008284	11.095	0.564	10.481	11.590	8.935	0.468	8.444	9.377
4352	ENSG00000174720	LARP7	-1.2	4.322E-06	6.538E-05	30.414	1.472	28.991	31.930	38.208	1.108	36.990	39.157
4354	ENSG00000133706	LARS	1.1	0.0004864	0.0032776	144.490	1.206	143.489	145.829	134.960	1.267	133.954	136.382
4358	ENSG00000002834	LASP1	1.1	6.358E-05	0.0006249	91.269	1.755	89.494	93.004	82.055	6.239	75.478	87.890
4359	ENSG00000131023	LATS1	-1.1	0.055369	0.1373707	10.876	0.228	10.618	11.052	12.073	0.330	11.871	12.454
4360	ENSG00000150457	LATS2	-1.2	0.0002517	0.0019199	21.544	0.156	21.394	21.705	25.658	1.634	23.777	26.721
4363	ENSG00000213626	LBH	1.1	0.0519049	0.130674	14.242	1.031	13.055	14.921	13.228	0.598	12.795	13.910
4366	ENSG00000143815	LBR	1.1	0.001255	0.0070469	65.603	2.939	62.490	68.332	60.422	1.623	58.758	62.000
4368	ENSG00000157578	LCA5L	1.5	0.0647165	0.1542488	0.473	0.056	0.408	0.506	0.319	0.095	0.214	0.399
4370	ENSG00000213398	LCAT	1.3	0.003416	0.0156402	8.010	0.744	7.151	8.442	6.329	0.592	5.857	6.993

	A	B	C	D	E	F	G	H	I	J	K	L	M
4371	ENSG00000182866	LCK	-1.1	0.1081118	0.2256797	46.964	1.749	45.043	48.463	50.771	2.154	48.732	53.023
4372	ENSG00000136167	LCP1	5.5	4.15E-24	7.81E-21	15.403	1.021	14.791	16.581	2.847	0.505	2.534	3.429
4373	ENSG00000188501	LCTL	1.3	0.0050452	0.021289	7.367	0.398	7.030	7.806	5.953	0.495	5.455	6.445
4377	ENSG00000169744	LDB2	-1.2	1.432E-05	0.0001802	24.504	2.649	22.430	27.488	30.875	1.217	29.803	32.198
4378	ENSG00000122367	LDB3	1.7	0.0070677	0.0277282	0.858	0.081	0.803	0.951	0.518	0.147	0.351	0.628
4379	ENSG00000134333	LDHA	-1.7	7.65E-05	0.0007254	92.526	2.258	90.666	95.038	159.270	27.947	135.135	189.890
4380	ENSG00000235674	LDHAP2	-2	0.0040403	0.017907	1.353	0.220	1.134	1.575	2.723	0.696	1.920	3.153
4381	ENSG00000236090	LDHAP3	-1.9	0.0012342	0.0069511	2.316	0.972	1.330	3.273	4.472	0.327	4.112	4.750
4383	ENSG00000214110	LDHAP4	-1.7	1.997E-09	9.129E-08	26.504	1.689	24.781	28.158	45.984	7.004	39.994	53.686
4384	ENSG00000235847	LDHAP7	-1.9	0.0033839	0.0155142	2.245	0.961	1.198	3.088	4.290	1.054	3.566	5.499
4387	ENSG00000111716	LDHB	-1	0.0402933	0.107591	1130.378	3.053	1127.339	1133.445	1210.941	37.333	1173.383	1248.046
4388	ENSG00000166816	LDHD	1.2	0.0256448	0.0764406	13.190	1.595	11.454	14.589	11.313	1.411	9.692	12.265
4389	ENSG00000130164	LDLR	1.6	4.37E-16	1.09E-13	43.168	2.154	41.703	45.641	27.809	2.291	26.169	30.427
4390	ENSG00000243709	LEFTY1	2.4	0.0480881	0.1232493	0.418	0.239	0.156	0.625	0.166	0.140	0.083	0.329
4392	ENSG00000143768	LEFTY2	2.3	0.0028341	0.0134456	0.826	0.102	0.710	0.903	0.365	0.090	0.279	0.458
4393	ENSG00000186007	LEMD1	1.3	0.03663	0.1002301	6.353	0.730	5.841	7.189	5.180	0.557	4.554	5.619
4394	ENSG00000161904	LEMD2	1.2	2.322E-05	0.0002701	35.704	0.946	35.008	36.781	31.017	1.759	28.987	32.084
4395	ENSG00000174106	LEMD3	1.1	0.1052497	0.2211524	21.599	0.680	20.851	22.179	20.808	0.421	20.494	21.286
4396	ENSG00000167615	LENG8	-1.3	9.369E-09	3.521E-07	52.743	1.463	51.473	54.343	67.973	1.387	66.713	69.460
4398	ENSG00000275183	LENG9	-1.3	0.0584876	0.1428035	2.860	0.350	2.545	3.236	3.823	0.368	3.566	4.245
4403	ENSG00000166477	LEO1	-1.1	0.0021052	0.0105652	35.464	1.524	34.174	37.145	41.554	2.092	39.767	43.855
4404	ENSG00000213625	LEPROT	1.4	1.013E-08	3.79E-07	26.954	1.097	25.831	28.023	20.219	1.311	19.442	21.733
4405	ENSG00000165046	LETM2	-1.3	0.0733969	0.1698402	0.808	0.082	0.749	0.902	1.069	0.131	0.921	1.168
4406	ENSG00000050426	LETMD1	-1.2	0.0001507	0.0012627	17.344	0.929	16.533	18.358	21.139	1.213	19.747	21.968
4410	ENSG00000106003	LFNG	1.1	0.009958	0.0363209	25.395	1.222	24.233	26.669	22.800	0.609	22.118	23.291
4411	ENSG00000100097	LGALS1	1.2	0.0002084	0.0016452	77.542	3.259	74.427	80.927	64.454	1.578	63.475	66.274
4415	ENSG00000131981	LGALS3	1.4	0.0008656	0.0051987	6.945	1.151	6.164	8.267	5.004	0.180	4.804	5.155
4416	ENSG00000108679	LGALS3BP	1.2	0.0006341	0.0040556	39.043	1.183	37.694	39.903	33.612	3.203	31.112	37.223
4418	ENSG00000116977	LGALS8	1.2	7.515E-05	0.0007165	9.193	0.114	9.083	9.312	7.713	0.345	7.476	8.109
4420	ENSG00000119862	LGALSL	-1.1	0.0261358	0.0775499	30.663	0.693	29.986	31.371	34.438	2.968	31.386	37.313
4421	ENSG00000153902	LGI4	-1.3	0.0005176	0.0034519	7.213	0.454	6.711	7.594	9.311	0.305	9.022	9.629
4425	ENSG00000205213	LGR4	-1.2	5.616E-08	1.652E-06	42.622	1.647	41.033	44.322	53.887	2.931	50.856	56.706
4426	ENSG00000183722	LHFP	1.3	0.0044098	0.0191928	6.028	0.869	5.079	6.787	4.587	0.225	4.405	4.839
4427	ENSG00000182508	LHFPL1	1.2	0.0691469	0.1623153	7.280	0.502	6.749	7.747	6.220	0.186	6.103	6.435
4429	ENSG00000145685	LHFPL2	1.1	0.0090717	0.0336321	18.932	0.865	18.266	19.910	17.438	0.682	16.840	18.180
4430	ENSG00000226869	LHFPL3-AS1	1.6	0.0040632	0.0179755	1.815	0.324	1.447	2.058	1.137	0.167	0.953	1.280
4432	ENSG00000156959	LHFPL4	1.2	0.0015112	0.0081399	11.461	0.282	11.193	11.755	9.735	1.279	8.988	11.211
4434	ENSG00000121454	LHX4	-1.7	0.0079321	0.0304209	0.415	0.170	0.293	0.609	0.748	0.165	0.564	0.881
4435	ENSG00000162624	LHX8	1.8	0.0067562	0.0267355	0.906	0.151	0.742	1.040	0.503	0.182	0.294	0.629
4439	ENSG00000105486	LIG1	1.1	0.0019549	0.0099891	33.541	1.900	31.388	34.980	30.618	1.067	29.921	31.846
4440	ENSG00000050405	LIMA1	1.2	0.000133	0.0011409	47.754	1.989	45.904	49.858	42.210	3.413	39.876	46.127
4441	ENSG00000064042	LIMCH1	1.5	1.506E-07	3.894E-06	4.192	0.448	3.684	4.526	2.803	0.220	2.674	3.057

	A	B	C	D	E	F	G	H	I	J	K	L	M
4442	ENSG00000144791	LIMD1	-1.1	0.0409957	0.1089163	9.716	0.471	9.425	10.259	10.733	0.378	10.428	11.156
4443	ENSG00000230530	LIMD1- AS1	-1.9	6.313E-05	0.0006211	2.856	0.321	2.504	3.132	5.442	0.781	4.609	6.157
4445	ENSG00000106683	LIMK1	1.1	0.0168135	0.0551739	38.128	1.093	37.050	39.236	35.827	2.342	33.791	38.386
4447	ENSG00000169756	LIMS1	1.1	0.0221077	0.0681157	18.410	0.702	17.600	18.841	17.193	1.180	16.101	18.444
4448	ENSG00000187772	LIN28B	-1.1	5.687E-05	0.0005691	102.255	3.983	97.659	104.689	118.726	3.615	114.824	121.960
4450	ENSG00000148943	LIN7C	-1.1	0.0635529	0.1522189	19.380	1.247	17.963	20.314	22.393	2.968	19.446	25.382
4452	ENSG00000183814	LIN9	-1.1	0.0286881	0.0833538	12.936	0.707	12.142	13.495	14.870	1.153	13.845	16.118
4457	ENSG00000236871	LINC00106	-1.9	0.0015338	0.0082512	5.331	2.498	3.020	7.981	10.317	0.969	9.444	11.360
4459	ENSG00000175701	LINC00116	1.1	0.0460249	0.1191641	13.210	0.722	12.765	14.044	11.746	0.281	11.438	11.988
4460	ENSG00000196668	LINC00173	-1.5	0.0011207	0.006456	4.016	0.414	3.607	4.436	6.008	0.660	5.576	6.768
4463	ENSG00000188185	LINC00265	-1.2	0.0472164	0.1215763	7.466	0.742	6.709	8.192	8.860	0.878	7.856	9.487
4465	ENSG00000181798	LINC00471	1.4	0.0161035	0.0534353	5.470	0.490	4.952	5.927	3.930	0.258	3.645	4.148
4473	ENSG00000233237	LINC00472	2.2	1.471E-05	0.0001835	2.152	0.239	1.974	2.423	1.009	0.219	0.857	1.260
4475	ENSG00000225511	LINC00475	-1.5	0.0512151	0.1293389	0.639	0.382	0.270	1.033	1.006	0.227	0.765	1.216
4478	ENSG00000250682	LINC00491	-1.4	0.0038349	0.0171495	5.808	1.058	4.816	6.921	8.568	0.963	7.619	9.544
4479	ENSG00000264575	LINC00526	-1.2	0.0791146	0.1799684	7.922	1.356	6.357	8.741	9.550	0.253	9.259	9.702
4480	ENSG00000236094	LINC00545	-1.3	0.010309	0.0373914	33.786	9.190	25.865	43.862	44.656	2.479	41.823	46.425
4481	ENSG00000253230	LINC00599	-1.5	2.882E-08	9.338E-07	35.482	4.791	32.056	40.956	53.094	3.947	49.953	57.524
4483	ENSG00000260941	LINC00622	1.4	0.0949995	0.2059905	2.590	0.450	2.070	2.868	1.875	0.518	1.559	2.473
4484	ENSG00000226067	LINC00623	1.4	0.0015845	0.0084617	7.998	1.048	6.902	8.989	5.987	0.354	5.710	6.386
4486	ENSG00000258441	LINC00641	1.3	3.107E-06	4.925E-05	11.216	0.560	10.858	11.861	8.557	0.512	8.179	9.140
4489	ENSG00000266904	LINC00663	-1.3	0.0358857	0.0986488	2.335	0.279	2.166	2.657	3.027	0.530	2.526	3.581
4491	ENSG00000268658	LINC00664	1.2	0.000753	0.0046325	12.463	0.676	11.771	13.121	10.628	0.647	9.947	11.234
4496	ENSG00000263874	LINC00672	1.7	0.0027466	0.0131523	1.257	0.154	1.080	1.361	0.749	0.029	0.715	0.768

	A	B	C	D	E	F	G	H	I	J	K	L	M
4497	ENSG00000237854	LINC00674	1.7	0.0078565	0.0302061	7.464	2.116	5.837	9.856	4.541	1.386	3.622	6.136
4499	ENSG00000244342	LINC00698	-1.1	0.1046254	0.22032	18.560	0.651	17.965	19.256	20.719	1.454	19.179	22.069
4500	ENSG00000238266	LINC00707	2	1.154E-07	3.088E-06	5.563	0.516	4.999	6.012	2.787	0.505	2.242	3.238
4502	ENSG00000240024	LINC00888	1.2	0.0017592	0.0092137	19.366	1.027	18.317	20.370	16.168	0.884	15.192	16.916
4503	ENSG00000260802	LINC00890	1.3	0.0021689	0.0107966	4.991	0.236	4.728	5.185	3.841	0.269	3.550	4.080
4504	ENSG00000235703	LINC00894	-1.3	0.011935	0.0420358	1.605	0.122	1.506	1.741	2.122	0.122	1.993	2.235
4505	ENSG00000246100	LINC00900	1.5	0.0618482	0.148966	0.725	0.168	0.531	0.837	0.499	0.189	0.385	0.717
4507	ENSG00000264247	LINC00909	1.2	0.1003805	0.2137811	4.327	0.329	4.061	4.695	3.795	0.629	3.345	4.514
4508	ENSG00000226091	LINC00937	1.4	0.0186494	0.0596365	1.248	0.261	0.951	1.444	0.878	0.112	0.796	1.005
4511	ENSG00000235884	LINC00941	3.7	1.077E-09	5.206E-08	4.672	0.885	3.762	5.529	1.283	0.560	0.770	1.881
4513	ENSG00000242516	LINC00960	1.3	0.0161052	0.0534353	3.398	0.864	2.694	4.363	2.595	0.240	2.392	2.859
4514	ENSG00000204054	LINC00963	1.5	0.0013838	0.0075841	0.825	0.094	0.751	0.931	0.580	0.041	0.532	0.606
4517	ENSG00000214194	LINC00998	1.1	0.0350972	0.0971521	79.302	2.903	77.441	82.648	74.340	5.005	70.253	79.923
4518	ENSG00000261455	LINC01003	1.4	0.0709968	0.1655092	2.378	0.246	2.111	2.595	1.715	0.392	1.330	2.113
4525	ENSG00000228393	LINC01004	1.3	0.0514099	0.1296981	8.775	0.951	7.707	9.530	7.077	0.858	6.345	8.020
4526	ENSG00000244041	LINC01011	-1.3	0.0147545	0.0497794	3.550	0.755	2.679	4.028	4.834	0.596	4.451	5.521
4528	ENSG00000250337	LINC01021	-1.2	7.971E-05	0.0007506	130.130	8.712	122.780	139.753	158.615	9.632	149.825	168.911
4529	ENSG00000212694	LINC01089	-1.1	0.0990763	0.2119769	12.157	1.337	11.120	13.665	13.655	0.973	12.642	14.583
4530	ENSG00000215808	LINC01139	1.7	0.0011664	0.0066578	5.138	1.500	3.941	6.820	3.153	0.459	2.627	3.475
4531	ENSG00000256124	LINC01152	1.7	0.0042622	0.0186705	1.266	0.286	0.956	1.520	0.769	0.108	0.657	0.872
4532	ENSG00000232790	LINC01162	1.3	0.1113753	0.2303926	10.940	2.614	7.932	12.665	8.559	0.902	7.643	9.447

	A	B	C	D	E	F	G	H	I	J	K	L	M
4533	ENSG00000245937	LINC01184	1.3	0.0132126	0.0456331	2.756	0.382	2.328	3.063	2.234	0.304	1.922	2.530
4534	ENSG00000248131	LINC01194	-1.3	0.0833825	0.1874084	2.189	0.366	1.911	2.604	2.952	0.364	2.591	3.320
4535	ENSG00000269416	LINC01224	1.1	0.0978063	0.2099236	27.987	1.481	27.101	29.698	26.555	1.435	24.912	27.564
4537	ENSG00000280734	LINC01232	1.4	0.0014581	0.0079014	2.837	0.353	2.429	3.055	2.125	0.185	1.917	2.270
4539	ENSG00000249550	LINC01234	1.3	0.0122935	0.043021	4.407	0.649	3.951	5.150	3.377	1.084	2.456	4.572
4541	ENSG00000237940	LINC01238	-1.5	0.0082587	0.0313323	1.940	0.788	1.139	2.715	3.010	0.461	2.685	3.537
4543	ENSG00000231532	LINC01249	1.8	0.0050848	0.0214246	1.131	0.222	0.962	1.382	0.636	0.056	0.601	0.700
4545	ENSG00000231742	LINC01273	1.4	0.0469686	0.1210946	5.798	0.708	5.288	6.606	4.293	1.006	3.149	5.040
4546	ENSG00000235437	LINC01278	1.3	1.325E-05	0.0001695	12.848	0.106	12.775	12.970	10.367	0.317	10.126	10.726
4547	ENSG00000250889	LINC01336	2.1	0.0045741	0.0197502	3.361	0.637	2.981	4.096	1.614	0.263	1.371	1.894
4548	ENSG00000261326	LINC01355	1.3	0.0192055	0.0610197	2.984	0.366	2.685	3.392	2.407	0.170	2.268	2.596
4551	ENSG00000215866	LINC01356	1.8	2.38E-14	3.94E-12	104.857	6.941	97.737	111.604	60.135	5.221	54.223	64.112
4552	ENSG00000253686	LINC01484	2.3	0.0006699	0.0042306	1.386	0.383	0.944	1.627	0.623	0.025	0.607	0.652
4553	ENSG00000213888	LINC01521	1.5	0.0006867	0.0043081	8.930	0.696	8.128	9.385	6.233	1.689	4.466	7.833
4554	ENSG00000272888	LINC01578	1.1	0.0693292	0.1626078	27.305	1.066	26.163	28.275	26.005	0.683	25.216	26.417
4556	ENSG00000250266	LINC01612	4.1	1.389E-07	3.625E-06	13.905	3.081	11.025	17.154	3.383	1.396	2.334	4.967
4559	ENSG00000233922	LINC01694	-1.2	0.0411426	0.1092377	2.486	0.401	2.144	2.927	3.076	0.414	2.805	3.553
4560	ENSG00000233396	LINC01719	1.2	0.0707508	0.1651178	6.482	0.909	5.821	7.519	5.537	0.866	5.006	6.536
4561	ENSG00000234546	LINC01759	-1.3	0.0185299	0.0593441	5.998	1.077	5.110	7.196	7.966	0.857	7.008	8.657
4564	ENSG00000225285	LINC01770	1.7	0.0005611	0.0036783	9.747	1.213	8.507	10.930	5.752	1.342	4.227	6.752
4565	ENSG00000225675	LINC01771	1.8	0.0080862	0.0308648	5.743	1.693	4.204	7.556	3.159	1.166	2.060	4.382

	A	B	C	D	E	F	G	H	I	J	K	L	M
4568	ENSG00000227403	LINC01806	1.3	0.0524776	0.1318803	2.919	0.163	2.733	3.040	2.224	0.410	1.755	2.515
4570	ENSG00000236714	LINC01844	-1.8	3.244E-05	0.0003562	1.853	0.296	1.598	2.178	3.461	0.225	3.208	3.636
4571	ENSG00000226383	LINC01876	-1.1	0.026496	0.0783164	14.617	0.501	14.089	15.085	17.004	0.888	16.308	18.004
4572	ENSG00000220804	LINC01881	1.5	0.00551	0.0227794	3.981	0.707	3.164	4.394	2.730	0.182	2.560	2.922
4574	ENSG00000263146	LINC01896	-1.2	0.028854	0.0837495	9.354	1.241	8.098	10.580	11.561	0.091	11.466	11.649
4576	ENSG00000249846	LINC02021	1.6	0.0018419	0.0095376	3.573	0.278	3.293	3.849	2.231	0.490	1.665	2.518
4577	ENSG00000220161	LINC02076	-1.3	0.1050717	0.2209471	1.992	0.151	1.831	2.131	2.640	0.114	2.532	2.759
4580	ENSG00000262155	LINC02175	-1.5	0.0139252	0.0475696	1.896	0.278	1.576	2.066	2.865	0.181	2.669	3.026
4581	ENSG00000204650	LINC02210	-1.1	0.0009701	0.0057188	7.955	0.413	7.620	8.416	9.305	0.320	8.947	9.563
4583	ENSG00000259485	LINC02253	-1.2	0.092624	0.202292	9.946	0.427	9.490	10.338	12.342	2.061	10.800	14.682
4585	ENSG00000238042	LINC02257	-1.4	0.0418528	0.1106394	3.014	0.645	2.548	3.750	4.390	0.471	3.851	4.720
4586	ENSG00000261121	LINC02473	-2.3	0.0008807	0.0052689	0.674	0.200	0.475	0.875	1.624	0.126	1.496	1.749
4589	ENSG00000169783	LINGO1	-1.2	0.000204	0.0016189	27.590	2.096	25.240	29.265	34.972	3.728	30.708	37.616
4590	ENSG00000174482	LINGO2	-1.2	0.1079201	0.2254234	3.119	0.576	2.483	3.606	3.839	0.465	3.302	4.124
4591	ENSG00000223784	LINP1	3	0.0060499	0.0245259	1.720	1.184	0.812	3.059	0.570	0.420	0.182	1.016
4593	ENSG00000107798	LIPA	1.4	2.807E-09	1.218E-07	21.969	0.974	20.967	22.913	16.363	0.219	16.111	16.500
4598	ENSG00000213904	LIPE-AS1	-1.4	0.0158695	0.0528036	1.420	0.166	1.263	1.593	2.029	0.224	1.896	2.288
4601	ENSG00000101670	LIPG	1.8	1.05E-11	8.843E-10	5.037	0.517	4.681	5.630	2.913	0.309	2.665	3.258
4605	ENSG00000189067	LITAF	-1.1	0.0171959	0.0560357	67.228	6.123	61.655	73.782	74.817	1.523	73.219	76.252
4607	ENSG00000074695	LMAN1	-1.2	6.543E-07	1.345E-05	91.968	3.415	88.099	94.561	111.439	5.570	105.109	115.590
4609	ENSG00000169223	LMAN2	1.1	0.074767	0.1721158	104.859	6.252	97.970	110.174	100.831	3.576	96.979	104.045
4610	ENSG00000114988	LMAN2L	1.1	0.0594985	0.1447287	22.544	1.304	21.474	23.996	20.921	0.288	20.695	21.246
4612	ENSG00000105983	LMBR1	1.1	0.0053577	0.0222716	15.766	0.214	15.563	15.990	14.659	0.429	14.172	14.979
4613	ENSG00000139636	LMBR1L	-1.2	2.811E-05	0.0003165	15.008	0.189	14.894	15.226	18.753	0.223	18.619	19.010
4615	ENSG00000168216	LMBRD1	1.1	0.0334948	0.0938377	22.487	0.930	21.575	23.434	20.320	1.715	19.037	22.268
4616	ENSG00000071282	LMCD1	1.3	0.0101659	0.0369674	2.343	0.426	1.876	2.709	1.873	0.245	1.609	2.092
4618	ENSG00000185621	LMLN	1.2	0.0108522	0.0389525	3.181	0.125	3.108	3.325	2.682	0.403	2.285	3.091
4619	ENSG00000160789	LMNA	1.6	5.11E-14	7.65E-12	26.155	1.657	24.358	27.623	16.682	1.274	15.563	18.069
4620	ENSG00000113368	LMNB1	1.1	5.524E-05	0.0005555	180.044	4.484	175.395	184.343	163.977	2.454	161.866	166.670
4621	ENSG00000176619	LMNB2	-1.1	0.0220796	0.0680575	132.642	0.306	132.291	132.858	144.197	6.710	137.345	150.756
4622	ENSG00000135363	LMO2	-1.6	0.0045825	0.0197716	1.430	0.375	0.998	1.677	2.305	0.227	2.148	2.566

	A	B	C	D	E	F	G	H	I	J	K	L	M
4629	ENSG00000048540	LMO3	-2	2.169E-07	5.279E-06	0.678	0.187	0.547	0.892	1.410	0.115	1.317	1.538
4630	ENSG00000136153	LMO7	1.1	0.0591442	0.1440858	5.498	0.626	4.895	6.145	5.085	0.394	4.659	5.436
4634	ENSG00000142235	LMTK3	-1.2	0.0347237	0.0963765	5.041	0.264	4.836	5.338	6.061	0.890	5.535	7.088
4635	ENSG00000232301	LNCPRESS 1	1.4	1.191E-09	5.643E-08	217.270	7.259	208.894	221.760	162.381	10.007	154.123	173.509
4637	ENSG00000206535	LNP1	1.1	0.0630582	0.1514179	15.653	0.525	15.175	16.215	14.148	0.367	13.769	14.501
4640	ENSG00000113441	LNPEP	1.2	0.0035767	0.0162353	3.609	0.201	3.377	3.736	3.120	0.058	3.072	3.184
4644	ENSG00000072201	LN1	1.2	0.0408969	0.1087049	2.603	0.352	2.238	2.940	2.146	0.475	1.612	2.523
4645	ENSG00000196365	LONP1	1.1	0.0056138	0.0231744	64.470	1.690	63.280	66.404	60.117	2.636	57.171	62.252
4646	ENSG00000154359	LONRF1	1.4	4.20E-14	6.52E-12	56.990	1.001	56.071	58.056	40.692	2.047	38.354	42.155
4648	ENSG00000170500	LONRF2	3.7	6.95E-19	3.79E-16	4.976	0.733	4.228	5.694	1.371	0.231	1.179	1.627
4649	ENSG00000171517	LPAR3	-1.2	0.0010642	0.006191	11.662	0.952	11.059	12.760	14.742	1.724	13.018	16.465
4653	ENSG00000139679	LPAR6	1.5	0.0329996	0.0928812	1.373	0.389	0.959	1.732	0.956	0.209	0.719	1.113
4654	ENSG00000153395	LPCAT1	-1	0.095203	0.2061608	114.294	1.710	112.996	116.231	122.084	3.184	118.445	124.354
4656	ENSG00000087253	LPCAT2	1.2	0.103944	0.219312	2.827	0.406	2.483	3.275	2.487	0.359	2.213	2.894
4657	ENSG00000111684	LPCAT3	1.1	0.0034551	0.0157852	22.047	1.402	20.856	23.592	19.651	1.320	18.755	21.167
4658	ENSG00000176454	LPCAT4	-1.1	0.0026661	0.0128393	21.753	1.240	20.367	22.756	25.438	1.464	24.412	27.115
4661	ENSG00000123684	LPGAT1	1.2	0.0001173	0.010291	13.354	0.714	12.811	14.163	11.477	0.526	10.869	11.797
4662	ENSG00000134324	LPIN1	1.2	0.0001283	0.0011088	8.596	0.101	8.479	8.657	7.407	0.179	7.226	7.584
4666	ENSG00000101577	LPIN2	1.2	2.489E-06	4.103E-05	20.245	0.557	19.836	20.880	16.658	0.168	16.468	16.786
4669	ENSG00000175445	LPL	1.4	3.155E-06	4.985E-05	9.308	0.604	8.631	9.792	6.780	0.729	5.989	7.427
4672	ENSG00000145012	LPP	1.2	1.691E-06	2.933E-05	13.916	0.911	12.933	14.731	11.441	1.042	10.322	12.384
4674	ENSG00000121207	LRAT	1.4	9.515E-07	1.829E-05	7.846	0.773	7.231	8.714	5.596	0.796	4.695	6.202
4676	ENSG00000198589	LRBA	-1	0.1220521	0.2460976	45.329	1.101	44.100	46.225	48.173	1.138	47.144	49.395
4678	ENSG00000186001	LRCH3	1.2	0.0003326	0.0023954	10.426	0.207	10.302	10.665	9.247	0.157	9.071	9.375
4681	ENSG00000156564	LRFN2	-1.6	0.004885	0.0207786	0.846	0.262	0.633	1.139	1.426	0.131	1.276	1.520
4682	ENSG00000126243	LRFN3	-1.4	0.0004151	0.0028728	4.772	0.476	4.274	5.221	6.597	1.011	5.530	7.541
4685	ENSG00000173621	LRFN4	-1.1	0.0552277	0.1371006	35.530	1.705	33.644	36.963	39.593	3.721	36.738	43.801
4688	ENSG00000121931	LRIF1	1.2	2.498E-05	0.0002872	29.182	0.965	28.134	30.036	23.955	1.779	22.002	25.483
4689	ENSG00000144749	LRIG1	-1.5	1.48E-17	5.56E-15	50.590	0.665	49.971	51.293	79.625	4.303	75.861	84.316
4690	ENSG00000198799	LRIG2	-1.2	0.0001694	0.0013939	12.667	0.755	11.889	13.396	15.016	0.483	14.502	15.460
4692	ENSG00000139263	LRIG3	1.3	0.0003094	0.0022661	6.041	0.207	5.866	6.270	4.845	0.364	4.427	5.096
4697	ENSG00000123384	LRP1	1.1	0.081362	0.1837217	44.975	2.476	42.163	46.827	43.225	3.611	39.922	47.080
4699	ENSG00000120256	LRP11	1.1	0.0494566	0.1259918	32.347	2.687	30.063	35.308	30.392	1.532	29.382	32.156
4700	ENSG00000147650	LRP12	1.1	0.0371734	0.1011363	5.566	0.535	4.968	5.999	5.072	0.105	4.988	5.189
4702	ENSG00000081479	LRP2	-1.5	6.593E-05	0.0006438	0.923	0.106	0.852	1.045	1.444	0.228	1.273	1.702
4703	ENSG00000109771	LRP2BP	-2.1	0.0229519	0.0702217	0.114	0.081	0.020	0.162	0.245	0.027	0.227	0.276
4705	ENSG00000134569	LRP4	1.1	0.0331192	0.0931092	10.222	0.562	9.895	10.871	9.438	0.716	8.870	10.242
4706	ENSG00000247675	LRP4-AS1	-2.4	0.0001132	0.0009983	1.224	0.195	1.007	1.385	3.013	0.957	1.924	3.722
4713	ENSG00000162337	LRP5	1.1	0.0342378	0.0953913	22.799	1.050	21.677	23.759	21.245	2.123	19.277	23.495
4718	ENSG00000070018	LRP6	-1.1	0.0247902	0.0745117	36.391	0.178	36.205	36.560	39.631	0.966	38.612	40.534
4720	ENSG00000157193	LRP8	1.4	3.49E-13	4.19E-11	35.074	0.281	34.788	35.351	25.997	0.881	25.103	26.864

	A	B	C	D	E	F	G	H	I	J	K	L	M
4721	ENSG00000163956	LRPAP1	1.3	1.17E-08	4.277E-07	23.772	0.698	23.118	24.506	18.816	1.405	17.293	20.062
4722	ENSG00000137269	LRRC1	1.1	0.0753488	0.1730075	13.914	0.573	13.305	14.442	13.062	0.879	12.495	14.075
4726	ENSG00000160959	LRRC14	-1.1	0.0496095	0.1263053	10.443	0.735	10.004	11.292	11.850	0.973	11.263	12.974
4727	ENSG00000163827	LRRC2	-1.5	3.697E-07	8.347E-06	3.380	0.318	3.021	3.624	5.359	0.428	4.972	5.818
4728	ENSG00000148814	LRRC27	-1.2	0.1210423	0.2444579	0.777	0.071	0.707	0.849	0.952	0.100	0.876	1.066
4729	ENSG00000168904	LRRC28	1.2	0.0085938	0.0322584	4.108	0.197	3.949	4.328	3.549	0.082	3.481	3.641
4731	ENSG00000214425	LRRC37A4 P	1.1	0.0417993	0.1105475	7.129	0.668	6.682	7.897	6.492	0.238	6.227	6.688
4732	ENSG00000185158	LRRC37B	-1.1	0.0681663	0.1605929	6.998	0.236	6.742	7.209	7.978	0.257	7.682	8.130
4738	ENSG00000122477	LRRC39	-2.7	0.000354	0.0025273	0.669	0.266	0.374	0.890	1.858	0.642	1.482	2.598
4739	ENSG00000128594	LRRC4	1.5	4.331E-05	0.000455	6.119	0.768	5.304	6.829	4.151	0.394	3.804	4.579
4740	ENSG00000066557	LRRC40	-1.1	0.0145279	0.0492405	69.215	0.623	68.645	69.880	77.137	1.352	76.356	78.698
4742	ENSG00000116212	LRRC42	-1.1	0.001123	0.0064624	52.461	1.758	50.609	54.108	61.011	3.384	57.175	63.572
4755	ENSG00000137821	LRRC49	1.2	0.0063507	0.0254585	3.227	0.022	3.209	3.251	2.729	0.221	2.589	2.984
4757	ENSG00000131409	LRRC4B	-1.2	0.0975447	0.2094951	2.452	0.526	1.892	2.935	3.094	0.589	2.637	3.758
4760	ENSG00000183908	LRRC55	1.3	0.0554402	0.1374667	1.461	0.261	1.310	1.762	1.167	0.075	1.080	1.214
4761	ENSG00000180979	LRRC57	1.1	0.0798747	0.1810642	4.823	0.525	4.222	5.187	4.387	0.429	3.894	4.669
4763	ENSG00000108829	LRRC59	-1.1	0.1106472	0.2294196	67.932	1.538	66.166	68.967	72.967	3.796	68.593	75.410
4765	ENSG00000175061	LRRC75A- AS1	1.1	0.0004135	0.0028664	427.865	13.434	412.376	436.333	395.299	14.213	380.700	409.092
4766	ENSG00000178026	LRRC75B	-1.2	0.0058398	0.0239043	7.804	0.797	7.271	8.721	9.812	0.901	8.940	10.740
4767	ENSG00000136802	LRRC8A	1.6	1.71E-17	6.27E-15	80.893	2.230	79.327	83.446	52.030	1.067	51.342	53.259
4769	ENSG00000197147	LRRC8B	1.2	7.178E-05	0.0006898	20.343	0.121	20.237	20.476	17.749	1.053	16.829	18.897
4770	ENSG00000171492	LRRC8D	1.4	6.47E-11	4.397E-09	43.943	2.824	41.034	46.673	32.465	0.592	31.976	33.123
4772	ENSG00000171017	LRRC8E	-1.2	0.0669659	0.1584713	1.950	0.116	1.858	2.080	2.443	0.440	1.966	2.834
4776	ENSG00000133739	LRRC1	1.3	7.55E-05	0.0007184	15.084	1.084	14.205	16.296	11.928	1.077	10.900	13.048
4779	ENSG00000175928	LRRN1	-1.2	4.468E-06	6.735E-05	165.186	5.557	160.236	171.197	196.893	2.711	194.998	199.998
4780	ENSG00000176204	LRRTM4	1.2	0.0565112	0.1393257	3.424	0.647	2.797	4.090	2.925	0.350	2.587	3.287
4781	ENSG00000161036	LRWD1	-1.1	0.0784578	0.1787389	12.282	0.248	12.009	12.495	13.664	1.451	12.474	15.281
4782	ENSG00000175324	LSM1	-1.1	0.0783736	0.1785952	45.508	2.701	42.492	47.701	50.604	2.853	47.509	53.127
4783	ENSG00000181817	LSM10	1.1	0.0067306	0.026653	44.492	2.012	42.169	45.695	39.607	2.141	37.741	41.945
4787	ENSG00000155858	LSM11	-1.2	0.0006268	0.004023	7.387	0.069	7.310	7.445	9.210	0.788	8.670	10.114
4788	ENSG00000232024	LSM12P1	-1.1	0.0751974	0.1728008	153.808	6.243	147.017	159.298	169.708	4.697	165.468	174.757
4789	ENSG00000149657	LSM14B	-1.1	0.0011236	0.0064635	65.306	0.794	64.455	66.026	74.360	0.508	73.952	74.929
4791	ENSG00000130520	LSM4	-1.1	0.0033277	0.0153021	142.093	3.676	137.936	144.915	158.872	5.380	155.453	165.073
4793	ENSG00000130332	LSM7	-1.1	0.0007962	0.0048526	95.896	1.558	94.665	97.647	110.338	1.712	108.380	111.553
4794	ENSG00000160285	LSS	1.7	5.84E-18	2.35E-15	45.321	1.085	44.149	46.290	28.017	1.912	25.948	29.718
4795	ENSG00000119681	LTBP2	1.4	0.016677	0.0548113	0.695	0.082	0.617	0.780	0.489	0.073	0.422	0.568
4796	ENSG00000090006	LTBP4	-1.1	0.003559	0.0161636	20.762	0.936	19.812	21.683	24.402	1.792	23.234	26.465
4797	ENSG00000135521	LTV1	-1.1	0.0263393	0.0779897	52.120	2.869	49.769	55.317	58.606	3.026	56.503	62.074
4800	ENSG00000007392	LUC7L	-1.4	2.09E-12	2.14E-10	32.797	1.700	31.014	34.401	47.123	1.898	45.991	49.315
4805	ENSG00000146963	LUC7L2	-1.1	0.0341939	0.0953695	13.571	0.195	13.348	13.707	15.325	0.715	14.728	16.118

	A	B	C	D	E	F	G	H	I	J	K	L	M
4806	ENSG00000108848	LUC7L3	-1.2	1.761E-05	0.0002132	113.884	2.865	110.655	116.121	134.075	1.576	132.472	135.622
4807	ENSG00000171357	LURAP1	-1.2	0.0841277	0.1885978	6.605	0.345	6.212	6.853	7.899	0.401	7.471	8.267
4809	ENSG00000169641	LUZP1	-1.1	0.0006896	0.0043212	28.315	0.550	27.752	28.850	32.289	1.446	31.086	33.893
4810	ENSG00000187398	LUZP2	1.9	8.189E-07	1.612E-05	1.701	0.167	1.535	1.869	0.918	0.095	0.842	1.025
4811	ENSG00000160932	LY6E	-1.2	0.0005119	0.0034235	62.713	2.210	60.176	64.222	74.371	5.148	69.002	79.266
4812	ENSG00000145220	LYAR	-1.1	0.0097681	0.035767	47.954	1.177	46.739	49.088	54.285	1.813	52.436	56.061
4813	ENSG00000254087	LYN	1.2	0.0011874	0.0067475	19.696	1.710	17.724	20.764	17.416	0.343	17.069	17.755
4814	ENSG00000180155	LYNX1	1.2	0.0168992	0.0553799	9.853	1.110	8.585	10.649	8.510	1.523	7.205	10.184
4815	ENSG00000150551	LYPD1	1.4	0.0079169	0.0304018	5.693	1.173	4.346	6.486	4.186	0.984	3.219	5.187
4816	ENSG00000187123	LYPD6	-1.2	0.0007607	0.0046684	7.200	0.398	6.840	7.627	9.086	0.453	8.578	9.450
4819	ENSG00000120992	LYPLA1	1.4	3.874E-10	2.134E-08	145.807	1.034	145.170	147.000	109.585	6.176	104.757	116.544
4820	ENSG00000218350	LYPLA1P3	1.3	3.491E-05	0.0003785	80.962	4.774	75.677	84.960	64.674	1.510	63.275	66.275
4821	ENSG00000163155	LYSMD1	-1.3	0.0029358	0.0138231	6.888	0.782	6.000	7.476	9.042	0.752	8.359	9.848
4823	ENSG00000140280	LYSMD2	1.6	0.0032447	0.014998	3.264	0.802	2.634	4.166	2.042	0.376	1.770	2.471
4825	ENSG00000176018	LYSMD3	-1.1	0.0141855	0.0483028	18.742	1.364	17.341	20.066	21.576	0.537	21.220	22.194
4826	ENSG00000183060	LYSMD4	1.2	0.0012197	0.0068853	8.823	0.346	8.428	9.075	7.530	0.154	7.353	7.632
4830	ENSG00000163818	LZTFL1	1.2	0.0008857	0.0052934	7.585	0.655	6.828	7.965	6.332	0.408	6.016	6.793
4831	ENSG00000099949	LZTR1	-1.1	0.1037401	0.219014	11.546	0.248	11.372	11.829	12.716	0.760	11.839	13.186
4832	ENSG00000061337	LZTS1	1.2	0.002154	0.0107432	5.530	0.186	5.408	5.744	4.546	0.422	4.083	4.906
4834	ENSG00000088899	LZTS3	-1.3	1.618E-08	5.654E-07	20.647	0.735	19.799	21.073	28.232	0.557	27.871	28.874
4835	ENSG00000003056	M6PR	1.2	2.211E-06	3.68E-05	78.547	2.572	75.813	80.917	67.610	2.870	65.315	70.829
4836	ENSG00000183833	MAATS1	-1.2	0.0793676	0.1802433	2.100	0.416	1.683	2.516	2.549	0.065	2.491	2.619
4842	ENSG00000127603	MACF1	1.1	0.0889902	0.1964101	34.341	2.357	32.430	36.975	33.364	1.897	31.300	35.030
4845	ENSG00000133315	MACROD1	-1.2	0.0188936	0.0603148	21.109	1.017	20.156	22.180	25.494	3.227	22.749	29.049
4846	ENSG00000002822	MAD1L1	-1.1	0.0743017	0.1712544	7.663	0.814	6.743	8.291	8.690	0.770	8.227	9.579
4847	ENSG00000164109	MAD2L1	-1.1	0.024298	0.0733799	69.611	3.114	66.743	72.923	76.231	2.183	73.894	78.217
4849	ENSG00000116670	MAD2L2	-1.2	3.744E-06	5.777E-05	96.016	2.488	93.322	98.226	115.227	5.832	108.719	119.981
4850	ENSG00000099866	MADCAM1	-1.4	0.036335	0.0996166	1.397	0.143	1.293	1.559	2.035	0.446	1.640	2.518
4852	ENSG00000110514	MADD	-1.2	1.36E-05	0.0001731	20.867	1.335	19.849	22.378	25.558	1.565	23.761	26.621
4854	ENSG00000178573	MAF	-1.3	0.000462	0.0031369	3.100	0.311	2.751	3.346	4.195	0.380	3.828	4.586
4856	ENSG00000179632	MAF1	-1.1	0.0324335	0.091693	83.275	0.830	82.363	83.988	91.717	6.700	84.602	97.906
4859	ENSG00000204103	MAFB	-1.9	6.497E-08	1.866E-06	2.851	0.490	2.371	3.351	5.704	0.819	5.117	6.640
4861	ENSG00000185022	MAFF	2.1	2.86E-13	3.48E-11	6.832	0.267	6.547	7.078	3.315	0.196	3.098	3.477
4866	ENSG00000197063	MAFG	1.2	6.117E-06	8.782E-05	25.409	0.909	24.360	25.951	20.841	2.137	18.981	23.175
4869	ENSG00000147381	MAGEA4	1.4	0.0737753	0.1704359	1.667	0.389	1.246	2.014	1.247	0.464	0.711	1.517
4871	ENSG00000179222	MAGED1	-1.2	4.319E-05	0.000454	58.913	4.105	54.508	62.630	69.694	2.903	66.466	72.090
4875	ENSG00000154545	MAGED4	-1.1	0.005969	0.0242969	25.560	1.482	23.883	26.692	29.411	0.899	28.526	30.324
4876	ENSG00000187243	MAGED4B	-1.1	0.0020426	0.0103215	24.644	1.528	22.954	25.927	28.753	0.770	27.916	29.431
4878	ENSG00000198934	MAGEE1	1.1	0.0331784	0.0932446	12.950	0.614	12.243	13.349	11.721	0.859	11.126	12.706
4881	ENSG00000177383	MAGEF1	-1.1	0.0002141	0.0016809	96.180	1.013	95.572	97.349	112.630	2.868	109.651	115.372

	A	B	C	D	E	F	G	H	I	J	K	L	M
4882	ENSG00000254585	MAGEL2	-1.3	0.0023744	0.0116635	4.618	0.143	4.466	4.749	5.925	0.317	5.591	6.222
4883	ENSG00000234456	MAGI2-AS3	1.6	0.0004885	0.0032904	0.964	0.082	0.871	1.029	0.628	0.113	0.498	0.703
4884	ENSG00000111196	MAGOHB	1.2	0.0007777	0.0047535	19.997	0.772	19.237	20.780	17.273	1.444	15.621	18.293
4885	ENSG00000102158	MAGT1	1.1	0.0014301	0.0077849	40.658	0.916	39.774	41.603	36.990	2.193	35.526	39.512
4887	ENSG00000162972	MAIP1	-1.2	0.0071345	0.0279383	32.324	1.906	30.658	34.402	38.361	2.961	34.959	40.355
4889	ENSG00000147676	MAL2	1.2	5.625E-09	2.281E-07	136.295	2.602	133.478	138.608	112.733	1.974	110.521	114.313
4891	ENSG00000144063	MALL	1.5	2.567E-05	0.0002933	5.900	0.648	5.268	6.562	3.920	0.346	3.531	4.189
4892	ENSG00000156928	MALSU1	-1.1	0.0174235	0.056616	20.192	0.406	19.847	20.640	23.112	1.381	21.898	24.615
4896	ENSG00000172175	MALT1	1.2	0.0007184	0.0044587	9.427	0.601	8.980	10.111	8.231	0.381	7.844	8.606
4898	ENSG00000177943	MAMDC4	-1.4	0.000479	0.0032317	2.771	0.267	2.588	3.078	3.864	0.221	3.720	4.118
4899	ENSG00000184384	MAML2	1.8	5.039E-07	1.09E-05	2.284	0.352	1.886	2.555	1.276	0.218	1.122	1.526
4900	ENSG00000176909	MAMSTR	-1.5	0.0711359	0.1657876	1.024	0.356	0.658	1.370	1.518	0.354	1.253	1.920
4902	ENSG00000111885	MAN1A1	1.3	0.0001529	0.0012769	8.251	0.304	7.934	8.539	6.561	0.519	6.207	7.156
4903	ENSG00000177239	MAN1B1	-1.1	0.0340333	0.0950314	11.047	0.252	10.802	11.305	12.373	1.060	11.498	13.552
4907	ENSG00000117643	MAN1C1	1.2	0.035042	0.0970468	4.252	0.474	3.730	4.655	3.726	0.210	3.495	3.906
4908	ENSG00000196547	MAN2A2	1.1	0.0083373	0.0315525	9.656	0.339	9.285	9.950	8.735	0.483	8.193	9.116
4911	ENSG00000104774	MAN2B1	-1.1	0.0467863	0.1206967	21.710	0.046	21.677	21.763	23.985	1.283	23.198	25.465
4912	ENSG0000013288	MAN2B2	1.3	0.0034431	0.0157342	3.796	0.324	3.586	4.169	2.955	0.640	2.279	3.551
4913	ENSG00000140400	MAN2C1	-1.2	4.223E-05	0.0004455	11.905	0.305	11.571	12.169	14.773	1.035	13.582	15.459
4915	ENSG00000109323	MANBA	1.2	2.925E-06	4.676E-05	16.707	0.289	16.387	16.951	14.039	0.047	13.985	14.070
4916	ENSG00000101363	MANBAL	-1.1	0.0257744	0.0767441	48.358	0.652	47.719	49.022	54.441	3.154	50.858	56.799
4918	ENSG00000172469	MANEA	1.2	0.0051738	0.0216808	9.994	0.331	9.737	10.368	8.681	0.500	8.111	9.041
4919	ENSG00000185090	MANEAL	2.3	3.66E-12	3.436E-10	10.081	1.380	8.561	11.255	4.423	0.213	4.220	4.645
4924	ENSG00000111261	MANSC1	1.2	0.0380109	0.102877	4.671	0.135	4.516	4.765	4.082	0.482	3.614	4.578
4925	ENSG00000189221	MAOA	1.2	0.0234348	0.0714021	5.536	0.667	4.824	6.147	4.657	0.275	4.470	4.973
4927	ENSG00000212916	MAP10	1.2	0.0623498	0.1500246	4.285	0.620	3.611	4.831	3.620	0.360	3.381	4.035
4928	ENSG00000166963	MAP1A	1.2	0.1093595	0.2275027	1.050	0.091	0.958	1.140	0.885	0.158	0.707	1.008
4932	ENSG00000131711	MAP1B	1.5	3.50E-16	8.82E-14	39.412	1.515	37.783	40.778	26.995	0.987	25.871	27.722
4934	ENSG00000140941	MAP1LC3B	1.2	2.671E-06	4.352E-05	38.815	0.799	38.136	39.695	33.254	0.344	32.861	33.505
4936	ENSG00000258102	MAP1LC3B2	1.2	0.0154702	0.0516834	19.661	1.520	18.438	21.362	17.163	0.467	16.744	17.666
4937	ENSG00000197769	MAP1LC3C	-3.7	4.48E-09	1.853E-07	1.836	0.749	1.134	2.625	7.054	0.694	6.438	7.807
4938	ENSG00000078018	MAP2	-1.3	0.0006546	0.0041617	2.640	0.140	2.478	2.722	3.442	0.158	3.274	3.587
4940	ENSG00000169032	MAP2K1	-1.1	0.0008033	0.0048837	61.204	3.876	57.826	65.437	70.831	5.455	65.396	76.306
4944	ENSG00000126934	MAP2K2	-1.1	0.0826943	0.1861639	34.831	0.813	34.330	35.769	38.064	2.572	35.369	40.494
4945	ENSG00000065559	MAP2K4	1.2	0.0004392	0.0030077	27.331	1.375	25.748	28.234	24.255	0.886	23.605	25.264
4947	ENSG00000108984	MAP2K6	-1.2	0.0004608	0.0031319	9.044	0.395	8.780	9.497	11.116	0.305	10.903	11.465
4951	ENSG00000076984	MAP2K7	-1.1	0.0056572	0.0233082	17.102	0.354	16.798	17.490	19.767	1.259	18.975	21.218
4952	ENSG00000095015	MAP3K1	1.2	1.153E-05	0.0001503	13.459	0.695	12.763	14.153	11.091	0.284	10.828	11.391

	A	B	C	D	E	F	G	H	I	J	K	L	M
4953	ENSG00000130758	MAP3K10	-1.2	0.0060867	0.0246337	7.149	0.720	6.374	7.798	8.907	0.709	8.435	9.722
4954	ENSG00000173327	MAP3K11	-1.1	0.0882493	0.1951825	8.731	0.082	8.651	8.814	9.758	1.429	8.247	11.089
4956	ENSG00000139625	MAP3K12	-1.2	0.0013542	0.0074579	5.995	0.851	5.375	6.965	7.513	0.603	6.972	8.162
4959	ENSG00000006062	MAP3K14	1.8	1.90E-11	1.51E-09	7.981	0.245	7.739	8.230	4.541	0.452	4.192	5.051
4961	ENSG000000091436	MAP3K20	1.1	0.0015666	0.0083824	9.463	0.757	9.004	10.336	8.463	0.223	8.266	8.705
4962	ENSG00000197442	MAP3K5	1.6	9.724E-05	0.0008828	2.346	0.385	1.922	2.673	1.470	0.312	1.259	1.829
4963	ENSG00000142733	MAP3K6	-1.1	0.1071794	0.2242638	4.736	0.423	4.273	5.103	5.429	0.448	4.955	5.844
4964	ENSG00000006432	MAP3K9	-1.1	0.0801922	0.1816137	9.703	0.447	9.191	10.008	10.590	0.555	10.200	11.225
4966	ENSG00000011566	MAP4K3	-1.1	0.0217291	0.067296	35.438	2.219	33.946	37.988	39.494	1.250	38.652	40.931
4968	ENSG00000071054	MAP4K4	1.1	0.0004308	0.0029654	72.299	0.267	71.995	72.495	67.244	0.986	66.107	67.866
4970	ENSG00000171533	MAP6	-1.8	0.0028166	0.0134027	0.622	0.242	0.367	0.849	1.113	0.148	0.997	1.279
4971	ENSG00000135525	MAP7	-1.1	0.0179137	0.0578525	45.343	0.954	44.590	46.416	50.023	2.050	47.692	51.548
4975	ENSG00000184368	MAP7D2	2.1	8.047E-07	1.588E-05	2.958	0.623	2.564	3.677	1.467	0.117	1.373	1.597
4976	ENSG00000164114	MAP9	1.1	0.0648124	0.1544339	9.666	0.431	9.241	10.102	9.026	0.255	8.750	9.252
4977	ENSG00000156711	MAPK13	1.1	0.0858834	0.1914267	13.468	0.613	12.760	13.836	12.780	0.510	12.429	13.365
4979	ENSG00000181085	MAPK15	-1.4	0.0064418	0.0257506	2.698	0.260	2.514	2.995	3.772	0.089	3.685	3.862
4981	ENSG00000168175	MAPK1IP1L	1.1	0.0394886	0.105888	36.537	1.814	34.587	38.174	34.900	0.869	34.064	35.799
4983	ENSG00000102882	MAPK3	1.2	0.000422	0.0029157	25.405	1.060	24.648	26.617	21.838	0.533	21.378	22.422
4984	ENSG00000141639	MAPK4	1.3	0.0290614	0.0841925	2.001	0.262	1.709	2.215	1.626	0.116	1.537	1.757
4985	ENSG00000166484	MAPK7	-1.2	0.0028231	0.0134198	6.670	0.658	6.194	7.421	8.373	0.537	7.771	8.800
4986	ENSG00000121653	MAPK8IP1	-1.1	0.0414192	0.1098	25.146	1.830	23.116	26.670	28.312	2.258	26.172	30.672
4988	ENSG00000138834	MAPK8IP3	-1.1	0.0035818	0.0162452	16.481	0.351	16.107	16.803	18.769	0.914	18.011	19.784
4989	ENSG00000114738	MAPKAPK3	1.1	0.014342	0.0487374	45.790	2.070	43.430	47.295	42.949	1.080	41.839	43.996
4990	ENSG00000089022	MAPKAPK5	1.1	0.0100788	0.0366822	14.443	0.300	14.116	14.704	13.516	0.425	13.178	13.993
4992	ENSG00000234608	MAPKAPK5-AS1	-1.1	0.1003371	0.2137282	46.464	1.250	45.132	47.612	51.180	5.455	45.281	56.042
4994	ENSG00000137802	MAPKBP1	-1.2	0.0045214	0.0195677	3.195	0.301	2.851	3.409	3.953	0.383	3.569	4.335
4995	ENSG00000084764	MAPRE3	-1.2	0.117239	0.2389567	2.569	0.365	2.326	2.988	3.201	0.535	2.847	3.816
4998	ENSG00000186868	MAPT	-1.3	0.1177147	0.2396088	0.371	0.090	0.277	0.455	0.482	0.100	0.367	0.548
4999	ENSG00000117791	MARC2	1.1	0.0846637	0.189382	14.238	0.511	13.768	14.782	13.089	0.406	12.707	13.515
5000	ENSG00000144583	MARCH4	-1.2	0.0404778	0.1079983	3.197	0.226	3.023	3.453	3.917	0.162	3.763	4.086
5002	ENSG00000198060	MARCH5	-1.2	0.0015027	0.0081018	19.909	1.175	18.977	21.229	23.537	1.744	21.525	24.608
5003	ENSG00000136536	MARCH7	-1.1	0.0013952	0.0076364	66.310	0.860	65.435	67.154	75.286	3.929	72.504	79.781
5004	ENSG00000277443	MARCKS	-1.1	0.0001381	0.0011736	137.518	2.275	134.935	139.227	157.246	6.073	152.755	164.155
5005	ENSG00000166783	MARF1	-1.1	0.0149969	0.0504359	10.415	0.346	10.074	10.766	11.710	0.634	11.249	12.433
5007	ENSG00000116141	MARK1	1.1	0.0909355	0.199921	17.783	0.242	17.564	18.042	16.873	0.810	15.969	17.530

	A	B	C	D	E	F	G	H	I	J	K	L	M
5012	ENSG00000072518	MARK2	-1.1	0.0017666	0.0092288	19.248	0.786	18.354	19.830	22.497	1.596	20.769	23.915
5013	ENSG00000007047	MARK4	-1.3	9.543E-08	2.624E-06	15.727	0.128	15.610	15.864	21.343	1.863	20.053	23.479
5017	ENSG00000166986	MARS	1.4	1.74E-15	3.58E-13	125.003	3.587	121.154	128.253	91.030	2.636	88.279	93.532
5020	ENSG00000247626	MARS2	-1.3	4.885E-06	7.285E-05	16.728	0.641	15.989	17.128	22.319	1.129	21.091	23.312
5021	ENSG00000155254	MARVELD1	1.1	0.0348258	0.0965746	37.318	0.301	37.125	37.665	34.936	2.506	32.251	37.214
5023	ENSG00000140832	MARVELD3	1.2	0.0106523	0.038357	13.427	0.627	12.895	14.118	11.892	0.347	11.525	12.215
5026	ENSG00000105613	MAST1	-1.3	0.0005588	0.0036661	3.938	0.296	3.618	4.204	5.276	0.745	4.612	6.081
5027	ENSG00000099308	MAST3	-1.2	0.0297007	0.0855901	3.267	0.235	3.009	3.469	3.973	0.699	3.417	4.758
5030	ENSG00000069020	MAST4	-1.2	0.0134125	0.0461913	1.655	0.119	1.543	1.781	2.008	0.100	1.905	2.104
5032	ENSG00000120539	MASTL	1.1	0.0355659	0.0980324	45.611	1.296	44.472	47.022	43.409	1.412	41.915	44.721
5033	ENSG00000151224	MAT1A	1.8	3.91E-12	3.595E-10	15.027	0.828	14.164	15.815	8.628	0.406	8.186	8.986
5038	ENSG00000038274	MAT2B	1.1	0.060721	0.1470258	52.022	2.841	50.250	55.299	49.873	1.576	48.853	51.689
5040	ENSG00000132561	MATN2	1.2	0.0078078	0.0300533	5.734	0.675	4.962	6.210	4.926	0.411	4.525	5.346
5042	ENSG00000132031	MATN3	1.4	0.0015505	0.0083168	8.138	1.479	6.866	9.761	6.073	0.361	5.674	6.375
5043	ENSG00000129933	MAU2	-1.1	0.0541789	0.135072	8.152	0.784	7.366	8.935	9.122	0.342	8.807	9.486
5045	ENSG00000125952	MAX	1.2	0.0006823	0.0042883	16.494	0.763	16.042	17.375	14.162	0.859	13.562	15.146
5047	ENSG00000103495	MAZ	-1.1	0.0003198	0.0023245	131.411	6.567	124.006	136.527	152.390	8.344	147.383	162.023
5048	ENSG00000180611	MB21D2	1.1	0.0323109	0.0914295	14.246	1.018	13.182	15.212	12.649	1.214	11.248	13.374
5050	ENSG00000134046	MBD2	-1.1	0.0564443	0.1391867	7.912	0.232	7.674	8.137	9.002	0.160	8.818	9.115
5051	ENSG00000129071	MBD4	-1.2	8.715E-05	0.0008077	34.821	1.103	34.006	36.075	41.962	0.613	41.555	42.667
5052	ENSG00000204406	MBD5	-1.2	0.0002845	0.0021215	2.213	0.010	2.205	2.223	2.777	0.094	2.676	2.862
5054	ENSG00000176055	MBLAC2	1.2	0.0166217	0.0546932	8.046	0.707	7.288	8.688	7.034	0.597	6.439	7.633
5055	ENSG00000152601	MBNL1	1.2	0.004886	0.0207786	4.595	0.590	3.923	5.025	3.830	0.393	3.398	4.167
5058	ENSG00000076770	MBNL3	-1.1	0.0450131	0.1171962	3.441	0.328	3.074	3.706	4.018	0.276	3.857	4.337
5059	ENSG00000172197	MBOAT1	1.2	0.0237952	0.072227	21.579	0.528	21.164	22.173	19.149	0.636	18.698	19.877
5060	ENSG00000125505	MBOAT7	-1.1	0.0013063	0.0072508	22.727	0.847	22.041	23.674	26.698	2.427	25.150	29.495
5062	ENSG00000197971	MBP	1.1	0.0233836	0.0712973	5.272	0.346	5.050	5.671	4.874	0.219	4.725	5.125
5063	ENSG00000011258	MBTD1	-1.1	0.0004039	0.0028141	58.064	1.075	56.834	58.821	66.068	0.335	65.756	66.421
5065	ENSG00000140943	MBTPS1	1.1	0.0683705	0.1608742	24.453	0.598	23.764	24.819	23.638	0.103	23.557	23.755
5067	ENSG00000012174	MBTPS2	1.2	0.0020445	0.0103226	7.434	0.339	7.100	7.777	6.462	0.245	6.193	6.674
5072	ENSG00000076706	MCAM	1.3	0.0003438	0.0024683	10.188	1.007	9.033	10.881	8.125	1.189	7.135	9.444
5077	ENSG00000100294	MCAT	-1.2	0.0118064	0.0416697	7.051	1.086	5.816	7.852	8.985	0.855	8.252	9.924
5078	ENSG00000078070	MCCC1	1.1	0.0104411	0.037793	23.687	0.796	22.874	24.465	21.572	1.203	20.197	22.427
5083	ENSG00000131844	MCCC2	1.1	0.0008579	0.0051656	60.512	1.072	59.288	61.285	55.683	2.704	53.498	58.707
5084	ENSG00000126217	MCF2L	-1.3	1.453E-05	0.0001818	2.211	0.181	2.047	2.405	2.979	0.083	2.884	3.040
5086	ENSG00000128285	MCHR1	2	0.0220035	0.0678844	0.768	0.255	0.499	1.006	0.399	0.231	0.158	0.620
5090	ENSG00000143384	MCL1	1.3	8.56E-12	7.42E-10	330.426	8.792	320.285	335.904	265.889	4.973	262.030	271.501
5092	ENSG00000073111	MCM2	1.1	0.0003256	0.0023598	84.231	3.254	80.539	86.680	76.841	3.385	73.094	79.677
5094	ENSG00000112118	MCM3	1.1	0.0450534	0.117283	293.821	9.191	284.691	303.072	285.584	9.534	274.838	293.027

	A	B	C	D	E	F	G	H	I	J	K	L	M
5095	ENSG00000160294	MCM3AP	-1.1	0.0002961	0.002189	38.948	2.264	36.387	40.681	44.667	0.841	43.968	45.600
5098	ENSG00000215424	MCM3AP-AS1	-1.1	0.1132602	0.2330325	3.091	0.101	2.992	3.193	3.526	0.206	3.349	3.752
5099	ENSG00000076003	MCM6	1.1	0.0009822	0.0057804	103.152	6.705	95.585	108.356	93.167	6.856	85.753	99.278
5100	ENSG00000166508	MCM7	1.1	0.0202734	0.0637332	193.091	9.366	182.351	199.564	184.914	8.450	175.258	190.955
5101	ENSG00000153898	MCOLN2	1.2	0.0367839	0.1004778	5.737	0.420	5.454	6.220	4.927	0.209	4.692	5.091
5107	ENSG00000055732	MCOLN3	2.2	2.51E-15	5.12E-13	11.132	1.006	9.971	11.765	5.143	0.085	5.088	5.241
5108	ENSG00000225663	MCRIP1	1.1	0.0110471	0.0394843	38.577	1.471	36.955	39.825	35.422	2.698	32.677	38.071
5109	ENSG00000241418	MCRIP2P1	-3.2	0.0001252	0.0010866	1.547	0.605	0.867	2.024	5.070	1.267	3.919	6.427
5111	ENSG00000050393	MCUR1	1.3	3.153E-07	7.278E-06	24.119	1.660	22.482	25.802	19.394	0.150	19.237	19.535
5112	ENSG00000137337	MDC1	-1.1	0.0025558	0.0123817	42.056	2.179	39.621	43.823	47.375	1.299	46.182	48.758
5113	ENSG00000112559	MDFI	-1.2	0.007999	0.0305871	23.578	3.026	21.022	26.919	27.863	1.496	26.283	29.259
5114	ENSG00000135272	MDFIC	1.6	1.719E-10	1.069E-08	9.938	0.365	9.671	10.354	6.260	0.482	5.747	6.705
5115	ENSG00000139915	MDGA2	-2.1	0.0039844	0.0177142	0.126	0.048	0.072	0.162	0.278	0.012	0.264	0.285
5119	ENSG00000014641	MDH1	1.1	0.0221151	0.0681173	172.175	3.016	169.126	175.156	165.095	1.473	163.542	166.472
5120	ENSG00000146701	MDH2	-1.1	0.0061658	0.0249063	138.805	5.864	132.195	143.379	154.272	6.051	147.682	159.578
5123	ENSG00000110492	MDK	1.1	0.0300674	0.0864112	214.895	4.445	210.979	219.726	204.985	5.464	200.097	210.885
5124	ENSG00000111554	MDM1	1.1	0.0413012	0.10959	8.224	0.469	7.689	8.567	7.445	1.023	6.472	8.511
5125	ENSG00000198625	MDM4	-1.2	0.0003713	0.0026278	8.997	0.199	8.838	9.220	10.869	0.265	10.637	11.158
5127	ENSG00000065833	ME1	1.7	1.13E-11	9.456E-10	18.305	1.522	17.148	20.029	10.819	0.401	10.439	11.238
5132	ENSG00000082212	ME2	-1.1	0.0041745	0.0183765	18.080	0.173	17.882	18.198	20.155	0.628	19.457	20.672
5134	ENSG00000151376	ME3	1.5	0.0184532	0.0591962	1.364	0.097	1.269	1.463	0.938	0.141	0.783	1.060
5137	ENSG00000163875	MEAF6	1.1	0.1007648	0.2142615	27.481	0.812	26.661	28.284	26.078	1.894	24.848	28.259
5143	ENSG00000169057	MECP2	1.1	0.0571284	0.1404158	6.074	0.324	5.804	6.433	5.740	0.378	5.310	6.021
5144	ENSG00000116353	MECR	1.2	0.0027808	0.0132784	17.233	0.360	16.828	17.516	15.022	0.785	14.425	15.911
5147	ENSG00000125686	MED1	-1.1	0.0039945	0.0177507	32.944	0.856	32.249	33.900	36.905	0.543	36.383	37.467
5152	ENSG00000133398	MED10	-1.1	0.0363937	0.099729	22.401	0.558	21.952	23.025	25.918	1.659	24.292	27.607
5153	ENSG00000161920	MED11	-1.1	0.0973419	0.2092455	16.413	1.295	15.104	17.693	19.137	2.288	16.508	20.677
5154	ENSG00000184634	MED12	-1.1	0.0025456	0.0123426	18.752	1.720	17.101	20.534	21.737	0.959	20.813	22.728
5157	ENSG00000108510	MED13	-1.2	9.302E-06	0.0001256	19.962	0.865	19.004	20.684	24.580	2.332	22.051	26.645
5158	ENSG00000123066	MED13L	-1.2	4.684E-05	0.000486	15.292	0.113	15.191	15.415	18.010	0.658	17.326	18.638
5159	ENSG00000130772	MED18	-1.2	0.0026262	0.0126907	16.236	1.015	15.570	17.404	20.039	0.739	19.366	20.830
5160	ENSG00000124641	MED20	-1.2	0.0003201	0.0023256	27.674	1.986	25.403	29.088	33.509	1.743	31.505	34.671
5161	ENSG00000164758	MED30	-1.1	0.0297496	0.0856871	20.364	0.798	19.451	20.930	23.895	0.754	23.411	24.763
5162	ENSG00000136146	MED4	-1.1	0.0838288	0.1881865	72.015	4.294	67.163	75.325	78.667	4.071	74.750	82.877
5165	ENSG00000133997	MED6	-1.1	0.0315638	0.0898263	13.646	0.220	13.403	13.832	15.493	0.797	14.828	16.376
5166	ENSG00000102802	MEDAG	-1.2	0.0613927	0.1481642	5.802	0.263	5.597	6.099	6.966	0.693	6.257	7.642
5167	ENSG00000068305	MEF2A	1.1	0.0961545	0.2075637	11.962	0.546	11.338	12.353	11.314	0.096	11.225	11.415
5170	ENSG00000145794	MEGF10	-1.3	1.161E-06	2.15E-05	10.990	0.293	10.735	11.311	14.226	0.427	13.748	14.569
5171	ENSG00000162591	MEGF6	-1.1	0.0995282	0.2125673	7.785	0.197	7.598	7.992	8.724	1.233	7.350	9.732
5173	ENSG00000105429	MEGF8	-1.1	0.1057093	0.2217914	26.034	2.098	23.759	27.893	28.410	2.439	26.577	31.178
5175	ENSG00000162039	MEIOB	-1.2	0.0395774	0.1060476	10.640	1.448	9.024	11.818	13.004	0.783	12.184	13.744
5178	ENSG00000105419	MEIS3	1.4	4.527E-08	1.372E-06	15.585	0.425	15.339	16.075	11.060	0.309	10.703	11.252

	A	B	C	D	E	F	G	H	I	J	K	L	M
5183	ENSG00000165304	MELK	-1.2	3.436E-05	0.0003738	55.279	1.052	54.463	56.467	67.381	6.831	61.759	74.983
5185	ENSG00000117899	MESDC2	1.1	0.0039971	0.0177574	19.776	1.148	18.598	20.892	17.935	1.209	16.978	19.294
5186	ENSG00000106484	MEST	-1.1	0.0084682	0.0319156	89.974	2.014	88.249	92.187	98.984	2.063	97.230	101.258
5187	ENSG00000105976	MET	1.1	0.0319377	0.0906617	7.300	0.813	6.688	8.222	6.496	0.910	5.453	7.126
5188	ENSG00000176845	METRNL	1.1	0.0517498	0.130361	17.934	0.881	17.020	18.779	16.340	0.616	15.849	17.032
5192	ENSG00000037897	METTL1	1.3	0.0008299	0.0050222	9.513	0.679	8.844	10.203	7.275	0.387	6.952	7.704
5194	ENSG00000214756	METTL12	-1.3	0.0285565	0.0830799	2.186	0.407	1.716	2.432	2.925	0.350	2.553	3.249
5195	ENSG00000010165	METTL13	-1.1	0.0325276	0.0919198	34.266	0.658	33.547	34.838	38.052	2.652	35.020	39.945
5197	ENSG00000127804	METTL16	-1.2	5.64E-07	1.192E-05	21.412	1.155	20.079	22.126	26.868	1.274	25.553	28.097
5198	ENSG00000067365	METTL22	-1.2	0.0003423	0.002458	9.334	0.737	8.640	10.108	11.335	0.447	10.875	11.767
5200	ENSG00000181038	METTL23	-1.2	0.0086611	0.0324442	26.426	0.483	25.921	26.883	31.393	2.847	28.155	33.502
5202	ENSG00000130731	METTL26	-1.1	0.0111472	0.0397732	35.345	1.153	34.047	36.249	41.439	3.897	38.104	45.723
5207	ENSG00000165819	METTL3	-1.2	1.938E-05	0.0002317	47.745	0.904	46.713	48.397	56.204	0.680	55.432	56.714
5208	ENSG00000101574	METTL4	1.1	0.0311812	0.0889171	8.969	0.589	8.303	9.421	8.133	0.557	7.705	8.763
5209	ENSG00000185432	METTL7A	-1.2	0.0581223	0.1422404	2.624	0.470	2.171	3.110	3.254	0.118	3.119	3.333
5214	ENSG00000170439	METTL7B	2.4	1.438E-08	5.089E-07	13.244	2.957	10.686	16.481	5.634	1.151	4.673	6.909
5218	ENSG00000123600	METTL8	-1.1	0.0125231	0.0436437	13.620	1.836	12.422	15.733	15.759	1.100	14.499	16.525
5220	ENSG00000254726	MEX3A	-1.1	0.0001394	0.0011827	53.833	2.395	51.304	56.066	62.211	1.694	60.334	63.626
5221	ENSG00000183496	MEX3B	-1.1	0.0840822	0.1885301	7.160	0.433	6.691	7.545	8.232	1.062	7.473	9.446
5222	ENSG00000176624	MEX3C	-1.1	0.0560492	0.1385098	41.280	2.699	38.177	43.084	44.906	1.665	43.158	46.474
5226	ENSG00000117122	MFAP2	-1.1	0.0228995	0.0700869	47.670	2.290	45.534	50.088	53.295	3.204	49.847	56.180
5228	ENSG00000168958	MFF	1.1	0.0602721	0.146169	35.850	1.814	34.052	37.679	34.412	1.338	33.572	35.955
5233	ENSG00000140545	MFGE8	-1.2	1.886E-08	6.417E-07	283.280	21.748	261.925	305.401	350.741	9.338	345.222	361.523
5234	ENSG00000147324	MFHAS1	-1.3	7.513E-09	2.888E-07	34.738	1.667	33.720	36.661	46.350	4.014	42.102	50.080
5236	ENSG00000171109	MFN1	-1.1	0.0005869	0.0038135	31.554	1.171	30.400	32.741	36.519	1.311	35.260	37.877
5239	ENSG00000116688	MFN2	1.1	0.0001834	0.0014889	57.217	0.846	56.416	58.102	51.100	2.334	48.559	53.150
5244	ENSG00000100060	MFNG	-1.5	0.0051865	0.0217127	2.386	0.291	2.184	2.720	3.575	1.168	2.524	4.833
5245	ENSG00000118855	MFSD1	1.7	1.031E-07	2.807E-06	5.088	0.419	4.694	5.528	3.083	0.419	2.619	3.436
5247	ENSG00000161091	MFSD12	-1.1	0.0542998	0.1353534	15.501	0.687	14.709	15.930	17.413	1.361	15.951	18.642
5249	ENSG00000148110	MFSD14B	1.1	0.000165	0.0013661	53.997	2.495	51.415	56.394	48.109	0.253	47.856	48.361
5252	ENSG00000168389	MFSD2A	1.2	0.0190634	0.0607079	7.959	0.650	7.374	8.659	6.876	1.173	5.542	7.747
5256	ENSG00000167700	MFSD3	-1.2	0.001294	0.0072085	52.732	4.896	47.653	57.422	64.079	5.735	60.484	70.693
5259	ENSG00000173214	MFSD4B	1.1	0.1059954	0.222254	3.699	0.290	3.378	3.943	3.329	0.277	3.027	3.571
5260	ENSG00000182544	MFSD5	1.2	0.0184761	0.0592279	10.560	0.330	10.182	10.794	9.126	0.873	8.120	9.687
5261	ENSG00000151690	MFSD6	1.3	0.0095663	0.0351507	2.775	0.290	2.597	3.109	2.233	0.189	2.060	2.435
5265	ENSG00000185156	MFSD6L	-1.7	1.2E-05	0.0001558	3.633	0.248	3.444	3.914	6.350	0.772	5.504	7.017
5271	ENSG00000174197	MGA	1.2	1.628E-06	2.841E-05	16.574	0.247	16.395	16.856	14.149	0.805	13.322	14.931
5272	ENSG00000137463	MGARP	-2.6	6.723E-06	9.507E-05	1.735	0.713	1.323	2.559	4.684	0.600	4.059	5.256
5274	ENSG00000128268	MGAT3	-1.1	0.0424315	0.1118529	9.439	0.964	8.333	10.102	10.910	1.278	10.074	12.381
5279	ENSG00000071073	MGAT4A	1.1	0.0919799	0.2013273	3.789	0.178	3.649	3.989	3.471	0.210	3.293	3.703
5280	ENSG00000161013	MGAT4B	1.1	0.0016923	0.0089388	39.328	0.720	38.772	40.141	35.012	1.940	33.499	37.200
5284	ENSG00000182050	MGAT4C	-1.5	0.0176959	0.0572511	0.130	0.016	0.112	0.144	0.193	0.034	0.162	0.229
5290	ENSG00000167889	MGAT5B	-1.2	0.0657776	0.1562276	3.418	0.373	3.006	3.733	4.066	0.399	3.606	4.329

	A	B	C	D	E	F	G	H	I	J	K	L	M
5292	ENSG00000198408	MGEA5	1.1	0.0093838	0.0345771	129.730	2.467	127.985	132.552	123.911	4.385	119.034	127.527
5293	ENSG00000125871	MGME1	-1.1	0.0192722	0.0611769	63.874	0.546	63.245	64.224	71.301	3.709	67.279	74.585
5294	ENSG00000170430	MGMT	-1.1	0.1197282	0.2423945	10.688	0.271	10.508	11.000	11.922	0.455	11.448	12.355
5296	ENSG00000008394	MGST1	1.2	2.077E-07	5.103E-06	91.299	4.263	88.149	96.150	78.323	0.930	77.359	79.215
5297	ENSG00000085871	MGST2	1.2	0.1240192	0.2490544	4.827	0.581	4.225	5.384	4.275	0.359	3.904	4.620
5298	ENSG00000232442	MHENCN	-1.5	0.0020561	0.0103715	8.941	1.219	7.557	9.858	13.304	1.184	12.084	14.449
5300	ENSG00000225783	MIAT	-1.4	2.161E-06	3.626E-05	26.536	1.626	24.755	27.943	37.141	3.802	34.175	41.427
5301	ENSG00000101752	MIB1	-1.1	0.0012016	0.0068182	54.428	0.251	54.140	54.602	61.033	2.041	58.727	62.610
5304	ENSG00000197530	MIB2	-1.1	0.061502	0.148301	5.407	0.250	5.123	5.591	6.249	1.255	5.385	7.689
5305	ENSG00000204520	MICA	1.2	0.0107978	0.0387881	20.020	1.194	18.997	21.331	17.588	1.969	15.523	19.444
5306	ENSG00000135596	MICAL1	1.1	0.0989306	0.2117456	27.277	1.737	25.443	28.897	26.192	1.462	24.527	27.263
5307	ENSG00000133816	MICAL2	1.7	0.0053047	0.022087	0.259	0.053	0.215	0.318	0.151	0.050	0.109	0.206
5308	ENSG00000107745	MICU1	1.1	0.0030585	0.0143168	43.665	1.661	41.883	45.168	39.887	0.657	39.227	40.541
5309	ENSG00000155970	MICU3	1.3	0.004819	0.0205797	6.144	0.549	5.706	6.760	4.964	0.277	4.652	5.181
5311	ENSG00000101871	MID1	1.2	6.147E-06	8.816E-05	28.078	3.033	26.239	31.578	23.540	0.981	22.790	24.650
5313	ENSG00000167470	MIDN	1.1	0.0544987	0.1356891	57.366	1.680	55.482	58.708	54.467	5.871	50.925	61.244
5317	ENSG00000100335	MIEF1	-1.2	1.217E-06	2.229E-05	19.319	0.331	18.990	19.653	24.612	2.017	22.283	25.801
5318	ENSG00000198160	MIER1	-1.1	0.0134237	0.0462113	14.325	0.455	13.858	14.767	16.280	0.888	15.280	16.976
5322	ENSG00000105556	MIER2	-1.1	0.0457874	0.1187732	8.498	0.353	8.220	8.895	9.518	0.126	9.375	9.614
5325	ENSG00000240972	MIF	-1.1	0.0003209	0.0023297	389.254	10.098	378.231	398.058	442.864	8.464	434.110	451.004
5326	ENSG00000125457	MIF4GD	1.1	0.0673093	0.1591503	24.177	0.807	23.689	25.109	22.294	1.145	21.491	23.604
5328	ENSG00000148343	MIGA2	-1.2	0.0004257	0.0029356	9.833	0.489	9.278	10.198	12.380	0.619	11.837	13.054
5329	ENSG00000116691	MIIP	-1.1	0.0728345	0.1689549	27.859	1.570	26.142	29.223	31.537	4.142	28.296	36.203
5330	ENSG00000141503	MINK1	-1.1	0.0056651	0.0233236	20.645	1.641	19.561	22.533	23.891	1.779	22.203	25.750
5331	ENSG00000107789	MINPP1	-1.2	0.0031546	0.0146819	24.862	1.553	23.069	25.766	29.610	2.518	26.930	31.928
5332	ENSG00000255248	MIR100HG	1.5	0.0002482	0.0018977	1.224	0.088	1.123	1.287	0.822	0.059	0.762	0.879
5335	ENSG00000283498	MIR1244-2	1.1	0.0768182	0.1757135	4811.022	84.361	4724.753	4893.336	4665.037	214.466	4422.724	4830.454
5336	ENSG00000230937	MIR205HG	-1.7	1.305E-07	3.437E-06	4.492	0.848	3.528	5.120	7.995	0.894	7.335	9.013
5337	ENSG00000247095	MIR210HG	-1.6	0.0034086	0.0156106	1.764	0.441	1.348	2.226	2.911	0.732	2.085	3.479
5338	ENSG00000270069	MIR222HG	1.2	0.055924	0.1383215	13.955	1.767	11.928	15.172	12.366	1.461	11.175	13.996
5339	ENSG00000207547	MIR25	-1.6	0.0028888	0.0136439	44.072	9.224	36.935	54.488	72.475	9.559	61.589	79.499
5340	ENSG00000207927	MIR302A	-1.5	0.0079011	0.0303622	72.242	11.931	62.617	85.591	113.880	35.342	77.066	147.538
5341	ENSG00000199102	MIR302C	-1.4	0.0090404	0.0335456	110.356	4.195	107.357	115.150	155.127	19.969	142.345	178.138
5342	ENSG00000199145	MIR302D	-1.3	0.0156436	0.0521547	156.749	26.525	127.076	178.157	206.363	28.075	179.158	235.233
5343	ENSG00000228526	MIR34AHG	-1.2	0.0169469	0.0554942	25.383	3.420	21.881	28.715	30.546	1.974	28.267	31.718

	A	B	C	D	E	F	G	H	I	J	K	L	M
5344	ENSG00000172965	MIR4435-2HG	1.7	6.326E-08	1.82E-06	4.360	0.633	3.952	5.089	2.684	0.243	2.421	2.899
5345	ENSG00000223749	MIR503HG	1.5	0.0380967	0.1029775	2.442	0.095	2.377	2.552	1.696	0.523	1.094	2.036
5347	ENSG00000207652	MIR621	1.4	0.0030609	0.0143208	135.825	24.623	107.727	153.641	95.830	17.833	76.490	111.621
5350	ENSG00000255571	MIR9-3HG	1.3	0.0641724	0.1532977	0.829	0.088	0.732	0.902	0.635	0.162	0.495	0.812
5354	ENSG00000167842	MIS12	-1.1	0.0028264	0.0134277	31.747	0.464	31.383	32.270	36.765	1.266	35.910	38.220
5356	ENSG00000158411	MITD1	1.1	0.0406754	0.1084058	25.562	1.984	23.954	27.780	23.893	1.098	23.215	25.159
5359	ENSG00000148773	MKI67	-1.2	3.058E-07	7.124E-06	86.653	1.927	84.677	88.527	103.953	4.396	99.058	107.563
5361	ENSG00000128585	MKLN1	-1.1	0.0633916	0.1519906	21.537	0.628	20.963	22.207	23.399	1.531	21.707	24.687
5363	ENSG00000099875	MKNK2	-1.1	0.0067838	0.0267947	53.848	0.368	53.482	54.218	60.563	3.774	57.760	64.854
5366	ENSG00000133606	MKRN1	1.1	0.0500289	0.1269906	62.415	2.984	59.194	65.085	59.994	0.991	58.871	60.741
5367	ENSG00000110917	MLEC	1.1	0.0171682	0.0559794	169.053	3.333	165.521	172.143	162.871	6.183	157.217	169.473
5368	ENSG00000076242	MLH1	1.1	0.0008872	0.0052985	42.806	1.091	41.551	43.531	38.464	1.017	37.422	39.454
5370	ENSG00000130382	MLLT1	-1.2	0.0006599	0.0041836	25.122	1.172	24.171	26.431	29.694	1.142	28.483	30.752
5371	ENSG00000078403	MLLT10	1.1	0.1139153	0.2338844	34.462	1.335	33.208	35.866	33.387	1.502	31.954	34.950
5376	ENSG00000213190	MLLT11	1.1	0.0037047	0.0166685	25.517	0.305	25.181	25.777	23.044	0.823	22.402	23.971
5377	ENSG00000171843	MLLT3	-1.3	0.0007147	0.0044391	3.134	0.199	2.926	3.324	4.107	0.416	3.706	4.537
5378	ENSG00000275023	MLLT6	-1.2	0.0317563	0.090283	1.671	0.218	1.470	1.902	2.034	0.262	1.742	2.249
5379	ENSG00000115648	MLPH	-1.4	7.045E-07	1.428E-05	5.564	0.391	5.175	5.958	7.958	0.635	7.420	8.659
5380	ENSG00000108788	MLX	-1.1	0.0707729	0.1651466	16.492	1.691	14.902	18.269	18.474	1.065	17.247	19.169
5382	ENSG00000009950	MLXIPL	-1.4	2.565E-05	0.0002933	6.245	0.602	5.673	6.873	8.722	0.301	8.492	9.062
5383	ENSG00000103150	MLYCD	-1.1	0.1001437	0.2134774	1.873	0.135	1.718	1.964	2.145	0.195	1.970	2.354
5384	ENSG00000139428	MMAB	1.6	6.24E-11	4.254E-09	13.925	0.640	13.262	14.539	8.997	0.776	8.197	9.747
5385	ENSG00000132763	MMACHC	-1.2	0.0041372	0.0182554	3.814	0.240	3.571	4.051	4.838	0.267	4.569	5.102
5386	ENSG00000168288	MMADHC	-1.1	5.667E-05	0.0005678	153.530	6.864	146.469	160.179	178.502	1.512	176.847	179.812
5388	ENSG00000196549	MME	1.2	1.379E-06	2.489E-05	11.840	0.410	11.549	12.309	9.703	0.085	9.605	9.755
5390	ENSG00000240666	MME-AS1	3.2	2.164E-07	5.279E-06	8.349	1.101	7.133	9.278	2.669	1.178	1.612	3.939
5391	ENSG00000142606	MMEL1	1.3	0.0600094	0.1456363	1.721	0.375	1.460	2.151	1.318	0.351	0.955	1.656
5392	ENSG00000169446	MMGT1	-1.1	0.0737283	0.1703971	27.606	0.121	27.530	27.746	30.513	1.481	28.833	31.631
5394	ENSG00000166670	MMP10	4.5	0.0865804	0.1925489	0.168	0.084	0.085	0.252	0.030	0.051	0.000	0.089
5395	ENSG00000099953	MMP11	-1.3	0.0012219	0.0068954	4.882	0.538	4.289	5.338	6.417	0.353	6.062	6.768
5396	ENSG00000102996	MMP15	-1.2	0.0027798	0.0132772	40.408	2.844	37.153	42.413	47.824	4.948	44.527	53.513
5398	ENSG00000156103	MMP16	-1.7	1.124E-06	2.103E-05	12.109	1.385	11.043	13.674	20.970	2.574	18.318	23.459
5399	ENSG00000123342	MMP19	1.8	0.0001505	0.0012619	1.785	0.425	1.531	2.275	1.026	0.197	0.803	1.179
5400	ENSG00000087245	MMP2	1.2	6.454E-05	0.0006325	23.021	2.178	20.635	24.902	19.192	1.366	17.630	20.163
5401	ENSG00000125966	MMP24	1.8	8.786E-09	3.324E-07	41.944	6.216	34.854	46.457	23.651	1.401	22.060	24.696
5402	ENSG00000100985	MMP9	-1.6	0.0130191	0.045075	1.331	0.163	1.212	1.517	2.131	0.244	1.857	2.327
5403	ENSG00000155229	MMS19	-1.1	0.0653097	0.1553303	65.157	1.125	64.495	66.456	70.145	0.667	69.549	70.866
5405	ENSG00000146263	MMS22L	1.1	0.0950979	0.2059927	6.275	0.272	6.037	6.572	6.037	0.101	5.971	6.153
5406	ENSG00000138587	MNS1	1.2	0.0639641	0.152973	7.969	0.900	7.017	8.806	6.788	1.219	5.434	7.798
5408	ENSG00000070444	MNT	1.1	0.0741516	0.1710251	7.190	0.229	6.936	7.380	6.661	0.703	5.927	7.329

	A	B	C	D	E	F	G	H	I	J	K	L	M
5409	ENSG00000182208	MOB2	-1.1	0.1111554	0.2301349	6.248	0.211	6.010	6.414	7.085	0.148	6.954	7.245
5412	ENSG00000142961	MOB3C	1.3	0.0085944	0.0322584	3.288	0.118	3.194	3.421	2.658	0.324	2.285	2.861
5416	ENSG00000075643	MOCOS	1.5	4.274E-08	1.312E-06	8.718	0.356	8.368	9.079	5.977	0.489	5.415	6.300
5417	ENSG00000164172	MOCOS2	1.2	0.0003235	0.0023472	9.291	0.380	9.048	9.728	7.716	0.360	7.303	7.963
5420	ENSG00000115275	MOGS	-1.1	0.0215705	0.0669151	37.369	1.601	35.703	38.897	42.214	4.274	38.961	47.055
5421	ENSG00000133131	MORC4	1.3	0.0023879	0.0117132	3.826	0.630	3.414	4.552	3.025	0.135	2.922	3.177
5426	ENSG00000185787	MORF4L1	-1.1	0.0023758	0.0116674	108.746	1.167	107.510	109.829	120.907	3.043	118.236	124.220
5428	ENSG00000218283	MORF4L1P 1	-1.1	0.0162419	0.0537467	871.823	24.421	848.385	897.120	947.424	19.116	926.564	964.105
5430	ENSG00000171160	MORN4	1.2	0.0029806	0.0140107	34.125	1.119	33.347	35.408	29.915	1.784	28.017	31.557
5432	ENSG00000130150	MOSPD2	1.2	1.385E-05	0.0001757	27.008	0.337	26.631	27.279	22.776	1.541	21.596	24.520
5433	ENSG00000155363	MOV10	-1.1	0.0443225	0.1157724	23.026	1.461	21.526	24.446	25.491	0.610	24.998	26.174
5434	ENSG00000079931	MOXD1	1.2	0.0341521	0.0953159	6.046	0.387	5.722	6.474	5.366	0.297	5.082	5.675
5441	ENSG00000060762	MPC1	1.3	0.0018494	0.0095651	13.700	0.188	13.492	13.857	10.523	0.379	10.146	10.903
5442	ENSG00000143158	MPC2	1.2	0.0011396	0.0065271	31.614	0.401	31.262	32.050	27.690	1.094	26.781	28.904
5444	ENSG00000129255	MPDU1	1.1	0.0928583	0.2025032	32.780	2.066	30.748	34.879	31.257	0.172	31.060	31.375
5445	ENSG00000107186	MPDZ	1.1	0.0020133	0.0102128	40.649	0.708	39.920	41.335	37.890	1.225	36.752	39.187
5446	ENSG00000135698	MPHOSPH 6	-1.1	0.0219488	0.067815	34.769	1.494	33.641	36.464	39.665	1.706	37.873	41.271
5449	ENSG00000051825	MPHOSPH 9	-1.1	0.0566798	0.1395379	13.000	0.650	12.337	13.636	14.403	0.937	13.448	15.322
5451	ENSG00000178802	MPI	-1.2	0.0005221	0.0034706	7.644	0.812	6.708	8.162	9.424	0.126	9.327	9.566
5452	ENSG00000168303	MPLKIP	-1.1	0.0206112	0.0646148	13.470	0.660	12.755	14.056	15.165	1.088	14.473	16.419
5453	ENSG00000008382	MPND	-1.1	0.0581699	0.1423153	20.813	2.007	18.759	22.770	23.840	1.577	22.814	25.656
5454	ENSG00000130830	MPP1	1.8	3.56E-13	4.24E-11	14.792	0.890	14.091	15.793	8.330	0.597	7.918	9.014
5455	ENSG00000161647	MPP3	-1.2	0.0491602	0.1254996	3.001	0.068	2.926	3.059	3.658	0.193	3.448	3.828
5456	ENSG00000150054	MPP7	1.2	0.0180925	0.0583383	8.238	0.443	7.925	8.744	7.309	0.830	6.699	8.254
5459	ENSG00000133030	MPRIP	-1	0.0885861	0.195825	23.673	0.201	23.447	23.834	25.358	0.558	24.804	25.919
5460	ENSG00000128309	MPST	-1.1	0.0303958	0.0871033	18.768	0.788	17.918	19.473	20.933	1.427	19.886	22.558
5463	ENSG00000115204	MPV17	1.2	0.000531	0.0035163	15.290	0.336	14.991	15.654	13.074	0.322	12.876	13.445
5464	ENSG00000156968	MPV17L	1.2	0.0344263	0.0957493	4.202	0.324	3.833	4.438	3.686	0.162	3.540	3.860
5469	ENSG00000197965	MPZL1	1.1	0.0066367	0.026386	49.042	1.025	47.884	49.835	46.232	0.945	45.355	47.234
5471	ENSG00000160588	MPZL3	1.2	0.04539	0.1179431	3.496	0.370	3.191	3.907	2.910	0.346	2.523	3.193
5472	ENSG00000135324	MRAP2	1.3	0.0020085	0.010201	9.748	0.572	9.121	10.241	7.659	0.621	7.054	8.295
5475	ENSG00000158186	MRAS	1.1	0.0492738	0.1256964	5.980	0.331	5.618	6.267	5.363	0.535	4.865	5.929
5479	ENSG00000011028	MRC2	1.2	0.0070302	0.0276003	11.669	1.067	10.438	12.340	10.156	1.105	8.953	11.126
5482	ENSG00000179010	MRFAP1	-1.1	0.0039853	0.0177142	270.955	2.174	268.491	272.606	298.437	7.165	290.770	304.963
5485	ENSG00000101189	MRGBP	-1.2	0.0063449	0.0254475	16.583	0.575	15.937	17.042	19.625	0.436	19.143	19.992
5489	ENSG00000037757	MRI1	-1.1	0.0717497	0.1669423	11.286	0.236	11.079	11.542	12.850	0.830	11.908	13.473
5491	ENSG00000171861	MIRM3	-1.1	0.0444161	0.1159033	15.944	1.067	14.718	16.659	18.373	0.892	17.456	19.237

	A	B	C	D	E	F	G	H	I	J	K	L	M
5492	ENSG00000161010	MRNIP	-1.3	2.718E-07	6.457E-06	6.838	0.073	6.760	6.905	9.415	0.556	8.839	9.950
5493	ENSG00000169288	MRPL1	1.5	5.773E-10	3.004E-08	37.807	1.467	36.192	39.058	25.516	1.665	24.309	27.415
5495	ENSG00000174547	MRPL11	1.1	0.017541	0.0568534	68.701	0.908	67.950	69.709	64.691	2.533	62.049	67.099
5496	ENSG00000137547	MRPL15	1.2	2.514E-05	0.0002887	138.911	4.531	136.226	144.142	119.023	5.303	112.921	122.519
5497	ENSG00000115364	MRPL19	-1.1	0.0010651	0.0061926	51.916	2.003	50.060	54.039	59.069	1.855	57.752	61.191
5498	ENSG00000214026	MRPL23	-1.1	0.0525743	0.1320839	15.820	0.348	15.575	16.219	17.879	0.548	17.279	18.353
5501	ENSG00000086504	MRPL28	-1.1	0.0002708	0.0020387	75.338	1.524	73.747	76.786	88.112	3.601	84.575	91.774
5503	ENSG00000106591	MRPL32	-1.2	3.375E-06	5.285E-05	49.820	1.420	48.536	51.346	61.145	1.169	60.143	62.429
5507	ENSG00000243147	MRPL33	-1.1	0.0310915	0.0887812	68.112	0.964	67.102	69.023	76.476	4.422	71.950	80.787
5512	ENSG00000130312	MRPL34	-1.1	0.031146	0.0888619	52.944	2.567	50.879	55.819	59.310	2.495	57.477	62.151
5514	ENSG00000116221	MRPL37	-1.1	0.0825053	0.1858815	96.586	3.216	92.933	98.990	104.128	1.474	102.599	105.540
5520	ENSG00000105364	MRPL4	-1.1	0.102054	0.2162685	34.877	0.301	34.535	35.102	37.931	1.677	36.740	39.849
5522	ENSG00000198015	MRPL42	-1.2	0.0001014	0.0009146	22.696	0.618	22.294	23.408	26.732	1.680	25.654	28.668
5531	ENSG00000055950	MRPL43	-1.2	0.0004989	0.0033499	24.734	0.922	24.065	25.785	29.413	0.928	28.352	30.072
5532	ENSG00000135900	MRPL44	-1.2	4.297E-05	0.0004523	64.653	1.433	63.518	66.263	78.525	3.515	74.621	81.439
5536	ENSG00000228782	MRPL45P2	-1.2	0.0915303	0.200759	5.073	0.547	4.448	5.468	6.140	0.385	5.753	6.523
5537	ENSG00000259494	MRPL46	-1.1	0.0503875	0.1277666	4.399	0.212	4.155	4.540	5.127	0.081	5.034	5.179
5538	ENSG00000136522	MRPL47	-1.1	0.0125181	0.0436353	109.335	2.638	106.573	111.829	123.022	4.132	120.385	127.784
5541	ENSG00000149792	MRPL49	-1.1	0.007879	0.0302857	40.879	0.965	39.765	41.465	46.316	2.380	44.214	48.900
5545	ENSG00000136897	MRPL50	-1.1	0.0106385	0.0383236	47.383	1.518	45.697	48.641	53.105	0.974	51.984	53.740
5549	ENSG00000143436	MRPL9	-1.1	0.110075	0.2285694	73.712	3.743	69.422	76.316	79.906	1.737	78.102	81.566
5556	ENSG00000048544	MRPS10	-1.1	0.0152816	0.05119	50.156	1.135	49.436	51.464	56.592	2.268	54.097	58.529
5561	ENSG00000181991	MRPS11	1.1	0.0861006	0.1918096	9.111	0.161	8.983	9.292	8.503	0.287	8.172	8.675
5567	ENSG00000128626	MRPS12	-1.2	8.969E-05	0.0008275	27.375	1.864	25.225	28.528	34.192	0.303	33.899	34.504
5569	ENSG00000122140	MRPS2	-1.2	0.0003695	0.0026159	53.700	1.712	52.165	55.547	64.445	1.483	63.283	66.116
5571	ENSG00000062582	MRPS24	1.4	0.1044985	0.2201523	1.794	0.672	1.244	2.543	1.360	0.458	0.832	1.661
5584	ENSG00000147586	MRPS28	-1.1	0.0752292	0.1728502	14.877	1.032	13.823	15.886	17.226	0.973	16.165	18.076
5585	ENSG00000112996	MRPS30	1.1	0.0534286	0.1335643	33.874	1.102	32.622	34.696	32.398	1.482	30.866	33.824
5592	ENSG00000102738	MRPS31	-1.1	0.0183763	0.0590422	41.803	2.341	39.856	44.401	47.626	4.060	43.739	51.840
5594	ENSG00000074071	MRPS34	-1.1	0.0610326	0.1476112	199.595	15.955	185.853	217.093	219.621	11.605	211.005	232.816
5598	ENSG00000144029	MRPS5	-1.1	0.0051805	0.0217019	21.462	0.710	20.732	22.150	24.292	0.553	23.946	24.930
5599	ENSG00000135972	MRPS9	-1.1	0.0079025	0.0303622	105.070	1.989	103.159	107.129	118.305	6.363	111.235	123.575
5611	ENSG00000124532	MRS2	1.7	3.90E-20	2.54E-17	125.044	2.418	122.275	126.743	77.333	2.215	74.970	79.363
5618	ENSG00000072952	MRVI1	1.2	0.0020626	0.0103946	6.048	0.512	5.465	6.424	5.015	0.029	4.985	5.042
5620	ENSG00000066697	MSANTD3	1.1	0.0869452	0.1930661	22.084	0.194	21.936	22.304	20.890	0.629	20.241	21.496
5624	ENSG00000170903	MSANTD4	-1.1	0.0072514	0.028285	17.286	1.005	16.322	18.328	20.276	1.990	18.283	22.262
5627	ENSG00000235531	MSC-AS1	1.6	0.0349106	0.0967938	0.448	0.083	0.379	0.541	0.287	0.012	0.274	0.297
5632	ENSG00000095002	MSH2	-1.1	0.0001563	0.0013031	167.656	7.686	161.891	176.382	192.067	8.336	183.105	199.590
5637	ENSG00000204410	MSH5	-1.2	0.0706196	0.1648868	2.575	0.262	2.299	2.820	3.093	0.276	2.840	3.387
5640	ENSG00000135097	MSI1	-1.2	0.0063044	0.0253191	21.528	2.672	18.444	23.143	26.006	2.628	24.088	29.002
5643	ENSG00000153944	MSI2	-1.2	1.773E-05	0.0002142	18.198	1.377	16.807	19.560	21.675	0.376	21.398	22.103
5645	ENSG00000188895	MSL1	-1.2	1.213E-06	2.225E-05	39.906	1.274	38.782	41.290	48.563	2.164	46.770	50.966

	A	B	C	D	E	F	G	H	I	J	K	L	M
5646	ENSG00000174579	MSL2	-1.1	0.000653	0.0041532	27.880	0.312	27.547	28.167	32.539	0.386	32.188	32.952
5659	ENSG00000052802	MSMO1	2	5.04E-24	8.53E-21	257.609	9.659	247.912	267.229	133.502	5.975	126.731	138.034
5664	ENSG00000147065	MSN	-1	0.1193415	0.2418722	136.605	2.719	133.686	139.067	145.289	4.103	140.838	148.921
5665	ENSG00000251593	MSNP1	-1.2	0.1031401	0.2179966	7.885	1.045	6.781	8.860	9.347	0.903	8.742	10.384
5672	ENSG00000174099	MSRB3	-1.3	0.0748437	0.1722454	0.776	0.100	0.669	0.867	1.064	0.349	0.751	1.441
5678	ENSG00000166343	MSS51	-1.3	0.0437114	0.11453	3.036	0.585	2.498	3.658	3.965	0.489	3.589	4.518
5681	ENSG00000173531	MST1	-1.3	0.0118034	0.0416697	2.249	0.128	2.141	2.391	3.020	0.216	2.880	3.269
5683	ENSG00000186715	MST1L	-1.1	0.086514	0.1924264	3.458	0.184	3.247	3.583	4.058	0.235	3.922	4.330
5689	ENSG00000125459	MSTO1	1.1	0.0698625	0.1635864	11.249	0.185	11.038	11.381	10.432	0.139	10.327	10.590
5693	ENSG00000198899	MT-ATP6	1.1	0.078408	0.1786494	16171.083	530.230	15815.936	16780.567	15349.943	258.103	15132.061	15634.989
5703	ENSG00000228253	MT-ATP8	1.1	0.117261	0.2389729	16226.056	477.907	15850.054	16763.860	15150.885	155.026	15017.158	15320.807
5710	ENSG00000198804	MT-CO1	1.2	2.351E-07	5.672E-06	21317.612	99.504	21231.018	21426.308	18836.398	198.766	18673.955	19058.037
5719	ENSG00000198712	MT-CO2	1.1	0.0031821	0.0147854	23732.064	450.278	23260.420	24157.397	22061.600	796.395	21155.917	22652.454
5720	ENSG00000198727	MT-CYB	-1.1	0.0837186	0.187989	3993.415	214.917	3858.584	4241.260	4395.081	192.882	4244.194	4612.399
5724	ENSG00000198888	MT-ND1	1.3	6.02E-13	6.74E-11	3078.127	13.418	3065.122	3091.922	2364.964	73.422	2290.012	2436.753
5731	ENSG00000198763	MT-ND2	1.2	0.0003558	0.002536	6317.031	92.936	6241.455	6420.799	5348.396	174.222	5151.835	5483.770
5732	ENSG00000198840	MT-ND3	1.1	2.413E-05	0.000279	6248.630	95.209	6161.781	6350.430	5615.334	17.845	5598.270	5633.870
5734	ENSG00000198886	MT-ND4	1.1	0.0104548	0.037815	13424.521	76.786	13336.762	13479.346	12548.324	288.720	12266.460	12843.444
5746	ENSG00000212907	MT-ND4L	1.1	0.0057911	0.0237327	16382.602	170.804	16209.834	16551.372	15386.402	477.903	14972.280	15909.325
5751	ENSG00000198786	MT-ND5	1.1	0.0021478	0.0107217	3502.216	137.792	3350.158	3618.808	3227.658	21.613	3205.113	3248.199
5753	ENSG00000198695	MT-ND6	1.3	0.0558236	0.1381741	882.385	83.068	816.335	975.645	672.623	38.110	640.938	714.912
5762	ENSG00000211459	MT-RNR1	1.1	2.62E-05	0.0002981	2469.950	37.384	2446.086	2513.034	2229.400	73.386	2145.555	2281.951
5768	ENSG00000210082	MT-RNR2	1.1	1.218E-06	2.23E-05	20419.823	1042.928	19228.257	21166.690	18187.928	349.023	17825.831	18522.214
5780	ENSG00000210194	MT-TE	1.7	0.0756708	0.1736528	27.926	5.834	23.538	34.547	16.990	2.044	15.755	19.349
5785	ENSG00000209082	MT-TL1	1.3	0.0087478	0.0327038	269.937	11.121	258.052	280.092	214.111	46.946	160.211	246.068
5787	ENSG00000210196	MT-TP	1.9	0.0024682	0.0120408	66.030	16.103	50.392	82.560	35.905	2.767	34.257	39.100
5792	ENSG00000210151	MT-TS1	-1.7	0.0047296	0.0202717	46.868	9.267	37.470	55.998	79.813	3.549	75.933	82.894
5806	ENSG00000169715	MT1E	2.4	0.0329832	0.0928504	34.497	24.587	14.540	61.963	15.019	1.994	13.040	17.027
5812	ENSG00000198417	MT1F	1.7	0.041785	0.1105269	4.383	2.508	1.735	6.722	2.640	0.171	2.474	2.815
5817	ENSG00000125144	MT1G	2.2	0.0251183	0.0752036	39.854	23.799	21.652	66.785	18.291	3.574	14.909	22.029
5818	ENSG00000205358	MT1H	2.2	0.1144081	0.2345765	17.648	15.646	4.946	35.124	8.232	1.687	6.551	9.926
5821	ENSG00000187193	MT1X	-1.3	0.0224912	0.069062	7.556	1.486	5.966	8.910	10.059	1.213	8.672	10.919
5822	ENSG00000125148	MT2A	2.5	0.0313139	0.0892053	37.894	28.293	16.114	69.873	15.493	3.890	11.118	18.564
5826	ENSG00000182979	MTA1	-1.2	0.0003818	0.0026917	39.543	0.617	38.914	40.148	47.021	4.715	43.339	52.335
5831	ENSG00000099810	MTAP	1.2	0.0001701	0.0013982	19.339	1.422	17.889	20.732	17.126	0.477	16.624	17.573
5838	ENSG00000240409	MTATP8P1	1.5	0.0444274	0.1159033	17.894	4.672	13.373	22.703	12.377	0.684	11.960	13.166
5848	ENSG00000168502	MTCL1	-1.1	0.0019033	0.0097874	10.065	0.381	9.811	10.504	11.675	0.755	11.011	12.497
5856	ENSG00000237973	MTCO1P12	1.1	1.266E-06	2.31E-05	2544.258	19.169	2527.244	2565.027	2268.701	21.189	2249.293	2291.307
5870	ENSG00000122085	MTERF4	-1.1	0.0052513	0.0219082	9.069	0.382	8.666	9.425	10.566	0.702	9.824	11.220
5903	ENSG00000103707	MTFMT	1.2	0.0019223	0.0098604	15.467	0.618	14.799	16.018	13.296	0.716	12.534	13.956

	A	B	C	D	E	F	G	H	I	J	K	L	M
5907	ENSG00000066855	MTRF1	-1.1	0.0224305	0.0689133	23.541	0.313	23.267	23.881	26.422	1.085	25.497	27.616
5908	ENSG00000146410	MTRF2	-1.1	0.1213348	0.2449142	9.392	0.768	8.557	10.070	10.766	0.493	10.341	11.307
5910	ENSG00000120254	MTHFD1L	1.1	0.0067134	0.0266097	53.038	1.732	51.838	55.024	49.463	3.169	45.993	52.206
5933	ENSG00000065911	MTHFD2	1.3	2.02E-12	2.081E-10	148.591	4.679	143.522	152.745	114.263	3.707	110.145	117.335
5936	ENSG00000181260	MTHFD2P7	1.4	0.0161459	0.0535346	5.802	0.228	5.636	6.062	4.160	0.580	3.580	4.740
5939	ENSG00000136371	MTHFS	1.4	0.0126093	0.043908	5.685	0.383	5.244	5.930	4.299	0.268	3.994	4.497
5940	ENSG00000085760	MTIF2	-1.1	0.1244881	0.2496404	51.939	1.690	50.935	53.890	55.867	1.761	54.751	57.896
5942	ENSG00000171100	MTM1	-1.2	0.0051813	0.0217019	10.178	0.461	9.683	10.595	12.403	0.851	11.833	13.381
5955	ENSG00000063601	MTMR1	1.2	0.0009642	0.0056897	11.798	0.369	11.535	12.220	10.326	0.052	10.267	10.364
5956	ENSG00000166912	MTMR10	1.1	0.0646014	0.1541093	12.506	0.385	12.107	12.876	11.842	0.622	11.246	12.488
5963	ENSG00000150712	MTMR12	1.1	0.0193822	0.061457	34.965	1.748	32.964	36.196	32.807	1.535	31.703	34.561
5968	ENSG00000100330	MTMR3	-1.2	0.0003826	0.0026965	13.213	0.171	13.016	13.329	15.620	1.005	14.851	16.756
5973	ENSG00000108389	MTMR4	-1.1	0.0367161	0.1003684	17.629	0.275	17.314	17.816	19.428	0.611	18.761	19.959
5976	ENSG00000139505	MTMR6	1.1	0.0052439	0.0218934	14.217	0.379	13.831	14.588	12.646	1.137	11.421	13.667
5978	ENSG00000104643	MTMR9	1.2	4.034E-05	0.0004294	19.887	0.344	19.579	20.258	17.420	0.517	17.036	18.008
5984	ENSG00000225972	MTND1P23	1.2	0.0006008	0.0038845	148.928	3.660	144.980	152.209	124.782	4.638	119.481	128.092
5993	ENSG00000225630	MTND2P28	1.2	5.937E-05	0.0005899	1355.161	46.501	1316.011	1406.561	1149.167	27.635	1117.289	1166.357
6001	ENSG00000247627	MTND4P12	1.2	0.0659968	0.1566603	22.192	3.405	19.349	25.966	19.627	3.151	16.526	22.825
6010	ENSG00000198793	MTOR	1	0.1032589	0.2182204	37.796	0.331	37.548	38.171	36.898	1.632	35.597	38.729
6022	ENSG00000120662	MTRF1	-1.2	0.0017608	0.0092141	9.860	0.262	9.693	10.162	12.506	1.278	11.321	13.860
6057	ENSG00000269028	MTRNR2L1 2	1.1	0.1118982	0.2312327	18.357	1.525	16.599	19.320	16.439	1.293	15.071	17.640
6085	ENSG00000132613	MTSS1L	-1.2	1.181E-05	0.0001535	17.885	0.765	17.196	18.708	22.797	2.058	20.566	24.622
6119	ENSG00000129422	MTUS1	1.3	0.0028292	0.013436	2.507	0.220	2.270	2.705	2.048	0.176	1.940	2.251
6125	ENSG00000132938	MTUS2	1.3	0.1134032	0.2332184	0.503	0.104	0.385	0.582	0.390	0.046	0.352	0.441
6148	ENSG00000177034	MTX3	-1.1	0.0057618	0.0236468	36.095	0.489	35.535	36.437	40.830	3.699	37.295	44.673
6170	ENSG00000181143	MUC16	1.5	0.0014439	0.0078395	0.243	0.040	0.201	0.280	0.166	0.013	0.152	0.178
6265	ENSG00000169894	MUC3A	-1.1	0.0966422	0.208145	3.828	0.284	3.585	4.141	4.326	0.406	3.919	4.730
6349	ENSG00000145113	MUC4	-1.3	0.0346795	0.0962952	0.383	0.070	0.312	0.451	0.518	0.136	0.438	0.675
6365	ENSG00000160953	MUM1	-1.4	1.133E-09	5.431E-08	10.328	0.108	10.243	10.450	14.327	0.543	13.712	14.744
6376	ENSG00000172732	MUS81	-1.1	0.0248223	0.0745948	8.258	0.413	7.863	8.687	9.595	0.894	9.018	10.625
6467	ENSG00000146085	MUT	1.1	0.0993677	0.2124073	27.042	1.627	25.284	28.494	25.787	0.060	25.730	25.849
6532	ENSG00000132781	MUTYH	-1.1	0.0991851	0.2121023	24.251	0.295	23.962	24.551	26.561	1.798	24.548	28.009
6591	ENSG00000141971	MVB12A	-1.2	0.0018609	0.0095983	11.537	0.407	11.074	11.836	14.238	0.672	13.794	15.011

	A	B	C	D	E	F	G	H	I	J	K	L	M
6593	ENSG00000196814	MVB12B	1.3	0.00144	0.0078211	4.290	0.020	4.271	4.310	3.469	0.285	3.152	3.704
6682	ENSG00000167508	MVD	1.3	2.085E-09	9.452E-08	27.636	0.712	27.200	28.458	21.136	1.226	20.017	22.447
6800	ENSG00000110921	MVK	1.4	1.393E-05	0.0001762	5.769	0.306	5.537	6.116	4.100	0.714	3.667	4.924
6877	ENSG0000013364	MVP	-1.2	0.0049499	0.0209817	6.336	0.580	5.698	6.832	7.851	0.946	7.229	8.939
6891	ENSG00000157601	MX1	1.2	0.0082888	0.0314181	2.488	0.067	2.420	2.553	2.042	0.102	1.924	2.109
6933	ENSG00000059728	MXD1	1.6	1.951E-05	0.0002329	2.861	0.571	2.278	3.420	1.790	0.228	1.551	2.005
6983	ENSG00000213347	MXD3	-1.3	0.002042	0.0103215	3.650	0.356	3.239	3.859	4.942	0.439	4.476	5.348
7002	ENSG00000123933	MXD4	-1.2	0.0006342	0.0040556	7.735	0.677	7.114	8.457	9.604	0.676	8.955	10.304
7026	ENSG00000119950	MXI1	1.2	0.002789	0.0133059	13.319	0.701	12.547	13.918	11.578	0.776	10.686	12.099
7041	ENSG00000182534	MXRA7	1.2	0.0021868	0.010865	8.691	0.136	8.586	8.844	7.689	0.354	7.316	8.019
7213	ENSG00000179820	MYADM	1.4	2.72E-10	1.587E-08	74.806	6.630	67.173	79.134	55.984	0.665	55.220	56.429
7260	ENSG00000118513	MYB	-1.5	0.0001018	0.0009171	2.463	0.473	2.016	2.959	3.786	0.216	3.585	4.015
7275	ENSG00000132382	MYBBP1A	-1.1	0.0020158	0.0102172	34.513	0.724	33.870	35.297	39.318	1.862	37.504	41.224
7282	ENSG00000086967	MYBPC2	1.2	0.0799044	0.1810831	4.049	0.618	3.345	4.500	3.466	0.378	3.141	3.880
7306	ENSG00000136997	MYC	1.3	1.63E-07	4.179E-06	44.472	3.145	41.228	47.507	34.585	2.662	32.833	37.648
7335	ENSG00000214114	MYCBP	-1.2	0.0005349	0.0035352	13.468	1.104	12.437	14.633	17.079	0.522	16.557	17.601
7363	ENSG00000005810	MYCBP2	-1.2	3.557E-07	8.074E-06	14.867	0.754	14.240	15.704	18.743	1.168	17.395	19.451
7371	ENSG00000116990	MYCL	-1.1	0.0221709	0.0682397	17.466	0.143	17.351	17.626	19.702	1.036	18.657	20.728
7407	ENSG00000134323	MYCN	1.1	0.0004415	0.0030182	81.278	3.852	76.830	83.522	72.868	2.793	70.231	75.795
7690	ENSG00000172936	MYD88	1.1	0.1004899	0.2138749	18.010	1.222	16.630	18.951	17.022	0.693	16.312	17.697
7770	ENSG00000074842	MYDGF	-1.1	0.0337634	0.0944026	43.543	1.638	41.819	45.079	49.567	4.611	44.702	53.873
7818	ENSG00000104177	MYEF2	1.1	0.0241159	0.0729123	39.115	0.795	38.202	39.653	37.153	2.320	34.755	39.388
8279	ENSG00000133026	MYH10	1.1	0.0493068	0.125729	188.974	13.858	173.041	198.221	182.751	5.142	178.036	188.234
8288	ENSG00000100345	MYH9	1.3	5.289E-10	2.769E-08	231.053	12.394	216.844	239.642	184.832	8.078	179.479	194.124
8310	ENSG00000101608	MYL12A	1.1	6.122E-05	0.0006052	163.246	5.448	157.119	167.543	148.158	4.410	144.268	152.950
8329	ENSG00000118680	MYL12B	1.1	2.673E-05	0.0003028	273.288	9.230	264.045	282.504	244.751	8.927	237.189	254.599
8394	ENSG00000092841	MYL6	1.1	0.0012505	0.0070289	207.726	3.781	204.124	211.663	195.029	3.956	192.324	199.569
8400	ENSG00000106631	MYL7	2.3	4.646E-05	0.0004833	4.336	0.862	3.342	4.864	1.924	0.325	1.602	2.253
8465	ENSG00000101335	MYL9	1.6	1.93E-14	3.27E-12	114.375	8.042	107.031	122.968	72.820	2.477	70.355	75.309
8499	ENSG00000007944	MYLIP	-1.1	0.0082424	0.0312904	35.457	0.989	34.319	36.104	40.787	2.246	39.287	43.369
8507	ENSG00000065534	MYLK	1.1	0.0635032	0.1522189	3.672	0.322	3.317	3.945	3.417	0.297	3.200	3.755
8666	ENSG00000180209	MYLPF	-1.6	0.0112745	0.0401365	2.781	0.710	1.979	3.329	4.423	0.376	4.025	4.772
8706	ENSG00000085274	MYNN	-1.1	0.1123367	0.2317861	13.511	0.128	13.416	13.656	14.807	0.666	14.039	15.232
8713	ENSG00000145555	MYO10	-1.2	2.581E-05	0.0002941	43.373	2.639	40.557	45.788	51.018	1.931	48.788	52.141
8772	ENSG00000266714	MYO15B	-1.2	0.012726	0.0442142	2.334	0.289	2.084	2.650	2.846	0.107	2.759	2.966
9022	ENSG00000041515	MYO16	1.5	0.0599296	0.1455044	0.375	0.093	0.305	0.481	0.251	0.097	0.186	0.362
9042	ENSG00000133454	MYO18B	1.6	0.0037525	0.0168525	0.722	0.127	0.599	0.852	0.458	0.102	0.395	0.576
9054	ENSG00000197879	MYO1C	1.2	6.511E-08	1.866E-06	39.929	1.937	37.708	41.267	32.818	2.168	31.300	35.301
9136	ENSG00000157483	MYO1E	-1.2	4.694E-05	0.0004864	21.852	1.648	20.105	23.379	26.245	1.000	25.273	27.270
9179	ENSG00000095777	MYO3A	-1.4	0.0001743	0.0014279	1.780	0.334	1.587	2.165	2.635	0.031	2.617	2.670
9208	ENSG00000197535	MYO5A	1.1	0.0216793	0.0671543	17.274	0.211	17.063	17.484	16.336	0.606	15.638	16.728
9239	ENSG00000128833	MYO5C	1.2	8.316E-05	0.0007771	11.491	0.375	11.198	11.913	9.874	0.258	9.684	10.168
9257	ENSG00000196586	MYO6	1.1	0.0003901	0.0027413	37.875	1.838	36.241	39.865	34.345	1.613	33.111	36.170

	A	B	C	D	E	F	G	H	I	J	K	L	M
9263	ENSG00000137474	MYO7A	-1.4	0.012041	0.0423818	0.419	0.006	0.411	0.422	0.613	0.042	0.566	0.647
9324	ENSG00000066933	MYO9A	-1.1	0.1182788	0.2403451	7.522	0.330	7.246	7.888	8.161	0.544	7.576	8.652
9327	ENSG00000099331	MYO9B	-1.1	0.0335417	0.0939222	18.488	0.343	18.148	18.834	20.469	1.655	18.562	21.523
9387	ENSG00000141052	MYOCD	1.7	0.0028321	0.0134434	0.634	0.058	0.588	0.699	0.383	0.029	0.350	0.405
9411	ENSG00000138119	MYOF	2	0.0020446	0.0103226	5.403	1.803	3.956	7.423	2.773	0.328	2.566	3.151
9488	ENSG00000101605	MYOM1	1.3	0.0561915	0.13876	1.186	0.096	1.088	1.280	0.952	0.075	0.904	1.039
9503	ENSG00000176182	MYPOP	-1.3	0.0266842	0.07875	3.527	0.095	3.437	3.626	4.773	0.677	4.273	5.544
9594	ENSG00000170011	MYRIP	1.6	0.0001012	0.0009133	2.840	0.572	2.233	3.369	1.851	0.245	1.613	2.103
9603	ENSG00000196132	MYT1	-1.7	8.337E-05	0.0007782	0.812	0.143	0.660	0.943	1.449	0.064	1.412	1.523
9630	ENSG00000204899	MZT1	-1.1	0.0574837	0.1410891	68.894	5.310	63.620	74.240	78.361	4.812	75.444	83.915
9743	ENSG00000078177	N4BP2	1.1	0.0483801	0.1238276	27.067	0.638	26.343	27.547	25.950	0.113	25.881	26.081
9759	ENSG00000139597	N4BP2L1	1.4	9.293E-05	0.0008519	4.520	0.229	4.293	4.750	3.341	0.311	3.002	3.612
9787	ENSG00000244754	N4BP2L2	1.1	0.0004078	0.0028335	16.507	0.324	16.140	16.751	14.887	0.470	14.614	15.429
9817	ENSG00000156239	N6AMT1	1.1	0.0417805	0.1105269	15.893	0.479	15.387	16.338	14.685	0.465	14.167	15.067
9975	ENSG00000102030	NAA10	-1.2	0.0162024	0.0536629	9.569	0.224	9.316	9.740	11.263	0.400	11.016	11.724
10003	ENSG00000164134	NAA15	-1.1	0.0794023	0.1802592	55.092	3.347	51.390	57.906	59.998	3.713	55.711	62.170
10070	ENSG00000172766	NAA16	1.1	0.0650195	0.1547967	18.860	0.697	18.055	19.274	17.840	1.182	17.061	19.200
10123	ENSG00000139977	NAA30	-1.1	0.0531875	0.1331498	17.556	0.847	16.583	18.124	19.325	0.875	18.345	20.028
10175	ENSG00000135040	NAA35	-1.1	0.0088689	0.0330685	34.478	2.504	32.326	37.225	39.324	2.465	37.321	42.077
10261	ENSG00000121579	NAA50	1.1	0.0030562	0.0143107	104.735	1.496	103.567	106.421	98.628	1.444	97.178	100.066
10427	ENSG00000122390	NAA60	1.1	0.0551922	0.1370325	15.092	0.932	14.029	15.772	14.101	0.408	13.673	14.486
10432	ENSG00000077616	NAALAD2	1.2	0.0624767	0.1502658	3.131	0.378	2.748	3.503	2.719	0.299	2.508	3.061
10616	ENSG00000138386	NAB1	1.5	4.22E-11	3.022E-09	49.177	2.796	46.375	51.967	33.630	2.463	32.096	36.471
10621	ENSG00000166886	NAB2	1.3	6.155E-06	8.816E-05	73.813	7.355	65.336	78.502	59.131	3.405	55.258	61.654
10622	ENSG00000139579	NABP2	-1.3	1.767E-05	0.0002137	28.428	2.040	26.111	29.955	36.502	1.891	34.340	37.847
10624	ENSG00000196531	NACA	-1.1	0.0002279	0.0017726	185.497	3.572	182.910	189.572	208.358	5.800	202.182	213.689
10626	ENSG00000253506	NACA2	-1.1	0.0831664	0.1870221	55.626	2.829	53.428	58.817	62.641	3.345	58.928	65.418
10627	ENSG00000136274	NACAD	-1.2	0.0384077	0.1036029	2.662	0.223	2.432	2.878	3.311	0.222	3.055	3.443
10628	ENSG00000008130	NADK	-1.1	0.0016179	0.0086133	31.379	0.759	30.635	32.153	36.045	1.731	34.786	38.019
10629	ENSG00000152620	NADK2	1.2	3.628E-05	0.0003908	17.082	0.267	16.774	17.262	14.073	0.555	13.631	14.695
10632	ENSG00000172890	NADSYN1	1.2	1.69E-05	0.0002058	7.547	0.202	7.320	7.708	6.292	0.428	5.890	6.741
10633	ENSG00000159593	NAE1	1	0.0840009	0.1884227	99.528	0.458	99.026	99.922	97.120	1.904	95.899	99.314
10636	ENSG00000198951	NAGA	1.1	0.0079488	0.0304571	27.806	1.242	26.374	28.583	25.260	0.849	24.308	25.939
10637	ENSG00000108784	NAGLU	1.1	0.0497404	0.1264786	18.158	1.079	17.061	19.217	16.615	0.390	16.333	17.060
10642	ENSG00000103174	NAGPA	1.2	0.1153381	0.2359354	2.756	0.288	2.505	3.070	2.384	0.399	2.008	2.804
10643	ENSG00000171169	NAIF1	-1.2	0.0635588	0.1522189	6.068	0.166	5.912	6.243	7.218	1.449	6.038	8.835
10644	ENSG00000237886	NALT1	-1.3	0.0105526	0.0380789	15.518	1.024	14.801	16.691	20.444	3.128	17.486	23.719
10645	ENSG00000105835	NAMPT	1.1	0.0427116	0.1123815	35.363	1.702	34.302	37.326	33.778	1.584	32.762	35.603
10646	ENSG00000176654	NANOGP1	-1.2	0.0840399	0.1884603	4.247	0.341	3.900	4.581	5.210	0.043	5.165	5.250
10647	ENSG00000170191	NANP	1.2	0.0027499	0.0131641	8.743	0.442	8.386	9.237	7.296	0.245	7.130	7.578
10649	ENSG00000186462	NAP1L2	1.1	0.0697425	0.1634121	34.936	2.083	32.945	37.100	32.889	0.846	32.016	33.705
10650	ENSG00000186310	NAP1L3	1.1	0.0094498	0.0347821	138.460	4.561	135.199	143.672	129.474	7.197	122.737	137.057

	A	B	C	D	E	F	G	H	I	J	K	L	M
10651	ENSG00000205531	NAP1L4	-1	0.0956307	0.2068553	90.516	0.606	89.836	91.002	96.589	1.229	95.494	97.918
10652	ENSG00000177432	NAP1L5	1.5	0.0010478	0.0061019	4.980	0.858	4.071	5.777	3.482	0.126	3.346	3.595
10653	ENSG00000204118	NAP1L6	-1.2	0.0380105	0.102877	7.630	0.951	6.560	8.379	9.521	1.389	8.282	11.022
10655	ENSG00000105402	NAPA	1.1	0.0106982	0.0384813	13.716	0.520	13.149	14.169	12.388	0.481	11.861	12.803
10658	ENSG00000125814	NAPB	-1.1	0.070925	0.1653646	9.028	0.612	8.327	9.450	10.253	0.503	9.853	10.817
10659	ENSG00000147813	NAPRT	-1.2	0.0004143	0.0028694	16.054	0.597	15.690	16.742	20.350	0.968	19.267	21.131
10660	ENSG00000141562	NARF	-1.4	2.503E-10	1.47E-08	15.621	0.741	14.789	16.207	22.112	1.515	20.814	23.777
10661	ENSG00000103245	NARFL	-1.2	0.0043456	0.0189672	5.083	0.392	4.650	5.413	6.208	0.194	6.020	6.407
10662	ENSG00000134440	NARS	1.1	0.0028979	0.0136715	236.859	8.120	229.326	245.461	223.467	7.925	215.649	231.495
10663	ENSG00000090971	NAT14	-1.1	0.0187861	0.0599942	32.871	0.607	32.171	33.242	37.800	4.617	34.032	42.950
10665	ENSG00000167011	NAT16	1.6	0.0082229	0.0312527	1.570	0.276	1.373	1.886	1.030	0.094	0.923	1.091
10666	ENSG00000243477	NAT6	-1.2	0.063961	0.152973	7.223	0.665	6.685	7.967	8.621	0.218	8.375	8.792
10668	ENSG00000109065	NAT9	-1.2	9.397E-05	0.0008596	24.437	0.704	23.775	25.177	29.907	0.341	29.572	30.253
10669	ENSG00000134369	NAV1	-1.1	0.062705	0.1507505	7.992	0.584	7.325	8.416	8.810	0.831	8.252	9.766
10671	ENSG00000166833	NAV2	1.1	0.0105445	0.0380579	28.503	1.826	26.746	30.392	26.888	0.996	25.739	27.499
10673	ENSG00000151779	NBAS	-1.2	8.731E-06	0.0001187	24.183	0.663	23.792	24.948	28.857	0.464	28.411	29.338
10675	ENSG00000260455	NBAT1	-1.4	0.04163	0.1102045	1.781	0.443	1.447	2.283	2.622	0.815	1.935	3.522
10676	ENSG00000172915	NBEA	-1.2	6.978E-07	1.42E-05	27.007	1.038	26.290	28.197	33.117	1.356	31.582	34.155
10678	ENSG00000160796	NBEAL2	-1.3	6.532E-07	1.344E-05	12.367	0.733	11.706	13.155	16.341	1.610	15.041	18.142
10679	ENSG00000104320	NBN	1.1	0.0322053	0.0911669	26.653	0.281	26.375	26.936	25.063	1.590	23.562	26.730
10680	ENSG00000263956	NBPF11	-1.1	0.0511849	0.1293234	11.090	0.740	10.261	11.684	12.581	0.855	11.594	13.123
10681	ENSG00000268043	NBPF12	-1.1	0.008743	0.0327004	10.093	0.287	9.766	10.301	11.772	0.747	11.135	12.594
10683	ENSG00000270629	NBPF14	1.2	0.0345556	0.0960142	2.467	0.180	2.260	2.591	2.167	0.114	2.065	2.291
10685	ENSG00000266338	NBPF15	1.4	3.152E-06	4.985E-05	9.984	0.512	9.556	10.551	7.402	0.776	6.515	7.951
10686	ENSG00000272150	NBPF25P	1.2	0.0929124	0.2025169	3.074	0.287	2.746	3.277	2.638	0.285	2.320	2.867
10687	ENSG00000227001	NBPF2P	1.4	0.0195074	0.0617729	8.592	0.544	8.041	9.128	6.151	0.965	5.169	7.098
10690	ENSG00000142794	NBPF3	1.1	0.0481391	0.1232853	9.213	0.290	8.911	9.489	8.530	0.178	8.338	8.690
10692	ENSG00000269713	NBPF9	1.2	0.010068	0.0366507	3.062	0.278	2.876	3.382	2.571	0.209	2.403	2.805
10693	ENSG00000188554	NBR1	-1.2	2.509E-08	8.287E-07	32.647	0.935	31.889	33.692	40.982	0.898	39.969	41.682
10695	ENSG00000198496	NBR2	1.2	0.1204444	0.2435289	4.968	0.703	4.194	5.565	4.193	1.112	2.910	4.890
10696	ENSG00000149294	NCAM1	-1.1	0.1240887	0.2491349	1.268	0.052	1.218	1.322	1.472	0.174	1.297	1.646
10697	ENSG00000130287	NCAN	-1.4	0.0083991	0.0317228	0.937	0.136	0.834	1.090	1.361	0.120	1.246	1.484
10699	ENSG00000010292	NCAPD2	-1.2	1.771E-10	1.089E-08	145.550	2.892	142.228	147.504	183.546	4.617	178.258	186.777
10702	ENSG00000151503	NCAPD3	-1.1	0.0594246	0.1445697	33.475	1.544	31.991	35.073	36.206	0.663	35.442	36.640
10704	ENSG000000109805	NCAPG	-1.2	2.294E-06	3.807E-05	58.722	3.997	56.358	63.336	71.501	1.803	70.302	73.575
10705	ENSG00000146918	NCAPG2	-1.3	4.10E-11	2.974E-09	74.226	0.979	73.527	75.345	96.219	3.110	92.806	98.895
10706	ENSG00000121152	NCAPH	-1.1	0.0043397	0.018946	50.546	1.587	49.495	52.371	57.163	1.637	55.632	58.889
10707	ENSG00000114503	NCBP2	-1.1	0.0563066	0.1389833	66.962	1.483	65.998	68.670	72.289	2.178	70.544	74.730
10709	ENSG00000270170	NBP2-AS2	-1.3	0.0015717	0.0084069	42.443	2.315	40.395	44.955	54.411	7.380	47.085	61.844
10710	ENSG00000188505	NCCRP1	-1.3	0.1018056	0.2159315	2.322	0.272	2.017	2.538	3.022	0.502	2.447	3.376
10712	ENSG00000071051	NCK2	-1.1	0.0137687	0.0471398	47.860	3.338	44.098	50.466	53.813	1.553	52.355	55.446
10714	ENSG00000167566	NCKAP5L	-1.1	0.0534132	0.1335568	7.707	0.344	7.366	8.054	8.797	1.009	8.120	9.956

	A	B	C	D	E	F	G	H	I	J	K	L	M
10716	ENSG00000140396	NCOA2	1.1	0.0679	0.1600994	15.661	0.552	15.035	16.078	14.935	0.661	14.199	15.475
10718	ENSG00000124160	NCOA5	1.2	0.0145251	0.0492405	10.655	0.871	9.901	11.608	9.185	0.700	8.549	9.935
10720	ENSG00000111912	NCOA7	1.2	0.0017264	0.009079	4.438	0.146	4.344	4.607	3.626	0.469	3.222	4.140
10721	ENSG00000141027	NCOR1	-1.1	0.0341729	0.0953424	31.961	0.552	31.463	32.555	34.575	0.528	34.066	35.120
10726	ENSG00000196498	NCOR2	-1.2	0.0005231	0.0034739	25.975	0.432	25.525	26.387	30.791	3.128	27.882	34.100
10727	ENSG00000189430	NCR1	-3.7	0.0006562	0.0041674	0.235	0.137	0.156	0.394	0.916	0.497	0.529	1.477
10728	ENSG00000188211	NCR3LG1	2.2	7.64E-11	5.09E-09	4.727	0.784	4.174	5.623	2.199	0.306	1.996	2.551
10729	ENSG00000107130	NCS1	1.1	0.0039065	0.0174422	25.711	2.104	23.365	27.431	23.117	2.030	21.898	25.460
10730	ENSG00000162736	NCSTN	1.2	4.101E-05	0.0004349	42.363	2.420	39.678	44.375	36.343	1.826	35.016	38.425
10732	ENSG00000080986	NDC80	-1.2	2.317E-05	0.0002697	39.136	2.238	37.122	41.546	49.985	5.644	44.735	55.953
10733	ENSG00000072864	NDE1	-1.1	0.0083242	0.0315141	15.308	0.268	15.136	15.616	17.715	1.226	16.341	18.699
10734	ENSG00000166579	NDEL1	-1.1	0.1132714	0.2330325	9.762	0.264	9.458	9.930	10.716	0.460	10.405	11.245
10735	ENSG00000131507	NDFIP1	1.1	0.001532	0.0082438	33.006	0.414	32.549	33.354	30.183	0.778	29.492	31.025
10736	ENSG00000173376	NDNF	-1.4	0.0060098	0.0243983	2.139	0.388	1.703	2.450	3.087	0.419	2.683	3.520
10737	ENSG00000104419	NDRG1	1.9	3.148E-10	1.804E-08	2.961	0.103	2.886	3.079	1.584	0.076	1.534	1.672
10740	ENSG00000165795	NDRG2	-1.2	0.0013482	0.00743	9.069	0.615	8.505	9.725	10.908	0.461	10.433	11.354
10741	ENSG00000101079	NDRG3	-1.1	0.0973815	0.2092774	35.697	0.244	35.422	35.889	39.008	1.519	37.263	40.035
10743	ENSG00000164100	NDST3	1.8	0.0036954	0.0166446	0.514	0.062	0.442	0.553	0.295	0.013	0.286	0.310
10744	ENSG00000125356	NDUFA1	-1.1	0.0972605	0.2091047	201.246	8.425	191.522	206.362	218.358	11.464	208.464	230.922
10745	ENSG00000184752	NDUFA12	1.1	0.0643039	0.1535467	70.754	0.495	70.347	71.306	66.863	6.712	59.113	70.801
10748	ENSG00000170906	NDUFA3	1.1	0.0768759	0.1757981	41.439	1.792	39.636	43.221	39.232	1.208	38.300	40.597
10750	ENSG00000189043	NDUFA4	-1.1	0.042712	0.1123815	161.306	3.921	157.029	164.732	174.373	6.220	167.567	179.763
10751	ENSG00000128609	NDUFA5	1.1	0.0553803	0.1373785	24.022	0.137	23.865	24.115	22.481	1.485	20.790	23.574
10752	ENSG00000164182	NDUFAF2	1.1	0.0164382	0.054237	54.287	3.279	52.299	58.071	48.358	4.427	43.906	52.759
10754	ENSG00000178057	NDUFAF3	-1.1	0.0641842	0.1533042	17.021	0.969	15.903	17.628	19.361	0.982	18.503	20.432
10755	ENSG00000156170	NDUFAF6	1.2	0.0144498	0.0490153	8.330	0.368	7.907	8.574	7.393	0.563	6.885	7.998
10756	ENSG00000003509	NDUFAF7	1.2	0.000164	0.00136	34.808	1.554	33.443	36.500	29.656	2.654	27.245	32.500
10757	ENSG00000224877	NDUFAF8	-1.2	0.0041251	0.0182211	25.946	1.494	24.250	27.069	32.329	4.793	29.229	37.849
10758	ENSG00000183648	NDUFB1	-1.1	0.0121706	0.0427766	41.119	2.232	38.579	42.767	46.749	0.974	46.048	47.861
10760	ENSG00000119013	NDUFB3	-1.1	0.1012524	0.214961	71.803	2.619	69.056	74.272	79.075	3.470	75.505	82.437
10761	ENSG00000151366	NDUFC2	1.1	0.0257044	0.0765791	28.918	1.745	27.130	30.617	26.346	2.107	24.297	28.507
10762	ENSG00000158864	NDUFS2	-1.1	0.1010405	0.2146047	96.200	1.263	95.114	97.586	103.396	4.017	99.834	107.750
10763	ENSG00000110717	NDUFS8	-1.1	0.0128244	0.0445012	35.204	0.087	35.114	35.287	39.283	0.813	38.595	40.180
10764	ENSG00000178127	NDUFV2	-1.6	0.0003973	0.0027834	2.259	0.402	1.797	2.528	3.787	0.433	3.288	4.063
10765	ENSG00000245532	NEAT1	1.5	0.00287	0.0135738	7.152	1.649	5.942	9.030	4.767	0.529	4.222	5.278
10768	ENSG00000183091	NEB	-1.4	0.0001868	0.0015111	0.480	0.058	0.435	0.546	0.684	0.041	0.660	0.732
10770	ENSG00000078114	NEBL	1.4	8.073E-10	4.076E-08	9.614	0.474	9.067	9.922	7.025	0.138	6.907	7.177
10771	ENSG00000123119	NECAB1	2.1	1.37E-14	2.46E-12	14.051	0.827	13.136	14.746	6.743	0.225	6.492	6.928
10772	ENSG00000110400	NECTIN1	1.1	0.009899	0.0361525	48.252	1.411	46.780	49.592	45.178	3.830	42.561	49.574
10773	ENSG00000130202	NECTIN2	1.1	0.0010747	0.0062399	94.466	2.725	91.593	97.015	86.689	5.499	82.107	92.788
10774	ENSG00000177707	NECTIN3	1.1	0.0419699	0.1109294	20.990	3.344	18.238	24.711	18.716	0.322	18.412	19.053
10775	ENSG00000143217	NECTIN4	-1.5	0.0204665	0.0642326	1.198	0.235	0.936	1.391	1.793	0.565	1.197	2.322
10776	ENSG00000069869	NEDD4	1.9	2.30E-11	1.768E-09	5.803	0.710	5.355	6.622	3.130	0.080	3.056	3.215

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10777	ENSG00000049759	NEDD4L	1.1	0.0527572	0.1324058	16.993	0.617	16.431	17.653	16.409	0.251	16.120	16.566
10778	ENSG00000129559	NEDD8	-1.1	0.1192868	0.2417902	31.841	0.814	30.983	32.603	34.587	2.098	32.477	36.673
10780	ENSG00000111859	NEDD9	1.5	0.0063874	0.0255755	0.791	0.059	0.741	0.856	0.540	0.261	0.285	0.806
10781	ENSG00000100285	NEFH	-1.2	0.0854168	0.1905625	3.056	0.759	2.186	3.584	3.801	0.746	3.000	4.475
10782	ENSG00000277586	NEFL	-1.3	0.0002963	0.0021894	9.914	0.836	9.038	10.703	12.656	0.887	11.835	13.596
10783	ENSG00000104722	NEFM	-1.1	0.0939819	0.2043605	15.419	0.579	15.040	16.085	16.947	0.555	16.306	17.278
10785	ENSG00000140398	NEIL1	-1.2	0.0156937	0.0522908	2.711	0.436	2.342	3.192	3.404	0.147	3.271	3.562
10786	ENSG00000154328	NEIL2	1.1	0.0175775	0.0569299	17.806	1.286	16.674	19.204	15.865	1.836	14.324	17.896
10787	ENSG00000137601	NEK1	1.2	0.0028783	0.0136056	11.180	0.724	10.403	11.836	9.789	1.069	8.660	10.786
10788	ENSG00000114670	NEK11	-1.3	0.0662608	0.1571987	0.839	0.140	0.689	0.966	1.118	0.145	0.966	1.256
10789	ENSG00000117650	NEK2	-1.2	6.831E-06	9.619E-05	46.152	2.340	44.642	48.847	58.300	3.361	55.282	61.922
10790	ENSG00000119408	NEK6	1.2	0.0001661	0.0013734	14.704	0.212	14.467	14.878	12.291	0.763	11.457	12.954
10791	ENSG00000151414	NEK7	-1.1	0.0160399	0.0532869	13.748	0.821	12.894	14.532	15.829	0.868	14.856	16.521
10792	ENSG00000160602	NEK8	1.2	0.001708	0.009007	8.801	0.368	8.460	9.192	7.364	0.340	7.080	7.740
10793	ENSG00000185049	NELFA	-1.2	0.0012149	0.0068676	15.942	1.190	14.628	16.944	19.168	1.503	17.743	20.739
10794	ENSG00000188986	NELFB	-1.2	7.031E-05	0.0006776	73.432	5.206	69.828	79.401	87.538	3.466	84.742	91.416
10795	ENSG00000101158	NELFCD	-1.2	0.0001061	0.0009471	17.254	0.262	16.961	17.465	20.643	0.683	20.033	21.381
10796	ENSG00000165525	NEMF	1.1	0.0017191	0.0090547	22.864	0.664	22.258	23.573	20.881	0.556	20.375	21.476
10798	ENSG00000166881	NEMP1	1.2	1.223E-07	3.248E-06	91.240	2.526	88.721	93.774	77.997	2.338	76.575	80.695
10799	ENSG00000189362	NEMP2	1.3	0.0001224	0.0010669	4.868	0.117	4.798	5.004	3.681	0.410	3.276	4.096
10800	ENSG00000067141	NEO1	1.1	6.057E-05	0.0006004	34.825	0.628	34.105	35.259	31.175	1.141	29.894	32.081
10801	ENSG00000163608	NEPRO	-1.1	0.0356035	0.0980743	23.758	0.592	23.387	24.441	26.335	1.221	25.108	27.549
10803	ENSG00000132688	NES	1.2	6.728E-07	1.376E-05	232.101	10.183	220.431	239.180	202.808	3.797	198.445	205.362
10804	ENSG00000173848	NET1	-1.2	2.986E-06	4.769E-05	44.323	2.780	41.544	47.105	54.743	1.272	53.324	55.779
10805	ENSG00000166342	NETO1	1.4	7.811E-05	0.0007393	3.872	0.102	3.755	3.940	2.790	0.178	2.593	2.938
10809	ENSG00000171208	NETO2	1.5	1.538E-06	2.723E-05	3.603	0.312	3.286	3.910	2.451	0.131	2.300	2.533
10810	ENSG00000204386	NEU1	1.6	4.41E-15	8.87E-13	36.751	3.041	34.265	40.141	22.804	0.469	22.351	23.288
10811	ENSG00000162139	NEU3	-1.1	0.0440677	0.1153092	13.497	0.111	13.424	13.625	14.986	0.879	13.976	15.586
10812	ENSG00000107954	NEURL1	1.5	0.0041502	0.0182984	1.373	0.178	1.261	1.578	0.921	0.033	0.883	0.942
10813	ENSG00000214357	NEURL1B	-1.2	0.0010884	0.0063013	6.805	0.920	5.861	7.700	8.628	0.796	7.808	9.398
10814	ENSG00000215041	NEURL4	-1.1	0.0108682	0.038985	11.116	0.289	10.792	11.349	12.827	0.748	12.334	13.688
10815	ENSG00000162614	NEXN	1.2	0.0680497	0.1603628	6.580	0.750	5.858	7.355	5.523	0.675	5.112	6.302
10816	ENSG00000163531	NFASC	-1.5	2.835E-07	6.688E-06	0.952	0.081	0.861	1.016	1.475	0.051	1.420	1.522
10817	ENSG00000102908	NFAT5	1.2	2.063E-05	0.000244	13.370	1.501	11.655	14.439	10.985	0.689	10.327	11.702
10818	ENSG00000100968	NFATC4	-1.3	1.211E-07	3.225E-06	14.109	0.068	14.044	14.180	18.327	0.680	17.684	19.038
10819	ENSG00000123405	NFE2	-1.5	0.0168208	0.0551872	1.499	0.209	1.267	1.674	2.316	0.425	1.960	2.787
10820	ENSG00000082641	NFE2L1	1.4	1.17E-13	1.59E-11	140.262	8.118	130.891	145.136	105.030	2.950	101.627	106.870
10821	ENSG00000116044	NFE2L2	1.4	6.286E-10	3.242E-08	23.092	0.934	22.299	24.121	17.036	0.470	16.753	17.578
10822	ENSG00000050344	NFE2L3	1.2	1.69E-06	2.933E-05	87.037	4.854	81.670	91.121	75.633	0.702	74.822	76.066
10823	ENSG00000147862	NFIB	1.3	2.697E-05	0.0003051	4.003	0.196	3.843	4.222	3.158	0.190	2.944	3.308
10824	ENSG00000141905	NFIC	-1.3	0.0946782	0.205531	0.592	0.062	0.522	0.638	0.760	0.105	0.696	0.881
10825	ENSG00000109320	NFKB1	1.5	4.831E-08	1.454E-06	6.882	0.261	6.654	7.167	4.575	0.427	4.161	5.014
10827	ENSG00000077150	NFKB2	-1.1	0.0394291	0.1057844	15.790	0.730	15.048	16.507	18.132	2.220	16.174	20.544

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10828	ENSG00000100906	NFKBIA	-1.2	0.0052843	0.0220255	11.610	0.945	10.584	12.444	14.475	1.566	13.222	16.230
10829	ENSG00000104825	NFKBIB	1.1	0.0209843	0.0655174	21.653	1.181	20.915	23.014	19.331	0.698	18.776	20.114
10834	ENSG00000146232	NFKBIE	1.3	4.136E-05	0.0004383	17.710	2.169	16.278	20.206	13.497	0.543	13.117	14.119
10835	ENSG00000204498	NFKBIL1	-1.2	0.0421059	0.1112317	12.127	0.935	11.460	13.196	14.848	2.321	12.664	17.285
10836	ENSG00000170448	NFXL1	-1.1	0.0573677	0.1408829	27.078	0.907	26.045	27.744	29.826	0.298	29.613	30.166
10837	ENSG00000120837	NFYB	1.1	0.118215	0.240309	50.870	0.849	49.915	51.541	49.062	2.816	46.532	52.096
10838	ENSG00000272145	NFYC-AS1	-1.2	0.0407091	0.1084613	8.662	0.384	8.390	9.102	10.751	0.561	10.291	11.376
10841	ENSG00000129460	NGDN	-1.1	0.0065701	0.0261643	18.809	0.182	18.599	18.920	21.592	0.401	21.156	21.946
10842	ENSG00000064300	NGFR	1.1	0.0382539	0.1032805	14.051	0.100	13.946	14.145	12.687	1.569	11.526	14.472
10843	ENSG00000151092	NGLY1	1.2	9.609E-05	0.0008752	11.283	0.578	10.736	11.889	9.570	0.480	9.017	9.882
10846	ENSG00000182768	NGRN	1.2	5.482E-05	0.0005519	17.087	0.458	16.595	17.501	14.440	1.197	13.625	15.815
10850	ENSG00000177551	NHLH2	-1.5	0.000189	0.0015261	2.199	0.159	2.055	2.369	3.271	0.428	2.821	3.674
10851	ENSG00000196865	NHLRC2	-1.2	5.007E-06	7.441E-05	13.475	0.336	13.116	13.783	16.983	1.121	15.761	17.963
10853	ENSG00000188811	NHLRC3	1.2	0.0001098	0.000973	20.187	0.895	19.351	21.131	17.324	0.986	16.720	18.462
10855	ENSG00000145912	NHP2	-1.1	0.1112927	0.2303063	123.215	3.090	120.951	126.736	133.259	4.171	129.639	137.820
10856	ENSG00000188158	NHS	-1.1	0.0208111	0.0650968	13.082	0.091	12.981	13.158	14.789	0.603	14.189	15.395
10857	ENSG00000135540	NHSL1	1.2	0.0008757	0.005247	5.238	0.593	4.662	5.846	4.282	0.507	3.873	4.849
10858	ENSG00000204131	NHSL2	1.3	4.968E-07	1.077E-05	7.618	0.449	7.346	8.135	6.076	0.411	5.693	6.510
10860	ENSG00000116962	NID1	1.1	0.0003316	0.0023906	58.854	2.859	55.971	61.688	53.017	1.358	51.939	54.542
10861	ENSG00000170113	NIPA1	1.1	0.0293209	0.0847051	16.070	0.163	15.910	16.237	15.145	0.265	14.894	15.423
10862	ENSG00000140157	NIPA2	1.1	0.0047713	0.020409	69.771	1.981	67.737	71.695	64.947	0.514	64.565	65.532
10863	ENSG00000104361	NIPAL2	1.7	1.836E-05	0.0002212	2.178	0.307	1.979	2.532	1.311	0.107	1.193	1.401
10864	ENSG00000164190	NIPBL	-1.1	0.0063156	0.0253478	30.793	0.898	29.810	31.570	34.190	0.873	33.182	34.703
10865	ENSG00000146729	NIPSNAP2	-1.1	0.0164041	0.054135	33.325	0.540	32.737	33.799	36.917	0.440	36.441	37.308
10866	ENSG00000136783	NIPSNAP3 A	1.3	0.0022607	0.0111764	15.303	0.234	15.136	15.571	12.460	2.138	10.628	14.809
10867	ENSG00000010322	NISCH	1.1	0.0226243	0.0694202	29.680	3.018	26.206	31.657	27.858	1.143	26.834	29.091
10868	ENSG00000084628	NKAIN1	-1.1	0.0119163	0.0419789	29.938	1.587	28.125	31.074	34.156	1.923	32.182	36.024
10870	ENSG00000197885	NKIRAS1	1.1	0.1208323	0.2441329	6.467	0.622	6.083	7.185	5.801	0.843	4.999	6.679
10872	ENSG00000186416	NKRF	-1.2	0.005881	0.0240313	9.297	0.898	8.555	10.295	11.247	0.511	10.666	11.629
10873	ENSG00000073536	NLE1	-1.1	0.0428046	0.1125727	19.521	0.338	19.228	19.891	21.684	1.759	20.254	23.647
10875	ENSG00000169760	NLGN1	-1.3	0.0019411	0.0099362	6.947	1.011	6.056	8.046	8.987	1.125	7.820	10.065
10876	ENSG00000169992	NLGN2	-1.1	0.0029038	0.0136953	42.839	1.572	41.154	44.266	48.652	1.334	47.625	50.160
10877	ENSG00000146938	NLGN4X	1.1	0.0795903	0.1805649	83.254	4.473	80.119	88.377	80.700	2.640	78.072	83.353
10879	ENSG00000140853	NLRCS	2	1.415E-05	0.0001787	0.729	0.092	0.662	0.834	0.364	0.138	0.249	0.518
10880	ENSG00000022556	NLRP2	1.2	4.911E-06	7.319E-05	37.277	1.444	35.705	38.544	32.132	0.978	31.009	32.796
10882	ENSG00000169251	NMD3	-1.2	4.388E-06	6.627E-05	43.622	0.652	42.869	44.012	53.719	2.306	51.766	56.263
10885	ENSG00000123009	NME2P1	-1.3	0.1123696	0.2318138	9.957	0.512	9.536	10.527	12.926	2.627	11.144	15.943
10887	ENSG00000103024	NME3	-1.2	0.0039701	0.0176702	38.398	3.157	36.086	41.994	46.741	5.952	42.155	53.468
10888	ENSG00000172113	NME6	-1.3	0.0051272	0.0215443	3.381	0.221	3.222	3.634	4.497	0.847	3.524	5.060
10890	ENSG00000143156	NME7	1.1	0.0566105	0.1394892	9.448	1.001	8.830	10.603	8.608	0.798	8.116	9.529
10892	ENSG00000123609	NMI	1.3	0.0187592	0.059926	4.071	0.850	3.352	5.010	3.104	0.263	2.831	3.357

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10893	ENSG00000157064	NMNAT2	-1.1	0.0250683	0.075094	9.966	0.643	9.582	10.709	11.392	0.522	10.859	11.902
10894	ENSG00000153406	NMRAL1	1.2	0.0013562	0.0074669	23.162	0.935	22.099	23.856	20.113	1.909	17.909	21.289
10895	ENSG00000077009	NMRK2	1.8	6.66E-19	3.75E-16	236.271	1.417	235.399	237.906	131.966	4.398	127.261	135.975
10896	ENSG00000152465	NMT2	1.2	0.0046925	0.0201433	11.115	0.177	10.932	11.285	9.590	0.974	8.912	10.706
10897	ENSG00000053438	NNAT	-1.2	0.0039339	0.0175504	21.286	2.010	19.706	23.548	26.525	2.565	24.546	29.423
10898	ENSG00000112992	NNT	1.2	0.0012674	0.007098	13.980	1.110	12.786	14.980	12.338	0.544	11.740	12.804
10899	ENSG00000084092	NOA1	-1.3	2.092E-08	7.035E-07	35.360	1.197	33.985	36.167	46.667	0.683	46.203	47.452
10900	ENSG00000141101	NOB1	-1.3	3.483E-09	1.495E-07	68.821	2.396	66.088	70.558	90.706	2.609	87.696	92.334
10901	ENSG00000188976	NOC2L	-1.1	0.0081487	0.0310474	50.422	0.689	49.633	50.903	56.021	2.256	54.168	58.533
10903	ENSG00000184967	NOC4L	-1.2	0.0249299	0.0748252	18.141	1.691	16.383	19.756	21.520	3.132	19.518	25.129
10904	ENSG00000151014	NOCT	1.3	5.695E-06	8.324E-05	19.369	1.072	18.147	20.149	14.792	0.962	13.769	15.677
10905	ENSG00000156574	NODAL	-1.6	0.036415	0.0997667	1.137	0.226	0.880	1.308	1.852	0.283	1.559	2.125
10907	ENSG00000115761	NOL10	-1.1	0.0028038	0.0133581	27.371	0.495	27.000	27.933	31.673	0.947	30.581	32.251
10908	ENSG00000273899	NOL12	-1.3	0.0121992	0.0428415	3.317	0.432	2.921	3.778	4.392	0.435	4.053	4.882
10909	ENSG00000165271	NOL6	-1.1	0.0968651	0.2084324	28.243	1.615	26.437	29.549	30.649	1.810	28.820	32.440
10913	ENSG00000198000	NOL8	1.2	8.745E-05	0.00081	18.733	1.253	17.957	20.178	16.016	0.690	15.298	16.675
10914	ENSG00000166197	NOLC1	1.1	0.0083442	0.0315679	185.448	2.398	182.835	187.550	177.342	3.236	175.168	181.060
10915	ENSG00000147140	NONO	-1	0.1240444	0.2490754	255.122	6.391	247.944	260.194	270.433	3.034	268.098	273.863
10917	ENSG00000182117	NOP10	1.1	0.0219653	0.0678289	343.562	10.426	333.348	354.187	324.869	6.945	316.904	329.661
10918	ENSG00000249673	NOP14-AS1	-1.2	0.0413999	0.1097658	2.518	0.286	2.278	2.834	3.017	0.172	2.913	3.216
10919	ENSG00000111641	NOP2	-1.2	0.000146	0.00123	26.596	1.301	25.843	28.099	31.757	1.066	30.550	32.568
10920	ENSG00000101361	NOP56	-1.1	0.0763381	0.1747715	97.913	4.332	94.461	102.774	105.386	5.288	99.350	109.201
10921	ENSG00000055044	NOP58	1.2	2.634E-07	6.284E-06	119.681	3.754	116.943	123.960	97.834	7.369	93.434	106.342
10922	ENSG00000260032	NORAD	-1.1	3.879E-05	0.0004144	225.245	2.245	223.076	227.559	260.113	11.954	249.786	273.209
10924	ENSG00000089250	NOS1	-1.3	0.0015919	0.0084958	1.691	0.177	1.509	1.863	2.247	0.229	2.011	2.469
10926	ENSG00000164867	NOS3	1.3	0.0212881	0.0662213	3.177	0.810	2.553	4.092	2.520	0.371	2.286	2.948
10927	ENSG00000148400	NOTCH1	-1.3	6.571E-07	1.349E-05	30.493	1.806	28.681	32.294	40.262	3.973	36.593	44.482
10928	ENSG00000134250	NOTCH2	-1.1	0.0059777	0.0243032	20.016	1.247	18.639	21.069	22.434	1.091	21.628	23.676
10929	ENSG00000264343	NOTCH2NL	1.2	0.0667257	0.1580134	1.697	0.126	1.561	1.810	1.426	0.021	1.403	1.442
10930	ENSG00000074181	NOTCH3	-1.2	1.858E-05	0.0002235	36.926	0.763	36.303	37.776	45.327	4.755	41.809	50.737
10933	ENSG00000104967	NOVA2	-1.4	7.23E-07	1.461E-05	5.710	0.486	5.169	6.108	7.991	0.451	7.514	8.411
10934	ENSG00000086991	NOX4	1.5	0.0723211	0.1679943	0.397	0.119	0.318	0.533	0.260	0.060	0.192	0.306
10936	ENSG00000130751	NPAS1	1.3	0.0013888	0.0076063	10.079	0.858	9.092	10.643	7.892	0.825	7.398	8.844
10937	ENSG00000141458	NPC1	1.3	1.069E-08	3.957E-07	17.518	0.415	17.093	17.923	13.924	0.603	13.375	14.569
10938	ENSG00000119655	NPC2	1.3	4.418E-10	2.364E-08	126.378	2.690	123.717	129.095	100.183	2.533	98.226	103.043
10939	ENSG00000215440	NPEPL1	-1.3	3.545E-05	0.0003833	5.052	0.164	4.875	5.198	6.797	0.671	6.219	7.532
10940	ENSG00000056291	NPFFR2	2.7	0.0002868	0.0021351	1.297	0.353	1.010	1.691	0.492	0.125	0.354	0.597
10941	ENSG00000161270	NPHS1	-1.5	0.0071977	0.0281207	0.896	0.167	0.703	1.001	1.368	0.194	1.192	1.576
10944	ENSG00000183426	NPIPA1	-1.2	0.0038487	0.0171975	4.321	0.308	4.079	4.668	5.319	0.101	5.240	5.432
10946	ENSG00000214967	NPIPA7	-1.3	0.0082442	0.0312904	10.377	0.621	9.709	10.938	13.382	0.907	12.402	14.192

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10948	ENSG00000214940	NPIPA8	-1.2	0.0251264	0.0752147	9.138	0.237	8.984	9.411	11.319	0.616	10.850	12.017
10950	ENSG00000196436	NPIPB15	-1.5	0.0006918	0.0043318	4.265	0.904	3.437	5.229	6.741	0.522	6.141	7.087
10951	ENSG00000198156	NPIPB6	1.4	0.0737887	0.1704436	1.679	0.271	1.417	1.958	1.217	0.275	1.034	1.533
10952	ENSG00000188599	NPIPP1	-1.2	0.0173048	0.0563055	11.506	0.452	11.110	11.999	14.334	0.532	13.814	14.877
10954	ENSG00000135838	NPL	1.4	0.0010446	0.0060865	3.257	0.551	2.701	3.803	2.370	0.187	2.216	2.578
10955	ENSG00000182446	NPLOC4	-1.1	0.0584206	0.142743	24.652	0.417	24.181	24.976	26.762	1.711	25.467	28.702
10956	ENSG00000181163	NPM1	-1.1	0.0006782	0.0042687	993.183	14.796	976.215	1003.398	1101.812	19.619	1089.762	1124.450
10957	ENSG00000215086	NPM1P24	-1.1	0.1129155	0.2325547	133.669	11.436	121.518	144.223	146.722	6.419	141.004	153.665
10958	ENSG00000249353	NPM1P27	-1.1	0.017109	0.0558295	2833.588	71.726	2783.940	2915.823	3067.380	53.124	3034.511	3128.669
10959	ENSG00000225159	NPM1P39	-1.1	0.0112876	0.0401657	178.532	9.340	169.343	188.017	200.417	7.178	193.656	207.949
10961	ENSG00000258925	NPM1P5	-1.1	0.0873607	0.1937267	24.178	2.552	22.225	27.066	28.161	1.783	26.151	29.552
10964	ENSG00000213881	NPM1P6	-1.1	0.0062304	0.0250891	382.142	13.374	369.229	395.934	425.231	5.092	420.498	430.618
10965	ENSG00000107833	NPM3	-1.1	0.0681493	0.1605752	157.907	3.587	154.745	161.805	172.668	4.509	169.357	177.803
10968	ENSG00000120937	NPPB	3	0.1008666	0.2144149	0.497	0.245	0.215	0.639	0.150	0.130	0.000	0.225
10969	ENSG00000169418	NPR1	1.2	0.0016861	0.0089144	11.112	0.246	10.869	11.362	9.403	1.306	8.606	10.910
10970	ENSG00000114388	NPRL2	-1.1	0.0169472	0.0554942	12.879	0.624	12.215	13.452	15.090	1.038	14.036	16.112
10971	ENSG00000103148	NPRL3	-1.1	0.0901542	0.1985387	9.654	0.748	8.981	10.460	10.755	0.250	10.504	11.004
10972	ENSG00000156642	NPTN	1.1	0.0012305	0.0069371	57.531	1.754	55.586	58.993	52.076	2.654	49.030	53.891
10973	ENSG00000171246	NPTX1	-33.6	1.57E-29	2.65E-25	1.394	0.583	1.057	2.067	47.936	1.168	46.870	49.185
10974	ENSG00000106236	NPTX2	1.4	1.64E-06	2.859E-05	24.777	2.892	21.833	27.614	18.084	2.419	15.911	20.691
10975	ENSG00000221890	NPTXR	1.2	0.008709	0.0326163	9.674	1.526	7.913	10.600	8.101	0.456	7.762	8.619
10976	ENSG00000164128	NPY1R	2.3	9.52E-14	1.35E-11	9.261	0.588	8.589	9.678	4.184	0.387	3.742	4.458
10977	ENSG00000164129	NPY5R	3	1.859E-08	6.366E-07	2.716	0.539	2.110	3.140	0.937	0.117	0.808	1.038
10980	ENSG00000181019	NQO1	1.7	1.79E-11	1.429E-09	52.645	6.690	45.419	58.622	32.498	0.561	31.881	32.977
10981	ENSG00000124588	NQO2	1.4	4.81E-13	5.54E-11	17.114	0.224	16.905	17.350	12.184	0.279	11.996	12.504
10982	ENSG00000174738	NR1D2	1.1	0.0141059	0.0480607	32.549	0.902	31.717	33.508	30.265	2.085	27.991	32.087
10983	ENSG00000131408	NR1H2	-1.1	0.0159489	0.0530263	18.158	1.179	16.849	19.134	21.029	0.963	20.235	22.100
10986	ENSG00000120798	NR2C1	-1.1	0.0075577	0.0292701	16.947	0.260	16.757	17.243	19.378	0.899	18.529	20.321
10987	ENSG00000177463	NR2C2	-1.2	1.753E-06	3.025E-05	17.450	0.153	17.335	17.623	21.419	1.336	19.877	22.193
10989	ENSG00000184162	NR2C2AP	1.1	0.0791998	0.1800897	15.165	1.161	13.918	16.213	13.650	0.702	12.985	14.385
10990	ENSG00000113580	NR3C1	1.1	0.0878344	0.1944683	3.391	0.147	3.249	3.541	3.076	0.079	2.997	3.155
10991	ENSG00000151623	NR3C2	-1.3	0.0970404	0.2087035	0.643	0.132	0.492	0.737	0.854	0.071	0.799	0.935
10992	ENSG00000123358	NR4A1	1.2	0.0027242	0.0130634	9.198	0.173	9.012	9.354	7.732	0.676	6.983	8.297
10993	ENSG00000116833	NR5A2	1.1	0.1005518	0.2139429	3.774	0.520	3.213	4.239	3.393	0.587	2.753	3.908
10995	ENSG00000198435	NRARP	-1.2	0.0043725	0.01906	20.838	0.725	20.033	21.438	25.494	1.964	24.128	27.745
10996	ENSG00000115216	NRBP1	1.1	0.0022162	0.0109886	84.838	2.247	82.813	87.255	79.473	0.842	78.508	80.054
10998	ENSG00000091129	NRCAM	1.3	0.0001727	0.0014169	4.295	0.399	3.837	4.562	3.331	0.234	3.071	3.524
10999	ENSG00000106459	NRF1	-1.1	0.077402	0.1768099	12.173	0.131	12.026	12.280	13.651	0.924	12.664	14.495
11000	ENSG00000157168	NRG1	2.1	5.57E-07	1.182E-05	1.208	0.110	1.095	1.315	0.594	0.155	0.494	0.773
11001	ENSG00000175352	NRIP3	1.3	0.0034285	0.0156875	7.007	0.863	6.016	7.597	5.697	0.532	5.262	6.290
11004	ENSG00000123572	NRK	-1.4	0.0001388	0.0011782	1.753	0.248	1.510	2.005	2.484	0.072	2.406	2.547
11006	ENSG00000118257	NRP2	1.6	7.816E-10	3.981E-08	12.052	1.654	10.861	13.940	7.663	0.599	7.253	8.351
11007	ENSG00000174004	NRROS	-1.3	0.0147674	0.0498126	4.037	0.215	3.789	4.163	5.237	0.284	4.998	5.550

	A	B	C	D	E	F	G	H	I	J	K	L	M
11010	ENSG00000225377	NRSN2-AS1	-1.3	0.0289365	0.0839026	10.491	2.630	8.684	13.508	13.769	0.927	13.160	14.836
11011	ENSG00000171119	NRTN	-1.4	0.0684578	0.1609882	3.025	0.973	2.284	4.127	4.390	1.948	3.081	6.628
11012	ENSG00000179915	NRXN1	-1.3	7.644E-07	1.528E-05	2.335	0.162	2.179	2.503	3.200	0.243	3.008	3.472
11014	ENSG00000110076	NRXN2	-1.4	6.925E-05	0.00067	1.798	0.280	1.577	2.112	2.651	0.261	2.363	2.871
11015	ENSG00000164346	NSA2	-1.1	0.0835801	0.1877528	43.087	0.399	42.632	43.378	46.635	1.789	45.088	48.594
11016	ENSG00000147548	NSD3	-1.1	0.0002003	0.001598	20.241	0.679	19.839	21.025	23.369	1.054	22.218	24.287
11017	ENSG00000147383	NSDHL	1.3	1.452E-07	3.778E-06	41.799	1.768	39.933	43.449	31.987	1.988	30.344	34.197
11019	ENSG00000073969	NSF	1.1	0.0051865	0.0217127	19.669	1.201	18.601	20.969	17.676	1.133	16.420	18.621
11023	ENSG00000035681	NSMAF	1.1	0.0103441	0.0374783	15.337	0.239	15.136	15.601	14.017	0.597	13.502	14.672
11024	ENSG00000165802	NSMF	-1.2	9.533E-05	0.0008697	30.191	1.264	29.368	31.646	36.422	2.699	34.294	39.458
11025	ENSG00000037474	NSUN2	-1.1	0.0888271	0.196127	54.934	4.244	50.749	59.235	59.417	2.550	56.496	61.196
11026	ENSG00000223705	NSUN5P1	-1.3	7.051E-07	1.428E-05	24.057	1.817	22.869	26.149	31.242	1.874	29.499	33.224
11027	ENSG00000106133	NSUN5P2	-1.1	0.0676161	0.1596081	31.116	0.942	30.034	31.752	34.631	1.620	32.770	35.730
11028	ENSG00000241058	NSUN6	-1.1	0.0302121	0.0867533	12.774	0.134	12.650	12.916	14.772	0.669	14.173	15.494
11029	ENSG00000076685	NT5C2	1.5	1.17E-14	2.15E-12	64.492	4.187	60.854	69.069	43.154	2.670	40.873	46.091
11030	ENSG00000122643	NT5C3A	1.1	0.1068181	0.2236462	17.196	1.987	14.992	18.852	16.067	1.199	15.005	17.367
11031	ENSG00000141698	NT5C3B	1.1	0.0180835	0.0583284	50.199	3.772	46.619	54.137	46.500	3.065	44.371	50.013
11032	ENSG00000178425	NT5DC1	1.1	0.0001034	0.0009277	42.648	2.226	41.155	45.207	38.120	0.968	37.047	38.926
11033	ENSG00000168268	NT5DC2	-1.1	0.0067899	0.0268061	91.524	3.047	88.042	93.704	101.023	2.279	99.092	103.537
11034	ENSG00000185652	NTF3	-1.7	0.0122982	0.0430283	0.779	0.216	0.607	1.021	1.363	0.262	1.170	1.661
11036	ENSG00000225950	NTF4	-1.7	0.0023376	0.0115097	2.389	0.744	1.910	3.245	4.111	0.422	3.635	4.440
11037	ENSG00000065320	NTN1	-1.3	0.0021626	0.0107768	3.513	0.324	3.146	3.758	4.578	0.366	4.209	4.942
11038	ENSG00000074527	NTN4	1.3	0.0376592	0.1021376	2.370	0.382	2.074	2.802	1.862	0.509	1.502	2.444
11039	ENSG00000162631	NTNG1	1.9	8.144E-06	0.0001118	1.216	0.124	1.141	1.358	0.660	0.113	0.565	0.785
11040	ENSG00000133636	NTS	-1.6	1.028E-07	2.804E-06	15.809	2.018	14.536	18.135	25.163	0.878	24.470	26.150
11041	ENSG00000013374	NUB1	1.1	0.0230752	0.0705095	30.174	0.813	29.571	31.099	28.350	1.196	27.141	29.533
11042	ENSG00000103274	NUBP1	1.1	0.0968299	0.2083834	23.214	1.448	21.901	24.767	21.454	0.622	21.000	22.163
11043	ENSG00000095906	NUBP2	-1.2	0.0042256	0.0185425	17.569	0.405	17.137	17.939	20.759	1.720	19.525	22.724
11045	ENSG00000090273	NUDC	1.1	0.1058196	0.2219678	111.901	2.754	108.891	114.295	108.693	4.912	103.506	113.274
11046	ENSG00000120526	NUDCD1	-1.1	0.0014394	0.0078211	49.315	2.427	47.327	52.020	56.482	2.617	53.737	58.950
11047	ENSG00000170584	NUDCD2	-1.1	0.0672997	0.1591503	20.419	0.517	20.057	21.011	22.274	1.389	21.143	23.825
11048	ENSG00000015676	NUDCD3	1.1	0.0097596	0.0357436	19.331	1.354	17.768	20.139	18.012	0.193	17.789	18.125
11049	ENSG00000112874	NUDT12	-1.2	5.084E-05	0.0005189	28.587	2.789	25.745	31.320	35.696	2.218	33.449	37.883
11050	ENSG00000136159	NUDT15	1.1	0.1165883	0.2379459	93.226	8.878	87.461	103.450	89.900	3.889	87.347	94.376
11053	ENSG00000198585	NUDT16	-1.1	0.0003302	0.0023819	26.746	1.695	24.870	28.169	31.216	0.965	30.652	32.330
11054	ENSG00000246082	NUDT16P1	-1.1	0.0146012	0.0493998	32.825	2.497	30.142	35.082	37.988	0.938	36.944	38.762
11057	ENSG00000186364	NUDT17	1.7	0.0004151	0.0028728	5.604	0.689	5.079	6.384	3.427	0.467	3.020	3.936
11058	ENSG00000167005	NUDT21	1.1	0.001576	0.0084245	175.744	2.727	172.982	178.434	164.052	3.104	162.230	167.637
11059	ENSG00000149761	NUDT22	-1.1	0.0471663	0.12153	10.183	0.899	9.410	11.170	11.954	0.896	11.394	12.988
11060	ENSG00000177144	NUDT4P1	-1.1	0.0931961	0.2029915	25.435	1.158	24.118	26.292	28.959	1.338	27.538	30.194
11064	ENSG00000165609	NUDT5	1.1	0.0691175	0.1622688	67.384	3.980	64.043	71.787	65.141	1.480	63.757	66.701

	A	B	C	D	E	F	G	H	I	J	K	L	M
11066	ENSG00000170917	NUDT6	-1.2	0.0100338	0.03655	3.094	0.313	2.780	3.405	3.917	0.401	3.464	4.229
11072	ENSG00000140876	NUDT7	1.2	0.009595	0.0352323	22.092	1.085	21.465	23.346	18.857	1.616	16.996	19.910
11073	ENSG00000170502	NUDT9	1.1	0.0453483	0.1178875	32.084	0.223	31.903	32.333	30.016	1.536	28.244	30.977
11074	ENSG00000143228	NUF2	-1.1	0.0244021	0.0736036	59.582	4.275	55.349	63.897	66.410	3.983	62.290	70.239
11075	ENSG00000108256	NUFIP2	-1.2	3.521E-06	5.489E-05	89.855	2.882	87.242	92.947	111.164	7.373	105.432	119.482
11076	ENSG00000124789	NUP153	1.1	0.0076427	0.0295208	73.844	1.869	72.392	75.952	69.946	1.017	68.803	70.748
11078	ENSG00000113569	NUP155	-1.1	0.0087468	0.0327038	37.495	0.541	36.871	37.827	41.358	0.990	40.351	42.331
11079	ENSG00000030066	NUP160	-1.3	3.947E-10	2.16E-08	63.015	1.734	61.072	64.405	81.409	5.117	75.603	85.266
11082	ENSG00000095319	NUP188	1.2	4.16E-08	1.279E-06	51.908	2.275	49.282	53.287	42.972	2.583	40.015	44.788
11083	ENSG00000155561	NUP205	-1.1	0.0146151	0.0494369	123.903	1.210	122.957	125.266	134.632	2.684	131.920	137.288
11084	ENSG00000132182	NUP210	1.2	3.323E-05	0.0003631	53.198	1.439	51.916	54.754	46.846	3.546	43.608	50.636
11085	ENSG00000163002	NUP35	-1.1	0.0828395	0.1863915	27.319	1.082	26.107	28.190	29.875	0.889	28.956	30.731
11088	ENSG00000093000	NUP50	-1.1	0.0046919	0.0201433	41.645	2.296	39.957	44.260	46.814	1.040	45.615	47.470
11089	ENSG00000125450	NUP85	-1.1	0.045563	0.1183365	27.043	1.937	24.817	28.346	29.840	0.746	29.033	30.504
11091	ENSG00000108559	NUP88	-1.2	5.808E-05	0.0005798	29.577	0.534	29.127	30.167	35.152	1.022	34.117	36.160
11093	ENSG00000102900	NUP93	-1.1	0.03692	0.1006602	39.661	0.310	39.320	39.927	42.926	0.812	42.297	43.842
11096	ENSG00000110713	NUP98	-1.1	0.0013179	0.0073006	40.715	1.718	38.987	42.423	45.899	2.241	43.509	47.954
11099	ENSG00000137804	NUSAP1	-1.2	9.206E-07	1.786E-05	187.425	10.345	179.703	199.179	226.265	9.560	217.544	236.486
11100	ENSG00000143748	NVL	1.2	0.006566	0.0041679	25.361	0.692	24.680	26.064	22.316	0.971	21.394	23.329
11101	ENSG00000162231	NXF1	-1.1	0.0618314	0.1489466	10.922	0.673	10.209	11.546	12.195	0.660	11.747	12.953
11103	ENSG00000167693	NXN	1.1	0.0017572	0.0092098	36.491	1.895	34.325	37.839	32.753	1.851	31.325	34.844
11105	ENSG00000130045	NXNL2	1.5	0.0041924	0.0184355	3.115	0.533	2.722	3.722	2.065	0.212	1.908	2.306
11106	ENSG00000144815	NXPE3	1.3	1.869E-08	6.387E-07	14.872	0.428	14.482	15.330	11.565	0.474	11.193	12.099
11107	ENSG00000144227	NXPH2	1.4	0.066125	0.1569425	5.165	1.446	3.509	6.179	3.716	1.431	2.697	5.352
11108	ENSG00000182575	NXPH3	-1.2	0.0926652	0.2023559	1.110	0.196	0.967	1.334	1.411	0.226	1.182	1.634
11109	ENSG00000182379	NXPH4	1.7	0.0154413	0.0516125	1.654	0.255	1.373	1.871	1.023	0.391	0.795	1.475
11110	ENSG00000205978	NYNRIN	-1.1	0.0750795	0.1725767	25.237	1.407	23.757	26.558	27.539	1.479	25.993	28.940
11113	ENSG00000111331	OAS3	1.2	0.1017038	0.2157968	1.586	0.169	1.396	1.719	1.353	0.232	1.092	1.535
11114	ENSG00000065154	OAT	1.1	0.001134	0.0065039	109.071	6.169	104.634	116.116	100.599	2.043	98.369	102.379
11115	ENSG00000180304	OAZ2	-1.1	0.056707	0.1395643	82.937	2.275	80.318	84.434	89.124	3.625	86.130	93.154
11118	ENSG00000154358	OBSCN	-1.1	0.0010645	0.006191	4.569	0.219	4.347	4.785	5.329	0.218	5.161	5.575
11119	ENSG00000124006	OBSL1	-1.2	0.0017	0.008971	28.687	0.597	28.005	29.112	34.305	2.259	32.349	36.777
11120	ENSG00000145247	OCIAD2	1.4	3.224E-10	1.836E-08	72.263	5.856	66.362	78.074	53.000	2.123	51.146	55.315
11121	ENSG00000197822	OCLN	1.2	8.484E-05	0.0007893	15.909	0.286	15.579	16.092	13.683	0.549	13.078	14.149
11123	ENSG00000122126	OCRL	1.2	6.19E-05	0.0006108	51.572	2.429	48.874	53.584	45.656	1.950	43.870	47.736
11124	ENSG00000136811	ODF2	1.1	0.1208735	0.2441869	14.825	1.189	14.088	16.197	14.143	0.661	13.749	14.906
11125	ENSG00000105953	OGDH	1.1	0.0001719	0.0014116	49.444	1.117	48.717	50.729	44.595	0.102	44.525	44.712
11132	ENSG00000197444	OGDHL	1.4	1.879E-08	6.406E-07	14.154	0.367	13.821	14.548	10.320	0.362	9.942	10.663
11134	ENSG00000181396	OGFOD3	1.1	0.0540246	0.1348264	8.306	0.712	7.508	8.877	7.529	0.516	7.096	8.100
11135	ENSG00000060491	OGFR	-1.3	1.133E-05	0.0001482	12.495	0.415	12.191	12.968	16.485	1.451	15.061	17.962
11136	ENSG00000119900	OGFRL1	1.6	1.102E-10	7.036E-09	9.984	0.647	9.383	10.668	6.502	0.742	6.031	7.357
11140	ENSG00000147162	OGT	-1.1	0.0146684	0.0495577	98.126	3.045	94.708	100.548	108.458	2.002	106.843	110.698
11141	ENSG00000104147	OIP5	-1.2	0.002003	0.0101842	55.361	1.935	54.001	57.577	65.859	4.526	61.190	70.228

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11142	ENSG00000138430	OLA1	-1.1	0.0018541	0.0095724	58.182	0.992	57.070	58.975	65.327	1.644	63.718	67.004
11143	ENSG00000213790	OLA1P1	-1.1	0.1090288	0.2270382	32.281	0.795	31.541	33.121	36.361	3.599	32.205	38.443
11144	ENSG00000105088	OLFM2	-1.1	0.0008805	0.0052689	74.308	5.791	67.621	77.711	86.267	3.393	83.176	89.898
11145	ENSG00000118733	OLFM3	-1.5	0.0871876	0.1934668	0.319	0.105	0.199	0.395	0.499	0.102	0.381	0.558
11146	ENSG00000185585	OLFML2A	1.5	3.976E-09	1.665E-07	11.871	0.322	11.534	12.177	8.086	0.384	7.758	8.509
11150	ENSG00000162745	OLFML2B	-1.3	0.0002662	0.0020127	9.399	0.701	8.609	9.947	12.344	0.734	11.869	13.190
11152	ENSG00000116774	OLFML3	1.2	1.874E-05	0.0002249	117.534	6.926	109.805	123.178	102.783	4.065	100.097	107.460
11153	ENSG00000235823	OLMALINC	1.7	1.67E-15	3.49E-13	48.186	0.231	47.924	48.357	28.364	1.822	26.299	29.747
11154	ENSG00000162600	OMA1	1.1	0.0851285	0.190031	12.667	0.663	11.901	13.073	11.708	0.315	11.400	12.030
11155	ENSG00000169856	ONECUT1	-1.7	0.000233	0.0018048	1.219	0.238	0.998	1.471	2.094	0.227	1.951	2.356
11156	ENSG00000119547	ONECUT2	-1.5	5.39E-05	0.0005439	0.998	0.071	0.919	1.056	1.511	0.115	1.387	1.614
11157	ENSG00000125741	OPA3	1.1	0.0604282	0.1465221	6.001	0.455	5.733	6.526	5.521	0.556	5.188	6.163
11158	ENSG00000183715	OPCML	-1.6	2.46E-05	0.0002834	1.205	0.181	1.032	1.393	2.004	0.099	1.893	2.079
11160	ENSG00000054277	OPN3	1.2	0.0006461	0.0041191	19.640	1.855	17.601	21.231	16.493	1.470	15.212	18.098
11161	ENSG00000116329	OPRD1	1.2	0.0083862	0.0316933	2.610	0.230	2.354	2.798	2.138	0.312	1.911	2.494
11162	ENSG00000188770	OPTC	-1.5	0.0230368	0.0704283	1.743	0.281	1.425	1.957	2.746	0.387	2.514	3.193
11163	ENSG00000123240	OPTN	1.4	2.987E-07	6.987E-06	17.234	1.662	15.402	18.645	12.688	0.365	12.302	13.028
11164	ENSG00000276045	ORAI1	1.3	0.0001302	0.0011222	21.560	1.911	19.693	23.513	17.058	0.994	16.305	18.184
11168	ENSG00000149716	ORAOV1	-1.2	0.00228105	0.0698831	4.260	0.344	4.032	4.656	5.056	0.463	4.537	5.425
11169	ENSG00000085840	ORC1	-1.1	0.0641194	0.1532578	44.067	3.553	40.734	47.805	48.286	0.708	47.470	48.739
11171	ENSG00000115942	ORC2	-1.1	0.0023601	0.0116104	36.002	1.494	35.082	37.726	40.923	1.536	39.337	42.403
11174	ENSG00000135506	OS9	1.2	4.668E-05	0.000485	51.796	2.120	49.790	54.014	45.139	2.670	42.198	47.410
11177	ENSG00000110048	OSBP	-1.2	8.337E-07	1.636E-05	37.510	1.578	35.701	38.603	46.560	2.320	44.254	48.893
11179	ENSG00000144645	OSBPL10	-1.1	0.0008095	0.0049177	11.512	0.523	10.948	11.980	13.346	0.504	12.877	13.879
11180	ENSG00000144909	OSBPL11	-1.2	0.0012667	0.0070961	20.462	0.940	19.741	21.525	24.274	0.776	23.436	24.967
11181	ENSG00000130703	OSBPL2	-1.1	0.0350762	0.0971182	10.501	0.276	10.296	10.815	11.677	0.639	11.288	12.415
11183	ENSG00000006025	OSBPL7	-1.2	0.0264077	0.0781344	2.817	0.407	2.518	3.280	3.571	0.559	3.213	4.215
11184	ENSG00000091039	OSBPL8	1.1	0.0034626	0.0158109	55.036	3.197	52.435	58.605	50.869	2.634	47.883	52.862
11185	ENSG00000117859	OSBPL9	1.2	1.108E-05	0.0001455	40.816	1.934	38.893	42.760	36.072	1.024	35.365	37.247
11187	ENSG00000170909	OSCAR	-1.4	0.0184449	0.0591962	2.724	0.247	2.481	2.976	3.925	0.765	3.204	4.728
11188	ENSG00000116885	OSCP1	1.3	0.0846232	0.1893414	2.091	0.436	1.642	2.512	1.658	0.091	1.560	1.739
11189	ENSG00000223891	OSER1-AS1	-1.2	0.0258979	0.076979	6.370	0.445	5.880	6.747	8.042	0.952	7.104	9.009
11190	ENSG00000092094	OSGEP	1.1	0.0225424	0.0691941	14.754	0.680	14.255	15.529	13.594	0.156	13.443	13.755
11191	ENSG00000128694	OSGEPL1	-1.2	0.0013607	0.0074841	17.365	1.424	15.759	18.473	21.638	1.986	20.155	23.894
11192	ENSG00000164823	OSGIN2	1.2	0.0021666	0.0107936	22.551	1.595	21.070	24.239	19.782	1.943	17.949	21.819
11193	ENSG00000145623	OSMR	1.8	1.754E-08	6.029E-07	3.648	0.237	3.398	3.869	2.085	0.334	1.700	2.303
11195	ENSG00000228474	OST4	-1.1	0.0001757	0.0014381	227.435	4.387	223.007	231.781	265.263	7.431	256.713	270.163
11196	ENSG00000081087	OSTM1	1.2	0.0003493	0.0024987	16.080	0.965	15.444	17.191	13.754	0.884	13.007	14.730
11197	ENSG00000167770	OTUB1	-1.1	0.1074799	0.2248093	40.204	0.442	39.761	40.645	43.214	1.581	41.532	44.669
11198	ENSG00000089723	OTUB2	-1.2	0.0422902	0.111602	3.600	0.329	3.229	3.854	4.431	0.428	3.945	4.749
11199	ENSG00000165312	OTUD1	-1.2	0.0069793	0.0274577	8.249	0.290	7.954	8.534	10.378	0.284	10.078	10.643

	A	B	C	D	E	F	G	H	I	J	K	L	M
11200	ENSG00000169914	OTUD3	-1.2	0.0006156	0.0039634	15.512	0.989	14.487	16.462	18.561	0.544	17.969	19.039
11202	ENSG00000164164	OTUD4	1.1	0.1150889	0.2357106	32.366	1.310	31.288	33.825	31.392	1.943	29.410	33.295
11203	ENSG00000154124	OTULIN	1.1	0.0028408	0.0134623	13.350	0.182	13.181	13.543	12.006	0.740	11.348	12.806
11204	ENSG00000165588	OTX2	-1.7	1.128E-09	5.419E-08	24.358	2.778	21.208	26.459	41.573	5.129	35.703	45.185
11208	ENSG00000085465	OVGP1	-1.5	1.319E-05	0.0001689	4.905	0.116	4.777	5.004	7.686	0.633	6.957	8.103
11209	ENSG00000172818	OVOL1	-1.3	0.0040806	0.0180386	4.360	0.424	3.948	4.795	5.867	1.137	4.559	6.623
11210	ENSG00000155463	OXA1L	1.1	0.0175547	0.056867	77.268	1.208	75.967	78.354	73.242	3.468	70.173	77.005
11212	ENSG00000083720	OXCT1	1.2	0.0001507	0.0012627	35.850	1.000	34.746	36.696	30.975	2.502	29.247	33.844
11215	ENSG00000151093	OXSM	1.3	0.0296225	0.0854082	4.111	0.716	3.447	4.870	3.232	0.228	3.061	3.491
11216	ENSG00000083454	P2RX5	-1.3	0.0546598	0.1360301	1.555	0.150	1.446	1.727	2.061	0.200	1.832	2.202
11218	ENSG00000089041	P2RX7	1.4	0.0850685	0.189961	0.605	0.105	0.510	0.719	0.440	0.016	0.421	0.451
11219	ENSG00000169860	P2RY1	-1.2	0.0024105	0.0117924	12.925	1.031	11.759	13.713	15.288	1.036	14.420	16.435
11220	ENSG00000244165	P2RY11	1.5	0.0027937	0.0133173	4.323	0.731	3.765	5.150	2.949	0.541	2.327	3.316
11221	ENSG00000175591	P2RY2	-1.8	0.0051498	0.0216179	0.707	0.361	0.365	1.084	1.321	0.129	1.203	1.458
11223	ENSG00000090530	P3H2	-1.2	0.0048613	0.0207102	20.114	2.391	18.527	22.865	23.837	2.323	21.821	26.377
11225	ENSG00000141696	P3H4	-1.2	0.0001003	0.0009065	16.203	0.605	15.623	16.831	20.311	0.433	19.991	20.804
11226	ENSG00000122884	P4HA1	-1.3	1.596E-07	4.103E-06	35.728	1.135	34.630	36.897	46.824	3.893	44.406	51.315
11229	ENSG00000072682	P4HA2	-1.4	8.164E-05	0.000765	2.799	0.157	2.622	2.919	3.941	0.344	3.631	4.311
11233	ENSG00000170515	PA2G4	-1.1	0.0065645	0.0261545	119.654	2.003	117.381	121.157	132.194	2.709	129.089	134.074
11234	ENSG00000175575	PAAF1	1.1	0.0386827	0.1041921	10.376	0.349	10.107	10.771	9.589	0.424	9.231	10.057
11235	ENSG00000070756	PABPC1	-1.1	1.641E-05	0.0002004	781.720	14.564	765.011	791.726	890.025	17.641	869.660	900.611
11236	ENSG00000101104	PABPC1L	1.1	0.0960046	0.2073195	21.925	1.190	20.559	22.736	20.768	0.805	19.926	21.531
11239	ENSG00000230673	PABPC1P3	-1.2	0.0650875	0.1549147	18.091	0.811	17.315	18.933	22.569	0.714	21.815	23.234
11240	ENSG00000151846	PABPC3	-1.1	0.0101825	0.0369979	19.021	0.708	18.320	19.736	22.058	0.209	21.818	22.200
11242	ENSG00000090621	PABPC4	1.1	0.0021565	0.0107525	83.167	2.052	80.811	84.555	78.232	1.203	76.861	79.110
11243	ENSG00000174740	PABPC5	-1.3	0.0449921	0.1171595	3.906	0.868	3.212	4.879	5.020	1.228	4.006	6.385
11245	ENSG00000179364	PACS2	-1.1	0.1129481	0.2325935	10.344	0.233	10.091	10.552	11.264	0.935	10.367	12.233
11246	ENSG00000165912	PACSIN3	1.1	0.0508946	0.1287594	37.675	0.804	37.138	38.599	35.193	2.087	32.868	36.906
11248	ENSG00000142619	PADI3	1.3	0.0018505	0.0095651	5.372	0.280	5.093	5.652	4.100	0.098	3.993	4.187
11249	ENSG00000006712	PAF1	-1.2	0.0018392	0.009536	21.409	1.406	20.433	23.021	25.977	1.858	24.389	28.021
11250	ENSG00000007168	PAFAH1B1	1.1	0.0677336	0.1598185	55.761	1.703	53.906	57.251	54.179	0.857	53.226	54.888
11251	ENSG00000168092	PAFAH1B2	-1.1	0.0040709	0.0180051	41.260	0.791	40.392	41.941	46.254	2.574	43.984	49.051
11252	ENSG00000158006	PAFAH2	1.1	0.0843378	0.1889109	13.390	0.345	13.021	13.706	12.472	0.899	11.532	13.323
11254	ENSG00000076641	PAG1	4.8	2.422E-05	0.0002795	0.188	0.046	0.135	0.214	0.039	0.022	0.014	0.056
11255	ENSG00000280789	PAGR1	-1.2	0.0238865	0.0724001	9.776	0.643	9.282	10.503	12.091	0.988	11.178	13.140
11256	ENSG00000171759	PAH	1.8	4.029E-08	1.243E-06	4.885	0.537	4.545	5.504	2.830	0.454	2.547	3.355
11257	ENSG00000128050	PAICS	-1.1	8.422E-05	0.0007843	242.590	2.545	239.655	244.206	273.560	3.613	269.469	276.314
11258	ENSG00000254244	PAICSP4	-1.1	0.0416899	0.110328	39.894	0.946	38.920	40.809	45.239	2.737	43.287	48.368
11260	ENSG00000172239	PAIP1	1.1	0.0099966	0.036438	44.581	1.270	43.115	45.333	41.306	1.896	39.765	43.424
11261	ENSG00000120727	PAIP2	1.1	0.0112303	0.039997	164.091	5.860	157.330	167.702	155.223	7.721	146.345	160.365
11262	ENSG00000124374	PAIP2B	1.1	0.0037352	0.0167923	37.366	1.303	35.992	38.585	34.673	0.414	34.401	35.150

	A	B	C	D	E	F	G	H	I	J	K	L	M
11263	ENSG00000149269	PAK1	-1.1	0.0485632	0.1242023	67.733	1.111	66.451	68.402	73.001	0.847	72.091	73.767
11264	ENSG00000077264	PAK3	-1.6	9.811E-10	4.796E-08	4.262	0.394	3.851	4.638	6.835	0.207	6.672	7.068
11265	ENSG00000130669	PAK4	-1.2	0.0036989	0.0166472	17.780	2.159	15.543	19.851	21.183	1.004	20.386	22.311
11266	ENSG00000083093	PALB2	1.1	0.0109236	0.039167	23.464	0.328	23.234	23.840	21.431	0.823	20.480	21.910
11267	ENSG00000129116	PALLD	1.5	2.77E-12	2.726E-10	16.781	1.258	15.328	17.515	11.248	0.605	10.610	11.814
11268	ENSG00000243444	PALM2	1.6	0.0516032	0.1300692	0.529	0.105	0.418	0.627	0.343	0.087	0.283	0.443
11271	ENSG00000187867	PALM3	-1.1	0.0104365	0.0377891	31.953	1.957	30.096	33.997	36.953	1.659	35.117	38.343
11272	ENSG00000135473	PAN2	-1.2	8.822E-06	0.0001198	22.489	1.195	21.555	23.836	27.813	1.143	26.494	28.490
11275	ENSG00000125779	PANK2	1.1	0.0014545	0.007887	21.429	0.389	20.999	21.757	19.319	0.816	18.549	20.174
11276	ENSG00000110218	PANX1	-1.2	6.808E-05	0.0006602	26.765	0.774	25.877	27.300	32.985	0.586	32.546	33.651
11277	ENSG00000121274	PAPD5	-1.1	0.0424668	0.1118768	8.973	0.104	8.901	9.092	10.008	0.117	9.878	10.103
11278	ENSG00000112941	PAPD7	-1.2	0.000132	0.0011342	16.531	0.751	15.788	17.289	20.073	1.115	18.837	21.005
11279	ENSG00000100767	PAPLN	-1.5	2.172E-07	5.279E-06	7.075	1.047	5.887	7.868	10.772	1.257	9.321	11.498
11280	ENSG00000090060	PAPOLA	-1.2	4.306E-07	9.507E-06	63.021	3.277	59.969	66.484	76.450	3.852	73.793	80.868
11283	ENSG00000198682	PAPSS2	-1.3	2.118E-07	5.185E-06	17.803	0.843	17.151	18.755	24.037	1.853	22.807	26.169
11284	ENSG00000163291	PAQR3	1.3	2.916E-07	6.85E-06	13.633	0.441	13.189	14.070	10.967	0.305	10.697	11.298
11285	ENSG00000162073	PAQR4	1.2	0.0077965	0.0300164	19.177	1.983	17.189	21.155	16.840	0.612	16.199	17.419
11291	ENSG00000137819	PAQR5	1.1	0.0878833	0.1945511	7.114	0.690	6.607	7.899	6.550	0.295	6.328	6.885
11293	ENSG00000160781	PAQR6	1.2	0.0554676	0.1374942	4.696	0.863	3.935	5.633	3.860	0.455	3.334	4.139
11295	ENSG00000182749	PAQR7	1.2	0.036023	0.0989525	8.776	0.290	8.469	9.046	7.704	0.084	7.631	7.795
11297	ENSG00000148498	PARD3	-1.1	0.0210803	0.0657806	35.701	1.801	34.107	37.654	39.467	1.577	38.270	41.254
11303	ENSG00000116117	PARD3B	1.3	0.0021991	0.0109201	2.401	0.075	2.325	2.474	1.885	0.274	1.586	2.124
11304	ENSG00000267270	PARD6G-AS1	-1.6	0.0008512	0.0051307	1.216	0.151	1.062	1.364	2.013	0.458	1.557	2.473
11305	ENSG00000175193	PARL	-1.2	0.0374425	0.1016802	8.857	1.366	7.686	10.357	10.654	0.203	10.522	10.887
11306	ENSG00000140694	PARN	1.1	0.0093339	0.034423	40.583	0.766	39.847	41.376	37.929	1.370	36.940	39.494
11307	ENSG00000143799	PARP1	-1.1	0.0053823	0.0223553	285.501	9.431	274.695	292.068	312.876	10.244	301.358	320.964
11308	ENSG00000111224	PARP11	1.2	0.0120554	0.042407	8.778	0.545	8.364	9.396	7.722	0.817	6.786	8.291
11310	ENSG00000173193	PARP14	1.2	0.0005056	0.0033894	16.057	1.145	14.735	16.741	14.171	0.698	13.367	14.629
11311	ENSG00000138617	PARP16	-1.3	0.0004349	0.0029859	6.301	0.344	6.081	6.697	8.329	0.443	7.817	8.588
11312	ENSG00000129484	PARP2	-1.1	0.0584554	0.1427662	29.968	0.412	29.522	30.335	32.875	0.868	31.883	33.491
11314	ENSG00000041880	PARP3	-1.5	0.0274267	0.0804487	0.961	0.177	0.757	1.069	1.466	0.168	1.311	1.644
11315	ENSG00000102699	PARP4	1.2	7.744E-07	1.546E-05	52.689	2.340	50.605	55.221	44.993	1.476	44.110	46.696
11317	ENSG00000137817	PARP6	-1.1	0.0683703	0.1608742	10.656	0.143	10.501	10.782	11.842	0.426	11.361	12.173
11319	ENSG00000151883	PARP8	1.1	0.0223851	0.0687989	7.592	0.583	6.934	8.046	6.942	0.418	6.486	7.305
11320	ENSG00000185480	PARPBP	1.1	0.0384162	0.1036093	31.960	1.538	30.331	33.387	30.114	0.510	29.614	30.634
11321	ENSG00000197702	PARVA	1.3	0.0001347	0.0011523	6.470	0.364	6.234	6.889	5.249	0.206	5.018	5.413
11323	ENSG00000188677	PARVB	1.2	0.0119493	0.0420716	6.164	0.621	5.485	6.702	5.343	0.203	5.140	5.546
11325	ENSG00000166889	PATL1	1.1	0.0194921	0.061736	35.404	0.373	34.984	35.697	33.296	0.903	32.291	34.037
11326	ENSG00000100105	PATZ1	-1.1	0.0021124	0.0105892	34.173	1.710	32.211	35.345	39.242	1.932	37.024	40.564
11327	ENSG00000177425	PAWR	1.3	6.78E-09	2.661E-07	130.288	2.772	127.879	133.318	106.482	7.859	98.906	114.595
11329	ENSG00000159086	PAXBP1	-1.2	3.114E-07	7.223E-06	40.982	0.636	40.248	41.378	50.590	1.353	49.032	51.461

	A	B	C	D	E	F	G	H	I	J	K	L	M
11330	ENSG00000273344	PAXIP1-AS1	-1.1	0.1075624	0.2248965	14.837	0.400	14.463	15.259	17.033	1.266	16.246	18.494
11331	ENSG00000102390	PBDC1	1.1	0.0213287	0.0663111	70.057	3.678	65.812	72.286	63.827	5.984	60.163	70.732
11333	ENSG00000108187	PBLD	1.2	0.0993772	0.2124073	2.063	0.435	1.770	2.564	1.728	0.316	1.387	2.012
11334	ENSG00000185630	PBX1	1.1	0.0168834	0.0553389	32.590	1.123	31.302	33.370	31.043	1.314	29.747	32.373
11336	ENSG00000204304	PBX2	-1.1	0.1179732	0.2399905	97.906	6.784	90.290	103.302	105.138	5.333	99.809	110.475
11338	ENSG00000167081	PBX3	-1.1	0.0808042	0.1826938	22.054	1.018	21.027	23.063	24.335	1.265	23.551	25.794
11339	ENSG00000163346	PBXIP1	1.1	0.0072128	0.0281601	40.239	1.424	38.895	41.731	37.017	2.555	34.235	39.259
11341	ENSG00000173599	PC	1.2	0.0027791	0.0132772	7.456	0.486	6.900	7.802	6.273	0.776	5.434	6.966
11342	ENSG00000228288	PCAT6	-1.5	9.397E-05	0.0008596	12.314	0.714	11.718	13.106	18.904	2.349	16.228	20.626
11343	ENSG00000166228	PCBD1	1.1	0.0133202	0.0459295	44.666	1.223	43.543	45.969	40.221	1.059	39.162	41.280
11344	ENSG00000132570	PCBD2	1.1	0.0478052	0.1226978	4.628	0.338	4.244	4.882	4.138	0.205	4.013	4.375
11347	ENSG00000169564	PCBP1	-1.2	1.165E-07	3.112E-06	440.141	23.664	415.261	462.365	533.329	13.099	521.806	547.575
11349	ENSG00000179818	PCBP1-AS1	-1.2	0.0212334	0.0661158	1.713	0.042	1.687	1.762	2.018	0.133	1.864	2.097
11351	ENSG00000197111	PCBP2	-1.1	1.939E-05	0.0002317	63.467	3.273	59.861	66.250	74.098	0.936	73.030	74.772
11352	ENSG00000090097	PCBP4	-1.4	2.782E-06	4.493E-05	9.710	0.463	9.407	10.243	13.448	0.388	13.004	13.724
11355	ENSG00000175198	PCCA	-1.1	0.0512773	0.1294031	17.674	0.534	17.062	18.046	19.471	1.112	18.791	20.754
11357	ENSG00000156453	PCDH1	-1.2	3.361E-07	7.724E-06	42.485	3.401	40.169	46.389	53.499	3.540	50.465	57.388
11358	ENSG00000138650	PCDH10	1.6	6.362E-07	1.314E-05	8.248	1.469	7.287	9.939	5.429	0.521	4.921	5.962
11359	ENSG00000102290	PCDH11X	-1.3	1.229E-07	3.257E-06	9.941	0.788	9.031	10.410	13.423	0.446	13.055	13.919
11360	ENSG00000099715	PCDH11Y	-1.4	0.0001674	0.0013801	1.557	0.103	1.458	1.663	2.171	0.035	2.140	2.209
11361	ENSG00000189184	PCDH18	-1.1	0.00705	0.0276652	44.754	1.800	43.252	46.749	50.194	3.825	46.502	54.140
11362	ENSG00000165194	PCDH19	-1.7	0.005208	0.0217756	0.269	0.139	0.166	0.428	0.478	0.065	0.411	0.541
11364	ENSG00000249158	PCDHA11	1.3	0.0956739	0.2068694	0.970	0.150	0.830	1.128	0.764	0.078	0.675	0.821
11365	ENSG00000251664	PCDHA12	1.4	0.001915	0.0098293	3.878	0.933	3.141	4.927	2.880	0.387	2.565	3.312
11366	ENSG00000239389	PCDHA13	1.4	0.0180363	0.0582041	1.569	0.353	1.315	1.972	1.140	0.263	0.909	1.426
11367	ENSG00000243232	PCDHAC2	1.3	0.0045431	0.0196414	4.711	0.347	4.339	5.024	3.841	0.556	3.434	4.474
11368	ENSG00000120327	PCDHB14	1.4	0.0011593	0.0066243	3.042	0.159	2.860	3.152	2.238	0.264	1.997	2.520
11371	ENSG00000113248	PCDHB15	1.2	0.0022322	0.011052	8.734	0.265	8.451	8.977	7.200	0.546	6.850	7.829
11373	ENSG00000272674	PCDHB16	1.3	0.0619453	0.1491572	1.792	0.304	1.484	2.092	1.430	0.201	1.206	1.592
11374	ENSG00000112852	PCDHB2	1.2	0.0007989	0.0048616	16.378	0.829	15.820	17.331	13.989	0.657	13.435	14.715
11375	ENSG00000177839	PCDHB9	1.7	0.0036556	0.0165094	0.998	0.074	0.915	1.060	0.594	0.035	0.555	0.623
11376	ENSG00000204956	PCDHGA1	1.6	0.0654858	0.1556437	0.471	0.024	0.449	0.496	0.305	0.105	0.240	0.425
11377	ENSG00000253873	PCDHGA11	1.2	0.0466984	0.1205265	4.177	0.467	3.639	4.472	3.653	0.196	3.497	3.873
11378	ENSG00000253159	PCDHGA12	-1.4	0.1163849	0.2376743	0.446	0.160	0.337	0.629	0.649	0.072	0.572	0.715
11379	ENSG00000262576	PCDHGA4	1.6	0.0537582	0.1342605	0.616	0.184	0.453	0.816	0.386	0.188	0.171	0.512
11380	ENSG00000254221	PCDHGB1	1.3	0.0923774	0.20191	1.105	0.283	0.794	1.346	0.858	0.181	0.670	1.030
11381	ENSG00000253910	PCDHGB2	1.7	0.0007686	0.004708	1.810	0.147	1.642	1.911	1.116	0.186	0.951	1.317
11382	ENSG00000253953	PCDHGB4	1.2	0.0272889	0.0801517	2.294	0.097	2.229	2.405	1.902	0.198	1.706	2.102
11384	ENSG00000253305	PCDHGB6	1.3	0.002882	0.0136193	3.697	0.284	3.501	4.023	2.932	0.334	2.660	3.305

	A	B	C	D	E	F	G	H	I	J	K	L	M
11385	ENSG00000240184	PCDHGC3	1.2	0.0420252	0.1110583	4.419	0.597	3.781	4.964	3.772	0.781	3.116	4.636
11387	ENSG00000242419	PCDHGC4	-1.4	0.0440701	0.1153092	0.695	0.170	0.594	0.890	1.021	0.211	0.805	1.226
11388	ENSG00000165494	PCF11	1.1	0.0824343	0.1857463	24.124	1.605	22.757	25.891	23.107	0.720	22.322	23.737
11390	ENSG00000185619	PCGF3	-1.1	0.0063505	0.0254585	29.660	0.717	29.180	30.483	33.363	1.064	32.575	34.574
11391	ENSG00000100982	PCIF1	-1.4	1.22E-08	4.409E-07	24.388	0.880	23.530	25.289	33.716	1.265	32.973	35.176
11392	ENSG00000100889	PCK2	1.9	1.81E-19	1.09E-16	78.579	3.999	75.038	82.916	43.218	1.550	42.115	44.989
11394	ENSG00000186472	PCLO	1.2	0.0122927	0.043021	1.851	0.299	1.537	2.132	1.558	0.069	1.501	1.634
11397	ENSG00000168300	PCMTD1	-1.2	0.0004241	0.0029274	19.115	0.198	18.912	19.307	22.744	0.969	21.690	23.594
11398	ENSG00000160299	PCNT	-1.2	9.287E-05	0.0008518	12.585	0.065	12.511	12.633	14.940	0.304	14.599	15.184
11399	ENSG00000100731	PCNX1	-1.1	0.0079666	0.0305046	17.938	0.956	16.837	18.549	20.018	0.856	19.502	21.007
11400	ENSG00000197136	PCNX3	1.1	0.0559094	0.1383056	13.158	1.233	11.760	14.091	12.178	1.264	11.074	13.556
11402	ENSG00000126773	PCNX4	1.1	0.0089736	0.0333488	8.390	0.258	8.131	8.646	7.824	0.359	7.550	8.230
11404	ENSG00000224729	PCOLCE-AS1	-1.7	1.68E-08	5.821E-07	6.134	0.193	5.949	6.334	10.807	0.537	10.241	11.310
11407	ENSG00000175426	PCSK1	1.5	0.0010082	0.0059124	2.820	0.514	2.253	3.257	1.947	0.209	1.756	2.170
11408	ENSG00000099139	PCSK5	1.1	0.0819517	0.1849791	3.654	0.218	3.417	3.846	3.394	0.230	3.129	3.533
11410	ENSG00000169174	PCSK9	1.7	3.66E-17	1.24E-14	39.056	1.339	37.556	40.131	23.456	1.087	22.324	24.491
11412	ENSG00000116005	PCYOX1	1.2	5.983E-06	8.627E-05	49.502	1.811	47.411	50.556	43.089	1.223	41.695	43.982
11413	ENSG00000161217	PCYT1A	1.2	0.0001196	0.0010469	11.296	0.273	11.043	11.585	9.594	0.391	9.246	10.018
11415	ENSG00000102230	PCYT1B	1.2	5.488E-05	0.0005522	31.310	1.826	30.213	33.418	27.147	1.934	24.935	28.521
11416	ENSG00000185813	PCYT2	1.8	2.24E-11	1.733E-09	9.545	1.296	8.049	10.346	5.523	0.495	5.044	6.032
11418	ENSG00000188389	PDCD1	1.5	0.007754	0.0299003	3.062	0.928	2.095	3.947	2.038	0.174	1.837	2.145
11419	ENSG00000148843	PDCD11	1.1	0.060241	0.1461144	54.082	2.114	52.182	56.358	52.363	2.326	50.527	54.979
11420	ENSG00000071994	PDCD2	-1.2	7.652E-05	0.0007254	27.777	0.667	27.273	28.533	32.795	0.196	32.676	33.022
11421	ENSG00000126249	PDCD2L	1.1	0.0357055	0.0982729	29.666	2.071	27.277	30.973	26.590	2.606	23.876	29.072
11422	ENSG00000136940	PDCL	-1.2	0.000864	0.005191	22.655	0.474	22.253	23.177	27.232	0.851	26.688	28.212
11423	ENSG00000244119	PDCL3P4	1.8	1.906E-06	3.262E-05	18.322	0.440	18.057	18.830	10.167	1.802	9.052	12.245
11424	ENSG00000184588	PDE4B	1.7	0.000622	0.0039969	0.651	0.068	0.581	0.717	0.379	0.095	0.270	0.449
11426	ENSG00000105650	PDE4C	-1.3	0.0033303	0.0153058	1.333	0.124	1.196	1.436	1.801	0.143	1.638	1.906
11427	ENSG00000113448	PDE4D	1.9	6.31E-06	9E-05	0.687	0.090	0.598	0.779	0.377	0.100	0.305	0.491
11428	ENSG00000178104	PDE4DIP	-1.1	0.0696036	0.1631608	4.681	0.102	4.583	4.787	5.141	0.377	4.707	5.384
11429	ENSG00000138735	PDE5A	-1.1	0.0185088	0.0592898	12.932	0.393	12.521	13.306	14.507	0.675	13.806	15.152
11430	ENSG00000156973	PDE6D	1.1	0.0325421	0.0919452	29.864	1.825	28.667	31.964	27.549	1.717	25.737	29.153
11431	ENSG00000113231	PDE8B	1.4	0.0302339	0.0868011	0.803	0.227	0.644	1.063	0.581	0.043	0.553	0.631
11432	ENSG00000160191	PDE9A	1.1	0.006307	0.0253191	15.320	0.440	14.888	15.767	13.797	0.510	13.215	14.167
11433	ENSG00000197461	PDGFA	1.2	6.488E-06	9.229E-05	31.486	2.106	29.202	33.349	25.921	0.855	25.066	26.776
11434	ENSG00000100311	PDGFB	2.2	1.146E-09	5.46E-08	13.074	0.469	12.557	13.474	6.163	1.594	4.418	7.543
11436	ENSG00000145431	PDGFC	1.3	0.0155147	0.0518067	2.920	0.571	2.291	3.405	2.307	0.385	1.916	2.685
11437	ENSG00000113721	PDGFRB	1.2	0.0063424	0.0254432	7.479	0.385	7.054	7.804	6.537	0.450	6.267	7.056
11438	ENSG00000168291	PDHB	1.1	0.018487	0.0592517	108.187	1.407	107.330	109.810	103.536	1.628	102.071	105.289
11439	ENSG00000110435	PDHX	-1.1	0.066817	0.1581853	34.141	0.477	33.752	34.673	37.488	2.166	35.065	39.236
11440	ENSG00000167004	PDIA3	1	0.0820322	0.1850867	322.309	8.497	316.014	331.974	315.795	1.210	314.684	317.085
11442	ENSG00000180867	PDIA3P1	1.1	0.0866904	0.1926921	306.007	8.328	296.523	312.129	296.933	14.311	280.417	305.646

	A	B	C	D	E	F	G	H	I	J	K	L	M
11445	ENSG00000155660	PDIA4	1.1	1.391E-05	0.0001762	289.774	15.159	278.921	307.094	259.546	10.582	251.834	271.610
11446	ENSG00000065485	PDIA5	-1.2	0.0022088	0.0109619	17.778	0.308	17.512	18.115	20.973	1.450	19.576	22.470
11447	ENSG00000143870	PDIA6	1	0.08224	0.185432	345.931	8.249	339.276	355.161	339.454	6.386	334.380	346.625
11450	ENSG00000152256	PDK1	-1.2	0.0149004	0.0501912	4.857	0.175	4.685	5.035	5.716	0.997	5.091	6.866
11451	ENSG00000005882	PDK2	-1.1	0.0934081	0.2033358	8.569	0.805	7.979	9.487	9.722	1.541	8.769	11.500
11452	ENSG00000067992	PDK3	-1.3	9.879E-05	0.0008954	24.348	2.407	21.873	26.680	31.176	1.412	30.157	32.789
11453	ENSG00000107438	PDLIM1	-1.2	1.749E-08	6.025E-07	159.198	2.220	157.866	161.761	200.063	3.468	196.708	203.633
11454	ENSG00000120913	PDLIM2	1.2	0.001265	0.0070892	3.846	0.307	3.635	4.198	3.226	0.159	3.046	3.346
11455	ENSG00000131435	PDLIM4	1.3	0.0041473	0.0182903	7.320	1.273	5.967	8.495	5.761	0.277	5.449	5.978
11457	ENSG00000163110	PDLIM5	1.2	6.711E-06	9.498E-05	16.200	1.524	14.458	17.290	13.543	0.452	13.051	13.940
11460	ENSG00000164951	PDP1	2.8	3.73E-19	2.18E-16	44.808	5.696	38.529	49.645	16.360	0.437	16.048	16.860
11461	ENSG00000140992	PDPK1	-1.1	0.0235372	0.0715979	8.483	0.300	8.154	8.743	9.591	0.646	8.855	10.068
11462	ENSG00000162493	PDPN	-1.2	9.01E-05	0.00083	67.920	6.221	61.017	73.093	80.551	1.540	78.874	81.902
11465	ENSG00000083642	PDS5B	-1.2	1.832E-06	3.152E-05	11.869	0.344	11.473	12.091	14.804	0.728	14.047	15.499
11466	ENSG00000164494	PDSS2	-1.2	0.0004359	0.0029907	14.489	0.439	14.036	14.914	18.045	0.359	17.761	18.449
11467	ENSG00000160209	PDXK	1.1	0.0246495	0.0741351	18.191	0.296	17.978	18.529	17.205	0.890	16.301	18.079
11473	ENSG00000241360	PDXP	-1.3	0.1152157	0.2357705	1.682	0.187	1.541	1.894	2.284	0.922	1.621	3.337
11474	ENSG00000067840	PDZD4	1	0.1153792	0.2359908	79.793	3.917	76.882	84.247	77.746	2.953	74.390	79.947
11475	ENSG00000186862	PDZD7	-1.3	0.0673475	0.1591798	0.806	0.138	0.717	0.964	1.081	0.202	0.887	1.290
11476	ENSG00000165650	PDZD8	-1.1	0.0012823	0.0071599	18.391	0.715	17.566	18.827	21.209	1.639	19.520	22.793
11477	ENSG00000121440	PDZRN3	-1.5	7.57E-07	1.521E-05	4.851	0.425	4.589	5.342	7.211	0.852	6.251	7.876
11479	ENSG00000162734	PEA15	1.4	1.98E-13	2.52E-11	103.006	4.946	97.377	106.656	72.623	1.146	71.451	73.741
11480	ENSG00000173517	PEAK1	-1.2	7.866E-06	0.0001089	7.794	0.311	7.534	8.138	9.505	0.577	9.103	10.166
11481	ENSG00000187800	PEAR1	1.4	0.0262717	0.0778438	1.000	0.046	0.961	1.051	0.715	0.175	0.562	0.905
11483	ENSG00000115425	PECR	1.1	0.094757	0.2056493	11.185	0.695	10.488	11.878	10.313	0.629	9.732	10.981
11484	ENSG00000242265	PEG10	1.3	1.22E-11	9.954E-10	74.498	4.687	69.463	78.736	57.651	0.499	57.191	58.182
11487	ENSG00000282164	PEG13	1.5	0.0053709	0.0223135	1.857	0.470	1.355	2.287	1.298	0.163	1.151	1.472
11491	ENSG00000139946	PELI2	-1.1	0.0389065	0.1046147	15.975	0.547	15.485	16.564	18.001	1.745	16.104	19.538
11492	ENSG00000174516	PELI3	1.4	0.0033249	0.0153016	3.168	0.384	2.732	3.460	2.318	0.439	1.870	2.749
11496	ENSG00000141456	PELP1	-1.1	0.004015	0.0178228	41.151	1.689	39.397	42.768	46.592	4.100	43.974	51.317
11497	ENSG00000124299	PEPD	1.3	9.358E-07	1.807E-05	38.767	1.867	36.700	40.330	31.716	1.449	30.055	32.719
11498	ENSG00000049246	PER3	1.2	0.0061225	0.0247511	9.141	1.588	7.310	10.142	7.872	0.378	7.604	8.304
11499	ENSG00000112378	PERP	1.3	1.207E-08	4.381E-07	69.630	3.240	66.088	72.446	56.306	2.979	54.034	59.680
11500	ENSG00000127980	PEX1	-1.1	0.021149	0.0659222	26.211	0.618	25.663	26.880	28.914	0.868	28.373	29.916
11501	ENSG00000157911	PEX10	1.2	0.0052049	0.0217737	17.487	1.061	16.639	18.677	15.358	1.432	13.742	16.470
11502	ENSG00000108733	PEX12	-1.2	0.0580273	0.1421516	7.560	0.599	6.868	7.915	9.024	0.914	8.091	9.916
11505	ENSG00000164751	PEX2	-1.1	0.0956585	0.2068626	19.564	1.258	18.285	20.799	21.637	0.705	20.836	22.167
11508	ENSG00000215193	PEX26	-1.1	0.0012171	0.0068756	5.830	0.226	5.664	6.088	6.790	0.316	6.506	7.131
11509	ENSG00000124587	PEX6	-1.1	0.035826	0.0985565	14.438	0.709	13.798	15.201	16.488	0.643	15.835	17.119
11511	ENSG00000112357	PEX7	1.2	0.0333986	0.0936921	17.945	0.987	17.299	19.081	15.882	1.235	15.064	17.302
11514	ENSG00000178921	PFAS	1.2	1.248E-06	2.28E-05	39.779	1.494	38.196	41.166	32.690	3.461	28.859	35.591
11515	ENSG00000143256	PFDN2	-1.2	0.0007966	0.0048526	163.663	2.880	160.833	166.590	194.744	18.480	178.239	214.710
11519	ENSG00000123836	PFKFB2	1.3	3.746E-09	1.596E-07	18.680	0.724	18.027	19.458	14.243	1.020	13.570	15.417

	A	B	C	D	E	F	G	H	I	J	K	L	M
11520	ENSG00000170525	PFKFB3	1.1	0.1169427	0.2384966	7.914	0.183	7.703	8.023	7.492	0.273	7.206	7.751
11521	ENSG00000141959	PFKL	-1.1	0.0531464	0.1330667	26.604	1.897	24.414	27.757	29.358	1.981	27.222	31.136
11524	ENSG00000067057	PFKP	1.1	0.0046141	0.0198792	68.770	1.095	67.699	69.887	64.316	2.310	62.324	66.848
11525	ENSG00000108518	PFN1	1	0.1143867	0.2345765	745.065	16.252	726.455	756.466	730.160	40.215	704.748	776.524
11526	ENSG00000070087	PFN2	1.1	0.0099653	0.0363395	193.224	10.224	182.324	202.602	182.766	10.158	176.494	194.485
11528	ENSG00000171314	PGAM1	-1.2	2.771E-06	4.484E-05	273.364	4.819	269.081	278.582	327.259	22.780	307.384	352.119
11531	ENSG00000257150	PGAM1P5	-1.4	0.0946653	0.2055293	1.147	0.153	1.007	1.310	1.589	0.181	1.410	1.771
11532	ENSG00000226784	PGAM4	-1.1	0.0167692	0.0550712	65.832	2.713	63.047	68.467	76.436	8.379	67.739	84.454
11534	ENSG00000197121	PGAP1	1.1	0.0014991	0.0080877	15.243	0.778	14.664	16.127	13.699	0.400	13.286	14.085
11535	ENSG00000148985	PGAP2	-1.1	0.0123198	0.0430773	15.252	0.118	15.161	15.385	17.688	1.135	16.508	18.771
11536	ENSG00000161395	PGAP3	1.2	0.0009863	0.0058002	10.281	0.568	9.698	10.832	8.467	0.091	8.369	8.550
11537	ENSG00000177614	PGBD5	1.2	0.0022099	0.0109637	5.557	0.449	5.042	5.865	4.809	0.137	4.680	4.953
11538	ENSG00000142657	PGD	1.1	0.0091489	0.0338591	287.605	5.521	282.800	293.636	274.933	7.666	266.957	282.246
11539	ENSG00000142102	PGGHG	-1.5	1.066E-09	5.168E-08	15.457	1.325	14.587	16.982	23.938	1.756	22.209	25.720
11540	ENSG00000164219	PGGT1B	-1.1	0.0801531	0.1815493	12.464	0.669	11.925	13.213	13.696	0.637	13.240	14.424
11547	ENSG00000102144	PGK1	-1.4	2.85E-05	0.0003199	183.788	1.621	181.919	184.803	257.316	32.354	227.740	291.871
11549	ENSG00000213290	PGK1P2	-1.3	0.1091426	0.2271912	5.306	0.681	4.663	6.020	6.952	1.092	5.774	7.931
11551	ENSG00000169299	PGM2	1.1	0.0051023	0.0214718	30.605	0.371	30.215	30.952	27.988	1.032	26.988	29.050
11552	ENSG00000165434	PGM2L1	-1.1	0.0706324	0.1648868	12.387	0.452	11.909	12.806	13.728	1.436	12.096	14.797
11554	ENSG00000013375	PGM3	-1.1	0.0017384	0.009128	35.252	0.361	34.843	35.525	40.095	2.330	37.506	42.023
11555	ENSG00000130517	PGPEP1	1.4	8.177E-10	4.116E-08	14.136	0.413	13.674	14.470	10.083	0.597	9.396	10.475
11557	ENSG00000101856	PGRMC1	1.2	3.97E-09	1.665E-07	405.940	4.973	401.849	411.475	340.715	15.366	324.642	355.260
11559	ENSG00000112137	PHACTR1	-1.2	0.033739	0.0943498	1.914	0.241	1.714	2.182	2.324	0.012	2.310	2.332
11561	ENSG00000164902	PHAX	-1.1	0.0049811	0.0210823	26.906	1.347	25.354	27.776	30.843	0.627	30.128	31.299
11563	ENSG00000111752	PHC1	-1.2	1.067E-08	3.956E-07	222.432	13.281	211.716	237.290	275.915	11.021	265.820	287.673
11564	ENSG00000179899	PHC1P1	-1.2	2.034E-07	5.036E-06	420.596	18.015	404.832	440.233	505.020	19.098	486.267	524.447
11567	ENSG00000130024	PHF10	-1.1	0.0133459	0.0460007	31.680	0.847	31.148	32.656	35.383	0.500	34.931	35.920
11568	ENSG00000136147	PHF11	1.1	0.1121167	0.2315574	4.671	0.931	3.904	5.707	4.174	0.246	3.896	4.363
11572	ENSG00000109118	PHF12	-1.1	0.0189335	0.0603965	9.668	0.059	9.626	9.736	10.844	0.593	10.237	11.423
11573	ENSG00000116273	PHF13	1.1	0.0865968	0.1925601	43.283	0.786	42.797	44.189	41.553	2.607	39.670	44.528
11574	ENSG00000106443	PHF14	-1.1	0.113509	0.2333205	25.942	0.756	25.119	26.608	27.961	1.422	26.476	29.311
11576	ENSG00000119403	PHF19	1.2	0.0091031	0.0337339	9.716	0.815	8.903	10.532	8.506	0.344	8.257	8.898
11577	ENSG00000025293	PHF20	-1	0.1177748	0.2397022	39.168	1.553	37.642	40.746	42.016	1.199	40.728	43.100
11578	ENSG00000129292	PHF20L1	1.1	0.002837	0.0134517	6.209	0.193	5.990	6.352	5.612	0.327	5.390	5.987
11579	ENSG00000040633	PHF23	1.1	0.0868553	0.1929826	31.385	0.333	31.089	31.746	29.678	2.130	28.043	32.087
11580	ENSG00000122733	PHF24	1.6	0.004044	0.0179187	1.249	0.356	0.838	1.461	0.787	0.138	0.641	0.915
11581	ENSG00000100410	PHF5A	-1.1	0.0413268	0.1096237	125.415	3.854	121.123	128.576	137.634	1.381	136.327	139.078
11582	ENSG00000156531	PHF6	-1.1	0.0170328	0.0556669	48.868	0.604	48.343	49.528	53.493	1.093	52.835	54.755
11583	ENSG00000010318	PHF7	-1.1	0.0745871	0.1717484	10.545	1.305	9.039	11.328	12.186	0.370	11.762	12.441
11584	ENSG00000172943	PHF8	-1.1	0.0501231	0.1271725	13.484	0.444	13.004	13.881	14.963	0.818	14.040	15.597
11585	ENSG00000092621	PHGDH	1.2	2.996E-06	4.773E-05	277.923	16.328	259.232	289.411	244.351	10.939	235.408	256.548
11586	ENSG00000067177	PHKA1	1.3	6.901E-06	9.703E-05	12.520	0.406	12.250	12.986	9.676	1.230	8.266	10.529
11587	ENSG00000232882	PHKA1P1	1.3	0.0672414	0.1590566	13.364	3.424	9.516	16.074	10.511	2.088	8.197	12.254

	A	B	C	D	E	F	G	H	I	J	K	L	M
11589	ENSG00000044446	PHKA2	1.1	0.0836286	0.1878367	18.272	0.663	17.775	19.025	17.537	0.549	17.190	18.171
11591	ENSG00000102893	PHKB	1.2	8.19E-05	0.000767	15.671	0.712	14.849	16.109	13.551	0.916	12.493	14.089
11593	ENSG00000156873	PHKG2	-1.1	0.0626603	0.1506643	5.457	0.263	5.178	5.702	6.179	0.164	6.023	6.349
11595	ENSG00000139289	PHLDA1	1.2	0.0007562	0.0046506	39.717	2.870	37.075	42.771	32.601	4.363	27.580	35.470
11596	ENSG00000181649	PHLDA2	2.7	5.77E-10	3.004E-08	16.744	3.525	14.040	20.730	6.353	0.715	5.529	6.815
11598	ENSG00000176531	PHLDB3	-1.4	0.0007978	0.004857	2.223	0.016	2.207	2.238	3.291	0.543	2.763	3.847
11599	ENSG00000081913	PHLPP1	-1.1	0.1103098	0.2289165	25.386	0.681	24.984	26.173	27.331	1.091	26.178	28.348
11600	ENSG00000070047	PHRF1	-1.2	0.0001201	0.0010496	19.682	1.010	18.852	20.807	23.762	1.392	22.182	24.806
11601	ENSG00000116793	PHTF1	1.4	6.887E-10	3.54E-08	14.190	0.860	13.506	15.156	9.998	0.740	9.147	10.492
11603	ENSG00000006576	PHTF2	-1.2	2.57E-05	0.0002933	11.814	0.556	11.415	12.449	14.682	0.975	13.687	15.635
11604	ENSG00000107537	PHYH	1.1	0.0011875	0.0067475	41.518	0.279	41.267	41.818	37.396	0.501	36.823	37.747
11606	ENSG00000175287	PHYHD1	1.3	0.0002062	0.0016303	11.060	0.162	10.937	11.244	8.539	1.005	7.385	9.228
11607	ENSG00000168490	PHYHIP	-1.3	0.0170609	0.0557371	4.404	0.457	4.072	4.925	5.646	0.956	4.544	6.243
11608	ENSG00000175309	PHYKPL	-1.1	0.0769299	0.1758977	5.212	0.207	5.078	5.451	5.884	0.053	5.822	5.919
11609	ENSG00000137558	PI15	-1.3	0.0353947	0.0977197	1.731	0.273	1.416	1.898	2.219	0.173	2.062	2.404
11610	ENSG00000155252	PI4K2A	1.1	0.0084159	0.0317579	17.350	0.769	16.636	18.163	15.469	0.715	14.829	16.241
11611	ENSG00000241973	PI4KA	1.3	7.871E-07	1.561E-05	12.673	0.476	12.134	13.037	10.133	0.719	9.623	10.955
11612	ENSG00000274602	PI4KAP1	-1.1	0.0559342	0.1383265	14.333	0.899	13.429	15.228	16.108	1.171	14.996	17.331
11613	ENSG00000078043	PIAS2	1.1	0.1003872	0.2137811	10.662	0.125	10.580	10.806	10.269	0.488	9.923	10.826
11614	ENSG00000105229	PIAS4	-1.1	0.0411125	0.1091803	20.140	1.406	18.559	21.249	22.839	2.285	20.488	25.051
11617	ENSG00000073921	PICALM	1.2	1.393E-05	0.0001762	57.581	1.686	56.473	59.521	50.893	2.337	48.802	53.416
11618	ENSG00000153823	PID1	1.5	0.001419	0.0077367	2.716	0.188	2.502	2.855	1.860	0.282	1.687	2.185
11620	ENSG00000177595	PIDD1	-1.1	0.0219725	0.0678389	14.738	1.234	13.694	16.100	16.909	1.702	14.950	18.028
11626	ENSG00000103335	PIEZO1	1.2	2.733E-05	0.0003086	14.398	0.918	13.425	15.248	11.807	0.863	10.854	12.535
11628	ENSG00000140451	PIF1	-1.2	2.874E-06	4.607E-05	51.891	4.212	49.056	56.730	65.131	4.827	59.571	68.257
11632	ENSG00000173947	PIFO	1.2	0.0003107	0.0022723	12.455	0.508	12.063	13.028	10.294	0.429	9.874	10.732
11633	ENSG00000174227	PIGG	-1.3	2.263E-06	3.763E-05	9.255	0.711	8.820	10.075	11.851	0.503	11.418	12.403
11636	ENSG00000142892	PIGK	1.1	0.0061822	0.0249424	21.977	1.069	21.037	23.139	19.967	0.502	19.493	20.494
11637	ENSG00000108474	PIGL	-1.2	0.0010777	0.0062505	9.070	0.093	8.970	9.153	11.120	0.270	10.838	11.375
11640	ENSG00000197563	PIGN	1.1	0.002057	0.0103725	5.909	0.294	5.569	6.080	5.309	0.071	5.227	5.353
11641	ENSG00000185808	PIGP	1.1	0.1132116	0.2330228	3.795	0.288	3.578	4.121	3.470	0.133	3.391	3.623
11642	ENSG00000007541	PIGQ	-1.1	0.0571738	0.1404882	4.790	0.562	4.411	5.436	5.541	0.402	5.089	5.855
11643	ENSG00000087111	PIGS	1.1	0.0482003	0.1234235	16.675	1.371	15.405	18.128	15.610	0.818	14.850	16.475
11645	ENSG00000101464	PIGU	-1.2	0.000203	0.0016147	26.475	0.084	26.382	26.544	32.807	1.950	31.462	35.043
11647	ENSG00000060642	PIGV	-1.1	0.0246256	0.0740959	12.836	0.919	12.136	13.876	14.951	0.090	14.853	15.029
11649	ENSG00000163964	PIGX	1.3	4.875E-06	7.278E-05	13.880	0.836	13.358	14.844	10.569	0.355	10.323	10.975
11650	ENSG00000011405	PIK3C2A	1	0.1002144	0.2135648	59.782	1.367	58.451	61.182	58.221	3.100	55.614	61.649
11652	ENSG00000078142	PIK3C3	1.1	0.0377477	0.1022956	8.303	0.390	7.921	8.700	7.822	0.343	7.522	8.195
11653	ENSG00000051382	PIK3CB	-1.1	0.0631724	0.1516245	25.534	0.700	24.730	26.012	28.031	2.448	26.035	30.762
11654	ENSG00000231789	PIK3CD-AS2	-1.3	0.0177384	0.0573741	10.729	0.775	10.070	11.582	14.127	1.659	12.825	15.996
11655	ENSG00000145675	PIK3R1	-1.2	0.0030908	0.0144564	2.935	0.091	2.852	3.032	3.610	0.218	3.428	3.851
11656	ENSG00000141506	PIK3R5	-1.2	0.0692362	0.1625023	2.532	0.131	2.422	2.677	3.006	0.328	2.752	3.376

	A	B	C	D	E	F	G	H	I	J	K	L	M
11657	ENSG00000115020	PIKFYVE	1.1	0.0014714	0.0079633	31.318	0.231	31.153	31.582	29.049	0.784	28.151	29.599
11660	ENSG00000121716	PILRB	-1.2	0.031655	0.0900708	3.507	0.662	2.997	4.255	4.296	0.261	4.015	4.531
11663	ENSG00000137193	PIM1	1.4	3.60E-13	4.26E-11	154.817	6.986	149.033	162.578	111.439	6.091	104.594	116.262
11665	ENSG00000102096	PIM2	-1.1	0.0167433	0.054997	107.307	3.717	104.918	111.590	118.431	6.206	112.487	124.870
11666	ENSG00000129195	PIMREG	-1.1	0.0792615	0.1801573	91.513	3.868	87.054	93.966	99.130	1.058	97.927	99.917
11668	ENSG00000127445	PIN1	-1.1	0.0888056	0.196127	21.355	1.251	19.919	22.209	23.437	1.035	22.792	24.631
11669	ENSG00000102309	PIN4	-1.1	0.0321987	0.0911669	18.930	1.109	17.686	19.816	21.401	1.409	19.940	22.752
11670	ENSG00000158828	PINK1	1.2	0.0048395	0.0206432	21.516	1.880	19.417	23.044	19.011	1.212	18.014	20.360
11672	ENSG00000234465	PINLYP	-1.4	0.0033464	0.0153674	3.042	0.352	2.754	3.435	4.205	0.647	3.785	4.950
11673	ENSG00000150867	PIP4K2A	-1.1	0.0616192	0.1485268	20.070	0.756	19.542	20.936	22.138	1.365	21.091	23.682
11674	ENSG00000276293	PIP4K2B	1.1	0.1174733	0.2393189	51.190	1.935	49.383	53.232	49.783	2.820	46.678	52.184
11676	ENSG00000166908	PIP4K2C	1.3	1.008E-05	0.0001343	29.971	1.868	27.954	31.641	24.352	1.522	22.596	25.268
11677	ENSG00000143398	PIP5K1A	-1.1	0.0067517	0.0267241	54.602	0.888	53.661	55.425	60.660	3.039	57.523	63.590
11678	ENSG00000107242	PIP5K1B	1.8	4.126E-07	9.183E-06	3.806	0.220	3.665	4.059	2.149	0.280	1.895	2.449
11679	ENSG00000186111	PIP5K1C	-1.1	0.098862	0.2116255	14.075	0.514	13.634	14.640	15.538	0.596	15.033	16.195
11680	ENSG00000167103	PIP5K1L	1.2	0.0124452	0.0434169	6.266	0.242	6.014	6.496	5.244	0.369	4.974	5.664
11682	ENSG00000241878	PISD	1.2	0.0008328	0.0050361	23.933	0.975	22.815	24.604	21.244	0.771	20.552	22.075
11683	ENSG00000174238	PITPNA	1.2	3.49E-05	0.0003785	43.591	1.595	42.572	45.429	38.173	1.417	36.663	39.474
11685	ENSG00000236618	PITPNA-AS1	-1.1	0.110701	0.229503	42.712	4.074	38.483	46.612	49.267	4.732	43.861	52.653
11686	ENSG00000154217	PITPNC1	-1.1	0.0537917	0.1343243	10.381	0.574	9.882	11.009	11.586	0.978	10.487	12.362
11687	ENSG00000090975	PITPNM2	1.3	0.0431205	0.1132624	0.938	0.138	0.806	1.081	0.736	0.191	0.576	0.947
11688	ENSG00000091622	PITPNM3	1.2	0.0017759	0.0092589	5.232	0.579	4.579	5.682	4.380	0.251	4.090	4.541
11690	ENSG00000107959	PITRM1	1.2	0.000997	0.0058548	17.472	0.776	16.779	18.311	15.484	0.193	15.261	15.599
11692	ENSG00000181191	PJA1	1.1	0.0017602	0.0092137	47.308	3.330	43.957	50.618	42.528	2.011	41.195	44.841
11693	ENSG00000198961	PJA2	-1.1	0.0002245	0.0017516	74.527	0.574	73.879	74.969	85.641	3.305	82.308	88.917
11694	ENSG00000008710	PKD1	-1.1	0.0090922	0.0337007	7.476	0.221	7.339	7.731	8.705	0.885	8.186	9.727
11695	ENSG00000166473	PKD1L2	1.3	6.922E-06	9.723E-05	4.213	0.103	4.096	4.293	3.197	0.426	2.775	3.627
11696	ENSG00000244257	PKD1P1	-1.4	0.0025802	0.0124828	1.704	0.123	1.606	1.842	2.358	0.210	2.177	2.588
11697	ENSG00000254681	PKD1P5	-1.3	1.337E-05	0.0001707	4.346	0.096	4.268	4.454	5.903	0.534	5.422	6.477
11698	ENSG00000250251	PKD1P6	-1.2	0.0029308	0.0138054	14.819	0.073	14.768	14.902	17.721	1.602	15.880	18.804
11699	ENSG00000118762	PKD2	1.2	8.02E-06	0.0001105	27.642	0.831	26.774	28.430	23.114	0.178	22.928	23.282
11702	ENSG00000171033	PKIA	1.2	0.0011754	0.0066937	13.596	0.227	13.393	13.842	11.763	0.303	11.574	12.113
11705	ENSG00000135549	PKIB	1.3	1.501E-05	0.0001861	18.081	1.021	17.321	19.242	14.094	1.543	12.806	15.804
11706	ENSG00000168734	PKIG	1.3	0.0003274	0.0023683	20.869	1.120	19.710	21.946	17.014	1.339	15.579	18.230
11707	ENSG00000143627	PKLR	1.2	0.0936733	0.2037942	5.207	0.712	4.568	5.975	4.437	0.966	3.322	5.018
11708	ENSG00000067225	PKM	-1.1	0.0002534	0.0019311	318.493	4.817	314.143	323.671	358.999	17.060	343.714	377.404
11713	ENSG00000065243	PKN2	-1.1	0.0282264	0.0823803	29.881	1.136	28.640	30.869	32.921	1.342	31.704	34.360
11715	ENSG00000160199	PKNOX1	1.1	0.04648	0.1201095	10.542	0.472	10.016	10.928	9.861	0.146	9.748	10.026
11716	ENSG00000165495	PKNOX2	-1.5	0.0019155	0.0098293	0.960	0.166	0.813	1.139	1.498	0.164	1.316	1.634
11717	ENSG00000057294	PKP2	1.2	4.2E-05	0.0004437	25.505	0.809	24.887	26.420	22.113	1.661	20.540	23.849
11718	ENSG00000184363	PKP3	-1.2	0.0741745	0.1710544	3.885	0.226	3.698	4.135	4.725	1.274	3.349	5.864
11719	ENSG00000103066	PLA2G15	1.2	0.02615	0.0775786	6.437	0.189	6.241	6.619	5.595	0.366	5.197	5.914

	A	B	C	D	E	F	G	H	I	J	K	L	M
11720	ENSG00000176485	PLA2G16	2.2	3.19E-22	3.00E-19	110.616	3.899	106.753	114.550	51.640	3.378	49.640	55.540
11722	ENSG00000100078	PLA2G3	1.5	1.033E-10	6.644E-09	31.252	0.941	30.273	32.150	21.132	1.939	19.348	23.196
11723	ENSG00000105499	PLA2G4C	1.3	0.0001653	0.0013671	5.106	0.346	4.826	5.492	4.010	0.246	3.735	4.210
11725	ENSG00000184381	PLA2G6	-1.1	0.1215636	0.2453174	7.973	0.609	7.450	8.642	8.883	0.327	8.679	9.261
11726	ENSG00000146070	PLA2G7	1.2	0.0502948	0.1275699	8.753	1.274	7.943	10.222	7.493	0.805	6.870	8.402
11727	ENSG00000104368	PLAT	2.5	5.926E-09	2.37E-07	2.550	0.559	2.161	3.190	1.039	0.187	0.832	1.197
11728	ENSG00000122861	PLAU	1.5	4.417E-09	1.831E-07	43.577	2.624	41.362	46.475	30.622	3.314	26.954	33.400
11729	ENSG00000011422	PLAUR	1.2	0.0428152	0.1125829	6.302	0.293	5.983	6.559	5.584	0.465	5.053	5.916
11730	ENSG00000151176	PLBD2	1.2	7.381E-05	0.0007061	27.466	1.109	26.301	28.509	23.558	1.023	22.675	24.679
11733	ENSG00000101333	PLCB4	1.2	5.624E-05	0.0005638	11.665	0.354	11.412	12.070	9.697	0.163	9.543	9.868
11734	ENSG00000187091	PLCD1	-1.1	0.0358504	0.0985914	11.548	0.219	11.336	11.773	13.334	0.637	12.780	14.030
11735	ENSG00000197943	PLCG2	1.1	0.1204122	0.2435289	3.742	0.217	3.520	3.953	3.472	0.322	3.110	3.727
11736	ENSG00000114805	PLCH1	-1.1	0.1056447	0.2217109	8.108	0.410	7.683	8.501	9.008	0.171	8.812	9.120
11737	ENSG00000154822	PLCL2	-1.4	1.519E-08	5.352E-07	19.520	2.110	17.805	21.877	28.136	0.427	27.644	28.409
11739	ENSG00000182378	PLCXD1	-1.1	3.994E-05	0.0004256	41.596	1.263	40.256	42.763	48.602	1.082	47.851	49.843
11740	ENSG00000240891	PLCXD2	-1.2	0.0132576	0.0457698	1.953	0.156	1.776	2.074	2.435	0.161	2.248	2.529
11741	ENSG00000105223	PLD3	1.1	0.001745	0.0091572	70.883	4.211	66.246	74.468	64.803	4.085	62.196	69.511
11742	ENSG00000052126	PLEKHA5	-1.1	0.0104421	0.037793	20.360	0.717	19.551	20.917	22.537	0.835	22.047	23.501
11743	ENSG00000143850	PLEKHA6	1.2	0.0031907	0.0147971	4.620	0.290	4.295	4.852	3.913	0.174	3.802	4.113
11744	ENSG00000166689	PLEKHA7	1.3	8.027E-06	0.0001105	7.281	0.240	7.046	7.526	5.775	0.259	5.555	6.061
11745	ENSG00000021300	PLEKHB1	-1.3	0.0010886	0.0063013	6.099	1.036	5.238	7.248	7.932	0.302	7.736	8.280
11750	ENSG00000115762	PLEKHB2	-1.1	0.0033126	0.0152567	50.718	1.204	49.510	51.918	56.717	1.822	54.810	58.440
11751	ENSG00000175895	PLEKHF2	1.2	0.0209424	0.065435	11.518	1.064	10.401	12.519	10.124	0.828	9.223	10.853
11752	ENSG00000090924	PLEKHG2	1.1	0.0415481	0.1100725	12.975	0.449	12.534	13.432	12.124	0.855	11.464	13.090
11754	ENSG00000126822	PLEKHG3	1.1	0.0021182	0.0106062	13.912	0.999	12.762	14.561	12.647	0.406	12.179	12.905
11756	ENSG00000196155	PLEKHG4	1.2	0.0184306	0.0591718	8.753	0.825	7.878	9.516	7.763	0.870	6.787	8.456
11757	ENSG00000171680	PLEKHG5	-1.3	5.476E-07	1.168E-05	9.739	0.745	8.882	10.224	13.164	0.398	12.839	13.608
11759	ENSG00000008323	PLEKHG6	-1.3	1.01E-05	0.0001345	10.280	0.355	9.988	10.675	14.059	0.987	12.942	14.808
11760	ENSG00000054690	PLEKHH1	1.1	0.0306042	0.0875967	14.962	0.185	14.834	15.174	14.144	0.513	13.797	14.733
11761	ENSG00000068137	PLEKHH3	-1.3	2.2E-05	0.0002582	12.663	0.730	12.128	13.495	16.537	0.440	16.122	16.998
11762	ENSG00000104886	PLEKHJ1	-1.1	0.0016999	0.008971	33.058	0.866	32.069	33.684	37.967	0.955	37.032	38.940
11763	ENSG00000225190	PLEKHM1	-1.1	0.104273	0.2197319	2.652	0.026	2.630	2.680	3.041	0.368	2.632	3.345
11767	ENSG00000116786	PLEKHM2	-1.1	0.0015491	0.008315	38.158	1.268	36.867	39.401	44.500	3.773	40.614	48.149
11768	ENSG00000023902	PLEKHO1	1.2	0.0051076	0.0214812	8.986	0.464	8.669	9.519	7.787	1.049	6.931	8.958
11770	ENSG00000241839	PLEKHO2	1.1	0.0611761	0.1478525	16.881	0.208	16.674	17.090	15.767	0.446	15.321	16.213
11772	ENSG00000107020	PLGRKT	1.2	0.0059125	0.0241233	32.971	0.102	32.853	33.030	28.587	0.778	27.721	29.227
11773	ENSG00000166851	PLK1	-1.5	2.18E-13	2.73E-11	56.849	4.210	52.082	60.058	85.279	4.337	80.292	88.177
11774	ENSG00000142731	PLK4	-1.1	0.0013408	0.007406	37.524	1.940	35.303	38.892	43.458	2.558	40.644	45.643
11775	ENSG00000083444	PLOD1	1.2	1.104E-06	2.074E-05	35.968	1.426	35.052	37.610	30.169	0.938	29.516	31.244
11776	ENSG00000152952	PLOD2	1.1	0.0040781	0.018032	17.697	1.313	16.907	19.214	16.096	0.685	15.607	16.879
11778	ENSG00000106397	PLOD3	1.1	0.0268726	0.0791393	14.835	0.790	14.042	15.621	13.441	1.440	12.405	15.086
11779	ENSG00000123560	PLP1	-1.2	0.003154	0.0146819	39.413	4.535	34.227	42.635	48.561	4.685	43.905	53.274
11781	ENSG00000067113	PLPP1	1.4	5.551E-09	2.257E-07	79.336	3.973	74.921	82.622	59.504	3.803	56.466	63.770

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11782	ENSG00000141934	PLPP2	1.1	0.0169145	0.0554192	9.155	0.260	8.979	9.454	8.264	0.177	8.065	8.404
11784	ENSG00000162407	PLPP3	-1.2	1.17E-06	2.161E-05	29.144	0.666	28.378	29.594	37.014	1.379	35.475	38.138
11785	ENSG00000147535	PLPP5	-1.2	0.0002606	0.0019756	24.656	1.715	23.072	26.477	30.286	0.431	29.854	30.717
11788	ENSG00000205808	PLPP6	1.1	0.1097494	0.2280614	24.653	0.268	24.389	24.925	23.280	0.332	22.897	23.474
11789	ENSG00000160539	PLPP7	-1.2	0.0526612	0.1322236	4.431	0.415	4.013	4.844	5.564	0.978	4.985	6.694
11790	ENSG00000105520	PLPPR2	-1.5	6.639E-05	0.0006472	4.390	0.289	4.060	4.597	6.641	0.706	6.017	7.407
11791	ENSG00000129951	PLPPR3	-1.3	0.0003166	0.002309	21.886	0.416	21.438	22.261	28.745	4.617	25.146	33.950
11792	ENSG00000117600	PLPPR4	1.2	0.1084873	0.226217	1.088	0.099	0.986	1.183	0.893	0.036	0.869	0.934
11793	ENSG00000102024	PLS3	1.2	5.575E-07	1.182E-05	434.217	11.747	420.786	442.570	382.646	8.831	373.389	390.978
11796	ENSG00000188313	PLSCR1	1.2	0.0004061	0.0028243	24.763	0.891	23.755	25.447	21.346	1.568	19.568	22.534
11800	ENSG00000114698	PLSCR4	1.2	0.0269355	0.0793106	3.575	0.245	3.318	3.807	2.951	0.391	2.664	3.395
11801	ENSG00000161381	PLXDC1	1.4	0.0527805	0.132425	0.501	0.114	0.382	0.610	0.365	0.090	0.306	0.469
11802	ENSG00000120594	PLXDC2	1.2	5.294E-06	7.813E-05	15.693	0.943	14.843	16.707	13.158	0.833	12.345	14.010
11804	ENSG00000130827	PLXNA3	-1.2	0.0008921	0.0053163	3.348	0.160	3.230	3.530	4.190	0.247	3.919	4.403
11807	ENSG00000221866	PLXNA4	-1.4	0.0322885	0.0913814	0.199	0.030	0.164	0.217	0.296	0.050	0.247	0.347
11808	ENSG00000164050	PLXNB1	-1.1	0.0026847	0.0129067	26.708	1.308	25.682	28.181	30.590	2.678	28.206	33.488
11809	ENSG00000198753	PLXNB3	-1.4	0.0802617	0.1817258	0.408	0.078	0.319	0.464	0.583	0.056	0.548	0.647
11810	ENSG00000004399	PLXND1	1.2	8.114E-05	0.0007611	25.851	0.827	25.183	26.776	22.444	2.327	20.891	25.119
11812	ENSG00000185664	PMEL	1.9	1.34E-22	1.51E-19	183.789	7.867	174.706	188.399	101.429	2.023	99.294	103.317
11814	ENSG00000140464	PML	-1.2	0.0084633	0.0319082	5.559	0.132	5.459	5.708	6.552	0.739	5.951	7.377
11815	ENSG00000109099	PMP22	-1.4	0.0493224	0.1257447	1.587	0.135	1.465	1.732	2.283	0.621	1.593	2.796
11817	ENSG00000122512	PMS2	1.1	0.0574678	0.1410876	14.024	0.527	13.456	14.498	12.833	1.194	12.020	14.204
11818	ENSG00000078319	PMS2P1	-1.2	0.0494774	0.1260257	17.629	1.970	15.434	19.246	20.825	1.301	19.430	22.004
11819	ENSG00000127957	PMS2P3	-1.3	0.018801	0.0600305	5.347	0.528	4.943	5.944	7.088	0.514	6.519	7.517
11820	ENSG00000130822	PNCK	-1.3	0.0206671	0.0647182	1.913	0.579	1.428	2.554	2.604	0.286	2.360	2.918
11821	ENSG00000132424	PNISR	-1.1	0.0026348	0.0127158	125.621	1.720	124.376	127.583	143.831	8.148	135.407	151.672
11823	ENSG00000240694	PNMA2	1.9	2.038E-10	1.231E-08	6.313	1.014	5.213	7.210	3.355	0.282	3.081	3.644
11825	ENSG00000183837	PNMA3	1.4	0.0003492	0.0024987	6.273	1.005	5.160	7.115	4.592	0.411	4.252	5.049
11826	ENSG00000235961	PNMA6A	1.3	0.0663593	0.1574102	3.376	0.372	3.041	3.777	2.613	0.791	1.700	3.080
11827	ENSG00000182013	PNMA8A	1.1	0.0510655	0.1290603	41.429	1.141	40.387	42.648	39.380	1.502	37.974	40.962
11828	ENSG00000100941	PNN	1.1	0.0034235	0.0156701	273.709	3.237	270.582	277.046	257.183	7.133	251.065	265.018
11829	ENSG00000115946	PNO1	1.1	0.0131123	0.0453328	47.577	2.518	45.854	50.466	44.031	2.923	41.410	47.183
11830	ENSG00000198805	PNP	1.3	1.546E-08	5.436E-07	45.200	0.457	44.768	45.678	36.351	1.027	35.482	37.483
11833	ENSG00000177666	PNPLA2	-1.1	0.0596275	0.1450007	20.040	0.897	19.190	20.977	22.642	2.668	21.014	25.721
11834	ENSG00000100344	PNPLA3	1.6	4.985E-09	2.041E-07	16.134	1.423	14.527	17.233	10.584	0.698	9.837	11.220
11838	ENSG00000006757	PNPLA4	1.1	0.0054231	0.022486	25.400	1.302	23.899	26.238	22.838	0.854	22.226	23.813
11840	ENSG00000032444	PNPLA6	-1.2	0.0013572	0.0074695	26.844	1.219	26.080	28.250	31.687	3.758	28.991	35.980
11841	ENSG00000108439	PNPO	1.2	0.0283484	0.0826364	14.325	0.741	13.469	14.769	12.626	1.491	11.083	14.059
11842	ENSG00000189266	PNRC2	-1.1	0.0877029	0.1943044	137.515	5.675	132.734	143.787	147.741	3.384	144.438	151.201
11843	ENSG00000228217	PNRC2P1	-1.2	0.0242002	0.0731149	33.033	0.694	32.362	33.747	41.126	1.864	39.195	42.914
11844	ENSG00000132000	PODNL1	-1.4	0.1187336	0.2409559	0.604	0.107	0.496	0.709	0.838	0.191	0.681	1.051
11845	ENSG00000186866	POFUT2	-1.1	0.0159682	0.0530799	19.010	0.365	18.689	19.406	21.464	0.606	20.982	22.145
11846	ENSG00000143442	POGZ	-1.1	0.002793	0.0133173	34.834	1.686	33.160	36.532	39.088	1.624	37.237	40.272

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11851	ENSG00000101868	POLA1	1.1	0.0308623	0.0882459	49.605	0.652	48.909	50.203	47.389	2.332	45.883	50.075
11853	ENSG00000004142	POLDIP2	1.1	0.0406734	0.1084058	95.921	2.738	92.791	97.873	91.474	3.768	87.653	95.186
11855	ENSG00000177084	POLE	1.1	0.0998839	0.2130847	14.932	0.494	14.392	15.362	14.417	0.917	13.394	15.166
11857	ENSG00000140521	POLG	-1.2	1.088E-07	2.927E-06	33.452	1.760	31.554	35.029	42.459	2.288	40.928	45.089
11859	ENSG00000256525	POLG2	-1.2	0.0009095	0.0054008	22.603	1.104	21.498	23.707	27.283	1.628	25.440	28.529
11861	ENSG00000170734	POLH	-1.3	0.0002241	0.0017487	15.703	1.400	14.565	17.267	20.180	2.311	17.548	21.874
11863	ENSG00000166169	POLL	-1.1	0.0399697	0.1069294	15.115	0.978	14.002	15.833	16.929	0.811	16.390	17.862
11864	ENSG00000122678	POLM	-1.3	0.000369	0.0026159	7.295	0.287	7.039	7.606	9.676	1.495	8.514	11.363
11865	ENSG00000130997	POLN	-1.4	0.121051	0.2444579	0.211	0.069	0.153	0.287	0.310	0.032	0.282	0.344
11866	ENSG00000051341	POLQ	-1.2	6.458E-05	0.0006325	13.205	0.635	12.644	13.894	15.925	0.540	15.332	16.387
11867	ENSG00000068654	POLR1A	1.1	0.0038302	0.0171377	17.056	0.437	16.611	17.485	15.844	0.328	15.530	16.185
11869	ENSG00000186184	POLR1D	-1.1	0.0001978	0.0015817	26.749	0.315	26.385	26.940	30.693	0.557	30.052	31.060
11870	ENSG00000137054	POLR1E	-1.1	0.093974	0.2043605	31.507	0.681	30.760	32.092	34.571	1.012	33.484	35.486
11871	ENSG00000181222	POLR2A	-1.2	4.616E-07	1.01E-05	64.667	3.083	61.108	66.495	78.315	3.586	75.424	82.327
11872	ENSG00000047315	POLR2B	-1.1	0.0001436	0.0012153	101.752	3.385	99.424	105.636	116.520	4.422	113.402	121.581
11873	ENSG00000144231	POLR2D	-1.1	0.0354565	0.097784	28.784	1.086	27.535	29.506	31.817	2.160	29.746	34.057
11874	ENSG00000099817	POLR2E	-1.1	0.0037372	0.0167971	53.547	1.438	51.899	54.541	60.145	2.808	57.683	63.203
11875	ENSG00000163882	POLR2H	-1.2	0.0001888	0.0015246	48.052	2.004	46.726	50.357	56.570	0.961	55.584	57.503
11876	ENSG00000168255	POLR2J3	1.1	0.091951	0.2013162	2.643	0.178	2.464	2.821	2.385	0.070	2.323	2.460
11877	ENSG00000255529	POLR2M	1.1	0.0497783	0.1265254	14.810	0.572	14.323	15.440	13.775	0.144	13.608	13.861
11878	ENSG00000148606	POLR3A	-1.1	0.0997759	0.212908	21.468	0.512	20.879	21.804	23.173	1.276	22.234	24.625
11879	ENSG00000013503	POLR3B	1.1	0.033843	0.09457	8.610	0.692	7.811	9.032	7.676	0.561	7.248	8.312
11880	ENSG00000186141	POLR3C	1.1	0.1086706	0.2265433	19.062	1.706	17.339	20.750	17.711	1.437	16.312	19.183
11881	ENSG00000168495	POLR3D	-1.3	3.008E-08	9.689E-07	25.996	1.138	24.682	26.685	34.373	0.502	33.794	34.703
11882	ENSG00000132664	POLR3F	1.1	0.0443907	0.1158968	19.405	1.313	18.063	20.688	17.684	1.917	16.452	19.892
11883	ENSG00000113356	POLR3G	1.4	0.0002108	0.0016617	125.769	12.371	118.105	140.040	90.982	4.518	88.295	96.198
11885	ENSG00000121851	POLR3GL	1.3	0.0103725	0.0375655	12.222	2.615	10.594	15.238	9.781	1.111	8.520	10.618
11887	ENSG00000268295	POLR3GP1	1.7	0.0008956	0.0053334	19.260	1.941	18.017	21.496	11.251	0.464	10.761	11.685
11889	ENSG00000266984	POLR3GP2	1.5	0.0380798	0.1029775	4.899	1.256	3.680	6.189	3.269	1.004	2.209	4.205
11891	ENSG00000161980	POLR3K	-1.1	0.0468582	0.1208283	31.500	1.992	29.232	32.968	35.513	1.866	33.366	36.752
11892	ENSG00000099821	POLRMT	-1.2	0.0010326	0.0060325	29.801	0.285	29.472	29.981	35.082	3.386	32.763	38.968
11894	ENSG00000185900	POMK	-1.3	0.0007095	0.0044142	8.442	0.439	7.937	8.737	11.654	0.937	10.756	12.625
11895	ENSG00000146707	POMZP3	1.2	0.0042853	0.0187571	19.069	1.902	16.899	20.442	15.834	1.132	14.729	16.990
11896	ENSG00000104356	POP1	1.1	0.0318828	0.0905514	7.795	0.431	7.394	8.252	7.002	0.387	6.742	7.446
11898	ENSG00000127948	POR	-1.2	3.199E-06	5.032E-05	34.568	0.817	33.626	35.077	42.544	2.031	41.230	44.883
11899	ENSG00000133110	POSTN	1.3	0.1053584	0.2212473	0.642	0.064	0.568	0.682	0.488	0.054	0.455	0.550
11901	ENSG00000188219	POTEE	1.4	0.001951	0.0099747	4.323	0.574	3.896	4.975	3.167	0.164	2.987	3.309
11903	ENSG00000222038	POTEJ	1.3	0.0907956	0.1997432	1.596	0.151	1.426	1.714	1.266	0.168	1.119	1.449
11904	ENSG00000143190	POU2F1	1.1	0.0407989	0.108598	28.262	1.022	27.236	29.280	27.197	0.683	26.460	27.809
11905	ENSG00000137709	POU2F3	1.4	0.0324365	0.091693	0.706	0.081	0.622	0.785	0.503	0.046	0.452	0.541
11907	ENSG00000185668	POU3F1	-1.7	1.713E-06	2.965E-05	5.201	0.699	4.397	5.662	9.014	1.034	7.822	9.668

	A	B	C	D	E	F	G	H	I	J	K	L	M
11908	ENSG00000196767	POU3F4	-8.3	1.728E-07	4.408E-06	0.076	0.000	0.076	0.077	0.682	0.144	0.559	0.841
11909	ENSG00000204531	POU5F1	1.1	0.009028	0.033507	765.553	16.267	755.096	784.295	734.767	27.795	706.133	761.639
11910	ENSG00000212993	POU5F1B	1.1	0.0028436	0.0134716	97.302	3.512	93.270	99.689	91.286	2.354	88.643	93.156
11911	ENSG00000235602	POU5F1P3	1.1	0.0357749	0.0984318	417.565	15.407	407.734	435.322	400.660	15.082	386.088	416.206
11912	ENSG00000106536	POU6F2	-1.2	0.0363675	0.099676	1.350	0.145	1.221	1.507	1.714	0.155	1.585	1.886
11914	ENSG00000180817	PPA1	-1.1	0.0011715	0.0066822	49.911	2.093	47.496	51.195	56.967	1.679	55.050	58.177
11915	ENSG00000155846	PPARGC1B	1.1	0.0176323	0.0570747	3.850	0.126	3.725	3.976	3.457	0.096	3.385	3.567
11916	ENSG00000128059	PPAT	-1.1	0.0062994	0.0253077	65.881	0.852	65.244	66.848	73.263	1.403	72.032	74.791
11917	ENSG00000241293	PPATP1	-1.2	0.0441951	0.1155647	11.218	0.613	10.689	11.890	13.467	1.237	12.190	14.659
11920	ENSG00000127125	PPCS	1.2	0.0007409	0.0045734	38.522	1.458	37.045	39.961	33.735	0.656	33.218	34.473
11921	ENSG00000125534	PPDPF	-1.1	0.1126408	0.2321654	107.326	6.323	100.814	113.441	119.575	11.128	111.360	132.239
11922	ENSG00000177380	PPFIA3	-1.2	0.0011423	0.0065379	7.170	0.392	6.721	7.443	8.758	0.211	8.589	8.995
11923	ENSG00000143847	PPFIA4	-1.7	1.096E-08	4.046E-07	2.142	0.261	1.840	2.302	3.757	0.450	3.438	4.272
11924	ENSG00000166387	PPFIBP2	-1.3	0.0004666	0.0031614	3.249	0.143	3.129	3.408	4.188	0.373	3.973	4.619
11925	ENSG00000134283	PPHLN1	-1.1	0.0175527	0.056867	13.724	0.495	13.201	14.184	15.248	0.580	14.578	15.583
11927	ENSG00000166794	PPIB	1.1	0.0393584	0.105645	337.604	2.365	335.526	340.178	327.442	4.879	322.334	332.053
11928	ENSG00000171497	PPID	1.1	0.0145841	0.0493718	63.898	1.561	62.141	65.126	59.446	3.074	56.164	62.258
11930	ENSG00000084072	PPIE	-1.1	0.0051423	0.0215971	12.819	0.954	11.722	13.454	14.879	0.211	14.640	15.037
11931	ENSG00000137168	PPIL1	1.1	0.0367339	0.1004008	144.612	3.293	141.527	148.080	138.696	1.457	137.290	140.199
11932	ENSG00000185250	PPIL6	1.9	0.0008616	0.0051802	1.036	0.242	0.758	1.197	0.541	0.150	0.372	0.658
11933	ENSG00000118898	PPL	1.2	0.000104	0.0009321	29.991	0.660	29.425	30.717	26.293	2.054	24.489	28.529
11934	ENSG00000138032	PPM1B	1.3	2.148E-10	1.288E-08	101.897	3.995	97.366	104.913	81.297	1.132	80.324	82.539
11935	ENSG00000170836	PPM1D	-1.2	0.0004342	0.0029832	11.743	1.649	10.663	13.640	14.935	1.399	13.547	16.345
11936	ENSG00000175175	PPM1E	-1.2	0.0007364	0.0045539	16.876	0.662	16.137	17.412	19.913	0.873	18.967	20.689
11938	ENSG00000100034	PPM1F	-1.1	0.0485363	0.1241711	9.880	0.409	9.427	10.221	10.988	0.809	10.273	11.866
11942	ENSG00000111110	PPM1H	-1.1	0.1030281	0.217852	29.087	0.376	28.722	29.473	31.508	1.710	29.574	32.817
11943	ENSG00000155367	PPM1J	-1.3	4.552E-05	0.000474	15.305	2.095	13.622	17.651	20.613	2.264	18.913	23.182
11946	ENSG00000163644	PPM1K	-1.1	0.0467291	0.1205873	4.853	0.304	4.520	5.116	5.600	0.395	5.213	6.003
11948	ENSG00000214517	PPME1	1.1	0.0243702	0.0735368	16.462	0.574	15.864	17.008	15.389	0.422	15.093	15.873
11949	ENSG00000213639	PPP1CB	1.1	0.0002828	0.0021119	93.101	0.768	92.509	93.969	84.488	2.368	81.838	86.399
11952	ENSG00000186298	PPP1CC	-1.2	9.718E-10	4.764E-08	203.252	1.568	201.883	204.962	250.286	5.450	244.013	253.859
11954	ENSG00000204569	PPP1R10	-1.1	0.0345088	0.0959	29.768	2.475	27.197	32.134	33.049	0.765	32.193	33.666
11958	ENSG00000257557	PPP1R12A-AS1	1.8	5.118E-05	0.0005215	2.854	0.303	2.626	3.198	1.643	0.043	1.596	1.681
11960	ENSG00000125503	PPP1R12C	-1.1	0.1017696	0.2159093	12.009	0.248	11.741	12.230	13.119	0.285	12.844	13.414
11962	ENSG00000088808	PPP1R13B	1.3	0.0022484	0.0111254	3.353	0.567	2.714	3.794	2.632	0.360	2.273	2.992
11963	ENSG00000104881	PPP1R13L	-1.2	0.0018798	0.0096871	5.082	0.159	4.944	5.255	6.466	0.237	6.203	6.666
11965	ENSG00000167641	PPP1R14A	-1.3	0.0030147	0.0141513	8.489	1.222	7.087	9.330	11.494	0.380	11.118	11.878
11967	ENSG00000179967	PPP1R14B P3	-1.1	0.0312313	0.08903	237.221	14.569	223.326	252.381	265.025	8.945	258.366	275.192

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11968	ENSG00000087074	PPP1R15A	1.3	1.946E-05	0.0002324	22.684	0.823	21.767	23.357	18.271	0.785	17.373	18.831
11971	ENSG00000158615	PPP1R15B	-1.1	0.0030943	0.0144687	44.620	2.239	42.991	47.174	50.894	3.732	46.854	54.214
11972	ENSG00000160972	PPP1R16A	-1.3	0.0005676	0.0037106	5.963	0.255	5.669	6.113	7.705	0.683	7.286	8.493
11973	ENSG00000101445	PPP1R16B	-1.1	0.0429728	0.112927	7.483	0.245	7.272	7.751	8.525	0.662	7.797	9.091
11976	ENSG00000135447	PPP1R1A	-1.5	0.0001227	0.0010684	3.646	0.391	3.228	4.003	5.461	0.420	5.113	5.928
11977	ENSG00000131771	PPP1R1B	-2.4	2.435E-09	1.078E-07	1.985	0.394	1.653	2.421	4.790	0.716	4.141	5.559
11978	ENSG00000196422	PPP1R26	-1.1	0.0124	0.0433041	29.517	1.144	28.208	30.326	33.201	2.321	31.473	35.839
11981	ENSG00000162148	PPP1R32	-1.2	0.0652657	0.1552595	3.723	0.682	3.199	4.494	4.675	0.295	4.335	4.868
11984	ENSG00000160813	PPP1R35	-1.1	0.0594128	0.1445617	41.588	4.608	38.584	46.893	47.641	2.464	45.923	50.464
11985	ENSG00000173281	PPP1R3B	-1.2	9.501E-05	0.0008672	42.415	1.922	41.027	44.608	50.014	0.692	49.403	50.765
11986	ENSG00000235194	PPP1R3E	1.2	0.0697784	0.1634121	3.454	0.524	2.849	3.786	3.008	0.214	2.771	3.185
11987	ENSG00000049769	PPP1R3F	-1.2	0.0470518	0.1212904	4.673	0.463	4.356	5.204	5.656	1.081	4.912	6.896
11988	ENSG00000115685	PPP1R7	1.2	0.0007215	0.0044762	34.754	1.623	33.582	36.606	30.658	2.142	29.121	33.105
11989	ENSG00000158528	PPP1R9A	1.1	0.0484332	0.1239447	11.592	0.481	11.109	12.070	10.964	0.443	10.701	11.476
11990	ENSG00000108819	PPP1R9B	-1.1	0.0494086	0.1258884	11.061	0.618	10.572	11.756	12.726	1.512	11.338	14.337
11994	ENSG00000105568	PPP2R1A	-1.1	0.0033325	0.0153118	97.930	4.805	92.494	101.612	109.367	3.890	106.725	113.835
11995	ENSG00000137713	PPP2R1B	1.1	0.0218355	0.0675391	36.524	0.756	35.660	37.065	34.729	1.442	33.700	36.377
11996	ENSG00000221914	PPP2R2A	-1.1	0.0991126	0.2120279	33.635	0.577	33.096	34.244	36.211	1.948	33.963	37.367
11997	ENSG00000074211	PPP2R2C	1.3	0.0002535	0.0019311	4.327	0.337	3.949	4.594	3.388	0.139	3.265	3.538
11999	ENSG00000175470	PPP2R2D	-1.1	0.0148069	0.0499262	9.701	0.643	9.124	10.394	11.152	0.879	10.392	12.114
12000	ENSG00000167393	PPP2R3B	-1.2	0.0004285	0.0029523	11.567	0.207	11.370	11.783	14.017	1.314	12.662	15.284
12001	ENSG00000066027	PPP2R5A	1.1	0.002322	0.0114462	54.842	1.098	53.577	55.542	50.528	1.225	49.655	51.929
12003	ENSG00000112640	PPP2R5D	-1.2	3.701E-05	0.0003975	58.136	0.597	57.650	58.803	68.562	2.179	67.178	71.073
12004	ENSG00000154001	PPP2R5E	-1.1	0.0039841	0.0177142	29.473	0.779	28.574	29.929	32.967	1.041	32.291	34.166
12005	ENSG00000138814	PPP3CA	-1.1	0.0043166	0.018855	23.518	0.300	23.324	23.864	26.809	1.536	25.561	28.524
12008	ENSG00000107758	PPP3CB	-1.1	0.024552	0.073914	27.183	1.633	25.738	28.955	30.273	0.292	29.999	30.580
12009	ENSG00000120910	PPP3CC	1.3	0.0024111	0.0117924	5.927	0.367	5.504	6.162	4.510	0.821	3.803	5.411
12012	ENSG00000154845	PPP4R1	1.1	0.0084032	0.0317309	33.853	0.089	33.760	33.938	31.696	2.353	28.981	33.142
12013	ENSG00000163605	PPP4R2	-1.1	0.01385	0.0473607	51.558	2.382	48.954	53.626	57.782	4.207	54.030	62.331
12014	ENSG00000100796	PPP4R3A	-1.2	9.824E-05	0.0008909	69.029	5.346	65.118	75.121	83.140	5.516	77.124	87.960
12015	ENSG00000275052	PPP4R3B	-1.1	0.0777312	0.1773701	31.609	1.047	30.952	32.816	34.148	1.184	33.188	35.471
12018	ENSG00000119698	PPP4R4	1.2	5.883E-05	0.0005852	14.720	0.271	14.407	14.881	12.190	0.603	11.791	12.884
12019	ENSG00000100239	PPP6R2	-1.2	0.0001496	0.0012567	22.425	1.447	21.005	23.898	26.970	1.206	26.217	28.362
12020	ENSG00000110075	PPP6R3	-1.2	2.096E-05	0.0002474	64.275	3.011	61.514	67.485	75.977	3.310	72.199	78.370
12021	ENSG00000131238	PPT1	1.1	0.0005694	0.0037196	160.229	6.122	154.258	166.491	147.646	3.290	144.354	150.935
12022	ENSG00000196850	PPTC7	-1.1	0.1231511	0.2476587	20.842	1.024	19.910	21.938	22.695	1.348	21.628	24.210
12024	ENSG00000113593	PPWD1	-1.1	0.1233101	0.2478659	34.848	0.680	34.081	35.377	37.720	0.746	37.027	38.510
12025	ENSG00000102103	PQBP1	-1.2	0.0038138	0.0170759	37.278	1.695	35.387	38.662	44.019	3.535	40.428	47.496
12026	ENSG00000040487	PQLC2	1.3	0.0007275	0.0045103	11.139	1.104	10.121	12.313	8.687	1.097	7.516	9.693
12027	ENSG00000162976	PQLC3	1.2	0.0099517	0.0363182	21.100	2.218	18.561	22.659	18.497	0.424	18.022	18.837
12030	ENSG00000243279	PRAF2	-1.3	0.0113797	0.0404255	5.461	0.088	5.362	5.528	7.398	0.774	6.888	8.288
12031	ENSG00000275342	PRAG1	1.1	0.1207637	0.2440322	20.554	2.419	17.763	22.056	18.738	1.664	17.117	20.443
12032	ENSG00000198901	PRC1	-1.2	5.66E-06	8.282E-05	57.745	1.830	56.235	59.779	70.371	5.519	65.240	76.209

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12033	ENSG00000143294	PRCC	-1.1	0.0800273	0.1812886	28.711	1.215	27.853	30.102	31.472	2.472	28.693	33.427
12037	ENSG00000170325	PRDM10	-1.3	1.56E-05	0.0001924	7.855	0.482	7.536	8.409	10.225	0.656	9.469	10.654
12039	ENSG00000019485	PRDM11	1.1	0.0725088	0.1682826	2.915	0.297	2.584	3.158	2.659	0.060	2.610	2.726
12040	ENSG00000147596	PRDM14	-1.5	4.20E-11	3.022E-09	28.777	1.184	27.870	30.116	44.905	4.163	42.445	49.711
12041	ENSG00000141956	PRDM15	-1.2	0.0009502	0.0056111	4.348	0.322	4.090	4.709	5.317	0.220	5.064	5.454
12044	ENSG00000138738	PRDM5	-1.1	0.0318266	0.0904373	15.733	0.953	15.138	16.832	17.680	1.531	15.975	18.939
12045	ENSG00000123131	PRDX4	-1.1	0.0002126	0.0016724	176.680	7.619	171.364	185.409	202.843	3.790	198.937	206.506
12046	ENSG00000126432	PRDX5	1.1	4.794E-05	0.000495	493.446	12.664	485.095	508.017	440.926	16.668	425.237	458.425
12048	ENSG00000117592	PRDX6	1.2	1.905E-07	4.773E-06	433.249	12.598	421.086	446.240	380.071	4.799	377.276	385.612
12049	ENSG00000138073	PREB	-1.2	0.0009007	0.0053567	32.807	1.864	30.685	34.182	38.639	2.104	36.209	39.865
12050	ENSG00000169230	PRELID1	-1.1	0.0031065	0.014507	137.208	0.765	136.325	137.680	154.140	3.530	151.400	158.123
12051	ENSG00000186314	PRELID2	1.4	0.0010845	0.0062815	3.731	0.860	2.747	4.343	2.733	0.186	2.546	2.918
12052	ENSG00000101166	PRELID3B	-1.1	0.0596507	0.1450362	64.612	2.370	62.828	67.301	71.119	1.819	69.929	73.213
12053	ENSG00000138078	PREPL	1.2	1.311E-08	4.696E-07	44.764	0.535	44.432	45.382	36.900	0.857	36.382	37.889
12054	ENSG00000124126	PREX1	-1.1	0.0332261	0.0933194	15.580	0.483	15.268	16.136	17.473	1.398	16.427	19.061
12056	ENSG00000046889	PREX2	-1.2	1.355E-05	0.0001726	11.415	0.456	11.108	11.938	13.793	0.162	13.678	13.979
12059	ENSG00000139174	PRICKLE1	-1.3	2.374E-07	5.719E-06	10.082	0.346	9.727	10.419	13.553	0.909	12.504	14.091
12062	ENSG00000164306	PRIMPOL	1.3	0.0059734	0.0242972	8.389	0.908	7.379	9.140	6.754	0.896	5.721	7.320
12063	ENSG00000132356	PRKAA1	-1.1	0.0743524	0.1713246	17.855	0.264	17.582	18.110	19.654	0.329	19.376	20.018
12064	ENSG00000111725	PRKAB1	-1.1	0.0846534	0.189382	13.565	0.351	13.222	13.923	14.938	0.685	14.321	15.675
12066	ENSG00000131791	PRKAB2	-1.1	0.074984	0.1724744	51.719	3.882	48.665	56.088	56.411	4.444	52.648	61.314
12069	ENSG00000142875	PRKACB	1.1	0.0060197	0.0244265	16.931	0.481	16.618	17.485	15.392	0.422	15.102	15.876
12071	ENSG00000181929	PRKAG1	1.1	0.0144107	0.0489119	28.973	1.826	27.272	30.902	26.708	1.436	25.060	27.692
12072	ENSG00000106617	PRKAG2	1.3	6.943E-06	9.745E-05	11.750	0.605	11.201	12.399	9.302	0.946	8.226	10.003
12073	ENSG00000108946	PRKAR1A	1.1	0.0147546	0.0497794	67.913	1.045	66.733	68.726	64.672	1.860	62.527	65.845
12074	ENSG00000188191	PRKAR1B	1.3	0.001418	0.007734	14.085	0.666	13.545	14.829	11.432	1.688	9.699	13.071
12082	ENSG00000005249	PRKAR2B	1.2	8.257E-08	2.308E-06	45.747	0.726	45.199	46.571	37.566	1.293	36.214	38.792
12083	ENSG00000166501	PRKCB	1.2	0.0058968	0.0240724	9.465	0.508	8.885	9.833	8.242	1.252	6.967	9.469
12084	ENSG00000171132	PRKCE	-1.5	0.0297428	0.085682	0.289	0.069	0.224	0.361	0.433	0.042	0.387	0.470
12085	ENSG00000126583	PRKCG	-1.2	0.0354582	0.097784	9.264	0.409	8.792	9.518	10.926	1.167	9.600	11.797
12086	ENSG00000130175	PRKCSH	-1.1	0.0264498	0.0782073	97.420	3.829	93.343	100.938	106.558	3.867	103.472	110.896
12087	ENSG00000067606	PRKCZ	-1.1	0.0443547	0.1158206	10.960	0.212	10.757	11.180	12.192	0.173	12.084	12.392
12088	ENSG00000184304	PRKD1	-1.3	0.0119008	0.0419417	1.599	0.145	1.509	1.766	2.149	0.283	1.946	2.472
12090	ENSG00000105287	PRKD2	-1.1	0.0221504	0.0681905	21.312	0.835	20.572	22.218	23.966	1.343	23.014	25.502
12091	ENSG00000253729	PRKDC	-1.1	0.0045094	0.0195357	148.479	1.981	146.221	149.925	162.046	1.750	160.295	163.794
12092	ENSG00000185532	PRKG1	-1.1	0.0180951	0.0583383	14.480	0.444	13.984	14.839	16.300	0.216	16.167	16.550
12093	ENSG00000138669	PRKG2	1.3	0.0102432	0.0371767	3.821	0.162	3.640	3.954	3.111	0.350	2.903	3.516
12094	ENSG00000180228	PRKRA	-1.1	0.097931	0.2100822	39.108	1.350	37.577	40.124	42.624	3.781	39.800	46.920
12095	ENSG00000183943	PRKX	-1	0.1141848	0.2342562	85.927	0.779	85.150	86.708	91.608	1.906	89.468	93.122
12096	ENSG00000126457	PRMT1	-1.1	0.000738	0.0045612	172.515	4.081	168.379	176.539	192.745	6.629	186.337	199.575
12097	ENSG00000185238	PRMT3	1.2	1.352E-06	2.452E-05	28.246	1.527	27.252	30.004	23.342	0.452	23.017	23.859
12098	ENSG00000198890	PRMT6	1.2	0.0003303	0.0023819	37.063	1.739	35.424	38.887	32.219	0.313	31.897	32.523
12100	ENSG00000132600	PRMT7	1.1	0.0063268	0.0253867	9.021	0.423	8.544	9.351	8.075	0.738	7.234	8.615

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12104	ENSG00000164169	PRMT9	1.1	0.1030335	0.217852	15.086	0.287	14.842	15.403	14.232	0.877	13.640	15.239
12105	ENSG00000171867	PRNP	1.7	1.63E-14	2.84E-12	49.255	4.876	44.366	54.117	29.112	2.009	27.018	31.024
12108	ENSG00000101000	PROCR	1.1	0.0506398	0.1282719	36.765	0.896	35.753	37.458	33.887	2.295	32.232	36.507
12109	ENSG00000100033	PRODH	1.2	8.29E-06	0.0001136	22.692	1.847	20.559	23.764	18.906	1.210	17.528	19.793
12110	ENSG00000163421	PROK2	1.3	0.1131759	0.2329776	3.403	0.906	2.748	4.436	2.687	0.838	1.843	3.520
12111	ENSG00000007062	PROM1	1.2	8.328E-08	2.324E-06	30.392	0.343	30.089	30.764	25.207	1.062	24.191	26.310
12113	ENSG00000155066	PROM2	-1.2	0.0109522	0.0392279	3.639	0.647	3.244	4.386	4.648	0.652	4.175	5.391
12114	ENSG00000162997	PRORS1P	-1.2	0.0635139	0.1522189	4.770	0.326	4.394	4.960	5.913	0.637	5.225	6.483
12117	ENSG00000184500	PROS1	1.5	0.0004032	0.0028134	3.416	0.370	2.994	3.684	2.293	0.585	1.624	2.713
12118	ENSG00000148426	PROSER2	1.2	0.0771557	0.1763186	3.896	0.459	3.386	4.275	3.379	0.034	3.349	3.416
12119	ENSG00000117707	PROX1	-2	6.423E-05	0.0006298	0.382	0.076	0.298	0.447	0.791	0.206	0.661	1.028
12120	ENSG00000110107	PRPF19	1.1	0.0341104	0.0952152	91.289	4.630	86.813	96.058	86.683	5.230	80.976	91.247
12121	ENSG00000117360	PRPF3	-1.2	6.086E-05	0.0006027	27.779	1.296	26.820	29.254	33.542	2.128	31.433	35.688
12122	ENSG00000185246	PRPF39	1.3	7.943E-09	3.039E-07	43.449	1.827	41.432	44.993	33.072	2.835	31.232	36.337
12123	ENSG00000136875	PRPF4	-1.1	0.0005966	0.0038672	34.712	0.581	34.326	35.380	40.427	0.543	39.825	40.879
12124	ENSG00000110844	PRPF40B	-1.2	0.0004335	0.0029801	8.233	0.414	7.951	8.708	10.040	0.411	9.787	10.514
12125	ENSG00000101161	PRPF6	1.1	0.10784	0.2253952	85.337	1.124	84.596	86.631	82.901	4.451	79.003	87.751
12126	ENSG00000174231	PRPF8	-1.1	0.0048002	0.0205171	117.628	5.922	110.912	122.101	130.302	6.816	124.691	137.887
12127	ENSG00000147224	PRPS1	-1.1	1.268E-05	0.0001635	183.081	0.875	182.572	184.091	213.169	0.902	212.583	214.208
12128	ENSG00000161542	PRPSAP1	-1.1	0.0239985	0.0726353	15.007	0.628	14.286	15.437	16.890	1.284	15.443	17.894
12129	ENSG00000068489	PRR11	-1.2	2.574E-08	8.466E-07	55.734	3.027	53.085	59.034	71.059	2.704	67.944	72.795
12133	ENSG00000126464	PRR12	-1.3	7.178E-05	0.0006898	16.256	0.548	15.924	16.888	21.066	3.241	19.082	24.806
12134	ENSG00000156858	PRR14	-1.3	0.0116481	0.0412537	4.032	0.720	3.598	4.863	5.182	0.314	4.886	5.510
12135	ENSG00000183530	PRR14L	-1.1	0.0028688	0.013572	24.877	0.571	24.318	25.459	28.149	1.417	27.007	29.734
12138	ENSG00000176532	PRR15	1.4	0.0025423	0.0123345	9.213	1.197	7.968	10.354	6.869	0.808	6.062	7.679
12139	ENSG00000183248	PRR36	-1.2	0.0964716	0.2078766	9.819	0.579	9.211	10.365	12.205	2.852	10.262	15.478
12142	ENSG00000186654	PRR5	-1.3	0.0182982	0.0588806	2.465	0.103	2.357	2.562	3.200	0.647	2.457	3.636
12143	ENSG00000135362	PRR5L	1.7	6.152E-08	1.773E-06	5.554	0.947	4.463	6.163	3.431	0.229	3.168	3.582
12144	ENSG00000164244	PRRC1	-1.1	0.0234402	0.0714055	31.252	1.440	29.817	32.697	34.486	0.970	33.411	35.296
12146	ENSG00000204469	PRRC2A	-1.1	0.001613	0.0085953	122.356	5.464	116.091	126.134	139.439	10.498	133.338	151.560
12148	ENSG00000130723	PRRC2B	-1.2	2.38E-05	0.0002757	66.371	4.316	61.417	69.318	78.751	4.245	74.684	83.155
12149	ENSG00000117523	PRRC2C	-1.1	0.0149277	0.0502433	85.959	1.723	84.922	87.948	93.627	0.801	93.018	94.534
12152	ENSG00000130962	PRRG1	-1.2	9.167E-05	0.0008422	9.340	0.213	9.150	9.571	11.925	0.235	11.693	12.163
12153	ENSG00000135378	PRRG4	1.2	0.0566447	0.1395125	2.447	0.131	2.296	2.538	2.067	0.113	1.938	2.143
12154	ENSG00000167371	PRRT2	-1.4	8.931E-06	0.000121	5.392	0.279	5.115	5.674	7.945	0.319	7.734	8.311
12155	ENSG00000150687	PRSS23	1.8	6.75E-09	2.655E-07	2.479	0.268	2.224	2.758	1.408	0.135	1.281	1.550
12157	ENSG00000206549	PRSS50	1.5	0.0515145	0.1298845	1.701	0.143	1.560	1.847	1.196	0.130	1.049	1.297
12158	ENSG00000151006	PRSS53	-1.9	0.0005816	0.0037888	0.422	0.082	0.349	0.510	0.839	0.187	0.706	1.052
12159	ENSG00000052344	PRSS8	1.1	0.0003128	0.0022846	113.071	2.520	110.169	114.707	102.670	3.603	100.520	106.829
12160	ENSG00000106772	PRUNE2	2	5.37E-17	1.65E-14	8.322	0.474	7.777	8.641	4.275	0.512	3.688	4.623
12161	ENSG00000197746	PSAP	1.1	0.0023795	0.0116821	560.561	7.523	551.879	565.142	532.164	13.891	521.270	547.807
12162	ENSG00000135069	PSAT1	1.8	1.99E-22	2.10E-19	571.533	20.470	548.809	588.528	328.796	17.383	309.428	343.041

	A	B	C	D	E	F	G	H	I	J	K	L	M
12163	ENSG00000230787	PSAT1P3	1.7	0.0050968	0.0214595	4.015	0.066	3.967	4.090	2.344	1.100	1.427	3.564
12166	ENSG00000059915	PSD	-1.4	0.0003721	0.0026322	2.322	0.177	2.168	2.515	3.334	0.169	3.234	3.529
12167	ENSG00000156011	PSD3	-1.1	0.0726318	0.1685077	6.517	0.414	6.056	6.856	7.266	0.263	7.094	7.569
12168	ENSG00000125637	PSD4	1.8	0.0001472	0.0012381	0.705	0.138	0.571	0.846	0.406	0.099	0.337	0.520
12169	ENSG00000080815	PSEN1	1.1	0.0057805	0.0237065	18.106	0.597	17.494	18.688	16.770	0.560	16.123	17.112
12170	ENSG00000143801	PSEN2	1.5	5.713E-08	1.672E-06	16.898	1.465	15.308	18.192	11.783	0.992	10.675	12.589
12171	ENSG00000164985	PSIP1	1.1	0.0278605	0.0814951	272.123	2.417	270.195	274.834	262.114	10.161	253.857	273.461
12172	ENSG00000159792	PSKH1	-1.1	0.0083451	0.0315679	20.271	1.124	19.614	21.569	23.467	1.229	22.336	24.775
12173	ENSG00000229083	PSMA6P2	1.4	0.0089442	0.0332777	10.973	1.281	9.882	12.383	7.794	0.836	6.840	8.393
12174	ENSG00000008018	PSMB1	-1.1	0.0331917	0.0932665	209.028	7.359	202.015	216.690	226.431	3.205	223.992	230.061
12175	ENSG00000126067	PSMB2	-1.1	0.0501039	0.1271428	76.446	2.146	74.908	78.898	82.621	1.980	81.154	84.874
12177	ENSG00000277791	PSMB3	-1.1	0.0371173	0.1010643	196.595	6.140	189.801	201.748	214.132	1.213	213.042	215.438
12180	ENSG00000100804	PSMB5	-1.1	0.0630632	0.1514179	212.185	1.437	210.885	213.728	228.279	7.007	223.524	236.326
12182	ENSG00000142507	PSMB6	-1.1	0.036801	0.1004784	253.870	8.532	244.103	259.871	275.700	3.516	273.151	279.711
12185	ENSG00000204264	PSMB8	1.2	0.0004978	0.0033452	27.316	1.801	25.994	29.367	22.753	1.308	21.522	24.126
12189	ENSG00000240065	PSMB9	1.4	0.0195896	0.0619752	2.412	0.252	2.164	2.667	1.738	0.340	1.466	2.119
12190	ENSG00000241506	PSMC1P1	1.1	0.0069902	0.0274815	181.283	6.432	175.192	188.009	169.262	4.659	166.296	174.632
12192	ENSG00000165916	PSMC3	1	0.1185881	0.2408016	121.937	0.514	121.450	122.475	119.168	3.413	116.748	123.071
12193	ENSG00000013275	PSMC4	1.1	0.0005133	0.0034307	92.456	0.949	91.501	93.399	84.140	2.705	81.031	85.964
12194	ENSG00000100519	PSMC6	-1.1	0.061458	0.1482432	28.345	1.791	26.935	30.360	30.963	1.330	29.428	31.796
12199	ENSG00000185627	PSMD13	-1.1	0.0263356	0.0779897	60.008	1.040	59.288	61.201	65.497	1.702	64.374	67.455
12201	ENSG00000175166	PSMD2	1.1	0.0135745	0.0465973	131.616	3.250	128.570	135.037	125.733	5.687	119.174	129.310
12209	ENSG00000108344	PSMD3	-1.1	0.0006011	0.0038845	79.264	0.723	78.433	79.745	89.658	2.738	86.597	91.873
12210	ENSG00000159352	PSMD4	1.1	0.0125373	0.0436842	109.555	0.508	109.063	110.078	103.556	4.460	99.129	108.048
12211	ENSG00000163636	PSMD6	-1.1	0.0984974	0.2110053	31.161	0.396	30.865	31.611	33.448	0.120	33.327	33.568
12213	ENSG00000103035	PSMD7	-1.1	0.038632	0.1040916	169.956	10.725	162.850	182.293	184.619	2.488	182.199	187.169
12214	ENSG00000099341	PSMD8	1.1	0.0112912	0.0401699	93.713	2.109	91.654	95.869	88.257	3.614	86.102	92.429
12217	ENSG00000092010	PSME1	1.1	0.0383943	0.1035832	76.075	1.769	74.113	77.546	71.637	4.017	67.654	75.688
12220	ENSG00000131467	PSME3	1	0.1247055	0.2499875	68.537	1.748	67.523	70.555	67.080	1.505	65.472	68.455
12221	ENSG00000183527	PSMG1	1.2	5.137E-05	0.0005231	52.092	3.172	48.457	54.303	44.528	0.717	43.717	45.077
12222	ENSG00000128789	PSMG2	-1.1	0.034267	0.0954137	43.087	1.494	41.375	44.126	47.492	1.251	46.090	48.496
12224	ENSG00000121390	PSPC1	1.2	6.821E-05	0.0006611	28.868	1.156	27.565	29.771	25.047	1.015	24.416	26.218
12226	ENSG00000227879	PSPC1P1	1.3	0.11853	0.240801	6.184	1.259	4.967	7.480	4.815	0.929	4.017	5.835
12227	ENSG00000146733	PSPH	1.6	4.65E-13	5.38E-11	42.777	0.407	42.532	43.247	28.067	1.527	26.764	29.748
12228	ENSG00000134222	PSRC1	-1.2	0.0005315	0.003518	50.616	3.110	47.970	54.042	59.547	3.466	56.082	63.014
12230	ENSG00000152229	PSTPIP2	1.2	0.0060211	0.0244265	7.850	0.224	7.669	8.100	6.578	0.428	6.093	6.898
12231	ENSG00000169403	PTAFR	1.2	0.058729	0.1432501	3.220	0.254	2.976	3.482	2.777	0.044	2.739	2.825
12233	ENSG00000188647	PTAR1	1.1	0.09455	0.2053318	82.953	3.633	79.220	86.476	79.510	6.927	73.704	87.178
12234	ENSG00000011304	PTBP1	-1.4	3.43E-14	5.42E-12	123.155	2.041	120.879	124.821	175.943	12.526	162.565	187.392
12235	ENSG00000117569	PTBP2	-1.7	2.26E-16	6.17E-14	12.846	0.704	12.128	13.535	22.788	2.138	20.767	25.026
12236	ENSG00000119314	PTBP3	-1.1	0.0379596	0.1028038	82.363	2.766	80.342	85.515	89.347	3.821	84.935	91.611
12237	ENSG00000106246	PTCD1	-1.3	0.0058467	0.0239149	1.828	0.190	1.617	1.984	2.473	0.223	2.220	2.640
12238	ENSG00000049883	PTCD2	1.1	0.110448	0.2291189	6.912	0.325	6.622	7.263	6.539	0.110	6.419	6.635

	A	B	C	D	E	F	G	H	I	J	K	L	M
12242	ENSG00000165186	PTCHD1	-1.5	1.606E-06	2.809E-05	1.854	0.289	1.662	2.185	2.860	0.295	2.525	3.079
12245	ENSG00000171862	PTEN	-1.1	0.0019497	0.0099713	12.034	0.566	11.662	12.685	14.033	0.644	13.336	14.605
12247	ENSG00000237984	PTENP1	-1.2	0.0161005	0.0534353	8.743	0.416	8.411	9.209	10.425	0.504	9.883	10.879
12249	ENSG00000148334	PTGES2	-1.1	0.122818	0.2471998	33.617	1.122	32.377	34.562	36.777	3.918	34.102	41.274
12251	ENSG00000110958	PTGES3	-1.1	0.0080951	0.0308716	380.299	1.172	379.296	381.587	417.092	17.905	399.793	435.547
12254	ENSG00000267060	PTGES3L	1.3	0.1242047	0.2492494	1.313	0.281	1.043	1.604	1.009	0.191	0.870	1.227
12255	ENSG00000234518	PTGES3P1	-1.1	0.0534111	0.1335568	345.608	13.131	336.709	360.689	378.771	24.200	356.026	404.202
12256	ENSG00000124212	PTGIS	-1.1	0.0467721	0.1206798	38.303	1.339	37.106	39.750	42.078	3.315	38.679	45.302
12257	ENSG00000106853	PTGR1	1.1	0.0700764	0.164019	45.184	1.586	43.415	46.480	43.136	1.446	42.253	44.805
12258	ENSG00000095303	PTGS1	-1.6	0.0082741	0.0313839	0.605	0.152	0.463	0.765	0.979	0.181	0.865	1.189
12259	ENSG00000169398	PTK2	-1.1	0.0351483	0.0972777	42.655	1.757	41.019	44.513	46.082	0.573	45.711	46.742
12261	ENSG00000187514	PTMA	1.1	0.0154335	0.0516067	1446.324	137.896	1290.869	1553.895	1362.753	25.081	1341.157	1390.262
12263	ENSG00000197744	PTMAP2	1.1	0.0444987	0.1160715	2450.028	251.281	2175.805	2669.257	2283.167	106.426	2195.660	2401.642
12264	ENSG00000214182	PTMAP5	1.1	0.0248939	0.0747333	641.074	73.700	560.939	705.952	575.465	23.820	552.058	599.678
12265	ENSG00000104960	PTOV1	-1.1	0.0543257	0.1353773	51.773	2.505	48.885	53.339	56.517	1.901	55.066	58.669
12266	ENSG00000268006	PTOV1-AS1	-1.2	0.1136955	0.2335924	2.984	0.364	2.566	3.226	3.613	0.462	3.237	4.129
12267	ENSG00000112245	PTP4A1	1.1	0.04154	0.1100684	84.512	4.640	79.909	89.188	79.831	4.213	75.124	83.249
12268	ENSG00000184007	PTP4A2	1.2	1.01E-09	4.908E-08	95.352	0.597	94.723	95.912	78.205	2.234	75.708	80.012
12269	ENSG00000196396	PTPN1	-1.1	0.0006032	0.003897	32.943	1.330	31.422	33.882	38.523	0.888	37.547	39.284
12271	ENSG00000127947	PTPN12	1.1	0.0292977	0.0847028	74.491	4.053	71.149	78.999	70.863	5.270	66.073	76.509
12272	ENSG00000163629	PTPN13	1.1	0.0070915	0.0277894	44.898	1.368	43.569	46.302	42.430	0.360	42.014	42.641
12273	ENSG00000070778	PTPN21	1.3	3.872E-06	5.953E-05	8.746	0.261	8.564	9.045	6.743	0.510	6.154	7.040
12275	ENSG00000076201	PTPN23	-1.1	0.0175438	0.0568534	22.135	0.814	21.564	23.066	25.077	2.725	22.616	28.006
12276	ENSG00000228196	PTPN2P1	-1.3	0.0835496	0.1877092	4.605	0.488	4.272	5.165	5.965	0.250	5.682	6.157
12277	ENSG00000070159	PTPN3	1.3	0.0013031	0.0072475	3.236	0.231	2.971	3.399	2.626	0.064	2.564	2.691
12278	ENSG00000088179	PTPN4	1.3	4.195E-09	1.748E-07	24.699	1.218	23.375	25.771	19.869	0.537	19.367	20.435
12279	ENSG00000110786	PTPN5	-1.2	0.0003272	0.0023677	6.566	0.088	6.504	6.667	8.366	0.424	8.052	8.848
12281	ENSG00000169410	PTPN9	1.1	0.0195236	0.0618125	20.201	0.517	19.693	20.727	18.848	1.677	17.038	20.347
12282	ENSG00000153707	PTPRD	1.1	0.0551126	0.1368951	19.545	1.098	18.711	20.788	18.735	0.485	18.305	19.261
12283	ENSG00000132334	PTPRE	-1.6	0.0031199	0.0145485	0.365	0.054	0.302	0.398	0.593	0.067	0.543	0.668
12285	ENSG00000142949	PTPRF	-1.2	1.171E-06	2.161E-05	89.294	4.143	84.559	92.253	107.187	4.996	102.450	112.408
12286	ENSG00000144724	PTPRG	-1.1	0.027062	0.0796277	44.561	4.774	41.613	50.069	49.890	2.987	46.858	52.830
12287	ENSG00000080031	PTPRH	1.6	0.0437407	0.1145891	0.750	0.093	0.646	0.823	0.478	0.105	0.358	0.540
12290	ENSG00000149177	PTPRJ	-1.1	0.0261633	0.0776045	11.789	0.135	11.634	11.871	13.140	0.614	12.624	13.819
12293	ENSG00000152894	PTPRK	-1.1	0.0059173	0.0241273	25.798	0.869	25.063	26.757	28.854	1.013	27.971	29.959
12294	ENSG00000173482	PTPRM	1.3	5.046E-05	0.000517	5.282	0.209	5.059	5.473	4.130	0.376	3.791	4.535
12296	ENSG00000105426	PTPRS	-1.2	4.709E-07	1.029E-05	41.092	1.088	39.837	41.778	50.474	2.562	48.498	53.369
12297	ENSG00000196090	PTPRT	-2	1.339E-06	2.432E-05	0.374	0.053	0.320	0.426	0.768	0.028	0.744	0.799
12298	ENSG00000060656	PTPRU	1.1	0.003023	0.0141863	26.387	1.269	25.101	27.638	24.230	0.159	24.125	24.412
12300	ENSG00000106278	PTPRZ1	-1.1	0.0023431	0.0115332	172.074	10.064	164.279	183.436	191.447	2.722	189.281	194.502
12302	ENSG00000164611	PTTG1	-1.1	0.027262	0.0801058	273.908	4.957	269.021	278.933	299.283	12.498	285.527	309.939
12303	ENSG00000183255	PTTG1IP	1.1	0.0091097	0.0337506	130.477	3.278	126.938	133.410	123.772	4.127	120.174	128.276

	A	B	C	D	E	F	G	H	I	J	K	L	M
12304	ENSG00000163661	PTX3	1.5	0.0686668	0.1614347	1.502	0.241	1.294	1.766	1.040	0.008	1.032	1.048
12307	ENSG00000130021	PUDP	1.1	0.0096102	0.0352728	50.620	1.267	49.386	51.918	46.818	2.520	45.073	49.708
12312	ENSG00000134644	PUM1	-1.1	0.0017285	0.0090876	64.962	1.839	62.840	66.094	72.498	1.090	71.633	73.723
12315	ENSG00000146676	PURB	-1.2	4.744E-05	0.0004904	39.712	1.408	38.633	41.305	47.749	2.768	44.728	50.164
12318	ENSG00000172733	PURG	-1.1	0.0694675	0.1628645	6.965	0.218	6.716	7.126	8.120	0.788	7.619	9.028
12319	ENSG00000177192	PUS1	1.1	0.0948057	0.2057285	12.144	0.649	11.514	12.810	11.432	1.088	10.512	12.633
12321	ENSG00000110060	PUS3	-1.2	0.0020138	0.0102128	17.610	0.616	16.900	17.996	21.894	2.451	20.011	24.666
12322	ENSG00000091127	PUS7	-1.1	0.0249545	0.0748724	30.395	1.421	29.049	31.881	33.777	0.994	32.950	34.880
12323	ENSG00000129317	PUS7L	1.1	0.0029599	0.0139253	12.994	0.675	12.530	13.768	11.801	0.417	11.342	12.159
12325	ENSG00000169972	PUSL1	-1.1	0.0459251	0.1190371	20.531	1.574	18.876	22.007	23.696	3.019	20.216	25.613
12328	ENSG00000100362	PVALB	-1.6	0.0001865	0.0015096	6.678	0.184	6.468	6.811	11.221	1.605	9.980	13.033
12329	ENSG00000073008	PVR	1.3	0.0005382	0.0035514	10.597	1.397	9.188	11.981	8.392	0.049	8.347	8.444
12331	ENSG00000242242	PVRL3-AS1	1.4	0.0754475	0.1732107	2.639	0.139	2.483	2.751	1.893	0.522	1.306	2.305
12333	ENSG00000279192	PWAR5	-1.2	0.0007147	0.0044391	81.984	2.999	78.522	83.719	99.626	10.938	93.151	112.255
12334	ENSG00000257151	PWAR6	1.3	1.532E-07	3.955E-06	128.406	9.051	120.757	138.398	102.804	3.247	100.620	106.536
12335	ENSG00000136045	PWP1	-1.1	0.0840388	0.1884603	65.321	1.753	63.622	67.123	70.538	0.423	70.097	70.940
12338	ENSG00000241945	PWP2	-1.1	0.0227861	0.0698281	12.580	0.172	12.387	12.716	14.191	0.900	13.170	14.865
12340	ENSG00000171813	PWWP2B	-1.2	0.0022944	0.0113201	13.166	0.524	12.757	13.756	16.584	2.396	15.172	19.351
12344	ENSG00000168994	PXDC1	1.2	0.0779679	0.1778144	5.590	0.532	5.255	6.203	4.684	1.125	3.778	5.942
12347	ENSG00000130508	PXDN	1.1	0.0003804	0.002684	57.793	0.766	57.042	58.574	53.248	1.649	51.992	55.115
12350	ENSG00000176894	PXMP2	1.3	0.0948879	0.2058278	4.240	1.042	3.280	5.348	3.361	0.679	2.647	3.999
12353	ENSG00000101417	PXMP4	-1.2	0.048111	0.1232622	4.185	0.218	4.001	4.426	4.923	0.239	4.666	5.138
12354	ENSG00000089159	PXN	1.2	4.581E-05	0.0004767	55.786	0.483	55.320	56.284	49.386	3.137	46.611	52.790
12355	ENSG00000255857	PXN-AS1	-1.5	0.0001637	0.0013586	5.953	0.874	5.152	6.886	8.854	0.612	8.352	9.536
12356	ENSG00000103490	PYCARD	1.2	0.0033349	0.0153187	26.456	0.380	26.061	26.819	22.435	0.662	21.785	23.109
12358	ENSG00000261359	PYCARD-AS1	-1.3	0.0940856	0.2045333	2.705	0.221	2.449	2.833	3.730	0.195	3.505	3.856
12362	ENSG00000143811	PYCR2	1.1	0.0202099	0.0635688	24.408	1.330	22.872	25.184	22.456	1.032	21.544	23.577
12363	ENSG00000169900	PYDC1	1.4	0.0209623	0.0654839	7.621	2.261	5.710	10.117	5.424	0.463	5.086	5.952
12364	ENSG00000100994	PYGB	1.1	0.003603	0.0163209	35.680	0.715	34.915	36.331	32.521	2.604	30.789	35.517
12365	ENSG00000068976	PYGM	-1.4	0.0001094	0.0009706	3.617	0.429	3.260	4.093	5.323	0.356	4.925	5.612
12366	ENSG00000171016	PYGO1	1.5	0.0009045	0.0053773	1.287	0.083	1.203	1.370	0.858	0.109	0.777	0.983
12367	ENSG00000163348	PYGO2	-1.2	0.0010447	0.0060865	27.843	0.861	26.862	28.471	32.999	2.323	31.492	35.674
12368	ENSG00000151552	QDPR	1.3	0.0001185	0.0010385	24.662	0.327	24.374	25.018	20.169	0.685	19.377	20.568
12369	ENSG00000112531	QKI	-1.1	0.0474526	0.1219907	46.855	0.102	46.794	46.973	50.628	1.617	48.965	52.195
12370	ENSG00000115828	QPCT	1.5	0.0001168	0.001026	6.476	1.140	5.684	7.783	4.388	0.293	4.110	4.694
12371	ENSG00000011478	QPCTL	-1.1	0.0967636	0.2083731	14.959	0.434	14.550	15.415	16.978	1.722	15.491	18.864
12373	ENSG00000103485	QPRT	1.1	0.0011125	0.0064198	121.462	6.202	114.402	126.036	111.661	1.611	110.192	113.383
12374	ENSG00000198218	QRICH1	-1.1	0.0074704	0.0289854	53.980	1.235	53.142	55.399	59.986	1.372	58.431	61.031
12375	ENSG00000130348	QRSL1	-1.1	0.0550842	0.1368812	15.562	0.784	14.699	16.229	17.290	0.756	16.635	18.118
12377	ENSG00000060749	QSER1	-1.1	0.0012879	0.0071863	66.889	0.999	65.941	67.932	74.759	1.014	74.125	75.928
12378	ENSG00000165661	QSOX2	-1.1	0.0223852	0.0687989	29.052	2.354	27.199	31.700	32.713	1.981	30.477	34.249

	A	B	C	D	E	F	G	H	I	J	K	L	M
12381	ENSG00000213339	QTRT1	-1.1	0.0530872	0.1330057	23.418	0.528	22.847	23.890	26.261	1.187	24.993	27.344
12382	ENSG00000151576	QTRT2	1.1	0.053432	0.1335643	17.769	1.106	16.630	18.839	16.824	0.802	16.245	17.740
12384	ENSG00000104679	R3HCC1	-1.1	0.0458427	0.1188985	12.972	0.540	12.631	13.594	15.018	1.264	13.770	16.298
12386	ENSG00000048991	R3HDM1	-1.1	0.0196091	0.0620019	24.807	0.644	24.070	25.265	27.382	0.958	26.368	28.272
12387	ENSG00000084733	RAB10	1.1	0.0610147	0.1475889	121.416	1.973	119.627	123.532	117.517	0.482	117.073	118.030
12391	ENSG00000103769	RAB11A	-1.1	0.0321974	0.0911669	81.963	2.470	80.471	84.814	89.112	0.989	88.109	90.086
12394	ENSG00000185236	RAB11B	1.1	0.000938	0.0055491	56.224	2.448	53.924	58.797	50.267	1.430	48.647	51.352
12395	ENSG00000143545	RAB13	1.2	1.114E-05	0.000146	74.750	4.999	69.293	79.109	63.581	3.615	59.804	67.009
12396	ENSG00000119396	RAB14	-1.1	0.115336	0.2359354	44.358	0.935	43.650	45.419	47.829	1.709	45.915	49.202
12397	ENSG00000139998	RAB15	1.2	0.0002676	0.0020189	41.224	1.053	40.081	42.154	36.559	2.641	33.842	39.117
12399	ENSG00000099246	RAB18	1.1	0.0308842	0.0882935	37.860	0.367	37.516	38.246	35.751	1.329	34.381	37.035
12400	ENSG00000139832	RAB20	1.4	6.341E-07	1.311E-05	29.107	1.118	27.873	30.054	20.758	1.771	18.926	22.460
12401	ENSG00000112210	RAB23	1.1	0.0866365	0.1925976	17.862	0.337	17.474	18.085	16.801	1.194	15.811	18.128
12403	ENSG00000169228	RAB24	-1.3	0.0187612	0.059926	6.705	0.760	6.060	7.543	8.758	1.850	6.693	10.264
12405	ENSG00000132698	RAB25	-1.3	5.197E-07	1.118E-05	37.779	0.264	37.478	37.976	51.429	5.231	45.970	56.398
12406	ENSG00000069974	RAB27A	1.2	0.0067101	0.0266029	5.452	0.140	5.369	5.614	4.606	0.361	4.295	5.002
12407	ENSG00000041353	RAB27B	1.7	0.008378	0.0316712	0.505	0.128	0.358	0.581	0.299	0.046	0.247	0.334
12408	ENSG00000157869	RAB28	1.1	0.0859724	0.1915746	41.753	1.267	40.843	43.200	39.502	2.071	37.251	41.327
12411	ENSG00000117280	RAB29	1.2	0.0135941	0.0466458	15.336	1.359	14.354	16.887	13.547	1.500	11.841	14.660
12413	ENSG00000104388	RAB2A	1.1	0.0017966	0.0093445	43.301	1.273	42.029	44.575	39.796	1.680	37.896	41.087
12414	ENSG00000129472	RAB2B	-1.1	0.0380853	0.1029775	24.704	1.087	23.818	25.918	27.886	2.606	25.474	30.650
12416	ENSG00000137502	RAB30	1.2	0.0155933	0.0520121	2.316	0.233	2.071	2.535	1.980	0.004	1.975	1.983
12417	ENSG00000168461	RAB31	1.1	0.0019126	0.0098261	29.334	2.072	27.506	31.585	26.628	0.429	26.189	27.046
12418	ENSG00000118508	RAB32	1.3	0.0114568	0.0406393	15.380	1.379	14.194	16.894	11.920	3.364	8.039	14.008
12422	ENSG00000134594	RAB33A	1.3	0.096812	0.2083834	4.946	0.141	4.812	5.092	4.023	0.429	3.703	4.510
12424	ENSG00000172007	RAB33B	-1.1	0.0872088	0.1934884	11.565	0.764	11.070	12.445	12.964	0.848	12.411	13.940
12428	ENSG00000109113	RAB34	1.1	0.0001357	0.0011579	94.946	1.578	93.742	96.732	85.750	3.920	81.538	89.290
12430	ENSG00000111737	RAB35	1.1	0.0747963	0.1721597	23.776	0.935	23.003	24.815	22.525	1.356	21.535	24.070
12431	ENSG00000172794	RAB37	-1.8	3.815E-09	1.621E-07	3.085	0.106	2.997	3.203	5.701	0.432	5.203	5.980
12432	ENSG00000123892	RAB38	1.1	0.0783353	0.1785318	37.854	1.919	36.684	40.068	35.137	4.181	31.166	39.500
12433	ENSG00000155961	RAB39B	1.1	0.0459522	0.119045	12.787	1.552	11.562	14.533	11.509	0.867	10.798	12.475
12436	ENSG00000105649	RAB3A	-1.3	0.0149785	0.0503941	5.489	1.310	4.063	6.638	7.400	0.930	6.518	8.371
12437	ENSG00000169213	RAB3B	1.2	1.278E-05	0.0001643	42.577	3.114	38.983	44.484	37.448	1.139	36.252	38.518
12438	ENSG00000152932	RAB3C	-1.3	5.281E-05	0.0005348	4.366	0.231	4.104	4.541	5.803	0.415	5.442	6.257
12439	ENSG00000105514	RAB3D	-1.2	0.0055596	0.0229674	9.779	1.100	9.006	11.038	11.949	0.719	11.146	12.535
12441	ENSG00000115839	RAB3GAP1	1.1	0.0154448	0.0516139	39.245	0.341	38.868	39.533	37.173	1.966	34.930	38.598
12442	ENSG00000127328	RAB3IP	1.1	0.0017665	0.0092288	11.544	0.204	11.364	11.765	10.441	0.389	10.097	10.864
12444	ENSG00000167578	RAB4B	1.2	0.0953317	0.2063405	3.453	0.288	3.184	3.756	2.974	0.060	2.904	3.014
12446	ENSG00000111540	RAB5B	1.1	0.0076173	0.0294539	42.630	0.785	41.730	43.171	39.947	1.447	39.037	41.616
12447	ENSG00000108774	RAB5C	1.1	0.0733482	0.1697507	25.015	1.138	23.958	26.220	23.392	1.007	22.658	24.540
12449	ENSG00000154917	RAB6B	-1.3	0.0004635	0.0031447	7.280	1.034	6.270	8.336	9.614	1.415	8.032	10.758

	A	B	C	D	E	F	G	H	I	J	K	L	M
12451	ENSG00000075785	RAB7A	1.2	5.481E-07	1.168E-05	210.375	1.075	209.138	211.088	182.387	6.110	177.525	189.245
12452	ENSG00000276600	RAB7B	5.6	3.352E-07	7.714E-06	1.059	0.331	0.761	1.415	0.188	0.091	0.084	0.255
12453	ENSG00000167461	RAB8A	-1.1	0.0089295	0.0332508	23.059	1.651	21.175	24.252	26.257	0.739	25.729	27.102
12455	ENSG00000123570	RAB9B	1.3	0.0722317	0.1678097	1.949	0.362	1.695	2.364	1.523	0.401	1.106	1.906
12456	ENSG00000105404	RABAC1	-1.2	0.0021154	0.010601	39.173	0.322	38.801	39.367	46.562	2.113	44.438	48.664
12457	ENSG00000152061	RABGAP1L	-1.4	5.41E-14	8.03E-12	17.874	0.202	17.641	18.003	26.083	0.470	25.760	26.622
12458	ENSG00000137955	RABGGTB	-1.1	0.0793428	0.1802293	49.845	5.086	45.807	55.557	54.732	3.192	51.504	57.887
12459	ENSG00000144134	RABL2A	1.2	0.0031883	0.0147931	4.453	0.228	4.190	4.600	3.653	0.300	3.345	3.944
12463	ENSG00000079974	RABL2B	1.3	4.054E-05	0.0004306	7.782	0.216	7.533	7.920	6.116	0.263	5.885	6.402
12464	ENSG00000144840	RABL3	1.2	0.0004044	0.0028141	19.787	1.718	17.872	21.196	16.911	0.751	16.094	17.572
12465	ENSG00000169750	RAC3	-1.2	5.796E-06	8.429E-05	64.117	0.280	63.912	64.437	80.000	1.516	78.921	81.733
12466	ENSG00000161800	RACGAP1	-1.3	1.854E-07	4.675E-06	52.726	3.556	49.573	56.580	68.949	5.649	65.207	75.447
12468	ENSG00000204628	RACK1	-1.1	0.0072942	0.0284188	519.609	2.827	516.647	522.278	565.198	17.183	546.715	580.687
12469	ENSG00000164754	RAD21	-1.1	3.178E-05	0.0003504	181.214	6.065	175.368	187.477	208.435	6.497	201.686	214.646
12470	ENSG00000179262	RAD23A	-1.2	0.0007968	0.0048526	58.086	2.303	55.465	59.784	68.397	1.634	66.521	69.508
12472	ENSG00000119318	RAD23B	-1.1	0.0235663	0.071671	197.627	3.040	195.265	201.057	214.259	1.477	212.875	215.814
12473	ENSG00000051180	RAD51	1.2	0.001925	0.0098688	28.470	2.706	25.448	30.668	24.962	0.911	23.927	25.645
12474	ENSG00000108384	RAD51C	1.2	0.016465	0.0543125	5.225	0.498	4.869	5.794	4.479	0.452	3.960	4.786
12475	ENSG00000185379	RAD51D	1.3	8.656E-05	0.0008031	4.456	0.323	4.101	4.732	3.582	0.036	3.545	3.617
12477	ENSG00000002016	RAD52	-1.4	1.534E-05	0.0001898	5.809	0.222	5.642	6.061	8.250	0.424	7.876	8.710
12478	ENSG00000197275	RAD54B	-1.1	0.0304254	0.0871587	6.143	0.263	5.840	6.309	7.201	0.324	6.829	7.424
12480	ENSG00000085999	RAD54L	-1.1	0.003784	0.0169622	32.374	0.506	31.875	32.886	37.136	1.799	35.682	39.148
12482	ENSG00000157927	RADIL	-1.5	0.0001459	0.00123	1.622	0.209	1.382	1.761	2.464	0.319	2.177	2.808
12483	ENSG00000166349	RAG1	1.4	0.0037952	0.0170035	2.174	0.132	2.097	2.326	1.634	0.419	1.212	2.050
12484	ENSG00000039560	RAI14	1.2	7.854E-07	1.561E-05	73.314	2.972	71.150	76.703	63.772	0.955	62.831	64.740
12485	ENSG00000006451	RALA	-1	0.1160041	0.2370682	93.006	2.359	90.982	95.596	99.538	3.448	96.400	103.229
12486	ENSG00000017797	RALBP1	-1.1	0.0012722	0.0071223	37.437	0.797	36.796	38.329	42.214	1.314	40.703	43.091
12487	ENSG00000229419	RALGAPA1 P1	1.1	0.0088291	0.0329565	10.750	0.409	10.363	11.178	9.606	0.635	8.926	10.184
12488	ENSG00000136828	RALGPS1	-1.1	0.0256131	0.0763608	11.705	0.021	11.684	11.727	13.048	0.528	12.444	13.421
12489	ENSG00000131477	RAMP2	-1.2	0.0452633	0.1177207	14.792	1.335	14.016	16.334	17.838	1.356	16.718	19.346
12491	ENSG00000204764	RANBP17	-1.1	0.0903879	0.1989693	6.300	0.384	5.884	6.643	6.978	0.257	6.756	7.260
12492	ENSG00000137040	RANBP6	-1.1	0.0091733	0.03939343	43.317	0.987	42.683	44.454	48.718	1.969	46.458	50.063
12493	ENSG00000100401	RANGAP1	-1.1	0.0002716	0.0020432	96.986	1.489	96.115	98.705	111.024	7.336	102.594	115.954
12494	ENSG00000116473	RAP1A	1.1	0.0687992	0.1616562	24.106	1.100	23.021	25.221	22.918	1.371	22.024	24.496
12496	ENSG00000132359	RAP1GAP2	-1.1	0.0009965	0.0058539	25.663	0.370	25.325	26.058	29.402	0.669	28.791	30.117
12497	ENSG00000181467	RAP2B	-1.1	0.0427254	0.1123992	12.412	1.082	11.375	13.534	13.972	1.468	12.283	14.945
12498	ENSG00000232160	RAP2C- AS1	-1.2	0.0819336	0.184963	2.443	0.170	2.298	2.631	3.079	0.745	2.360	3.848
12499	ENSG00000109756	RAPGEF2	1.1	0.0219806	0.0678516	19.898	1.379	18.851	21.461	18.819	0.539	18.227	19.281

	A	B	C	D	E	F	G	H	I	J	K	L	M
12500	ENSG00000136237	RAPGEF5	1.2	0.0008475	0.0051132	4.048	0.131	3.941	4.194	3.342	0.304	3.030	3.638
12504	ENSG00000172819	RARG	-1.4	6.83E-11	4.6E-09	26.144	1.061	25.339	27.346	37.812	1.572	36.833	39.626
12505	ENSG00000106538	RARRES2	-1.1	0.0295471	0.0852636	68.243	1.486	66.636	69.568	75.615	3.065	72.714	78.822
12506	ENSG00000133321	RARRES3	3.1	7.448E-06	0.0001037	3.116	0.162	2.982	3.296	1.019	0.156	0.899	1.196
12507	ENSG00000113643	RARS	-1.1	0.006605	0.0262847	80.397	2.332	78.129	82.788	89.493	1.552	87.977	91.078
12509	ENSG00000146282	RARS2	1.1	0.0031406	0.0146326	52.491	1.954	50.462	54.359	47.670	1.481	46.742	49.378
12510	ENSG00000145715	RASA1	-1.1	0.0160152	0.0532256	42.899	2.037	40.945	45.010	47.435	1.424	46.028	48.875
12511	ENSG00000155903	RASA2	1.3	1.091E-06	2.057E-05	26.089	1.659	25.104	28.005	21.302	0.895	20.434	22.222
12512	ENSG00000075391	RASAL2	1.3	6.834E-09	2.664E-07	16.105	0.711	15.517	16.896	12.857	0.761	12.129	13.647
12514	ENSG00000224687	RASAL2-AS1	1.4	0.105293	0.2211925	2.011	0.555	1.567	2.634	1.507	0.562	0.996	2.109
12517	ENSG00000100302	RASD2	-1.2	0.0665768	0.1577712	2.865	0.124	2.728	2.969	3.545	0.628	3.095	4.263
12518	ENSG00000165105	RASEF	1.2	0.0048235	0.0205853	4.196	0.201	4.019	4.414	3.482	0.045	3.439	3.528
12520	ENSG00000113319	RASGRF2	1.6	0.0001167	0.0010254	4.297	1.047	3.570	5.497	2.799	0.353	2.478	3.177
12522	ENSG00000068831	RASGRP2	-1.3	1.728E-05	0.0002098	6.242	0.367	5.974	6.661	8.561	0.974	7.543	9.486
12523	ENSG00000270885	RASL10B	-1.2	0.0026741	0.012874	18.572	1.298	17.201	19.782	22.364	1.587	21.153	24.161
12524	ENSG00000122035	RASL11A	-1.8	0.0067758	0.0267818	0.912	0.160	0.727	1.009	1.738	0.338	1.348	1.952
12525	ENSG00000128045	RASL11B	-1.3	0.0024243	0.011847	22.990	4.537	18.169	27.176	29.891	2.448	27.072	31.475
12526	ENSG00000068028	RASSF1	-1.2	0.0613739	0.1481399	6.729	0.864	6.053	7.702	7.968	1.143	6.662	8.791
12527	ENSG00000101265	RASSF2	1.3	9.307E-05	0.0008527	12.981	0.412	12.537	13.349	10.604	0.217	10.409	10.838
12528	ENSG00000107551	RASSF4	-1.3	0.0004914	0.0033061	4.141	0.160	4.018	4.321	5.323	0.439	4.841	5.700
12529	ENSG00000246695	RASSF8-AS1	-1.2	0.0981244	0.2103661	4.190	0.552	3.555	4.562	5.011	0.838	4.252	5.911
12530	ENSG00000198774	RASSF9	2.9	0.0335579	0.0939444	0.139	0.015	0.130	0.156	0.046	0.015	0.029	0.055
12531	ENSG00000249485	RBBP4P1	-1.1	0.025456	0.0760397	39.978	6.080	35.986	46.976	46.769	2.470	44.381	49.313
12532	ENSG00000117222	RBBP5	-1.1	0.0064825	0.0258579	18.240	0.566	17.835	18.887	21.106	1.017	19.970	21.934
12533	ENSG00000101773	RBBP8	1.2	9.901E-06	0.0001325	28.483	0.542	27.946	29.030	24.321	0.870	23.405	25.136
12534	ENSG00000089050	RBBP9	1.1	0.0082865	0.0314165	22.109	0.272	21.879	22.409	19.817	1.537	18.651	21.559
12535	ENSG00000078328	RBFOX1	-2	0.0014085	0.0076943	0.198	0.001	0.198	0.200	0.412	0.075	0.325	0.457
12538	ENSG00000167281	RBFOX3	-1.1	0.1061339	0.2224891	3.211	0.083	3.125	3.292	3.659	0.203	3.431	3.822
12539	ENSG00000182872	RBM10	-1.2	0.0001647	0.0013641	42.812	0.735	42.217	43.634	50.613	3.186	48.749	54.291
12541	ENSG00000185272	RBM11	1.2	0.0566223	0.1394979	6.551	0.726	6.068	7.386	5.633	0.377	5.199	5.869
12542	ENSG00000244462	RBM12	1.1	0.0015463	0.0083025	88.521	5.480	82.414	93.010	81.643	2.028	79.883	83.860
12545	ENSG00000162775	RBM15	-1.2	0.0002758	0.0020703	13.385	0.937	12.457	14.331	16.605	0.516	16.010	16.927
12547	ENSG00000259956	RBM15B	-1.2	4.469E-05	0.0004672	44.838	0.854	43.959	45.665	52.935	3.846	48.828	56.451
12549	ENSG00000134453	RBM17	-1.1	0.0329635	0.0928413	40.559	2.949	38.195	43.863	44.603	1.588	42.823	45.875
12550	ENSG00000119446	RBM18	1.2	0.0021274	0.010639	11.732	0.148	11.562	11.827	10.161	0.254	9.869	10.330
12551	ENSG00000203867	RBM20	3.1	3.387E-07	7.745E-06	0.677	0.083	0.584	0.742	0.221	0.023	0.204	0.247
12554	ENSG00000086589	RBM22	-1.1	0.1118026	0.231107	28.386	1.516	26.997	30.003	30.937	0.348	30.544	31.208
12556	ENSG00000100461	RBM23	1.1	0.0983255	0.2106638	8.179	0.254	8.011	8.471	7.833	0.334	7.451	8.063
12557	ENSG00000139746	RBM26	-1.1	0.0238751	0.0723784	42.389	1.502	40.737	43.672	46.564	2.051	44.617	48.704
12558	ENSG00000106344	RBM28	-1.2	0.000368	0.002611	10.330	0.723	9.533	10.944	12.183	0.256	11.888	12.345
12559	ENSG00000102317	RBM3	1.1	0.0311355	0.0888618	89.187	7.988	80.372	95.946	84.511	1.923	82.957	86.661

	A	B	C	D	E	F	G	H	I	J	K	L	M
12560	ENSG00000184863	RBM33	-1.3	2.952E-08	9.547E-07	17.319	0.950	16.224	17.922	22.166	0.122	22.069	22.303
12561	ENSG00000131051	RBM39	1.2	9.882E-06	0.0001323	75.821	3.722	71.955	79.379	67.092	3.015	64.847	70.520
12563	ENSG00000089682	RBM41	-1.1	0.0956024	0.2068206	15.197	0.516	14.701	15.730	16.721	0.491	16.418	17.288
12566	ENSG00000126254	RBM42	-1.1	0.0668156	0.1581853	49.575	1.691	47.885	51.267	54.357	1.824	52.447	56.080
12567	ENSG00000177483	RBM44	1.2	0.0472905	0.1217019	1.893	0.126	1.749	1.977	1.557	0.113	1.463	1.683
12568	ENSG00000155636	RBM45	1.1	0.0338607	0.0945962	8.141	1.002	7.443	9.290	7.246	0.492	6.947	7.813
12569	ENSG00000163694	RBM47	1.2	3.352E-06	5.254E-05	20.501	1.405	19.591	22.119	17.040	0.695	16.530	17.831
12570	ENSG00000127993	RBM48	-1.2	0.0062402	0.0251168	4.988	0.735	4.141	5.464	6.304	0.453	6.019	6.827
12572	ENSG00000173914	RBM4B	1.1	0.0440488	0.115289	12.615	0.661	11.948	13.271	11.455	1.288	10.534	12.927
12574	ENSG00000003756	RBM5	-1.2	2.625E-06	4.302E-05	26.240	0.815	25.348	26.946	31.465	0.696	30.921	32.249
12575	ENSG00000004534	RBM6	-1.2	1.601E-06	2.807E-05	40.525	0.629	40.113	41.248	49.300	2.699	46.620	52.018
12576	ENSG00000076053	RBM7	1.1	0.1018896	0.2160284	16.554	0.360	16.226	16.939	15.860	0.297	15.619	16.191
12578	ENSG00000265241	RBM8A	1.1	0.0054489	0.0225764	57.165	1.023	56.529	58.345	53.187	3.652	50.308	57.295
12582	ENSG00000153250	RBMS1	-1.1	0.005664	0.0233236	30.110	1.757	28.406	31.915	34.083	1.671	32.433	35.775
12583	ENSG00000225422	RBMS1P1	-1.1	0.0586788	0.1431877	36.466	5.447	30.461	41.089	42.214	3.247	39.564	45.836
12584	ENSG00000076067	RBMS2	1.1	0.1035524	0.218704	8.020	0.470	7.493	8.395	7.553	0.576	6.956	8.106
12585	ENSG00000147274	RBMX	-1.3	3.30E-14	5.37E-12	158.530	2.547	155.740	160.730	215.477	6.102	209.460	221.660
12587	ENSG00000215210	RBMXP2	-1.5	1.134E-06	2.114E-05	18.232	0.798	17.709	19.151	27.693	1.183	26.326	28.386
12590	ENSG00000249465	RBMXP4	-1.3	0.1175431	0.2393747	3.702	0.417	3.430	4.182	4.825	1.321	3.609	6.231
12591	ENSG00000114115	RBP1	1.2	0.0103421	0.0374783	13.871	0.547	13.242	14.231	12.301	0.729	11.795	13.137
12592	ENSG00000162444	RBP7	1.3	0.0288509	0.0837495	11.352	1.087	10.382	12.526	8.772	0.484	8.356	9.304
12593	ENSG00000157110	RBPMS	1.1	0.0925053	0.2021344	67.656	2.501	65.267	70.255	65.818	3.646	62.582	69.768
12595	ENSG00000166831	RBPMS2	1.1	0.0001344	0.0011503	145.303	6.436	137.923	149.753	129.352	5.088	123.959	134.067
12596	ENSG00000131381	RBSN	-1.1	0.0116626	0.0412917	14.110	0.336	13.737	14.389	15.890	0.486	15.499	16.434
12599	ENSG00000159200	RCAN1	1.3	0.0026346	0.0127158	3.327	0.321	3.044	3.675	2.619	0.365	2.200	2.864
12600	ENSG00000172348	RCAN2	1.3	0.0002051	0.0016246	13.341	0.539	12.856	13.921	10.776	0.985	9.832	11.797
12601	ENSG00000117602	RCAN3	1.1	0.0130361	0.0451246	9.488	0.334	9.185	9.847	8.586	0.273	8.361	8.890
12603	ENSG00000136144	RCBTB1	1.2	1.621E-05	0.0001984	55.670	0.650	55.264	56.420	48.802	0.874	47.908	49.654
12604	ENSG00000136161	RCBTB2	1.1	0.1058879	0.2220836	13.132	0.595	12.566	13.753	12.282	0.510	11.863	12.850
12608	ENSG00000180198	RCC1	-1.1	0.0002747	0.0020629	62.225	1.331	60.873	63.534	71.405	1.972	69.821	73.614
12610	ENSG00000179051	RCC2	1.1	2.005E-06	3.401E-05	419.710	12.232	406.041	429.624	373.751	17.395	355.666	390.363
12611	ENSG00000166965	RCCD1	-1.1	0.004313	0.0188442	14.487	0.574	13.855	14.975	17.008	0.943	15.987	17.846
12613	ENSG00000049449	RCN1	1.2	1.2E-07	3.2E-06	71.372	0.408	71.035	71.826	61.597	1.837	59.705	63.375
12614	ENSG00000214455	RCN1P2	1.2	3.782E-06	5.83E-05	136.359	6.644	130.193	143.395	113.164	2.530	110.315	115.149
12615	ENSG00000142552	RCN3	-1.3	0.0003912	0.0027462	12.502	0.755	11.859	13.332	16.545	0.576	15.991	17.140
12616	ENSG00000167771	RCOR2	-1.4	4.152E-10	2.236E-08	38.229	0.354	37.981	38.635	54.474	3.480	50.712	57.579
12620	ENSG00000117625	RCOR3	1.1	0.0776711	0.1773047	8.427	0.318	8.177	8.785	7.926	0.087	7.838	8.011
12625	ENSG00000072042	RDH11	1.2	4.867E-08	1.462E-06	78.679	2.293	76.032	80.055	66.510	2.277	64.000	68.442
12629	ENSG00000139988	RDH12	1.4	0.0706295	0.1648868	1.740	0.149	1.568	1.834	1.304	0.195	1.133	1.516
12631	ENSG00000160439	RDH13	-1.3	0.0005192	0.003456	2.872	0.065	2.808	2.938	3.759	0.324	3.415	4.059
12632	ENSG00000139547	RDH16	-1.7	0.0011607	0.0066299	1.283	0.177	1.108	1.462	2.199	0.430	1.704	2.483
12635	ENSG00000137710	RDX	1.1	0.0234831	0.0714977	55.375	1.259	54.416	56.800	52.772	0.759	52.125	53.608
12637	ENSG00000100918	REC8	1.4	3.669E-05	0.0003947	13.049	0.821	12.483	13.990	9.816	1.606	8.119	11.311

	A	B	C	D	E	F	G	H	I	J	K	L	M
12639	ENSG00000122707	RECK	-1.1	0.0395978	0.1060856	7.473	0.657	6.941	8.207	8.592	0.298	8.272	8.862
12640	ENSG00000004700	RECQL	1.1	0.0073512	0.0285687	58.633	0.218	58.404	58.837	54.412	2.376	52.279	56.973
12641	ENSG00000160957	RECQL4	-1.1	0.0255663	0.076248	26.607	0.904	25.605	27.361	30.079	3.487	27.342	34.005
12642	ENSG00000108469	RECQL5	-1.1	0.054081	0.1348875	8.150	0.623	7.579	8.814	9.164	0.453	8.662	9.545
12645	ENSG00000068615	REEP1	1.6	0.0072121	0.0281601	0.917	0.120	0.803	1.043	0.603	0.042	0.577	0.651
12646	ENSG00000165476	REEP3	1.1	0.0424317	0.1118529	25.352	1.493	24.329	27.064	23.849	0.354	23.468	24.169
12647	ENSG00000168476	REEP4	-1.2	0.0033005	0.0152103	12.722	1.301	11.769	14.204	16.121	0.686	15.420	16.792
12648	ENSG00000129625	REEP5	1.3	2.749E-08	8.924E-07	62.331	0.421	61.890	62.729	50.894	2.828	48.093	53.749
12649	ENSG00000162924	REL	1.3	0.0031587	0.014697	2.598	0.389	2.151	2.859	2.050	0.266	1.766	2.293
12650	ENSG00000102032	RENBP	1.5	1.973E-07	4.914E-06	18.780	0.779	17.926	19.451	12.523	0.153	12.413	12.697
12651	ENSG00000214022	REPIN1	1.1	0.0143386	0.0487358	47.029	0.864	46.050	47.685	43.988	2.880	42.072	47.300
12653	ENSG00000135597	REPS1	-1.2	6.967E-08	1.977E-06	19.024	0.351	18.712	19.405	24.188	1.258	22.870	25.375
12654	ENSG00000169891	REPS2	1.1	0.0962607	0.2076868	3.851	0.183	3.709	4.057	3.553	0.328	3.246	3.899
12656	ENSG00000084093	REST	1.1	0.0260412	0.077337	38.481	0.384	38.109	38.876	36.625	1.123	35.333	37.371
12657	ENSG00000165731	RET	-1.1	0.055531	0.1375908	4.337	0.316	3.974	4.549	5.077	0.335	4.843	5.461
12658	ENSG00000042445	RETSAT	-1.3	2.014E-05	0.0002385	14.483	1.755	13.280	16.497	19.314	1.718	17.411	20.751
12659	ENSG00000135945	REV1	1.2	7.578E-05	0.0007205	16.872	0.566	16.492	17.522	14.388	1.160	13.468	15.692
12660	ENSG00000009413	REV3L	-1.1	0.0575066	0.1411009	5.920	0.474	5.600	6.464	6.684	0.509	6.124	7.119
12661	ENSG00000079313	REXO1	-1.1	0.0304607	0.0872451	18.254	0.397	18.016	18.713	20.804	2.418	18.490	23.314
12663	ENSG00000076043	REXO2	1.1	0.0021061	0.0105665	50.280	2.377	48.088	52.807	45.887	2.076	43.973	48.094
12667	ENSG00000148300	REXO4	-1.2	4.981E-05	0.0005121	29.014	1.120	27.722	29.707	36.539	2.812	34.474	39.741
12672	ENSG00000035928	RFC1	-1.1	0.0046885	0.0201361	55.919	2.007	53.827	57.829	61.937	1.113	60.858	63.081
12674	ENSG00000049541	RFC2	1.1	0.0891484	0.1966813	73.684	4.833	68.981	78.637	70.602	3.584	66.574	73.435
12676	ENSG00000133119	RFC3	1.2	4.198E-05	0.0004437	75.011	1.871	73.257	76.981	65.150	5.123	60.241	70.463
12679	ENSG00000163918	RFC4	-1.1	0.0122908	0.043021	72.261	2.427	69.462	73.796	80.335	1.942	78.404	82.287
12682	ENSG00000178882	RFLNA	-1.7	0.0001181	0.0010355	2.100	0.401	1.831	2.561	3.596	0.222	3.419	3.845
12685	ENSG00000183688	RFLNB	1.3	8.958E-06	0.0001213	26.145	2.148	23.935	28.225	21.134	0.228	20.878	21.316
12687	ENSG00000169733	RFNG	-1.2	0.0113359	0.0403036	11.997	0.822	11.085	12.682	14.181	0.952	13.099	14.891
12688	ENSG00000205853	RFPL3S	-1.6	0.0133612	0.0460428	1.491	0.369	1.238	1.914	2.398	0.220	2.144	2.534
12689	ENSG00000163933	RFT1	1.1	0.1039662	0.2193315	11.928	0.538	11.348	12.410	11.165	0.728	10.552	11.970
12691	ENSG00000162944	RFTN2	-2.1	8.675E-05	0.0008044	0.526	0.084	0.446	0.614	1.119	0.276	0.801	1.306
12693	ENSG00000080298	RFX3	-1.8	2.39E-12	2.418E-10	3.846	0.093	3.743	3.926	7.065	0.982	6.368	8.188
12695	ENSG00000133111	RFXAP	1.1	0.040827	0.1086215	23.171	1.221	22.231	24.551	21.134	0.575	20.553	21.703
12700	ENSG00000143344	RGL1	1.4	0.0044581	0.0193481	2.112	0.161	1.938	2.256	1.565	0.132	1.434	1.699
12702	ENSG00000237441	RGL2	-1.1	0.0116667	0.0412974	30.888	0.396	30.447	31.213	34.871	3.169	32.047	38.299
12704	ENSG00000205517	RGL3	-1.2	0.0076406	0.0295208	13.529	0.659	12.772	13.982	16.047	1.207	14.667	16.903
12705	ENSG00000182175	RGMA	-1.3	3.239E-06	5.091E-05	6.726	0.525	6.123	7.083	8.855	0.594	8.382	9.521
12706	ENSG00000107185	RGP1	-1.1	0.0098155	0.0359171	22.351	0.698	21.620	23.009	25.055	1.050	23.851	25.781
12707	ENSG00000148908	RGS10	-1.3	0.0049591	0.0210155	17.317	1.682	15.566	18.921	22.363	3.450	19.350	26.126
12708	ENSG00000169220	RGS14	-1.2	0.0068387	0.0269666	12.635	1.348	11.143	13.765	15.121	0.652	14.372	15.570
12709	ENSG00000143333	RGS16	-1.2	0.0134614	0.0463033	8.155	0.882	7.244	9.003	10.392	2.362	7.807	12.437
12710	ENSG00000171700	RGS19	-1.2	0.1023947	0.2166919	6.210	1.091	4.951	6.848	7.525	1.194	6.170	8.424
12712	ENSG00000147509	RGS20	1.8	0.0030495	0.0142942	1.454	0.225	1.296	1.711	0.820	0.208	0.637	1.046

	A	B	C	D	E	F	G	H	I	J	K	L	M
12716	ENSG00000138835	RGS3	1.1	0.0297083	0.0855972	4.789	0.127	4.645	4.881	4.348	0.499	3.772	4.638
12717	ENSG00000143248	RGS5	1.7	2.40E-16	6.45E-14	40.607	2.922	37.274	42.723	24.982	0.599	24.516	25.658
12718	ENSG00000182732	RGS6	1.2	0.0871149	0.1933616	1.011	0.113	0.934	1.140	0.837	0.109	0.765	0.963
12719	ENSG00000186479	RGS7BP	-1.3	0.0336802	0.0942166	1.206	0.102	1.113	1.315	1.633	0.199	1.448	1.844
12723	ENSG00000108370	RGS9	1.3	7.888E-05	0.0007453	6.760	0.218	6.632	7.012	5.409	0.365	5.014	5.732
12724	ENSG00000144468	RHBDD1	1.3	1.721E-06	2.973E-05	14.899	0.419	14.539	15.358	11.865	0.978	10.795	12.713
12726	ENSG00000007384	RHBDF1	1.1	0.0258878	0.0769626	20.836	1.316	20.023	22.354	19.131	2.013	17.635	21.420
12727	ENSG00000141314	RHBDL3	-1.2	0.0460296	0.1191641	6.127	0.769	5.273	6.766	7.279	1.395	5.837	8.621
12728	ENSG00000167550	RHEBL1	1.2	0.0373326	0.1014797	11.060	0.730	10.625	11.903	9.321	0.594	8.788	9.961
12729	ENSG00000067560	RHOA	-1.1	0.0209659	0.0654839	406.131	2.547	404.141	409.002	438.799	3.973	434.742	442.683
12733	ENSG00000164292	RHOBTB3	1.1	0.0751038	0.1726091	11.756	1.244	10.564	13.047	10.762	1.571	9.037	12.111
12734	ENSG00000155366	RHOC	-1.1	0.1078612	0.2254117	13.680	0.658	12.939	14.194	15.254	0.382	14.988	15.692
12736	ENSG00000139725	RHOF	-1.2	0.0085339	0.0320815	5.664	0.151	5.494	5.784	6.763	0.397	6.345	7.135
12737	ENSG00000177105	RHOG	-1.3	0.0004913	0.0033061	16.677	1.097	15.801	17.908	21.674	1.366	20.306	23.038
12738	ENSG00000119729	RHOQ	1.1	0.0248712	0.0747151	44.785	0.467	44.247	45.076	42.196	2.600	39.337	44.420
12741	ENSG00000258568	RHOQP1	-1.3	0.100185	0.2135386	6.423	1.789	4.721	8.287	8.569	0.712	8.104	9.388
12742	ENSG00000232742	RHOQP2	1.3	0.0677706	0.159861	15.736	1.509	14.182	17.196	12.673	3.942	8.239	15.779
12743	ENSG00000230756	RHOQP3	1.3	0.0380507	0.1029519	11.623	0.955	10.646	12.555	8.972	1.837	6.883	10.336
12744	ENSG00000126858	RHOT1	-1.1	0.0021264	0.0106372	30.099	0.175	29.940	30.286	34.397	1.923	32.971	36.584
12750	ENSG00000242756	RHOT1P3	-1.3	0.1101676	0.2287323	15.839	3.182	12.454	18.770	20.298	3.255	17.480	23.861
12751	ENSG00000140983	RHOT2	-1.1	0.0135555	0.0465608	38.381	0.200	38.152	38.528	42.633	1.263	41.241	43.705
12752	ENSG00000116574	RHOU	-1.2	0.003189	0.0147931	8.109	0.138	7.970	8.245	10.056	1.321	8.774	11.413
12753	ENSG00000104140	RHOV	-1.3	0.0709029	0.1653358	2.782	0.558	2.338	3.408	3.682	0.203	3.552	3.915
12757	ENSG00000258545	RHOXF1-AS1	1.5	0.000304	0.0022328	6.866	0.569	6.454	7.515	4.676	0.822	3.761	5.351
12759	ENSG00000158106	RHPN1	-1.3	0.0005368	0.0035451	9.633	1.148	8.464	10.758	12.476	1.318	11.200	13.833
12761	ENSG00000131941	RHPN2	-1.2	1.959E-06	3.33E-05	20.184	0.047	20.151	20.238	25.595	0.387	25.148	25.829
12762	ENSG00000107036	RIC1	1.1	0.0022379	0.011077	21.651	0.444	21.379	22.163	19.873	0.663	19.252	20.572
12763	ENSG00000177963	RIC8A	1.1	0.0979423	0.2100822	17.358	0.099	17.250	17.443	16.568	1.260	15.428	17.921
12764	ENSG00000132541	RIDA	-1.1	0.0067225	0.0266273	54.669	2.464	51.855	56.439	63.412	1.351	61.881	64.433
12770	ENSG00000080345	RIF1	-1.1	0.0635497	0.1522189	35.764	0.284	35.436	35.934	38.511	0.436	38.062	38.934
12771	ENSG00000188026	RILPL1	1.1	0.1010545	0.2146076	3.696	0.336	3.389	4.056	3.379	0.344	3.139	3.773
12773	ENSG00000060709	RIMBP2	2.3	0.0336411	0.0941382	0.167	0.111	0.087	0.294	0.073	0.079	0.020	0.164
12775	ENSG00000177181	RIMKLA	-1.4	3.129E-05	0.0003456	2.392	0.426	1.907	2.704	3.468	0.138	3.309	3.549
12776	ENSG00000166532	RIMKLB	-1.1	0.0014477	0.0078529	74.585	2.330	71.984	76.480	83.730	3.050	80.441	86.464
12778	ENSG00000117016	RIMS3	1.1	0.0443485	0.1158206	29.382	2.844	26.162	31.549	27.755	0.827	27.103	28.686
12779	ENSG00000101098	RIMS4	-1.3	6.201E-06	8.873E-05	22.921	2.281	21.072	25.470	29.593	1.800	27.793	31.394
12781	ENSG00000132669	RIN2	-1.4	0.1136856	0.2335924	0.508	0.073	0.438	0.585	0.710	0.202	0.495	0.898
12783	ENSG00000100599	RIN3	1.3	0.1088303	0.2267086	0.751	0.055	0.697	0.806	0.612	0.020	0.594	0.634
12785	ENSG00000204227	RING1	-1.1	0.0375899	0.1019986	24.364	0.984	23.648	25.486	28.011	0.468	27.539	28.475
12787	ENSG00000135249	RINT1	-1.2	0.0001816	0.001478	17.299	1.532	15.530	18.190	21.731	1.376	20.353	23.104
12788	ENSG00000124784	RIOK1	-1.3	1.428E-06	2.557E-05	21.004	1.946	18.941	22.806	28.814	2.509	26.531	31.501
12792	ENSG00000058729	RIOK2	-1.1	0.0158864	0.052839	19.941	0.819	18.999	20.488	22.719	0.370	22.385	23.117

	A	B	C	D	E	F	G	H	I	J	K	L	M
12794	ENSG00000101782	RIOK3	-1.2	0.0019916	0.0101426	13.877	0.720	13.108	14.534	16.454	1.240	15.287	17.755
12795	ENSG00000170854	RIOX2	1.4	1.97E-06	3.346E-05	7.375	0.600	6.713	7.881	5.246	0.187	5.034	5.385
12796	ENSG00000137275	RIPK1	1.3	3.471E-06	5.418E-05	17.791	1.878	16.057	19.786	13.772	0.582	13.160	14.318
12799	ENSG00000183421	RIPK4	-1.4	0.0012233	0.0069012	3.978	0.526	3.590	4.576	5.542	0.763	4.759	6.282
12800	ENSG00000039523	RIPOR1	1.3	0.0001311	0.0011277	6.686	0.538	6.166	7.240	5.182	0.739	4.408	5.880
12802	ENSG00000111913	RIPOR2	1.6	1.00E-11	8.568E-10	16.292	1.672	14.580	17.921	10.335	0.855	9.435	11.136
12803	ENSG00000042062	RIPOR3	-1.3	0.0101916	0.0370213	1.618	0.071	1.537	1.671	2.227	0.431	1.833	2.688
12807	ENSG00000183145	RIPPLY3	1.3	0.01575	0.0524577	4.940	0.527	4.332	5.268	3.795	0.589	3.348	4.462
12810	ENSG00000152214	RIT2	-1.4	0.0381795	0.1031518	2.322	0.126	2.177	2.405	3.319	0.118	3.183	3.396
12812	ENSG00000117000	RLF	-1.2	8.109E-06	0.0001114	16.836	0.885	16.203	17.847	21.017	0.966	20.280	22.110
12814	ENSG00000131263	RLIM	-1.2	4.324E-08	1.322E-06	27.505	0.751	27.018	28.370	34.838	1.414	33.723	36.429
12818	ENSG00000107018	RLN1	1.5	0.0633168	0.1518974	3.109	0.698	2.412	3.808	2.079	1.049	0.909	2.934
12821	ENSG00000107014	RLN2	1.2	0.0664587	0.1575219	11.411	0.435	10.917	11.736	9.753	1.553	8.771	11.544
12822	ENSG00000176623	RMDN1	1.1	0.0376471	0.1021211	19.869	0.129	19.743	20.002	18.607	1.102	17.784	19.859
12823	ENSG00000115841	RMDN2	1.6	0.0011464	0.0065592	1.597	0.124	1.477	1.724	1.016	0.131	0.918	1.165
12824	ENSG00000175643	RMI2	-1.1	0.0215702	0.0669151	59.058	4.268	55.975	63.930	66.056	2.522	63.822	68.790
12826	ENSG00000155906	RMND1	1.2	0.0028182	0.0134037	23.673	2.079	22.351	26.070	20.038	1.164	18.916	21.239
12828	ENSG00000129538	RNASE1	1.7	0.0011144	0.0064285	4.916	0.497	4.353	5.294	2.914	0.837	2.372	3.879
12829	ENSG00000172602	RND1	-1.2	0.0124542	0.0434396	6.547	0.323	6.298	6.913	8.141	0.799	7.223	8.680
12833	ENSG00000108830	RND2	-1.1	0.0110525	0.0394952	50.015	3.300	46.671	53.268	57.852	6.673	50.147	61.756
12834	ENSG00000115963	RND3	1.4	6.86E-09	2.667E-07	29.684	1.408	28.354	31.159	22.289	1.271	21.000	23.542
12835	ENSG00000128482	RNF112	-1.4	0.005498	0.0227355	2.055	0.385	1.658	2.427	2.979	0.342	2.698	3.359
12837	ENSG00000125352	RNF113A	-1.2	0.0196053	0.0620017	16.021	1.666	14.195	17.460	19.558	1.364	18.033	20.661
12838	ENSG00000124226	RNF114	1.1	0.0019406	0.0099362	46.784	1.453	45.170	47.988	43.024	1.367	41.530	44.212
12839	ENSG00000070423	RNF126	-1.2	0.0584648	0.1427685	19.356	2.119	17.004	21.116	22.998	3.057	20.861	26.499
12840	ENSG00000082996	RNF13	1.1	0.1009088	0.2144425	24.187	1.451	22.727	25.630	23.030	0.671	22.280	23.575
12841	ENSG00000113269	RNF130	1.2	1.281E-05	0.0001646	20.757	0.765	19.939	21.455	18.026	0.556	17.636	18.662
12842	ENSG00000181481	RNF135	1.2	0.0045809	0.0197697	10.912	0.789	10.234	11.777	9.175	1.089	8.018	10.179
12843	ENSG00000250853	RNF138P1	1.3	0.0559603	0.1383353	12.617	1.210	11.222	13.394	9.892	1.338	8.558	11.235
12845	ENSG00000170881	RNF139	1.1	0.1048301	0.220631	31.821	1.531	30.076	32.940	30.214	0.649	29.507	30.781
12849	ENSG00000013561	RNF14	1.1	0.0243009	0.0733799	14.542	0.678	13.772	15.049	13.318	0.934	12.674	14.390
12853	ENSG00000110315	RNF141	1.2	3.143E-05	0.0003468	20.437	0.763	19.758	21.264	17.581	0.161	17.476	17.766
12855	ENSG00000228203	RNF144A-AS1	1.5	0.0209343	0.0654217	1.210	0.256	0.930	1.429	0.809	0.082	0.718	0.875
12857	ENSG00000145860	RNF145	-1.2	3.156E-06	4.985E-05	46.542	1.601	44.703	47.615	56.140	1.873	54.745	58.268
12858	ENSG00000163162	RNF149	-1.1	0.057883	0.1418393	18.061	0.496	17.585	18.574	20.218	1.945	18.658	22.397
12859	ENSG00000141576	RNF157	1.2	0.0137405	0.0470623	7.026	1.070	5.791	7.669	6.002	0.198	5.873	6.230
12860	ENSG00000141622	RNF165	-1.2	0.0183137	0.0589081	1.639	0.222	1.474	1.892	2.054	0.107	1.986	2.178
12861	ENSG00000158717	RNF166	-1.2	0.00091	0.0054019	9.234	0.653	8.511	9.778	11.519	0.590	11.027	12.173
12862	ENSG00000108523	RNF167	-1.1	0.0002903	0.0021545	67.495	0.822	66.720	68.357	78.362	1.930	76.449	80.308
12864	ENSG00000166439	RNF169	-1.3	5.319E-06	7.836E-05	11.324	1.139	10.078	12.313	15.128	1.522	13.440	16.394
12865	ENSG00000120925	RNF170	1.1	0.0591675	0.1440892	13.119	0.537	12.770	13.737	12.079	1.202	10.942	13.337

	A	B	C	D	E	F	G	H	I	J	K	L	M
12867	ENSG00000180537	RNF182	1.1	0.0883879	0.1954123	7.702	0.114	7.617	7.832	6.928	0.314	6.577	7.181
12868	ENSG00000138942	RNF185	1.1	0.0999995	0.2132507	29.571	2.176	27.388	31.739	28.187	0.907	27.508	29.217
12871	ENSG00000168159	RNF187	1.4	2.936E-09	1.267E-07	47.537	1.684	46.396	49.471	35.770	2.602	32.869	37.898
12873	ENSG00000034677	RNF19A	1.4	1.931E-08	6.559E-07	14.816	0.763	14.081	15.604	10.813	0.852	9.888	11.566
12874	ENSG00000116514	RNF19B	-1.1	0.0571986	0.1405287	23.435	1.420	22.433	25.060	26.400	1.084	25.229	27.367
12877	ENSG00000158286	RNF207	-1.7	5.576E-05	0.0005597	1.087	0.148	0.920	1.199	1.890	0.236	1.622	2.066
12878	ENSG00000178222	RNF212	1.7	0.0062961	0.0253056	1.027	0.224	0.856	1.281	0.628	0.225	0.375	0.807
12880	ENSG00000173821	RNF213	1.1	0.0415699	0.1101131	14.840	0.205	14.630	15.039	14.217	0.337	14.008	14.605
12881	ENSG00000099999	RNF215	-1.2	0.0056382	0.0232527	3.527	0.211	3.338	3.755	4.327	0.211	4.093	4.505
12882	ENSG00000146373	RNF217	1.2	0.0183463	0.0589682	2.971	0.212	2.821	3.214	2.609	0.236	2.338	2.766
12883	ENSG00000187147	RNF220	-1.1	0.005571	0.0230036	22.366	1.165	21.094	23.380	25.110	0.488	24.601	25.574
12884	ENSG00000173456	RNF26	-1.1	0.0002372	0.001833	95.114	0.374	94.726	95.472	110.776	6.995	104.202	118.127
12887	ENSG00000092098	RNF31	-1.1	0.0873496	0.1937267	6.641	0.409	6.283	7.087	7.651	1.076	6.901	8.884
12888	ENSG00000170633	RNF34	-1.2	0.0001078	0.0009596	21.985	0.910	21.070	22.889	26.662	1.121	25.781	27.924
12889	ENSG00000137075	RNF38	1.1	0.0804127	0.1819669	31.402	1.223	30.453	32.783	30.072	2.384	28.054	32.702
12891	ENSG00000204618	RNF39	-1.5	0.064394	0.1536782	1.031	0.386	0.602	1.351	1.572	0.308	1.276	1.891
12895	ENSG00000103549	RNF40	-1.2	0.0002764	0.002073	17.599	0.347	17.361	17.998	20.910	0.871	19.975	21.699
12896	ENSG00000114125	RNF7	1.1	0.0361079	0.0991386	56.751	2.510	55.021	59.630	53.590	0.673	52.852	54.171
12897	ENSG00000112130	RNF8	-1.1	0.0012111	0.0068551	16.601	0.734	16.020	17.425	19.417	0.126	19.291	19.544
12898	ENSG00000189050	RNFT1	1.4	0.0048997	0.0208159	5.024	0.677	4.252	5.517	3.749	1.024	2.577	4.468
12899	ENSG00000111880	RNGTT	-1.1	0.0036403	0.0164622	32.971	0.897	32.337	33.998	37.401	1.896	35.224	38.686
12900	ENSG00000176393	RNPEP	-1.1	0.0067174	0.0266135	47.667	1.052	46.464	48.411	53.681	2.238	51.692	56.104
12901	ENSG00000205937	RNPS1	-1.1	9.989E-05	0.0009035	45.144	1.640	43.302	46.446	52.744	3.582	50.524	56.877
12903	ENSG00000250896	RNPS1P1	-1.1	0.0575375	0.1411562	79.364	3.340	75.511	81.434	89.056	2.233	86.625	91.014
12905	ENSG00000169855	ROBO1	-1.1	0.0254896	0.0760729	63.654	3.948	59.663	67.557	69.464	2.317	67.404	71.972
12912	ENSG00000185008	ROBO2	-2.1	8.34E-11	5.486E-09	0.853	0.092	0.751	0.930	1.804	0.207	1.566	1.924
12913	ENSG00000067900	ROCK1	-1.1	0.0206964	0.0647866	36.725	0.325	36.420	37.067	40.237	1.671	38.325	41.416
12918	ENSG00000134318	ROCK2	1.2	6.061E-07	1.264E-05	19.150	0.360	18.753	19.458	16.129	0.549	15.568	16.665
12920	ENSG00000069667	RORA	-1.5	1.035E-07	2.814E-06	2.162	0.153	2.003	2.308	3.340	0.341	2.946	3.545
12921	ENSG00000198963	RORB	-1.2	0.0191201	0.0608398	1.909	0.252	1.693	2.186	2.391	0.335	2.006	2.610
12922	ENSG00000132383	RPA1	-1.1	0.0165474	0.0544911	85.891	0.497	85.544	86.459	93.921	1.701	92.225	95.628
12923	ENSG00000129197	RPAIN	-1.1	0.0005134	0.0034307	24.435	0.938	23.404	25.237	28.318	0.899	27.298	28.996
12925	ENSG00000103932	RPAP1	-1.2	1.039E-05	0.0001376	30.929	0.534	30.533	31.536	37.273	2.673	35.386	40.332
12931	ENSG00000235376	RPEL1	-1.2	0.0477473	0.1226161	4.878	0.495	4.512	5.441	6.177	1.354	4.662	7.269
12932	ENSG00000117133	RPF1	1.1	0.0309932	0.0885452	59.199	1.588	58.025	61.006	55.401	2.694	52.314	57.271
12933	ENSG00000142676	RPL11	-1.1	0.033516	0.0938815	1207.600	26.993	1176.490	1224.812	1297.421	34.278	1266.896	1334.505
12935	ENSG00000197958	RPL12	-1.1	0.0009727	0.0057322	350.931	5.664	345.651	356.912	392.969	8.058	384.899	401.016
12938	ENSG00000185834	RPL12P4	-1.1	0.0413805	0.1097317	1339.678	48.957	1293.799	1391.221	1445.207	40.887	1407.921	1488.931
12939	ENSG00000219932	RPL12P8	-1.2	0.0341612	0.0953257	21.100	0.775	20.317	21.867	26.268	0.824	25.326	26.857
12940	ENSG00000167526	RPL13	-1.1	0.0630132	0.1513623	258.786	13.212	250.750	274.035	284.531	16.269	270.055	302.138
12943	ENSG00000240370	RPL13P5	1.4	0.0056542	0.0233013	6.370	0.642	5.631	6.795	4.660	0.721	3.832	5.148
12944	ENSG00000265681	RPL17	-1.1	0.0129206	0.0447801	98.626	2.783	96.604	101.800	109.460	2.437	108.004	112.273
12947	ENSG00000063177	RPL18	-1.1	0.013809	0.0472682	332.748	7.675	326.334	341.251	362.923	7.484	357.921	371.527

	A	B	C	D	E	F	G	H	I	J	K	L	M
12953	ENSG00000220749	RPL21P28	-1.1	0.0550339	0.1368002	196.797	5.654	190.367	200.991	217.470	7.290	212.094	225.767
12955	ENSG00000116251	RPL22	1	0.1140843	0.2341352	234.620	4.329	229.703	237.859	229.277	11.241	222.672	242.256
12956	ENSG00000163584	RPL22L1	-1.3	2.361E-09	1.054E-07	62.061	4.050	57.419	64.872	84.211	4.231	79.786	88.218
12958	ENSG00000243422	RPL23AP49	1.5	0.0859238	0.1914916	2.472	0.595	2.077	3.157	1.683	0.288	1.365	1.924
12960	ENSG00000243964	RPL23AP65	-1.1	0.0589496	0.1436828	139.140	8.391	131.975	148.371	158.239	18.000	141.611	177.352
12961	ENSG00000184319	RPL23AP82	1.3	0.0024871	0.0121188	7.351	1.145	6.273	8.552	5.921	0.678	5.486	6.702
12962	ENSG00000114391	RPL24	-1.1	0.0033727	0.0154756	434.072	11.185	421.644	443.329	480.001	14.127	463.851	490.064
12963	ENSG00000181524	RPL24P4	-1.1	0.0923595	0.20191	1067.692	26.586	1037.487	1087.545	1146.566	36.888	1105.629	1177.225
12964	ENSG00000236801	RPL24P8	-1.2	6.356E-05	0.0006249	240.549	4.267	236.000	244.464	292.429	6.565	286.419	299.435
12965	ENSG00000236264	RPL26P30	-1.2	0.0327094	0.092287	32.760	1.101	31.876	33.993	39.307	5.726	35.318	45.868
12967	ENSG00000131469	RPL27	-1.1	0.0019145	0.0098293	697.721	10.241	687.653	708.126	769.258	10.213	758.180	778.299
12968	ENSG00000108107	RPL28	-1.1	0.049832	0.1266239	155.278	2.026	152.939	156.493	166.902	2.610	164.131	169.314
12969	ENSG00000162244	RPL29	-1.1	0.0011411	0.0065335	351.495	6.610	345.888	358.784	395.995	16.236	379.746	412.218
12972	ENSG00000224858	RPL29P11	-1.1	0.0628363	0.1510448	159.971	11.805	151.321	173.420	181.346	12.437	167.341	191.102
12973	ENSG00000100316	RPL3	-1.1	0.0328701	0.0927017	1064.730	10.757	1052.615	1073.163	1143.402	19.694	1124.223	1163.574
12974	ENSG00000071082	RPL31	-1.1	0.0010394	0.0060641	288.939	1.028	287.830	289.862	323.947	6.933	316.012	328.830
12976	ENSG00000251474	RPL32P3	-1.1	0.0195972	0.0619875	12.209	0.502	11.632	12.541	14.075	0.459	13.554	14.420
12978	ENSG00000109475	RPL34	-1.1	3.1E-05	0.0003429	250.949	2.542	248.388	253.472	294.381	11.839	280.727	301.788
12979	ENSG00000136942	RPL35	-1	0.1084842	0.226217	677.457	19.293	657.153	695.549	722.839	25.266	694.184	741.914
12981	ENSG00000182899	RPL35A	-1.1	2.207E-05	0.0002587	416.921	8.878	407.835	425.576	481.348	13.215	471.088	496.259
12982	ENSG00000145592	RPL37	-1.1	0.0474768	0.1220146	250.432	4.895	245.723	255.493	269.173	8.675	259.239	275.255
12984	ENSG00000172809	RPL38	-1.1	0.0532955	0.1333808	220.087	1.495	218.479	221.436	237.575	11.657	224.734	247.490
12985	ENSG00000198918	RPL39	-1.1	0.025728	0.0766358	104.108	5.236	98.208	108.205	115.255	3.339	113.029	119.095
12986	ENSG00000163923	RPL39L	1.1	0.0031384	0.0146266	156.497	3.889	152.276	159.937	143.113	8.035	135.011	151.080
12988	ENSG00000227939	RPL3P2	-1.1	0.0822855	0.1855098	19.452	1.152	18.679	20.776	22.800	0.830	21.924	23.574
12989	ENSG00000232573	RPL3P4	-1.1	0.016388	0.0540998	3244.633	87.722	3184.804	3345.333	3550.674	79.296	3459.451	3603.122
12994	ENSG00000229117	RPL41	-1.1	0.0165377	0.0544803	546.188	6.963	538.681	552.436	596.611	14.563	583.223	612.117
12999	ENSG00000234009	RPL5P34	1.1	0.0387092	0.1042293	264.597	11.005	251.904	271.467	247.947	20.877	223.979	262.162
13001	ENSG00000089009	RPL6	-1	0.0740076	0.1708093	257.519	8.706	250.508	267.264	275.110	7.242	270.329	283.442
13003	ENSG00000148303	RPL7A	-1.1	0.0334046	0.0936937	642.929	9.955	635.287	654.187	694.084	21.984	668.700	706.870
13004	ENSG00000213609	RPL7AP50	-1.1	0.0373646	0.1015504	107.942	2.323	106.072	110.543	122.453	12.434	109.008	133.538
13005	ENSG00000242071	RPL7AP6	-1.1	0.0556601	0.1378502	1704.030	60.250	1663.731	1773.292	1836.005	39.677	1809.919	1881.665
13008	ENSG00000146223	RPL7L1	-1.1	0.0687742	0.1616198	47.110	1.839	45.234	48.909	50.682	1.037	49.929	51.864
13009	ENSG00000214485	RPL7P1	-1.1	0.0581775	0.1423153	1746.897	15.703	1731.023	1762.422	1875.282	16.323	1865.771	1894.130
13010	ENSG00000231579	RPL7P21	-1.2	0.05653	0.1393518	22.907	1.270	21.449	23.774	27.692	1.764	26.108	29.592
13013	ENSG00000161016	RPL8	-1	0.0970013	0.208646	1442.116	18.252	1430.386	1463.145	1529.765	10.430	1523.109	1541.786
13014	ENSG00000163682	RPL9	-1.1	0.0019662	0.0100373	49.717	1.915	48.186	51.864	57.114	0.716	56.294	57.616

	A	B	C	D	E	F	G	H	I	J	K	L	M
13017	ENSG00000238103	RPL9P7	-1.1	0.0349186	0.0968002	2225.995	17.481	2205.971	2238.208	2398.493	37.645	2355.622	2426.150
13019	ENSG00000237550	RPL9P9	-1.1	0.0165294	0.0544742	2743.516	27.274	2713.425	2766.611	2973.402	12.727	2961.800	2987.015
13020	ENSG00000177600	RPLP2	-1.1	0.0079309	0.0304209	533.023	6.931	525.563	539.262	586.161	24.114	560.074	607.636
13022	ENSG00000163902	RPN1	1	0.0827878	0.1863193	137.642	4.458	132.527	140.692	134.207	3.061	130.674	136.076
13026	ENSG00000118705	RPN2	-1.1	0.0307155	0.0878557	303.417	7.788	295.433	310.992	327.432	2.432	325.143	329.985
13028	ENSG00000163684	RPP14	-1.3	7.65E-05	0.0007254	5.980	0.130	5.836	6.089	7.804	0.827	7.209	8.749
13033	ENSG00000241370	RPP21	1.3	0.0563626	0.139081	5.103	0.368	4.824	5.520	4.061	0.358	3.741	4.448
13036	ENSG00000124787	RPP40	1.2	0.0210869	0.0657892	15.321	1.483	13.896	16.856	13.278	0.951	12.190	13.950
13037	ENSG00000141425	RPRD1A	-1.1	0.00455	0.0196662	77.115	3.984	74.622	81.710	85.707	0.192	85.536	85.915
13039	ENSG00000177519	RPRM	1.5	0.0002194	0.0017204	11.108	1.896	9.642	13.249	7.618	0.725	6.968	8.399
13044	ENSG00000110700	RPS13	-1.1	0.0165204	0.0544562	508.153	18.565	489.199	526.302	553.723	9.391	543.702	562.321
13045	ENSG00000228929	RPS13P2	-1.1	0.0882897	0.1952208	238.711	5.800	232.427	243.857	261.775	13.993	247.774	275.760
13046	ENSG00000164587	RPS14	-1.1	0.0024031	0.011767	404.726	3.992	401.375	409.142	448.173	9.322	437.582	455.137
13047	ENSG00000134419	RPS15A	-1.1	0.0031067	0.014507	76.656	1.907	75.232	78.822	85.135	1.727	83.158	86.346
13048	ENSG00000231500	RPS18	-1.1	0.0070781	0.0277562	1373.022	12.428	1358.899	1382.290	1511.356	36.911	1480.843	1552.383
13049	ENSG00000220848	RPS18P9	-1.3	0.0263009	0.077903	21.264	3.271	18.785	24.971	27.287	1.135	26.303	28.528
13051	ENSG00000140988	RPS2	-1	0.0610476	0.1476262	1079.411	17.965	1066.546	1099.936	1158.033	65.642	1091.050	1222.247
13053	ENSG00000233971	RPS20P10	-1.5	0.013442	0.0462552	14.800	1.299	13.323	15.767	22.719	5.398	17.150	27.929
13056	ENSG00000223803	RPS20P14	-1.1	0.1119318	0.2312327	130.192	11.805	116.620	138.077	146.054	5.373	139.912	149.888
13057	ENSG00000239218	RPS20P22	-1.3	0.0298514	0.0859219	7.604	0.405	7.348	8.071	9.728	1.499	8.484	11.392
13059	ENSG00000171858	RPS21	-1.1	0.0073143	0.0284645	593.357	19.015	579.920	615.114	655.934	14.628	640.630	669.776
13060	ENSG00000186468	RPS23	1	0.094986	0.2059876	502.674	4.758	497.192	505.737	493.401	10.704	486.119	505.690
13061	ENSG00000197728	RPS26	-1.1	0.0071933	0.0281165	29.202	1.809	27.628	31.178	34.221	0.414	33.752	34.536
13062	ENSG00000223416	RPS26P15	-1.2	0.058917	0.1436239	49.654	1.834	47.945	51.591	59.134	2.116	56.912	61.126
13063	ENSG00000212829	RPS26P3	-1.2	0.1099637	0.2283944	39.469	2.109	37.139	41.247	46.598	3.480	42.988	49.931
13064	ENSG00000234354	RPS26P47	-1.2	0.0210457	0.0656849	95.545	2.733	92.936	98.387	113.405	4.821	110.031	118.926
13065	ENSG00000177954	RPS27	-1.1	0.0577504	0.1416171	155.284	10.736	147.459	167.524	170.801	5.968	165.337	177.170
13067	ENSG00000143947	RPS27A	-1.1	0.0218013	0.0674947	272.832	12.388	262.969	286.736	296.215	8.089	287.467	303.425
13069	ENSG00000185088	RPS27L	1.1	0.0447659	0.1166425	43.924	1.947	42.294	46.079	42.014	2.142	40.355	44.432
13070	ENSG00000233927	RPS28	-1.1	0.0839547	0.188364	43.267	1.156	41.969	44.185	47.920	2.849	44.721	50.185
13072	ENSG00000227097	RPS28P7	-1.1	0.0677448	0.1598226	2663.827	35.326	2625.475	2695.034	2868.231	93.509	2796.270	2973.927
13074	ENSG00000213741	RPS29	-1.2	0.0218092	0.0674947	55.889	1.747	53.875	56.985	65.762	6.364	60.936	72.974
13075	ENSG00000196183	RPS2P4	-1.2	0.0382105	0.1031975	19.004	1.561	17.619	20.696	23.473	4.060	19.862	27.869
13076	ENSG00000216866	RPS2P55	-1.1	0.1203853	0.2435289	421.142	16.910	404.343	438.160	452.325	1.886	450.432	454.204
13078	ENSG00000145425	RPS3A	-1.1	0.0566095	0.1394892	416.836	19.859	402.680	439.537	449.721	12.604	440.075	463.983
13079	ENSG00000234335	RPS4XP11	1.2	0.0920539	0.2014372	20.800	4.889	15.277	24.576	17.850	2.071	15.601	19.680
13081	ENSG00000137154	RPS6	1.1	0.0022075	0.0109585	1347.735	17.675	1336.201	1368.084	1273.889	56.576	1230.222	1337.803
13082	ENSG00000071242	RPS6KA2	1.2	0.0017757	0.0092589	9.098	0.183	8.892	9.242	7.741	0.561	7.367	8.386
13085	ENSG00000177189	RPS6KA3	1.1	0.0258608	0.0769365	21.247	0.796	20.530	22.104	19.913	0.963	19.008	20.925
13086	ENSG00000100784	RPS6KA5	-1.2	0.0244932	0.0737632	0.865	0.064	0.817	0.938	1.056	0.141	0.952	1.216
13090	ENSG00000072133	RPS6KA6	1.1	0.0495272	0.1261146	10.540	0.353	10.183	10.888	9.862	0.334	9.498	10.154
13091	ENSG00000136643	RPS6KC1	-1.1	0.061263	0.147999	15.313	1.383	14.297	16.887	16.957	0.493	16.508	17.484
13095	ENSG00000198208	RPS6KL1	1.5	5.91E-06	8.551E-05	5.174	0.556	4.555	5.633	3.654	0.573	3.142	4.272

	A	B	C	D	E	F	G	H	I	J	K	L	M
13096	ENSG00000170889	RPS9	-1.1	0.0003102	0.0022701	331.642	7.063	325.939	339.542	375.406	14.508	360.920	389.936
13101	ENSG00000225178	RPSAP58	-1.1	0.0083736	0.0316616	1846.607	44.677	1798.442	1886.695	2036.698	85.122	1947.640	2117.244
13106	ENSG00000141564	RPTOR	-1.1	0.1066458	0.2233685	7.572	0.253	7.359	7.852	8.335	0.530	7.724	8.679
13107	ENSG00000007376	RPUSD1	-1.2	0.011636	0.0412233	14.065	1.079	12.859	14.939	16.652	0.760	15.791	17.227
13108	ENSG00000165526	RPUSD4	-1.3	3.03E-08	9.723E-07	25.258	1.322	24.046	26.668	33.897	1.426	32.368	35.192
13109	ENSG00000155876	RRAGA	-1.1	0.0607573	0.1470926	49.552	2.688	47.068	52.405	54.946	3.522	51.253	58.268
13110	ENSG00000083750	RRAGB	1.5	2.095E-06	3.533E-05	9.801	0.391	9.513	10.247	6.651	0.151	6.497	6.798
13112	ENSG00000025039	RRAGD	1.5	4.62E-11	3.284E-09	22.325	1.526	20.581	23.411	15.215	0.456	14.850	15.726
13115	ENSG00000133818	RRAS2	1.1	0.0088908	0.0331356	151.433	3.348	149.023	155.256	143.756	6.663	136.163	148.626
13117	ENSG00000125844	RRBP1	-1.1	0.0071432	0.0279661	58.270	1.631	57.212	60.149	64.672	1.942	62.523	66.302
13118	ENSG00000257122	RRN3P3	1.3	0.0908493	0.1998004	1.372	0.202	1.140	1.514	1.055	0.098	0.942	1.115
13121	ENSG00000189306	RRP7A	-1.1	0.0104817	0.0378877	24.014	0.475	23.658	24.554	27.367	1.423	26.080	28.895
13122	ENSG00000136444	RSAD1	-1.2	0.0007444	0.004588	23.700	0.428	23.248	24.097	27.925	1.484	26.561	29.506
13123	ENSG00000081019	RSBN1	-1.1	0.0031857	0.0147931	12.858	0.622	12.388	13.563	15.088	1.199	13.961	16.349
13128	ENSG00000048649	RSF1	-1.1	0.0767152	0.1755183	18.395	0.187	18.263	18.609	19.900	0.296	19.703	20.240
13130	ENSG00000171490	RSL1D1	-1	0.0976426	0.2096255	80.549	1.965	78.718	82.626	86.361	4.986	83.354	92.117
13131	ENSG00000137876	RSL24D1	1.1	0.0028403	0.0134623	152.332	4.030	149.888	156.984	142.653	3.357	138.983	145.566
13134	ENSG00000130363	RSPH3	1.3	0.0011316	0.0064918	4.063	0.063	3.997	4.121	3.148	0.071	3.078	3.219
13138	ENSG00000148484	RSU1	1.2	9.083E-07	1.768E-05	40.467	1.506	39.024	42.028	33.725	1.094	32.616	34.803
13140	ENSG00000100220	RTCB	-1.1	0.0221509	0.0681905	120.323	1.400	118.897	121.695	131.689	6.478	126.589	138.978
13142	ENSG00000182010	RTKN2	-1.2	2.55E-05	0.000292	14.115	1.195	13.400	15.494	17.744	0.889	16.769	18.510
13143	ENSG00000242732	RTL5	2.3	1.193E-06	2.199E-05	2.323	0.565	1.902	2.966	1.014	0.233	0.747	1.178
13144	ENSG00000243978	RTL9	1.7	0.0734438	0.1699021	0.295	0.055	0.240	0.350	0.174	0.053	0.113	0.211
13146	ENSG00000115310	RTN4	1.1	4.363E-05	0.0004578	132.468	3.057	128.938	134.264	120.441	4.885	115.446	125.209
13147	ENSG00000040608	RTN4R	1.3	0.0003553	0.0025334	16.873	1.449	15.255	18.053	13.555	1.827	11.814	15.457
13155	ENSG00000102445	RUBCNL	1.2	0.0204769	0.0642535	3.599	0.159	3.434	3.751	3.007	0.584	2.442	3.608
13156	ENSG00000176783	RUFY1	1.3	2.588E-06	4.259E-05	16.562	0.713	15.929	17.335	13.279	0.195	13.157	13.504
13157	ENSG00000018189	RUFY3	1.1	0.0089486	0.0332778	17.905	0.132	17.776	18.039	16.553	0.400	16.124	16.916
13158	ENSG00000105784	RUNDC3B	1.5	0.1175407	0.2393747	0.483	0.129	0.345	0.601	0.323	0.165	0.142	0.465
13160	ENSG00000079102	RUNX1T1	1.2	0.0005446	0.0035852	3.673	0.413	3.401	4.148	3.001	0.212	2.762	3.167
13164	ENSG00000160753	RUSC1	-1.1	0.0069583	0.0273942	16.377	0.768	15.490	16.828	18.938	1.044	18.328	20.144
13165	ENSG00000122481	RWDD3	1.2	0.1140191	0.2340298	6.949	0.363	6.540	7.230	5.990	1.543	4.210	6.944
13167	ENSG00000186350	RXRA	-1.1	0.0098572	0.0360231	8.534	0.313	8.219	8.845	9.834	0.943	8.920	10.804
13168	ENSG00000204231	RXRB	-1.3	0.000103	0.0009254	13.466	0.371	13.145	13.872	17.445	0.752	16.987	18.313
13169	ENSG00000163785	RYK	1.2	6.581E-07	1.349E-05	35.266	2.171	33.687	37.741	29.856	0.666	29.115	30.403
13170	ENSG00000196218	RYR1	-1.3	1.141E-06	2.124E-05	4.141	0.221	4.013	4.396	5.550	0.383	5.194	5.956
13176	ENSG00000197747	S100A10	1.2	1.781E-05	0.000215	79.724	7.061	74.444	87.745	67.105	1.861	65.760	69.229
13179	ENSG00000189171	S100A13	-1.2	0.00344	0.0157294	19.122	1.887	17.467	21.178	23.628	2.044	22.302	25.982
13180	ENSG00000196154	S100A4	-1.1	0.049725	0.1264659	34.772	3.694	32.575	39.036	40.419	2.790	37.773	43.334
13181	ENSG00000166788	SAAL1	1.1	0.0171898	0.0560284	44.621	2.264	43.071	47.219	41.273	2.864	39.482	44.576
13183	ENSG00000211456	SACM1L	-1.3	3.93E-09	1.653E-07	38.165	0.408	37.719	38.518	49.783	1.680	47.992	51.324
13184	ENSG00000142230	SAE1	1.1	3.938E-06	6.038E-05	249.134	5.798	242.727	254.020	223.023	5.069	217.602	227.645
13185	ENSG00000160633	SAFB	-1.5	6.60E-16	1.53E-13	42.410	1.612	40.778	44.001	63.950	2.257	61.349	65.393

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13186	ENSG00000130254	SAFB2	-1.3	4.477E-08	1.36E-06	21.029	1.429	19.874	22.628	28.144	2.013	26.058	30.076
13187	ENSG00000165821	SALL2	-1.2	0.0012617	0.0070824	242.403	24.975	214.033	261.070	286.280	5.733	280.346	291.788
13190	ENSG00000256463	SALL3	-1.2	0.0006735	0.0042489	9.355	1.192	8.044	10.373	11.529	0.443	11.033	11.883
13194	ENSG00000101115	SALL4	-1.1	9.229E-05	0.0008473	79.060	6.439	72.236	85.030	92.824	3.898	88.359	95.541
13195	ENSG00000177570	SAMD12	1.1	0.0400335	0.1070662	4.837	0.255	4.543	4.997	4.389	0.225	4.129	4.537
13196	ENSG00000167100	SAMD14	-1.2	0.0637753	0.1526293	2.900	0.146	2.736	3.015	3.470	0.204	3.235	3.608
13201	ENSG00000164483	SAMD3	-1.4	0.0848986	0.1897246	0.329	0.066	0.257	0.385	0.474	0.174	0.363	0.675
13203	ENSG0000020577	SAMD4A	1.9	1.28E-14	2.34E-12	6.255	0.301	5.986	6.580	3.354	0.041	3.318	3.399
13205	ENSG00000179134	SAMD4B	-1.2	2.858E-07	6.722E-06	29.697	0.272	29.430	29.975	37.238	1.881	35.466	39.211
13210	ENSG00000156671	SAMD8	-1.1	0.0268587	0.079138	21.729	0.659	20.975	22.199	24.203	1.792	22.841	26.233
13211	ENSG00000101347	SAMHD1	-1.3	1.086E-07	2.923E-06	28.755	2.309	26.317	30.909	37.806	1.170	36.736	39.056
13213	ENSG00000161526	SAP30BP	1.1	0.0826255	0.1860779	16.387	0.558	15.742	16.722	15.703	0.584	15.118	16.287
13214	ENSG00000186193	SAPCD2	-1.1	0.0090522	0.033582	26.988	1.270	25.938	28.399	31.124	3.077	28.029	34.182
13216	ENSG00000152700	SAR1B	1.2	5.718E-05	0.0005719	8.178	0.377	7.746	8.444	6.726	0.786	6.177	7.627
13217	ENSG00000123453	SARDH	-1.2	0.0146637	0.0495577	5.929	0.411	5.500	6.319	7.106	0.560	6.584	7.698
13219	ENSG00000004139	SARM1	1.2	0.1046081	0.22032	1.241	0.007	1.234	1.246	1.090	0.140	0.948	1.227
13220	ENSG00000031698	SARS	1.3	3.41E-12	3.24E-10	121.639	2.015	120.163	123.934	93.941	1.198	92.580	94.834
13223	ENSG00000175467	SART1	-1.1	0.1117309	0.230987	35.601	1.825	33.526	36.954	38.574	1.125	37.828	39.869
13224	ENSG00000075856	SART3	-1.1	0.0012314	0.0069402	44.886	0.459	44.450	45.366	50.593	1.153	49.702	51.895
13228	ENSG00000111961	SASH1	-1.3	4.788E-07	1.044E-05	11.405	0.177	11.258	11.601	14.633	0.919	13.714	15.551
13230	ENSG00000130066	SAT1	-1.1	0.0009747	0.00574	84.336	3.398	81.204	87.948	96.703	3.680	93.938	100.880
13231	ENSG00000141504	SAT2	1.2	5.08E-05	0.0005189	73.920	3.474	71.577	77.911	61.597	5.089	55.968	65.872
13233	ENSG00000182568	SATB1	-1.1	0.0845336	0.189216	12.866	0.365	12.464	13.177	13.951	0.465	13.458	14.381
13234	ENSG00000126524	SBDS	1.1	0.1101868	0.2287323	56.555	0.886	55.740	57.498	53.887	4.058	50.071	58.150
13237	ENSG00000225648	SBDSP1	1.2	0.0103383	0.0374734	19.308	0.681	18.530	19.794	16.085	2.228	13.633	17.987
13240	ENSG00000100241	SBF1	-1.1	0.0015924	0.0084962	29.393	0.963	28.326	30.198	33.593	1.865	32.313	35.733
13241	ENSG00000246273	SBF2-AS1	1.3	0.0109563	0.0392344	3.391	0.519	2.970	3.971	2.627	0.364	2.304	3.021
13243	ENSG00000188322	SBK1	-1.1	0.0783069	0.1784912	40.832	1.523	39.100	41.962	45.082	5.209	40.719	50.848
13246	ENSG00000187550	SBK2	-1.6	0.0037565	0.0168612	3.527	0.407	3.110	3.923	5.852	0.768	4.978	6.419
13247	ENSG00000139697	SBNO1	-1.2	1.778E-06	3.063E-05	17.513	0.362	17.291	17.931	21.411	1.092	20.215	22.355
13248	ENSG00000064932	SBNO2	-1.1	0.035448	0.097784	13.843	0.684	13.109	14.461	15.710	0.932	14.719	16.570
13249	ENSG00000164764	SBSPON	1.4	0.1091926	0.2272395	0.811	0.185	0.646	1.011	0.581	0.194	0.393	0.780
13251	ENSG00000109929	SC5D	1.4	2.208E-06	3.679E-05	71.611	6.811	65.392	78.889	50.601	5.130	46.651	56.399
13252	ENSG00000156304	SCAF4	-1.1	0.0009488	0.0056051	31.971	0.541	31.350	32.342	36.806	1.284	35.687	38.208
13254	ENSG00000213079	SCAF8	-1.1	0.0191784	0.0609706	37.173	1.868	35.207	38.925	41.078	0.184	40.943	41.288
13255	ENSG00000173611	SCAI	-1.1	0.072984	0.1692088	8.920	0.052	8.872	8.975	9.826	0.674	9.248	10.567
13256	ENSG00000140497	SCAMP2	1.1	0.0856621	0.1909838	18.891	0.418	18.426	19.236	18.003	0.274	17.757	18.299
13257	ENSG00000227500	SCAMP4	1.2	0.008945	0.0332777	13.438	0.907	12.911	14.485	11.897	0.553	11.281	12.349
13258	ENSG00000198794	SCAMP5	1.2	0.000149	0.0012528	30.595	1.163	29.259	31.379	26.773	1.300	25.377	27.949
13260	ENSG00000171222	SCAND1	-1.2	0.0081614	0.0310889	22.307	1.984	20.601	24.484	27.295	3.331	24.431	30.951
13261	ENSG00000114650	SCAP	-1.1	0.0001852	0.001502	36.354	1.660	34.970	38.195	42.714	2.669	41.160	45.795
13262	ENSG00000168077	SCARA3	1.2	0.0048993	0.0208159	9.239	0.964	8.607	10.349	7.818	0.403	7.369	8.148
13263	ENSG00000168079	SCARA5	2	0.0306501	0.0877131	0.334	0.116	0.200	0.403	0.167	0.015	0.151	0.176

	A	B	C	D	E	F	G	H	I	J	K	L	M
13264	ENSG00000073060	SCARB1	1.2	0.0001524	0.0012739	19.529	0.299	19.353	19.874	17.286	0.765	16.622	18.123
13265	ENSG00000138760	SCARB2	1.1	0.0142459	0.0484888	21.448	0.446	21.153	21.961	20.357	1.056	19.287	21.399
13266	ENSG00000074660	SCARF1	1.3	0.1230005	0.2475083	1.005	0.046	0.953	1.042	0.814	0.079	0.725	0.877
13268	ENSG00000244486	SCARF2	-1.2	0.0569398	0.1400325	2.718	0.391	2.363	3.138	3.429	0.517	3.114	4.026
13269	ENSG00000252481	SCARNA13	-1.9	0.0028171	0.0134027	6.738	1.719	5.372	8.668	13.289	1.524	11.530	14.218
13273	ENSG00000143653	SCCPDH	1.2	0.0001359	0.0011589	37.967	2.808	36.130	41.199	32.006	2.235	30.404	34.559
13274	ENSG00000099194	SCD	1.8	2.63E-25	1.11E-21	1034.501	25.446	1013.118	1062.645	591.373	13.521	581.194	606.715
13275	ENSG00000145284	SCD5	-1.6	0.002397	0.0117405	0.921	0.125	0.791	1.041	1.524	0.154	1.348	1.633
13276	ENSG00000226549	SCDP1	2	3.024E-08	9.723E-07	13.948	1.074	12.747	14.816	7.292	0.285	6.968	7.499
13278	ENSG00000171951	SCG2	3.1	2.87E-10	1.668E-08	3.867	0.270	3.562	4.073	1.256	0.300	0.914	1.473
13280	ENSG00000104112	SCG3	1.1	0.0023229	0.0114476	55.289	0.848	54.372	56.044	50.592	2.319	47.927	52.141
13283	ENSG00000166922	SCG5	1.2	0.0010103	0.0059228	32.563	2.560	29.852	34.940	27.767	2.077	25.459	29.485
13284	ENSG00000164265	SCGB3A2	-1.1	0.038203	0.1031975	54.538	1.446	53.412	56.168	61.945	3.782	59.625	66.309
13289	ENSG00000006747	SCIN	1.8	0.0253281	0.0757137	0.349	0.135	0.241	0.500	0.204	0.139	0.067	0.345
13290	ENSG00000047634	SCML1	1.6	3.996E-06	6.104E-05	3.423	0.309	3.171	3.767	2.165	0.122	2.034	2.276
13291	ENSG00000007314	SCN4A	1.3	0.0067795	0.0267839	4.212	0.967	3.117	4.947	3.351	0.372	2.996	3.738
13294	ENSG00000177098	SCN4B	-1.3	0.0182061	0.0586401	2.054	0.309	1.830	2.406	2.659	0.105	2.541	2.741
13295	ENSG00000163156	SCNM1	1.1	0.080572	0.1822961	10.585	0.329	10.310	10.950	9.682	0.858	8.814	10.529
13297	ENSG00000111319	SCNN1A	-1.1	0.0748899	0.1723137	52.219	2.337	49.575	54.006	56.279	1.228	55.070	57.525
13298	ENSG00000162572	SCNN1D	-1.4	0.0028259	0.0134277	2.294	0.404	1.909	2.714	3.329	0.226	3.070	3.483
13299	ENSG00000133028	SCO1	-1.1	0.0017424	0.0091463	25.576	1.349	24.219	26.917	28.966	0.195	28.810	29.185
13304	ENSG00000116171	SCP2	1.1	0.0833814	0.1874084	20.700	0.918	19.782	21.617	19.811	1.019	18.887	20.903
13305	ENSG00000121064	SCPEP1	1.1	0.0100193	0.0365127	29.522	0.625	28.962	30.196	27.180	0.275	26.912	27.461
13307	ENSG00000180900	SCRIB	-1.1	0.0505867	0.1281757	44.613	1.217	43.353	45.781	48.907	4.272	45.672	53.750
13309	ENSG00000136193	SCRN1	1.2	2.198E-09	9.941E-08	100.993	0.154	100.823	101.124	84.638	2.237	82.284	86.736
13310	ENSG00000159307	SCUBE1	-1.6	6.835E-05	0.0006621	0.968	0.237	0.730	1.205	1.540	0.194	1.320	1.688
13311	ENSG00000146197	SCUBE3	-1.6	0.0066763	0.026505	0.732	0.205	0.522	0.932	1.159	0.172	1.021	1.351
13312	ENSG00000142186	SCYL1	-1.1	0.036665	0.1002936	32.302	1.892	30.170	33.784	35.743	0.579	35.319	36.402
13315	ENSG00000136021	SCYL2	1.1	0.0002761	0.0020714	31.566	0.521	31.088	32.120	28.415	0.820	27.785	29.342
13316	ENSG00000000457	SCYL3	-1.2	0.0321318	0.0910905	4.004	0.452	3.499	4.372	4.747	0.078	4.658	4.806
13319	ENSG00000198301	SDAD1	1.1	0.0002527	0.001927	71.098	1.829	69.009	72.406	64.284	1.486	63.174	65.972
13320	ENSG00000115884	SDC1	-1.1	0.0359887	0.0988963	28.422	1.884	26.942	30.543	31.787	2.089	30.453	34.195
13324	ENSG00000169439	SDC2	1.1	0.0071958	0.02812	83.669	5.326	79.321	89.609	77.596	6.231	71.042	83.443
13325	ENSG00000124145	SDC4	1.1	0.040376	0.1077606	104.827	4.468	101.538	109.914	100.086	5.466	93.886	104.206
13328	ENSG00000137575	SDCBP	1.3	1.54E-10	9.648E-09	108.579	3.348	105.518	112.155	83.013	1.546	81.241	84.084
13330	ENSG00000165689	SDCCAG3	-1.1	0.0133126	0.0459127	52.450	3.853	49.419	56.786	59.142	3.172	55.889	62.225
13332	ENSG00000132581	SDF2	-1.2	0.0021184	0.0106062	17.263	0.238	17.026	17.503	20.687	0.766	19.809	21.216
13333	ENSG00000128228	SDF2L1	-1.2	0.0473567	0.121835	20.521	3.657	17.217	24.451	24.952	4.910	20.066	29.885
13334	ENSG00000073578	SDHA	-1.1	0.0009373	0.0055468	30.537	1.123	29.339	31.565	34.901	1.149	34.052	36.209
13338	ENSG00000205138	SDHAF1	-1.3	0.0056371	0.0232527	12.283	2.237	10.537	14.804	16.827	3.701	13.069	20.469
13340	ENSG00000167985	SDHAF2	-1.6	5.304E-05	0.0005365	4.120	0.911	3.439	5.155	6.670	0.540	6.151	7.229
13342	ENSG00000185485	SDHAP1	-1.1	0.0426003	0.1121687	11.772	0.872	11.016	12.727	13.554	0.728	12.841	14.297

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13343	ENSG00000227073	SDHDP2	-1.4	0.0424218	0.1118529	9.252	1.525	8.010	10.954	12.909	1.008	12.247	14.069
13346	ENSG00000146555	SDK1	-1.2	0.0123938	0.0432914	3.001	0.211	2.779	3.199	3.581	0.136	3.438	3.708
13348	ENSG00000100445	SDR39U1	-1.1	0.0249604	0.0748768	22.708	1.391	21.630	24.278	26.018	1.294	25.257	27.512
13349	ENSG00000184860	SDR42E1	-1.2	0.0361289	0.0991801	1.904	0.188	1.703	2.076	2.275	0.087	2.190	2.364
13353	ENSG00000139410	SDSL	1.7	0.0166329	0.0547089	1.515	0.202	1.333	1.732	0.930	0.348	0.706	1.332
13357	ENSG00000157020	SEC13	-1.1	0.0003909	0.0027455	41.772	1.538	40.205	43.278	48.109	2.070	46.710	50.486
13359	ENSG00000121542	SEC22A	1.2	0.0762313	0.1746072	4.774	0.649	4.059	5.327	4.170	0.143	4.050	4.328
13361	ENSG00000093183	SEC22C	-1.1	0.0138597	0.0473842	14.226	0.432	13.786	14.649	16.029	0.470	15.589	16.524
13366	ENSG00000107651	SEC23IP	-1.1	0.0001666	0.0013754	32.281	1.155	31.267	33.538	37.675	0.752	36.915	38.418
13367	ENSG00000138802	SEC24B	-1.1	0.0455086	0.1182133	28.979	0.920	28.025	29.860	32.070	2.714	29.161	34.535
13372	ENSG00000176986	SEC24C	-1.1	0.0791011	0.1799684	52.359	1.715	50.837	54.216	56.538	2.331	54.056	58.683
13373	ENSG00000138674	SEC31A	-1.1	0.004543	0.0196414	37.922	0.453	37.609	38.441	42.203	1.482	40.502	43.214
13375	ENSG00000058262	SEC61A1	1	0.1211783	0.2446566	108.365	1.147	107.441	109.649	105.911	5.972	99.488	111.297
13377	ENSG00000065665	SEC61A2	-1.2	0.0044606	0.0193541	14.598	0.715	13.772	15.015	17.382	1.406	15.942	18.751
13379	ENSG00000132432	SEC61G	-1.2	9.778E-06	0.0001311	77.386	0.849	76.517	78.213	95.350	2.999	92.039	97.884
13380	ENSG00000138593	SECISBP2L	1.1	0.111016	0.2299588	26.487	0.550	26.050	27.105	25.640	1.030	24.649	26.705
13383	ENSG00000085415	SEH1L	1.1	0.1077193	0.2251708	18.914	0.219	18.665	19.076	18.348	0.989	17.395	19.369
13385	ENSG00000071537	SEL1L	1.1	0.0390869	0.1050428	18.804	0.756	17.970	19.446	17.878	0.548	17.245	18.209
13387	ENSG00000091490	SEL1L3	1.5	2.65E-16	6.89E-14	56.494	3.035	53.605	59.656	37.376	1.785	35.499	39.053
13388	ENSG00000143416	SELENBP1	-1.1	0.0527347	0.1323887	10.951	0.830	10.239	11.863	12.559	0.921	11.526	13.296
13390	ENSG00000211450	SELENOH	-1.1	0.0151942	0.0509576	58.249	2.489	55.663	60.628	65.386	2.367	63.035	67.768
13391	ENSG00000138018	SELENOI	1.2	1.378E-05	0.0001751	44.175	2.667	41.358	46.661	38.605	1.780	36.664	40.161
13395	ENSG00000113811	SELENOK	1.2	0.0134762	0.0463353	30.017	2.308	27.664	32.278	26.608	0.585	26.016	27.186
13399	ENSG00000250722	SELENOP	-1.4	8.293E-06	0.0001136	4.479	0.080	4.416	4.568	6.530	0.743	5.751	7.232
13403	ENSG00000198843	SELENOT	1.1	0.098662	0.2112777	40.521	1.758	38.841	42.347	38.824	2.047	37.615	41.187
13406	ENSG00000186838	SELENOV	-1.2	0.0397805	0.1064737	11.157	1.227	10.327	12.566	13.400	0.427	12.919	13.733
13408	ENSG00000075213	SEMA3A	1.1	0.0367918	0.1004778	7.633	0.583	7.059	8.224	7.078	0.216	6.843	7.266
13409	ENSG00000012171	SEMA3B	1.2	0.0524296	0.1318183	3.159	0.118	3.022	3.229	2.743	0.137	2.662	2.901
13410	ENSG00000075223	SEMA3C	-2.1	1.748E-05	0.0002119	0.543	0.062	0.495	0.613	1.182	0.211	0.948	1.358
13412	ENSG00000153993	SEMA3D	1.6	0.0002205	0.0017278	1.457	0.267	1.209	1.740	0.915	0.153	0.776	1.079
13415	ENSG00000170381	SEMA3E	1.6	0.0300434	0.086357	0.446	0.067	0.372	0.503	0.293	0.048	0.253	0.346
13418	ENSG00000001617	SEMA3F	-1.5	5.50E-12	4.948E-10	19.694	0.089	19.610	19.789	29.475	0.846	28.737	30.398
13421	ENSG00000196189	SEMA4A	2	1.98E-13	2.52E-11	12.393	1.143	11.081	13.169	6.210	0.463	5.675	6.488
13422	ENSG00000185033	SEMA4B	-1.2	0.0001696	0.001395	13.164	0.238	12.927	13.403	16.253	1.869	14.563	18.261
13429	ENSG00000168758	SEMA4C	-1.1	0.0006312	0.0040485	37.911	0.550	37.289	38.333	43.834	1.558	42.447	45.520
13431	ENSG00000187764	SEMA4D	-1.2	8.702E-07	1.701E-05	10.985	0.544	10.395	11.467	13.898	0.769	13.024	14.469
13432	ENSG00000095539	SEMA4G	-1.4	7.41E-05	0.0007081	3.638	0.143	3.485	3.769	5.136	0.360	4.819	5.528
13433	ENSG00000112902	SEMA5A	1.1	0.0311661	0.088904	6.664	0.257	6.367	6.823	6.161	0.333	5.777	6.361
13434	ENSG00000082684	SEMA5B	-1.1	0.0113608	0.0403752	13.393	0.983	12.288	14.171	15.653	1.244	14.452	16.937
13440	ENSG00000092421	SEMA6A	1.4	5.37E-15	1.07E-12	125.082	5.663	119.062	130.304	91.885	2.947	89.734	95.244
13443	ENSG00000167680	SEMA6B	-1.2	0.0032756	0.0151158	30.510	2.038	28.177	31.945	35.947	3.124	33.589	39.490
13445	ENSG00000143434	SEMA6C	-1.3	0.0003533	0.0025258	7.363	0.620	6.994	8.079	9.538	1.469	8.217	11.119

	A	B	C	D	E	F	G	H	I	J	K	L	M
13453	ENSG00000137872	SEMA6D	-1.5	0.0041302	0.0182385	0.710	0.107	0.621	0.829	1.102	0.133	0.956	1.216
13454	ENSG00000138623	SEMA7A	-1.1	0.0965629	0.2080205	8.848	0.651	8.326	9.577	9.938	0.451	9.479	10.381
13455	ENSG00000124233	SEMG1	1.5	0.0002866	0.0021341	10.636	1.995	8.445	12.348	7.225	0.588	6.634	7.811
13456	ENSG00000163904	SENP2	-1.1	0.0423792	0.1117666	27.019	0.534	26.423	27.453	29.567	0.540	29.146	30.176
13461	ENSG00000112701	SENP6	1.1	0.0080957	0.0308716	34.462	0.413	34.211	34.939	32.606	0.730	32.077	33.439
13463	ENSG00000086475	SEPHS1	1.1	0.0059135	0.0241233	354.950	9.341	347.000	365.238	339.252	5.947	332.465	343.551
13466	ENSG00000230146	SEPHS1P4	-1.1	0.0558988	0.1382996	34.008	0.206	33.794	34.206	38.416	2.033	36.258	40.297
13472	ENSG00000179918	SEPHS2	1.1	0.0092684	0.0342113	57.756	3.883	53.455	61.003	53.404	0.328	53.056	53.707
13473	ENSG00000186522	SEPT10	1.1	0.0008101	0.0049197	82.272	1.583	80.744	83.906	76.029	1.888	73.984	77.707
13474	ENSG00000138758	SEPT11	1.3	1.95E-11	1.534E-09	55.345	2.090	52.975	56.925	43.474	0.837	42.779	44.403
13478	ENSG00000168385	SEPT2	1.1	0.0001306	0.0011244	177.813	3.629	174.247	181.501	164.940	1.084	163.687	165.575
13485	ENSG00000100167	SEPT3	-1.1	0.0163561	0.0540083	24.913	1.174	23.832	26.162	28.102	2.007	26.888	30.419
13488	ENSG00000184702	SEPT5	1.4	3.341E-05	0.0003648	4.952	0.299	4.644	5.240	3.619	0.148	3.493	3.782
13489	ENSG00000125354	SEPT6	-1.2	0.0041325	0.0182442	8.395	0.638	8.015	9.132	10.063	0.638	9.326	10.444
13490	ENSG00000214765	SEPT7P2	1.1	0.0981591	0.2104137	10.094	0.399	9.726	10.518	9.317	0.669	8.778	10.066
13493	ENSG00000184640	SEPT9	-1.1	0.0114013	0.0404765	55.597	1.390	54.028	56.676	62.237	5.305	56.560	67.070
13494	ENSG00000122335	SERAC1	1.1	0.0897421	0.1977712	8.619	0.428	8.311	9.108	8.134	0.385	7.876	8.577
13503	ENSG00000142864	SERBP1	-1	0.1195291	0.2421651	244.490	5.086	241.043	250.332	258.964	1.849	256.833	260.154
13505	ENSG00000213740	SERBP1P1	-1.1	0.0196633	0.0621502	157.595	6.542	150.245	162.782	174.799	3.965	171.915	179.320
13508	ENSG00000172058	SERF1A	1.1	0.0959422	0.2072434	10.489	0.678	9.706	10.899	9.645	0.670	8.916	10.235
13510	ENSG00000205572	SERF1B	1.1	0.0911463	0.2002802	11.237	0.566	10.596	11.670	10.329	0.526	9.791	10.842
13512	ENSG00000129158	SERGEF	1.1	0.0356808	0.0982209	9.362	0.531	8.811	9.872	8.316	0.787	7.860	9.224
13520	ENSG00000120742	SERP1	1.1	0.0010443	0.0060865	82.610	1.355	81.427	84.089	76.787	2.710	73.691	78.730
13527	ENSG00000021355	SERPINB1	-1.1	0.0198638	0.0626667	19.882	0.445	19.454	20.342	23.039	1.440	22.090	24.695
13529	ENSG00000206073	SERPINB4	3.5	1.437E-05	0.0001804	1.879	0.586	1.505	2.555	0.541	0.278	0.233	0.773
13532	ENSG00000124570	SERPINB6	1.2	0.0001365	0.001162	18.023	0.726	17.328	18.777	15.265	0.413	14.982	15.739
13534	ENSG00000166401	SERPINB8	3.2	0.0002736	0.0020575	0.370	0.143	0.252	0.529	0.119	0.047	0.080	0.171
13544	ENSG00000170542	SERPINB9	2.3	7.27E-23	1.03E-19	239.058	17.582	223.730	258.251	106.414	5.435	100.693	111.509
13547	ENSG00000106366	SERPINE1	12	3.41E-08	1.064E-06	40.054	7.294	33.814	48.073	3.420	0.380	2.991	3.714
13549	ENSG00000135919	SERPINE2	1.4	9.125E-05	0.0008401	28.510	4.748	24.917	33.893	20.216	0.923	19.266	21.109
13556	ENSG00000132386	SERPINF1	-1.2	0.0191012	0.0608052	12.407	1.172	11.113	13.398	14.685	0.876	14.065	15.687
13559	ENSG00000167711	SERPINF2	-1.3	0.109388	0.227534	1.830	0.290	1.510	2.075	2.371	0.427	2.117	2.864
13561	ENSG00000149257	SERPINH1	1.1	0.0003143	0.0022946	227.823	6.268	222.714	234.817	209.447	13.152	195.601	221.772
13570	ENSG00000163536	SERPINI1	-1.5	3.092E-06	4.905E-05	7.370	1.431	6.232	8.976	11.541	0.286	11.368	11.871
13571	ENSG00000197019	SERTAD1	1.5	2.275E-05	0.0002658	12.308	0.989	11.524	13.418	8.550	1.374	7.126	9.868
13574	ENSG00000179833	SERTAD2	-1.3	0.0008537	0.0051422	5.446	0.348	5.063	5.742	7.087	1.143	5.767	7.753
13582	ENSG00000167565	SERTAD3	1.2	0.0064864	0.0258676	15.670	1.100	14.844	16.919	13.232	0.469	12.904	13.769
13583	ENSG00000082497	SERTAD4	1.9	9.561E-10	4.701E-08	6.131	0.452	5.723	6.617	3.354	0.180	3.147	3.466
13589	ENSG00000203706	SERTAD4-AS1	1.7	0.0079283	0.0304209	4.327	1.396	2.943	5.735	2.652	0.544	2.025	2.992
13590	ENSG00000080546	SESN1	-1.1	0.0202978	0.0637981	43.572	4.965	39.870	49.215	51.264	5.455	46.187	57.030
13594	ENSG00000130766	SESN2	1.3	3.721E-06	5.764E-05	32.682	1.960	31.152	34.891	26.339	2.305	24.556	28.943
13596	ENSG00000149212	SESN3	-1.5	2.79E-13	3.42E-11	20.424	1.373	19.592	22.008	30.870	0.433	30.434	31.301

	A	B	C	D	E	F	G	H	I	J	K	L	M
13605	ENSG00000187231	SESTD1	1.2	0.0002031	0.0016151	10.384	0.105	10.317	10.505	9.079	0.272	8.771	9.288
13607	ENSG00000099381	SETD1A	-1.2	0.0007844	0.0047909	10.298	0.428	10.027	10.791	12.480	0.672	11.820	13.163
13616	ENSG00000185917	SETD4	1.6	1.403E-09	6.611E-08	9.107	0.565	8.456	9.470	5.980	0.431	5.729	6.478
13618	ENSG00000168137	SETD5	-1.2	5.149E-09	2.103E-07	77.803	1.317	76.309	78.791	95.230	1.194	94.016	96.404
13619	ENSG00000103037	SETD6	-1.1	0.0043817	0.0190849	12.222	0.308	11.870	12.440	14.337	0.788	13.737	15.230
13624	ENSG00000145391	SETD7	1.3	0.0001231	0.0010707	2.501	0.225	2.313	2.750	1.949	0.072	1.886	2.027
13627	ENSG00000279730	SETD8P1	1.3	0.0230402	0.0704283	9.087	0.145	8.931	9.217	7.278	0.886	6.515	8.250
13630	ENSG00000143379	SETDB1	-1.1	0.002337	0.0115097	18.431	1.945	16.507	20.395	21.546	0.927	20.517	22.314
13635	ENSG00000266648	SETP3	1.2	0.1051817	0.221096	9.701	1.441	8.169	11.031	8.023	0.364	7.673	8.400
13640	ENSG00000213526	SETP8	1.2	0.1223115	0.2464445	19.143	1.591	17.908	20.938	16.169	3.031	13.997	19.632
13644	ENSG00000107290	SETX	1.1	0.0928212	0.2025032	26.534	2.309	24.152	28.763	25.631	1.002	24.613	26.616
13648	ENSG00000099995	SF3A1	-1.2	4.753E-05	0.000491	45.683	3.092	42.178	48.022	54.442	2.710	51.996	57.355
13655	ENSG00000104897	SF3A2	-1.2	0.0001265	0.0010966	39.376	1.976	37.594	41.501	48.304	3.081	45.689	51.700
13656	ENSG00000115524	SF3B1	-1.1	2.486E-05	0.0002862	196.910	2.360	194.287	198.863	224.158	2.426	221.442	226.110
13657	ENSG00000087365	SF3B2	-1.1	0.0006273	0.0040249	65.910	2.538	63.655	68.659	74.394	0.765	73.638	75.168
13662	ENSG00000189091	SF3B3	-1.1	5.038E-06	7.481E-05	60.515	1.172	59.776	61.866	70.586	2.801	67.977	73.546
13670	ENSG00000143368	SF3B4	-1.1	0.000807	0.0049045	55.388	1.699	53.928	57.253	64.843	3.604	62.673	69.004
13673	ENSG00000163935	SFMBT1	1.3	0.0001114	0.0009847	10.273	0.440	9.963	10.776	8.382	0.245	8.126	8.615
13676	ENSG00000175793	SFN	1.9	1.551E-07	3.999E-06	11.449	1.121	10.290	12.528	5.984	0.495	5.436	6.398
13678	ENSG00000116560	SFPQ	-1.1	0.0014398	0.0078211	155.041	10.250	143.529	163.178	174.075	6.684	168.417	181.450
13679	ENSG00000156384	SFR1	-1.3	0.0020533	0.0103602	15.011	0.702	14.224	15.573	19.314	2.457	16.917	21.828
13689	ENSG00000104332	SFRP1	-1.1	0.0008344	0.0050434	457.582	22.421	431.708	471.302	515.114	30.850	479.909	537.426
13691	ENSG00000061936	SFSWAP	-1.2	8.977E-05	0.0008279	16.531	0.498	15.974	16.935	19.568	0.683	18.894	20.259
13697	ENSG00000213064	SFT2D2	1.5	2.05E-10	1.234E-08	8.247	0.491	7.697	8.644	5.686	0.214	5.450	5.868
13703	ENSG00000173349	SFT2D3	-1.1	0.0284481	0.0828443	15.241	1.059	14.508	16.455	17.443	0.564	16.798	17.838
13704	ENSG00000156398	SFXN2	1.2	0.016857	0.055274	3.413	0.234	3.143	3.549	2.885	0.421	2.410	3.209
13708	ENSG00000107819	SFXN3	1.3	0.0099067	0.0361726	2.238	0.239	1.962	2.393	1.696	0.129	1.621	1.844
13710	ENSG00000183605	SFXN4	1.2	0.013005	0.0450378	23.572	1.352	22.013	24.423	20.316	2.821	17.064	22.114
13711	ENSG00000163069	SGCB	1.2	0.0005072	0.0033974	29.604	1.620	28.609	31.473	26.077	1.139	24.863	27.122
13713	ENSG00000127990	SGCE	1.2	0.0132736	0.0458055	25.121	0.539	24.509	25.522	22.352	2.215	20.878	24.899
13714	ENSG00000118473	SGIP1	2.3	0.0011365	0.0065157	0.309	0.040	0.263	0.338	0.139	0.090	0.044	0.223
13718	ENSG00000118515	SGK1	-1.2	0.0093228	0.0343972	2.426	0.256	2.261	2.721	3.026	0.222	2.839	3.271
13719	ENSG00000104205	SGK3	1.4	0.0045789	0.019766	1.693	0.261	1.513	1.992	1.215	0.139	1.086	1.361
13722	ENSG00000164023	SGMS2	1.6	0.0051592	0.0216305	1.171	0.291	0.870	1.451	0.753	0.270	0.468	1.004
13724	ENSG00000163535	SGO2	-1.4	0.0034686	0.0158168	29.609	3.345	27.281	33.442	41.467	5.189	36.904	47.112
13727	ENSG00000166224	SGPL1	1.1	0.0003778	0.0026692	20.650	0.536	20.236	21.255	18.487	0.460	17.965	18.838
13735	ENSG00000126821	SGPP1	1.4	4.823E-07	1.048E-05	20.674	1.060	19.928	21.888	15.340	0.916	14.639	16.376
13736	ENSG00000167037	SGSM1	-1.1	0.069705	0.163376	3.244	0.513	2.676	3.673	3.788	0.079	3.742	3.879
13737	ENSG00000100359	SGSM3	-1.3	0.0076433	0.0295208	2.350	0.137	2.230	2.499	3.149	0.524	2.735	3.738
13748	ENSG00000197860	SGTB	1.1	0.0113487	0.0403406	12.486	1.196	11.327	13.716	11.154	0.731	10.483	11.933
13751	ENSG00000178188	SH2B1	-1.2	0.0001674	0.0013801	10.690	0.329	10.380	11.035	13.346	0.268	13.057	13.585
13752	ENSG00000111252	SH2B3	1.7	4.94E-16	1.19E-13	35.318	2.808	32.338	37.915	21.303	0.612	20.827	21.993
13754	ENSG00000125731	SH2D3A	1.3	0.0004478	0.0030541	7.264	0.548	6.824	7.878	5.891	0.045	5.839	5.923

	A	B	C	D	E	F	G	H	I	J	K	L	M
13756	ENSG00000104611	SH2D4A	1.3	0.0145375	0.0492533	3.952	0.255	3.669	4.165	3.190	0.470	2.696	3.632
13763	ENSG00000185437	SH3BGR	1.3	0.0003454	0.0024775	29.891	1.271	28.461	30.893	24.293	0.732	23.852	25.139
13768	ENSG00000198478	SH3BGRL2	1.1	0.109465	0.2276322	26.694	1.890	25.551	28.875	25.591	0.544	24.965	25.949
13769	ENSG00000087266	SH3BP2	-1.1	0.0948595	0.2057925	9.292	0.781	8.414	9.909	10.179	0.595	9.499	10.604
13775	ENSG00000175137	SH3BP5L	-1.1	0.0565403	0.1393567	16.104	0.588	15.425	16.444	17.797	0.287	17.513	18.087
13782	ENSG00000109686	SH3D19	1.2	1.579E-07	4.066E-06	39.696	0.045	39.662	39.747	33.433	1.253	32.228	34.728
13786	ENSG00000107295	SH3GL2	1.4	0.0002639	0.0019968	13.706	2.803	11.285	16.776	10.127	0.637	9.583	10.828
13787	ENSG00000140600	SH3GL3	1.1	0.0299001	0.086036	15.397	1.722	14.354	17.385	13.843	0.696	13.069	14.417
13790	ENSG00000147010	SH3KBP1	1.1	0.0974226	0.2093391	19.154	1.040	17.957	19.847	18.206	0.559	17.615	18.727
13798	ENSG00000107957	SH3PXD2A	-1.2	1.989E-07	4.934E-06	14.141	0.105	14.041	14.251	17.892	0.877	17.253	18.891
13799	ENSG00000174705	SH3PXD2B	1.1	0.0811194	0.1832718	46.901	1.320	45.405	47.901	45.390	2.942	42.377	48.256
13804	ENSG00000154447	SH3RF1	1.1	0.0658362	0.1563447	8.376	0.493	7.823	8.769	7.744	0.386	7.318	8.071
13806	ENSG00000035115	SH3YL1	1.1	0.0118118	0.0416801	8.075	0.276	7.767	8.300	7.224	0.665	6.696	7.970
13807	ENSG00000162105	SHANK2	-1.2	0.0003874	0.0027247	6.048	0.115	5.916	6.127	7.223	0.574	6.871	7.886
13809	ENSG00000251322	SHANK3	-1.2	0.004002	0.0177698	5.921	0.121	5.803	6.044	7.184	0.705	6.708	7.993
13813	ENSG00000179526	SHARPIN	-1.1	0.0490275	0.1252192	16.978	0.163	16.810	17.136	19.391	2.290	17.450	21.917
13814	ENSG00000160691	SHC1	1.1	0.0260818	0.0774168	131.805	2.521	129.572	134.539	126.507	7.971	121.033	135.651
13815	ENSG00000129946	SHC2	1.5	7.245E-05	0.0006946	5.355	0.059	5.293	5.410	3.579	0.833	2.626	4.165
13819	ENSG00000148082	SHC3	1.4	0.0017698	0.0092383	2.788	0.668	2.221	3.524	2.070	0.196	1.877	2.269
13820	ENSG00000171241	SHCBP1	-1.1	0.0364193	0.0997667	11.030	0.706	10.238	11.594	12.619	0.423	12.136	12.921
13823	ENSG00000105251	SHD	-1.5	0.0047625	0.0203817	2.390	0.283	2.153	2.703	3.550	0.867	2.818	4.507
13825	ENSG00000169291	SHE	1.4	0.0122403	0.0429325	1.065	0.213	0.822	1.218	0.769	0.057	0.704	0.811
13832	ENSG00000180730	SHISA2	-1.5	4.163E-05	0.0004406	6.873	0.803	6.199	7.762	10.708	2.443	8.519	13.343
13834	ENSG00000198892	SHISA4	1.4	0.0011052	0.0063841	11.510	0.745	10.655	12.015	8.300	1.060	7.471	9.495
13838	ENSG00000188803	SHISA6	1.5	0.0005689	0.0037177	1.807	0.191	1.610	1.992	1.244	0.065	1.174	1.302
13844	ENSG00000187902	SHISA7	-1.4	0.0897678	0.1977712	0.374	0.076	0.291	0.441	0.531	0.075	0.466	0.613
13846	ENSG00000176974	SHMT1	1.2	0.0005613	0.0036783	16.276	0.592	15.634	16.799	14.229	0.538	13.707	14.781
13859	ENSG00000182199	SHMT2	1.5	4.91E-17	1.54E-14	154.098	2.165	152.773	156.596	106.246	5.273	101.436	111.884
13864	ENSG00000108061	SHOC2	-1.1	0.0368354	0.1005182	24.023	0.393	23.617	24.402	26.801	1.180	25.948	28.147
13866	ENSG00000146414	SHPRH	1.1	0.0043665	0.0190434	12.504	0.348	12.198	12.883	11.635	0.105	11.528	11.737
13876	ENSG00000138771	SHROOM3	-1.1	0.0184686	0.0592264	15.542	0.180	15.338	15.681	17.256	1.032	16.094	18.066
13884	ENSG00000158352	SHROOM4	-1.1	0.0701123	0.1640777	2.546	0.142	2.422	2.701	2.946	0.339	2.724	3.337
13891	ENSG00000187164	SHTN1	1.4	5.10E-11	3.593E-09	14.753	0.619	14.054	15.229	10.402	0.322	10.051	10.685
13904	ENSG00000110013	SIAE	1.4	0.000651	0.0041437	1.965	0.164	1.776	2.068	1.386	0.323	1.153	1.755
13910	ENSG00000181788	SIAH2	1.4	6.897E-07	1.407E-05	18.168	0.060	18.104	18.223	13.277	1.597	12.308	15.120
13913	ENSG00000185187	SIGIRR	-1.2	0.0013049	0.0072498	15.623	0.957	14.664	16.578	19.112	0.263	18.951	19.416
13917	ENSG00000197046	SIGLEC15	-1.7	0.0062388	0.0251168	0.646	0.238	0.451	0.911	1.148	0.168	1.020	1.338
13920	ENSG00000142178	SIK1	1.4	0.0003283	0.0023706	4.037	0.573	3.495	4.636	2.963	0.058	2.903	3.020

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13923	ENSG00000105738	SIPA1L3	-1.1	0.0680412	0.1603628	8.031	0.250	7.743	8.188	9.006	0.890	8.475	10.033
13925	ENSG00000096717	SIRT1	-1.2	1.193E-08	4.341E-07	59.091	2.989	57.066	62.524	75.195	0.922	74.331	76.165
13937	ENSG00000068903	SIRT2	1.3	0.0033509	0.0153838	4.894	0.106	4.795	5.005	3.955	0.248	3.700	4.196
13938	ENSG00000089163	SIRT4	-1.3	0.057136	0.1404158	4.728	0.263	4.473	4.999	6.192	0.867	5.375	7.102
13943	ENSG00000124523	SIRT5	1.4	2.678E-06	4.36E-05	12.222	0.859	11.494	13.169	9.153	1.412	7.874	10.668
13950	ENSG00000077463	SIRT6	-1.3	0.0019616	0.0100172	7.314	0.926	6.415	8.264	9.614	0.611	9.162	10.309
13970	ENSG00000184990	SIVA1	-1.1	0.0300869	0.0864378	19.240	0.589	18.560	19.599	21.957	2.060	19.952	24.069
13978	ENSG00000154839	SKA1	1.1	0.0301743	0.0866742	22.437	0.578	21.834	22.987	20.645	0.373	20.305	21.045
13980	ENSG00000165480	SKA3	1.3	1.263E-08	4.545E-07	51.206	4.208	46.387	54.156	38.858	2.671	36.534	41.776
13982	ENSG00000005020	SKAP2	1.2	0.0238355	0.0723363	2.684	0.217	2.436	2.835	2.200	0.140	2.056	2.335
13987	ENSG00000136603	SKIL	-1.2	0.0012192	0.006885	17.190	1.471	16.082	18.859	21.751	0.157	21.585	21.896
13993	ENSG00000039123	SKIV2L2	-1.1	0.0001511	0.0012642	64.171	1.102	62.942	65.069	73.426	1.244	72.031	74.419
13996	ENSG00000145604	SKP2	1.1	0.0098416	0.0359892	44.189	0.391	43.741	44.459	41.338	0.801	40.596	42.187
13999	ENSG00000120519	SLC10A7	1.2	0.0487856	0.1247145	1.942	0.083	1.872	2.033	1.619	0.265	1.380	1.904
14001	ENSG00000074803	SLC12A1	-1.7	0.0061711	0.0249155	0.214	0.051	0.178	0.272	0.367	0.032	0.338	0.401
14003	ENSG00000124067	SLC12A4	1.1	0.0019849	0.0101114	20.168	0.971	19.409	21.262	18.153	1.564	16.451	19.526
14005	ENSG00000140199	SLC12A6	1.1	0.0043091	0.0188319	8.936	0.550	8.428	9.520	7.974	0.546	7.536	8.585
14008	ENSG00000113504	SLC12A7	-1.1	0.004447	0.0193099	19.225	0.282	18.900	19.406	22.454	2.241	20.918	25.025
14014	ENSG00000221955	SLC12A8	1.1	0.0927285	0.2024681	4.757	0.648	4.018	5.228	4.271	0.434	3.914	4.754
14016	ENSG00000158296	SLC13A3	1.1	0.0116792	0.0413244	11.208	0.423	10.753	11.590	10.011	0.994	8.875	10.719
14018	ENSG00000088386	SLC15A1	1.7	0.0004715	0.0031885	1.850	0.168	1.691	2.026	1.135	0.197	0.916	1.297
14052	ENSG00000110446	SLC15A3	-1.2	0.0600048	0.1456363	4.230	0.333	3.960	4.603	4.979	0.840	4.341	5.931
14060	ENSG00000139370	SLC15A4	1.1	0.0146227	0.0494529	11.120	0.432	10.626	11.425	10.096	0.218	9.890	10.324
14064	ENSG00000155380	SLC16A1	-1.2	8.51E-08	2.363E-06	359.982	6.346	352.690	364.248	431.397	11.357	418.285	438.183
14065	ENSG00000226419	SLC16A1-AS1	-1.2	0.008743	0.0327004	3.394	0.483	2.971	3.920	4.127	0.103	4.050	4.243
14066	ENSG00000112394	SLC16A10	1.3	0.00012	0.0010494	3.366	0.128	3.232	3.487	2.658	0.090	2.557	2.728
14067	ENSG00000174327	SLC16A13	1.6	0.0004012	0.0028017	4.046	0.194	3.823	4.174	2.541	0.462	2.232	3.073
14068	ENSG00000163053	SLC16A14	1.2	0.0122864	0.043021	5.131	0.292	4.940	5.466	4.282	0.601	3.644	4.838
14069	ENSG00000147100	SLC16A2	1.2	0.0045638	0.0197107	35.371	5.199	29.399	38.882	30.044	2.405	27.789	32.576
14070	ENSG00000141526	SLC16A3	-2.1	3.915E-07	8.769E-06	0.584	0.184	0.460	0.795	1.238	0.086	1.150	1.321
14071	ENSG00000170190	SLC16A5	1.2	0.0113755	0.0404189	19.279	1.266	17.828	20.160	17.120	1.290	16.138	18.582
14072	ENSG00000118596	SLC16A7	1.3	0.0017571	0.0092098	1.539	0.103	1.428	1.633	1.204	0.032	1.172	1.236
14073	ENSG00000165449	SLC16A9	1.5	4.018E-09	1.678E-07	18.208	2.287	15.568	19.581	12.084	1.239	10.814	13.289
14074	ENSG00000119899	SLC17A5	1.3	2.213E-05	0.0002592	25.941	1.918	23.770	27.407	20.488	3.078	16.935	22.349
14075	ENSG00000101194	SLC17A9	-1.2	0.0030978	0.0144772	11.845	1.572	10.470	13.558	14.322	0.594	13.693	14.872
14076	ENSG00000165646	SLC18A2	-1.2	0.0011682	0.006666	9.434	0.726	8.698	10.149	11.821	1.049	10.767	12.865
14077	ENSG00000146409	SLC18B1	1.2	0.0006395	0.0040847	34.848	0.732	34.253	35.665	30.468	1.196	29.226	31.613
14079	ENSG00000117479	SLC19A2	1.3	3.583E-09	1.534E-07	46.319	0.619	45.657	46.886	36.085	1.441	34.436	37.096
14080	ENSG00000135917	SLC19A3	1.2	0.0314438	0.0895059	3.952	0.481	3.438	4.391	3.315	0.310	3.111	3.672
14081	ENSG00000115902	SLC1A4	5.5	3.027E-06	4.817E-05	0.341	0.092	0.277	0.447	0.062	0.015	0.045	0.072
14083	ENSG00000105281	SLC1A5	1.5	6.50E-11	4.399E-09	191.898	9.253	181.277	198.215	132.395	10.755	122.861	144.054
14084	ENSG00000144136	SLC20A1	1.6	1.38E-15	2.92E-13	35.703	0.741	35.102	36.531	23.381	0.876	22.413	24.117

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14085	ENSG00000168575	SLC20A2	1.1	0.0379298	0.1027396	16.377	0.458	15.973	16.874	15.352	1.056	14.358	16.460
14086	ENSG00000163393	SLC22A15	-1.1	0.1053693	0.2212473	4.252	0.660	3.547	4.855	4.927	0.403	4.607	5.379
14087	ENSG00000197847	SLC22A20	-1.4	0.0024265	0.0118541	2.541	0.212	2.383	2.781	3.528	0.195	3.327	3.716
14088	ENSG00000137266	SLC22A23	1.2	8.905E-05	0.0008221	9.526	0.893	8.933	10.553	7.886	0.614	7.522	8.595
14089	ENSG00000259803	SLC22A31	-1.2	0.0823944	0.1857157	3.340	0.691	2.547	3.818	4.151	0.474	3.645	4.584
14090	ENSG00000089057	SLC23A2	1.2	0.0002985	0.0022021	11.392	0.469	10.911	11.847	9.791	0.218	9.553	9.981
14091	ENSG00000074621	SLC24A1	1.3	0.0008742	0.0052413	6.080	1.059	5.120	7.216	4.863	0.365	4.501	5.231
14092	ENSG00000155886	SLC24A2	1.3	0.0011086	0.0063991	2.770	0.020	2.747	2.786	2.216	0.156	2.080	2.386
14093	ENSG00000140090	SLC24A4	-1.4	0.1037345	0.219014	0.147	0.044	0.113	0.196	0.219	0.069	0.140	0.266
14094	ENSG00000004864	SLC25A13	1.2	2.783E-06	4.493E-05	84.355	2.028	82.564	86.557	72.990	3.806	69.994	77.272
14096	ENSG00000102078	SLC25A14	1.2	0.0169934	0.0555881	6.724	0.986	5.595	7.414	5.594	0.115	5.491	5.717
14097	ENSG00000102743	SLC25A15	1.3	1.419E-05	0.000179	35.221	1.019	34.145	36.172	27.927	1.441	26.391	29.251
14098	ENSG00000122912	SLC25A16	1.3	0.0013683	0.0075185	3.677	0.385	3.346	4.100	2.917	0.320	2.642	3.267
14099	ENSG00000100372	SLC25A17	1.1	0.063023	0.1513643	25.358	1.132	24.202	26.464	23.830	2.051	21.685	25.771
14100	ENSG00000125454	SLC25A19	-1.3	0.0009867	0.0058006	6.299	0.366	5.881	6.560	8.372	1.111	7.493	9.622
14101	ENSG00000183032	SLC25A21	1.4	7.42E-05	0.0007086	6.452	0.432	5.955	6.738	4.620	0.531	4.011	4.991
14102	ENSG00000258708	SLC25A21-AS1	-1.2	0.0433082	0.1136497	11.142	1.572	9.982	12.932	13.440	0.832	12.915	14.399
14103	ENSG00000125648	SLC25A23	1.1	0.0197584	0.0623806	27.161	1.750	25.266	28.715	25.156	0.885	24.306	26.072
14104	ENSG00000085491	SLC25A24	1.4	7.93E-12	6.983E-10	23.140	0.998	22.450	24.284	16.349	0.744	15.740	17.178
14105	ENSG00000148339	SLC25A25	1.1	0.101259	0.214961	12.003	0.182	11.875	12.212	11.027	1.551	9.659	12.713
14106	ENSG00000197119	SLC25A29	-1.2	2.642E-05	0.0002998	47.753	1.198	46.388	48.629	56.142	2.959	53.795	59.466
14107	ENSG00000114120	SLC25A36	1.1	0.0067175	0.0266135	62.086	0.302	61.751	62.335	58.607	1.464	56.966	59.779
14108	ENSG00000147454	SLC25A37	-1.3	2.169E-07	5.279E-06	20.741	1.468	19.047	21.615	26.783	1.896	24.647	28.269
14109	ENSG00000144659	SLC25A38	-1.2	0.002368	0.0116457	31.841	1.488	30.202	33.108	37.939	1.873	36.155	39.890
14111	ENSG00000075303	SLC25A40	1.1	0.022882	0.0700459	17.346	0.678	16.574	17.842	15.973	1.145	15.130	17.277
14112	ENSG00000181035	SLC25A42	-1.4	1.769E-05	0.0002139	4.273	0.423	3.790	4.577	6.304	0.524	5.711	6.701
14113	ENSG00000160785	SLC25A44	1.2	0.0015662	0.0083824	12.247	0.260	11.952	12.441	10.773	0.294	10.477	11.066
14114	ENSG00000164209	SLC25A46	1.2	1.043E-05	0.0001378	13.275	0.559	12.664	13.761	10.899	0.872	9.900	11.505
14115	ENSG00000005022	SLC25A5	-1.1	0.0370898	0.1010144	622.744	16.685	604.681	637.579	671.435	1.731	669.662	673.120
14117	ENSG00000181045	SLC26A11	-1.2	0.00593	0.0241673	5.952	0.202	5.725	6.113	7.308	0.475	6.763	7.624
14118	ENSG00000225697	SLC26A6	-1.2	2.528E-05	0.0002899	14.194	0.628	13.469	14.572	18.024	1.546	16.717	19.731
14119	ENSG00000147606	SLC26A7	-3.2	1.53E-05	0.0001894	0.189	0.064	0.141	0.261	0.630	0.148	0.520	0.798
14120	ENSG00000140284	SLC27A2	1.3	0.0064536	0.0257792	6.646	0.755	6.060	7.497	5.200	0.533	4.646	5.709
14121	ENSG00000113396	SLC27A6	1.2	0.0191902	0.0609944	8.270	0.396	7.867	8.658	7.008	0.383	6.671	7.425
14122	ENSG00000174669	SLC29A2	1.3	2.704E-05	0.0003057	30.789	1.889	29.602	32.967	24.878	1.229	23.806	26.220
14123	ENSG00000198246	SLC29A3	1.2	0.0127428	0.0442544	8.756	0.084	8.659	8.807	7.324	1.038	6.404	8.449
14124	ENSG00000164638	SLC29A4	-1.3	0.0006996	0.0043712	4.007	0.329	3.633	4.256	5.402	0.491	4.944	5.921
14125	ENSG00000117394	SLC2A1	1.3	3.878E-09	1.64E-07	115.565	3.058	112.125	117.979	93.515	8.034	84.380	99.484
14126	ENSG00000197496	SLC2A10	1.2	2.114E-05	0.0002493	17.588	0.583	16.920	17.995	14.445	0.946	13.718	15.515
14127	ENSG00000146411	SLC2A12	1.2	0.021946	0.067815	17.937	3.614	15.005	21.975	15.589	0.615	14.981	16.211
14128	ENSG00000173262	SLC2A14	1.1	0.0765037	0.1750889	16.860	0.597	16.435	17.542	15.933	1.054	15.301	17.150
14129	ENSG00000059804	SLC2A3	1.2	4.907E-10	2.594E-08	527.030	11.337	515.780	538.451	442.026	15.400	427.304	458.025

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14130	ENSG00000181856	SLC2A4	-1.2	0.044239	0.1156615	4.476	0.680	3.719	5.036	5.459	0.730	4.836	6.262
14131	ENSG00000160326	SLC2A6	1.2	0.0097918	0.0358382	7.974	1.118	6.818	9.051	6.679	0.609	6.034	7.246
14132	ENSG00000170385	SLC30A1	1.2	0.0001384	0.001176	30.733	2.889	28.932	34.066	26.405	0.407	26.016	26.828
14133	ENSG00000115194	SLC30A3	1.4	0.0001194	0.0010459	5.619	0.981	4.643	6.604	4.118	0.186	3.908	4.260
14134	ENSG00000152683	SLC30A6	-1.1	0.0089205	0.0332245	21.189	0.805	20.296	21.860	23.996	0.808	23.185	24.802
14135	ENSG00000162695	SLC30A7	1.1	0.0975999	0.2095871	8.756	0.252	8.467	8.925	8.192	0.768	7.379	8.906
14136	ENSG0000014824	SLC30A9	1.1	0.0852505	0.1902165	49.623	1.117	48.335	50.324	48.253	1.105	47.515	49.524
14137	ENSG00000169359	SLC33A1	-1.1	0.1079763	0.2254851	9.085	0.110	8.984	9.202	10.000	0.653	9.268	10.523
14138	ENSG00000157765	SLC34A2	1.4	0.1047989	0.2205928	0.620	0.162	0.440	0.754	0.453	0.052	0.397	0.499
14139	ENSG00000164414	SLC35A1	1.4	0.0002277	0.0017714	10.057	1.601	8.298	11.432	7.186	0.454	6.902	7.710
14140	ENSG00000117620	SLC35A3	1.2	0.007267	0.0283262	3.952	0.084	3.872	4.040	3.494	0.177	3.372	3.697
14141	ENSG00000121073	SLC35B1	1.2	0.0001572	0.0013087	16.315	0.496	16.000	16.887	13.643	1.510	12.208	15.218
14142	ENSG00000157593	SLC35B2	1.2	1.475E-05	0.0001837	45.110	0.379	44.765	45.516	37.510	0.875	37.001	38.521
14146	ENSG00000124786	SLC35B3	-1.2	0.0048683	0.0207347	15.961	1.396	14.641	17.422	19.761	2.232	17.369	21.788
14147	ENSG00000205060	SLC35B4	1.2	3.245E-05	0.0003562	33.170	0.615	32.586	33.812	29.209	1.471	27.897	30.800
14148	ENSG00000181830	SLC35C1	-1.1	0.0250627	0.0750905	8.810	0.456	8.334	9.242	10.199	0.230	9.997	10.450
14149	ENSG00000130958	SLC35D2	1.2	0.0077651	0.0299322	23.239	1.179	22.466	24.596	20.450	0.650	19.736	21.007
14151	ENSG00000182747	SLC35D3	1.8	0.0007248	0.0044953	2.492	0.555	2.003	3.095	1.374	0.270	1.119	1.657
14152	ENSG00000189339	SLC35E2B	-1.1	0.0356043	0.0980743	19.320	1.023	18.405	20.425	21.343	0.346	20.958	21.625
14153	ENSG00000100036	SLC35E4	-1.3	0.0090704	0.0336321	1.643	0.205	1.416	1.815	2.217	0.091	2.142	2.319
14154	ENSG00000183780	SLC35F3	1.3	0.0752742	0.1729008	2.735	0.475	2.449	3.283	2.213	0.253	1.944	2.448
14155	ENSG00000151812	SLC35F4	5.2	0.0380461	0.1029519	0.082	0.021	0.070	0.105	0.012	0.021	0.000	0.037
14156	ENSG00000115084	SLC35F5	1.1	0.0029067	0.0137055	15.076	0.732	14.367	15.829	13.457	0.110	13.340	13.559
14157	ENSG00000213699	SLC35F6	1.4	6.067E-06	8.726E-05	9.592	0.258	9.308	9.813	7.058	0.312	6.734	7.356
14158	ENSG00000176273	SLC35G1	1.3	0.0002257	0.0017586	5.134	0.589	4.454	5.476	3.926	0.396	3.470	4.184
14159	ENSG00000168917	SLC35G2	1.2	0.0613256	0.1480446	3.697	0.269	3.478	3.998	3.182	0.396	2.789	3.581
14160	ENSG00000180773	SLC36A4	-1.1	0.0292454	0.0846239	13.350	0.345	12.953	13.553	14.913	1.053	13.758	15.819
14161	ENSG00000160190	SLC37A1	-1.1	0.0212012	0.0660528	7.905	0.310	7.627	8.239	9.126	0.716	8.327	9.709
14163	ENSG00000157800	SLC37A3	-1.1	0.003697	0.0166472	15.904	0.574	15.309	16.455	18.009	0.333	17.799	18.393
14164	ENSG00000137700	SLC37A4	-1.1	0.0169639	0.0555384	27.877	1.772	26.040	29.575	31.055	0.918	30.054	31.856
14165	ENSG00000111371	SLC38A1	1.3	2.48E-12	2.492E-10	117.551	5.812	111.155	122.509	91.037	1.953	89.401	93.199
14166	ENSG00000157637	SLC38A10	1.3	5.433E-05	0.0005473	10.424	0.411	9.950	10.665	8.473	0.596	7.786	8.856
14167	ENSG00000134294	SLC38A2	1.3	1.936E-06	3.301E-05	248.708	21.631	226.276	269.437	201.090	7.459	193.148	207.948
14168	ENSG00000139974	SLC38A6	1.3	0.0086503	0.0324181	3.204	0.120	3.069	3.300	2.587	0.229	2.325	2.746
14169	ENSG00000103042	SLC38A7	1.3	1.089E-06	2.057E-05	11.681	0.408	11.444	12.151	9.046	0.621	8.522	9.732
14170	ENSG00000177058	SLC38A9	1.2	0.0001749	0.0014318	10.022	0.875	9.376	11.018	8.428	0.546	7.802	8.801
14171	ENSG00000133195	SLC39A11	1.2	0.0069726	0.0274377	5.856	0.432	5.554	6.351	4.982	0.374	4.566	5.291
14172	ENSG00000104635	SLC39A14	1.1	0.0106562	0.0383627	74.853	5.059	71.209	80.628	70.203	5.653	65.189	76.330
14173	ENSG00000141424	SLC39A6	1.1	0.0170807	0.0557854	55.738	1.470	54.180	57.101	52.675	0.696	52.076	53.438
14174	ENSG00000112473	SLC39A7	-1.1	0.0034011	0.0155845	109.342	2.506	106.463	111.025	122.474	6.831	114.960	128.308
14175	ENSG00000138821	SLC39A8	1.4	2.361E-08	7.891E-07	10.772	0.973	10.162	11.894	7.747	0.309	7.391	7.957
14176	ENSG00000168003	SLC3A2	1.3	2.43E-13	3.03E-11	159.214	5.455	152.934	162.776	121.730	2.778	118.919	124.473
14177	ENSG00000136052	SLC41A2	1.7	0.0002107	0.0016617	1.619	0.209	1.417	1.834	0.952	0.144	0.814	1.102

	A	B	C	D	E	F	G	H	I	J	K	L	M
14178	ENSG00000114544	SLC41A3	1.1	0.0977268	0.2097796	12.713	0.733	11.960	13.425	12.004	0.634	11.365	12.633
14179	ENSG00000149150	SLC43A1	1.4	6.557E-08	1.877E-06	17.855	1.419	16.261	18.982	12.652	0.484	12.143	13.107
14180	ENSG00000167703	SLC43A2	1.1	0.095699	0.2068972	2.118	0.245	1.894	2.380	1.896	0.228	1.636	2.064
14181	ENSG00000070214	SLC44A1	1.1	0.0139146	0.0475491	37.692	0.826	36.851	38.501	35.917	1.268	34.620	37.153
14182	ENSG00000129353	SLC44A2	-1.1	0.0043692	0.0190503	52.433	1.365	50.866	53.363	59.028	4.264	54.168	62.138
14185	ENSG00000143036	SLC44A3	1.2	0.0980709	0.210278	4.559	0.744	3.999	5.404	3.888	0.704	3.083	4.385
14186	ENSG00000204385	SLC44A4	1.2	0.0912529	0.2004104	3.793	0.887	2.874	4.645	3.199	0.144	3.110	3.365
14187	ENSG00000137968	SLC44A5	-1.2	0.0950277	0.2059927	3.307	0.397	2.909	3.703	3.919	0.580	3.378	4.531
14188	ENSG00000022567	SLC45A4	1.2	0.0013058	0.0072505	8.059	0.265	7.770	8.290	7.023	0.462	6.514	7.415
14189	ENSG00000076351	SLC46A1	1.4	7.654E-06	0.0001061	4.530	0.291	4.201	4.752	3.199	0.491	2.893	3.765
14190	ENSG00000139508	SLC46A3	2	0.0008471	0.0051132	1.112	0.286	0.783	1.302	0.563	0.025	0.535	0.580
14191	ENSG00000211584	SLC48A1	1.3	0.0001817	0.0014781	9.563	0.298	9.337	9.900	7.541	0.878	6.817	8.518
14192	ENSG00000033867	SLC4A7	1.2	5.147E-07	1.109E-05	57.111	1.975	55.358	59.251	48.682	2.940	46.157	51.909
14193	ENSG00000169241	SLC50A1	1.1	0.0356038	0.0980743	36.673	2.512	33.946	38.892	34.080	0.792	33.306	34.889
14194	ENSG00000198743	SLC5A3	1.1	0.0079708	0.0305102	25.540	2.255	24.003	28.129	23.454	1.412	21.881	24.609
14195	ENSG00000072041	SLC6A15	1.2	0.0004375	0.0029988	10.988	0.594	10.307	11.402	9.473	0.335	9.091	9.712
14196	ENSG00000063127	SLC6A16	1.3	0.0572669	0.1406556	1.853	0.539	1.231	2.176	1.402	0.114	1.295	1.521
14198	ENSG00000131389	SLC6A6	-1.2	5.802E-07	1.221E-05	74.120	4.586	70.070	79.099	89.740	3.007	86.493	92.430
14199	ENSG00000130821	SLC6A8	-1.2	0.0033014	0.0152103	39.119	1.695	37.225	40.493	46.607	6.071	39.610	50.476
14200	ENSG00000196517	SLC6A9	1.4	6.771E-05	0.0006573	7.169	0.599	6.496	7.646	5.289	0.673	4.626	5.972
14201	ENSG00000139514	SLC7A1	1.6	2.53E-18	1.12E-15	62.832	3.347	59.023	65.304	39.366	1.648	37.838	41.113
14202	ENSG00000151012	SLC7A11	4.2	2.89E-24	6.98E-21	34.250	2.750	31.743	37.192	8.376	0.755	7.552	9.032
14203	ENSG00000013293	SLC7A14	2.1	1.368E-06	2.474E-05	0.954	0.081	0.862	1.016	0.463	0.109	0.342	0.553
14204	ENSG00000003989	SLC7A2	1.1	0.0027903	0.0133084	24.180	1.029	22.992	24.803	21.952	1.610	20.157	23.265
14205	ENSG00000165349	SLC7A3	1.1	0.0064565	0.02578	237.651	16.924	219.609	253.176	223.279	5.948	219.682	230.145
14206	ENSG00000103257	SLC7A5	2	5.785E-09	2.329E-07	145.464	7.345	136.982	149.717	74.104	10.743	65.900	86.264
14207	ENSG00000103061	SLC7A6OS	1.1	0.0584532	0.1427662	17.421	0.109	17.295	17.489	16.412	0.823	15.792	17.346
14208	ENSG00000092068	SLC7A8	1.3	8.43E-12	7.348E-10	94.676	3.173	91.234	97.483	73.163	3.762	69.557	77.064
14209	ENSG00000090020	SLC9A1	-1.2	0.0044145	0.0192032	7.877	0.397	7.419	8.130	9.500	0.728	8.735	10.184
14212	ENSG00000109062	SLC9A3R1	-1.1	0.0288599	0.0837521	66.675	3.368	62.821	69.052	74.665	7.272	69.855	83.030
14213	ENSG00000135740	SLC9A5	-1.3	0.0019686	0.0100469	4.528	0.262	4.250	4.771	5.880	0.403	5.531	6.321
14214	ENSG00000198689	SLC9A6	1.1	0.0118185	0.0416865	9.191	0.435	8.693	9.500	8.198	0.637	7.544	8.816
14215	ENSG00000065923	SLC9A7	-1.1	0.0093274	0.0344067	9.711	0.341	9.355	10.036	11.057	0.644	10.340	11.587
14217	ENSG00000197818	SLC9A8	1.2	0.0012101	0.006854	5.786	0.168	5.620	5.956	4.784	0.439	4.277	5.044
14218	ENSG00000164038	SLC9B2	1.4	9.374E-05	0.0008584	5.576	0.384	5.157	5.911	4.209	0.375	3.901	4.627
14219	ENSG00000174640	SLC02A1	1.5	0.0156669	0.0522219	1.272	0.219	1.035	1.466	0.880	0.200	0.663	1.058
14220	ENSG00000173930	SLC04C1	1.6	8.316E-09	3.161E-07	7.964	0.235	7.709	8.171	5.075	0.470	4.615	5.554
14221	ENSG00000137571	SLC05A1	-1.2	0.0512217	0.1293389	1.625	0.132	1.521	1.774	1.950	0.141	1.787	2.035
14222	ENSG00000119906	SLF2	1.3	3.087E-08	9.819E-07	13.464	0.187	13.282	13.656	10.522	0.465	10.054	10.984
14223	ENSG00000172716	SLFN11	1.4	0.0326746	0.0922118	1.075	0.233	0.809	1.243	0.780	0.073	0.725	0.863
14225	ENSG00000172123	SLFN12	1.8	5.031E-10	2.651E-08	10.883	1.437	9.374	12.235	6.207	0.659	5.584	6.897
14226	ENSG00000154760	SLFN13	1.4	2.337E-09	1.046E-07	17.022	0.839	16.333	17.956	12.235	1.035	11.045	12.934
14227	ENSG00000119705	SLIRP	-1.1	0.0102609	0.037233	74.095	1.544	72.522	75.609	82.528	1.558	80.748	83.639

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14228	ENSG00000187122	SLIT1	-1.6	0.0003077	0.0022565	0.618	0.074	0.551	0.698	1.036	0.143	0.887	1.173
14229	ENSG00000178235	SLITRK1	-2.3	5.265E-05	0.0005339	0.486	0.201	0.256	0.632	1.148	0.072	1.077	1.222
14230	ENSG00000121871	SLITRK3	-1.2	0.1172788	0.2389803	2.463	0.227	2.233	2.688	2.926	0.257	2.661	3.175
14231	ENSG00000165300	SLITRK5	-1.1	0.0356273	0.0981055	1.794	0.133	1.666	1.931	2.095	0.183	1.891	2.246
14232	ENSG00000065613	SLK	1.2	5.628E-08	1.653E-06	38.594	0.563	37.994	39.112	31.750	1.832	29.662	33.089
14233	ENSG00000163681	SLMAP	1.1	0.0016752	0.0088708	15.510	0.084	15.456	15.607	14.185	1.014	13.377	15.323
14234	ENSG00000137776	SLTM	-1.2	1.888E-05	0.0002261	55.074	5.132	50.630	60.691	70.074	4.822	65.551	75.147
14236	ENSG00000164609	SLU7	1.1	0.002103	0.0105576	22.755	0.766	21.920	23.424	20.383	0.814	19.506	21.116
14237	ENSG00000149346	SLX4IP	-1.1	0.1006365	0.2140218	4.167	0.117	4.085	4.301	4.753	0.348	4.378	5.064
14239	ENSG00000170365	SMAD1	1.2	0.0005504	0.0036167	9.039	0.174	8.871	9.218	7.603	0.479	7.273	8.152
14240	ENSG00000141646	SMAD4	-1.1	0.0003191	0.0023205	20.500	0.276	20.186	20.702	23.984	0.274	23.668	24.163
14241	ENSG00000113658	SMAD5	-1.1	0.0034753	0.0158432	39.953	0.743	39.312	40.767	44.605	2.155	42.120	45.947
14243	ENSG00000120693	SMAD9	1.6	0.002683	0.012905	0.975	0.051	0.937	1.033	0.599	0.171	0.408	0.738
14244	ENSG00000170545	SMAGP	1.3	0.0057425	0.0235851	4.925	0.284	4.606	5.149	3.883	0.640	3.361	4.597
14246	ENSG00000084070	SMAP2	1.4	0.0017669	0.0092288	4.379	0.143	4.229	4.513	3.228	0.551	2.800	3.849
14247	ENSG00000102038	SMARCA1	1.1	0.0011166	0.0064364	141.304	6.249	136.453	148.355	131.319	3.793	127.650	135.224
14248	ENSG00000080503	SMARCA2	-1.6	1.63E-08	5.683E-07	1.758	0.228	1.540	1.995	2.850	0.256	2.565	3.060
14249	ENSG00000127616	SMARCA4	-1.1	0.0045859	0.0197759	63.856	1.502	62.636	65.534	70.985	1.937	69.336	73.119
14250	ENSG00000153147	SMARCA5	-1.1	0.0022222	0.0110155	137.601	3.144	134.326	140.596	151.886	2.724	148.752	153.681
14251	ENSG00000163104	SMARCA5 1	1.1	6.128E-05	0.0006054	49.689	1.798	48.143	51.663	44.382	0.596	43.739	44.915
14252	ENSG00000099956	SMARCB1	-1.1	0.0841598	0.1886041	104.592	6.098	97.656	109.112	113.218	3.388	109.307	115.238
14253	ENSG00000139613	SMARCC2	-1.1	0.000532	0.0035204	25.072	1.125	23.816	25.990	28.995	0.945	28.208	30.043
14254	ENSG00000073584	SMARCE1	-1	0.1204093	0.2435289	20.888	0.116	20.763	20.992	22.376	0.280	22.209	22.699
14255	ENSG00000072501	SMC1A	1.1	0.0117977	0.0416651	59.879	1.001	59.299	61.035	57.144	2.611	54.377	59.563
14257	ENSG00000136824	SMC2	1.1	0.0192465	0.0611069	32.532	1.005	31.764	33.670	30.646	0.203	30.498	30.877
14258	ENSG00000270332	SMC2-AS1	-1.4	0.1180646	0.2400898	0.343	0.106	0.274	0.465	0.481	0.046	0.448	0.534
14259	ENSG00000108055	SMC3	-1.1	0.0705423	0.1647447	124.474	4.603	120.843	129.651	134.461	4.238	129.779	138.038
14261	ENSG00000113810	SMC4	-1.1	0.0011747	0.0066923	86.436	3.886	83.204	90.748	99.070	5.373	95.288	105.219
14263	ENSG00000183172	SMDT1	1.1	0.1063335	0.2228292	16.773	1.697	14.927	18.265	15.326	0.670	14.558	15.790
14264	ENSG00000157106	SMG1	-1.1	0.0720693	0.1675245	23.865	0.674	23.152	24.492	25.671	0.388	25.226	25.935
14267	ENSG00000261556	SMG1P7	-1.3	0.0003276	0.0023688	6.944	0.130	6.850	7.092	9.079	1.021	7.961	9.963
14268	ENSG00000198952	SMG5	-1.1	0.0106846	0.0384404	72.303	0.607	71.707	72.920	80.129	5.241	74.107	83.655
14269	ENSG00000070366	SMG6	1.2	0.0005434	0.0035805	12.701	0.598	12.157	13.341	11.152	0.450	10.658	11.536
14270	ENSG00000116698	SMG7	-1.1	0.0326465	0.0921633	34.696	1.797	32.628	35.880	38.086	0.913	37.084	38.869
14272	ENSG00000167447	SMG8	-1.1	0.0929818	0.2026025	16.635	0.683	15.947	17.313	18.425	0.542	17.799	18.750
14273	ENSG00000105771	SMG9	-1.1	0.1216152	0.2453923	7.580	0.180	7.394	7.753	8.356	0.474	8.021	8.898
14274	ENSG00000256537	SMIM10L1	1.2	0.0003016	0.0022186	15.931	0.474	15.457	16.405	13.621	0.466	13.085	13.928

	A	B	C	D	E	F	G	H	I	J	K	L	M
14275	ENSG00000178947	SMIM10L2 A	1.4	5.821E-06	8.457E-05	16.946	2.364	14.228	18.531	12.271	1.124	11.041	13.244
14276	ENSG00000196972	SMIM10L2 B	1.4	0.0076278	0.0294809	6.902	0.645	6.316	7.594	5.176	1.028	4.085	6.128
14277	ENSG00000188725	SMIM15	1.1	0.0199574	0.0629171	49.876	2.368	47.559	52.292	46.529	1.925	44.337	47.946
14278	ENSG00000235453	SMIM27	-1.2	0.0738434	0.1705415	5.145	0.553	4.734	5.773	6.451	1.252	5.015	7.314
14279	ENSG00000186577	SMIM29	1.2	0.0201831	0.0635202	8.772	0.140	8.616	8.890	7.324	1.162	6.061	8.350
14280	ENSG00000214046	SMIM7	1.1	0.0369084	0.1006502	11.385	0.684	10.595	11.780	10.507	0.381	10.080	10.812
14281	ENSG00000172062	SMN1	-1.1	0.0083724	0.0316616	31.365	1.402	30.344	32.964	35.922	1.109	34.643	36.616
14282	ENSG00000205571	SMN2	-1.2	0.002085	0.0104889	23.780	1.252	22.950	25.220	28.332	1.228	27.062	29.514
14283	ENSG00000119953	SMNDC1	1.1	0.0641608	0.1532916	32.848	0.474	32.481	33.383	31.359	0.855	30.373	31.908
14285	ENSG00000112562	SMOC2	-2.1	1.667E-09	7.766E-08	3.187	0.866	2.563	4.175	6.812	0.141	6.663	6.943
14286	ENSG00000136699	SMPD4	-1.1	0.0072103	0.0281601	36.483	0.112	36.356	36.569	41.043	3.521	38.107	44.947
14289	ENSG00000204791	SMPD5	1.5	0.0038508	0.0172024	4.791	0.187	4.603	4.977	3.337	0.600	2.770	3.966
14290	ENSG00000130768	SMPDL3B	1.1	0.0463204	0.1197892	34.119	2.420	31.630	36.465	31.766	2.558	28.815	33.330
14291	ENSG00000102172	SMS	1.1	0.000316	0.0023057	326.497	21.248	305.454	347.945	298.675	8.262	290.466	306.989
14292	ENSG00000183963	SMTN	-1.2	0.0212482	0.0661458	4.561	0.302	4.270	4.873	5.413	0.480	4.867	5.768
14293	ENSG00000188176	SMTNL2	-1.6	0.0006959	0.0043517	2.660	0.439	2.273	3.137	4.243	0.579	3.581	4.653
14294	ENSG00000122692	SMU1	-1.1	0.0054932	0.0227268	34.620	0.568	34.244	35.273	38.903	0.237	38.640	39.100
14295	ENSG00000108854	SMURF2	1.1	0.0020961	0.0105351	17.841	0.240	17.593	18.072	16.122	0.848	15.215	16.896
14296	ENSG00000143499	SMYD2	1.4	0.0014877	0.0080361	2.756	0.223	2.499	2.899	2.045	0.092	1.983	2.151
14297	ENSG00000185669	SNAI3	-1.2	0.0486986	0.1245108	10.319	1.831	8.530	12.190	12.562	0.635	12.044	13.270
14298	ENSG00000260630	SNAI3- AS1	1.4	0.0520268	0.1309417	0.990	0.152	0.821	1.115	0.729	0.237	0.466	0.925
14299	ENSG00000099940	SNAP29	1.1	0.0533736	0.1335366	8.413	1.290	7.273	9.814	7.529	0.620	6.884	8.121
14300	ENSG00000023608	SNAPC1	1.2	0.0073697	0.028621	29.723	0.738	29.259	30.574	26.337	3.377	22.804	29.532
14301	ENSG00000104976	SNAPC2	-1.2	0.0110581	0.039507	13.898	0.447	13.558	14.405	16.915	1.172	15.604	17.859
14302	ENSG00000164975	SNAPC3	-1.1	0.0276456	0.0809505	29.151	1.423	27.517	30.119	32.481	2.701	29.845	35.243
14303	ENSG00000165684	SNAPC4	-1.3	0.0002739	0.0020587	7.073	0.890	6.054	7.697	9.596	1.409	8.188	11.005
14304	ENSG00000174446	SNAPC5	1.1	0.0882661	0.1951941	21.098	1.545	19.314	22.030	19.600	0.212	19.356	19.745
14305	ENSG00000145335	SNCA	1.3	0.000665	0.0042027	9.054	0.674	8.276	9.459	7.259	0.882	6.332	8.086
14306	ENSG00000173267	SNCG	-1.4	0.0004226	0.0029183	12.435	0.737	11.848	13.262	17.667	1.000	16.932	18.805
14307	ENSG00000197157	SND1	-1.1	0.0027434	0.0131404	129.983	1.555	128.292	131.352	143.772	2.925	140.878	146.726
14308	ENSG00000162804	SNED1	1.4	0.0183086	0.0589032	0.614	0.107	0.511	0.723	0.453	0.045	0.414	0.503
14309	ENSG00000255717	SNHG1	-1.1	0.0259753	0.0771549	192.085	6.034	187.032	198.766	208.933	1.027	208.253	210.114
14310	ENSG00000247092	SNHG10	-1.3	0.0023828	0.0116949	11.372	0.546	11.030	12.001	14.693	1.018	13.733	15.761
14311	ENSG00000197989	SNHG12	-1.4	2.921E-06	4.673E-05	11.006	2.312	9.318	13.641	16.279	1.300	14.946	17.544
14312	ENSG00000224078	SNHG14	1.2	2.262E-07	5.478E-06	70.031	4.766	64.551	73.207	60.711	0.824	59.771	61.308
14313	ENSG00000232956	SNHG15	-1.2	1.483E-05	0.0001846	25.939	0.557	25.319	26.395	32.314	0.844	31.346	32.892
14314	ENSG00000163597	SNHG16	-1.3	1.425E-08	5.064E-07	33.410	0.139	33.286	33.560	43.403	1.533	41.741	44.762
14315	ENSG00000196756	SNHG17	-1.1	0.0597213	0.1451453	18.518	0.571	17.953	19.094	20.546	1.478	19.336	22.193

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14316	ENSG00000250786	SNHG18	-1.4	0.000204	0.0016189	8.604	0.160	8.476	8.784	12.487	1.152	11.544	13.771
14317	ENSG00000260260	SNHG19	-1.3	0.0026113	0.0126258	84.884	1.171	83.641	85.966	109.126	8.122	103.533	118.443
14318	ENSG00000250988	SNHG21	1.3	0.0793465	0.1802293	4.923	1.195	3.788	6.169	3.723	0.609	3.328	4.424
14319	ENSG00000266402	SNHG25	-1.9	0.0043062	0.0188241	5.687	1.140	4.780	6.967	10.903	0.437	10.614	11.406
14320	ENSG00000228649	SNHG26	-1.4	0.0002602	0.0019735	5.479	0.566	4.890	6.018	7.895	1.070	6.668	8.631
14322	ENSG00000242125	SNHG3	-1.1	0.0005146	0.0034359	76.803	4.961	73.363	82.490	87.946	1.546	86.999	89.730
14323	ENSG00000281398	SNHG4	-1.2	0.0001439	0.001217	43.554	4.632	39.296	48.487	54.257	1.630	52.458	55.637
14324	ENSG00000203875	SNHG5	-1.1	0.0143283	0.0487202	198.550	5.545	194.203	204.795	217.041	1.389	215.448	218.001
14325	ENSG00000233016	SNHG7	-1.1	0.0683286	0.1608633	13.680	2.305	11.452	16.056	15.582	0.839	14.654	16.288
14326	ENSG00000184602	SNN	-1.2	0.000145	0.0012246	62.325	1.627	61.222	64.193	73.452	4.274	70.040	78.247
14327	ENSG00000200087	SNORA73B	-1.4	0.0960233	0.2073259	12.591	1.888	10.863	14.606	18.043	3.043	15.225	21.270
14328	ENSG00000207063	SNORD116-1	1.3	0.1023491	0.2166495	50.602	5.179	46.625	56.458	39.676	1.119	38.647	40.868
14329	ENSG00000207001	SNORD116-2	2	0.0020012	0.0101823	41.645	6.188	34.502	45.364	20.890	5.268	15.530	26.061
14330	ENSG00000201785	SNORD117	-1.4	0.1110705	0.2300153	36.378	4.012	33.026	40.823	50.728	15.920	36.781	68.072
14331	ENSG00000263934	SNORD3A	-1.5	0.0827077	0.1861639	2.639	0.384	2.304	3.059	3.957	0.533	3.588	4.567
14332	ENSG00000144028	SNRNP200	-1.1	5.366E-05	0.0005421	120.188	3.245	116.443	122.136	136.784	3.587	132.642	138.875
14333	ENSG00000060688	SNRNP40	-1.1	0.0010369	0.0060516	56.083	1.124	55.276	57.368	64.008	2.327	62.624	66.695
14334	ENSG00000168566	SNRNP48	-1.2	3.446E-06	5.386E-05	19.443	0.413	19.012	19.836	24.855	1.832	22.965	26.623
14335	ENSG00000125835	SNRPB	-1.1	0.0002985	0.0022021	445.927	9.903	434.501	452.026	507.373	22.260	482.182	524.389
14336	ENSG00000125743	SNRPD2	-1.1	0.0740418	0.1708416	332.593	9.545	323.502	342.536	357.108	5.044	352.189	362.269
14337	ENSG00000100028	SNRPD3	-1	0.0954731	0.2065938	143.205	2.350	141.606	145.904	153.581	5.506	149.391	159.817
14338	ENSG00000182004	SNRPE	-1.1	0.0049687	0.021042	119.311	6.804	113.929	126.959	136.056	4.637	130.703	138.846
14339	ENSG00000256968	SNRPEP2	-1.2	0.0025727	0.0124519	260.594	7.326	252.148	265.215	306.336	15.244	296.166	323.863
14341	ENSG00000233270	SNRPEP4	-1.1	0.0213087	0.0662731	280.482	32.089	248.485	312.663	324.066	26.285	294.484	344.737
14342	ENSG00000172164	SNTB1	1.3	6.261E-07	1.299E-05	10.375	0.649	9.738	11.036	7.895	0.231	7.696	8.148
14343	ENSG00000168807	SNTB2	-1.1	0.0963108	0.2077407	12.306	0.447	11.916	12.794	13.377	0.235	13.179	13.636
14344	ENSG00000172554	SNTG2	-1.2	0.0839636	0.188364	3.324	0.573	2.867	3.967	4.028	0.094	3.958	4.135
14345	ENSG00000169371	SNUPN	1.2	0.0027019	0.0129783	12.133	0.191	11.975	12.346	10.313	0.469	10.015	10.854
14346	ENSG00000273173	SNURF	-1.4	0.0092165	0.0340494	4.835	0.969	3.898	5.833	7.092	0.429	6.818	7.587
14347	ENSG00000100603	SNW1	-1.1	0.0373865	0.1015687	94.261	3.478	90.606	97.529	102.934	2.255	100.354	104.523
14348	ENSG0000028528	SNX1	1.2	2.866E-05	0.0003214	28.039	1.491	26.353	29.180	24.409	0.892	23.873	25.439
14349	ENSG00000002919	SNX11	1.2	0.0012807	0.0071558	14.048	0.109	13.962	14.171	11.974	0.383	11.671	12.404
14350	ENSG00000135317	SNX14	1.1	0.0898307	0.1978779	13.455	0.398	13.142	13.902	12.720	0.818	11.777	13.236
14351	ENSG00000115234	SNX17	-1.1	0.0225994	0.0693566	41.889	1.118	40.823	43.053	46.562	1.323	45.249	47.896

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14352	ENSG00000178996	SNX18	1.1	0.0137501	0.0470856	12.462	0.748	11.689	13.182	11.336	0.810	10.411	11.915
14353	ENSG00000225345	SNX18P3	-1.5	0.0135614	0.046562	2.290	0.475	1.741	2.572	3.551	0.369	3.125	3.766
14354	ENSG00000124104	SNX21	-1.3	0.0001524	0.0012738	8.256	1.293	7.194	9.695	11.142	0.574	10.578	11.726
14355	ENSG00000064652	SNX24	1.1	0.0543552	0.1353916	13.740	0.896	13.184	14.774	12.594	0.371	12.380	13.022
14356	ENSG00000112335	SNX3	1.1	0.0257905	0.0767678	125.408	3.517	121.474	128.250	119.123	3.572	116.264	123.127
14358	ENSG00000148158	SNX30	1.2	8.052E-05	0.0007566	18.434	0.539	17.874	18.949	16.214	1.087	15.010	17.124
14359	ENSG00000173548	SNX33	-1.1	0.0777543	0.177399	13.275	0.357	12.906	13.619	14.644	1.541	13.233	16.288
14360	ENSG00000114520	SNX4	1.1	0.0091329	0.0338267	49.569	1.989	47.682	51.646	45.394	1.544	43.626	46.475
14361	ENSG00000162627	SNX7	1.2	0.0022315	0.0110516	35.610	0.395	35.318	36.059	31.231	2.044	29.490	33.482
14362	ENSG00000106266	SNX8	1.1	0.0016293	0.0086685	19.142	0.699	18.336	19.577	17.048	0.621	16.363	17.576
14363	ENSG00000130340	SNX9	1.4	4.36E-11	3.113E-09	36.769	0.787	36.075	37.624	27.064	0.365	26.646	27.317
14364	ENSG00000057252	SOAT1	1.3	0.0051521	0.0216223	2.277	0.055	2.215	2.318	1.754	0.248	1.525	2.017
14365	ENSG00000120833	SOCS2	1.3	1.436E-05	0.0001804	9.427	0.799	8.961	10.350	7.502	0.124	7.386	7.632
14366	ENSG00000246985	SOCS2-AS1	1.4	0.0110233	0.0394244	2.407	0.173	2.207	2.515	1.772	0.365	1.356	2.035
14367	ENSG00000184557	SOCS3	1.6	1.928E-10	1.173E-08	24.774	1.463	23.868	26.462	15.861	1.635	14.712	17.734
14368	ENSG00000171150	SOCS5	-1.1	0.0028369	0.0134517	16.259	0.884	15.375	17.143	19.032	0.771	18.202	19.725
14369	ENSG00000274211	SOCS7	-1.1	0.0480322	0.1231608	17.912	1.010	17.299	19.079	19.815	1.747	17.888	21.294
14370	ENSG00000109610	SOD3	-1.4	0.0343938	0.0956905	2.879	0.716	2.220	3.641	4.132	1.526	3.065	5.880
14371	ENSG00000149639	SOGA1	-1.1	0.0008472	0.0051132	11.593	0.542	10.977	11.995	13.521	0.932	12.488	14.298
14372	ENSG00000120669	SOHLH2	1.4	0.0098929	0.0361378	4.501	0.640	3.770	4.955	3.374	0.074	3.290	3.427
14373	ENSG00000159140	SON	-1.1	0.0386108	0.1040676	87.681	3.957	84.409	92.079	94.548	3.206	91.749	98.046
14374	ENSG00000095637	SORBS1	-1.1	0.0003057	0.0022433	13.157	0.240	12.891	13.358	15.408	0.341	15.015	15.626
14375	ENSG00000154556	SORBS2	-1.2	0.0703174	0.1644012	1.068	0.269	0.891	1.377	1.283	0.136	1.127	1.377
14376	ENSG00000184985	SORCS2	-1.4	0.062229	0.149755	0.539	0.068	0.472	0.608	0.755	0.134	0.668	0.910
14377	ENSG00000140263	SORD	-1.1	0.0003038	0.0022324	25.995	0.555	25.511	26.601	30.146	0.370	29.837	30.556
14378	ENSG00000259479	SORD2P	-1.1	0.0291691	0.0844466	13.456	0.867	12.956	14.457	15.541	0.370	15.132	15.852
14379	ENSG00000229692	SOS1-IT1	1.4	0.0007397	0.0045678	10.826	0.326	10.455	11.067	7.642	0.975	6.521	8.297
14380	ENSG00000100485	SOS2	1.3	1.031E-05	0.0001367	10.368	0.188	10.157	10.519	8.286	0.295	7.957	8.528
14381	ENSG00000198142	SOWAHC	1.3	1.31E-06	2.385E-05	17.865	0.163	17.722	18.043	14.322	0.536	13.706	14.676
14382	ENSG00000100146	SOX10	-1.2	0.0566382	0.1395125	2.502	0.182	2.308	2.668	3.170	0.618	2.744	3.878
14383	ENSG00000176887	SOX11	-1.1	0.0050237	0.0212202	44.037	1.944	41.792	45.179	48.916	1.012	47.775	49.705
14384	ENSG00000168875	SOX14	3.4	0.011824	0.041697	0.456	0.109	0.362	0.575	0.132	0.097	0.076	0.244
14385	ENSG00000181449	SOX2	-1.2	2.063E-07	5.086E-06	315.969	10.843	308.997	328.461	385.110	8.768	375.003	390.687
14386	ENSG00000242808	SOX2-OT	1.4	0.010505	0.0379417	0.815	0.137	0.684	0.958	0.606	0.090	0.510	0.689
14387	ENSG00000125285	SOX21	-2.7	4.688E-10	2.493E-08	2.700	0.768	2.092	3.563	7.428	1.330	6.188	8.833
14388	ENSG00000227640	SOX21-AS1	-2.1	7.494E-07	1.51E-05	2.104	0.348	1.707	2.357	4.554	0.272	4.377	4.866
14389	ENSG00000124766	SOX4	1.1	0.0382148	0.1031975	156.353	4.956	151.278	161.180	150.582	9.817	139.271	156.877
14390	ENSG00000134532	SOX5	1.6	0.0037135	0.0167038	0.656	0.087	0.565	0.738	0.411	0.119	0.319	0.546
14391	ENSG00000005513	SOX8	1.6	2.803E-06	4.515E-05	5.971	0.342	5.597	6.267	3.790	0.840	2.943	4.623
14392	ENSG00000125398	SOX9	-1.4	8.618E-05	0.0008	6.841	0.806	6.003	7.610	9.561	0.616	9.076	10.254
14393	ENSG00000185591	SP1	-1.1	0.0060725	0.0245996	49.454	1.243	48.186	50.669	54.646	0.688	53.908	55.271

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14394	ENSG00000135899	SP110	1.6	0.0001082	0.0009619	2.185	0.524	1.628	2.669	1.354	0.327	1.021	1.674
14395	ENSG00000079263	SP140	3.3	6.738E-05	0.0006549	0.583	0.157	0.427	0.741	0.180	0.054	0.125	0.232
14396	ENSG00000185404	SP140L	1.3	0.0908996	0.199868	0.858	0.223	0.601	1.006	0.658	0.037	0.623	0.696
14397	ENSG00000167182	SP2	-1.2	0.0060423	0.0245009	7.849	0.176	7.715	8.048	9.650	0.965	8.892	10.737
14398	ENSG00000172845	SP3	-1.1	0.0302663	0.0868794	31.890	0.504	31.428	32.428	35.142	1.375	34.182	36.717
14399	ENSG00000204335	SP5	-17.6	0.0085432	0.0321015	0.000	0.000	0.000	0.000	0.151	0.151	0.000	0.302
14400	ENSG00000164651	SP8	1.2	0.0008609	0.0051782	14.610	0.851	13.700	15.387	12.191	0.492	11.654	12.620
14402	ENSG00000104450	SPAG1	1.5	0.0003916	0.0027482	2.949	0.587	2.543	3.622	1.954	0.441	1.475	2.344
14403	ENSG00000144451	SPAG16	1.2	0.0008489	0.0051185	7.523	0.233	7.318	7.777	6.331	0.614	5.682	6.903
14404	ENSG00000155761	SPAG17	-1.4	0.0999568	0.2132135	0.243	0.017	0.232	0.263	0.360	0.146	0.246	0.524
14405	ENSG00000076382	SPAG5	-1.2	1.1E-05	0.0001447	81.797	1.565	80.101	83.185	96.439	4.673	91.358	100.553
14406	ENSG00000091640	SPAG7	1.1	0.0110903	0.0396053	68.376	2.280	65.836	70.243	63.827	1.565	62.040	64.950
14407	ENSG00000008294	SPAG9	-1.1	0.0007944	0.0048432	32.634	1.700	31.446	34.582	37.315	2.108	34.882	38.600
14409	ENSG00000113140	SPARC	1.3	3.59E-12	3.389E-10	250.401	5.726	246.252	256.934	199.504	2.756	196.964	202.434
14410	ENSG00000152583	SPARCL1	1.5	0.0344598	0.095811	0.966	0.174	0.765	1.071	0.656	0.051	0.624	0.715
14411	ENSG00000021574	SPAST	-1.1	0.0361563	0.0992231	22.769	0.799	21.879	23.423	25.557	2.654	23.192	28.428
14412	ENSG00000182957	SPATA13	1.3	1.001E-06	1.905E-05	7.962	0.414	7.559	8.387	6.184	0.265	5.896	6.416
14413	ENSG00000163071	SPATA18	1.4	3.488E-05	0.0003785	7.134	0.647	6.548	7.829	5.298	0.124	5.201	5.438
14414	ENSG00000170469	SPATA24	-1.4	0.0034932	0.0159159	9.226	0.674	8.590	9.933	12.870	2.193	10.396	14.575
14416	ENSG00000158792	SPATA2L	1.4	0.0015501	0.0083168	6.763	0.071	6.722	6.845	5.017	0.533	4.505	5.569
14417	ENSG00000167523	SPATA33	1.3	0.0050905	0.0214433	2.560	0.287	2.256	2.826	1.947	0.309	1.606	2.207
14418	ENSG00000171763	SPATA5L1	1.1	0.0637533	0.1525984	8.453	0.936	7.374	9.055	7.540	0.352	7.154	7.842
14419	ENSG00000132122	SPATA6	1.4	5.176E-06	7.652E-05	6.616	0.383	6.221	6.986	4.815	0.331	4.445	5.083
14420	ENSG00000160284	SPATC1L	-1.1	0.1156979	0.2365569	7.250	0.596	6.582	7.727	8.398	0.226	8.226	8.654
14421	ENSG00000196141	SPATS2L	1.4	3.27E-12	3.12E-10	36.563	3.096	34.131	40.048	26.703	1.431	25.295	28.157
14422	ENSG00000118363	SPCS2	1.1	0.0110402	0.0394681	36.015	0.680	35.275	36.614	32.932	2.263	30.431	34.838
14423	ENSG00000228589	SPCS2P4	1.1	0.0099287	0.0362453	152.633	7.952	145.679	161.303	140.181	3.075	138.271	143.729
14424	ENSG00000129128	SPCS3	1.2	2.201E-05	0.0002582	71.796	2.794	70.120	75.022	63.458	2.165	61.154	65.450
14426	ENSG00000040275	SPDL1	-1.1	0.0490127	0.1252003	34.484	2.123	32.591	36.780	38.012	0.786	37.160	38.709
14427	ENSG00000128487	SPECC1	-1.2	9.829E-07	1.876E-05	15.849	1.018	14.674	16.458	19.587	0.234	19.333	19.793
14428	ENSG00000072195	SPEG	-1.2	0.0011935	0.0067761	5.059	0.128	4.971	5.205	6.050	0.350	5.647	6.261
14429	ENSG00000104133	SPG11	1.2	5.761E-06	8.393E-05	21.630	1.015	20.540	22.549	18.441	1.197	17.529	19.797
14430	ENSG00000133104	SPG20	1.2	1.028E-05	0.0001364	36.993	1.391	35.456	38.167	32.118	1.229	31.246	33.524
14431	ENSG00000090487	SPG21	1.3	7.545E-08	2.12E-06	61.672	2.207	59.160	63.297	50.246	0.522	49.848	50.838
14432	ENSG00000176170	SPHK1	1.3	0.059867	0.1454367	2.796	0.169	2.608	2.935	2.279	0.390	1.829	2.515
14434	ENSG00000063176	SPHK2	-1.1	0.0174181	0.056616	12.732	1.298	11.679	14.182	14.871	1.822	13.109	16.747
14435	ENSG00000269404	SPIB	1.9	0.0003272	0.0023677	1.384	0.147	1.288	1.553	0.757	0.222	0.544	0.986
14436	ENSG00000164808	SPIDR	1.1	0.0153855	0.0515045	20.120	0.190	20.005	20.339	18.828	0.891	18.008	19.776
14438	ENSG00000106723	SPIN1	1.1	0.0169978	0.0555881	106.896	0.711	106.182	107.603	102.358	3.717	99.235	106.469
14440	ENSG00000204271	SPIN3	1.1	0.0286261	0.0832307	5.461	0.116	5.372	5.592	5.005	0.059	4.952	5.068
14442	ENSG00000134278	SPIRE1	1.2	0.0042439	0.0186048	8.012	0.112	7.892	8.115	6.988	0.081	6.919	7.077
14443	ENSG00000204991	SPIRE2	-1.2	0.0026836	0.012905	3.294	0.062	3.242	3.363	4.125	0.321	3.756	4.343
14445	ENSG00000197471	SPN	1.6	0.0006618	0.0041924	1.334	0.037	1.292	1.361	0.879	0.044	0.842	0.927

	A	B	C	D	E	F	G	H	I	J	K	L	M
14446	ENSG00000183018	SPNS2	-1.3	0.0460607	0.1192081	1.502	0.247	1.221	1.689	2.070	0.115	1.964	2.192
14447	ENSG00000152377	SPOCK1	-1.1	0.028074	0.0820772	7.078	0.382	6.692	7.456	8.217	0.824	7.588	9.150
14448	ENSG00000107742	SPOCK2	-1.3	0.0195582	0.0618873	1.290	0.261	0.989	1.452	1.736	0.155	1.601	1.905
14449	ENSG00000198917	SPOUT1	1.1	0.006122	0.0247511	32.447	1.556	30.763	33.832	29.704	1.621	27.833	30.668
14452	ENSG00000118785	SPP1	1.9	9.533E-10	4.7E-08	36.996	6.391	30.811	43.575	20.188	0.827	19.270	20.876
14453	ENSG00000138600	SPPL2A	1.3	2.31E-05	0.0002691	9.534	0.878	8.690	10.442	7.603	0.249	7.387	7.876
14454	ENSG00000005206	SPPL2B	-1.2	0.0033133	0.0152567	9.750	0.125	9.608	9.842	11.696	1.217	10.411	12.832
14455	ENSG00000157837	SPPL3	1.2	1.315E-05	0.0001685	19.505	0.580	18.980	20.128	16.510	0.505	16.008	17.018
14456	ENSG00000116096	SPR	1.2	0.0358349	0.0985649	11.712	0.669	11.280	12.483	9.920	1.559	8.185	11.202
14457	ENSG00000166068	SPRED1	1.3	5.591E-07	1.183E-05	28.482	1.372	27.366	30.013	23.052	1.651	21.208	24.393
14458	ENSG00000188766	SPRED3	1.3	0.0391112	0.1050815	2.215	0.231	1.964	2.419	1.784	0.399	1.338	2.107
14459	ENSG00000164056	SPRY1	-1.1	0.0761173	0.1743933	17.032	0.439	16.664	17.519	18.949	0.660	18.193	19.413
14460	ENSG00000136158	SPRY2	1.1	0.0058299	0.0238743	32.162	0.466	31.778	32.680	29.329	0.677	28.895	30.109
14461	ENSG00000168939	SPRY3	-1.2	0.0126339	0.0439488	3.411	0.332	3.029	3.620	4.119	0.338	3.904	4.509
14462	ENSG00000187678	SPRY4	1.4	1.82E-14	3.12E-12	93.982	4.421	88.960	97.289	66.273	3.418	62.617	69.391
14463	ENSG00000167778	SPRYD3	-1.2	0.0434182	0.1139029	6.997	0.210	6.795	7.215	8.284	1.015	7.544	9.441
14464	ENSG0000011671	SPSB2	1.2	0.0007052	0.0043993	26.062	1.825	24.688	28.132	21.924	1.418	20.584	23.409
14465	ENSG00000197694	SPTAN1	1.1	0.0518325	0.1305305	62.220	1.862	60.100	63.591	60.227	2.703	57.387	62.768
14466	ENSG00000070182	SPTB	1.3	0.0317175	0.090203	1.712	0.348	1.329	2.010	1.382	0.169	1.277	1.577
14467	ENSG00000115306	SPTBN1	-1.1	0.0001361	0.0011605	56.557	0.990	55.510	57.480	63.872	1.739	61.933	65.293
14468	ENSG00000173898	SPTBN2	1.2	0.0003751	0.0026513	15.511	1.288	14.561	16.978	13.449	0.864	12.475	14.122
14469	ENSG00000137877	SPTBN5	-1.3	0.0604687	0.1465252	0.628	0.065	0.575	0.700	0.806	0.167	0.649	0.982
14470	ENSG00000090054	SPTLC1	1.1	0.0479216	0.1229516	59.097	1.693	57.549	60.904	56.707	1.762	55.354	58.699
14471	ENSG00000230397	SPTLC1P1	1.3	0.0729265	0.1691219	30.281	7.971	21.109	35.537	24.427	2.928	22.393	27.783
14472	ENSG00000100596	SPTLC2	-1.1	0.0190422	0.0606519	23.012	0.992	21.998	23.980	25.528	1.249	24.103	26.430
14473	ENSG00000196542	SPTSSB	-1.2	0.0076206	0.0294601	12.987	0.622	12.269	13.367	15.361	0.311	15.095	15.703
14474	ENSG00000134548	SPX	2.5	2.823E-05	0.0003177	1.278	0.240	1.064	1.538	0.522	0.021	0.509	0.547
14475	ENSG00000104549	SQLE	1.5	7.25E-17	2.11E-14	109.606	4.165	104.826	112.457	75.239	2.108	73.985	77.673
14476	ENSG00000161011	SQSTM1	1.7	4.25E-17	1.41E-14	51.503	1.782	49.616	53.159	31.883	2.069	30.131	34.165
14477	ENSG00000068784	SRBD1	1.2	9.153E-05	0.0008418	22.266	0.712	21.465	22.828	18.932	1.500	17.360	20.347
14478	ENSG00000277363	SRCIN1	-1.3	0.0869327	0.1930661	0.916	0.346	0.545	1.229	1.216	0.201	0.995	1.389
14479	ENSG00000145545	SRD5A1	1.2	0.0011748	0.0066923	13.497	0.876	12.523	14.219	11.719	1.050	10.513	12.427
14480	ENSG00000072310	SREBF1	1.6	5.194E-05	0.0005279	16.979	1.804	14.912	18.233	10.551	2.190	8.625	12.933
14481	ENSG00000198911	SREBF2	1.1	0.0013813	0.0075752	127.696	7.346	119.237	132.471	117.049	9.154	109.690	127.301
14482	ENSG00000153914	SREK1	1.1	0.037297	0.1013993	10.904	0.429	10.410	11.178	10.328	0.227	10.072	10.504
14483	ENSG00000112658	SRF	1.1	0.0092096	0.0340333	68.938	6.299	61.665	72.684	61.396	6.072	54.588	66.252
14484	ENSG00000196935	SRGAP1	-1.2	0.0070471	0.0276601	1.377	0.059	1.309	1.415	1.670	0.034	1.632	1.698
14486	ENSG00000266028	SRGAP2	-1.1	0.0730419	0.1692965	10.283	0.119	10.189	10.417	11.213	0.745	10.544	12.016
14487	ENSG00000196220	SRGAP3	-1.6	2.059E-07	5.084E-06	1.033	0.080	0.960	1.118	1.666	0.042	1.623	1.707
14488	ENSG00000116649	SRM	-1.2	0.0017462	0.0091605	62.144	2.522	60.209	64.996	73.420	5.372	69.877	79.600
14489	ENSG00000248508	SRP14-AS1	-1.3	0.0407721	0.1085779	3.232	0.707	2.490	3.898	4.172	0.201	3.997	4.391

	A	B	C	D	E	F	G	H	I	J	K	L	M
14490	ENSG00000258704	SRP54-AS1	-1.7	0.0066409	0.0263965	1.548	0.193	1.351	1.736	2.777	0.200	2.554	2.942
14491	ENSG00000174780	SRP72	-1	0.1223591	0.2465109	92.774	0.876	91.956	93.699	98.872	2.062	97.247	101.191
14492	ENSG00000180581	SRP9P1	1.1	0.019846	0.0626224	1056.729	29.718	1025.780	1085.039	1002.685	26.956	983.738	1033.545
14493	ENSG00000135250	SRPK2	-1.1	0.0028329	0.0134437	30.611	0.667	30.149	31.375	34.806	2.342	33.186	37.491
14494	ENSG00000101955	SRPX	1.3	0.003377	0.0154884	10.063	0.328	9.747	10.403	7.962	0.993	7.005	8.987
14495	ENSG00000133226	SRRM1	-1.1	0.000127	0.0011005	70.568	2.142	68.273	72.513	81.386	1.262	80.596	82.841
14496	ENSG00000167978	SRRM2	-1.1	5.794E-05	0.0005788	181.350	9.317	170.894	188.775	212.070	8.442	204.765	221.312
14498	ENSG00000177679	SRRM3	-1.2	0.0005432	0.0035804	6.558	0.128	6.416	6.664	8.239	0.946	7.503	9.307
14499	ENSG00000087087	SRRT	1.2	0.0001098	0.000973	50.651	2.493	48.207	53.190	43.666	3.827	39.248	45.952
14500	ENSG00000136450	SRSF1	-1.1	3.62E-05	0.0003902	349.884	1.466	348.689	351.520	400.163	5.914	394.107	405.925
14501	ENSG00000188529	SRSF10	1.1	0.000347	0.0024858	64.671	1.416	63.644	66.287	59.149	2.427	57.356	61.911
14502	ENSG00000116754	SRSF11	-1.1	0.003632	0.0164288	109.266	1.501	107.576	110.443	120.719	3.224	118.836	124.441
14503	ENSG00000161547	SRSF2	-1.1	0.0216718	0.067149	223.048	2.709	220.046	225.309	242.238	7.479	235.174	250.072
14504	ENSG00000112081	SRSF3	1.8	6.603E-06	9.369E-05	239.792	9.112	229.878	247.800	137.863	20.342	118.049	158.696
14505	ENSG00000116350	SRSF4	-1.1	0.0063696	0.0255139	41.754	1.282	40.818	43.216	46.455	1.392	44.863	47.441
14507	ENSG00000115875	SRSF7	2.1	1.091E-06	2.057E-05	203.892	16.434	185.204	216.093	100.215	14.663	87.342	116.177
14508	ENSG00000263465	SRSF8	1.1	0.0189714	0.0604717	11.354	1.064	10.630	12.576	10.100	0.509	9.513	10.410
14510	ENSG00000111786	SRSF9	-1.1	0.0758032	0.1738858	104.243	1.958	102.235	106.148	112.673	9.148	106.132	123.127
14511	ENSG00000141380	SS18	1.1	0.0017348	0.0091151	63.205	3.600	60.986	67.358	57.927	2.288	55.315	59.577
14512	ENSG00000184402	SS18L1	-1.3	1.291E-07	3.407E-06	20.848	1.212	19.664	22.086	27.888	1.690	26.188	29.567
14513	ENSG00000008324	SS18L2	-1.1	0.0364387	0.0998033	49.100	2.292	46.486	50.764	55.533	2.025	53.242	57.086
14514	ENSG00000145687	SSBP2	-1.1	0.0049438	0.0209667	8.739	0.516	8.191	9.216	10.162	0.577	9.730	10.818
14515	ENSG00000179954	SSC5D	-1.5	0.0423351	0.1116851	0.385	0.053	0.343	0.444	0.577	0.166	0.388	0.701
14516	ENSG00000138434	SSFA2	1.2	0.0088463	0.0330062	6.194	0.446	5.686	6.522	5.441	0.151	5.267	5.539
14517	ENSG00000084112	SSH1	1.3	2.349E-06	3.891E-05	8.500	0.291	8.189	8.765	6.905	0.401	6.442	7.144
14518	ENSG00000141298	SSH2	1.2	0.0003011	0.0022173	5.581	0.155	5.422	5.731	4.675	0.317	4.381	5.012
14519	ENSG00000176101	SSNA1	-1.1	0.0424673	0.1118768	64.696	1.582	63.526	66.495	72.513	2.650	70.112	75.357
14520	ENSG00000123096	SSPN	1.4	0.0026769	0.0128802	2.085	0.271	1.775	2.272	1.542	0.190	1.366	1.743
14521	ENSG00000197558	SSPO	-1.4	0.0285474	0.0830734	0.266	0.068	0.223	0.345	0.371	0.035	0.347	0.411
14522	ENSG00000124783	SSR1	-1.1	0.0015735	0.0084138	33.139	1.035	31.946	33.799	37.521	2.203	35.961	40.042
14523	ENSG00000163479	SSR2	-1.1	0.0002473	0.0018935	42.884	0.542	42.404	43.471	49.664	1.864	47.642	51.313
14524	ENSG00000149136	SSRP1	-1.1	0.013609	0.0466683	131.954	6.826	125.228	138.877	144.512	3.157	140.916	146.827
14525	ENSG00000173465	SSSCA1	-1.2	0.0131284	0.0453793	22.718	0.491	22.259	23.235	26.837	0.681	26.064	27.344
14526	ENSG00000180616	SSTR2	-1.7	0.0004008	0.0028004	0.654	0.030	0.621	0.677	1.125	0.214	0.893	1.315
14527	ENSG00000117155	SSX2IP	1.1	0.1122902	0.2317466	13.597	0.258	13.382	13.883	12.976	1.234	12.134	14.392
14528	ENSG00000225259	ST13P6	1.1	0.012634	0.0439488	121.772	3.482	118.189	125.143	112.248	5.891	106.882	118.552
14529	ENSG00000149418	ST14	1.4	2.335E-05	0.0002712	14.541	0.529	13.984	15.036	10.952	1.204	9.745	12.152
14530	ENSG00000008513	ST3GAL1	1.5	0.0004989	0.0033499	2.965	0.464	2.436	3.300	2.056	0.483	1.512	2.437
14532	ENSG00000157350	ST3GAL2	1.1	0.0874756	0.1939024	10.064	0.130	9.940	10.198	9.509	0.842	8.632	10.312
14533	ENSG00000126091	ST3GAL3	1.2	0.0371999	0.1011839	5.788	0.458	5.265	6.114	5.030	0.573	4.369	5.371
14534	ENSG00000110080	ST3GAL4	-1.2	0.0132606	0.0457707	5.020	0.071	4.938	5.063	6.213	0.759	5.356	6.803
14535	ENSG00000144057	ST6GAL2	-1.2	0.0007306	0.0045244	5.343	0.132	5.233	5.489	6.656	0.470	6.322	7.193

	A	B	C	D	E	F	G	H	I	J	K	L	M
14536	ENSG00000160408	ST6GALNA C6	-1.1	0.0838747	0.1882644	14.467	1.035	13.410	15.478	16.137	1.715	14.429	17.859
14537	ENSG00000007341	ST7L	-1.1	0.0360482	0.0989905	4.272	0.276	4.023	4.569	4.987	0.420	4.647	5.457
14538	ENSG00000177511	ST8SIA3	1.1	0.1165833	0.2379459	3.298	0.205	3.095	3.506	3.041	0.214	2.812	3.236
14539	ENSG00000101638	ST8SIA5	-2.5	1.29E-05	0.0001657	0.131	0.009	0.123	0.140	0.334	0.038	0.295	0.370
14540	ENSG0000010327	STAB1	-1.4	0.0697723	0.1634121	0.387	0.079	0.307	0.464	0.539	0.102	0.443	0.646
14541	ENSG00000185482	STAC3	1.4	0.012426	0.0433589	3.534	0.375	3.101	3.767	2.524	0.393	2.070	2.761
14542	ENSG00000118007	STAG1	-1.1	0.0339132	0.0947118	10.176	0.328	9.829	10.482	11.423	0.349	11.065	11.761
14544	ENSG00000101972	STAG2	-1.1	0.0018421	0.0095376	83.649	0.900	82.618	84.273	93.027	1.251	92.265	94.471
14545	ENSG00000066923	STAG3	-1.2	0.0401651	0.1073129	3.177	0.459	2.659	3.532	3.763	0.232	3.592	4.027
14546	ENSG00000106610	STAG3L4	1.2	0.006972	0.0274377	14.698	0.695	13.912	15.231	12.504	1.248	11.581	13.924
14547	ENSG00000124356	STAMP	1.2	1.278E-06	2.328E-05	20.916	0.354	20.522	21.207	17.241	1.295	15.913	18.500
14548	ENSG00000138134	STAMPBPL1	1.2	0.0913059	0.2004746	2.507	0.151	2.360	2.663	2.184	0.103	2.078	2.284
14549	ENSG00000147465	STAR	-1.3	0.0892346	0.1967989	1.075	0.222	0.862	1.305	1.436	0.229	1.246	1.690
14550	ENSG00000214530	STARD10	-1.2	0.0062074	0.0250203	9.932	0.962	9.146	11.004	12.249	1.284	10.768	13.043
14552	ENSG00000133121	STARD13	2	1.748E-08	6.025E-07	2.084	0.090	1.989	2.167	1.071	0.073	0.988	1.129
14554	ENSG00000010270	STARD3NL	1.2	0.0001806	0.0014717	26.504	0.281	26.215	26.775	23.044	1.282	21.654	24.181
14555	ENSG00000164211	STARD4	1.6	1.63E-13	2.11E-11	83.246	2.149	81.832	85.719	51.867	3.300	48.251	54.714
14556	ENSG00000130052	STARD8	-1.1	0.1194556	0.2420744	2.870	0.211	2.630	3.029	3.367	0.514	2.878	3.903
14557	ENSG00000115415	STAT1	1.1	0.0200534	0.0631588	66.692	1.957	64.487	68.224	63.455	2.865	60.165	65.398
14559	ENSG00000170581	STAT2	-1.1	0.0880603	0.1948665	17.522	0.759	16.808	18.320	19.248	1.137	18.522	20.558
14560	ENSG00000168610	STAT3	-1.1	0.0120521	0.0424041	30.387	1.151	29.070	31.201	33.672	0.971	33.010	34.787
14562	ENSG00000173757	STAT5B	1.1	0.0074847	0.0290275	43.022	1.706	41.142	44.474	40.278	0.853	39.437	41.144
14563	ENSG00000166888	STAT6	1.2	3.295E-06	5.17E-05	24.497	0.286	24.293	24.823	20.697	0.591	20.043	21.195
14564	ENSG00000118804	STBD1	1.4	0.1091109	0.2271532	1.054	0.167	0.863	1.176	0.778	0.084	0.681	0.830
14565	ENSG00000159167	STC1	-8.6	6.648E-08	1.899E-06	5.604	1.197	4.629	6.939	49.252	9.234	39.864	58.324
14568	ENSG00000113739	STC2	1.8	1.38E-18	6.66E-16	54.081	4.146	49.801	58.078	31.414	1.373	29.854	32.435
14569	ENSG00000164647	STEAP1	1.2	0.0139518	0.0476508	11.502	0.647	10.774	12.010	9.506	1.252	8.229	10.732
14570	ENSG00000105889	STEAP1B	1.6	5.681E-05	0.0005689	5.255	0.107	5.135	5.339	3.398	0.282	3.073	3.567
14571	ENSG00000157214	STEAP2	1.1	0.0321864	0.0911669	20.999	0.257	20.838	21.295	19.764	1.908	18.554	21.964
14572	ENSG00000115107	STEAP3	1.1	0.0558343	0.1381806	18.884	1.265	17.844	20.292	17.554	0.722	17.021	18.376
14574	ENSG00000168439	STIP1	-1.1	1.345E-05	0.0001714	153.134	3.150	151.229	156.770	177.314	1.645	175.424	178.426
14575	ENSG00000072786	STK10	1.1	0.0068138	0.0268816	7.078	0.145	6.945	7.234	6.305	0.389	6.078	6.754
14576	ENSG00000118046	STK11	-1.2	4.668E-05	0.000485	20.418	1.210	19.505	21.790	24.723	1.844	23.208	26.776
14577	ENSG00000115694	STK25	-1.1	0.0224668	0.069009	37.579	0.724	36.779	38.189	41.258	1.601	39.719	42.915
14578	ENSG00000134602	STK26	-1.1	0.0405411	0.1081331	270.172	8.912	260.725	278.430	292.798	6.349	288.177	300.038
14579	ENSG00000104375	STK3	-1.2	0.0002666	0.002014	6.630	0.315	6.269	6.850	8.333	0.695	7.711	9.083
14580	ENSG00000165752	STK32C	-1.2	0.0264148	0.0781344	9.772	1.154	8.626	10.933	11.545	1.207	10.269	12.668
14581	ENSG00000130413	STK33	1.2	0.0004043	0.0028141	7.825	0.508	7.519	8.411	6.478	0.125	6.391	6.622
14582	ENSG00000163482	STK36	1.2	0.0007582	0.0046597	10.886	0.429	10.428	11.278	9.117	0.619	8.476	9.711

	A	B	C	D	E	F	G	H	I	J	K	L	M
14583	ENSG00000112079	STK38	-1.1	0.0464674	0.1200952	22.919	0.509	22.460	23.466	25.640	1.946	23.495	27.291
14584	ENSG00000211455	STK38L	1.1	0.0828419	0.1863915	30.081	1.632	28.861	31.935	28.965	0.585	28.383	29.552
14585	ENSG00000196182	STK40	1.4	7.651E-08	2.146E-06	13.691	0.982	12.704	14.668	9.719	1.179	9.001	11.079
14586	ENSG00000104435	STMN2	-1.6	0.0583543	0.1426117	0.877	0.373	0.505	1.250	1.425	0.304	1.183	1.766
14588	ENSG00000107960	STN1	-1.2	0.0166583	0.0547603	30.326	2.983	26.953	32.616	35.768	1.840	33.659	37.052
14589	ENSG00000148175	STOM	1.2	0.0022247	0.0110244	33.244	2.728	30.148	35.295	29.332	0.979	28.218	30.058
14590	ENSG00000243244	STON1	-1.1	0.1038577	0.2191571	13.094	0.974	12.047	13.973	14.395	0.633	13.739	15.002
14593	ENSG00000137868	STRA6	-1.6	3.965E-06	6.063E-05	1.702	0.089	1.632	1.802	2.780	0.143	2.626	2.908
14594	ENSG00000082146	STRADB	1.1	0.0209194	0.0653982	31.715	2.543	28.797	33.455	29.116	0.859	28.141	29.762
14595	ENSG00000023734	STRAP	-1.1	0.0029686	0.0139622	284.292	8.124	275.223	290.902	315.624	5.149	311.688	321.451
14596	ENSG00000115808	STRN	1.1	0.0014139	0.0077189	29.923	0.061	29.874	29.991	27.573	0.495	27.189	28.131
14597	ENSG00000196792	STRN3	-1.2	0.0006009	0.0038845	22.219	1.027	21.335	23.345	26.265	0.833	25.664	27.216
14598	ENSG00000101846	STS	1.4	0.0130636	0.0452105	1.620	0.329	1.371	1.992	1.182	0.149	1.024	1.319
14599	ENSG00000134910	STT3A	1.1	0.0235175	0.0715766	52.457	0.907	51.704	53.464	50.197	1.412	49.282	51.823
14600	ENSG00000163527	STT3B	-1.1	0.0212664	0.0661748	114.337	4.375	109.628	118.275	124.823	4.556	121.303	129.968
14601	ENSG00000203685	STUM	-1.2	0.0555708	0.1376492	1.223	0.126	1.080	1.319	1.563	0.075	1.515	1.649
14602	ENSG00000117758	STX12	-1.1	0.0841427	0.1885978	13.905	0.946	12.869	14.720	15.800	2.333	13.123	17.400
14604	ENSG00000124222	STX16	-1.1	0.0405842	0.108214	60.459	2.547	58.403	63.309	65.800	1.565	64.198	67.324
14605	ENSG00000254995	STX16- NPEPL1	-1.3	0.0526545	0.1322236	2.022	0.165	1.875	2.201	2.622	0.239	2.472	2.897
14606	ENSG00000136874	STX17	1.2	0.0058775	0.0240229	19.222	1.315	17.786	20.368	17.041	1.252	15.607	17.921
14607	ENSG00000168818	STX18	1.2	0.0046476	0.0199904	9.378	0.694	8.648	10.030	8.052	0.386	7.762	8.490
14608	ENSG00000106089	STX1A	-2	2.59E-07	6.187E-06	2.487	0.319	2.160	2.799	5.078	1.299	3.701	6.281
14609	ENSG00000111450	STX2	-1.3	2.663E-05	0.0003018	27.992	1.860	26.905	30.140	36.164	4.488	31.452	40.388
14610	ENSG00000166900	STX3	1.1	0.000133	0.0011409	81.661	3.030	78.848	84.870	73.285	4.841	68.081	77.655
14611	ENSG00000162236	STX5	-1.1	0.0109288	0.0391734	24.474	1.518	22.840	25.839	28.691	1.000	27.728	29.725
14612	ENSG00000079950	STX7	1.1	0.0012017	0.0068182	12.720	0.187	12.528	12.902	11.615	0.374	11.203	11.932
14613	ENSG00000076944	STXBP2	1.2	0.0142977	0.0486457	7.514	0.338	7.155	7.824	6.643	0.444	6.252	7.126
14614	ENSG00000166263	STXBP4	-1.3	5.834E-05	0.0005815	2.166	0.082	2.102	2.258	2.894	0.294	2.555	3.069
14615	ENSG00000145087	STXBP5L	1.3	0.0006062	0.003915	2.257	0.237	2.016	2.491	1.723	0.105	1.626	1.834
14616	ENSG00000198252	STYX	1.1	0.0082313	0.0312776	33.803	0.672	33.077	34.403	31.114	1.340	29.596	32.133
14617	ENSG00000113387	SUB1	1.1	6.972E-05	0.0006734	72.192	1.440	71.218	73.846	65.060	2.524	62.164	66.790
14618	ENSG00000163541	SUCLG1	1.1	0.0871173	0.1933616	24.477	0.672	23.707	24.940	23.239	1.608	21.727	24.929
14619	ENSG00000241316	SUCLG2- AS1	1.5	0.0338107	0.0945034	1.400	0.123	1.267	1.510	0.974	0.310	0.661	1.281
14621	ENSG00000094975	SUCO	1.1	0.0004638	0.0031452	36.592	1.206	35.255	37.599	33.196	0.590	32.520	33.602
14622	ENSG00000107882	SUFU	-1.2	0.0059902	0.0243365	7.704	0.309	7.463	8.051	9.092	0.264	8.817	9.343
14623	ENSG00000175600	SUGCT	1.2	0.0760102	0.1741952	3.561	0.457	3.101	4.015	2.926	0.720	2.120	3.504
14624	ENSG00000105705	SUGP1	-1.1	0.0549345	0.1365732	15.426	0.382	15.160	15.864	17.155	0.752	16.397	17.900
14625	ENSG00000064607	SUGP2	-1.1	2.55E-05	0.000292	68.123	1.858	66.325	70.036	79.648	2.887	76.384	81.867
14626	ENSG00000165416	SUGT1	-1.2	4.392E-05	0.0004599	14.022	0.698	13.249	14.606	16.662	0.397	16.244	17.034
14627	ENSG00000137573	SULF1	-2.7	5.59E-17	1.69E-14	2.048	0.197	1.838	2.229	5.576	0.201	5.355	5.747
14628	ENSG00000196562	SULF2	1.3	3.311E-07	7.629E-06	16.942	0.683	16.467	17.725	13.013	0.249	12.735	13.215

	A	B	C	D	E	F	G	H	I	J	K	L	M
14629	ENSG00000196502	SULT1A1	1.3	0.0037547	0.0168579	2.128	0.190	1.927	2.305	1.652	0.226	1.449	1.896
14630	ENSG00000198203	SULT1C2	1.5	4.042E-05	0.0004299	3.032	0.339	2.661	3.325	2.114	0.253	1.825	2.293
14632	ENSG00000198075	SULT1C4	1.2	0.1030814	0.2178997	3.853	0.328	3.650	4.231	3.294	0.290	3.052	3.616
14633	ENSG00000144455	SUMF1	1.4	1.434E-05	0.0001804	5.346	0.415	4.962	5.786	3.990	0.049	3.937	4.033
14634	ENSG00000188612	SUMO2	-1.1	0.0005743	0.003746	172.094	6.427	165.432	178.258	196.282	5.188	193.169	202.272
14635	ENSG00000235238	SUMO2P1	-1.1	0.0436775	0.1144588	442.830	12.862	433.620	457.525	490.188	24.111	475.734	518.022
14636	ENSG00000164828	SUN1	-1.1	0.0001054	0.000943	29.127	0.857	28.445	30.089	33.524	0.589	32.898	34.067
14637	ENSG00000100242	SUN2	1.2	0.0054095	0.0224409	14.502	0.277	14.281	14.812	12.794	1.424	11.908	14.437
14638	ENSG00000092201	SUPT16H	1.1	0.0014062	0.007687	163.924	3.400	160.673	167.455	153.567	7.673	146.840	161.923
14639	ENSG00000196284	SUPT3H	1.2	0.001179	0.006711	16.954	1.051	15.766	17.762	14.491	0.464	14.003	14.927
14640	ENSG00000196235	SUPT5H	-1.2	1.583E-06	2.78E-05	24.571	0.435	24.280	25.072	30.015	1.498	29.100	31.743
14641	ENSG00000148296	SURF6	-1.1	0.013504	0.0464026	20.245	0.721	19.710	21.065	22.952	1.006	22.259	24.106
14642	ENSG00000099994	SUSD2	-1.2	0.0932552	0.2030699	1.571	0.168	1.454	1.763	2.008	0.313	1.647	2.213
14643	ENSG00000157303	SUSD3	-1.3	0.0112747	0.0401365	8.919	1.738	7.486	10.852	12.202	2.265	9.960	14.488
14644	ENSG00000173705	SUSD5	1.4	0.0017384	0.009128	2.989	0.576	2.418	3.570	2.104	0.384	1.833	2.543
14645	ENSG00000100647	SUSD6	-1.2	0.0056837	0.0233888	4.184	0.328	3.852	4.508	5.220	0.339	4.875	5.553
14646	ENSG00000101945	SUV39H1	-1.2	0.0025564	0.0123817	13.398	0.227	13.138	13.555	16.219	0.420	15.757	16.578
14647	ENSG00000264538	SUZ12P1	1.1	0.0134661	0.0463101	25.169	1.110	23.969	26.159	22.970	0.893	22.304	23.985
14648	ENSG00000159164	SV2A	1.2	5.854E-05	0.0005831	42.302	1.882	40.400	44.163	36.868	2.149	34.422	38.451
14649	ENSG00000165124	SVEP1	1.4	0.0155947	0.0520121	0.553	0.056	0.489	0.593	0.406	0.106	0.285	0.482
14650	ENSG00000197321	SVIL	1.3	4.432E-08	1.351E-06	14.091	0.970	13.314	15.178	10.909	0.814	10.198	11.796
14651	ENSG00000224597	SVIL-AS1	1.3	0.01526	0.0511378	2.284	0.240	2.010	2.455	1.764	0.268	1.555	2.067
14652	ENSG00000198168	SVIP	1.2	0.0008221	0.0049815	9.074	0.698	8.646	9.879	7.433	0.467	6.894	7.731
14653	ENSG00000133789	SWAP70	1.1	0.0486059	0.1242927	32.461	1.040	31.665	33.637	31.163	0.591	30.736	31.837
14654	ENSG00000175854	SWI5	-1.1	0.0393404	0.1056135	22.911	1.868	21.489	25.027	26.532	2.456	24.390	29.212
14655	ENSG00000205078	SYCE1L	1.4	0.0113966	0.0404685	6.232	0.912	5.226	7.002	4.563	0.238	4.293	4.744
14656	ENSG00000105137	SYDE1	1.1	0.1016358	0.2156796	6.477	0.629	5.958	7.177	5.869	0.096	5.759	5.935
14657	ENSG00000117614	SYF2	-1.2	0.0010995	0.006353	34.906	2.798	32.626	38.028	41.328	2.228	39.030	43.480
14658	ENSG00000125755	SYMPK	-1.1	0.1006395	0.2140218	25.534	1.166	24.214	26.426	27.475	0.573	26.843	27.960
14659	ENSG00000008056	SYN1	1.2	0.1195156	0.2421651	3.876	0.327	3.556	4.210	3.371	0.769	2.489	3.901
14660	ENSG00000185666	SYN3	-1.3	0.0073661	0.0286136	10.943	2.476	8.109	12.685	14.995	0.746	14.270	15.761
14661	ENSG00000183379	SYNDIG1L	-1.4	0.0026919	0.0129378	3.970	0.650	3.224	4.409	5.773	0.906	4.728	6.347
14662	ENSG00000054654	SYNE2	1.1	0.0222154	0.0683393	15.393	0.335	15.049	15.718	14.625	0.611	13.958	15.157
14663	ENSG00000181392	SYNE4	1.1	0.0250382	0.0750466	24.999	0.434	24.604	25.464	22.638	0.521	22.049	23.037
14664	ENSG00000197283	SYNGAP1	-1.3	4.83E-11	3.418E-09	16.995	0.401	16.536	17.278	23.024	0.797	22.122	23.633
14665	ENSG00000100321	SYNGR1	-1.2	0.0004135	0.0028664	9.396	0.381	9.067	9.814	11.640	0.831	11.089	12.596
14666	ENSG00000127561	SYNGR3	1.1	0.0201978	0.0635545	13.683	1.181	12.546	14.904	12.193	0.602	11.516	12.667
14667	ENSG00000159082	SYNJ1	-1.2	0.0837031	0.1879791	1.646	0.030	1.628	1.680	1.981	0.035	1.957	2.021
14668	ENSG00000078269	SYNJ2	1.7	2.569E-09	1.131E-07	4.773	0.581	4.377	5.440	2.839	0.437	2.461	3.318
14669	ENSG00000172403	SYNPO2	1.3	0.0352291	0.0973579	0.739	0.058	0.684	0.800	0.601	0.029	0.583	0.635
14671	ENSG00000008282	SYPL1	1.1	0.0283163	0.0825712	108.934	4.668	105.957	114.314	102.973	2.713	99.841	104.567
14672	ENSG00000110975	SYT10	-2	0.0010442	0.0060865	0.485	0.188	0.293	0.669	0.988	0.198	0.856	1.215
14674	ENSG00000019505	SYT13	-1.1	0.1166115	0.2379645	12.918	0.264	12.658	13.185	14.218	0.804	13.342	14.923

	A	B	C	D	E	F	G	H	I	J	K	L	M
14675	ENSG00000139973	SYT16	1.2	0.1234809	0.2481502	0.859	0.117	0.727	0.950	0.748	0.055	0.714	0.811
14676	ENSG00000103528	SYT17	1.5	2.508E-05	0.0002882	3.387	0.357	2.997	3.696	2.256	0.423	1.948	2.739
14677	ENSG00000143858	SYT2	-1.2	0.0064768	0.0258477	4.282	0.405	3.817	4.561	5.177	0.346	4.934	5.573
14678	ENSG00000213023	SYT3	-1.4	0.023465	0.0714684	1.721	0.468	1.266	2.201	2.394	0.400	2.090	2.847
14679	ENSG00000132872	SYT4	-1.5	0.0001669	0.001377	2.314	0.335	2.064	2.695	3.524	0.427	3.031	3.780
14680	ENSG00000011347	SYT7	-1.2	0.0036428	0.0164691	20.337	0.110	20.226	20.447	23.968	0.956	22.879	24.670
14681	ENSG00000137501	SYTL2	1.5	5.766E-06	8.393E-05	2.407	0.236	2.231	2.675	1.672	0.181	1.486	1.848
14682	ENSG00000162298	SYVN1	-1.1	0.0183448	0.0589682	8.515	0.589	7.970	9.140	9.964	0.822	9.212	10.842
14683	ENSG00000055070	SZRD1	-1.2	4.074E-05	0.0004323	56.146	0.395	55.736	56.525	66.347	3.816	61.995	69.123
14684	ENSG00000100324	TAB1	-1.2	0.0016002	0.008532	21.955	1.528	20.589	23.605	26.086	1.456	24.640	27.552
14685	ENSG00000055208	TAB2	-1.1	0.0052821	0.0220255	47.659	2.408	45.613	50.312	53.281	1.856	51.138	54.362
14686	ENSG00000157625	TAB3	-1.1	0.0646137	0.1541125	11.060	0.749	10.221	11.662	12.169	0.646	11.436	12.657
14687	ENSG00000006128	TAC1	2.6	6.616E-09	2.608E-07	5.518	0.526	4.930	5.943	2.133	0.449	1.856	2.651
14688	ENSG00000147526	TACC1	1.3	8.845E-05	0.0008171	5.704	0.223	5.447	5.847	4.619	0.404	4.298	5.073
14689	ENSG00000138162	TACC2	1.2	2.867E-05	0.0003214	4.208	0.307	3.902	4.516	3.454	0.048	3.404	3.498
14690	ENSG0000013810	TACC3	-1.3	1.803E-08	6.186E-07	72.389	3.817	69.928	76.785	96.563	8.559	87.285	104.151
14691	ENSG00000136463	TACO1	1.2	0.0054013	0.0224123	19.813	0.637	19.337	20.536	16.951	1.541	15.698	18.671
14692	ENSG00000276234	TADA2A	1.2	0.0294286	0.0849796	7.434	0.860	6.554	8.274	6.597	0.487	6.058	7.004
14693	ENSG00000173011	TADA2B	-1.1	0.034337	0.0955547	6.606	0.386	6.165	6.881	7.628	0.228	7.397	7.852
14694	ENSG00000171148	TADA3	1.1	0.0891595	0.1966813	41.682	1.592	40.137	43.316	39.947	2.921	36.578	41.778
14695	ENSG00000147133	TAF1	1.1	0.0169988	0.0555881	15.426	0.318	15.104	15.740	14.465	0.636	13.907	15.158
14696	ENSG00000064995	TAF11	-1.1	0.0780993	0.1780801	63.595	1.502	61.861	64.519	69.799	3.239	66.618	73.092
14698	ENSG00000197780	TAF13	-1.2	0.0094483	0.0347821	37.839	2.385	35.962	40.523	44.613	3.546	40.600	47.324
14699	ENSG00000270647	TAF15	1.1	0.0380714	0.1029775	104.446	7.209	96.123	108.686	100.259	2.509	98.313	103.091
14701	ENSG00000115750	TAF1B	-1.1	0.0174114	0.0566088	17.579	0.239	17.303	17.729	20.402	0.370	20.050	20.788
14702	ENSG00000130699	TAF4	-1.1	0.0182316	0.0587112	7.814	0.313	7.501	8.127	8.927	0.429	8.487	9.344
14703	ENSG00000148835	TAF5	-1.2	7.65E-05	0.0007254	17.782	0.448	17.360	18.252	22.513	1.314	21.004	23.402
14704	ENSG00000137413	TAF8	-1.2	0.0018002	0.0093598	7.574	0.353	7.303	7.974	8.995	0.134	8.842	9.095
14705	ENSG00000149591	TAGLN	1.9	1.257E-10	7.96E-09	186.590	12.047	176.941	200.092	98.268	4.049	93.766	101.615
14706	ENSG00000158710	TAGLN2	1.2	0.0013704	0.0075278	52.975	3.568	49.033	55.983	47.029	1.253	45.709	48.203
14708	ENSG00000144834	TAGLN3	1.3	0.0149258	0.0502433	6.533	0.343	6.322	6.929	5.141	0.390	4.890	5.591
14709	ENSG00000144559	TAMM41	1.5	2.664E-07	6.345E-06	7.934	0.376	7.501	8.179	5.441	0.371	5.014	5.675
14711	ENSG00000115183	TANC1	-1.1	0.0162248	0.0537216	4.724	0.025	4.695	4.742	5.457	0.265	5.300	5.763
14712	ENSG00000183597	TANGO2	1.1	0.0743295	0.1712951	4.682	0.523	4.186	5.228	4.219	0.074	4.140	4.288
14713	ENSG00000160551	TAOK1	-1.1	0.0003119	0.0022787	36.329	0.527	35.903	36.918	41.093	0.725	40.352	41.800
14714	ENSG00000149930	TAOK2	-1.1	0.0692623	0.1625186	12.035	0.197	11.810	12.176	13.332	1.536	12.252	15.091
14715	ENSG00000135090	TAOK3	-1.1	0.1238835	0.248841	3.021	0.480	2.734	3.576	3.436	0.167	3.285	3.616
14716	ENSG00000231925	TAPBP	1.1	0.0916533	0.2009505	17.279	0.929	16.207	17.861	16.280	0.200	16.058	16.448
14717	ENSG00000120948	TARDBP	-1.1	0.0235749	0.071674	108.082	2.165	106.540	110.557	117.918	0.995	116.925	118.916
14718	ENSG00000113407	TARS	1.1	1.908E-06	3.262E-05	185.125	4.223	180.642	189.028	165.281	4.832	159.882	169.200
14719	ENSG00000143374	TARS2	-1.2	0.0001471	0.0012375	27.962	0.423	27.668	28.446	33.634	1.321	32.829	35.159
14720	ENSG00000185418	TARSL2	1.1	0.0666914	0.1579764	10.123	0.453	9.620	10.500	9.216	1.264	7.864	10.367
14721	ENSG00000127364	TAS2R4	1.3	0.1191941	0.2416313	2.056	0.392	1.614	2.361	1.576	0.561	1.193	2.220

	A	B	C	D	E	F	G	H	I	J	K	L	M
14722	ENSG00000065882	TBC1D1	-1.1	0.0122734	0.0429949	41.278	0.264	41.008	41.535	45.772	2.858	42.556	48.022
14723	ENSG00000169221	TBC1D10B	-1.3	9.574E-05	0.0008724	7.822	0.898	7.228	8.855	10.215	0.871	9.574	11.206
14724	ENSG00000108239	TBC1D12	1.3	0.0064536	0.0257792	2.981	0.351	2.691	3.371	2.386	0.295	2.087	2.677
14725	ENSG00000107021	TBC1D13	1.2	0.003502	0.0159477	20.720	0.365	20.467	21.139	18.026	2.412	15.255	19.656
14726	ENSG00000167291	TBC1D16	1.1	0.0008408	0.0050807	36.968	1.463	35.279	37.830	33.658	2.840	31.974	36.938
14727	ENSG00000104946	TBC1D17	-1.1	0.1058105	0.2219678	14.472	0.520	13.909	14.936	15.948	0.891	15.383	16.975
14728	ENSG00000214946	TBC1D26	-1.4	0.1042378	0.2197319	0.479	0.095	0.389	0.579	0.669	0.159	0.556	0.851
14729	ENSG00000167202	TBC1D2B	-1.2	0.000113	0.000997	9.119	0.157	8.989	9.293	11.132	0.734	10.284	11.564
14730	ENSG00000146350	TBC1D32	-1.2	0.0473696	0.1218469	3.137	0.260	2.926	3.427	3.724	0.357	3.485	4.134
14731	ENSG00000136111	TBC1D4	-1.1	0.0026573	0.0128043	30.886	0.259	30.689	31.179	35.198	2.921	31.862	37.298
14732	ENSG00000131374	TBC1D5	-1.1	0.0083215	0.031514	13.883	0.466	13.459	14.382	15.658	1.092	14.980	16.918
14734	ENSG00000145979	TBC1D7	-1.1	0.0043308	0.018912	7.656	0.188	7.494	7.862	8.995	0.411	8.570	9.390
14735	ENSG00000133138	TBC1D8B	-1.1	0.0209751	0.0655006	4.759	0.209	4.538	4.953	5.563	0.334	5.310	5.943
14736	ENSG00000109436	TBC1D9	2	0.0018537	0.0095724	1.042	0.523	0.606	1.622	0.544	0.163	0.391	0.715
14737	ENSG00000171530	TBCA	1.1	0.0950123	0.2059919	99.719	3.728	96.915	103.950	96.842	3.296	93.722	100.289
14739	ENSG00000141556	TBCD	1.2	1.441E-05	0.0001808	28.292	1.652	26.410	29.502	24.677	1.478	23.137	26.085
14740	ENSG00000116957	TBCE	1.3	5.055E-08	1.508E-06	51.826	3.049	48.849	54.942	40.228	1.505	38.491	41.123
14741	ENSG00000154114	TBCEL	1.2	0.0053225	0.0221394	10.490	1.108	9.444	11.652	9.258	0.196	9.081	9.469
14742	ENSG00000145348	TBCK	1.2	0.0007751	0.0047395	8.578	0.555	7.937	8.916	7.423	0.371	6.995	7.659
14743	ENSG00000183735	TBK1	1.1	0.0692523	0.1625175	23.423	0.697	22.648	23.997	22.139	1.121	21.296	23.410
14744	ENSG00000198933	TBKBP1	1.1	0.0650719	0.1548996	10.658	0.704	10.114	11.453	9.761	0.325	9.436	10.086
14745	ENSG00000101849	TBL1X	-1.1	0.0991556	0.2120661	34.064	2.067	31.829	35.907	36.898	1.915	34.742	38.402
14746	ENSG00000177565	TBL1XR1	-1.2	6.948E-09	2.694E-07	26.404	0.942	25.389	27.250	33.727	1.137	32.591	34.865
14747	ENSG00000106638	TBL2	-1.3	7.459E-05	0.0007117	9.334	0.350	9.120	9.739	11.958	0.188	11.791	12.161
14748	ENSG00000183751	TBL3	-1.1	0.0465596	0.1202599	18.276	1.045	17.071	18.944	20.223	0.932	19.252	21.109
14749	ENSG00000112592	TBP	-1.1	0.108288	0.2259128	29.073	1.096	28.409	30.338	32.018	0.325	31.678	32.326
14750	ENSG00000154144	TBRG1	1.1	0.0267347	0.0788565	19.235	1.096	18.525	20.497	17.902	0.221	17.653	18.078
14751	ENSG00000136270	TBRG4	-1.2	2.014E-06	3.409E-05	41.661	1.146	40.359	42.515	50.461	1.588	48.867	52.043
14752	ENSG00000198420	TCAF1	-1.5	7.48E-14	1.08E-11	34.014	0.814	33.087	34.609	50.904	3.189	48.348	54.478
14753	ENSG00000223459	TCAF1P1	-1.4	1.73E-08	5.982E-07	22.665	0.512	22.239	23.233	32.880	1.260	31.467	33.886
14754	ENSG00000173991	TCAP	-1.6	0.0039989	0.0177608	1.558	0.314	1.252	1.879	2.592	0.487	2.122	3.094
14755	ENSG00000187735	TCEA1	1.6	5.33E-18	2.20E-15	180.458	5.987	173.623	184.778	113.709	6.303	109.609	120.966
14756	ENSG00000230409	TCEA1P2	1.6	2.68E-17	9.26E-15	668.173	44.058	623.388	711.466	417.461	22.699	395.456	440.795
14757	ENSG00000184905	TCEAL2	1.3	0.0001243	0.0010796	36.223	5.167	32.967	42.180	28.887	0.882	27.975	29.736
14758	ENSG00000133142	TCEAL4	1.3	2.786E-09	1.214E-07	110.288	4.914	104.791	114.253	87.878	2.726	85.829	90.972
14759	ENSG00000204065	TCEAL5	1.2	0.0067604	0.0267396	26.192	1.417	24.966	27.743	21.834	2.299	19.550	24.147
14761	ENSG00000204071	TCEAL6	2	0.0002945	0.002181	4.740	1.843	3.546	6.862	2.444	0.461	1.991	2.913
14762	ENSG00000180964	TCEAL8	1.1	0.0635571	0.1522189	208.403	4.414	203.837	212.647	200.410	4.865	194.795	203.351
14764	ENSG00000185222	TCEAL9	1.1	0.00629	0.0252872	199.957	5.801	195.757	206.576	185.068	7.006	178.742	192.598
14766	ENSG00000113649	TCERG1	-1.2	2.505E-07	6.011E-06	69.631	0.479	69.343	70.184	84.235	3.917	80.662	88.423
14767	ENSG00000176769	TCERG1L	-1.4	0.000282	0.0021091	2.766	0.157	2.585	2.864	3.912	0.512	3.523	4.491
14768	ENSG00000140262	TCF12	-1.1	0.0589766	0.1437279	32.048	0.661	31.323	32.617	34.579	0.580	34.124	35.233

	A	B	C	D	E	F	G	H	I	J	K	L	M
14769	ENSG00000125878	TCF15	-1.4	0.0185094	0.0592898	3.969	0.400	3.515	4.273	5.535	0.973	4.594	6.538
14771	ENSG00000137310	TCF19	1.3	0.0002983	0.0022021	10.426	0.978	9.306	11.108	8.122	0.126	8.033	8.266
14772	ENSG00000100207	TCF20	-1.1	0.0498976	0.1267525	30.994	0.875	29.986	31.562	33.687	0.633	33.002	34.251
14773	ENSG00000071564	TCF3	-1.1	0.0015026	0.0081018	80.063	1.633	78.315	81.548	90.836	4.562	86.600	95.666
14774	ENSG00000196628	TCF4	-1.2	5.25E-07	1.125E-05	11.315	0.513	10.942	11.901	14.001	0.565	13.628	14.651
14775	ENSG00000081059	TCF7	1.3	0.0005192	0.003456	2.625	0.254	2.333	2.783	2.004	0.239	1.728	2.160
14776	ENSG00000152284	TCF7L1	-1.3	6.96E-09	2.694E-07	46.692	1.595	44.855	47.729	62.152	2.113	59.812	63.920
14777	ENSG00000148737	TCF7L2	-1.1	0.0050063	0.0211677	29.590	2.722	26.544	31.783	33.661	0.157	33.504	33.818
14779	ENSG00000101190	TCFL5	-1.1	0.0364671	0.0998299	16.783	0.481	16.382	17.317	19.006	0.738	18.162	19.525
14780	ENSG00000110719	TCIRG1	-1.2	0.0077923	0.0300071	6.891	1.160	6.066	8.217	8.667	1.199	7.652	9.989
14782	ENSG00000185339	TCN2	1.4	1.845E-10	1.126E-08	56.882	1.754	55.547	58.869	42.019	3.048	38.595	44.435
14783	ENSG00000120438	TCP1	-1.1	2.637E-06	4.314E-05	154.609	3.721	150.391	157.425	180.886	2.371	178.772	183.449
14787	ENSG00000256849	TCP1P3	-1.3	0.0758344	0.1739101	4.466	0.692	3.795	5.178	5.716	0.416	5.236	5.961
14788	ENSG00000204852	TCTN1	1.3	0.000435	0.0029859	4.507	0.251	4.219	4.676	3.659	0.052	3.627	3.718
14791	ENSG00000168778	TCTN2	1.2	0.0386857	0.1041921	4.274	0.171	4.077	4.377	3.614	0.653	2.909	4.197
14792	ENSG00000139372	TDG	-1.1	0.0020372	0.0103036	41.140	2.393	39.584	43.895	47.255	2.727	45.115	50.325
14793	ENSG00000241186	TDGF1	-1.2	5.174E-08	1.532E-06	538.735	16.921	526.924	558.120	662.403	40.404	615.875	688.653
14794	ENSG00000225366	TDGF1P3	-1.2	8.696E-07	1.701E-05	126.077	5.228	120.241	130.331	154.520	8.110	145.655	161.565
14795	ENSG00000111802	TDP2	1.1	0.0316987	0.0901649	60.836	2.834	58.105	63.762	57.483	0.724	57.038	58.318
14796	ENSG00000083544	TDRD3	-1.1	0.0357509	0.0983819	7.392	0.757	6.526	7.930	8.509	0.453	8.136	9.013
14797	ENSG00000204091	TDRG1	-1.8	0.0460454	0.1191868	0.581	0.298	0.365	0.921	1.095	0.405	0.768	1.548
14798	ENSG00000187079	TEAD1	1.3	5.931E-08	1.724E-06	43.691	1.522	42.258	45.289	35.562	3.474	31.954	38.885
14799	ENSG00000197905	TEAD4	1.2	2.204E-06	3.677E-05	60.033	3.039	56.525	61.840	49.082	3.226	47.010	52.798
14800	ENSG00000205356	TECPR1	1.3	0.0003183	0.0023186	4.393	0.277	4.161	4.700	3.540	0.184	3.332	3.683
14801	ENSG00000100726	TELO2	-1.1	0.0928585	0.2025032	22.750	2.046	20.389	23.963	25.176	2.506	22.834	27.819
14802	ENSG00000009694	TENM1	1.2	0.0286259	0.0832307	2.961	0.328	2.669	3.316	2.627	0.084	2.559	2.722
14803	ENSG00000145934	TENM2	1.5	0.0036877	0.016621	0.760	0.231	0.567	1.016	0.516	0.041	0.478	0.559
14804	ENSG00000218336	TENM3	-1.1	0.0165989	0.0546393	27.480	2.197	25.314	29.706	30.392	1.214	28.991	31.141
14805	ENSG00000149256	TENM4	-1.3	0.014006	0.0477877	1.053	0.248	0.778	1.259	1.375	0.025	1.349	1.398
14806	ENSG00000167302	TEPSIN	-1.1	0.0578975	0.1418544	6.925	0.381	6.508	7.255	7.981	0.484	7.675	8.539
14807	ENSG00000147601	TERF1	-1.3	2.622E-08	8.594E-07	140.164	5.396	133.971	143.853	183.977	12.083	176.235	197.900
14809	ENSG00000173231	TERF1P1	-1.3	0.0024089	0.0117888	14.791	2.439	11.974	16.205	19.924	2.600	17.964	22.874
14810	ENSG00000187589	TERF1P2	-1.2	0.0021305	0.010651	21.871	0.980	21.165	22.991	27.717	1.887	25.655	29.358
14811	ENSG00000249311	TERF1P3	-1.6	0.003252	0.0150236	3.219	0.804	2.358	3.950	5.418	0.749	4.844	6.265
14813	ENSG00000215102	TERF1P4	-1.3	3.959E-06	6.061E-05	64.955	2.990	61.610	67.369	85.337	4.002	82.872	89.954
14814	ENSG00000226361	TERF1P5	-1.4	3.045E-08	9.734E-07	58.928	2.703	57.287	62.048	82.009	4.303	77.533	86.116
14815	ENSG00000164362	TERT	-1.7	3.618E-09	1.545E-07	6.216	1.031	5.025	6.813	10.772	0.467	10.362	11.280
14816	ENSG00000135269	TES	1.2	0.0001133	0.0009984	25.885	0.580	25.272	26.424	22.107	1.929	20.427	24.214
14817	ENSG00000088992	TESC	-1.5	0.0041446	0.0182833	2.590	0.472	2.070	2.992	3.970	0.123	3.898	4.112
14819	ENSG00000107140	TESK1	-1.2	0.0117353	0.0414795	7.095	0.734	6.550	7.929	8.793	0.688	8.052	9.412
14820	ENSG00000070759	TESK2	-1.3	4.985E-05	0.0005121	12.740	0.952	11.689	13.544	16.880	1.497	15.272	18.232
14821	ENSG00000132749	TESMIN	-1.1	0.0094988	0.0349322	15.499	0.487	14.959	15.906	17.775	0.734	17.224	18.608
14822	ENSG00000138336	TET1	-1.2	7.724E-06	0.000107	34.266	0.424	33.843	34.692	40.540	0.697	39.845	41.238

	A	B	C	D	E	F	G	H	I	J	K	L	M
14823	ENSG00000187605	TET3	1.1	0.0332416	0.0933447	11.106	0.344	10.708	11.316	10.447	0.182	10.282	10.642
14825	ENSG00000170925	TEX13B	-1.3	0.0591576	0.1440858	3.798	0.431	3.315	4.141	5.266	1.285	3.982	6.552
14827	ENSG00000133863	TEX15	1.2	0.0014802	0.0080036	5.042	0.343	4.725	5.405	4.254	0.209	4.035	4.450
14828	ENSG00000182459	TEX19	1.7	0.00396	0.0176376	2.806	0.581	2.135	3.155	1.665	0.357	1.293	2.005
14829	ENSG00000136478	TEX2	1.2	0.0017959	0.0093445	6.733	0.338	6.352	6.995	5.820	0.197	5.601	5.985
14832	ENSG00000144043	TEX261	1.2	0.000547	0.0035981	11.300	0.339	11.056	11.687	9.308	0.927	8.261	10.025
14833	ENSG00000164081	TEX264	1.2	0.0080957	0.0308716	5.382	0.188	5.165	5.501	4.486	0.597	3.844	5.024
14835	ENSG00000151575	TEX9	1.2	0.0182464	0.0587475	3.221	0.362	2.822	3.526	2.763	0.032	2.736	2.798
14836	ENSG00000108064	TFAM	1.1	0.048226	0.1234706	67.010	1.379	65.563	68.309	64.635	0.884	63.832	65.582
14837	ENSG00000087510	TFAP2C	-1.6	1.216E-07	3.234E-06	6.951	0.390	6.637	7.387	11.343	0.586	10.722	11.885
14838	ENSG00000162851	TFB2M	-1.1	0.0211998	0.0660528	24.956	0.797	24.128	25.718	28.753	0.815	27.814	29.282
14839	ENSG00000115112	TFCP2L1	1.2	0.0057762	0.0236947	3.029	0.215	2.893	3.277	2.519	0.151	2.368	2.670
14840	ENSG00000198176	TFDP1	1.1	0.0478047	0.1226978	55.958	1.783	54.321	57.858	53.397	2.105	50.967	54.672
14841	ENSG00000114126	TFDP2	-1.1	0.0001062	0.0009471	24.312	1.102	23.167	25.367	28.306	0.612	27.609	28.750
14842	ENSG00000112561	TFEB	-2.4	0.000317	0.0023108	0.245	0.067	0.183	0.317	0.604	0.105	0.498	0.709
14843	ENSG00000114354	TFG	-1.1	0.0012145	0.0068674	48.037	0.423	47.554	48.339	54.432	1.303	52.959	55.432
14844	ENSG00000105825	TFPI2	1.2	0.0143386	0.0487358	7.154	1.091	6.266	8.372	5.928	0.404	5.462	6.182
14845	ENSG00000106327	TFR2	-1.3	0.0148534	0.0500528	1.511	0.211	1.353	1.750	2.046	0.163	1.870	2.192
14846	ENSG00000072274	TFRC	-1.1	0.067498	0.1593891	52.264	2.377	49.548	53.970	57.107	5.653	50.585	60.600
14847	ENSG00000105329	TGFB1	1.4	0.0011155	0.0064323	5.796	0.499	5.381	6.350	4.196	0.557	3.789	4.830
14848	ENSG00000140682	TGFB111	1.4	0.0037712	0.0169092	3.153	0.317	2.789	3.364	2.334	0.371	2.039	2.750
14849	ENSG00000120708	TGFB1	-1.3	0.002037	0.0103036	2.762	0.299	2.535	3.100	3.610	0.468	3.281	4.145
14850	ENSG00000163513	TGFB2	1.4	9.987E-07	1.902E-05	9.300	0.063	9.228	9.343	6.902	0.118	6.768	6.989
14851	ENSG00000177426	TGIF1	1.1	0.0110967	0.039616	53.268	2.752	50.209	55.542	50.438	2.428	48.581	53.186
14852	ENSG00000198959	TGM2	-1.6	0.0121063	0.0425684	0.319	0.058	0.278	0.386	0.526	0.099	0.415	0.603
14854	ENSG00000152291	TGOLN2	1.1	0.0819869	0.1850339	51.326	1.863	49.479	53.204	49.853	0.791	48.967	50.487
14855	ENSG00000137574	TGS1	-1.1	0.0789273	0.1796874	36.345	3.178	32.916	39.191	39.938	2.552	38.012	42.832
14856	ENSG00000131931	THAP1	-1.2	0.0241425	0.0729798	12.132	0.698	11.522	12.893	14.658	1.193	13.562	15.929
14857	ENSG00000137492	THAP12	1.1	0.0218201	0.0675038	21.620	0.898	20.926	22.635	20.326	0.867	19.751	21.323
14858	ENSG00000253919	THAP12P7	1.2	0.0327122	0.092287	10.183	0.649	9.618	10.892	8.756	0.530	8.199	9.254
14859	ENSG00000176946	THAP4	1.1	0.058316	0.1425654	50.786	0.188	50.575	50.937	48.406	1.024	47.572	49.549
14860	ENSG00000168152	THAP9	-1.1	0.0400519	0.1070801	13.862	0.736	13.267	14.685	15.733	0.965	14.639	16.463
14861	ENSG00000137801	THBS1	1.3	0.0185094	0.0592898	63.116	8.443	54.121	70.869	49.095	8.672	40.597	57.931
14862	ENSG00000186340	THBS2	-2.2	6.99E-13	7.78E-11	8.208	1.616	6.754	9.948	18.235	0.860	17.261	18.888
14863	ENSG00000113296	THBS4	1.3	2.8E-05	0.0003155	19.271	1.656	17.378	20.447	15.607	1.180	14.496	16.846
14864	ENSG00000130193	THEM6	1.3	0.0310173	0.0885843	3.845	0.352	3.463	4.156	3.109	0.412	2.847	3.584
14865	ENSG00000130775	THEMIS2	1.2	0.036924	0.1006602	6.443	0.164	6.294	6.618	5.646	0.360	5.237	5.915
14866	ENSG00000113272	THG1L	-1.2	0.00083	0.0050222	10.966	0.758	10.317	11.799	13.812	0.662	13.320	14.565
14867	ENSG00000185875	THNSL1	-1.1	0.0237059	0.0720065	11.810	0.608	11.108	12.169	13.786	0.534	13.212	14.267
14868	ENSG00000079134	THOC1	-1.1	0.0197377	0.062327	25.019	0.871	24.163	25.904	27.720	0.986	27.123	28.858
14869	ENSG00000125676	THOC2	-1.2	3.251E-06	5.105E-05	30.895	1.033	30.189	32.080	37.454	2.006	36.237	39.769
14871	ENSG00000100296	THOC5	1.2	0.0036148	0.0163599	8.499	0.280	8.177	8.677	7.509	0.332	7.127	7.732
14872	ENSG00000172009	THOP1	-1.1	0.0730776	0.1693561	20.638	0.266	20.394	20.922	22.485	1.157	21.286	23.594

	A	B	C	D	E	F	G	H	I	J	K	L	M
14873	ENSG00000126351	THRA	-1.1	0.0829336	0.1865483	4.230	0.424	3.906	4.710	4.882	0.516	4.307	5.304
14874	ENSG00000151090	THRB	-1.2	0.0341905	0.0953695	1.774	0.163	1.608	1.934	2.192	0.113	2.101	2.319
14875	ENSG00000187720	THSD4	-1.1	0.0761873	0.1745302	2.057	0.271	1.891	2.370	2.363	0.102	2.246	2.424
14877	ENSG00000005108	THSD7A	1.8	0.0003573	0.0025434	0.659	0.136	0.504	0.757	0.375	0.077	0.286	0.426
14878	ENSG00000144229	THSD7B	1.7	0.0009999	0.0058701	0.861	0.163	0.749	1.048	0.505	0.121	0.368	0.592
14879	ENSG00000259431	THTPA	-1.2	0.0256489	0.0764406	8.787	0.192	8.673	9.009	10.491	0.453	10.052	10.957
14880	ENSG00000066654	THUMPD1	-1.2	1.127E-05	0.0001476	45.308	0.712	44.486	45.720	53.731	2.174	51.862	56.117
14881	ENSG00000134077	THUMPD3	1.1	0.0850164	0.1898946	37.597	1.163	36.299	38.545	36.111	2.071	34.807	38.499
14883	ENSG00000154096	THY1	1.2	1.317E-07	3.464E-06	131.979	4.473	126.844	135.030	113.394	5.379	109.457	119.523
14884	ENSG00000116001	TIA1	1.1	0.0311165	0.0888374	90.100	1.279	89.119	91.546	85.790	5.266	80.046	90.390
14885	ENSG00000221995	TIAF1	1.4	0.0683534	0.1608742	0.953	0.042	0.913	0.997	0.715	0.142	0.625	0.879
14886	ENSG00000151923	TIAL1	-1.1	0.0013786	0.0075656	47.291	0.811	46.450	48.068	53.702	2.725	51.757	56.816
14887	ENSG00000156299	TIAM1	1.1	0.0377779	0.1023609	11.807	0.160	11.672	11.983	11.079	0.786	10.330	11.896
14888	ENSG00000146426	TIAM2	-1.4	3.371E-07	7.724E-06	3.129	0.184	3.010	3.342	4.562	0.413	4.286	5.036
14889	ENSG00000066056	TIE1	-1.7	8.583E-05	0.0007972	0.782	0.086	0.684	0.846	1.350	0.134	1.206	1.472
14890	ENSG00000173825	TIGD3	-1.5	0.0617671	0.1488131	1.301	0.522	0.734	1.761	1.958	0.227	1.710	2.157
14891	ENSG00000164296	TIGD6	-1.2	0.0959714	0.2072742	1.862	0.080	1.782	1.942	2.326	0.514	1.753	2.745
14892	ENSG00000111602	TIMELESS	1.1	0.0001071	0.000954	89.993	3.819	87.303	94.364	81.260	2.425	79.399	84.003
14893	ENSG00000132286	TIMM10B	1.1	0.0110265	0.0394272	31.787	1.822	30.656	33.889	28.983	1.564	27.721	30.732
14895	ENSG00000099800	TIMM13	-1.1	0.0147492	0.0497794	92.844	1.517	91.130	94.012	103.057	0.613	102.687	103.764
14896	ENSG00000126768	TIMM17B	-1.2	0.0003931	0.0027577	35.004	2.124	33.619	37.450	41.907	1.538	40.191	43.159
14897	ENSG00000142444	TIMM29	-1.2	0.0026209	0.0126683	18.498	0.595	18.081	19.179	22.949	2.540	20.673	25.689
14898	ENSG00000224908	TIMM8BP2	1.9	0.0253809	0.075829	8.463	1.548	6.765	9.794	4.580	2.665	1.547	6.543
14899	ENSG00000100575	TIMM9	-1.1	0.0334663	0.0937908	51.768	4.609	49.066	57.089	58.831	5.159	53.906	64.196
14900	ENSG00000113845	TIMMDC1	1.2	2.332E-05	0.0002711	49.842	1.697	48.381	51.703	42.695	1.604	41.263	44.428
14902	ENSG00000102265	TIMP1	1.2	0.0002399	0.0018482	76.959	7.014	70.421	84.368	65.465	0.913	64.447	66.211
14903	ENSG00000035862	TIMP2	1.1	0.0044954	0.01948	18.061	0.867	17.116	18.818	16.320	0.663	15.702	17.020
14904	ENSG00000100234	TIMP3	1.4	0.0016336	0.0086856	3.176	0.274	2.887	3.431	2.270	0.636	1.788	2.990
14905	ENSG00000157150	TIMP4	1.8	0.0219436	0.067815	1.674	0.655	1.174	2.416	0.969	0.134	0.847	1.113
14907	ENSG00000092330	TINF2	-1.2	0.0049347	0.0209384	21.672	2.335	19.980	24.336	25.731	1.279	24.492	27.047
14908	ENSG00000163659	TIPARP	1.4	5.42E-05	0.0005463	6.153	0.397	5.908	6.611	4.622	0.220	4.369	4.761
14909	ENSG00000143155	TIPRL	1.1	0.0664623	0.1575219	46.297	1.983	44.293	48.258	44.216	0.824	43.455	45.091
14910	ENSG00000150455	TIRAP	1.2	0.0916682	0.2009571	3.836	0.386	3.577	4.279	3.308	0.356	3.071	3.718
14911	ENSG00000137221	TJAP1	-1.1	0.0297748	0.0857452	9.384	0.843	8.432	10.038	10.729	0.162	10.546	10.858
14912	ENSG00000104067	TJP1	1.1	0.0002212	0.001732	60.997	1.353	59.435	61.824	56.275	0.683	55.614	56.978
14913	ENSG00000105289	TJP3	-1.4	9.2E-08	2.534E-06	14.181	0.818	13.278	14.874	19.814	0.458	19.518	20.341
14915	ENSG00000149476	TKFC	-1.2	0.0001496	0.0012567	10.401	0.460	10.126	10.932	12.730	0.830	11.774	13.264
14917	ENSG00000163931	TKT	1.1	0.0135609	0.046562	300.473	1.326	299.467	301.975	289.270	4.820	285.623	294.735
14918	ENSG00000065717	TLE2	-1.4	0.0013755	0.007551	2.262	0.074	2.177	2.305	3.225	0.143	3.060	3.308
14920	ENSG00000140332	TLE3	-1.2	0.0003246	0.0023544	12.081	1.064	10.857	12.781	14.378	0.307	14.081	14.694
14921	ENSG00000106829	TLE4	-1.1	0.0014456	0.0078447	16.428	0.285	16.122	16.687	19.092	0.971	18.115	20.058

	A	B	C	D	E	F	G	H	I	J	K	L	M
14922	ENSG00000104953	TLE6	-1.5	0.0429129	0.1128048	0.486	0.105	0.367	0.566	0.769	0.150	0.680	0.942
14923	ENSG00000095587	TLL2	-1.3	0.1067828	0.2236278	0.673	0.238	0.399	0.823	0.882	0.150	0.710	0.983
14924	ENSG00000137076	TLN1	1.1	0.0004008	0.0028004	52.761	1.699	50.934	54.295	48.383	2.290	46.028	50.601
14925	ENSG00000137462	TLR2	1.5	0.0008827	0.0052791	2.293	0.291	1.969	2.533	1.519	0.156	1.341	1.627
14926	ENSG00000164342	TLR3	-1.7	0.0004427	0.0030237	0.748	0.207	0.510	0.878	1.319	0.287	1.062	1.628
14928	ENSG00000187554	TLR5	-1.6	0.0145658	0.0493293	0.696	0.181	0.545	0.897	1.133	0.102	1.050	1.247
14931	ENSG00000162604	TM2D1	-1.1	0.1038007	0.2190917	8.513	0.498	7.950	8.892	9.639	1.086	8.953	10.892
14932	ENSG00000169490	TM2D2	1.1	0.0875201	0.1939756	16.439	1.072	15.203	17.086	15.362	1.218	14.110	16.543
14933	ENSG00000149809	TM7SF2	1.1	0.0676996	0.1597828	21.660	0.700	20.852	22.077	19.981	2.461	17.139	21.417
14934	ENSG00000064115	TM7SF3	1.2	3.065E-05	0.0003399	91.307	3.916	87.636	95.430	80.637	4.766	76.811	85.976
14935	ENSG00000198498	TMA16	1.1	0.0923062	0.2018846	51.537	1.843	49.962	53.563	49.638	1.040	48.438	50.263
14937	ENSG00000232112	TMA7	-1.1	0.0206583	0.0647026	141.382	7.095	137.188	149.574	156.834	2.959	153.447	158.913
14939	ENSG00000135926	TMBIM1	1.1	0.0073081	0.0284559	18.016	0.509	17.608	18.587	16.260	0.605	15.597	16.781
14940	ENSG00000139644	TMBIM6	1.1	0.0055306	0.0228591	256.480	3.537	254.354	260.563	245.151	4.806	239.602	247.929
14941	ENSG00000167608	TMC4	-1.5	0.0001205	0.0010521	3.717	0.495	3.158	4.101	5.676	0.716	5.014	6.436
14942	ENSG00000141524	TMC6	1.2	5.088E-05	0.000519	17.172	1.685	15.399	18.752	14.494	0.792	13.995	15.407
14943	ENSG00000170537	TMC7	1.2	0.0599379	0.1455044	3.240	0.201	3.064	3.459	2.794	0.344	2.575	3.190
14944	ENSG00000167895	TMC8	1.9	0.0006146	0.0039586	1.257	0.438	0.947	1.758	0.690	0.173	0.569	0.888
		TMCC1-											
14945	ENSG00000271270	AS1	1.3	0.091865	0.201258	1.356	0.060	1.289	1.406	1.090	0.136	0.981	1.243
14947	ENSG00000143183	TMCO1	1.1	0.0480559	0.123203	24.825	1.070	23.773	25.912	23.393	1.756	21.538	25.030
14948	ENSG00000150403	TMCO3	1.1	0.0208736	0.0652803	16.218	0.631	15.748	16.936	15.300	0.290	15.132	15.635
14949	ENSG00000162542	TMCO4	-1.4	0.0023706	0.0116516	2.642	0.424	2.389	3.132	3.776	0.198	3.549	3.911
14950	ENSG00000099203	TMED1	1.1	0.0238624	0.072353	29.892	2.304	27.616	32.223	26.710	1.911	25.148	28.840
14951	ENSG00000086598	TMED2	-1.2	5.402E-06	7.937E-05	120.753	4.953	115.492	125.325	143.072	1.922	141.432	145.187
14952	ENSG00000166557	TMED3	-1.1	0.0013052	0.0072498	5.807	0.176	5.670	6.006	6.790	0.335	6.485	7.149
14953	ENSG00000134970	TMED7	1.1	0.0090046	0.0334345	53.517	1.073	52.799	54.751	48.459	3.811	45.665	52.800
14954	ENSG00000091947	TMEM101	-1.1	0.0505486	0.1280983	20.642	1.633	19.351	22.478	23.328	0.932	22.771	24.405
		TMEM106											
14955	ENSG00000106460	B	-1.1	0.0574934	0.1410891	19.866	0.620	19.317	20.538	21.828	1.675	20.741	23.757
14956	ENSG00000179029	TMEM107	1.3	0.018549	0.0593941	4.652	0.510	4.064	4.948	3.745	0.112	3.633	3.857
14959	ENSG00000144868	TMEM108	-1.2	0.033467	0.0937908	2.668	0.514	2.138	3.165	3.241	0.086	3.152	3.323
14960	ENSG00000178307	TMEM11	-1.2	0.0017791	0.0092728	13.680	0.780	12.832	14.367	16.568	0.365	16.192	16.921
14961	ENSG00000126062	TMEM115	1.1	0.0995525	0.2125837	22.808	0.675	22.107	23.454	21.149	2.142	18.762	22.903
14963	ENSG00000139173	TMEM117	1.4	0.070411	0.1645064	1.350	0.208	1.116	1.516	0.997	0.276	0.679	1.182
14965	ENSG00000152558	TMEM123	1.2	0.000249	0.0019033	92.907	4.220	89.407	97.592	82.043	5.564	77.812	88.346
		TMEM126											
14966	ENSG00000171204	B	1.2	2.35E-05	0.0002726	69.618	4.958	66.104	75.289	59.547	0.591	58.880	60.009
14967	ENSG00000168936	TMEM129	-1.2	0.0001352	0.0011548	34.551	1.547	32.766	35.517	41.910	3.685	39.073	46.075
14969	ENSG00000166448	TMEM130	1.7	3.075E-08	9.811E-07	6.428	0.671	5.668	6.939	3.760	0.181	3.555	3.897

	A	B	C	D	E	F	G	H	I	J	K	L	M
14970	ENSG00000181234	TMEM132 C	-1.8	0.0031658	0.0147256	0.519	0.128	0.418	0.663	0.939	0.230	0.675	1.099
14971	ENSG00000181291	TMEM132 E	-4.1	5.302E-06	7.818E-05	0.173	0.128	0.030	0.276	0.735	0.083	0.640	0.791
14972	ENSG00000172663	TMEM134	1.2	0.0281281	0.0821785	7.725	0.594	7.282	8.400	6.811	0.516	6.484	7.406
14973	ENSG00000166575	TMEM135	1.2	2.373E-06	3.923E-05	38.474	1.158	37.143	39.245	32.736	1.132	32.026	34.041
14974	ENSG00000149483	TMEM138	-1.2	0.0007031	0.0043914	8.167	0.234	7.913	8.373	10.069	0.389	9.810	10.516
14975	ENSG00000178826	TMEM139	2	0.002412	0.0117939	1.617	0.510	1.209	2.190	0.828	0.131	0.727	0.976
14977	ENSG00000164124	TMEM144	1.2	0.0485051	0.12411	2.100	0.208	1.949	2.337	1.821	0.207	1.675	2.058
14978	ENSG00000167619	TMEM145	-1.6	0.0036766	0.0165906	1.926	0.420	1.623	2.405	3.060	0.396	2.647	3.436
14979	ENSG00000105677	TMEM147	1.1	0.0037627	0.0168801	96.333	4.232	92.383	100.799	87.774	6.681	83.277	95.450
14980	ENSG00000137210	TMEM14B	1.1	0.0138918	0.0474842	26.773	0.275	26.510	27.059	24.917	0.974	23.847	25.752
14981	ENSG00000178233	TMEM151 B	1.2	0.0062109	0.0250286	7.491	1.030	6.302	8.092	6.393	0.177	6.247	6.589
14984	ENSG00000170006	TMEM154	1.2	0.1204614	0.2435289	0.571	0.014	0.561	0.587	0.476	0.076	0.432	0.563
14985	ENSG00000249992	TMEM158	-1.3	0.0001031	0.0009258	25.086	1.898	22.965	26.625	33.508	5.489	27.615	38.474
14986	ENSG00000011638	TMEM159	-1.4	4.095E-10	2.217E-08	28.522	1.896	26.423	30.112	42.202	1.065	41.102	43.227
14987	ENSG00000164180	TMEM161 B	-1.1	0.084748	0.189537	14.415	0.743	13.900	15.267	15.823	1.356	14.999	17.388
14988	ENSG00000247828	TMEM161 B-AS1	-1.2	0.0020087	0.010201	9.365	0.271	9.080	9.619	11.597	1.073	10.358	12.256
14989	ENSG00000157600	TMEM164	1.1	0.0513979	0.129687	24.010	1.215	22.608	24.754	22.689	2.005	21.041	24.922
14990	ENSG00000163449	TMEM169	1.5	0.0039376	0.0175623	2.110	0.178	1.913	2.259	1.450	0.264	1.199	1.724
14991	ENSG00000166822	TMEM170 A	-1.1	0.1224758	0.2466604	36.019	0.776	35.480	36.908	38.843	1.198	37.556	39.925
14992	ENSG00000205269	TMEM170 B	1.6	1.15E-11	9.504E-10	11.142	0.550	10.523	11.573	7.241	0.543	6.630	7.668
14994	ENSG00000144120	TMEM177	-1.1	0.0342411	0.0953913	19.630	1.614	18.256	21.407	22.474	1.429	21.602	24.123
14995	ENSG00000170417	TMEM182	1.2	0.118622	0.2408016	1.508	0.108	1.386	1.595	1.290	0.241	1.081	1.553
14996	ENSG00000163444	TMEM183 A	-1.1	0.0244098	0.0736036	41.373	1.269	39.911	42.180	45.792	2.396	43.737	48.423
14997	ENSG00000198792	TMEM184 B	-1.1	0.0274132	0.0804394	25.782	0.131	25.667	25.925	28.913	3.364	25.642	32.362

	A	B	C	D	E	F	G	H	I	J	K	L	M
14998	ENSG00000177854	TMEM187	-1.4	0.0018016	0.0093642	5.874	0.745	5.111	6.600	8.441	0.809	7.668	9.281
14999	ENSG00000240849	TMEM189	1.1	0.0077887	0.0300001	10.167	0.242	9.997	10.445	9.145	0.518	8.648	9.682
15000	ENSG00000206140	TMEM191 C	1.3	0.0713332	0.166133	1.149	0.073	1.092	1.231	0.880	0.194	0.660	1.023
15001	ENSG00000170088	TMEM192	1.2	0.0027367	0.0131122	7.719	0.023	7.696	7.742	6.811	0.344	6.415	7.024
15002	ENSG00000182796	TMEM198 B	-1.1	0.065269	0.1552595	12.512	0.958	11.451	13.313	14.177	1.114	13.133	15.350
15003	ENSG00000135048	TMEM2	-1.4	2.686E-10	1.572E-08	19.725	1.476	18.070	20.906	27.310	0.762	26.442	27.865
15004	ENSG00000253304	TMEM200 B	1.5	2.285E-07	5.52E-06	16.277	0.443	15.843	16.728	11.163	1.215	9.928	12.358
15007	ENSG00000206432	TMEM200 C	1.3	0.001274	0.0071231	2.307	0.181	2.179	2.514	1.790	0.165	1.647	1.970
15008	ENSG00000168701	TMEM208	-1.1	0.0249545	0.0748724	24.895	0.533	24.306	25.345	28.900	0.547	28.269	29.231
15009	ENSG00000146842	TMEM209	1.1	0.0373789	0.1015687	19.133	1.566	17.405	20.458	17.743	0.819	16.876	18.503
15011	ENSG00000150433	TMEM218	-1.2	0.0025439	0.0123385	8.293	0.825	7.354	8.901	10.249	0.947	9.169	10.937
15012	ENSG00000187824	TMEM220	1.4	0.0019	0.0097824	3.139	0.276	2.822	3.325	2.234	0.313	1.948	2.569
15013	ENSG00000263400	TMEM220- AS1	-1.6	0.0002951	0.0021831	3.523	0.309	3.260	3.863	5.737	1.062	4.836	6.907
15015	ENSG00000186501	TMEM222	1.2	0.0062036	0.025011	8.761	0.863	8.180	9.753	7.451	0.128	7.373	7.598
15016	ENSG00000205084	TMEM231	1.5	2.379E-07	5.723E-06	6.558	0.362	6.161	6.869	4.493	0.049	4.454	4.547
15017	ENSG00000186952	TMEM232	1.6	0.0002882	0.002142	1.451	0.178	1.267	1.621	0.939	0.215	0.801	1.187
15018	ENSG00000205090	TMEM240	-1.2	0.0962267	0.2076401	5.549	0.923	4.818	6.586	6.933	0.312	6.573	7.135
15019	ENSG00000134490	TMEM241	1.1	0.1214214	0.2450596	6.693	0.162	6.599	6.880	6.197	0.079	6.106	6.250
15020	ENSG00000215712	TMEM242	-1.2	0.0084281	0.0317916	9.590	0.165	9.411	9.735	11.438	0.615	10.868	12.090
15021	ENSG00000165152	TMEM246	1.2	0.0001086	0.0009643	19.839	1.183	18.482	20.657	16.888	0.844	16.093	17.774
15022	ENSG00000153485	TMEM251	1.1	0.0882198	0.1951474	30.928	2.505	28.141	32.990	28.457	1.264	27.078	29.561
15023	ENSG00000184497	TMEM255 B	-1.7	0.0033774	0.0154884	0.434	0.148	0.264	0.527	0.770	0.178	0.618	0.966
15025	ENSG00000205544	TMEM256	-1.2	0.0015613	0.0083588	85.595	6.307	78.312	89.244	105.255	9.393	97.488	115.695
15026	ENSG00000134825	TMEM258	-1.1	0.0143593	0.0487766	50.853	1.507	49.552	52.503	56.868	1.822	55.769	58.971
15027	ENSG00000182087	TMEM259	-1.1	0.0019343	0.0099138	61.099	2.299	58.458	62.647	71.363	5.170	66.728	76.939
15028	ENSG00000070269	TMEM260	1.1	0.121048	0.2444579	8.337	0.288	8.005	8.518	7.858	0.706	7.252	8.633
15029	ENSG00000151135	TMEM263	-1.2	0.0008882	0.005301	14.258	0.507	13.874	14.833	17.480	1.523	15.830	18.831
15030	ENSG00000157693	TMEM268	1.4	9.906E-05	0.0008969	7.182	0.933	6.193	8.047	5.368	0.619	4.699	5.920
15033	ENSG00000182107	TMEM30B	1.2	0.000211	0.001662	12.856	0.958	11.797	13.662	10.635	0.232	10.386	10.844
15034	ENSG00000126950	TMEM35A	-1.2	0.0805798	0.1822961	8.355	1.572	6.662	9.769	9.867	0.431	9.477	10.329

	A	B	C	D	E	F	G	H	I	J	K	L	M
15035	ENSG00000095209	TMEM38B	1.2	0.0122377	0.0429325	11.166	0.713	10.408	11.824	9.897	0.219	9.708	10.137
15036	ENSG00000176142	TMEM39A	-1.1	0.0736036	0.1701731	21.451	0.094	21.345	21.525	23.567	1.451	22.510	25.221
15038	ENSG00000163900	TMEM41A	1.2	0.0066711	0.0264916	5.948	0.419	5.468	6.239	5.226	0.277	5.017	5.539
15039	ENSG00000166471	TMEM41B	1.3	1.001E-05	0.0001337	32.542	3.163	30.637	36.193	25.874	0.742	25.093	26.569
15040	ENSG00000170876	TMEM43	1.1	0.0326701	0.0922118	40.630	2.389	37.872	42.078	38.307	0.870	37.303	38.825
15041	ENSG00000147027	TMEM47	1.4	5.38E-12	4.869E-10	100.028	3.134	96.432	102.186	75.065	2.930	71.750	77.310
15042	ENSG00000183726	TMEM50A	1.1	0.0664469	0.1575219	80.794	0.763	79.927	81.365	78.015	3.194	74.484	80.703
15043	ENSG00000126106	TMEM53	1.2	0.1035273	0.2186919	4.577	0.046	4.549	4.630	3.981	0.915	3.375	5.034
15045	ENSG00000121900	TMEM54	-1.2	0.0239425	0.0725387	15.505	2.042	13.545	17.620	18.904	1.126	17.666	19.867
15046	ENSG00000155099	TMEM55A	1.4	1.691E-09	7.857E-08	72.718	1.728	70.848	74.256	53.735	4.963	48.120	57.534
15047	ENSG00000116209	TMEM59	-1.1	0.0407612	0.108566	29.563	0.743	28.760	30.226	32.279	0.550	31.708	32.805
15048	ENSG00000105696	TMEM59L	-1.4	1.93E-05	0.000231	14.196	1.275	12.827	15.349	20.111	2.099	18.629	22.513
15049	ENSG00000137842	TMEM62	1.2	0.0997483	0.2128761	2.422	0.124	2.302	2.549	2.060	0.489	1.496	2.359
15051	ENSG00000196187	TMEM63A	-1.2	0.0013	0.0072375	6.093	0.217	5.937	6.340	7.287	0.403	6.880	7.685
15052	ENSG00000137216	TMEM63B	-1.2	0.0006528	0.0041532	27.137	0.761	26.259	27.611	32.210	1.960	30.096	33.966
15053	ENSG00000165548	TMEM63C	-1.5	0.0005416	0.0035712	1.428	0.206	1.276	1.662	2.158	0.208	1.928	2.334
15054	ENSG00000180694	TMEM64	1.6	6.316E-09	2.508E-07	143.311	8.846	133.132	149.137	93.367	8.927	85.984	103.288
15055	ENSG00000164953	TMEM67	1.2	0.0107057	0.0385001	4.714	0.494	4.175	5.145	3.998	0.305	3.815	4.351
15057	ENSG00000159596	TMEM69	-1.2	6.815E-06	9.606E-05	41.831	3.727	37.628	44.735	53.377	2.946	50.111	55.834
15058	ENSG00000177042	TMEM80	-1.3	0.0032413	0.0149903	4.111	0.217	3.883	4.316	5.383	0.244	5.124	5.608
15059	ENSG00000174529	TMEM81	-2	0.0001279	0.0011069	3.000	0.681	2.237	3.547	6.068	0.857	5.130	6.810
15060	ENSG00000153214	TMEM87B	1.2	5.056E-05	0.0005176	18.431	0.099	18.343	18.538	15.460	1.294	13.971	16.306
15061	ENSG00000129925	TMEM8A	1.2	0.0002565	0.001951	48.654	3.004	45.764	51.760	42.926	3.394	39.567	46.353
15062	ENSG00000137103	TMEM8B	1.1	0.1113705	0.2303926	8.217	0.478	7.675	8.576	7.600	0.114	7.527	7.731
15065	ENSG00000177728	TMEM94	-1.1	0.0739472	0.1706932	12.789	0.673	12.256	13.546	14.116	0.635	13.418	14.661
15066	ENSG00000109084	TMEM97	1.2	3.543E-05	0.0003833	80.728	1.909	79.452	82.922	71.131	3.357	68.867	74.988
15068	ENSG00000006042	TMEM98	1.4	3.86E-11	2.818E-09	33.407	1.607	31.667	34.834	24.191	1.055	23.488	25.404
15069	ENSG00000175348	TMEM9B	1.2	0.000696	0.0043517	13.393	0.588	12.922	14.052	10.989	0.627	10.413	11.656
15070	ENSG00000144747	TMF1	-1.1	0.0013446	0.0074196	16.628	0.665	15.874	17.129	19.517	0.524	18.949	19.982
15072	ENSG00000185973	TMLHE	-1.2	0.0255859	0.0762931	7.932	0.370	7.510	8.205	9.482	0.760	8.659	10.157
15073	ENSG00000188167	TMPPE	-1.3	0.0465704	0.1202695	1.756	0.232	1.527	1.991	2.292	0.175	2.090	2.399
15074	ENSG00000087128	TMPRSS11 E	1.8	0.000644	0.0041088	3.300	1.166	2.439	4.627	1.869	0.256	1.598	2.108

	A	B	C	D	E	F	G	H	I	J	K	L	M
15075	ENSG00000184012	TMPRSS2	-1.4	5.508E-06	8.079E-05	4.295	0.313	3.934	4.492	6.347	0.702	5.636	7.039
15076	ENSG00000205542	TMSB4X	1.1	0.000825	0.0049975	2770.217	78.349	2705.936	2857.490	2576.748	100.396	2466.423	2662.744
15077	ENSG00000236876	TMSB4XP1	1.2	2.278E-05	0.0002659	873.723	16.044	856.646	888.481	732.420	35.364	711.708	773.253
15078	ENSG00000230043	TMSB4XP6	1.2	0.000128	0.0011069	1946.388	93.140	1840.815	2016.947	1688.273	75.259	1624.174	1771.140
15079	ENSG00000187653	TMSB4XP8	1.1	1.537E-05	0.0001899	14328.201	391.638	13938.592	14721.837	12924.011	280.778	12605.700	13136.506
15080	ENSG00000133687	TMTC1	1.3	9.155E-08	2.526E-06	10.245	0.181	10.114	10.451	8.157	0.392	7.767	8.552
15081	ENSG00000179104	TMTC2	-1.2	0.0059753	0.0242992	3.364	0.242	3.089	3.544	4.144	0.117	4.012	4.231
15082	ENSG00000125247	TMTC4	-1.1	0.0231117	0.0705573	26.610	0.882	25.652	27.388	29.507	0.947	28.926	30.599
15083	ENSG00000164897	TMUB1	-1.1	0.05609	0.13857	21.109	2.169	18.630	22.664	24.320	2.669	21.843	27.146
15084	ENSG00000168591	TMUB2	-1.2	0.0020798	0.0104657	11.614	0.581	11.033	12.195	14.216	0.422	13.927	14.700
15085	ENSG00000213593	TMX2	1.2	6.729E-05	0.0006545	69.704	2.347	67.063	71.554	60.384	1.714	58.440	61.677
15086	ENSG00000166479	TMX3	1.1	0.0007068	0.0044065	23.691	1.137	22.435	24.649	21.226	0.417	20.745	21.494
15087	ENSG00000125827	TMX4	1.2	0.0040341	0.0178936	8.429	0.254	8.191	8.696	7.325	0.337	6.964	7.631
15088	ENSG00000041982	TNC	1.6	7.529E-07	1.514E-05	3.900	0.573	3.250	4.336	2.549	0.348	2.148	2.772
15089	ENSG00000109079	TNFAIP1	1.1	0.0629172	0.1511748	15.619	1.480	13.933	16.703	14.496	0.150	14.336	14.633
15090	ENSG00000185215	TNFAIP2	1.2	0.0010071	0.00591	11.851	0.260	11.597	12.117	10.135	0.258	9.851	10.354
15091	ENSG00000145779	TNFAIP8	-1.1	0.0118722	0.0418495	6.733	0.414	6.431	7.204	7.853	0.650	7.254	8.544
15092	ENSG00000185361	TNFAIP8L1	-1.2	0.0005343	0.0035339	7.533	0.779	6.637	8.050	9.443	0.217	9.196	9.600
15093	ENSG00000120889	TNFRSF10 B	1.1	0.0062149	0.0250385	130.727	10.033	121.025	141.061	120.624	8.551	111.281	128.061
15094	ENSG00000173535	TNFRSF10 C	1.1	0.0598884	0.1454479	11.153	0.532	10.784	11.763	9.935	0.884	8.993	10.744
15095	ENSG00000006327	TNFRSF12 A	1.4	2.419E-09	1.074E-07	97.650	8.292	90.041	106.488	71.819	5.314	66.473	77.099
15096	ENSG00000067182	TNFRSF1A	1.2	0.0045147	0.0195437	24.421	1.530	23.004	26.044	21.671	2.155	19.710	23.977
15097	ENSG00000215788	TNFRSF25	-1.2	0.0077139	0.0297661	4.812	0.539	4.221	5.276	6.138	0.411	5.665	6.407
15098	ENSG00000120949	TNFRSF8	1.4	4.949E-06	7.368E-05	12.211	2.120	9.765	13.517	8.733	0.422	8.393	9.205
15099	ENSG00000125657	TNFRSF9	-1.5	0.0085418	0.0321015	4.770	1.399	3.221	5.941	7.341	2.466	4.617	9.422
15100	ENSG00000154310	TNIK	1.1	0.0001411	0.0011955	34.465	1.672	33.492	36.396	30.984	0.449	30.507	31.397
15101	ENSG00000168884	TNIP2	-1.1	0.062877	0.151121	23.693	0.440	23.185	23.966	26.566	2.260	23.995	28.240
15103	ENSG00000061938	TNK2	-1.3	0.0005639	0.0036907	6.267	0.233	6.107	6.535	8.155	1.037	6.983	8.957
15104	ENSG00000149115	TNKS1BP1	1.1	0.0001348	0.0011523	51.135	2.979	47.769	53.434	45.573	3.312	41.926	48.392
15105	ENSG00000129991	TNNI3	-1.2	0.004285	0.0187571	17.284	0.264	17.069	17.579	21.281	0.963	20.310	22.235

	A	B	C	D	E	F	G	H	I	J	K	L	M
15106	ENSG00000105048	TNNT1	-1.2	0.0016902	0.0089304	58.835	4.856	53.250	62.063	69.352	2.461	66.570	71.247
15107	ENSG00000083312	TNPO1	-1.1	0.0019767	0.0100789	98.213	4.144	93.787	102.001	109.851	4.756	105.281	114.774
15108	ENSG00000105576	TNPO2	-1.1	0.1174013	0.239201	33.778	1.362	32.789	35.332	36.254	1.265	35.505	37.715
15111	ENSG00000090905	TNRC6A	-1.1	0.0540605	0.1348561	34.328	0.258	34.030	34.478	37.286	0.873	36.544	38.248
15112	ENSG00000078687	TNRC6C	-1.2	4.917E-05	0.0005062	9.548	0.952	8.956	10.647	11.834	0.711	11.252	12.626
15113	ENSG00000204282	TNRC6C-AS1	1.5	0.0074941	0.0290574	1.526	0.230	1.275	1.726	1.011	0.194	0.888	1.235
15114	ENSG00000079308	TNS1	-1.3	0.003682	0.0166063	1.479	0.155	1.335	1.643	1.903	0.185	1.702	2.066
15117	ENSG00000111077	TNS2	-1.3	0.0820071	0.1850549	0.622	0.110	0.548	0.748	0.817	0.223	0.680	1.075
15120	ENSG00000136205	TNS3	-1.4	7.071E-06	9.899E-05	5.426	0.838	4.481	6.075	7.515	0.261	7.214	7.682
15121	ENSG00000131746	TNS4	2	0.0029837	0.0140216	0.591	0.124	0.457	0.701	0.298	0.077	0.226	0.379
15122	ENSG00000168477	TNXB	-1.2	0.0100954	0.0367348	1.392	0.140	1.287	1.551	1.732	0.151	1.634	1.905
15123	ENSG00000141232	TOB1	-1.4	3.407E-07	7.767E-06	22.204	2.738	20.448	25.359	32.158	3.381	29.692	36.012
15125	ENSG00000229980	TOB1-AS1	-1.5	0.0025872	0.0125128	3.239	0.529	2.887	3.847	5.003	0.973	3.902	5.749
15126	ENSG00000183864	TOB2	-1.1	0.0394516	0.1058278	28.483	1.005	27.508	29.516	31.437	1.097	30.179	32.188
15127	ENSG00000189350	TOGARAM2	1.4	0.0390906	0.1050428	0.289	0.044	0.239	0.316	0.207	0.072	0.133	0.276
15128	ENSG00000078902	TOLLIP	1.1	0.0813611	0.1837217	10.624	1.007	9.822	11.753	9.880	0.289	9.578	10.153
15129	ENSG00000173726	TOMM20	-1.1	1.535E-05	0.0001898	269.115	1.435	267.792	270.641	312.393	8.917	303.077	320.849
15130	ENSG00000230311	TOMM20P4	-1.3	3.264E-05	0.0003574	83.109	2.663	80.102	85.168	110.798	2.441	107.997	112.474
15131	ENSG00000025772	TOMM34	1.1	0.0162039	0.0536629	56.113	3.460	53.522	60.042	51.639	1.521	50.363	53.323
15132	ENSG00000175768	TOMM5	1.1	0.0177988	0.0575144	18.023	0.734	17.260	18.725	16.352	1.295	15.151	17.724
15133	ENSG00000154174	TOMM70	-1.2	1.267E-05	0.0001635	62.132	0.918	61.283	63.105	73.306	3.409	71.091	77.232
15134	ENSG00000160949	TONSL	-1.3	9.631E-08	2.644E-06	18.618	0.918	18.001	19.673	24.388	1.113	23.463	25.623
15135	ENSG00000131747	TOP2A	-1.3	8.17E-12	7.158E-10	364.250	15.052	353.102	381.372	481.688	23.610	466.381	508.879
15136	ENSG00000177302	TOP3A	-1.1	0.0092671	0.0342113	13.968	1.331	12.585	15.239	16.199	1.199	14.916	17.292
15138	ENSG00000100038	TOP3B	-1.5	7.871E-10	3.997E-08	11.794	1.155	11.116	13.128	17.568	1.031	16.883	18.754
15139	ENSG00000228050	TOP3BP1	-1.5	0.0041796	0.0183944	3.745	0.140	3.584	3.833	5.762	0.839	5.180	6.724
15140	ENSG00000136827	TOR1A	1.1	0.0638264	0.1527299	24.791	0.129	24.646	24.895	23.337	1.644	21.512	24.701
15142	ENSG00000103460	TOX3	-1.7	3.038E-10	1.754E-08	5.645	0.601	5.136	6.308	10.083	0.686	9.291	10.507
15146	ENSG00000067369	TP53BP1	1.1	0.0157675	0.052491	19.257	0.206	19.037	19.447	18.224	0.881	17.574	19.226
15147	ENSG00000175274	TP53I11	1.3	2.784E-06	4.493E-05	28.465	3.044	25.026	30.815	22.985	1.332	21.449	23.808
15148	ENSG00000164938	TP53INP1	-1.2	0.0002903	0.0021545	33.852	2.884	31.495	37.067	42.490	4.791	37.320	46.779
15149	ENSG00000078804	TP53INP2	1.3	0.0003598	0.0025577	8.035	0.400	7.578	8.316	6.362	0.366	6.000	6.732
15152	ENSG00000182165	TP53TG1	-1.2	0.080297	0.1817381	23.357	1.785	22.282	25.418	27.617	1.687	26.263	29.506
15153	ENSG00000078900	TP73	-2.1	1.001E-09	4.881E-08	1.481	0.238	1.212	1.660	3.202	0.327	2.824	3.399
15154	ENSG00000227372	TP73-AS1	-1.1	0.0094044	0.0346406	24.474	0.780	23.819	25.337	27.548	1.279	26.136	28.630
15155	ENSG00000186815	TPCN1	1.2	0.000335	0.0024108	10.019	0.276	9.727	10.276	8.559	0.494	7.989	8.872
15156	ENSG00000076554	TPD52	1.1	0.0121644	0.0427638	18.853	0.375	18.480	19.231	17.272	1.529	15.550	18.472
15158	ENSG00000141933	TPGS1	-1.5	0.0019382	0.0099278	1.558	0.442	1.105	1.988	2.455	0.179	2.319	2.658

	A	B	C	D	E	F	G	H	I	J	K	L	M
15159	ENSG00000134779	TPGS2	1.1	0.0550897	0.1368812	24.806	0.504	24.358	25.352	23.840	1.236	22.592	25.063
15162	ENSG00000111669	TPI1	-1.1	0.015625	0.0521028	381.233	8.344	371.941	388.083	417.083	26.739	389.465	442.847
15164	ENSG00000140416	TPM1	1.1	0.0378202	0.1024592	113.999	4.809	108.795	118.280	110.370	2.264	107.816	112.129
15165	ENSG00000143549	TPM3	-1	0.0953097	0.2063193	127.202	1.890	125.672	129.315	135.332	3.665	133.051	139.559
15167	ENSG00000241015	TPM3P9	1.3	0.008988	0.033395	5.525	0.542	4.915	5.954	4.273	0.780	3.374	4.778
15168	ENSG00000167460	TPM4	1.2	2.882E-10	1.669E-08	236.457	3.719	232.589	240.006	198.847	3.410	196.306	202.722
15169	ENSG00000137364	TPMT	1.1	0.0268249	0.0790951	37.374	0.794	36.696	38.247	35.063	0.472	34.638	35.570
15170	ENSG00000166340	TPP1	1.4	6.29E-12	5.626E-10	41.016	1.326	39.766	42.406	29.356	1.477	27.684	30.483
15172	ENSG00000171368	TPPP	-1.3	0.0213524	0.0663483	0.984	0.085	0.915	1.079	1.354	0.076	1.277	1.428
15178	ENSG00000163870	TPRA1	-1.1	0.055863	0.1382312	10.832	0.514	10.441	11.414	12.511	1.116	11.488	13.700
15180	ENSG00000176058	TPRN	-1.3	5.169E-05	0.000526	6.288	0.641	5.666	6.947	8.600	0.623	8.191	9.317
15183	ENSG00000169902	TPST1	-1.1	0.0866247	0.1925968	13.136	0.905	12.091	13.688	14.871	0.513	14.551	15.462
15184	ENSG00000128294	TPST2	1.1	0.0292857	0.0846835	22.382	0.922	21.403	23.232	21.069	1.097	19.845	21.964
15185	ENSG00000133112	TPT1	1.1	0.017743	0.0573782	530.760	7.859	525.168	539.746	514.591	6.196	508.306	520.695
15186	ENSG00000170919	TPT1-AS1	-1.3	0.0006937	0.0043407	3.234	0.282	3.050	3.559	4.208	0.550	3.574	4.551
15188	ENSG00000088325	TPX2	-1.2	6.92E-08	1.967E-06	201.422	15.179	189.090	218.375	254.742	17.051	241.285	273.917
15192	ENSG00000164548	TRA2A	1.1	0.0012816	0.0071583	96.262	4.094	91.569	99.102	86.758	3.861	82.870	90.591
15194	ENSG00000136527	TRA2B	1	0.0613007	0.1480364	78.344	2.364	75.664	80.133	76.452	0.840	75.668	77.339
15195	ENSG00000170638	TRABD	-1.3	7.617E-07	1.525E-05	26.906	1.156	26.006	28.209	36.404	3.715	32.606	40.030
15196	ENSG00000186854	TRABD2A	1.2	0.0179863	0.0580648	3.097	0.400	2.643	3.397	2.625	0.370	2.266	3.006
15197	ENSG00000131323	TRAF3	1.2	0.0167884	0.0551166	6.239	0.135	6.115	6.383	5.490	0.432	5.170	5.981
15200	ENSG00000231889	TRAF3IP2-AS1	-1.2	0.0146411	0.0495052	4.579	0.274	4.328	4.871	5.593	0.239	5.317	5.749
15201	ENSG00000076604	TRAF4	-1.1	0.0006343	0.0040556	61.247	2.665	59.067	64.217	70.333	4.222	67.141	75.120
15202	ENSG00000082512	TRAF5	1.1	0.0314459	0.0895059	19.529	0.892	18.705	20.477	18.430	0.983	17.301	19.090
15203	ENSG00000131653	TRAF7	-1.2	0.000144	0.001217	59.747	2.906	56.554	62.236	70.730	3.882	67.738	75.116
15206	ENSG00000135148	TRAFD1	-1.1	0.00902	0.0334845	26.068	0.904	25.536	27.112	29.495	0.411	29.247	29.970
15207	ENSG00000182606	TRAK1	1.1	0.1102535	0.2288277	20.088	1.317	18.644	21.223	19.426	0.923	18.551	20.390
15208	ENSG00000115993	TRAK2	1.2	0.0014458	0.0078447	9.702	1.196	8.651	11.003	8.312	0.165	8.134	8.460
15210	ENSG00000174599	TRAM1L1	1.2	0.0488788	0.1249149	9.470	1.145	8.179	10.364	7.899	0.326	7.672	8.272
15211	ENSG00000065308	TRAM2	1.5	1.54E-11	1.244E-09	16.108	0.551	15.485	16.532	11.126	0.680	10.678	11.909
15212	ENSG00000225791	TRAM2-AS1	1.1	0.1220226	0.2460675	6.148	0.151	5.977	6.261	5.461	0.757	4.791	6.283
15214	ENSG00000168016	TRANK1	1.1	0.0011372	0.0065176	18.927	1.227	17.569	19.954	17.047	0.191	16.840	17.216
15215	ENSG00000126602	TRAP1	-1.1	0.0006713	0.0042363	87.209	2.481	84.344	88.644	98.401	2.971	96.026	101.733
15216	ENSG00000160218	TRAPPC10	-1.1	0.0080606	0.0307808	10.586	0.367	10.170	10.863	12.074	1.087	11.183	13.286
15217	ENSG00000171853	TRAPPC12	1.1	0.0063061	0.0253191	10.600	0.681	10.032	11.355	9.515	0.938	8.683	10.531
15221	ENSG00000167515	TRAPPC2L	1.2	0.0008759	0.005247	22.556	0.363	22.199	22.926	19.997	0.205	19.765	20.148
15224	ENSG00000054116	TRAPPC3	1.1	0.0018539	0.0095724	44.978	1.002	43.899	45.880	40.898	1.468	39.909	42.585
15228	ENSG00000196655	TRAPPC4	-1.1	0.0402221	0.1074176	15.426	0.423	15.159	15.913	17.315	1.200	16.074	18.470
15230	ENSG00000181029	TRAPPC5	-1.2	0.0252033	0.0753916	2.526	0.248	2.240	2.681	3.206	0.442	2.767	3.650
15231	ENSG00000153339	TRAPPC8	-1.1	0.0084105	0.0317444	25.666	0.991	25.029	26.808	28.527	0.346	28.181	28.873
15236	ENSG00000167632	TRAPPC9	1.2	0.0059254	0.0241543	7.208	0.473	6.801	7.727	6.292	0.234	6.142	6.562

	A	B	C	D	E	F	G	H	I	J	K	L	M
15240	ENSG00000211772	TRBC2	1.2	0.0092353	0.0341117	33.211	3.378	29.528	36.165	27.956	0.565	27.304	28.292
15242	ENSG00000124496	TRERF1	-1.2	6.495E-06	9.23E-05	14.567	1.108	13.309	15.401	18.299	0.563	17.807	18.913
15244	ENSG00000281103	TRG-AS1	1.7	0.0003795	0.0026785	1.786	0.413	1.335	2.146	1.049	0.113	0.921	1.136
15245	ENSG00000170855	TRIAP1	-1.2	0.0002572	0.0019547	118.791	8.048	111.997	127.679	144.833	6.095	138.283	150.337
15246	ENSG00000173334	TRIB1	1.2	1.157E-06	2.148E-05	35.713	2.044	33.539	37.595	29.502	0.121	29.367	29.602
15248	ENSG00000071575	TRIB2	-1.2	1.468E-05	0.0001832	39.454	3.314	36.759	43.154	49.568	2.976	46.136	51.434
15251	ENSG00000101255	TRIB3	3.1	3.05E-18	1.32E-15	14.622	0.526	14.145	15.187	4.863	0.454	4.422	5.329
15253	ENSG00000255690	TRIL	-1.3	0.0004436	0.0030278	3.803	0.349	3.470	4.166	5.249	0.431	4.752	5.512
15259	ENSG00000204977	TRIM13	-1.1	0.0114145	0.0405065	12.589	0.338	12.306	12.962	14.284	0.620	13.608	14.827
15262	ENSG00000109654	TRIM2	-1.2	4.485E-05	0.0004683	23.884	1.113	22.747	24.970	28.128	0.628	27.451	28.691
15264	ENSG00000132109	TRIM21	1.1	0.0685798	0.1612526	14.306	0.826	13.516	15.165	12.851	1.182	11.513	13.756
15269	ENSG00000132274	TRIM22	1.4	4.21E-11	3.022E-09	54.561	3.748	51.218	58.612	39.414	2.745	37.561	42.567
15271	ENSG00000113595	TRIM23	-1.1	0.0329792	0.0928504	10.310	0.927	9.422	11.272	11.860	0.530	11.307	12.364
15273	ENSG00000122779	TRIM24	-1.4	3.79E-13	4.45E-11	66.670	3.434	62.886	69.588	92.742	1.309	91.251	93.707
15275	ENSG00000130726	TRIM28	-1.1	0.0012078	0.0068457	309.112	17.650	288.738	319.761	353.037	23.827	335.391	380.142
15277	ENSG00000119401	TRIM32	-1.1	0.0117542	0.0415375	15.897	0.333	15.663	16.278	18.344	0.303	17.995	18.543
15278	ENSG00000197323	TRIM33	1.1	0.0934145	0.2033358	35.811	0.240	35.562	36.040	34.844	0.481	34.289	35.141
15279	ENSG00000152503	TRIM36	1.1	0.1113478	0.230392	6.333	0.465	5.797	6.629	5.854	0.569	5.322	6.453
15282	ENSG00000112343	TRIM38	-2	3.146E-07	7.278E-06	0.782	0.095	0.674	0.855	1.628	0.223	1.383	1.819
15283	ENSG00000204599	TRIM39	-1.2	0.003515	0.0159851	7.408	0.438	6.953	7.826	9.208	0.223	8.964	9.400
15284	ENSG00000146833	TRIM4	-1.2	0.000467	0.0031629	8.790	0.886	8.072	9.781	11.113	0.423	10.782	11.590
15290	ENSG00000146063	TRIM41	-1.1	0.0036207	0.0163824	7.075	0.308	6.739	7.343	8.249	0.629	7.691	8.930
15293	ENSG00000166326	TRIM44	1.1	0.0001466	0.0012345	30.296	1.641	28.531	31.775	27.320	0.902	26.300	28.012
15296	ENSG00000132256	TRIM5	1.2	3.85E-05	0.0004123	27.478	1.819	26.237	29.566	22.921	1.661	21.910	24.838
15297	ENSG00000169871	TRIM56	1.3	1.313E-08	4.696E-07	20.677	0.766	19.803	21.226	16.725	0.457	16.274	17.188
15299	ENSG00000213186	TRIM59	-1.2	3.072E-05	0.0003405	17.000	0.615	16.399	17.627	20.996	0.707	20.581	21.813
15300	ENSG00000121236	TRIM6	-1.2	0.0087811	0.0328139	12.483	1.037	11.678	13.653	14.710	0.660	14.027	15.345
15302	ENSG00000206557	TRIM71	-1.1	0.0013435	0.0074161	300.719	14.850	283.661	310.764	335.259	3.588	332.698	339.360
15305	ENSG00000177238	TRIM72	1.3	0.0959449	0.2072434	0.633	0.044	0.591	0.678	0.501	0.036	0.460	0.530
15308	ENSG00000100505	TRIM9	-1.2	0.0799676	0.181202	1.998	0.346	1.751	2.393	2.472	0.584	1.875	3.041
15309	ENSG00000179046	TRIML2	1.3	0.0349966	0.0969528	42.931	8.895	37.686	53.201	34.617	3.501	30.997	37.985
15310	ENSG00000038382	TRIO	1.1	0.0214058	0.0664774	13.630	0.397	13.237	14.031	12.943	0.460	12.451	13.361
15312	ENSG00000153827	TRIP12	1.1	0.0077487	0.0298869	44.887	1.847	43.072	46.765	42.566	0.531	42.258	43.179
15313	ENSG00000205133	TRIQK	-1.1	0.0085049	0.032015	16.190	0.434	15.754	16.622	18.597	1.042	17.507	19.583
15315	ENSG00000136932	TRMO	1.4	0.0072312	0.028219	2.290	0.452	2.020	2.812	1.625	0.256	1.390	1.898
15317	ENSG00000066651	TRMT11	1.1	0.0082113	0.0312226	50.400	2.517	47.916	52.948	45.839	1.727	44.827	47.833
15318	ENSG00000173113	TRMT112	-1.1	0.0913782	0.2005033	176.349	4.080	171.699	179.332	189.950	5.248	186.246	195.956
15319	ENSG00000099899	TRMT2A	-1.1	0.1030459	0.217852	11.461	0.277	11.278	11.780	12.759	0.632	12.086	13.339
15320	ENSG00000188917	TRMT2B	1.3	0.0023867	0.0117105	12.009	1.153	10.887	13.190	9.782	1.068	8.972	10.992
15322	ENSG00000171103	TRMT61B	1.1	0.0050968	0.0214595	35.229	0.407	34.829	35.641	31.438	1.370	30.124	32.858
15323	ENSG00000100416	TRMU	-1.1	0.0123802	0.0432618	12.409	1.162	11.631	13.744	14.461	1.688	12.513	15.455

	A	B	C	D	E	F	G	H	I	J	K	L	M
15324	ENSG00000180098	TRNAU1AP	1.2	0.005893	0.0240628	11.602	1.694	10.035	13.400	9.931	0.634	9.330	10.593
15325	ENSG00000253368	TRNP1	-1.2	0.0017706	0.0092397	30.732	0.786	30.084	31.606	37.230	1.203	35.894	38.229
15327	ENSG00000072756	TRNT1	1.1	0.0118061	0.0416697	24.718	0.988	23.646	25.593	22.748	1.459	21.902	24.432
15328	ENSG00000067445	TRO	-1.2	2.496E-05	0.0002871	25.061	0.890	24.374	26.066	30.145	1.142	29.421	31.461
15330	ENSG00000135451	TROAP	-1.1	0.0281463	0.0822174	25.184	0.992	24.529	26.325	28.229	1.342	26.904	29.587
15334	ENSG00000116747	TROVE2	-1.1	0.0374388	0.1016802	15.529	0.289	15.255	15.832	17.298	1.650	15.407	18.445
15335	ENSG00000144935	TRPC1	1.1	0.084984	0.1898678	14.775	0.509	14.217	15.214	13.833	1.288	12.629	15.191
15336	ENSG00000072315	TRPC5	-1.5	0.0396566	0.1062261	0.617	0.171	0.485	0.810	0.928	0.361	0.514	1.179
15340	ENSG00000083067	TRPM3	1.3	0.0015128	0.0081459	1.523	0.115	1.394	1.617	1.218	0.014	1.202	1.228
15341	ENSG00000130529	TRPM4	-1.2	0.0053935	0.0223884	3.965	0.151	3.799	4.094	4.919	0.159	4.751	5.068
15345	ENSG00000119121	TRPM6	1.2	0.1109898	0.2299354	0.902	0.062	0.835	0.956	0.754	0.103	0.635	0.817
15347	ENSG00000092439	TRPM7	1.2	1.164E-06	2.154E-05	23.138	1.616	21.273	24.135	19.273	0.603	18.586	19.716
15348	ENSG00000104447	TRPS1	-1.1	0.0843799	0.1889471	2.449	0.276	2.148	2.691	2.819	0.117	2.740	2.954
15350	ENSG00000149743	TRPT1	-1.1	0.0523922	0.1317438	14.632	0.555	14.157	15.242	16.828	0.870	15.952	17.692
15352	ENSG00000187688	TRPV2	-1.5	0.0401656	0.1073129	0.796	0.052	0.736	0.830	1.183	0.179	1.009	1.366
15353	ENSG00000165125	TRPV6	1.3	0.0995712	0.2125837	0.526	0.049	0.496	0.582	0.418	0.047	0.391	0.472
15355	ENSG00000196367	TRRAP	-1.1	0.0002266	0.001764	34.519	1.111	33.532	35.722	39.572	2.294	37.938	42.194
15356	ENSG00000165832	TRUB1	1.1	0.0077094	0.0297557	38.129	1.120	37.171	39.361	34.724	2.023	32.704	36.751
15357	ENSG00000102804	TSC22D1	-1.1	0.002133	0.0106604	36.507	2.177	34.014	38.028	41.367	1.823	39.263	42.470
15359	ENSG00000196428	TSC22D2	-1.1	0.0262703	0.0778438	5.954	0.455	5.539	6.441	6.830	0.405	6.424	7.233
15360	ENSG00000157514	TSC22D3	1.5	1.372E-08	4.895E-07	12.891	0.973	12.206	14.004	8.903	0.750	8.048	9.451
15361	ENSG00000198860	TSEN15	1.4	3.261E-10	1.851E-08	64.606	3.635	62.108	68.776	47.025	3.352	44.109	50.688
15365	ENSG00000182173	TSEN54	-1.2	0.0011262	0.0064679	16.000	1.034	14.812	16.696	19.716	1.707	18.726	21.687
15368	ENSG00000175513	TSGA10IP	-1.6	0.0170264	0.0556567	1.196	0.294	0.867	1.432	1.946	0.672	1.457	2.711
15369	ENSG00000121297	TSHZ3	1.2	0.0040627	0.0179755	6.212	0.622	5.816	6.929	5.265	0.177	5.078	5.431
15370	ENSG00000145777	TSLP	2.3	4.106E-06	6.263E-05	1.775	0.105	1.705	1.896	0.791	0.363	0.544	1.208
15372	ENSG00000211460	TSN	1.1	9.994E-06	0.0001335	80.966	1.347	79.753	82.416	71.984	1.375	70.408	72.935
15376	ENSG00000110900	TSPAN11	1.5	1.89E-06	3.238E-05	5.444	0.481	5.085	5.990	3.738	0.141	3.590	3.870
15379	ENSG00000106025	TSPAN12	1.1	0.0471966	0.1215763	14.928	1.413	13.598	16.411	13.668	0.328	13.379	14.024
15382	ENSG00000106537	TSPAN13	1.1	0.1153941	0.2359929	49.137	2.557	46.537	51.649	46.843	1.480	45.218	48.112
15383	ENSG00000108219	TSPAN14	-1.2	1.738E-05	0.0002108	6.718	0.538	6.215	7.285	8.376	0.442	7.958	8.838
15386	ENSG00000157570	TSPAN18	-1.2	0.0004405	0.0030129	7.706	0.839	6.941	8.603	9.783	0.602	9.099	10.233
15387	ENSG00000134198	TSPAN2	1.2	2.938E-05	0.0003276	22.604	0.554	22.269	23.243	18.718	0.474	18.402	19.263
15388	ENSG00000140391	TSPAN3	1.1	0.0281033	0.08212	36.082	1.211	34.768	37.152	34.366	1.694	32.432	35.584
15389	ENSG00000135452	TSPAN31	1.1	0.0193523	0.0613852	11.634	0.521	11.324	12.236	10.570	0.175	10.382	10.728
15390	ENSG00000214063	TSPAN4	1.1	0.0561359	0.1386479	19.482	0.662	18.773	20.083	18.350	0.644	17.814	19.065
15391	ENSG00000000003	TSPAN6	1.1	0.0568891	0.1399311	49.739	2.315	47.175	51.677	47.639	0.945	46.778	48.649
15392	ENSG00000156298	TSPAN7	1.1	0.1068965	0.2237827	7.667	0.406	7.329	8.118	6.948	0.441	6.588	7.440
15394	ENSG00000175894	TSPEAR	1.4	0.0190295	0.0606227	2.064	0.283	1.833	2.379	1.533	0.087	1.434	1.598
15399	ENSG00000182912	TSPEAR-AS2	1.2	0.1105621	0.2292713	4.472	0.306	4.294	4.825	3.913	0.287	3.695	4.238

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15400	ENSG00000189241	TSPYL1	1.1	0.0174875	0.0567361	61.905	1.334	60.372	62.801	58.571	0.714	58.104	59.393
15402	ENSG00000184205	TSPYL2	-1.1	0.0849066	0.1897246	10.221	1.281	8.743	11.020	11.589	0.491	11.221	12.147
15404	ENSG00000187189	TSPYL4	1.2	2.8E-05	0.0003155	27.393	0.448	26.986	27.872	22.912	1.119	21.799	24.038
15405	ENSG00000032389	TSSC1	-1.1	0.0371317	0.1010643	7.840	0.192	7.619	7.956	8.965	0.267	8.686	9.219
15408	ENSG00000223756	TSSC2	-1.1	0.0002127	0.0016724	88.627	2.833	85.400	90.706	103.617	7.183	95.323	107.826
15409	ENSG00000136925	TSTD2	1.1	0.1052572	0.2211524	19.675	0.500	19.100	20.008	18.846	0.484	18.528	19.403
15410	ENSG00000149292	TTC12	1.2	0.0080691	0.0308065	5.158	0.314	4.917	5.514	4.291	0.294	3.966	4.540
15411	ENSG00000052841	TTC17	-1.1	3.183E-05	0.0003507	24.910	0.429	24.507	25.361	29.250	0.690	28.608	29.979
15412	ENSG00000011295	TTC19	1.1	0.0070801	0.0277575	39.253	0.352	39.002	39.656	36.843	0.246	36.651	37.121
15413	ENSG00000103852	TTC23	-1.1	0.0280832	0.0820898	11.050	0.268	10.783	11.318	12.522	0.556	11.905	12.984
15414	ENSG00000205838	TTC23L	-1.4	0.0292534	0.0846328	1.370	0.104	1.251	1.446	1.897	0.203	1.666	2.042
15417	ENSG00000235954	TTC28-AS1	-1.1	0.0282175	0.0823685	3.427	0.143	3.330	3.592	4.003	0.202	3.773	4.149
15418	ENSG00000182670	TTC3	1.2	8.564E-06	0.0001167	15.539	0.198	15.357	15.751	13.389	0.182	13.220	13.581
15422	ENSG00000197557	TTC30A	1.3	0.0022512	0.0111364	3.153	0.147	3.032	3.316	2.454	0.220	2.225	2.664
15424	ENSG00000196659	TTC30B	1.3	0.0194488	0.0616105	3.609	0.437	3.169	4.043	2.924	0.380	2.513	3.261
15425	ENSG00000198677	TTC37	-1.1	0.0320753	0.0909726	45.209	1.705	44.040	47.165	49.277	0.859	48.301	49.918
15427	ENSG00000085831	TTC39A	1.3	0.0003422	0.002458	3.285	0.295	2.992	3.582	2.579	0.110	2.472	2.692
15433	ENSG00000155158	TTC39B	1.1	0.1246418	0.249919	5.959	0.535	5.555	6.566	5.620	0.086	5.547	5.714
15434	ENSG00000215105	TTC3P1	1.2	0.0241788	0.0730764	5.029	0.314	4.738	5.361	4.343	0.338	3.974	4.638
15436	ENSG00000243725	TTC4	1.2	0.1201037	0.2430383	3.261	0.201	3.041	3.435	2.842	0.441	2.439	3.312
15437	ENSG00000136319	TTC5	1.1	0.0776659	0.1773047	5.351	0.178	5.158	5.507	4.992	0.194	4.801	5.189
15439	ENSG00000133985	TTC9	1.3	4.102E-10	2.217E-08	33.116	1.142	31.838	34.039	25.228	0.854	24.291	25.962
15440	ENSG00000125482	TTF1	-1.1	0.0095255	0.0350229	17.803	1.344	16.773	19.324	20.779	0.409	20.433	21.231
15443	ENSG00000116830	TTF2	1.1	0.0341038	0.0952126	26.794	0.785	26.002	27.572	25.650	0.518	25.062	26.038
15444	ENSG00000101407	TTI1	-1.1	0.0877716	0.1943801	42.343	2.454	39.589	44.299	45.914	0.864	44.936	46.575
15447	ENSG00000112742	TTK	-1.2	2.742E-05	0.0003094	63.089	3.707	59.542	66.938	79.459	4.617	76.174	84.737
15450	ENSG00000114999	TTL	1.1	0.0059458	0.0242201	12.083	0.624	11.478	12.725	11.128	0.662	10.484	11.807
15451	ENSG00000100271	TTL1	1.4	2.848E-05	0.0003199	15.899	1.651	14.867	17.803	11.296	1.435	9.924	12.786
15453	ENSG00000162571	TTL10	-1.5	0.0697436	0.1634121	0.514	0.209	0.300	0.718	0.782	0.142	0.630	0.912
15454	ENSG00000100304	TTL12	-1.2	5.329E-06	7.844E-05	54.636	1.313	53.218	55.810	66.064	3.589	63.269	70.112
15456	ENSG00000135912	TTL4	-1.1	0.0776146	0.1772476	22.337	0.591	21.655	22.704	24.461	1.770	22.532	26.009
15457	ENSG00000170703	TTL6	-1.3	0.0161462	0.0535346	2.818	0.206	2.601	3.013	3.647	0.694	3.241	4.448
15463	ENSG00000137941	TTL7	-1.1	0.1186282	0.2408016	1.906	0.083	1.822	1.989	2.184	0.153	2.074	2.359
15464	ENSG00000124120	TTPAL	1.1	0.0429679	0.112927	8.844	0.625	8.122	9.208	8.117	0.694	7.605	8.907
15466	ENSG00000141540	TTYH2	-1.5	0.0013123	0.007282	1.341	0.304	1.017	1.621	2.067	0.256	1.775	2.254
15468	ENSG00000167552	TUBA1A	1.2	3.099E-08	9.819E-07	228.648	5.884	222.124	233.552	195.376	5.889	188.617	199.404
15469	ENSG00000167553	TUBA1C	1.1	0.005154	0.0216247	323.529	6.025	316.951	328.778	308.784	6.131	301.728	312.812
15470	ENSG00000127824	TUBA4A	1.2	0.000185	0.0015006	21.746	0.221	21.501	21.931	18.742	0.631	18.021	19.189
15471	ENSG00000137267	TUBB2A	1.3	3.96E-10	2.16E-08	463.849	32.854	438.717	501.025	352.612	19.370	333.894	372.574
15475	ENSG00000137285	TUBB2B	1.1	7.893E-06	0.000109	610.633	19.530	598.596	633.167	549.719	17.326	535.292	568.936
15480	ENSG00000216819	TUBB2BP1	1.2	0.0072639	0.0283205	58.626	2.820	56.577	61.843	51.633	3.287	47.932	54.214

	A	B	C	D	E	F	G	H	I	J	K	L	M
15481	ENSG00000104833	TUBB4A	-1.2	0.0138475	0.0473607	12.457	1.565	10.749	13.823	14.934	1.522	14.003	16.690
15485	ENSG00000188229	TUBB4B	-1.1	0.0012623	0.0070832	361.864	4.558	356.940	365.938	403.001	5.465	396.729	406.742
15488	ENSG00000176014	TUBB6	1.3	6.689E-08	1.908E-06	41.847	2.194	39.445	43.744	32.895	1.061	32.105	34.100
15489	ENSG00000127589	TUBBP1	-1.1	0.0302852	0.0869189	187.073	2.478	185.453	189.925	205.676	9.162	199.585	216.213
15492	ENSG00000159247	TUBBP5	1.2	0.1002846	0.2136431	5.894	0.666	5.149	6.431	5.144	0.356	4.734	5.371
15501	ENSG00000108423	TUBD1	-1.1	0.0785948	0.1790268	9.354	0.608	8.769	9.982	10.692	0.843	9.840	11.527
15502	ENSG00000074935	TUBE1	1.4	5.61E-08	1.652E-06	10.814	0.551	10.206	11.281	7.721	0.867	6.886	8.616
15503	ENSG00000131462	TUBG1	-1.1	0.0300801	0.0864331	79.225	2.425	76.959	81.783	87.570	1.954	85.336	88.958
15507	ENSG00000037042	TUBG2	-1.2	0.0010268	0.0060026	17.738	1.338	16.511	19.165	21.779	0.234	21.607	22.045
15510	ENSG00000126216	TUBGCP3	-1.1	0.024448	0.0736663	16.910	0.407	16.619	17.375	18.855	0.735	18.006	19.285
15511	ENSG00000128159	TUBGCP6	-1.2	0.0012474	0.0070138	12.958	0.014	12.942	12.970	15.473	1.343	14.502	17.005
15512	ENSG00000143367	TUFT1	1.1	0.0211406	0.06592	14.541	0.655	13.820	15.098	12.947	0.959	11.897	13.776
15513	ENSG00000112041	TULP1	-1.3	0.0547978	0.1363135	2.654	0.129	2.546	2.797	3.438	0.642	2.697	3.836
15514	ENSG00000130338	TULP4	1.1	0.0295622	0.0852926	6.246	0.111	6.117	6.314	5.692	0.090	5.587	5.746
15515	ENSG00000250366	TUNAR	1.1	0.1112264	0.2302254	68.915	3.221	66.996	72.634	66.761	2.618	63.942	69.116
15516	ENSG00000198680	TUSC1	-1.2	0.1156431	0.2364734	5.511	0.782	4.608	5.972	6.628	0.594	6.055	7.241
15517	ENSG00000104723	TUSC3	1.1	0.0657036	0.1560737	38.025	0.263	37.722	38.202	36.567	1.970	34.651	38.587
15518	ENSG00000166676	TVP23A	1.3	0.0244063	0.0736036	2.543	0.109	2.434	2.652	2.053	0.329	1.675	2.264
15519	ENSG00000171928	TVP23B	-1.2	0.006123	0.0247511	9.774	1.021	8.802	10.839	11.701	0.796	11.016	12.574
15520	ENSG00000122691	TWIST1	2.9	0.0006548	0.0041617	0.972	0.086	0.872	1.026	0.341	0.097	0.231	0.410
15521	ENSG00000105849	TWISTNB	1.1	0.0675045	0.1593891	28.544	0.911	27.546	29.329	26.974	1.038	25.982	28.053
15522	ENSG00000107815	TWNK	-1.2	1.588E-05	0.0001951	23.636	1.533	22.601	25.397	29.981	1.609	28.510	31.699
15523	ENSG00000128791	TWSG1	1.1	0.0247198	0.0743132	32.844	0.793	32.013	33.593	30.520	0.534	29.940	30.990
15524	ENSG00000086712	TXLNG	1.1	0.0260458	0.0773371	89.122	3.227	85.566	91.864	85.193	0.849	84.492	86.138
15525	ENSG00000117862	TXNDC12	1.1	0.0124112	0.0433342	86.681	0.598	86.067	87.260	82.100	1.322	81.329	83.627
15526	ENSG00000113621	TXNDC15	1.1	0.0036882	0.016621	15.604	0.096	15.535	15.714	13.972	0.437	13.471	14.276
15527	ENSG00000087301	TXNDC16	1.2	5.899E-06	8.541E-05	22.164	1.121	21.417	23.453	18.215	0.470	17.762	18.700
15528	ENSG00000129235	TXNDC17	-1.1	0.0792249	0.1801225	40.727	1.822	38.692	42.207	44.250	1.017	43.618	45.423
15530	ENSG00000265972	TXNIP	-1.5	0.0001113	0.000984	18.572	2.250	17.147	21.166	28.499	5.720	22.835	34.273
15531	ENSG00000198431	TXNRD1	1.4	1.65E-14	2.85E-12	102.092	2.023	99.772	103.493	76.700	0.871	75.705	77.323
15532	ENSG00000184470	TXNRD2	1.3	5.535E-06	8.105E-05	7.258	0.334	6.957	7.618	5.627	0.499	5.302	6.201
15533	ENSG00000197763	TXNRD3	1.4	4.236E-06	6.437E-05	14.871	0.906	13.879	15.654	10.941	1.165	9.614	11.794
15534	ENSG00000176912	TYMSOS	-1.2	0.0052497	0.0219071	39.351	3.926	36.784	43.870	49.700	9.164	39.302	56.598
15535	ENSG00000092445	TYRO3	1.1	0.0016343	0.0086865	25.660	2.068	23.452	27.550	23.061	1.794	21.248	24.835
15536	ENSG00000198874	TYW1	-1.1	0.0563011	0.1389833	14.517	0.288	14.204	17.771	16.240	0.217	16.088	16.488
15537	ENSG00000160201	U2AF1	-1.1	0.0017805	0.0092769	24.803	0.517	24.266	25.297	27.936	0.675	27.157	28.355
15538	ENSG00000275895	U2AF1L5	-1.1	0.0027841	0.0132875	23.413	0.298	23.224	23.757	26.279	0.719	25.460	26.806
15539	ENSG00000137831	UACA	1.1	0.0757556	0.1738002	21.188	0.231	20.921	21.322	20.377	0.661	19.920	21.135
15540	ENSG00000117143	UAP1	1.1	0.0408168	0.1086215	32.180	1.585	30.408	33.464	30.279	1.611	28.805	31.998
15541	ENSG00000197355	UAP1L1	1.3	0.0006341	0.0040556	7.524	0.356	7.131	7.825	5.797	0.755	4.968	6.444
15542	ENSG00000130985	UBA1	-1.1	0.0012409	0.0069866	187.670	8.688	178.472	195.738	209.827	8.331	200.850	217.311
15543	ENSG00000126261	UBA2	-1.1	0.0047695	0.0204065	159.956	5.569	156.162	166.349	176.203	3.143	172.575	178.099
15544	ENSG00000221983	UBA52	-1	0.0614549	0.1482432	171.608	1.269	170.556	173.018	183.950	4.929	180.834	189.633

	A	B	C	D	E	F	G	H	I	J	K	L	M
15545	ENSG00000248049	UBA6-AS1	1.1	0.1065102	0.2231673	5.581	0.360	5.244	5.959	5.147	0.085	5.050	5.209
15546	ENSG00000228889	UBAC2-AS1	-1.6	0.0039295	0.0175367	2.314	0.090	2.252	2.418	3.762	0.693	3.015	4.385
15547	ENSG00000185262	UBALD2	1.1	0.0724349	0.168209	21.071	0.925	20.312	22.102	19.244	2.308	16.593	20.801
15548	ENSG00000165006	UBAP1	-1.1	0.0166524	0.0547603	38.224	0.278	38.001	38.536	43.036	1.930	41.010	44.852
15549	ENSG00000143569	UBAP2L	1.1	0.0799796	0.181205	74.807	2.417	72.120	76.806	72.590	2.858	69.575	75.259
15550	ENSG00000077721	UBE2A	1.1	0.0647053	0.1542488	32.073	0.962	31.146	33.067	30.612	2.026	29.228	32.938
15551	ENSG00000175063	UBE2C	-1.3	8.45E-10	4.216E-08	270.935	15.555	256.611	287.482	353.099	15.292	337.650	368.228
15552	ENSG00000072401	UBE2D1	1.1	0.0043763	0.0190717	52.266	2.029	49.925	53.508	47.251	0.508	46.866	47.826
15553	ENSG00000109332	UBE2D3	1.1	0.0186489	0.0596365	109.203	1.308	107.709	110.141	105.311	2.041	103.300	107.381
15554	ENSG00000078967	UBE2D4	1.2	0.0796269	0.1805993	3.112	0.171	2.915	3.224	2.699	0.356	2.290	2.939
15555	ENSG00000182247	UBE2E2	-1.1	0.0150734	0.0506363	27.128	0.521	26.530	27.481	30.864	1.383	29.267	31.672
15556	ENSG00000170035	UBE2E3	-1.1	0.009772	0.0357737	49.743	1.501	48.233	51.234	55.706	1.000	54.553	56.320
15557	ENSG00000184182	UBE2F	1.1	0.0400451	0.1070801	7.426	0.189	7.234	7.611	6.626	0.326	6.321	6.970
15558	ENSG00000132388	UBE2G1	-1.1	0.0074748	0.0289958	90.533	1.543	88.836	91.854	100.849	2.962	99.063	104.269
15559	ENSG00000184787	UBE2G2	-1.1	0.0961846	0.207602	50.239	1.880	48.539	52.258	54.164	2.028	51.900	55.813
15560	ENSG00000186591	UBE2H	1.1	0.0189986	0.0605356	79.498	3.697	75.254	82.021	75.817	1.532	74.775	77.576
15561	ENSG00000198833	UBE2J1	1.2	4.486E-06	6.75E-05	28.344	1.416	27.447	29.976	23.357	1.028	22.299	24.353
15562	ENSG00000160087	UBE2J2	-1.1	0.0452121	0.1176286	15.337	0.854	14.418	16.106	17.284	1.472	15.589	18.240
15563	ENSG00000078140	UBE2K	1.2	9.074E-06	0.0001226	153.393	1.843	151.840	155.430	136.152	2.397	133.937	138.696
15564	ENSG00000156587	UBE2L6	1.1	0.0073738	0.0286303	53.467	0.932	52.754	54.522	48.728	2.503	45.957	50.824
15565	ENSG00000175931	UBE2O	-1.2	0.000221	0.0017311	21.987	0.648	21.262	22.508	27.302	3.746	24.140	31.439
15566	ENSG00000160714	UBE2Q1	1.1	0.0512607	0.1294031	38.394	1.267	37.094	39.624	36.721	0.456	36.203	37.061
15567	ENSG00000140367	UBE2Q2	1.1	0.040312	0.1076068	37.294	2.220	35.570	39.799	35.200	0.937	34.309	36.176
15569	ENSG00000259429	UBE2Q2P2	-1.2	0.0240689	0.0727963	11.139	0.979	10.080	12.011	13.572	0.956	12.930	14.671
15570	ENSG00000108106	UBE2S	-1.3	0.0052556	0.0219207	97.502	4.682	92.134	100.742	126.124	16.970	109.414	143.343
15571	ENSG00000233966	UBE2SP1	-1.2	0.0002057	0.0016275	217.509	8.526	208.432	225.348	260.485	9.619	254.430	271.577
15572	ENSG00000077152	UBE2T	1.1	0.0078144	0.0300691	117.359	7.887	108.976	124.632	107.196	6.334	101.346	113.922
15573	ENSG00000244687	UBE2V1	-1.1	0.0622034	0.1497147	5.037	0.426	4.643	5.489	5.897	0.071	5.854	5.979
15574	ENSG00000159202	UBE2Z	-1.1	0.0004207	0.0029092	36.634	1.584	35.031	38.198	42.204	1.333	41.192	43.715
15575	ENSG00000151148	UBE3B	1.1	0.0104889	0.0378975	8.831	0.437	8.376	9.248	7.982	0.408	7.625	8.427
15576	ENSG00000009335	UBE3C	-1.1	0.0534042	0.1335568	27.366	1.004	26.210	28.008	29.664	0.625	29.072	30.318
15577	ENSG00000118420	UBE3D	-1.2	0.0015902	0.0084898	4.363	0.230	4.136	4.595	5.573	0.295	5.283	5.873
15578	ENSG00000120942	UBIAD1	-1.1	0.0588662	0.1435209	9.691	0.295	9.384	9.971	10.923	0.263	10.705	11.215
15580	ENSG00000198258	UBL5	-1.1	0.0014217	0.0077492	101.452	2.680	98.519	103.773	116.994	4.624	111.834	120.762
15582	ENSG00000164332	UBLCP1	1.1	0.0054707	0.02265	75.980	4.657	71.109	80.388	69.621	3.666	65.692	72.949
15583	ENSG00000118900	UBN1	-1.1	0.0007084	0.0044129	22.235	0.637	21.773	22.962	25.811	1.985	23.519	26.992
15584	ENSG00000157741	UBN2	1.1	0.0738512	0.1705415	11.137	0.191	10.966	11.342	10.693	0.459	10.388	11.221
15585	ENSG00000153560	UBP1	1.1	0.0013281	0.0073485	35.066	1.700	33.114	36.224	32.214	1.365	30.778	33.494
15586	ENSG00000160803	UBQLN4	-1.1	0.0094987	0.0349322	28.340	1.761	26.670	30.179	32.305	0.683	31.709	33.050

	A	B	C	D	E	F	G	H	I	J	K	L	M
15587	ENSG00000241627	UBQLN4P1	-1.3	0.0027611	0.0132027	11.677	0.877	10.821	12.574	15.078	0.531	14.471	15.458
15588	ENSG00000144357	UBR3	-1.1	0.1163069	0.2376009	14.051	0.375	13.710	14.452	15.287	0.850	14.322	15.921
15589	ENSG00000127481	UBR4	-1.3	1.49E-12	1.591E-10	44.043	1.203	42.772	45.163	58.750	2.654	55.883	61.121
15590	ENSG00000104517	UBR5	-1.2	7.507E-10	3.836E-08	91.428	2.792	88.564	94.142	114.635	4.509	109.641	118.409
15591	ENSG00000012963	UBR7	1.1	0.0041874	0.0184193	43.881	1.958	41.847	45.754	40.184	0.364	39.802	40.528
15592	ENSG00000165886	UBTD1	-1.1	0.0968172	0.2083834	23.845	1.311	23.036	25.358	26.884	1.330	25.398	27.961
15593	ENSG00000108312	UBTF	1.2	2.908E-05	0.0003251	39.416	2.259	36.821	40.948	34.260	2.407	32.480	36.998
15594	ENSG00000162191	UBXN1	-1.1	0.0135014	0.0464026	73.068	0.689	72.353	73.728	81.162	1.984	78.896	82.585
15596	ENSG00000162543	UBXN10	-1.7	0.052743	0.1323897	0.248	0.082	0.159	0.321	0.428	0.061	0.359	0.477
15597	ENSG00000173960	UBXN2A	1.1	0.0082458	0.0312904	11.755	1.328	10.391	13.044	10.473	0.257	10.290	10.767
15598	ENSG00000215114	UBXN2B	1.2	0.0004322	0.0029739	26.684	1.660	24.801	27.940	23.696	0.570	23.039	24.054
15599	ENSG00000144224	UBXN4	1.1	0.0005977	0.0038731	102.573	3.403	99.994	106.430	94.920	1.470	93.864	96.600
15600	ENSG00000163960	UBXN7	-1.1	0.0003473	0.0024865	50.204	1.586	48.709	51.868	57.083	1.848	55.884	59.211
15601	ENSG00000154277	UCHL1	1.1	0.0001895	0.0015281	500.374	14.142	484.104	509.709	463.561	11.142	451.199	472.829
15603	ENSG00000118939	UCHL3	-1.1	0.1070716	0.224066	11.613	0.520	11.083	12.122	13.324	0.944	12.391	14.280
15604	ENSG00000130717	UCK1	-1.1	0.0288909	0.0838134	25.105	1.221	23.722	26.036	28.481	0.328	28.103	28.684
15605	ENSG00000165623	UCMA	-1.9	0.0003397	0.0024416	3.276	0.626	2.671	3.921	6.420	1.207	5.058	7.358
15607	ENSG00000070010	UFD1	-1.1	0.0096878	0.0355036	13.882	0.521	13.301	14.308	15.793	1.310	14.310	16.793
15608	ENSG00000014123	UFL1	1.1	0.0095934	0.0352323	44.353	1.339	43.420	45.887	41.287	2.247	39.729	43.863
15609	ENSG00000120686	UFM1	-1.1	0.0014593	0.0079055	58.067	2.441	56.575	60.884	67.455	6.994	62.038	75.350
15610	ENSG00000176125	UFSP1	1.4	0.0848223	0.1896113	4.065	0.373	3.706	4.450	3.040	0.246	2.807	3.298
15611	ENSG00000148154	UGCG	-1.1	0.1127622	0.232324	28.156	0.873	27.214	28.940	30.515	0.698	29.714	30.991
15612	ENSG00000109814	UGDH	1.1	0.0590049	0.1437761	56.737	2.411	53.984	58.475	54.369	2.697	51.407	56.683
15613	ENSG00000136731	UGGT1	1.2	1.229E-05	0.000159	32.333	1.856	31.060	34.462	28.305	0.317	27.954	28.572
15614	ENSG00000102595	UGGT2	1.1	0.0641149	0.1532578	15.421	1.063	14.300	16.415	14.600	0.315	14.241	14.825
15615	ENSG00000169764	UGP2	-1.1	0.0305896	0.0875792	421.591	4.988	416.158	425.963	454.212	7.038	448.010	461.861
15616	ENSG00000168671	UGT3A2	1.2	0.0021859	0.0108638	32.594	0.653	32.143	33.343	28.953	1.984	26.921	30.885
15618	ENSG00000174607	UGT8	1.1	0.0023908	0.0117171	34.891	1.404	33.871	36.493	31.784	1.371	30.787	33.347
15619	ENSG00000152332	UHMK1	-1.3	2.656E-08	8.672E-07	24.474	0.496	23.921	24.879	31.506	1.709	29.730	33.139
15621	ENSG00000276043	UHRF1	1.3	2.202E-05	0.0002582	11.622	0.736	10.790	12.190	9.120	0.474	8.677	9.619
15622	ENSG00000065060	UHRF1BP1	1.3	9.32E-09	3.511E-07	26.362	2.386	23.664	28.194	20.781	0.113	20.674	20.900
15623	ENSG00000111647	UHRF1BP1 L	-1.3	1.879E-06	3.223E-05	16.118	0.454	15.606	16.469	20.746	1.859	19.084	22.753
15624	ENSG00000087206	UIMC1	-1.1	0.0080966	0.0308716	20.937	1.287	19.460	21.823	23.938	0.384	23.496	24.193
15625	ENSG00000111981	ULBP1	2.2	0.0001448	0.0012231	2.615	0.348	2.224	2.892	1.223	0.646	0.791	1.965
15626	ENSG00000083290	ULK2	1.2	0.0016684	0.0088428	5.914	0.286	5.670	6.229	5.081	0.146	4.951	5.238
15627	ENSG00000178081	ULK4P3	1.5	0.0367122	0.1003684	2.347	0.225	2.193	2.605	1.620	0.094	1.537	1.723
15628	ENSG00000219545	UMAD1	1.1	0.0509833	0.1289104	10.213	0.276	9.995	10.523	9.186	1.026	8.320	10.319
15629	ENSG00000114491	UMPS	1.1	0.0390684	0.1050166	18.200	0.418	17.751	18.577	17.243	0.541	16.618	17.561

	A	B	C	D	E	F	G	H	I	J	K	L	M
15630	ENSG00000109103	UNC119	-1.1	0.0467929	0.1206967	24.279	0.387	24.027	24.724	26.654	0.674	26.014	27.358
15631	ENSG00000198722	UNC13B	1.1	0.0443222	0.1157724	21.735	0.263	21.476	22.001	20.904	1.056	19.972	22.051
15632	ENSG00000113763	UNC5A	-1.4	0.0010943	0.0063294	4.420	0.598	3.864	5.054	6.128	0.249	5.862	6.355
15633	ENSG00000107731	UNC5B	1.1	0.0072738	0.028346	28.969	1.278	28.057	30.429	26.516	2.227	24.907	29.058
15634	ENSG00000182168	UNC5C	-2.8	0.0002043	0.0016197	0.115	0.028	0.084	0.138	0.334	0.057	0.276	0.390
15635	ENSG00000156687	UNC5D	-1.2	3.663E-05	0.0003944	20.680	1.640	19.491	22.551	25.035	1.693	23.088	26.158
15636	ENSG00000076248	UNG	1.1	0.0036944	0.0166446	159.442	8.601	149.658	165.812	148.224	6.540	140.882	153.424
15637	ENSG00000132478	UNK	-1.1	0.0933829	0.2033195	11.891	0.665	11.123	12.296	13.145	0.566	12.513	13.606
15638	ENSG00000005007	UPF1	-1.1	0.0003974	0.0027834	41.427	1.500	40.207	43.102	47.697	2.261	45.940	50.248
15640	ENSG00000214832	UPF3AP2	1.3	0.0043004	0.0188036	14.890	0.885	14.210	15.890	12.031	0.362	11.816	12.449
15641	ENSG00000105668	UPK1A	-2.2	0.0019791	0.0100882	1.083	0.493	0.654	1.621	2.440	0.745	1.946	3.297
15642	ENSG00000226510	UPK1A-AS1	-1.4	0.1018351	0.21594	2.110	0.378	1.687	2.414	3.135	0.508	2.754	3.712
15643	ENSG00000243566	UPK3B	-1.4	0.0268467	0.0791319	1.954	0.622	1.333	2.576	2.780	0.244	2.499	2.940
15644	ENSG00000183696	UPP1	1.9	9.37E-14	1.34E-11	23.477	2.495	21.353	26.226	12.855	0.984	11.740	13.600
15645	ENSG00000094841	UPRT	1.1	0.1145705	0.2348764	15.658	0.639	14.925	16.097	14.581	1.340	13.066	15.612
15646	ENSG00000101019	UQCC1	-1.2	5.847E-08	1.705E-06	30.090	1.310	28.581	30.935	38.315	1.546	36.798	39.888
15647	ENSG00000204922	UQCC3	-1.1	0.0897599	0.1977712	15.010	0.902	14.161	15.957	16.989	0.626	16.450	17.675
15648	ENSG00000184076	UQCR10	-1.1	0.0082448	0.0312904	172.095	6.949	166.075	179.699	194.325	9.455	184.952	203.859
15649	ENSG00000156467	UQCRB	-1.1	0.0016884	0.0089239	53.408	1.502	51.741	54.656	60.120	2.087	57.743	61.651
15650	ENSG00000237748	UQCRBP1	-1.2	0.1056356	0.2217109	27.809	3.385	25.577	31.704	34.256	1.142	33.278	35.511
15652	ENSG00000140740	UQCRC2	-1.1	0.0155908	0.0520121	89.339	0.454	89.006	89.856	97.397	1.418	95.807	98.532
15653	ENSG00000169021	UQCRFS1	-1.1	0.0060823	0.0246275	77.612	1.579	75.864	78.935	87.338	7.388	79.259	93.749
15654	ENSG00000233954	UQCRHL	1.1	0.0317897	0.0903601	128.161	3.518	124.359	131.300	122.240	5.910	117.299	128.787
15655	ENSG00000164405	UQCRQ	-1.1	0.1174913	0.2393268	73.319	1.594	71.962	75.074	79.634	2.815	76.489	81.918
15656	ENSG00000222019	URAFP	1.4	0.0130994	0.0453067	3.145	0.209	2.966	3.374	2.264	0.232	1.997	2.406
15657	ENSG00000142207	URB1	-1.1	0.0001676	0.001381	16.908	0.421	16.564	17.378	19.805	1.179	18.455	20.633
15658	ENSG00000135763	URB2	-1.1	0.1020013	0.2161839	16.619	0.375	16.372	17.050	18.111	0.692	17.353	18.710
15659	ENSG00000106608	URGCP	1.1	0.0682007	0.1606517	7.934	0.519	7.335	8.258	7.368	0.116	7.259	7.490
15661	ENSG00000167118	URM1	-1.1	0.0271662	0.0798647	16.015	0.262	15.828	16.315	18.134	1.627	16.689	19.896
15662	ENSG00000126088	UROD	1.2	0.0005224	0.0034706	40.718	1.255	39.450	41.960	35.722	1.096	34.606	36.796
15663	ENSG00000188690	UROS	1.2	0.000589	0.003824	14.886	0.462	14.421	15.346	13.017	0.640	12.285	13.466
15664	ENSG00000103005	USB1	1.1	0.019336	0.0613563	17.451	0.376	17.060	17.810	16.368	0.761	15.558	17.069
15665	ENSG00000053501	USE1	1.2	0.0778029	0.177486	10.276	0.680	9.867	11.061	9.112	0.773	8.299	9.838
15666	ENSG00000103194	USP10	1	0.1144103	0.2345765	78.402	1.728	76.473	79.810	76.775	1.611	75.752	78.633
15667	ENSG00000058056	USP13	1.1	0.0511379	0.129224	27.054	1.039	26.408	28.253	25.907	0.699	25.112	26.425
15668	ENSG00000135655	USP15	-1.1	0.0183507	0.0589711	5.684	0.529	5.171	6.227	6.475	0.081	6.411	6.566
15670	ENSG00000184979	USP18	1.5	0.0191171	0.0608398	1.940	0.348	1.538	2.142	1.271	0.418	0.798	1.589
15671	ENSG00000172046	USP19	-1.2	3.027E-05	0.0003359	30.454	1.672	28.873	32.203	36.684	2.034	34.604	38.670
15672	ENSG00000036672	USP2	-1.4	0.0126925	0.0441339	1.806	0.081	1.725	1.887	2.531	0.883	1.985	3.550
15673	ENSG00000155313	USP25	1.2	1.514E-06	2.687E-05	40.248	1.284	38.898	41.453	34.597	1.229	33.291	35.733
15674	ENSG00000048028	USP28	1.1	0.0461476	0.1193965	94.090	2.866	90.797	96.022	91.111	1.386	89.557	92.218
15675	ENSG00000140455	USP3	1.1	0.0184222	0.0591655	8.032	0.427	7.569	8.411	7.238	0.511	6.881	7.824

	A	B	C	D	E	F	G	H	I	J	K	L	M
15676	ENSG00000103404	USP31	1.1	0.0072424	0.0282561	5.929	0.396	5.517	6.307	5.289	0.075	5.234	5.374
15677	ENSG00000170832	USP32	1.1	0.0160568	0.0533219	63.981	5.340	59.933	70.032	59.284	5.511	53.142	63.794
15678	ENSG00000118369	USP35	-1.3	0.0048746	0.0207564	4.380	0.564	3.924	5.011	5.619	0.273	5.312	5.836
15679	ENSG00000114316	USP4	1.2	0.0001094	0.0009706	22.982	1.307	21.684	24.298	20.024	0.791	19.353	20.896
15680	ENSG00000106346	USP42	-1.1	0.0291327	0.0843702	7.178	0.188	7.061	7.394	8.292	0.865	7.730	9.288
15681	ENSG00000136014	USP44	1	0.109249	0.2273289	112.816	2.457	110.325	115.238	110.426	4.815	105.164	114.613
15682	ENSG00000109189	USP46	-1.2	1.988E-08	6.699E-07	26.914	1.196	25.896	28.231	34.124	0.880	33.160	34.886
15684	ENSG00000170242	USP47	1.1	0.025496	0.0760788	18.238	0.861	17.652	19.226	17.224	0.647	16.542	17.829
15686	ENSG00000247746	USP51	1.2	0.0012735	0.0071228	9.570	0.701	8.979	10.345	7.901	0.636	7.169	8.316
15687	ENSG00000145390	USP53	1.3	6.194E-07	1.287E-05	10.308	0.310	10.086	10.663	8.274	0.405	8.031	8.742
15688	ENSG00000166348	USP54	1.3	1.938E-07	4.841E-06	17.197	0.406	16.742	17.521	13.875	0.926	13.037	14.869
15689	ENSG00000124486	USP9X	-1.1	0.0052498	0.0219071	276.222	26.388	249.152	301.871	311.110	6.479	306.282	318.474
15690	ENSG00000132952	USPL1	-1.1	0.1132441	0.2330325	19.630	1.167	18.285	20.381	21.453	0.882	20.484	22.208
15691	ENSG00000111962	UST	-1.3	4.383E-07	9.65E-06	33.474	3.534	30.759	37.469	46.016	3.955	42.713	50.399
15692	ENSG00000183520	UTP11	1.1	0.0152489	0.0511107	38.549	1.481	36.971	39.910	35.959	0.645	35.577	36.703
15693	ENSG0000011260	UTP18	-1.1	0.002312	0.0114	76.606	4.041	72.330	80.361	87.185	0.806	86.468	88.057
15694	ENSG00000141076	UTP4	-1.1	0.003647	0.0164835	26.481	0.881	25.859	27.488	30.308	1.449	29.083	31.907
15695	ENSG00000108651	UTP6	-1.1	0.0011891	0.006753	29.124	1.465	28.180	30.811	33.325	0.442	32.962	33.817
15696	ENSG00000152818	UTRN	-1.1	0.0001501	0.0012595	38.457	0.235	38.199	38.660	44.102	0.858	43.234	44.950
15697	ENSG00000198382	UVRAG	1.1	0.0560596	0.1385152	10.089	0.132	9.945	10.204	9.354	0.638	8.854	10.073
15698	ENSG00000163945	UVSSA	-1.2	0.011098	0.039616	6.204	0.262	6.032	6.505	7.354	0.590	6.735	7.910
15700	ENSG00000115652	UXS1	1.2	7.246E-06	0.0001012	24.032	1.390	22.487	25.181	20.359	0.780	19.775	21.244
15701	ENSG00000103043	VAC14	1.1	0.0036101	0.016343	21.632	0.070	21.569	21.708	19.776	1.081	18.592	20.712
15702	ENSG00000220205	VAMP2	-1.1	0.0111005	0.0396166	14.701	0.897	13.734	15.506	17.273	0.522	16.894	17.868
15703	ENSG00000124333	VAMP7	1.1	0.0075259	0.0291604	45.872	1.121	45.193	47.167	42.124	0.089	42.050	42.222
15704	ENSG00000101558	VAPA	-1.1	0.0008899	0.0053088	29.461	0.203	29.283	29.682	33.634	2.226	31.066	35.012
15705	ENSG00000204394	VARS	-1.1	0.0310099	0.0885779	56.086	0.611	55.419	56.620	61.699	5.110	57.921	67.513
15706	ENSG00000137411	VARS2	-1.1	0.0363043	0.0995484	12.554	0.307	12.286	12.889	13.969	0.380	13.571	14.329
15708	ENSG00000071246	VASH1	1.2	0.0069547	0.0273927	8.524	1.129	7.607	9.784	7.346	0.262	7.058	7.572
15709	ENSG00000168140	VASN	1.4	3.889E-07	8.724E-06	24.992	2.812	21.784	27.025	17.923	1.918	15.718	19.210
15710	ENSG00000125753	VASP	1.1	0.0019426	0.0099413	88.791	4.434	84.913	93.625	81.763	4.467	78.554	86.864
15711	ENSG00000108828	VAT1	1.2	1.985E-07	4.934E-06	239.829	5.546	234.857	245.811	206.436	13.500	198.460	222.023
15712	ENSG00000171724	VAT1L	1.7	1.29E-17	4.94E-15	83.271	2.930	80.021	85.708	50.334	0.638	49.676	50.950
15713	ENSG00000155959	VBP1	-1.1	0.0013042	0.0072498	112.770	1.172	111.575	113.917	128.946	5.676	124.363	135.296
15714	ENSG00000038427	VCAN	1.2	4.551E-06	6.836E-05	122.743	3.252	120.577	126.482	108.381	3.167	104.919	111.132
15716	ENSG00000035403	VCL	1.6	1.55E-20	1.19E-17	380.572	17.235	361.458	394.929	243.557	5.456	237.581	248.271
15717	ENSG00000175073	VCP1P1	-1.2	0.0027073	0.0130006	6.698	0.390	6.414	7.143	7.972	0.409	7.708	8.443
15718	ENSG00000100483	VCPKMT	-1.1	0.099393	0.2124126	12.853	0.280	12.542	13.084	14.635	0.240	14.384	14.861
15719	ENSG00000112715	VEGFA	1.8	4.82E-17	1.54E-14	16.804	1.219	15.449	17.814	9.707	0.755	9.113	10.557
15720	ENSG00000173511	VEGFB	1.2	0.0351926	0.0973113	21.926	1.058	21.229	23.143	19.373	1.809	18.294	21.461
15722	ENSG00000197415	VEPH1	1.3	4.526E-05	0.0004722	7.466	0.439	6.961	7.754	5.881	0.333	5.497	6.086
15724	ENSG00000028203	VEZT	1.1	0.0050699	0.0213676	21.687	0.653	21.294	22.440	19.974	0.865	19.092	20.820
15725	ENSG00000128564	VGF	2.9	6.045E-07	1.262E-05	59.389	9.605	50.249	69.400	21.305	4.044	16.656	24.009

	A	B	C	D	E	F	G	H	I	J	K	L	M
15726	ENSG00000206538	VGLL3	1.4	1.391E-07	3.625E-06	7.618	0.355	7.289	7.995	5.713	0.446	5.252	6.143
15727	ENSG00000136059	VILL	-1.3	0.0016299	0.0086686	1.891	0.137	1.756	2.030	2.593	0.050	2.536	2.629
15729	ENSG00000114812	VIPR1	-1.2	0.0346912	0.0963119	2.943	0.215	2.699	3.107	3.554	0.065	3.491	3.622
15731	ENSG00000106018	VIPR2	-1.5	0.0042961	0.0187982	1.021	0.233	0.763	1.217	1.567	0.146	1.408	1.695
15732	ENSG00000167397	VKORC1	-1.2	0.032622	0.0921247	12.235	0.728	11.764	13.073	14.421	0.050	14.389	14.479
15734	ENSG00000147852	VLDLR	-1.1	0.0003539	0.0025273	29.488	1.636	27.637	30.741	34.488	2.141	32.078	36.169
15735	ENSG00000236404	VLDLR-AS1	1.1	0.0915423	0.2007592	6.142	0.726	5.323	6.706	5.577	0.549	5.068	6.159
15736	ENSG00000160131	VMA21	-1.1	0.0509991	0.1289308	40.001	0.833	39.039	40.505	43.621	1.795	42.306	45.666
15737	ENSG00000062716	VMP1	1.1	0.0073053	0.0284558	53.433	1.886	51.471	55.232	49.799	3.666	46.234	53.558
15738	ENSG00000228038	VN1R51P	-1.6	0.0010821	0.0062717	5.221	1.404	3.941	6.723	8.648	1.025	7.779	9.778
15739	ENSG00000197969	VPS13A	1.1	0.0007357	0.0045514	16.253	0.639	15.624	16.902	14.707	0.856	14.003	15.659
15740	ENSG00000129003	VPS13C	1.3	1.39E-08	4.948E-07	17.124	0.034	17.093	17.161	13.816	0.804	13.247	14.736
15741	ENSG00000048707	VPS13D	-1.1	0.000351	0.0025105	12.299	0.333	11.972	12.639	14.317	0.810	13.449	15.053
15743	ENSG00000104142	VPS18	1.1	0.0947009	0.205554	18.412	0.481	18.067	18.962	17.357	1.097	16.157	18.309
15744	ENSG00000122958	VPS26A	1.1	0.0250301	0.075046	50.258	1.382	49.399	51.852	47.389	1.816	45.348	48.826
15745	ENSG00000111237	VPS29	1.1	0.0048831	0.0207786	35.097	2.462	33.014	37.815	31.514	2.176	29.030	33.082
15746	ENSG00000139719	VPS33A	1.2	0.0010164	0.0059542	8.516	0.362	8.119	8.829	7.294	0.211	7.154	7.536
15747	ENSG00000069329	VPS35	1.1	0.0342396	0.0953913	31.171	0.769	30.630	32.051	29.964	0.198	29.758	30.153
15748	ENSG00000136100	VPS36	1.4	4.497E-09	1.855E-07	27.938	0.644	27.365	28.635	20.512	1.831	18.637	22.296
15749	ENSG00000155975	VPS37A	1.1	0.0034631	0.0158109	21.838	0.876	20.907	22.645	19.886	0.667	19.250	20.580
15750	ENSG00000139722	VPS37B	1.2	0.011622	0.0411821	3.609	0.492	3.051	3.979	2.957	0.213	2.719	3.131
15751	ENSG00000176428	VPS37D	-1.6	0.0004139	0.0028676	3.675	0.271	3.362	3.848	6.148	0.351	5.771	6.466
15752	ENSG00000006715	VPS41	1.2	1.947E-07	4.856E-06	29.817	0.452	29.298	30.118	24.829	0.656	24.168	25.479
15753	ENSG00000136631	VPS45	1.2	0.0009659	0.0056983	17.943	0.973	16.987	18.933	15.725	0.508	15.218	16.234
15754	ENSG00000119541	VPS4B	1.1	0.0041933	0.0184355	36.452	0.934	35.390	37.149	33.391	1.844	31.389	35.019
15756	ENSG00000004766	VPS50	1.2	0.0158923	0.0528484	5.724	0.354	5.329	6.013	5.023	0.033	4.996	5.059
15757	ENSG00000149823	VPS51	-1.1	0.0368039	0.1004784	33.468	1.394	31.978	34.739	37.129	2.740	33.973	38.891
15758	ENSG00000223501	VPS52	1.1	0.1210921	0.2445118	22.415	1.693	20.460	23.425	21.217	1.998	19.290	23.279
15760	ENSG00000141252	VPS53	1.1	0.0790562	0.1799325	3.965	0.377	3.546	4.277	3.712	0.177	3.515	3.857
15761	ENSG00000163159	VPS72	-1.1	0.0213881	0.066447	30.138	1.131	28.912	31.141	33.614	0.907	32.570	34.205
15762	ENSG00000156931	VPS8	1.1	0.0274346	0.0804579	17.112	0.859	16.590	18.103	16.138	0.395	15.746	16.536
15763	ENSG00000261373	VPS9D1-AS1	-1.2	0.1010088	0.2145643	5.800	0.460	5.269	6.068	7.122	1.050	6.113	8.208
15764	ENSG00000100749	VRK1	1.1	0.1182642	0.2403451	82.697	2.322	80.277	84.906	80.484	0.652	79.738	80.950
15765	ENSG00000028116	VRK2	1.1	0.096554	0.2080205	20.511	1.384	19.361	22.048	19.239	0.948	18.146	19.834
15766	ENSG00000105053	VRK3	1.1	0.0901963	0.1985836	6.632	0.590	6.179	7.300	6.171	0.417	5.690	6.434
15768	ENSG00000133980	VRTN	-1.2	4.474E-08	1.36E-06	99.961	5.166	94.056	103.644	127.242	9.154	116.946	134.463
15769	ENSG00000101842	VSIG1	-1.4	0.0057649	0.0236541	1.821	0.069	1.764	1.897	2.580	0.043	2.531	2.612
15770	ENSG00000176834	VSIG10	1.2	4.368E-06	6.601E-05	23.329	0.862	22.382	24.070	20.020	0.517	19.427	20.379
15771	ENSG00000132821	VSTM2L	1.5	0.087896	0.1945536	1.438	0.352	1.055	1.749	1.006	0.185	0.793	1.118
15772	ENSG00000165633	VSTM4	1.3	0.0407817	0.1085863	1.235	0.047	1.181	1.266	0.968	0.069	0.888	1.008
15773	ENSG00000179403	VWA1	1.3	2.145E-06	3.602E-05	16.584	0.727	15.796	17.228	12.897	1.160	12.050	14.219

	A	B	C	D	E	F	G	H	I	J	K	L	M
15774	ENSG00000188730	VWC2	-1.2	0.1165534	0.2379321	0.826	0.139	0.712	0.980	1.015	0.033	0.990	1.052
15775	ENSG00000146530	VWDE	-1.1	0.0358887	0.0986488	26.022	1.436	24.524	27.387	28.832	0.686	28.260	29.593
15776	ENSG00000095787	WAC	-1.1	0.0025617	0.0124037	41.514	2.006	40.068	43.804	46.304	0.874	45.489	47.226
15777	ENSG00000254635	WAC-AS1	-1.1	0.0605557	0.1466883	17.256	1.194	16.457	18.629	19.546	0.428	19.109	19.964
15778	ENSG00000062650	WAPL	-1.1	0.0233616	0.0712432	41.123	1.512	39.845	42.793	44.988	1.350	43.579	46.270
15780	ENSG00000140105	WARS	1.6	1.71E-18	8.06E-16	59.268	0.348	58.867	59.496	38.170	0.571	37.738	38.817
15781	ENSG00000116874	WARS2	-1.2	0.0028478	0.0134877	8.021	0.212	7.834	8.252	9.996	0.168	9.838	10.173
15782	ENSG00000158195	WASF2	-1.1	0.0060628	0.0245664	75.848	4.250	70.961	78.679	84.565	5.192	79.948	90.186
15783	ENSG00000188459	WASF4P	-1.2	0.0216424	0.0670892	11.500	2.064	9.685	13.746	14.489	1.928	13.069	16.684
15784	ENSG00000185596	WASH3P	-1.2	0.0178518	0.0576747	15.835	0.877	14.829	16.440	18.618	0.684	18.095	19.392
15785	ENSG00000182484	WASH6P	-1.1	0.0668985	0.158334	4.748	0.465	4.216	5.072	5.571	0.101	5.468	5.669
15786	ENSG00000227232	WASH7P	-1.2	0.0211341	0.0659121	20.137	0.926	19.381	21.170	24.143	1.296	22.674	25.127
15787	ENSG00000099290	WASHC2A	1.3	2.011E-10	1.219E-08	41.552	0.915	40.937	42.604	31.688	1.581	29.890	32.860
15789	ENSG00000172661	WASHC2C	1.4	1.96E-12	2.037E-10	39.383	0.348	39.132	39.781	28.736	0.600	28.370	29.428
15790	ENSG00000120860	WASHC3	1.5	2.007E-05	0.0002385	7.978	0.314	7.692	8.313	5.489	0.270	5.270	5.790
15791	ENSG00000164961	WASHC5	1.1	0.022736	0.0697125	46.064	2.907	43.724	49.318	43.467	1.626	42.140	45.280
15792	ENSG00000084463	WBP11	-1.1	0.0041064	0.0181432	72.260	2.240	69.961	74.436	80.319	1.729	78.629	82.084
15793	ENSG00000166272	WBP1L	1.1	0.0154174	0.0515925	19.887	1.164	19.153	21.229	18.075	0.696	17.309	18.669
15795	ENSG00000132471	WBP2	1.1	0.0041966	0.0184357	28.517	0.884	27.620	29.389	26.094	1.161	25.192	27.404
15796	ENSG00000185274	WBSCR17	1.1	0.00671259	0.1588276	27.266	1.241	26.467	28.696	25.967	0.842	25.222	26.880
15797	ENSG00000085449	WDFY1	1.1	1.344E-05	0.0001714	101.760	1.887	99.920	103.690	90.966	2.441	88.461	93.337
15798	ENSG00000139668	WDFY2	1.2	1.541E-06	2.726E-05	14.158	0.429	13.701	14.552	12.035	0.109	11.908	12.099
15799	ENSG00000163625	WDFY3	-1.1	0.0002506	0.0019137	13.120	0.317	12.788	13.419	15.186	0.760	14.327	15.772
15801	ENSG00000198554	WDHD1	1.2	2.566E-08	8.46E-07	89.181	5.120	83.361	92.994	73.750	2.720	72.116	76.889
15802	ENSG00000143951	WDPCP	1.3	0.000131	0.0011277	3.071	0.328	2.777	3.425	2.360	0.170	2.211	2.545
15803	ENSG00000071127	WDR1	1.2	2.693E-09	1.181E-07	152.928	1.776	151.134	154.686	129.278	2.778	127.079	132.401
15804	ENSG00000120008	WDR11	1.1	0.0817623	0.184601	24.216	0.572	23.556	24.554	23.451	0.524	22.853	23.827
15805	ENSG00000101940	WDR13	-1.1	0.0716934	0.1668801	4.697	0.409	4.232	5.003	5.379	0.470	4.869	5.793
15806	ENSG00000150627	WDR17	-1.1	0.0543163	0.1353745	3.958	0.124	3.816	4.047	4.604	0.287	4.276	4.809
15807	ENSG00000065268	WDR18	-1.1	0.0163902	0.0540998	49.386	3.601	47.136	53.539	55.801	3.376	51.920	58.061
15808	ENSG00000157796	WDR19	1.1	0.0479478	0.1229631	16.144	0.509	15.658	16.673	15.292	0.417	14.821	15.617
15809	ENSG00000127580	WDR24	-1.2	0.0017473	0.0091632	11.164	1.173	10.008	12.353	13.857	0.546	13.323	14.413
15810	ENSG00000162923	WDR26	1.2	2.839E-07	6.688E-06	51.218	3.041	48.769	54.622	43.517	1.731	41.518	44.528
15811	ENSG00000184465	WDR27	-1.4	7.11E-09	2.746E-07	11.141	1.167	10.355	12.481	15.616	0.523	15.222	16.210
15812	ENSG00000065183	WDR3	-1.1	0.0110062	0.0393713	21.485	1.447	20.039	22.933	23.965	0.682	23.442	24.737
15813	ENSG00000136709	WDR33	-1.1	0.0528908	0.1326624	17.039	0.215	16.806	17.230	18.443	0.322	18.092	18.724
15814	ENSG00000119333	WDR34	1.1	0.0041528	0.0183001	36.052	2.479	33.963	38.791	32.098	1.413	30.634	33.454
15815	ENSG00000118965	WDR35	1.4	1.232E-10	7.832E-09	17.875	0.104	17.758	17.956	12.871	0.682	12.415	13.655
15816	ENSG00000047056	WDR37	-1.1	0.0409294	0.1087742	7.436	0.512	7.059	8.019	8.589	0.158	8.409	8.704
15817	ENSG00000160193	WDR4	1.1	0.0701305	0.1640777	17.669	0.922	16.759	18.604	16.365	0.472	15.880	16.823
15818	ENSG00000164253	WDR41	1.1	0.0388571	0.1045303	23.963	0.403	23.525	24.317	22.772	0.894	21.740	23.313
15819	ENSG00000196998	WDR45	1.1	0.0607892	0.1471487	5.851	0.532	5.257	6.283	5.195	0.520	4.607	5.594
15820	ENSG00000141580	WDR45B	-1.1	0.0270569	0.0796266	84.859	1.221	83.451	85.639	92.399	1.604	90.696	93.880

	A	B	C	D	E	F	G	H	I	J	K	L	M
15821	ENSG00000265574	WDR45BP 1	1.6	0.0509084	0.1287594	2.761	0.785	1.865	3.330	1.801	0.230	1.541	1.976
15822	ENSG00000196363	WDR5	-1.1	0.0032825	0.015138	54.611	0.343	54.355	55.000	61.890	3.339	59.612	65.723
15823	ENSG00000005448	WDR54	-1.3	0.0002747	0.0020629	20.656	2.724	18.636	23.754	27.261	3.996	24.916	31.874
15824	ENSG00000103091	WDR59	-1.1	0.020365	0.0639617	17.491	0.502	16.998	18.001	19.379	0.511	18.889	19.909
15825	ENSG00000178252	WDR6	-1.2	8.812E-08	2.439E-06	92.339	1.617	91.056	94.155	112.389	3.671	109.811	116.592
15826	ENSG00000126870	WDR60	1.6	3.84E-12	3.545E-10	25.688	1.500	24.775	27.419	16.712	1.123	15.630	17.873
15827	ENSG00000140395	WDR61	-1.1	0.0342564	0.0954137	17.222	0.389	16.795	17.557	19.024	0.806	18.273	19.875
15829	ENSG00000075702	WDR62	-1.1	0.0104485	0.0378079	11.188	0.427	10.761	11.615	12.963	1.447	11.622	14.496
15830	ENSG00000158023	WDR66	1.9	1.513E-06	2.687E-05	0.946	0.109	0.823	1.027	0.518	0.106	0.414	0.626
15831	ENSG00000115368	WDR75	-1.1	0.0027539	0.0131758	66.906	2.142	64.964	69.203	74.828	1.565	73.021	75.735
15832	ENSG00000092470	WDR76	1.3	9.948E-05	0.0009002	14.861	1.943	12.853	16.733	11.926	0.245	11.663	12.148
15833	ENSG00000164091	WDR82	-1.1	0.0015163	0.0081621	56.804	0.623	56.123	57.344	63.723	1.164	62.954	65.062
15834	ENSG00000161996	WDR90	-1.1	0.1082457	0.2258524	4.560	0.164	4.399	4.726	5.091	0.292	4.769	5.337
15835	ENSG00000105875	WDR91	1.1	0.047639	0.1223566	6.368	0.548	5.923	6.980	5.744	0.295	5.450	6.041
15836	ENSG00000196151	WDSUB1	1.2	0.0166987	0.0548611	15.284	0.730	14.445	15.777	13.240	1.069	12.148	14.285
15837	ENSG00000142784	WDC1	1.1	0.0065051	0.0259359	17.092	0.988	16.103	18.079	15.402	0.858	14.434	16.071
15838	ENSG00000166483	WEE1	1.4	1.45E-13	1.91E-11	60.324	3.194	58.423	64.011	43.904	2.395	41.199	45.754
15839	ENSG00000101443	WFDC2	1.2	0.0005591	0.0036667	49.736	3.997	45.191	52.703	41.415	0.890	40.454	42.212
15840	ENSG00000261040	WFDC21P	2.4	0.0955866	0.2068128	0.583	0.337	0.271	0.940	0.247	0.230	0.000	0.456
15841	ENSG00000127578	WFIKKN1	-1.3	0.0089908	0.0333982	4.618	0.739	4.119	5.467	5.931	0.833	5.253	6.861
15842	ENSG00000156232	WHAMM	-1.2	0.0088594	0.033048	3.523	0.198	3.345	3.737	4.429	0.165	4.251	4.577
15843	ENSG00000115935	WIPF1	1.3	0.0034416	0.015732	3.145	0.172	3.006	3.337	2.551	0.261	2.287	2.809
15844	ENSG00000070540	WIPI1	1.3	1.718E-06	2.971E-05	21.019	1.934	18.804	22.378	16.076	0.456	15.747	16.596
15845	ENSG00000011451	WIZ	-1.2	0.0011877	0.0067475	12.759	1.034	11.567	13.411	15.694	1.927	14.038	17.810
15846	ENSG00000060237	WNK1	1	0.0732506	0.1696642	61.585	2.228	59.027	63.106	60.090	2.250	58.035	62.494
15847	ENSG00000165238	WNK2	-1.2	0.0023905	0.0117171	11.408	0.831	10.460	12.011	13.655	1.492	12.414	15.310
15848	ENSG00000134245	WNT2B	-1.6	0.0017967	0.0093445	0.440	0.061	0.376	0.498	0.717	0.103	0.606	0.810
15850	ENSG00000108379	WNT3	1.3	0.0480897	0.1232493	1.504	0.191	1.295	1.669	1.176	0.140	1.075	1.335
15851	ENSG00000162552	WNT4	-2.3	1.652E-05	0.0002017	0.610	0.215	0.362	0.751	1.440	0.136	1.290	1.555
15852	ENSG00000075290	WNT8B	-1.5	0.0459434	0.119045	1.403	0.373	0.979	1.679	2.119	0.372	1.691	2.371
15854	ENSG00000143816	WNT9A	-1.3	0.0289183	0.0838641	2.225	0.105	2.139	2.342	2.888	0.063	2.816	2.933
15855	ENSG00000141499	WRAP53	-1.1	0.0139678	0.0476875	10.395	0.109	10.274	10.485	12.056	0.510	11.468	12.368
15856	ENSG00000116213	WRAP73	-1.2	0.0005183	0.003454	10.811	0.128	10.667	10.912	12.966	0.345	12.642	13.328
15857	ENSG00000165392	WRN	-1.1	0.0342364	0.0953913	42.945	2.443	41.332	45.756	47.315	3.403	43.800	50.593
15858	ENSG00000124535	WRNIP1	-1.3	7.389E-06	0.0001029	21.201	0.943	20.328	22.202	27.273	1.232	25.957	28.400
15859	ENSG00000109046	WSB1	-1.2	1.631E-05	0.0001994	61.510	2.705	58.718	64.118	73.220	2.542	70.381	75.285
15860	ENSG00000176871	WSB2	1.2	0.0003094	0.0022661	31.224	0.988	30.118	32.018	27.419	1.587	26.410	29.249
15861	ENSG00000179314	WSCD1	-1.4	1.892E-07	4.748E-06	14.027	1.528	12.713	15.704	19.447	1.888	17.288	20.785
15862	ENSG00000142279	WTIP	1.1	0.0742201	0.1711362	4.386	0.168	4.193	4.497	4.037	0.550	3.460	4.555
15863	ENSG00000113645	WWC1	-1.2	0.000375	0.0026513	10.028	1.075	8.792	10.750	12.244	1.067	11.082	13.178
15865	ENSG00000047644	WWC3	-1.2	6.48E-06	9.225E-05	21.055	1.003	20.373	22.207	26.570	2.906	23.402	29.113

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15866	ENSG00000018408	WWTR1	1.3	6.311E-06	9E-05	13.046	1.257	11.838	14.347	10.493	0.807	9.562	10.968
15867	ENSG00000076924	XAB2	-1.2	3.931E-06	6.033E-05	34.522	2.216	31.974	36.010	43.353	2.422	40.877	45.718
15869	ENSG00000100219	XBP1	1.2	1.384E-06	2.495E-05	74.465	2.952	71.967	77.723	63.102	3.583	59.340	66.475
15870	ENSG00000124343	XG	-1.5	0.001415	0.0077222	2.402	0.324	2.148	2.768	3.744	0.543	3.369	4.367
15871	ENSG00000229807	XIST	-1.1	0.0048338	0.020624	7.081	0.584	6.561	7.712	8.191	0.611	7.803	8.896
15872	ENSG00000047597	XK	1.4	0.0022306	0.0110502	2.628	0.358	2.355	3.034	1.892	0.377	1.667	2.327
15873	ENSG00000206579	XKR4	1.4	0.0624007	0.1501257	0.213	0.018	0.195	0.230	0.158	0.030	0.126	0.185
15874	ENSG00000275591	XKR5	1.1	0.1212023	0.2446759	6.508	0.569	5.869	6.959	5.991	0.248	5.706	6.155
15875	ENSG00000260903	XKR7	1.3	0.0533964	0.1335568	1.921	0.264	1.656	2.184	1.548	0.382	1.128	1.874
15877	ENSG00000158156	XKR8	-1.2	0.0060841	0.0246291	14.913	0.123	14.828	15.054	18.024	1.271	16.730	19.272
15879	ENSG00000221947	XKR9	1.4	0.0191552	0.0609198	2.251	0.215	2.005	2.404	1.665	0.497	1.154	2.148
15880	ENSG00000136936	XPA	1.2	0.0629129	0.1511748	6.273	1.202	5.446	7.652	5.213	0.501	4.778	5.761
15881	ENSG00000196236	XPNPEP3	-1.1	0.0096249	0.0353116	6.926	0.285	6.600	7.129	7.979	0.053	7.923	8.029
15882	ENSG00000132953	XPO4	1.1	0.0002114	0.0016647	35.491	0.608	34.820	36.006	32.292	1.190	31.001	33.346
15883	ENSG00000124571	XPO5	-1.1	0.0772204	0.1764426	53.781	0.508	53.444	54.366	57.740	2.608	55.146	60.361
15884	ENSG00000184575	XPOT	1.3	4.92E-13	5.62E-11	138.430	2.061	136.590	140.657	106.639	3.872	102.552	110.253
15885	ENSG00000214185	XPOTP1	1.3	0.00053	0.0035124	11.841	0.626	11.329	12.539	9.326	1.001	8.635	10.474
15886	ENSG00000143324	XPR1	-1.1	0.000794	0.0048428	31.680	0.857	30.841	32.554	36.208	2.122	34.556	38.601
15887	ENSG00000152422	XRCC4	-1.1	0.047563	0.1221801	16.589	0.655	15.900	17.203	18.854	1.049	17.642	19.462
15888	ENSG00000079246	XRCC5	-1.1	0.000239	0.0018431	419.693	4.493	414.607	423.124	470.012	3.939	465.835	473.659
15890	ENSG00000234825	XRCC6P2	-1.1	0.0169725	0.0555449	39.398	2.472	36.628	41.376	44.986	0.789	44.393	45.881
15892	ENSG00000114127	XRN1	-1.1	0.0204639	0.0642326	8.793	0.338	8.555	9.180	9.934	0.507	9.449	10.460
15893	ENSG00000088930	XRN2	-1.2	3.522E-08	1.095E-06	206.064	5.887	201.170	212.596	249.487	2.864	246.211	251.520
15894	ENSG00000173950	XXYL1	1.1	0.0189007	0.0603259	12.405	0.330	12.174	12.783	11.262	0.743	10.644	12.086
15895	ENSG00000093217	XYLB	1.5	0.0051083	0.0214812	1.441	0.213	1.299	1.687	0.971	0.253	0.756	1.249
15896	ENSG00000103489	XYLT1	-1.2	6.19E-05	0.0006108	8.791	0.456	8.480	9.315	10.924	1.041	9.724	11.584
15897	ENSG00000015532	XYLT2	1.1	0.0093771	0.0345673	23.435	2.094	21.626	25.729	21.356	0.810	20.434	21.951
15898	ENSG00000015153	YAF2	1.5	0.0271406	0.0798035	0.337	0.034	0.300	0.368	0.227	0.057	0.188	0.293
15899	ENSG00000137693	YAP1	1.1	0.0318629	0.09051	112.189	3.094	109.162	115.345	108.215	1.488	107.201	109.924
15900	ENSG00000134684	YARS	1.3	4.375E-10	2.349E-08	75.607	4.669	70.227	78.583	60.539	2.773	57.661	63.192
15901	ENSG00000182362	YBEY	-1.1	0.0867228	0.1927388	22.891	1.906	20.695	24.119	25.959	0.144	25.792	26.044
15902	ENSG00000127337	YEATS4	-1.1	0.0452502	0.1177047	55.171	2.533	52.752	57.803	61.382	2.103	59.589	63.696
15903	ENSG00000176105	YES1	1.1	0.0254632	0.0760477	134.493	9.953	125.647	145.271	128.193	6.703	122.555	135.604
15904	ENSG00000167645	YIF1B	1.1	0.0331728	0.0932445	41.936	1.690	40.368	43.725	39.329	1.830	37.597	41.243
15905	ENSG00000058799	YIPF1	1.2	0.0052976	0.022063	37.795	1.142	36.507	38.684	33.371	1.412	31.815	34.571
15906	ENSG00000130733	YIPF2	-1.2	0.0008132	0.004935	33.743	1.725	32.661	35.732	40.338	1.133	39.226	41.491
15907	ENSG00000145817	YIPF5	-1.2	0.0005859	0.0038117	32.508	1.151	31.520	33.771	38.659	2.674	36.003	41.350
15908	ENSG00000250067	YJEFN3	1.3	0.0435523	0.1142192	3.102	0.530	2.669	3.692	2.424	0.272	2.152	2.696
15909	ENSG00000106636	YKT6	-1.1	0.0003281	0.0023705	64.257	2.922	61.853	67.510	74.444	4.198	70.130	78.516
15910	ENSG00000119596	YLPM1	1.1	0.0770705	0.1761715	23.591	1.040	22.450	24.487	22.866	0.549	22.341	23.437
15911	ENSG00000136758	YME1L1	-1.1	0.0281766	0.0822819	69.309	1.183	68.542	70.672	75.106	2.005	72.897	76.811
15913	ENSG00000180667	YOD1	-1.3	3.518E-07	7.998E-06	15.926	0.434	15.655	16.426	21.224	1.914	19.064	22.713
15916	ENSG00000175155	YPEL2	-1.1	0.0802998	0.1817381	2.273	0.158	2.166	2.455	2.660	0.181	2.491	2.851

	A	B	C	D	E	F	G	H	I	J	K	L	M
15917	ENSG00000090238	YPEL3	-1.3	0.0005189	0.003456	10.864	0.288	10.632	11.186	14.050	1.836	12.645	16.127
15918	ENSG00000119801	YPEL5	1.2	1.552E-06	2.741E-05	39.665	1.594	38.152	41.329	32.576	0.967	31.904	33.684
15919	ENSG00000196449	YRDC	-1.3	0.0006376	0.004074	23.108	3.303	19.337	25.486	29.647	3.513	27.131	33.661
15921	ENSG00000083896	YTHDC1	-1.1	0.0038407	0.017171	61.765	1.649	60.532	63.638	68.754	1.932	66.634	70.414
15927	ENSG00000047188	YTHDC2	1.3	9.706E-07	1.861E-05	14.298	0.959	13.227	15.080	11.586	0.460	11.125	12.045
15928	ENSG00000270673	YTHDF3-AS1	-1.5	0.0725149	0.1682826	2.681	1.346	1.440	4.113	4.229	1.056	3.028	5.010
15929	ENSG00000166913	YWHAB	1.2	2.075E-07	5.103E-06	121.134	2.022	118.824	122.579	105.785	3.310	102.045	108.336
15930	ENSG00000108953	YWHAE	-1.1	0.0011253	0.0064671	663.454	10.567	657.180	675.654	734.155	6.853	729.571	742.033
15932	ENSG00000128245	YWHAH	-1.1	0.0022782	0.0112533	195.595	4.250	191.523	200.003	218.059	4.185	213.626	221.942
15934	ENSG00000134308	YWHAQ	-1.1	0.0076606	0.0295808	467.592	14.024	455.610	483.016	511.500	13.761	499.614	526.576
15935	ENSG00000100811	YY1	-1.1	0.0003836	0.0027022	50.965	1.802	49.274	52.861	58.035	2.592	55.049	59.708
15938	ENSG00000163374	YY1AP1	-1.1	0.0049684	0.021042	17.532	0.919	16.702	18.520	20.423	0.895	19.693	21.421
15939	ENSG00000132846	ZBED3	1.4	7.172E-06	0.0001003	7.195	0.739	6.618	8.028	5.201	0.401	4.765	5.555
15940	ENSG00000250802	ZBED3-AS1	1.6	0.0004482	0.0030555	1.653	0.274	1.337	1.816	1.049	0.052	1.005	1.107
15941	ENSG00000100426	ZBED4	-1.2	7.552E-05	0.0007184	24.850	1.515	23.105	25.832	29.815	1.581	28.264	31.425
15942	ENSG00000188707	ZBED6CL	-1.2	0.0332098	0.0933018	6.328	0.515	5.740	6.699	7.901	1.795	6.036	9.616
15943	ENSG00000126804	ZBTB1	1.1	0.0912909	0.2004678	22.104	0.450	21.617	22.504	21.112	0.249	20.901	21.386
15944	ENSG00000204366	ZBTB12	-1.2	0.0002347	0.0018169	33.942	1.226	32.915	35.300	41.563	1.236	40.320	42.791
15946	ENSG00000116809	ZBTB17	-1.2	0.0009781	0.0057581	10.005	0.532	9.617	10.612	12.705	1.597	11.135	14.327
15947	ENSG00000179456	ZBTB18	-1.2	0.0024719	0.0120552	16.141	0.327	15.944	16.518	19.098	0.385	18.671	19.420
15948	ENSG00000173276	ZBTB21	1.2	0.0007385	0.0045621	12.850	0.804	11.941	13.469	11.070	0.572	10.573	11.696
15949	ENSG00000171448	ZBTB26	-1.2	0.0021509	0.0107311	19.598	1.065	18.860	20.820	23.140	1.502	21.431	24.252
15950	ENSG00000185670	ZBTB3	-1.1	0.0641016	0.1532578	11.134	0.179	10.988	11.334	12.785	1.026	11.772	13.823
15951	ENSG00000177125	ZBTB34	-1.1	0.008239	0.0312904	16.211	0.302	15.946	16.539	18.500	1.202	17.496	19.831
15952	ENSG00000185278	ZBTB37	-1.2	9.243E-05	0.0008482	7.620	0.266	7.432	7.924	9.148	0.637	8.561	9.826
15953	ENSG00000177311	ZBTB38	1.3	2.013E-05	0.0002385	5.428	0.262	5.126	5.591	4.386	0.360	4.066	4.776
15955	ENSG00000166860	ZBTB39	-1.1	0.0085971	0.0322616	23.092	2.660	20.029	24.823	26.475	0.942	25.573	27.452
15957	ENSG00000184677	ZBTB40	-1.5	5.50E-11	3.842E-09	8.804	1.156	7.655	9.967	13.777	0.589	13.126	14.272
15958	ENSG00000169155	ZBTB43	-1.2	0.0001138	0.0010028	8.795	0.314	8.548	9.148	10.951	0.504	10.531	11.510
15959	ENSG00000196323	ZBTB44	-1.4	1.22E-11	9.954E-10	30.469	1.412	29.475	32.085	42.178	2.481	40.281	44.986
15961	ENSG00000114853	ZBTB47	-1.2	0.1141666	0.2342562	3.839	0.490	3.358	4.337	4.572	0.596	4.149	5.253
15963	ENSG00000168795	ZBTB5	-1.1	0.0020102	0.0102016	26.349	1.000	25.672	27.498	30.479	0.946	29.469	31.343
15964	ENSG00000273274	ZBTB8B	-1.3	9.473E-06	0.0001277	2.735	0.034	2.705	2.773	3.735	0.061	3.666	3.784
15965	ENSG00000176261	ZBTB8OS	1.1	0.0810192	0.1831188	20.623	2.058	18.294	22.194	19.124	2.272	16.632	21.079
15967	ENSG00000104427	ZC2HC1A	1.4	3.034E-06	4.822E-05	16.782	0.754	15.926	17.350	12.646	0.532	12.334	13.260
15968	ENSG00000135482	ZC3H10	-1.2	0.003464	0.0158109	3.040	0.114	2.950	3.168	3.787	0.284	3.468	4.010
15969	ENSG00000215817	ZC3H11B	-1.3	0.0005863	0.0038117	5.343	0.504	4.777	5.741	7.045	0.586	6.635	7.717
15971	ENSG00000163874	ZC3H12A	1.2	0.0081998	0.0311979	10.440	1.397	9.231	11.969	8.819	0.582	8.210	9.371
15974	ENSG00000149289	ZC3H12C	1.3	6.392E-05	0.0006278	3.292	0.045	3.253	3.342	2.498	0.228	2.301	2.747
15976	ENSG00000100722	ZC3H14	1.1	0.0266255	0.0786442	13.645	0.596	13.104	14.283	13.026	0.326	12.674	13.318
15977	ENSG00000065548	ZC3H15	-1.1	0.0882219	0.1951474	87.005	4.546	82.829	91.847	94.072	1.397	92.981	95.646

	A	B	C	D	E	F	G	H	I	J	K	L	M
15978	ENSG00000158545	ZC3H18	-1.1	0.0007467	0.0045992	17.718	0.545	17.289	18.330	20.756	1.138	19.448	21.517
15980	ENSG00000014164	ZC3H3	-1.1	0.0290436	0.0841553	12.855	0.360	12.632	13.270	14.870	1.064	13.736	15.845
15982	ENSG00000188177	ZC3H6	-1.3	2.498E-06	4.113E-05	6.885	0.212	6.715	7.122	9.037	0.710	8.573	9.855
15984	ENSG00000122299	ZC3H7A	-1.2	0.0001667	0.0013757	23.406	1.089	22.171	24.225	27.923	1.294	27.061	29.410
15986	ENSG00000100403	ZC3H7B	1.1	0.0071891	0.0281132	42.687	1.285	41.214	43.584	40.319	1.706	38.388	41.622
15989	ENSG00000105939	ZC3HAV1	1.1	0.0123182	0.0430773	26.297	0.398	25.871	26.660	24.598	1.446	22.985	25.780
15990	ENSG00000134744	ZCCHC11	-1.1	0.0612723	0.1480002	12.972	0.323	12.751	13.343	14.141	0.342	13.776	14.454
15991	ENSG00000140948	ZCCHC14	-1.3	8.556E-07	1.677E-05	13.477	0.646	12.731	13.865	17.677	1.360	16.455	19.142
15992	ENSG00000247315	ZCCHC3	-1.1	0.0421562	0.1113332	60.952	2.268	58.723	63.257	66.802	1.388	65.241	67.894
15993	ENSG00000147905	ZCCHC7	-1.2	0.0006482	0.0041291	20.633	0.951	19.556	21.359	24.766	1.929	23.244	26.935
15994	ENSG00000033030	ZCCHC8	1.2	0.0001353	0.0011548	10.178	0.198	10.042	10.405	8.785	0.068	8.732	8.862
15995	ENSG00000159714	ZDHHC1	-1.2	0.0851228	0.190031	2.589	0.058	2.535	2.650	3.234	0.489	2.866	3.789
15996	ENSG00000188818	ZDHHC11	1.2	0.0296365	0.0854342	3.039	0.451	2.576	3.477	2.552	0.102	2.435	2.617
15999	ENSG00000160446	ZDHHC12	1.1	0.0428338	0.1126144	20.247	0.376	19.907	20.651	18.304	1.365	17.158	19.813
16000	ENSG00000186908	ZDHHC17	1.1	0.0610923	0.1476922	22.879	0.303	22.636	23.219	21.800	0.389	21.487	22.236
16001	ENSG00000204160	ZDHHC18	1.1	0.0294348	0.0849831	18.575	1.115	17.356	19.541	17.232	0.227	16.970	17.376
16003	ENSG00000163958	ZDHHC19	-1.4	0.0318391	0.0904578	1.544	0.466	1.275	2.083	2.242	0.518	1.853	2.830
16004	ENSG00000104219	ZDHHC2	1.2	0.0001287	0.001111	18.832	0.588	18.471	19.511	16.278	0.279	16.026	16.577
16005	ENSG00000175893	ZDHHC21	1.3	6.011E-06	8.655E-05	11.652	0.756	10.795	12.225	8.870	0.563	8.280	9.401
16006	ENSG00000177108	ZDHHC22	-1.2	0.0059902	0.0243365	14.267	0.169	14.119	14.451	16.925	1.605	15.297	18.507
16007	ENSG00000184307	ZDHHC23	1.2	0.0005105	0.003417	12.146	0.553	11.583	12.688	10.416	0.456	10.139	10.942
16008	ENSG00000136247	ZDHHC4	1.2	0.0008477	0.0051132	30.522	1.338	29.678	32.065	26.850	0.431	26.426	27.288
16009	ENSG00000153786	ZDHHC7	-1.1	0.0499891	0.1269278	35.569	1.983	33.292	36.921	39.466	3.210	35.844	41.963
16010	ENSG00000099904	ZDHHC8	-1.2	0.0004404	0.0030129	12.620	1.268	11.156	13.400	15.931	1.532	14.768	17.666
16012	ENSG00000188706	ZDHHC9	1.2	0.0021343	0.0106639	18.642	0.973	17.533	19.346	16.535	0.796	16.011	17.451
16013	ENSG00000237036	ZEB1-AS1	-1.3	0.0048225	0.0205853	5.606	0.263	5.396	5.900	7.275	0.300	7.101	7.621
16014	ENSG00000160445	ZER1	1.1	0.0239862	0.0726308	24.917	1.746	22.974	26.354	23.040	0.596	22.684	23.728
16015	ENSG00000104231	ZFAND1	1.1	0.0342305	0.0953913	29.744	2.599	27.942	32.724	27.779	1.125	27.128	29.077
16016	ENSG00000178381	ZFAND2A	1.6	2.884E-05	0.0003226	8.290	1.391	6.866	9.644	5.426	0.152	5.280	5.583
16017	ENSG00000158552	ZFAND2B	1.3	0.0028145	0.0133974	6.630	0.266	6.391	6.917	5.286	0.129	5.209	5.434
16018	ENSG00000156639	ZFAND3	1.2	8.387E-05	0.000782	42.463	2.285	40.021	44.549	37.114	0.827	36.388	38.015
16019	ENSG00000107372	ZFAND5	-1.2	8.809E-06	0.0001197	89.147	3.799	85.783	93.267	105.620	5.215	99.640	109.225
16022	ENSG00000086666	ZFAND6	-1.1	0.0228221	0.0699005	77.795	0.607	77.095	78.163	84.851	2.899	82.381	88.042
16023	ENSG00000177410	ZFAS1	-1.2	9.649E-05	0.0008779	62.764	1.560	61.441	64.484	75.490	3.385	72.098	78.868
16024	ENSG00000066827	ZFAT	-1.3	0.0020346	0.0102968	2.296	0.355	1.908	2.605	3.121	0.651	2.373	3.563
16025	ENSG00000136367	ZFHX2	1.2	0.0006066	0.003916	10.003	0.573	9.446	10.590	8.529	0.577	8.112	9.188
16026	ENSG00000140836	ZFHX3	-1.8	0.0019364	0.0099214	0.200	0.022	0.177	0.221	0.367	0.113	0.257	0.483
16033	ENSG00000091656	ZFHX4	-1.4	0.0005365	0.0035444	0.670	0.034	0.631	0.693	0.988	0.109	0.897	1.109
16034	ENSG00000142065	ZFP14	-1.1	0.12322	0.2477436	6.988	0.392	6.662	7.423	7.735	0.333	7.483	8.113
16035	ENSG00000196867	ZFP28	1.1	0.0555138	0.1375685	4.800	0.207	4.678	5.039	4.357	0.278	4.059	4.610
16036	ENSG00000128016	ZFP36	1.3	0.0062613	0.0251895	11.716	1.294	10.651	13.157	9.429	0.945	8.422	10.296
16037	ENSG00000185650	ZFP36L1	1.1	0.0181178	0.058389	135.775	9.946	125.040	144.676	124.031	12.109	110.184	132.636
16038	ENSG00000152518	ZFP36L2	1.1	0.0600214	0.1456445	51.530	3.683	48.815	55.722	48.824	3.702	45.424	52.768

	A	B	C	D	E	F	G	H	I	J	K	L	M
16040	ENSG00000179059	ZFP42	-1.1	3.928E-05	0.0004189	153.416	3.124	149.813	155.380	178.669	5.515	174.594	184.944
16041	ENSG00000204644	ZFP57	2	1.136E-05	0.0001485	4.982	1.262	3.813	6.321	2.530	0.448	2.023	2.873
16042	ENSG00000020256	ZFP64	-1.1	0.0364502	0.0998033	8.221	0.285	7.960	8.525	9.397	0.756	8.723	10.215
16043	ENSG00000181007	ZFP82	1.1	0.0199643	0.0629252	10.550	0.361	10.163	10.878	9.691	0.414	9.290	10.116
16044	ENSG00000186660	ZFP91	-1.1	0.0006903	0.0043238	25.284	0.719	24.453	25.711	29.367	0.230	29.215	29.632
16048	ENSG00000189420	ZFP92	2	0.001909	0.0098105	0.696	0.040	0.653	0.732	0.358	0.093	0.256	0.437
16050	ENSG00000162300	ZFPL1	-1.2	0.0128232	0.0445012	16.064	1.179	14.877	17.236	18.957	0.897	17.921	19.482
16051	ENSG00000056097	ZFR	-1.2	2.395E-06	3.956E-05	65.773	1.089	64.692	66.870	78.487	2.929	75.180	80.755
16053	ENSG00000100711	ZFYVE21	1.1	0.0333772	0.09367	16.063	0.972	15.041	16.975	15.041	0.457	14.633	15.535
16054	ENSG00000072121	ZFYVE26	1.1	0.0077763	0.029966	8.370	0.406	8.006	8.808	7.652	0.634	6.960	8.205
16055	ENSG00000155256	ZFYVE27	1.1	0.0632201	0.1516869	14.463	1.114	13.178	15.157	13.373	0.743	12.515	13.821
16056	ENSG00000157077	ZFYVE9	1.2	2.666E-06	4.352E-05	33.350	2.084	31.872	35.733	27.767	1.095	26.870	28.988
16058	ENSG00000138658	ZGRF1	-1.3	1.664E-09	7.766E-08	21.261	1.351	19.963	22.658	28.493	0.337	28.115	28.765
16059	ENSG00000178764	ZHX2	-1.1	0.0048539	0.0206891	15.714	0.585	15.309	16.384	18.258	0.409	17.941	18.720
16060	ENSG00000043355	ZIC2	-1.3	1.739E-10	1.076E-08	116.621	7.938	107.678	122.834	159.895	11.168	147.042	167.219
16061	ENSG00000139800	ZIC5	-1.4	7.27E-11	4.859E-09	29.898	1.663	27.994	31.063	42.771	2.816	40.693	45.976
16062	ENSG00000171649	ZIK1	-1.1	0.0380929	0.1029775	18.655	0.769	18.071	19.526	20.848	1.477	19.143	21.714
16063	ENSG00000106261	ZKSCAN1	-1.3	1.199E-06	2.206E-05	25.348	1.441	24.068	26.909	32.693	2.173	30.707	35.014
16064	ENSG00000155592	ZKSCAN2	-1.1	0.0514436	0.1297444	7.199	0.080	7.114	7.272	8.093	0.414	7.634	8.437
16068	ENSG00000189298	ZKSCAN3	1.1	0.0633273	0.1518988	6.802	0.123	6.663	6.896	6.053	0.400	5.717	6.495
16069	ENSG00000196652	ZKSCAN5	-1.1	0.0762488	0.1746237	13.860	0.060	13.801	13.921	15.317	0.987	14.207	16.093
16070	ENSG00000196345	ZKSCAN7	-1.1	0.085068	0.189961	7.064	0.361	6.745	7.456	8.069	0.128	7.935	8.190
16071	ENSG00000198315	ZKSCAN8	-1.1	0.0952121	0.2061608	34.315	0.636	33.775	35.016	36.954	0.510	36.438	37.459
16072	ENSG00000166432	ZMAT1	1.1	0.0446438	0.11636	8.030	0.360	7.644	8.356	7.261	0.874	6.374	8.123
16074	ENSG00000146007	ZMAT2	1.2	0.000124	0.0010785	117.842	6.548	111.956	124.894	102.919	7.929	95.140	110.989
16075	ENSG00000122515	ZMIZ2	-1.2	0.0001315	0.0011303	13.617	0.125	13.479	13.723	16.492	1.073	15.828	17.730
16076	ENSG00000084073	ZMPSTE24	1.5	1.743E-10	1.076E-08	45.964	3.131	43.044	49.270	32.241	1.711	30.275	33.390
16081	ENSG00000197056	ZMYM1	-1.1	0.0021922	0.0108888	23.029	0.330	22.650	23.256	26.996	1.558	25.701	28.725
16083	ENSG00000121741	ZMYM2	-1.2	1.855E-06	3.186E-05	66.273	0.972	65.346	67.285	77.958	2.546	75.688	80.711
16085	ENSG00000147130	ZMYM3	-1.2	2.114E-06	3.558E-05	55.974	1.122	54.950	57.173	67.338	2.416	64.694	69.431
16087	ENSG00000015171	ZMYND11	1.3	1.115E-06	2.091E-05	30.386	0.922	29.853	31.451	24.548	2.413	21.837	26.460
16089	ENSG00000165724	ZMYND19	-1.3	3.794E-07	8.532E-06	30.884	1.812	29.018	32.637	42.538	3.446	38.563	44.677
16090	ENSG00000101040	ZMYND8	-1.1	0.0087257	0.0326571	72.193	3.506	68.159	74.502	79.890	1.904	77.697	81.122
16092	ENSG00000181896	ZNF101	-1.2	0.000128	0.0011069	10.992	0.340	10.664	11.343	13.700	1.439	12.074	14.805
16093	ENSG00000178150	ZNF114	1.1	0.1060485	0.2223378	15.104	2.812	12.843	18.252	13.732	1.720	11.934	15.362
16096	ENSG00000164631	ZNF12	-1.1	0.0782732	0.1784384	26.984	1.302	25.660	28.263	29.407	0.535	29.084	30.025
16097	ENSG00000197961	ZNF121	-1.3	0.0002514	0.0019184	72.237	3.449	68.314	74.797	96.227	11.566	83.143	105.090
16098	ENSG00000196418	ZNF124	1.2	0.0201671	0.0634906	5.006	0.137	4.922	5.164	4.205	0.491	3.695	4.674
16100	ENSG00000172262	ZNF131	1.1	0.0338895	0.094661	13.870	0.979	13.098	14.971	12.954	0.666	12.470	13.714
16101	ENSG00000125846	ZNF133	1.1	0.016542	0.054484	14.029	0.865	13.129	14.855	12.737	0.074	12.654	12.794
16102	ENSG00000213762	ZNF134	-1.1	0.1189246	0.2412296	38.043	0.653	37.609	38.793	40.876	1.362	39.334	41.915
16104	ENSG00000176293	ZNF135	1.2	0.0116495	0.0412537	5.437	0.593	4.915	6.082	4.666	0.238	4.394	4.839

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16105	ENSG00000123870	ZNF137P	1.2	0.0453252	0.1178456	7.505	0.830	6.645	8.301	6.209	1.335	4.822	7.485
16108	ENSG00000197008	ZNF138	-1.2	0.0001155	0.0010159	31.792	0.760	30.999	32.515	39.743	2.446	37.042	41.810
16109	ENSG00000131127	ZNF141	-1.2	3.856E-05	0.0004128	16.391	0.853	15.407	16.929	20.313	0.972	19.467	21.374
16113	ENSG00000167635	ZNF146	-1.1	0.0020613	0.0103912	139.089	1.656	137.378	140.684	155.211	5.059	151.953	161.039
16114	ENSG00000179909	ZNF154	-1.2	0.0022874	0.0112888	11.745	0.327	11.371	11.973	14.118	1.149	13.359	15.440
16115	ENSG00000204920	ZNF155	1.3	0.0088166	0.0329244	4.467	0.150	4.296	4.577	3.467	0.865	2.827	4.451
16117	ENSG00000147117	ZNF157	-1.4	0.0865079	0.1924264	1.405	0.414	1.028	1.848	1.972	0.133	1.822	2.077
16120	ENSG00000170949	ZNF160	-1.3	1.987E-07	4.934E-06	15.660	0.551	15.299	16.294	20.112	1.095	19.360	21.368
16121	ENSG00000197279	ZNF165	1.1	0.083926	0.1883296	15.439	1.448	14.425	17.098	13.946	2.260	11.719	16.237
16123	ENSG00000147394	ZNF185	1.2	0.0011214	0.0064579	20.256	0.643	19.514	20.651	17.674	0.469	17.237	18.170
16124	ENSG00000275111	ZNF2	-1.2	0.081066	0.1832001	1.916	0.117	1.847	2.051	2.439	0.289	2.138	2.715
16125	ENSG00000204789	ZNF204P	-1.1	0.1010996	0.2146765	39.647	4.359	35.995	44.472	43.903	1.008	42.890	44.907
16127	ENSG00000010244	ZNF207	-1.1	0.0009363	0.0055427	45.405	0.786	44.818	46.298	50.855	0.974	49.923	51.866
16129	ENSG00000263072	ZNF213-AS1	-1.2	0.1169589	0.2385009	3.925	0.317	3.561	4.132	4.614	0.983	3.600	5.563
16130	ENSG00000149054	ZNF215	1.3	7.063E-06	9.897E-05	9.850	0.127	9.736	9.988	7.727	0.503	7.211	8.216
16131	ENSG00000171940	ZNF217	-1.2	1.843E-07	4.66E-06	64.714	1.120	63.587	65.827	79.643	2.794	77.655	82.838
16132	ENSG00000165804	ZNF219	-1.2	0.000188	0.0015188	37.353	1.313	36.011	38.635	47.621	5.460	41.853	52.711
16133	ENSG00000165512	ZNF22	-1.1	0.0928763	0.2025032	81.268	0.780	80.596	82.123	87.702	0.632	87.055	88.317
16134	ENSG00000159905	ZNF221	2.2	8.191E-06	0.0001124	2.425	0.440	2.001	2.880	1.105	0.284	0.806	1.372
16135	ENSG00000256294	ZNF225	1.2	0.0151558	0.050839	3.095	0.432	2.740	3.576	2.581	0.028	2.554	2.610
16136	ENSG00000167380	ZNF226	-1.1	0.1052609	0.2211524	8.366	0.235	8.114	8.580	9.252	0.187	9.138	9.468
16137	ENSG00000131115	ZNF227	-1.1	0.0533339	0.133457	9.361	0.141	9.262	9.523	10.606	0.732	10.107	11.447
16138	ENSG00000278318	ZNF229	1.3	0.0036727	0.0165775	3.846	0.358	3.437	4.103	3.017	0.196	2.898	3.244
16139	ENSG00000167377	ZNF23	-1.3	0.0811969	0.1834223	0.785	0.210	0.572	0.993	1.043	0.185	0.837	1.193
16140	ENSG00000130856	ZNF236	-1.2	0.0011085	0.0063991	9.557	0.602	9.080	10.234	11.621	1.019	10.975	12.796
16141	ENSG00000196793	ZNF239	1.4	0.0021223	0.0106196	5.788	0.799	5.300	6.710	4.312	0.501	3.989	4.890
16142	ENSG00000172466	ZNF24	-1.1	0.0731659	0.1694911	54.129	0.975	53.016	54.834	58.310	2.728	55.879	61.261
16143	ENSG00000196922	ZNF252P	1.4	1.103E-05	0.000145	5.062	0.141	4.935	5.213	3.793	0.398	3.488	4.244
16144	ENSG00000083844	ZNF264	-1.1	0.0230387	0.0704283	4.271	0.185	4.100	4.468	4.884	0.068	4.808	4.941
16145	ENSG00000185947	ZNF267	1.2	7.948E-05	0.0007497	13.023	0.181	12.821	13.172	10.770	0.528	10.335	11.358
16146	ENSG00000090612	ZNF268	1.3	8.466E-06	0.0001156	7.849	0.468	7.494	8.380	6.381	0.199	6.263	6.611
16147	ENSG00000063587	ZNF275	1.3	4.99E-06	7.423E-05	11.591	0.665	10.965	12.289	9.404	0.380	9.043	9.800
16148	ENSG00000158805	ZNF276	-1.3	0.0025418	0.0123345	2.831	0.189	2.628	3.002	3.724	0.513	3.304	4.296
16149	ENSG00000198839	ZNF277	-1.2	0.0032033	0.0148512	16.397	0.210	16.158	16.554	19.610	1.476	18.508	21.287
16150	ENSG00000275004	ZNF280B	1.1	0.1146978	0.235052	5.798	0.103	5.705	5.909	5.373	0.048	5.336	5.427
16152	ENSG00000056277	ZNF280C	-1.1	0.022718	0.0696698	12.379	0.875	11.764	13.382	14.414	1.277	13.037	15.558
16153	ENSG00000187607	ZNF286A	-1.1	0.1109911	0.2299354	10.342	0.561	9.949	10.985	11.357	0.489	11.070	11.922
16155	ENSG00000166526	ZNF3	-1.1	0.0119081	0.0419587	20.972	0.907	20.265	21.994	23.745	1.062	23.039	24.967
16156	ENSG00000168661	ZNF30	-1.2	0.0848182	0.1896113	5.773	0.354	5.428	6.136	6.820	0.320	6.552	7.174
16157	ENSG00000145908	ZNF300	1.1	0.0606777	0.1469418	33.768	2.680	31.006	36.357	31.684	1.146	30.986	33.007
16158	ENSG00000089335	ZNF302	1.1	0.0903968	0.1989693	24.659	0.807	24.045	25.573	23.485	1.298	22.114	24.694
16159	ENSG00000205903	ZNF316	1.2	0.0046671	0.0200647	8.678	1.256	7.317	9.794	7.225	1.065	6.387	8.424

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16160	ENSG00000130803	ZNF317	-1.1	0.0753102	0.1729426	19.196	1.200	17.811	19.914	21.143	0.618	20.574	21.800
16161	ENSG00000171467	ZNF318	-1.1	0.092868	0.2025032	15.290	0.504	14.781	15.788	16.620	0.691	15.824	17.065
16162	ENSG00000182986	ZNF320	1.1	0.043171	0.1133599	11.074	0.758	10.208	11.617	10.344	0.361	10.117	10.761
16163	ENSG00000213801	ZNF321P	1.3	0.0214626	0.0666418	4.054	0.243	3.818	4.304	3.122	0.538	2.509	3.516
16164	ENSG00000181315	ZNF322	-1.1	0.0283546	0.0826404	29.144	1.528	27.594	30.649	32.531	1.904	30.544	34.341
16165	ENSG00000083812	ZNF324	1.3	0.0198437	0.0626224	1.749	0.204	1.560	1.965	1.339	0.253	1.051	1.522
16166	ENSG00000162664	ZNF326	1.1	0.1222966	0.2464437	17.190	1.762	15.364	18.881	15.989	1.204	14.979	17.321
16167	ENSG00000130844	ZNF331	-1.4	1.939E-09	8.912E-08	14.267	0.191	14.061	14.440	20.000	0.723	19.232	20.667
16168	ENSG00000160961	ZNF333	-1.3	0.0004028	0.0028115	3.346	0.268	3.143	3.649	4.394	0.613	3.852	5.059
16169	ENSG00000198026	ZNF335	-1.3	0.0002775	0.0020802	3.591	0.551	3.043	4.145	4.830	0.410	4.357	5.081
16170	ENSG00000130684	ZNF337	1.1	0.0620698	0.1494146	12.489	0.130	12.397	12.637	11.516	0.644	10.800	12.048
16171	ENSG00000196693	ZNF33B	1.1	0.027414	0.0804394	18.003	0.356	17.616	18.316	16.784	0.885	15.768	17.386
16172	ENSG00000131061	ZNF341	-1.3	0.0161067	0.0534353	2.497	0.224	2.247	2.679	3.240	0.494	2.817	3.783
16173	ENSG00000088876	ZNF343	-1.3	0.0105056	0.0379417	2.223	0.121	2.100	2.342	2.981	0.242	2.768	3.244
16174	ENSG00000113761	ZNF346	-1.1	0.0215539	0.0668884	9.310	0.534	8.759	9.824	10.898	0.362	10.480	11.112
16175	ENSG00000197937	ZNF347	1.1	0.028851	0.0837495	5.973	0.268	5.743	6.267	5.391	0.111	5.266	5.477
16176	ENSG00000178338	ZNF354B	1.2	0.0186835	0.0597231	12.846	0.935	11.839	13.687	11.387	0.416	10.906	11.638
16177	ENSG00000177932	ZNF354C	1.1	0.0744984	0.1716031	10.630	0.070	10.587	10.711	9.866	0.456	9.394	10.304
16178	ENSG00000198816	ZNF358	-1.2	0.0673327	0.1591798	18.285	1.666	16.984	20.162	21.955	4.458	18.840	27.062
16179	ENSG00000138311	ZNF365	1.7	0.0075771	0.0293187	0.424	0.090	0.342	0.521	0.253	0.037	0.224	0.294
16180	ENSG00000165244	ZNF367	1.2	0.0212346	0.0661158	9.912	0.124	9.807	10.049	8.691	1.000	7.550	9.413
16181	ENSG00000234420	ZNF37BP	1.4	1.202E-06	2.209E-05	4.904	0.509	4.532	5.485	3.541	0.073	3.462	3.604
16182	ENSG00000161642	ZNF385A	-1.3	0.0003548	0.0025308	12.128	0.977	11.435	13.245	15.675	1.444	14.020	16.678
16183	ENSG00000186918	ZNF395	-1.1	0.0456444	0.1184932	10.295	0.708	9.870	11.112	11.666	1.224	10.382	12.820
16184	ENSG00000186812	ZNF397	-1.1	0.0014758	0.0079845	39.785	1.050	38.700	40.796	45.263	1.088	44.154	46.330
16185	ENSG00000197024	ZNF398	1.4	3.18E-12	3.057E-10	40.022	0.650	39.484	40.744	29.630	0.221	29.449	29.877
16186	ENSG00000133250	ZNF414	-1.3	0.0016676	0.0088416	7.628	0.463	7.178	8.103	10.080	1.659	8.165	11.073
16187	ENSG00000173480	ZNF417	-1.2	0.0025462	0.0123426	11.709	0.075	11.642	11.790	14.197	0.767	13.317	14.728
16188	ENSG00000197050	ZNF420	-1.1	0.0702885	0.1643792	6.971	0.161	6.831	7.147	8.058	0.855	7.103	8.753
16189	ENSG00000204947	ZNF425	1.3	0.000689	0.0043195	8.678	0.386	8.255	9.011	6.733	0.662	6.320	7.498
16190	ENSG00000130818	ZNF426	-1.1	0.0244412	0.0736663	10.941	0.239	10.683	11.154	12.421	0.259	12.188	12.700
16191	ENSG00000198521	ZNF43	-1.1	0.0048157	0.0205742	22.080	1.766	20.697	24.070	25.752	1.000	24.673	26.649
16192	ENSG00000118620	ZNF430	1.2	0.0106146	0.0382457	5.853	0.092	5.752	5.932	5.060	0.703	4.447	5.827
16193	ENSG00000197647	ZNF433	1.2	0.1134389	0.233256	2.742	0.224	2.494	2.927	2.305	0.424	1.930	2.764
16194	ENSG00000125945	ZNF436	-1.4	0.0126535	0.0440074	1.114	0.208	0.908	1.323	1.647	0.417	1.202	2.030
16195	ENSG00000249087	ZNF436-AS1	-1.3	0.0595203	0.1447608	2.046	0.169	1.891	2.226	2.763	0.588	2.121	3.276
16196	ENSG00000167685	ZNF444	-1.3	4.593E-06	6.893E-05	10.047	0.253	9.755	10.198	13.230	1.605	12.228	15.080
16197	ENSG00000112200	ZNF451	-1.1	0.0002564	0.0019505	13.204	0.891	12.330	14.110	15.489	0.442	15.013	15.888
16199	ENSG00000148143	ZNF462	-1.1	0.0139164	0.0475491	13.851	0.666	13.128	14.438	15.529	0.882	14.512	16.075
16200	ENSG00000225614	ZNF469	1.2	0.1108858	0.2298299	1.193	0.156	1.045	1.357	1.033	0.157	0.853	1.142
16201	ENSG00000197016	ZNF470	1.4	1.456E-05	0.0001821	4.533	0.241	4.333	4.800	3.410	0.297	3.172	3.743
16202	ENSG00000196263	ZNF471	1.2	0.0943523	0.2050342	2.394	0.231	2.153	2.612	2.078	0.295	1.747	2.312

	A	B	C	D	E	F	G	H	I	J	K	L	M
16203	ENSG00000180035	ZNF48	1.1	0.1221168	0.2461988	17.368	0.848	16.444	18.112	16.330	2.058	14.308	18.422
16204	ENSG00000198298	ZNF485	1.3	0.0134032	0.0461686	6.262	0.186	6.098	6.464	4.994	0.593	4.386	5.572
16205	ENSG00000243660	ZNF487	-1.4	0.0586146	0.1430724	0.605	0.048	0.564	0.659	0.863	0.118	0.786	0.999
16206	ENSG00000229676	ZNF492	1.3	0.1225688	0.2467865	1.002	0.126	0.870	1.120	0.799	0.209	0.585	1.003
16207	ENSG00000162714	ZNF496	-1.1	0.0017261	0.009079	22.380	0.822	21.575	23.218	25.611	1.349	24.288	26.985
16208	ENSG00000103199	ZNF500	-1.2	0.0031875	0.0147931	3.796	0.379	3.359	4.033	4.827	0.291	4.492	5.008
16209	ENSG00000243943	ZNF512	1.2	0.000181	0.0014744	30.359	1.206	29.024	31.369	25.999	2.012	24.286	28.214
16210	ENSG00000144026	ZNF514	-1.1	0.1200837	0.2430269	11.935	0.343	11.721	12.331	13.051	0.176	12.848	13.154
16211	ENSG00000101493	ZNF516	1.4	3.807E-07	8.55E-06	11.599	1.253	10.152	12.329	8.675	0.443	8.165	8.965
16212	ENSG00000177853	ZNF518A	1.1	0.1191937	0.2416313	22.944	0.267	22.668	23.201	22.310	0.366	21.888	22.546
16213	ENSG00000178163	ZNF518B	-1.1	0.0509064	0.1287594	7.434	0.105	7.364	7.555	8.386	0.454	7.904	8.806
16214	ENSG00000203326	ZNF525	1.2	5.007E-05	0.0005138	19.420	0.260	19.227	19.716	16.559	0.404	16.226	17.009
16215	ENSG00000167625	ZNF526	-1.2	0.0032328	0.0149634	8.601	0.386	8.193	8.959	10.507	0.590	10.036	11.169
16216	ENSG00000183647	ZNF530	-1.2	0.0337363	0.0943498	4.645	0.313	4.324	4.950	5.607	0.488	5.044	5.902
16217	ENSG00000074657	ZNF532	-1	0.0879285	0.1946002	60.334	3.637	56.150	62.747	64.664	1.364	63.854	66.239
16218	ENSG00000240225	ZNF542P	1.1	0.06735	0.1591798	20.944	1.477	20.066	22.650	19.644	0.419	19.172	19.975
16219	ENSG00000178229	ZNF543	1.2	0.0929185	0.2025169	3.657	0.166	3.472	3.793	3.134	0.555	2.547	3.649
16220	ENSG00000187187	ZNF546	1.4	0.0574419	0.1410445	0.455	0.033	0.430	0.492	0.327	0.101	0.224	0.426
16221	ENSG00000121406	ZNF549	1.1	0.1151824	0.2357541	5.083	0.451	4.622	5.523	4.715	0.384	4.388	5.138
16222	ENSG00000204519	ZNF551	-1.1	0.0367655	0.1004549	21.536	0.161	21.356	21.665	24.062	0.515	23.638	24.636
16223	ENSG00000186300	ZNF555	-1.2	0.0085223	0.0320449	2.992	0.111	2.864	3.061	3.696	0.280	3.449	4.000
16224	ENSG00000167785	ZNF558	-1.1	0.0284491	0.0828443	4.051	0.268	3.770	4.305	4.746	0.129	4.649	4.892
16225	ENSG00000267106	ZNF561-AS1	1.2	0.0108617	0.03897	4.610	0.214	4.373	4.788	3.832	0.118	3.700	3.928
16226	ENSG00000171466	ZNF562	1.1	0.0586332	0.1430972	12.191	0.555	11.570	12.637	11.611	0.270	11.335	11.875
16227	ENSG00000186017	ZNF566	1.1	0.1022453	0.2165111	6.056	0.211	5.885	6.292	5.573	0.349	5.202	5.895
16228	ENSG00000189042	ZNF567	-1.2	0.0013349	0.0073828	10.180	0.926	9.195	11.033	12.501	0.531	12.117	13.106
16229	ENSG00000198453	ZNF568	1.1	0.0712679	0.1660495	2.616	0.076	2.550	2.700	2.328	0.270	2.121	2.633
16230	ENSG00000171970	ZNF57	1.2	0.0219528	0.067815	7.627	0.155	7.480	7.788	6.384	0.556	5.940	7.007
16231	ENSG00000267470	ZNF571-AS1	-1.6	0.0039595	0.0176376	0.692	0.150	0.523	0.809	1.167	0.209	0.926	1.294
16232	ENSG00000180938	ZNF572	1.3	0.0104856	0.0378938	8.371	1.299	7.619	9.872	6.717	1.001	6.113	7.872
16233	ENSG00000124444	ZNF576	-1.2	0.0324764	0.0917902	3.375	0.386	3.124	3.820	4.213	0.178	4.015	4.358
16234	ENSG00000161551	ZNF577	1.1	0.0319228	0.0906345	9.778	0.507	9.344	10.336	8.936	0.302	8.747	9.285
16235	ENSG00000213015	ZNF580	-1.2	0.0330507	0.092975	8.253	0.505	7.953	8.836	10.028	1.541	8.480	11.561
16236	ENSG00000171425	ZNF581	-1.4	1.603E-06	2.807E-05	36.262	1.501	34.785	37.786	50.936	5.096	46.048	56.217
16237	ENSG00000018869	ZNF582	1.3	0.0148672	0.0500895	4.421	0.113	4.314	4.540	3.517	0.527	3.035	4.080
16238	ENSG00000267454	ZNF582-AS1	1.3	0.0186815	0.0597231	5.187	0.400	4.784	5.585	4.054	0.496	3.609	4.588
16239	ENSG00000083828	ZNF586	-1.3	0.0005043	0.0033833	6.890	0.281	6.610	7.173	9.292	0.672	8.609	9.953
16240	ENSG00000198466	ZNF587	-1.2	0.0001799	0.001468	18.898	0.536	18.310	19.358	22.651	1.810	20.569	23.850
16241	ENSG00000269343	ZNF587B	-1.2	0.0001036	0.0009289	17.212	0.775	16.320	17.720	21.317	1.112	20.042	22.085
16243	ENSG00000164048	ZNF589	-1.1	0.0002108	0.0016617	66.383	3.790	62.149	69.460	77.311	1.560	75.579	78.607

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16244	ENSG00000166716	ZNF592	-1.1	0.0023903	0.0117171	15.357	0.863	14.630	16.311	17.802	0.690	17.019	18.324
16245	ENSG00000180626	ZNF594	1.2	0.0042223	0.0185339	10.898	0.527	10.537	11.503	9.486	0.802	8.574	10.082
16246	ENSG00000272602	ZNF595	-1.1	0.0231163	0.0705586	12.590	0.644	12.065	13.308	14.619	0.665	14.097	15.368
16248	ENSG00000167962	ZNF598	-1.1	0.0973802	0.2092774	14.756	0.845	14.166	15.725	16.408	0.865	15.411	16.951
16250	ENSG00000168916	ZNF608	-1.1	0.0033145	0.0152581	22.532	0.256	22.341	22.823	25.592	1.227	24.206	26.541
16251	ENSG00000180357	ZNF609	-1.2	4.298E-06	6.52E-05	23.687	1.701	21.722	24.688	28.827	0.888	27.833	29.542
16252	ENSG00000167554	ZNF610	1.2	0.0274708	0.0805361	6.879	0.881	5.954	7.708	5.862	0.455	5.518	6.377
16253	ENSG00000213020	ZNF611	1.2	0.0321736	0.0911629	3.594	0.139	3.446	3.720	3.124	0.233	2.855	3.265
16254	ENSG00000197619	ZNF615	1.2	0.0160252	0.0532485	9.688	0.341	9.330	10.007	8.595	0.759	7.919	9.417
16255	ENSG00000173545	ZNF622	-1.1	0.0232308	0.0708826	33.916	0.983	32.935	34.901	38.884	2.980	35.648	41.516
16256	ENSG00000197566	ZNF624	-1.3	0.0415996	0.1101572	1.668	0.015	1.653	1.683	2.144	0.226	1.902	2.349
16257	ENSG00000102870	ZNF629	-1.1	0.008059	0.0307808	15.576	0.896	14.553	16.228	17.873	0.307	17.519	18.063
16258	ENSG00000121864	ZNF639	-1.1	0.1119312	0.2312327	11.272	0.585	10.926	11.947	12.439	0.635	11.977	13.163
16259	ENSG00000167395	ZNF646	-1.1	0.0048476	0.0206726	8.996	0.596	8.327	9.472	10.493	0.328	10.253	10.867
16260	ENSG00000198093	ZNF649	1.1	0.109285	0.2273757	86.131	5.656	79.866	90.861	83.552	3.585	79.500	86.311
16261	ENSG00000198740	ZNF652	-1.1	0.0080393	0.0307136	13.802	0.712	13.360	14.623	15.769	0.770	15.230	16.651
16262	ENSG00000161914	ZNF653	-1.4	0.0361513	0.0992231	1.003	0.187	0.895	1.219	1.460	0.371	1.184	1.882
16263	ENSG00000197343	ZNF655	-1.1	0.0265094	0.0783286	19.892	0.750	19.082	20.562	22.172	0.736	21.534	22.978
16264	ENSG00000179195	ZNF664	1.2	4.284E-07	9.484E-06	64.863	2.363	63.057	67.537	55.606	1.210	54.740	56.989
16265	ENSG00000198046	ZNF667	-1.1	0.1105508	0.2292713	10.820	0.540	10.214	11.252	11.830	0.677	11.053	12.294
16266	ENSG00000188295	ZNF669	-1.2	0.0051573	0.0216279	13.077	0.880	12.566	14.093	16.238	0.587	15.561	16.604
16267	ENSG00000277462	ZNF670	-1.1	0.0500639	0.1270604	20.064	2.354	18.215	22.714	23.032	0.629	22.430	23.686
16269	ENSG00000171161	ZNF672	1.1	0.0218193	0.0675038	21.803	0.278	21.484	21.983	19.969	1.480	18.390	21.324
16270	ENSG00000251192	ZNF674	1.2	0.0320498	0.090934	3.216	0.214	3.025	3.447	2.774	0.190	2.559	2.917
16271	ENSG00000196109	ZNF676	-1.3	1.395E-06	2.511E-05	34.046	0.313	33.856	34.407	44.185	1.610	42.651	45.862
16272	ENSG00000181450	ZNF678	-1.1	0.049624	0.1263097	20.410	0.914	19.356	20.990	22.543	0.483	22.059	23.025
16273	ENSG00000197124	ZNF682	1.2	0.0080315	0.0306975	12.235	1.231	10.856	13.225	10.533	0.651	10.145	11.285
16274	ENSG00000143373	ZNF687	-1.1	0.1185709	0.240801	22.697	1.442	21.534	24.311	24.727	2.535	21.843	26.604
16275	ENSG00000198429	ZNF69	1.3	0.0058829	0.0240334	8.597	1.167	7.599	9.880	6.885	1.122	5.603	7.687
16276	ENSG00000171163	ZNF692	-1.4	1.399E-06	2.515E-05	13.183	1.212	11.807	14.092	18.634	2.168	16.878	21.058
16277	ENSG00000197472	ZNF695	-1.1	0.1088043	0.2266823	6.494	0.946	5.543	7.434	7.510	0.081	7.420	7.578
16278	ENSG00000143067	ZNF697	1.6	2.44E-11	1.861E-09	19.593	2.466	16.753	21.189	12.359	0.592	11.676	12.713
16279	ENSG00000147789	ZNF7	-1.2	0.0001799	0.001468	5.448	0.101	5.334	5.528	6.780	0.302	6.441	7.018
16280	ENSG00000120963	ZNF706	1.2	0.0001339	0.0011475	19.638	0.862	18.723	20.433	17.014	1.130	15.782	18.002
16281	ENSG00000182141	ZNF708	1.2	0.0068401	0.0269666	19.640	1.713	17.983	21.404	17.373	0.904	16.381	18.151
16282	ENSG00000197951	ZNF71	1.1	0.0377336	0.1022956	7.120	0.471	6.592	7.495	6.407	0.774	5.653	7.199
16283	ENSG00000160352	ZNF714	-1.1	0.0915126	0.200759	26.124	0.849	25.156	26.743	28.319	0.961	27.378	29.300
16284	ENSG00000197302	ZNF720	-1.1	0.1013641	0.2151571	10.258	0.090	10.169	10.348	11.341	1.107	10.355	12.539
16285	ENSG00000213967	ZNF726	1.1	0.1023208	0.2166376	6.159	0.211	5.932	6.349	5.690	0.576	5.247	6.342
16286	ENSG00000234444	ZNF736	1.3	5.759E-05	0.0005756	3.363	0.082	3.268	3.413	2.562	0.110	2.443	2.661
16287	ENSG00000172687	ZNF738	1.3	2.397E-08	7.95E-07	74.109	3.168	71.421	77.602	60.311	2.036	58.154	62.199
16288	ENSG00000185252	ZNF74	-1.1	0.0649009	0.1546012	21.466	0.734	20.902	22.297	23.496	1.108	22.757	24.770
16289	ENSG00000139651	ZNF740	-1.1	0.041588	0.1101438	13.812	0.788	12.951	14.499	15.328	0.647	14.584	15.756

	A	B	C	D	E	F	G	H	I	J	K	L	M
16290	ENSG00000181220	ZNF746	-1.1	0.0886864	0.195985	5.165	0.661	4.480	5.799	5.897	0.314	5.612	6.233
16291	ENSG00000169951	ZNF764	-1.2	0.121724	0.2455238	3.396	0.495	2.942	3.924	4.066	0.552	3.538	4.640
16293	ENSG00000175691	ZNF77	-1.3	0.0295703	0.0853015	4.759	0.650	4.096	5.396	6.101	0.778	5.519	6.985
16295	ENSG00000198146	ZNF770	-1.2	8.461E-08	2.354E-06	91.770	5.350	86.874	97.480	114.207	0.905	113.453	115.211
16296	ENSG00000197782	ZNF780A	1.2	0.0002578	0.0019577	6.577	0.328	6.236	6.890	5.407	0.281	5.114	5.673
16298	ENSG00000128000	ZNF780B	1.2	0.0136741	0.0468727	5.265	0.674	4.542	5.877	4.599	0.216	4.385	4.816
16299	ENSG00000204946	ZNF783	1.3	0.0001899	0.0015309	5.800	0.714	4.983	6.304	4.467	0.473	4.179	5.012
16300	ENSG00000197162	ZNF785	-1.1	0.0219208	0.0677783	9.084	0.396	8.646	9.417	10.602	0.571	10.098	11.222
16302	ENSG00000197362	ZNF786	1.2	0.0057872	0.0237223	14.173	1.780	12.638	16.124	12.059	0.340	11.822	12.449
16303	ENSG00000142409	ZNF787	-1.2	0.0047382	0.0202982	19.057	0.313	18.709	19.318	22.724	3.075	20.560	26.244
16304	ENSG00000214189	ZNF788	1.1	0.0218686	0.067629	14.546	0.828	13.644	15.273	13.491	0.296	13.276	13.829
16305	ENSG00000196152	ZNF79	-1.4	0.000574	0.0037452	4.697	0.148	4.530	4.813	6.775	0.344	6.380	6.998
16306	ENSG00000180884	ZNF792	-1.2	0.0415041	0.1099903	2.437	0.042	2.393	2.477	3.065	0.425	2.680	3.521
16307	ENSG00000188227	ZNF793	-1.2	0.0011393	0.0065271	3.236	0.098	3.139	3.335	4.062	0.178	3.958	4.267
16308	ENSG00000266916	ZNF793-AS1	-1.3	0.0852349	0.1902068	3.924	0.207	3.722	4.135	5.074	0.416	4.617	5.432
16309	ENSG00000278129	ZNF8	-1.2	0.0006224	0.0039979	5.920	0.542	5.295	6.248	7.381	0.251	7.112	7.607
16310	ENSG00000204524	ZNF805	-1.2	0.058853	0.1435093	3.426	0.339	3.104	3.779	4.289	0.221	4.035	4.432
16311	ENSG00000198346	ZNF813	1.1	0.1135577	0.2333659	12.574	1.180	11.637	13.899	11.873	0.438	11.606	12.379
16312	ENSG00000204514	ZNF814	-1.4	1.305E-08	4.687E-07	4.433	0.303	4.253	4.782	6.410	0.078	6.321	6.458
16313	ENSG00000185869	ZNF829	1.1	0.0935503	0.2035528	4.024	0.133	3.931	4.176	3.686	0.139	3.530	3.798
16314	ENSG00000167766	ZNF83	1.1	0.0238552	0.072353	12.815	0.098	12.715	12.911	11.805	0.419	11.414	12.248
16315	ENSG00000198783	ZNF830	-1.1	0.0703161	0.1644012	18.600	1.535	16.829	19.502	21.163	1.279	19.915	22.472
16316	ENSG00000127903	ZNF835	1.5	0.0152715	0.0511661	1.322	0.296	1.105	1.659	0.883	0.142	0.721	0.984
16317	ENSG00000198040	ZNF84	1.2	2.085E-05	0.0002463	18.303	0.682	17.541	18.855	15.242	0.392	14.884	15.660
16318	ENSG00000197608	ZNF841	1.2	0.0043582	0.0190123	14.278	1.043	13.104	15.100	12.456	0.429	12.039	12.896
16319	ENSG00000223547	ZNF844	1.2	0.0120432	0.0423818	7.808	0.216	7.590	8.023	6.931	0.115	6.865	7.064
16320	ENSG00000213799	ZNF845	1.1	0.1121755	0.2316231	16.367	0.633	15.755	17.019	15.389	0.861	14.434	16.105
16321	ENSG00000196605	ZNF846	1.2	0.0591522	0.1440858	5.595	0.639	4.875	6.095	4.908	0.304	4.598	5.205
16322	ENSG00000198153	ZNF849P	-1.6	0.0566798	0.1395379	0.922	0.039	0.896	0.967	1.478	0.034	1.439	1.498
16323	ENSG00000178917	ZNF852	-1.2	0.0124182	0.0433497	5.381	0.630	4.683	5.907	6.804	1.084	5.881	7.999
16325	ENSG00000236609	ZNF853	-1.1	0.0688704	0.161801	7.065	0.332	6.683	7.278	8.234	1.081	7.006	9.043
16326	ENSG00000261221	ZNF865	-1.2	0.0132299	0.0456835	5.338	0.401	5.017	5.788	6.686	1.017	5.700	7.732
16327	ENSG00000221923	ZNF880	1.1	0.0543492	0.1353916	16.854	1.165	15.834	18.123	15.474	0.952	14.729	16.547
16328	ENSG00000213793	ZNF888	1.2	0.0081841	0.031147	9.929	0.135	9.779	10.041	8.716	0.347	8.358	9.051
16329	ENSG00000146757	ZNF92	-1.1	0.0692819	0.1625419	31.533	1.610	29.952	33.170	36.943	2.583	34.246	39.393
16330	ENSG00000184635	ZNF93	1.1	0.0007099	0.0044142	31.643	0.632	31.066	32.319	28.277	1.968	26.777	30.506
16331	ENSG00000174276	ZNHIT2	-1.2	0.0897706	0.1977712	7.407	0.819	6.616	8.253	9.105	0.266	8.817	9.341
16332	ENSG00000273611	ZNHIT3	-1.1	0.0120722	0.0424573	20.678	1.187	19.739	22.012	23.483	1.761	21.611	25.105
16333	ENSG00000117174	ZNHIT6	1.2	0.0005007	0.0033602	16.716	0.295	16.402	16.987	14.611	0.671	13.906	15.243
16334	ENSG00000183579	ZNRF3	1.2	0.004018	0.0178316	12.109	0.658	11.590	12.849	10.680	0.900	10.096	11.716
16335	ENSG00000188372	ZP3	-1.1	0.1079201	0.2254234	7.821	0.464	7.323	8.241	9.089	1.120	7.805	9.866
16336	ENSG00000109917	ZPR1	1.1	0.0861633	0.1918907	20.736	0.618	20.296	21.443	19.932	0.382	19.647	20.365

	A	B	C	D	E	F	G	H	I	J	K	L	M
16337	ENSG00000019995	ZRANB1	-1.1	0.0135876	0.046633	22.525	0.957	21.491	23.380	25.464	1.552	23.840	26.932
16338	ENSG000000130182	ZSCAN10	-1.1	0.0032073	0.0148617	128.679	5.991	122.234	134.077	144.201	6.234	139.952	151.357
16339	ENSG00000269293	ZSCAN16-AS1	-1.3	0.0128395	0.0445353	3.424	0.139	3.276	3.552	4.640	0.117	4.552	4.772
16340	ENSG00000176371	ZSCAN2	1.2	7.996E-05	0.0007525	18.091	1.185	17.313	19.455	15.138	0.940	14.581	16.223
16341	ENSG00000121903	ZSCAN20	-1.3	0.0171876	0.0560284	2.048	0.370	1.780	2.470	2.805	0.252	2.516	2.976
16342	ENSG00000166529	ZSCAN21	-1.2	0.0102137	0.0370933	17.087	0.800	16.293	17.892	20.334	1.103	19.594	21.602
16343	ENSG00000186814	ZSCAN30	1.2	0.0004288	0.0029532	14.639	0.656	13.951	15.257	12.626	0.380	12.234	12.993
16344	ENSG00000131848	ZSCAN5A	1.2	0.1022387	0.2165111	0.912	0.046	0.882	0.965	0.750	0.147	0.612	0.905
16345	ENSG00000137185	ZSCAN9	-1.2	0.0065887	0.0262322	11.816	1.183	10.455	12.593	14.176	1.030	13.560	15.366
16346	ENSG00000168612	ZSWIM1	-1.2	0.0132978	0.0458711	8.539	0.552	7.963	9.065	10.458	1.220	9.251	11.692
16348	ENSG00000132003	ZSWIM4	1.1	0.0172928	0.0562773	17.773	2.165	15.382	19.599	16.079	0.243	15.929	16.359
16349	ENSG00000214941	ZSWIM7	1.2	0.0021692	0.0107966	22.727	2.675	20.367	25.634	19.444	0.275	19.173	19.723
16350	ENSG00000153975	ZUFSP	-1.1	0.0114052	0.0404817	22.347	1.578	20.526	23.292	26.245	1.056	25.321	27.396
16351	ENSG00000086827	ZW10	-1.1	0.0375743	0.1019781	33.232	1.348	32.442	34.789	36.945	1.526	35.555	38.577
16352	ENSG00000174442	ZWILCH	1.1	0.000986	0.0058001	54.877	3.294	52.801	58.674	49.967	2.278	47.336	51.284
16353	ENSG00000122952	ZWINT	1.1	0.0243181	0.0734188	77.014	2.346	74.491	79.129	72.889	1.037	71.934	73.993
16354	ENSG00000198205	ZXDA	-1.5	0.0004599	0.0031277	2.389	0.126	2.245	2.481	3.557	0.131	3.474	3.707
16355	ENSG00000198455	ZXDB	-1.1	0.072994	0.1692088	8.846	0.273	8.535	9.043	9.935	0.330	9.619	10.278
16357	ENSG00000070476	ZXDC	-1.1	0.055464	0.1374942	8.737	0.403	8.449	9.197	9.825	0.994	9.182	10.969
16358	ENSG00000159840	ZYX	1.2	0.000659	0.0041807	105.907	7.481	97.271	110.402	86.948	9.667	80.903	98.097
16360	ENSG00000074755	ZZEF1	-1.2	0.0001171	0.0010282	5.443	0.304	5.170	5.771	6.662	0.274	6.377	6.925
16361	ENSG00000224063		6.3	0.1080558	0.2256231	0.067	0.058	0.000	0.101	0.000	0.000	0.000	0.000
16362	ENSG00000279191		2.2	0.070368	0.1644593	0.226	0.076	0.154	0.306	0.102	0.012	0.092	0.116
16363	ENSG00000241255		-1.9	0.0021179	0.0106062	4.791	0.649	4.043	5.189	9.475	1.541	7.781	10.794
16364	ENSG00000203635		-1.8	0.0002259	0.0017593	2.288	0.588	1.620	2.724	4.242	0.159	4.069	4.384
16365	ENSG00000247137		-1.8	0.0013876	0.0076022	1.189	0.514	0.848	1.780	2.133	0.135	2.043	2.288
16368	ENSG00000254339		-1.8	1.36E-13	1.81E-11	98.587	11.265	87.657	110.159	178.787	9.009	168.584	185.648
16370	ENSG00000254815		-1.8	4.388E-05	0.0004598	2.388	0.365	2.157	2.809	4.441	0.826	3.589	5.239
16371	ENSG00000255389		-1.8	2.81E-06	4.522E-05	3.487	0.487	2.990	3.964	6.502	1.135	5.645	7.789
16372	ENSG00000256008		-1.8	0.0019611	0.0100172	2.118	0.793	1.319	2.905	3.993	0.460	3.470	4.333
16373	ENSG00000257681		-1.8	0.0028601	0.0135383	2.230	0.371	1.807	2.500	4.056	0.376	3.652	4.396
16374	ENSG00000177359		-1.7	4.388E-07	9.65E-06	2.908	0.331	2.716	3.290	4.973	0.457	4.603	5.483
16376	ENSG00000204758		-1.7	0.0082011	0.0311979	0.728	0.131	0.590	0.850	1.288	0.288	1.117	1.621
16377	ENSG00000229271		-1.7	0.0001589	0.0013211	14.661	1.907	12.573	16.312	25.850	1.053	24.735	26.828
16378	ENSG00000232186		-1.7	4.556E-07	9.982E-06	10.266	0.614	9.659	10.887	17.330	0.520	16.730	17.653
16379	ENSG00000240731		-1.7	0.000279	0.0020885	11.380	1.772	10.035	13.387	19.963	0.317	19.714	20.320
16380	ENSG00000246982		-1.7	0.004526	0.0195827	2.093	0.064	2.020	2.139	3.690	0.916	2.866	4.677
16381	ENSG00000263786		-1.7	0.0075655	0.0292937	2.479	0.013	2.471	2.493	4.446	0.560	3.899	5.017
16382	ENSG00000272079		-1.7	0.0061948	0.0249874	2.022	0.368	1.761	2.443	3.429	0.132	3.288	3.549
16383	ENSG00000272693		-1.7	0.0019143	0.0098293	1.607	0.154	1.430	1.709	2.793	0.194	2.591	2.977
16384	ENSG00000272973		-1.7	0.0018146	0.0094201	6.123	0.927	5.058	6.748	10.445	1.813	9.185	12.523
16385	ENSG00000273619		-1.7	0.0044166	0.0192077	4.728	0.905	4.015	5.747	8.309	1.578	6.496	9.365

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16386	ENSG00000274956		-1.7	0.0048974	0.0208159	0.358	0.055	0.317	0.420	0.634	0.049	0.578	0.664
16387	ENSG00000280287		-1.7	0.0020034	0.0101842	1.313	0.593	0.840	1.978	2.283	0.489	1.859	2.817
16388	ENSG00000272405		1.8	0.1051475	0.2210791	0.429	0.184	0.321	0.642	0.246	0.125	0.146	0.386
16389	ENSG00000225616		-1.6	0.0094721	0.0348569	8.204	0.242	8.029	8.481	13.610	1.793	12.101	15.593
16391	ENSG00000253636		-1.6	0.0007749	0.0047395	2.100	0.379	1.679	2.414	3.406	0.287	3.104	3.676
16392	ENSG00000258649		-1.6	1.06E-11	8.933E-10	93.383	5.707	87.812	99.217	152.986	8.069	147.400	162.237
16393	ENSG00000260412		-1.6	0.0086276	0.0323472	0.502	0.138	0.368	0.644	0.834	0.162	0.677	1.000
16394	ENSG00000266709		-1.6	1.566E-05	0.0001929	7.233	0.943	6.256	8.138	11.600	0.466	11.213	12.118
16395	ENSG00000267506		-1.6	0.0020042	0.0101852	0.768	0.077	0.698	0.851	1.261	0.163	1.084	1.407
16396	ENSG00000196696		-1.5	0.0004129	0.0028644	1.957	0.256	1.780	2.250	2.914	0.265	2.650	3.181
16398	ENSG00000229852		-1.5	0.0017682	0.0092327	1.038	0.167	0.865	1.198	1.555	0.029	1.529	1.586
16399	ENSG00000237923		-1.5	5.767E-06	8.393E-05	24.908	2.175	22.559	26.851	37.158	2.544	34.597	39.685
16400	ENSG00000245552		-1.5	0.0049919	0.0211229	0.807	0.118	0.672	0.888	1.269	0.065	1.197	1.323
16401	ENSG00000260362		-1.5	0.0038107	0.0170684	6.625	0.609	5.950	7.134	10.271	1.051	9.453	11.457
16403	ENSG00000260668		-1.5	0.0002602	0.0019735	13.010	0.850	12.505	13.992	20.240	1.167	19.129	21.455
16405	ENSG00000260834		-1.5	5.50E-15	1.08E-12	126.784	4.256	123.268	131.515	200.355	8.649	190.624	207.165
16406	ENSG00000261526		-1.5	4.675E-05	0.0004854	7.851	0.666	7.331	8.602	12.368	0.981	11.434	13.390
16408	ENSG00000261716		-1.5	1.113E-06	2.089E-05	5.399	0.851	4.504	6.197	8.264	0.206	8.027	8.405
16410	ENSG00000263571		-1.5	0.0064478	0.0257683	1.368	0.212	1.151	1.575	2.041	0.120	1.959	2.179
16411	ENSG00000270605		-1.5	0.0002056	0.0016275	8.528	0.460	8.043	8.957	12.703	1.191	11.901	14.072
16412	ENSG00000280142		-1.5	5.479E-07	1.168E-05	50.775	5.585	44.891	56.003	77.584	2.086	75.227	79.196
16413	ENSG00000274893		1.6	0.0576466	0.1414036	1.101	0.045	1.069	1.152	0.689	0.351	0.330	1.031
16415	ENSG00000205746		-1.4	6.292E-07	1.304E-05	9.646	0.341	9.377	10.029	13.381	0.953	12.790	14.480
16416	ENSG00000232098		-1.4	0.0004043	0.0028141	4.161	0.488	3.655	4.628	5.943	0.344	5.587	6.273
16417	ENSG00000232842		-1.4	0.0001034	0.0009277	15.936	2.391	14.024	18.617	23.210	2.092	21.849	25.619
16418	ENSG00000234072		-1.4	0.0001217	0.0010607	8.384	0.500	7.823	8.780	11.730	1.143	10.660	12.934
16419	ENSG00000235688		-1.4	0.0002826	0.0021111	40.584	1.832	38.648	42.291	57.380	3.477	54.184	61.083
16420	ENSG00000239559		-1.4	0.0037521	0.0168525	36.925	3.460	34.577	40.898	51.052	4.533	46.173	55.132
16421	ENSG00000246465		-1.4	0.0011493	0.0065734	5.033	0.669	4.264	5.475	7.062	0.672	6.556	7.824
16422	ENSG00000253838		-1.4	0.0063696	0.0255139	91.499	13.396	76.717	102.838	128.015	17.375	113.466	147.253
16423	ENSG00000269994		-1.4	0.0050205	0.0212122	4.650	0.593	3.999	5.158	6.591	0.406	6.136	6.918
16424	ENSG00000280987		-1.4	3.91E-06	6.007E-05	6.091	0.533	5.556	6.621	8.551	0.331	8.309	8.929
16425	ENSG00000282048		-1.4	0.0056247	0.0232141	99.843	16.158	84.793	116.917	138.650	7.090	131.378	145.544
16426	ENSG00000253200		1.5	0.06842	0.1609216	1.203	0.274	0.967	1.503	0.826	0.191	0.607	0.960
16427	ENSG00000254365		1.5	0.0697698	0.1634121	32.720	16.199	20.510	51.097	22.710	2.671	19.895	25.209
16428	ENSG00000254951		1.5	0.0582848	0.1425432	1.014	0.128	0.898	1.152	0.685	0.309	0.388	1.005
16429	ENSG00000268220		1.5	0.1176899	0.2395871	1.138	0.400	0.829	1.589	0.777	0.071	0.703	0.843
16430	ENSG00000279400		1.5	0.0554188	0.1374538	1.629	0.205	1.395	1.778	1.142	0.223	0.900	1.340
16431	ENSG00000213090		1.4	0.0649192	0.154623	1.196	0.055	1.148	1.256	0.852	0.149	0.694	0.990
16432	ENSG00000228010		1.4	0.1235595	0.2482787	2.297	0.869	1.301	2.903	1.664	0.291	1.356	1.935
16434	ENSG00000232531		1.4	0.0683927	0.1608988	4.107	1.179	2.988	5.338	3.029	0.321	2.663	3.263
16435	ENSG00000237868		1.4	0.0925159	0.2021344	7.472	0.358	7.154	7.860	5.567	1.188	4.215	6.446
16436	ENSG00000253476		1.4	0.1242934	0.2493386	6.263	0.683	5.643	6.995	4.751	0.933	3.824	5.689

	A	B	C	D	E	F	G	H	I	J	K	L	M
16438	ENSG00000255121		1.4	0.0580915	0.1421906	3.932	1.026	3.166	5.098	2.885	1.043	1.973	4.022
16439	ENSG00000259834		1.4	0.0779298	0.1777513	1.007	0.239	0.813	1.273	0.715	0.154	0.623	0.892
16440	ENSG00000262587		1.4	0.0641599	0.1532916	3.859	0.406	3.409	4.199	2.882	0.579	2.222	3.310
16441	ENSG00000269514		1.4	0.1028985	0.217622	0.881	0.224	0.648	1.094	0.639	0.186	0.515	0.852
16442	ENSG00000274253		1.4	0.1196659	0.2422973	1.728	0.641	1.081	2.362	1.233	0.254	0.947	1.430
16443	ENSG00000183458		-1.3	0.0002961	0.002189	3.830	0.365	3.429	4.143	5.184	0.580	4.748	5.843
16444	ENSG00000212978		-1.3	0.0034652	0.0158109	5.592	0.662	5.037	6.326	7.414	0.624	6.893	8.105
16445	ENSG00000214558		-1.3	0.0011729	0.0066859	8.140	1.103	6.869	8.838	10.774	0.331	10.572	11.155
16446	ENSG00000279048		1.4	0.0567535	0.1396381	1.734	0.403	1.478	2.198	1.249	0.141	1.163	1.412
16447	ENSG00000217835		-1.3	0.0020763	0.0104512	17.074	2.792	14.860	20.210	23.141	1.360	21.961	24.629
16448	ENSG00000224126		-1.3	6.54E-05	0.000639	84.513	0.851	83.531	85.044	111.361	8.389	105.884	121.019
16449	ENSG00000282304		1.4	0.0633353	0.1518988	4.477	0.450	3.963	4.796	3.328	0.144	3.221	3.492
16450	ENSG00000227827		-1.3	3.355E-05	0.0003659	3.237	0.165	3.050	3.362	4.402	0.346	4.147	4.796
16451	ENSG00000228709		-1.3	0.0026946	0.0129469	13.370	0.946	12.579	14.418	18.101	0.614	17.539	18.756
16452	ENSG00000233223		-1.3	0.0014242	0.0077602	19.887	2.297	17.874	22.390	26.710	1.958	24.449	27.889
16453	ENSG00000235560		-1.3	0.0025336	0.0123029	6.487	0.607	5.822	7.013	8.954	1.190	7.876	10.231
16454	ENSG00000244560		-1.3	0.0090666	0.033628	2.670	0.113	2.594	2.800	3.533	0.250	3.273	3.772
16455	ENSG00000248605		-1.3	1.455E-06	2.593E-05	64.195	7.576	58.447	72.780	86.178	0.439	85.680	86.511
16456	ENSG00000262160		-1.3	0.0026563	0.0128031	8.769	1.143	7.998	10.082	11.289	0.977	10.683	12.416
16457	ENSG00000267194		-1.3	0.0073359	0.028529	8.617	1.326	7.257	9.906	11.091	1.565	9.613	12.730
16458	ENSG00000272106		-1.3	0.008305	0.0314624	8.794	0.915	7.974	9.780	11.308	0.510	10.973	11.895
16459	ENSG00000273015		-1.3	1.454E-05	0.0001818	9.038	0.627	8.321	9.484	11.627	0.392	11.189	11.943
16460	ENSG00000274090		-1.3	0.0002046	0.0016213	267.336	27.863	247.688	299.224	357.641	14.269	344.294	372.682
16461	ENSG00000274925		-1.3	0.0036808	0.0166055	5.706	0.194	5.498	5.881	7.495	0.591	7.130	8.176
16462	ENSG00000279088		-1.3	7.967E-05	0.0007506	29.277	1.214	27.965	30.361	39.291	2.331	37.075	41.722
16463	ENSG00000279342		-1.3	0.0079483	0.0304571	5.242	0.337	4.871	5.528	6.855	0.681	6.118	7.461
16464	ENSG00000280123		-1.3	0.0010195	0.0059664	14.698	0.982	13.564	15.269	18.957	0.792	18.176	19.760
16465	ENSG00000280511		-1.3	2.839E-07	6.688E-06	211.994	17.722	196.074	231.089	287.369	20.034	269.736	309.153
16466	ENSG00000272583		2.1	0.0107193	0.0385408	4.793	1.955	2.546	6.101	2.296	0.546	1.673	2.697
16468	ENSG00000254297		2	0.0291504	0.0844068	36.853	20.513	20.922	59.999	18.700	5.085	14.859	24.466
16469	ENSG00000197462		1.3	0.113449	0.233256	72.079	22.810	57.661	98.377	58.082	2.847	54.796	59.816
16470	ENSG00000280239		1.8	0.0174237	0.056616	1.493	0.366	1.176	1.894	0.859	0.257	0.576	1.080
16471	ENSG00000265273		1.7	0.0149818	0.0503954	1.987	0.150	1.861	2.153	1.170	0.345	0.916	1.563
16472	ENSG00000272983		1.7	0.0235316	0.0715979	0.454	0.068	0.377	0.502	0.273	0.072	0.220	0.354
16473	ENSG00000203739		1.3	0.0979063	0.2100598	2.098	0.414	1.697	2.525	1.628	0.134	1.536	1.782
16474	ENSG00000215895		1.6	0.0262649	0.0778438	1.491	0.237	1.218	1.647	0.947	0.131	0.806	1.064
16475	ENSG00000258734		1.6	0.0162822	0.0538272	7.878	1.144	6.582	8.746	4.941	0.977	4.021	5.967
16476	ENSG00000259033		1.6	0.0131784	0.0455334	11.577	2.660	8.574	13.635	7.264	1.339	5.893	8.568
16477	ENSG00000267547		1.6	0.0462554	0.119657	4.230	0.578	3.577	4.674	2.673	0.301	2.330	2.892
16478	ENSG00000275494		1.6	0.0193579	0.0613915	6.935	0.496	6.363	7.254	4.384	0.308	4.072	4.688
16479	ENSG00000279789		1.6	0.0180745	0.0583162	1.598	0.031	1.562	1.616	1.040	0.080	0.989	1.133
16480	ENSG00000280099		1.6	0.0266846	0.07875	2.415	0.223	2.237	2.666	1.587	0.447	1.085	1.944
16481	ENSG00000228274		1.5	0.0106019	0.0382241	1.574	0.276	1.275	1.819	1.065	0.227	0.838	1.292

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16482	ENSG00000215493		1.3	0.1164853	0.2378506	2.697	0.235	2.428	2.863	2.131	0.231	1.911	2.371
16483	ENSG00000231466		1.5	0.0412719	0.1095295	4.145	0.598	3.725	4.830	2.834	0.404	2.406	3.209
16484	ENSG00000243440		1.5	0.0312991	0.0891783	2.821	0.616	2.208	3.441	1.927	0.967	0.828	2.650
16485	ENSG00000250746		1.5	0.0150061	0.050457	2.799	0.671	2.209	3.529	1.936	0.188	1.774	2.142
16486	ENSG00000254946		1.5	0.0370833	0.1010131	6.922	1.512	5.692	8.610	4.675	1.479	3.013	5.845
16487	ENSG00000259562		1.5	0.0163271	0.0539547	7.811	1.516	6.860	9.560	5.451	0.927	4.693	6.483
16488	ENSG00000232063		1.3	0.0892361	0.1967989	2.169	0.103	2.102	2.288	1.672	0.279	1.351	1.855
16489	ENSG00000233178		1.3	0.0945995	0.205413	1.374	0.333	1.032	1.696	1.077	0.132	0.988	1.229
16490	ENSG00000260686		1.5	0.04244	0.1118573	1.925	0.578	1.300	2.440	1.321	0.347	0.927	1.580
16491	ENSG00000266865		1.5	0.0112793	0.0401446	2.587	0.234	2.430	2.856	1.727	0.342	1.506	2.122
16492	ENSG00000268379		1.5	0.0468461	0.1208155	1.634	0.395	1.354	2.085	1.117	0.095	1.019	1.208
16493	ENSG00000236048		1.3	0.0663995	0.1574835	4.487	0.902	3.526	5.317	3.450	0.776	2.601	4.123
16494	ENSG00000237310		1.3	0.1027672	0.2173986	12.520	1.812	10.484	13.953	10.232	1.047	9.203	11.295
16495	ENSG00000237863		1.3	0.0877389	0.1943587	4.681	0.467	4.142	4.973	3.729	0.517	3.132	4.043
16496	ENSG00000240132		1.3	0.0731274	0.1694483	5.245	0.217	5.120	5.496	4.154	1.647	2.350	5.577
16497	ENSG00000272821		1.5	0.0330885	0.0930537	4.965	1.242	4.144	6.393	3.408	0.851	2.906	4.390
16498	ENSG00000273001		1.5	0.0213447	0.0663366	9.489	2.274	8.174	12.115	6.607	0.842	6.063	7.576
16499	ENSG00000281091		1.5	0.0290908	0.0842633	11.807	3.304	8.794	15.340	8.136	1.162	6.863	9.140
16500	ENSG00000179859		1.4	0.0239011	0.0724312	1.857	0.311	1.500	2.069	1.320	0.276	1.157	1.639
16501	ENSG00000214654		1.4	0.012816	0.0444904	5.387	0.366	5.159	5.810	3.990	0.845	3.036	4.644
16502	ENSG00000237594		1.4	0.0466445	0.1204426	6.246	1.617	4.673	7.903	4.585	0.287	4.376	4.912
16503	ENSG00000258815		1.4	0.0478081	0.1226978	10.084	1.284	8.819	11.386	7.266	1.480	5.726	8.678
16504	ENSG00000260461		1.4	0.029983	0.0862565	2.627	0.436	2.288	3.119	1.929	0.268	1.677	2.211
16505	ENSG00000276334		1.4	0.0333831	0.09367	3.353	0.680	2.915	4.136	2.395	0.257	2.108	2.605
16506	ENSG00000254701		1.3	0.0982568	0.2105965	7.368	0.550	6.755	7.820	5.719	1.029	4.767	6.810
16507	ENSG00000276846		1.4	0.032928	0.0927777	7.347	1.010	6.671	8.508	5.304	1.420	3.712	6.439
16508	ENSG00000282012		1.4	0.0166925	0.0548515	11.416	2.607	8.414	13.107	8.241	1.023	7.068	8.945
16509	ENSG00000215154		1.3	0.0240118	0.0726628	5.347	0.488	4.865	5.841	4.326	0.650	3.610	4.880
16510	ENSG00000225302		1.3	0.0268555	0.079138	2.394	0.310	2.092	2.712	1.875	0.512	1.398	2.417
16511	ENSG00000260025		1.3	0.0774265	0.1768419	20.087	4.123	15.468	23.397	16.011	2.845	12.729	17.783
16512	ENSG00000260521		1.3	0.0944906	0.2052556	4.013	1.170	3.076	5.325	3.144	0.318	2.780	3.365
16514	ENSG00000232320		1.3	0.0397031	0.1063254	28.516	3.729	26.004	32.800	23.161	4.348	19.595	28.005
16515	ENSG00000232533		1.3	0.0109632	0.0392507	30.707	0.547	30.076	31.039	24.713	3.890	22.406	29.204
16516	ENSG00000240809		1.3	0.0362291	0.0993907	6.735	0.367	6.388	7.120	5.360	0.869	4.545	6.274
16517	ENSG00000261620		1.3	0.1187974	0.2410004	10.894	1.668	9.049	12.295	8.658	1.667	7.338	10.532
16518	ENSG00000254510		1.3	0.0185747	0.0594403	7.536	0.371	7.109	7.771	5.750	0.683	5.057	6.422
16520	ENSG00000255085		1.3	0.0393404	0.1056135	5.494	0.649	5.055	6.240	4.321	0.779	3.775	5.213
16521	ENSG00000269825		1.3	0.1086565	0.2265418	2.026	0.904	1.151	2.957	1.571	0.234	1.309	1.758
16522	ENSG00000272578		1.3	0.1042508	0.2197319	1.072	0.046	1.024	1.116	0.870	0.134	0.758	1.019
16523	ENSG00000273448		1.3	0.0963802	0.2077857	3.600	0.919	2.763	4.583	2.802	0.203	2.574	2.962
16524	ENSG00000261116		1.3	0.0233935	0.071302	5.108	0.152	4.933	5.197	3.974	0.797	3.155	4.748
16525	ENSG00000278066		1.3	0.0683713	0.1608742	10.609	0.533	10.295	11.225	8.494	0.484	7.984	8.948
16526	ENSG00000261167		1.3	0.025924	0.0770161	3.335	0.281	3.063	3.625	2.597	0.360	2.297	2.996

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16527	ENSG00000261490		1.3	0.0254776	0.0760641	2.504	0.609	1.810	2.944	1.907	0.051	1.858	1.961
16528	ENSG00000278573		1.3	0.0687168	0.1615298	8.020	0.630	7.479	8.712	6.150	0.360	5.813	6.528
16529	ENSG00000279095		1.3	0.0705031	0.1646759	3.896	0.537	3.276	4.225	3.153	0.551	2.545	3.621
16530	ENSG00000279369		1.3	0.0971086	0.2088236	2.896	0.316	2.614	3.238	2.290	0.416	1.830	2.639
16531	ENSG00000274114		1.3	0.0386211	0.1040787	1.939	0.159	1.780	2.099	1.503	0.258	1.206	1.665
16532	ENSG00000280114		1.3	0.0940741	0.2045333	3.528	0.449	3.081	3.978	2.755	0.447	2.270	3.150
16533	ENSG00000279117		1.3	0.017233	0.0561115	13.447	3.321	11.058	17.240	10.818	1.498	9.100	11.849
16534	ENSG00000152117		-1.2	5.218E-05	0.0005297	19.359	0.988	18.225	20.035	24.627	1.546	23.430	26.373
16535	ENSG00000176593		-1.2	0.0062996	0.0253077	5.084	0.384	4.646	5.360	6.091	0.367	5.698	6.425
16536	ENSG00000183889		-1.2	0.0014832	0.0080146	3.958	0.051	3.911	4.013	4.957	0.300	4.700	5.286
16537	ENSG00000213280		-1.2	2.85E-05	0.0003199	260.525	11.027	249.398	271.449	321.343	19.527	299.812	337.906
16538	ENSG00000216285		-1.2	7.379E-06	0.0001029	292.122	9.739	282.174	301.638	355.269	28.924	321.880	372.661
16539	ENSG00000233024		-1.2	0.0064108	0.0256524	9.494	0.302	9.169	9.766	11.622	0.681	10.989	12.343
16540	ENSG00000251095		-1.2	0.0002022	0.0016106	63.283	5.367	60.144	69.480	80.768	5.604	76.920	87.197
16541	ENSG00000260261		-1.2	0.0073087	0.0284559	6.430	0.967	5.338	7.175	8.187	0.778	7.451	9.001
16542	ENSG00000260404		-1.2	0.0035859	0.0162554	6.616	0.246	6.424	6.893	8.162	0.515	7.750	8.739
16543	ENSG00000260912		-1.2	0.0032946	0.0151869	13.969	1.266	13.007	15.403	17.725	1.922	15.569	19.261
16544	ENSG00000264112		-1.2	0.0005309	0.0035163	12.072	0.159	11.889	12.176	14.930	1.162	13.589	15.649
16545	ENSG00000282458		-1.2	0.0013453	0.0074213	6.174	0.207	6.045	6.413	7.636	0.239	7.437	7.900
16546	ENSG00000226268		1.2	0.0255276	0.0761595	30.668	0.197	30.452	30.838	26.682	3.955	23.886	31.207
16547	ENSG00000233087		1.2	0.1112168	0.2302254	3.587	0.418	3.135	3.960	3.077	0.429	2.740	3.560
16548	ENSG00000233184		1.2	0.0408473	0.1086257	5.474	0.835	4.774	6.399	4.561	0.753	3.937	5.397
16549	ENSG00000237087		1.2	0.0411928	0.1093509	37.226	8.543	28.984	46.041	31.056	2.028	29.843	33.398
16551	ENSG00000238165		1.2	0.1098922	0.22833	32.516	5.155	29.174	38.453	27.034	2.456	24.199	28.504
16552	ENSG00000246090		1.2	0.0198823	0.0627133	2.771	0.052	2.714	2.818	2.346	0.108	2.234	2.450
16553	ENSG00000249042		1.2	0.0539816	0.1347388	19.192	3.446	15.231	21.503	16.515	0.491	16.010	16.992
16554	ENSG00000253204		1.2	0.1191673	0.2416313	38.596	4.391	33.646	42.020	33.289	6.316	27.194	39.805
16555	ENSG00000254373		1.2	0.1099473	0.2283885	39.605	2.527	36.687	41.088	33.987	6.521	27.555	40.594
16556	ENSG00000258895		1.2	0.1023306	0.2166376	14.768	1.615	12.919	15.901	12.283	1.066	11.072	13.083
16557	ENSG00000259865		1.2	0.0689231	0.1618798	11.510	0.866	11.001	12.509	9.693	1.487	8.288	11.251
16558	ENSG00000260075		1.2	0.0168331	0.0552063	12.893	0.614	12.184	13.275	10.760	1.229	9.530	11.988
16559	ENSG00000261189		1.2	0.1009805	0.2145313	8.169	1.417	6.543	9.145	6.699	0.820	5.946	7.573
16560	ENSG00000261780		1.2	0.0581782	0.1423153	13.005	3.566	9.701	16.785	11.122	0.895	10.479	12.144
16561	ENSG00000268225		1.2	0.1027406	0.2173696	17.399	1.710	15.747	19.161	15.454	1.144	14.279	16.564
16562	ENSG00000269937		1.2	0.1138532	0.2338027	1.928	0.349	1.608	2.301	1.590	0.246	1.388	1.863
16563	ENSG00000272316		1.2	0.0666899	0.1579764	4.563	0.617	3.963	5.197	3.986	0.377	3.724	4.418
16564	ENSG00000273117		1.2	0.0138359	0.0473313	15.353	0.824	14.465	16.092	12.955	0.717	12.240	13.675
16565	ENSG00000273247		1.2	0.0232044	0.0708149	2.713	0.146	2.545	2.810	2.265	0.236	1.993	2.419
16566	ENSG00000279348		1.2	0.0910864	0.2001747	4.479	0.480	4.119	5.024	3.663	1.091	2.524	4.697
16567	ENSG00000280056		1.2	0.1040738	0.2195037	79.740	8.703	70.816	88.203	67.450	11.456	56.466	79.325
16568	ENSG00000280128		1.2	0.0223132	0.0686025	8.658	0.748	8.212	9.522	7.420	0.744	6.575	7.976
16569	ENSG00000280322		1.2	0.116527	0.2379068	13.102	1.626	11.250	14.296	11.263	1.959	9.058	12.800
16570	ENSG00000282978		1.2	0.038009	0.102877	35.928	1.752	33.932	37.211	30.134	4.900	24.477	33.072

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16571	ENSG00000283674		1.2	0.0263861	0.078101	3.521	0.246	3.237	3.670	2.920	0.188	2.706	3.058
16572	ENSG00000183199		-1.1	0.0070024	0.0275221	142.752	1.128	141.535	143.763	158.552	1.785	156.723	160.290
16573	ENSG00000186076		-1.1	0.0001931	0.0015523	449.949	3.685	445.736	452.572	521.281	39.857	475.678	549.454
16574	ENSG00000189343		-1.1	0.0066576	0.0264444	1095.445	3.466	1093.351	1099.446	1203.727	62.443	1153.281	1273.566
16575	ENSG00000196656		-1.1	0.0078367	0.0301371	249.776	3.622	246.343	253.561	282.031	8.396	273.775	290.560
16576	ENSG00000226121		-1.1	0.00921	0.0340333	15.771	0.398	15.355	16.148	17.960	1.100	16.860	19.060
16578	ENSG00000228532		-1.1	0.002752	0.0131707	482.757	20.491	459.724	498.960	553.177	16.761	536.727	570.232
16579	ENSG00000235552		-1.1	0.0019048	0.0097918	1453.216	23.718	1437.759	1480.524	1606.867	44.376	1577.531	1657.919
16580	ENSG00000240376		-1.1	0.008655	0.0324285	340.173	26.359	309.765	356.515	381.951	18.090	364.418	400.550
16581	ENSG00000242299		-1.1	0.0021691	0.0107966	1222.040	47.704	1168.079	1258.604	1378.268	40.331	1334.248	1413.441
16582	ENSG00000243199		-1.1	0.0002127	0.0016724	458.969	3.747	455.621	463.016	525.191	7.011	518.022	532.033
16584	ENSG00000244313		-1.1	0.0006745	0.0042518	1767.476	61.619	1712.292	1833.964	2007.825	96.779	1939.621	2118.591
16585	ENSG00000249532		-1.1	0.0004919	0.0033082	2077.291	94.432	1968.265	2133.314	2415.883	120.315	2333.671	2553.976
16586	ENSG00000249790		-1.1	6.231E-05	0.0006138	153.521	6.594	148.151	160.881	179.093	8.256	169.562	184.058
16587	ENSG00000254277		-1.1	0.0052161	0.0218033	190.308	6.877	185.749	198.218	216.592	12.611	203.006	227.924
16588	ENSG00000170846		1.1	0.020139	0.0634166	26.178	0.536	25.816	26.795	23.821	1.197	22.491	24.812
16589	ENSG00000198134		1.1	0.1236655	0.248449	76.874	8.224	67.388	81.987	69.838	6.190	62.810	74.482
16590	ENSG00000204745		1.1	0.1178045	0.2397338	21.860	0.109	21.744	21.960	20.890	1.203	19.720	22.124
16591	ENSG00000214019		1.1	0.112204	0.2316537	14.099	1.384	12.629	15.378	12.697	0.266	12.394	12.893
16592	ENSG00000216775		1.1	0.0717086	0.1668925	25.196	0.822	24.365	26.009	23.597	1.847	21.666	25.347
16593	ENSG00000227288		1.1	0.0372485	0.1012906	38.748	2.829	35.860	41.514	35.342	3.749	31.136	38.329
16594	ENSG00000227671		1.1	0.0263992	0.0781258	52.536	6.878	47.799	60.425	47.790	2.507	46.268	50.684
16596	ENSG00000228335		1.1	0.1166412	0.2379965	33.638	1.872	31.499	34.976	30.214	0.885	29.502	31.205
16597	ENSG00000230623		1.1	0.0175272	0.0568322	60.298	2.790	57.783	63.299	56.088	4.795	50.596	59.443
16598	ENSG00000231747		1.1	0.0919675	0.2013263	84.201	10.729	71.812	90.458	75.297	6.645	69.190	82.374
16599	ENSG00000235105		1.1	0.0388752	0.1045471	31.072	1.925	29.572	33.242	27.766	3.314	24.916	31.402
16600	ENSG00000237493		1.1	0.0127206	0.0442142	141.033	11.045	130.855	152.778	128.422	4.930	122.737	131.516
16601	ENSG00000247134		1.1	0.0342177	0.0953913	85.514	3.965	81.885	89.745	78.526	5.557	72.879	83.989
16602	ENSG00000254719		1.1	0.1246693	0.2499444	98.858	7.022	93.932	106.898	89.116	9.067	81.574	99.175
16603	ENSG00000254893		1.1	0.0131064	0.0453218	101.146	1.080	100.097	102.255	94.884	4.096	91.267	99.331
16604	ENSG00000256663		1.1	0.0734811	0.1699653	17.778	2.217	16.123	20.297	15.818	1.280	14.484	17.036
16605	ENSG00000257773		1.1	0.0258353	0.0768742	40.662	0.424	40.215	41.059	36.551	0.480	36.096	37.052
16606	ENSG00000259959		1.1	0.1170027	0.2385326	8.086	0.798	7.241	8.827	7.396	1.026	6.563	8.542
16607	ENSG00000272779		1.1	0.1002225	0.2135648	48.484	0.842	47.731	49.392	45.445	3.150	43.365	49.070
16608	ENSG00000273654		1.1	0.0923713	0.20191	33.380	1.481	32.127	35.015	31.042	2.036	29.176	33.214
16609	ENSG00000277103		1.1	0.11213	0.2315574	22.551	0.164	22.381	22.709	20.239	0.800	19.330	20.835
16610	ENSG00000279307		1.1	0.079374	0.1802433	50.211	0.911	49.370	51.179	44.821	7.894	36.033	51.310
16611	ENSG00000185641		-1	0.1110981	0.2300442	1444.929	50.263	1410.031	1502.540	1545.205	27.295	1524.576	1576.155
16612	ENSG00000244398		-1	0.0912004	0.2003731	3529.469	49.101	3491.658	3584.961	3759.231	119.060	3651.234	3886.904
16613	ENSG00000283041		-1	0.1079611	0.2254811	1511.761	28.329	1484.153	1540.760	1606.198	46.024	1553.208	1636.199
16614	ENSG00000111788		-1.1	0.0141342	0.0481377	15.515	0.992	14.376	16.190	18.230	0.614	17.535	18.698
16615	ENSG00000166503		1.1	0.0001039	0.000931	28.797	1.297	27.861	30.277	25.952	0.481	25.500	26.458
16616	ENSG00000180574		1.1	0.0001909	0.0015369	147.380	5.280	142.437	152.943	132.724	8.207	123.552	139.372

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16618	ENSG00000213080		1.1	0.0045837	0.0197716	236.534	5.091	233.225	242.396	218.982	11.447	210.487	231.999
16619	ENSG00000232445		1.1	0.0018736	0.0096612	266.340	12.513	253.928	278.951	241.364	14.557	230.051	257.787
16620	ENSG00000254612		1.1	1.007E-05	0.0001343	549.527	8.664	540.402	557.640	489.740	5.992	483.641	495.619
16621	ENSG00000269378		1.1	0.0035487	0.0161256	369.379	14.199	353.748	381.479	342.715	6.932	337.747	350.635
16622	ENSG00000167524		-1.1	0.0232592	0.0709438	8.270	0.129	8.137	8.396	9.707	0.802	9.198	10.632
16623	ENSG00000167674		-1.1	0.0166316	0.0547089	64.998	2.135	62.762	67.014	72.036	0.760	71.382	72.870
16624	ENSG00000168824		-1.1	0.0276148	0.0809022	13.752	0.299	13.425	14.011	15.764	1.713	14.715	17.741
16625	ENSG00000172974		-1.1	0.0146458	0.0495111	462.066	2.099	459.653	463.472	505.431	8.754	497.598	514.881
16626	ENSG00000179101		-1.1	0.0613049	0.1480364	141.879	5.279	136.095	146.437	159.396	6.799	151.558	163.701
16627	ENSG00000213598		-1.1	0.0402149	0.1074155	92.154	2.459	89.333	93.841	106.739	10.757	94.411	114.213
16628	ENSG00000213862		-1.1	0.0303373	0.0870093	318.828	14.417	303.920	332.699	353.141	28.548	329.317	384.784
16629	ENSG00000213939		-1.1	0.05527	0.1371763	184.934	12.741	176.751	199.614	209.366	20.347	186.398	225.133
16631	ENSG00000214135		-1.1	0.0140037	0.0477877	18.019	0.599	17.437	18.635	20.743	0.397	20.320	21.109
16632	ENSG00000224550		-1.1	0.0957776	0.2070143	126.268	7.251	120.637	134.450	143.811	13.183	129.914	156.139
16633	ENSG00000224831		-1.1	0.1000669	0.2133407	105.071	3.110	101.965	108.185	114.613	3.640	111.381	118.556
16634	ENSG00000226210		-1.1	0.0334345	0.0937464	24.141	1.860	22.003	25.382	27.943	1.363	26.730	29.419
16635	ENSG00000226221		-1.1	0.019556	0.0618873	1599.104	44.140	1564.683	1648.868	1746.266	73.313	1678.729	1824.237
16636	ENSG00000226360		-1.1	0.0610721	0.1476644	495.414	20.316	473.657	513.889	538.526	10.070	527.068	545.971
16637	ENSG00000228305		-1.1	0.0264159	0.0781344	89.964	5.133	84.374	94.464	103.430	5.701	99.871	110.005
16638	ENSG00000230897		-1.1	0.0202256	0.0636063	543.948	12.775	532.357	557.645	604.510	44.975	555.170	643.214
16639	ENSG00000236673		-1.1	0.1063356	0.2228292	18.004	3.171	15.379	21.527	20.799	1.564	19.293	22.415
16640	ENSG00000236814		-1.1	0.0109493	0.039226	81.975	1.271	80.521	82.875	92.697	0.895	91.788	93.578
16641	ENSG00000239246		-1.1	0.0258767	0.0769568	83.530	3.168	81.501	87.181	97.992	4.555	94.594	103.167
16642	ENSG00000239665		-1.1	0.0563335	0.1390295	2.250	0.164	2.095	2.422	2.607	0.238	2.369	2.846
16643	ENSG00000240342		-1.1	0.0311306	0.0888618	1787.216	24.646	1772.756	1815.674	1939.220	48.611	1886.069	1981.424
16644	ENSG00000241556		-1.1	0.0496653	0.1263903	54.608	0.738	53.765	55.140	63.928	3.210	61.278	67.498
16645	ENSG00000250568		-1.1	0.0405534	0.1081487	101.434	2.486	99.745	104.289	118.386	7.083	110.224	122.914
16646	ENSG00000253341		-1.1	0.0221973	0.068296	130.750	7.984	121.538	135.664	147.287	10.269	135.432	153.430
16647	ENSG00000255135		-1.1	0.0491669	0.1254996	43.424	3.049	40.338	46.434	50.537	2.455	47.708	52.110
16648	ENSG00000256210		-1.1	0.0745275	0.1716344	154.751	5.294	149.108	159.607	176.956	9.749	166.536	185.856
16649	ENSG00000260822		-1.1	0.024445	0.0736663	18.298	0.527	17.694	18.668	20.625	0.817	19.786	21.418
16650	ENSG00000264350		-1.1	0.0552744	0.1371763	234.424	7.768	225.455	238.995	266.297	7.667	257.782	272.653
16651	ENSG00000267002		-1.1	0.0147921	0.0498862	7.066	0.374	6.661	7.399	8.243	0.057	8.199	8.308
16652	ENSG00000269374		-1.1	0.0838964	0.1882883	59.652	4.648	54.876	64.159	68.211	9.310	58.241	76.678
16653	ENSG00000270015		-1.1	0.1118188	0.2311122	23.779	2.708	20.658	25.507	26.808	1.442	25.289	28.158
16654	ENSG00000275131		-1.1	0.0750185	0.1725303	3.583	0.170	3.455	3.776	4.075	0.119	3.960	4.198
16655	ENSG00000275464		-1.1	0.0325842	0.0920336	9.525	0.168	9.387	9.712	10.788	0.708	9.989	11.336
16657	ENSG00000276345		-1.1	0.1123912	0.2318138	39.209	2.464	37.450	42.026	44.448	1.150	43.232	45.517
16658	ENSG00000283390		-1.1	0.1187745	0.2409829	101.972	15.892	84.650	115.877	118.873	10.119	109.827	129.801
16659	ENSG00000177822		1.2	0.0033972	0.015571	6.785	0.455	6.361	7.266	5.767	0.350	5.539	6.170
16660	ENSG00000213846		1.2	6.196E-05	0.0006111	42.705	0.720	42.031	43.464	36.283	2.382	34.135	38.846
16661	ENSG00000215158		1.2	0.0012535	0.0070407	7.483	0.636	6.779	8.018	6.143	0.385	5.704	6.428
16662	ENSG00000232389		1.2	0.009136	0.0338267	34.868	2.720	32.417	37.794	29.684	4.697	24.635	33.923

	A	B	C	D	E	F	G	H	I	J	K	L	M
16663	ENSG00000254332		1.2	8.077E-05	0.0007585	140.101	3.959	136.204	144.119	120.370	3.797	116.498	124.088
16664	ENSG00000261409		1.2	0.0002852	0.0021251	16.842	0.937	15.762	17.445	13.844	1.709	12.278	15.667
16665	ENSG00000272335		1.2	0.004297	0.0187982	17.278	1.287	15.838	18.313	14.544	0.687	13.877	15.250
16666	ENSG00000280852		1.2	7.871E-05	0.0007441	204.141	13.191	188.936	212.533	178.364	11.504	168.684	191.081
16667	ENSG00000180015		-1.2	0.1134665	0.2332634	13.235	1.572	12.216	15.045	15.741	1.184	14.985	17.105
16668	ENSG00000213315		-1.2	0.0921844	0.2016705	14.233	0.910	13.625	15.279	17.968	1.954	16.298	20.117
16669	ENSG00000214796		-1.2	0.0351588	0.0972843	8.731	0.432	8.391	9.217	10.315	1.242	8.971	11.421
16670	ENSG00000219928		-1.2	0.059815	0.1453522	456.364	24.909	427.621	471.663	540.692	81.070	463.495	625.147
16671	ENSG00000230074		-1.2	0.0990136	0.2118696	13.511	1.998	11.989	15.774	16.884	1.670	15.052	18.320
16672	ENSG00000234028		-1.2	0.121664	0.2454482	3.633	0.562	3.139	4.244	4.293	0.275	3.980	4.496
16673	ENSG00000234327		-1.2	0.0674368	0.1593628	7.775	0.753	6.907	8.249	9.409	1.762	7.432	10.815
16674	ENSG00000235449		-1.2	0.0100301	0.0365442	112.403	13.325	102.588	127.573	140.576	14.716	125.165	154.481
16675	ENSG00000235554		-1.2	0.118199	0.2403054	12.436	1.042	11.527	13.574	14.752	1.515	13.058	15.979
16676	ENSG00000235776		-1.2	0.0145324	0.049246	47.900	2.076	46.050	50.145	56.705	2.968	53.430	59.217
16677	ENSG00000236792		-1.2	0.1040548	0.219491	21.601	2.925	19.009	24.773	26.800	3.895	23.137	30.891
16678	ENSG00000237094		-1.2	0.0920007	0.2013467	2.186	0.063	2.143	2.259	2.647	0.189	2.430	2.773
16679	ENSG00000239557		-1.2	0.0296208	0.0854082	14.696	0.952	13.862	15.734	18.147	0.920	17.284	19.115
16680	ENSG00000240291		-1.2	0.1087138	0.2265775	6.209	0.998	5.065	6.905	7.580	0.968	6.902	8.689
16682	ENSG00000241511		-1.2	0.05479	0.1363135	36.120	1.853	33.984	37.308	43.968	4.665	39.404	48.727
16683	ENSG00000242375		-1.2	0.0293729	0.0848332	48.058	4.063	43.375	50.649	57.566	2.950	54.388	60.217
16684	ENSG00000242474		-1.2	0.1120535	0.2314558	4.251	0.643	3.511	4.685	5.363	1.208	3.985	6.244
16685	ENSG00000243302		-1.2	0.0637318	0.1525901	12.505	3.559	9.182	16.260	15.661	2.194	13.398	17.779
16686	ENSG00000246130		-1.2	0.1032945	0.2182457	3.427	0.190	3.278	3.641	4.254	0.519	3.712	4.747
16687	ENSG00000248927		-1.2	0.1241826	0.2492494	6.648	0.034	6.627	6.687	8.150	0.248	7.940	8.424
16688	ENSG00000250575		-1.2	0.0913483	0.2004898	6.482	0.109	6.410	6.608	7.980	0.321	7.690	8.325
16689	ENSG00000251188		-1.2	0.0266506	0.078691	28.461	1.485	26.862	29.797	35.628	3.311	33.555	39.446
16690	ENSG00000253144		-1.2	0.0322073	0.0911669	33.994	2.502	31.843	36.740	41.371	1.677	39.534	42.820
16691	ENSG00000256673		-1.2	0.0772545	0.1764968	33.473	1.130	32.318	34.576	40.406	3.222	37.400	43.808
16692	ENSG00000257511		-1.2	0.0107627	0.0386884	20.879	1.471	19.613	22.492	26.019	2.027	23.829	27.830
16693	ENSG00000258199		-1.2	0.0712527	0.166037	24.750	1.871	22.715	26.395	30.880	3.942	26.503	34.152
16694	ENSG00000259086		-1.2	0.0217427	0.0673258	33.786	3.445	30.046	36.828	42.210	2.615	40.315	45.194
16695	ENSG00000259623		-1.2	0.032929	0.0927777	7.163	0.463	6.702	7.627	8.733	1.187	7.844	10.082
16696	ENSG00000260948		-1.2	0.0289423	0.083905	6.539	0.499	5.965	6.865	8.305	1.214	6.909	9.116
16697	ENSG00000262049		-1.2	0.0252777	0.0755873	6.094	0.145	5.974	6.255	7.660	0.172	7.463	7.766
16698	ENSG00000263535		-1.2	0.0261211	0.0775198	41.163	3.917	38.511	45.662	48.920	4.189	45.489	53.588
16699	ENSG00000263563		-1.2	0.0963588	0.2077857	9.365	0.721	8.922	10.198	11.195	1.637	9.735	12.964
16700	ENSG00000266066		-1.2	0.0463822	0.1199117	7.231	0.562	6.621	7.727	8.534	0.766	7.833	9.352
16701	ENSG00000266501		-1.2	0.1141834	0.2342562	15.075	2.955	12.267	18.159	19.091	3.171	16.237	22.504
16702	ENSG00000267055		-1.2	0.1079098	0.2254234	23.359	1.373	22.271	24.901	27.758	4.035	23.411	31.385
16703	ENSG00000268205		-1.2	0.0189583	0.0604537	4.777	0.448	4.404	5.274	6.099	1.371	4.523	7.016
16704	ENSG00000268573		-1.2	0.0158185	0.0526444	4.092	0.510	3.572	4.590	5.221	0.448	4.747	5.637
16705	ENSG00000268575		-1.2	0.1022092	0.2165041	1.980	0.609	1.440	2.640	2.452	0.075	2.380	2.530
16706	ENSG00000268858		-1.2	0.0494059	0.1258884	4.053	0.416	3.689	4.506	5.013	0.775	4.169	5.694

	A	B	C	D	E	F	G	H	I	J	K	L	M
16707	ENSG00000268903		-1.2	0.1094756	0.2276322	9.103	0.379	8.839	9.537	11.235	0.387	10.866	11.638
16708	ENSG00000270012		-1.2	0.0288902	0.0838134	4.692	0.253	4.408	4.894	5.945	0.655	5.530	6.700
16709	ENSG00000270580		-1.2	0.0600446	0.1456798	4.774	0.551	4.342	5.394	5.768	0.462	5.300	6.224
16710	ENSG00000270704		-1.2	0.1042694	0.2197319	29.461	5.197	25.242	35.267	36.733	5.285	32.301	42.582
16711	ENSG00000271576		-1.2	0.0422003	0.1113989	14.806	0.898	14.110	15.820	17.601	2.036	15.323	19.245
16712	ENSG00000272686		-1.2	0.0843788	0.1889471	9.875	1.369	8.517	11.254	11.664	1.083	10.416	12.356
16713	ENSG00000272831		-1.2	0.0659317	0.1565277	16.187	3.968	11.936	19.793	20.604	1.638	18.813	22.026
16714	ENSG00000273373		-1.2	0.0148116	0.049932	14.897	0.882	14.350	15.914	17.567	0.729	16.729	18.054
16715	ENSG00000274712		-1.2	0.0767225	0.1755183	8.276	0.737	7.442	8.843	9.927	0.897	9.333	10.960
16716	ENSG00000278041		-1.2	0.0176901	0.0572509	4.989	0.866	4.300	5.961	6.361	0.611	5.678	6.854
16717	ENSG00000278978		-1.2	0.0395328	0.1059785	27.239	2.822	24.265	29.880	33.033	1.403	32.012	34.633
16718	ENSG00000279207		-1.2	0.0273913	0.0804007	8.108	0.887	7.413	9.107	9.545	0.800	8.637	10.143
16719	ENSG00000279495		-1.2	0.0917644	0.2010639	4.420	0.769	3.574	5.077	5.377	0.555	4.781	5.878
16720	ENSG00000223559		1.3	3.858E-05	0.0004128	14.468	0.377	14.181	14.895	11.198	0.708	10.384	11.660
16721	ENSG00000227946		1.3	3.217E-05	0.0003538	65.621	4.440	60.828	69.594	52.089	2.002	50.066	54.069
16722	ENSG00000231686		1.3	0.0066483	0.0264197	18.664	1.435	17.484	20.262	14.938	0.460	14.527	15.434
16723	ENSG00000231698		1.3	0.0057087	0.0234631	11.256	1.013	10.402	12.376	8.643	0.509	8.071	9.046
16724	ENSG00000257337		1.3	0.005662	0.0233223	3.003	0.348	2.716	3.390	2.361	0.376	2.073	2.785
16725	ENSG00000258056		1.3	0.0098232	0.0359298	13.072	1.221	11.672	13.915	10.481	0.873	9.946	11.489
16726	ENSG00000260719		1.3	0.0054864	0.0227042	15.952	1.375	14.731	17.441	12.707	2.821	10.972	15.961
16727	ENSG00000264164		1.3	0.0013965	0.007641	58.609	3.612	54.990	62.214	47.235	2.955	44.273	50.183
16728	ENSG00000283236		1.3	0.0054153	0.0224593	8.425	0.721	7.597	8.904	6.769	1.075	5.548	7.572
16729	ENSG00000186235		-1.3	0.0492622	0.125686	1.563	0.129	1.424	1.677	2.149	0.463	1.722	2.642
16730	ENSG00000188897		1.4	0.0005478	0.0036019	2.057	0.430	1.562	2.333	1.510	0.177	1.362	1.707
16731	ENSG00000215146		1.4	2.141E-06	3.599E-05	26.326	0.305	26.136	26.678	19.740	0.698	18.950	20.274
16732	ENSG00000218418		1.4	0.0001773	0.0014497	4.257	0.315	3.943	4.572	3.163	0.150	3.059	3.335
16733	ENSG00000243004		1.4	5.71E-07	1.204E-05	74.423	8.083	67.695	83.390	55.354	6.339	50.683	62.570
16734	ENSG00000250899		1.4	3.434E-07	7.817E-06	23.852	1.756	21.835	25.042	17.932	1.313	16.432	18.871
16735	ENSG00000275993		1.4	0.000328	0.0023705	4.561	0.745	3.727	5.160	3.353	0.081	3.265	3.425
16736	ENSG00000276672		1.4	0.0023471	0.0115495	2.684	0.084	2.603	2.771	1.956	0.155	1.800	2.110
16737	ENSG00000277196		1.4	2.228E-10	1.332E-08	93.560	8.088	84.360	99.548	68.447	1.235	67.599	69.864
16738	ENSG00000278291		1.4	0.0032772	0.0151191	2.204	0.261	1.959	2.478	1.578	0.058	1.514	1.627
16739	ENSG00000197320		-1.3	0.0735802	0.1701589	2.540	0.453	2.034	2.908	3.351	0.666	2.916	4.118
16740	ENSG00000203819		-1.3	0.0303553	0.0870437	9.666	2.197	7.132	11.045	13.320	0.689	12.852	14.111
16741	ENSG00000215014		-1.3	0.1048624	0.2206679	1.550	0.545	1.205	2.178	2.149	0.504	1.712	2.701
16742	ENSG00000217060		-1.3	0.0863822	0.1922048	3.011	0.669	2.483	3.763	4.014	0.841	3.516	4.986
16744	ENSG00000218890		-1.3	0.0223987	0.0688278	5.557	0.529	5.037	6.093	7.385	0.538	6.770	7.770
16745	ENSG00000220323		-1.3	0.0925738	0.2022346	10.836	1.350	9.290	11.786	13.869	0.528	13.260	14.175
16746	ENSG00000225205		-1.3	0.0444253	0.1159033	3.169	0.594	2.536	3.714	4.199	1.165	3.324	5.521
16747	ENSG00000226986		-1.3	0.043869	0.1148362	12.534	2.983	10.380	15.938	16.243	2.253	13.646	17.684
16748	ENSG00000227627		-1.3	0.0168817	0.0553389	4.257	0.498	3.683	4.575	5.734	0.846	4.776	6.377
16749	ENSG00000228801		-1.3	0.1108846	0.2298299	3.101	0.516	2.802	3.697	4.005	1.406	2.680	5.480
16750	ENSG00000230715		-1.3	0.0408448	0.1086257	19.884	5.073	14.050	23.261	27.183	7.735	18.308	32.495

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16751	ENSG00000230922		-1.3	0.017932	0.0579008	6.384	1.550	4.701	7.755	8.731	1.745	7.513	10.731
16752	ENSG00000233834		-1.3	0.0392443	0.1054057	14.262	4.403	10.324	19.016	18.238	1.891	16.670	20.339
16753	ENSG00000234996		-1.3	0.0210247	0.0656314	2.873	0.404	2.610	3.338	3.930	0.367	3.667	4.349
16754	ENSG00000235245		-1.3	0.1104211	0.2290912	4.183	1.376	2.594	4.998	5.772	0.083	5.706	5.865
16755	ENSG00000235423		-1.3	0.1075748	0.2248965	1.800	0.305	1.513	2.121	2.420	0.349	2.049	2.742
16756	ENSG00000241764		-1.3	0.0787983	0.179442	3.565	0.925	2.703	4.542	4.927	0.653	4.291	5.597
16757	ENSG00000247363		-1.3	0.0976223	0.2096084	1.353	0.370	1.047	1.764	1.843	0.440	1.539	2.347
16758	ENSG00000247728		-1.3	0.0974561	0.2093825	4.757	1.075	3.840	5.940	6.205	0.355	5.815	6.511
16759	ENSG00000250320		-1.3	0.0523117	0.1315611	5.297	0.953	4.526	6.363	6.856	0.282	6.578	7.142
16760	ENSG00000254614		-1.3	0.0383112	0.103392	4.218	0.084	4.125	4.287	5.499	0.706	4.752	6.156
16761	ENSG00000255441		-1.3	0.0646414	0.1541568	4.692	0.841	3.749	5.362	6.226	0.133	6.144	6.380
16762	ENSG00000257086		-1.3	0.0122536	0.0429522	11.115	1.554	9.353	12.289	15.076	2.520	12.562	17.602
16763	ENSG00000257474		-1.3	0.0311958	0.0889439	4.539	0.061	4.485	4.606	6.028	0.359	5.799	6.441
16764	ENSG00000258559		-1.3	0.0222316	0.0683766	5.962	1.336	4.428	6.866	8.226	1.018	7.612	9.400
16765	ENSG00000260645		-1.3	0.0496262	0.1263097	3.817	0.830	3.269	4.772	5.015	0.797	4.096	5.525
16766	ENSG00000261578		-1.3	0.0282324	0.0823836	2.226	0.482	1.797	2.747	2.917	0.414	2.468	3.283
16768	ENSG00000261821		-1.3	0.0321629	0.091148	1.527	0.263	1.314	1.821	2.013	0.186	1.884	2.227
16769	ENSG00000262251		-1.3	0.0877695	0.1943801	5.284	0.340	4.913	5.580	6.885	0.604	6.188	7.262
16770	ENSG00000262877		-1.3	0.0855819	0.1908554	2.714	0.474	2.171	3.046	3.694	0.293	3.412	3.997
16771	ENSG00000265683		-1.3	0.1224576	0.2466604	4.007	0.619	3.452	4.674	5.532	1.973	4.272	7.805
16772	ENSG00000267787		-1.3	0.0509716	0.1288999	2.551	0.621	1.962	3.199	3.460	0.369	3.134	3.860
16773	ENSG00000268403		-1.3	0.0359904	0.0988963	9.983	2.685	7.857	13.001	13.022	1.450	11.349	13.908
16774	ENSG00000268649		-1.3	0.0346382	0.0961963	12.137	2.269	9.694	14.177	16.217	2.532	13.767	18.824
16775	ENSG00000269974		-1.3	0.0276242	0.0809159	10.840	1.325	9.350	11.884	14.504	0.919	13.442	15.043
16776	ENSG00000271966		-1.3	0.1004945	0.2138749	5.057	0.401	4.643	5.442	6.511	1.135	5.248	7.448
16777	ENSG00000272447		-1.3	0.0478296	0.1227343	4.820	0.940	3.927	5.801	6.219	0.266	5.968	6.498
16778	ENSG00000272870		-1.3	0.0968894	0.2084582	1.266	0.062	1.194	1.303	1.749	0.221	1.494	1.881
16779	ENSG00000273284		-1.3	0.0185724	0.0594403	10.928	0.449	10.451	11.342	14.366	0.558	13.878	14.975
16780	ENSG00000276248		-1.3	0.017513	0.0567973	4.759	0.755	3.952	5.449	6.256	1.217	5.127	7.545
16781	ENSG00000276524		-1.3	0.0881796	0.1951048	5.054	0.948	3.966	5.698	6.954	0.419	6.514	7.348
16782	ENSG00000278987		-1.3	0.1097135	0.2280149	1.968	0.406	1.707	2.436	2.659	0.462	2.135	3.010
16783	ENSG00000279619		-1.3	0.0144322	0.0489669	6.725	1.374	5.914	8.311	8.936	0.896	8.240	9.947
16784	ENSG00000279738		-1.3	0.1122194	0.2316571	0.221	0.039	0.183	0.261	0.296	0.064	0.224	0.346
16785	ENSG00000279878		-1.3	0.1204562	0.2435289	4.026	0.487	3.496	4.454	5.282	0.630	4.685	5.941
16786	ENSG00000280088		-1.3	0.018128	0.0584108	5.390	0.319	5.065	5.704	7.088	0.904	6.077	7.820
16787	ENSG00000283638		-1.3	0.0329335	0.0927777	1.955	0.259	1.658	2.140	2.617	0.223	2.372	2.808
16788	ENSG00000124593		-1.4	0.0674723	0.1593891	0.771	0.275	0.599	1.089	1.096	0.216	0.873	1.304
16789	ENSG00000198580		1.5	0.0031157	0.014533	12.511	0.933	11.443	13.163	8.310	2.029	6.487	10.496
16790	ENSG00000224848		1.5	0.0097243	0.0356296	16.624	3.328	13.896	20.332	11.470	3.676	9.135	15.707
16791	ENSG00000228592		1.5	7.873E-06	0.0001089	62.008	9.846	55.670	73.352	42.196	3.117	38.892	45.084
16792	ENSG00000234773		1.5	0.0052239	0.0218207	3.223	0.670	2.633	3.952	2.234	0.705	1.488	2.889
16793	ENSG00000245571		1.5	6.992E-05	0.0006746	9.801	0.858	8.825	10.438	6.896	1.293	5.617	8.202
16794	ENSG00000250241		1.5	0.0058092	0.0238012	2.442	0.580	2.093	3.112	1.676	0.187	1.529	1.886

	A	B	C	D	E	F	G	H	I	J	K	L	M
16795	ENSG00000255495		1.5	0.0045126	0.0195397	4.220	0.328	3.952	4.586	2.789	0.150	2.685	2.961
16796	ENSG00000256616		1.5	0.0001296	0.0011176	4.640	0.482	4.205	5.158	3.107	0.537	2.608	3.675
16797	ENSG00000259969		1.5	0.003283	0.015138	7.447	0.426	6.986	7.826	4.994	0.761	4.145	5.614
16798	ENSG00000260077		1.5	0.0002308	0.0017927	8.921	0.241	8.735	9.193	6.018	1.042	4.875	6.915
16799	ENSG00000261211		1.5	0.0091455	0.0338538	2.167	0.320	1.927	2.531	1.491	0.434	1.004	1.834
16800	ENSG00000271533		1.5	7.478E-06	0.0001039	10.034	0.570	9.380	10.424	6.804	1.131	6.069	8.107
16801	ENSG00000275180		1.5	0.0003536	0.0025267	21.021	1.841	18.944	22.454	13.879	1.300	12.741	15.295
16802	ENSG00000278730		1.5	5.801E-08	1.694E-06	12.986	0.936	11.962	13.797	8.611	0.439	8.170	9.049
16803	ENSG00000280152		1.5	0.0050463	0.021289	1.972	0.339	1.663	2.335	1.333	0.286	1.027	1.594
16804	ENSG00000203279		-1.4	0.0123189	0.0430773	7.910	2.451	5.682	10.536	11.578	1.660	10.478	13.488
16805	ENSG00000214776		-1.4	0.0377404	0.1022956	0.281	0.072	0.211	0.355	0.413	0.035	0.373	0.435
16806	ENSG00000226471		-1.4	0.041839	0.1106353	2.182	0.222	1.926	2.312	3.151	0.441	2.641	3.406
16807	ENSG00000227540		-1.4	0.0410866	0.1091405	6.254	1.054	5.183	7.291	8.632	0.591	7.989	9.151
16808	ENSG00000227838		-1.4	0.0262004	0.0777008	4.884	0.383	4.510	5.275	7.051	1.284	6.302	8.533
16809	ENSG00000237686		-1.4	0.0624236	0.1501595	1.527	0.380	1.094	1.801	2.129	0.201	1.907	2.300
16810	ENSG00000254910		-1.4	0.0521032	0.1310952	11.960	1.934	10.072	13.936	16.642	0.170	16.531	16.837
16811	ENSG00000256092		-1.4	0.0748938	0.1723137	1.627	0.687	0.855	2.169	2.270	0.219	2.074	2.507
16812	ENSG00000256654		-1.4	0.0246518	0.0741351	0.481	0.034	0.459	0.520	0.705	0.101	0.595	0.794
16814	ENSG00000258592		-1.4	0.0242331	0.0732013	2.629	0.480	2.342	3.183	3.901	0.866	2.975	4.691
16815	ENSG00000259924		-1.4	0.0631851	0.1516245	3.456	0.383	3.014	3.678	4.876	0.874	3.975	5.719
16816	ENSG00000260806		-1.4	0.0746689	0.1719133	2.382	0.825	1.577	3.224	3.342	0.176	3.184	3.532
16817	ENSG00000260907		-1.4	0.0950927	0.2059927	3.113	0.789	2.394	3.957	4.403	1.321	3.477	5.916
16818	ENSG00000266208		-1.4	0.066881	0.1583146	1.155	0.247	0.917	1.410	1.700	0.406	1.270	2.077
16819	ENSG00000267327		-1.4	0.0733402	0.1697507	2.598	1.006	1.570	3.581	3.839	0.917	2.814	4.582
16820	ENSG00000267939		-1.4	0.121672	0.2454482	4.223	2.457	1.754	6.668	6.253	0.324	5.902	6.541
16821	ENSG00000270108		-1.4	0.109552	0.2277631	5.101	0.828	4.282	5.938	7.172	1.957	5.627	9.372
16822	ENSG00000270441		-1.4	0.0238546	0.072353	3.103	0.516	2.544	3.561	4.518	1.149	3.825	5.844
16823	ENSG00000272221		-1.4	0.060824	0.1472119	2.986	0.275	2.815	3.303	4.288	0.130	4.148	4.406
16824	ENSG00000272758		-1.4	0.0323497	0.0915087	1.367	0.316	1.072	1.701	1.960	0.269	1.732	2.256
16825	ENSG00000272807		-1.4	0.0422904	0.111602	4.802	0.782	4.027	5.590	7.014	1.983	5.456	9.246
16826	ENSG00000272977		-1.4	0.0437922	0.1146885	0.881	0.116	0.748	0.952	1.268	0.335	1.067	1.655
16827	ENSG00000273142		-1.4	0.0122699	0.0429915	2.109	0.220	1.948	2.360	2.988	0.390	2.573	3.346
16828	ENSG00000276434		-1.4	0.0451393	0.1174704	6.013	0.879	5.225	6.962	8.652	0.395	8.197	8.911
16829	ENSG00000278238		-1.4	0.0320145	0.0908492	7.622	0.370	7.222	7.952	11.320	3.026	8.086	14.082
16830	ENSG00000278861		-1.4	0.1132406	0.2330325	3.944	0.658	3.194	4.425	5.493	0.732	4.684	6.109
16831	ENSG00000279145		-1.4	0.0176313	0.0570747	1.112	0.235	0.889	1.357	1.580	0.234	1.334	1.801
16832	ENSG00000279602		-1.4	0.0347773	0.0964877	3.214	0.156	3.045	3.353	4.583	0.339	4.262	4.938
16833	ENSG00000280046		-1.4	0.0320795	0.0909726	0.643	0.078	0.579	0.730	0.916	0.133	0.767	1.022
16834	ENSG00000217801		1.6	0.0047809	0.0204448	2.832	0.631	2.108	3.266	1.766	0.290	1.441	1.999
16835	ENSG00000223960		1.6	5.008E-08	1.497E-06	8.094	0.737	7.565	8.936	5.135	0.303	4.886	5.473
16836	ENSG00000233393		1.6	3.77E-12	3.521E-10	45.235	1.372	43.737	46.430	28.796	3.027	25.994	32.006
16837	ENSG00000234614		1.6	0.0004003	0.0028004	21.959	2.113	19.562	23.555	14.407	0.949	13.811	15.501
16838	ENSG00000242193		1.6	6.266E-05	0.0006169	2.693	0.185	2.508	2.879	1.741	0.317	1.384	1.989

	A	B	C	D	E	F	G	H	I	J	K	L	M
16840	ENSG00000250579		1.6	0.000154	0.0012859	14.606	0.826	13.793	15.445	9.570	0.442	9.084	9.949
16841	ENSG00000266970		1.6	0.0003023	0.0022231	9.351	1.065	8.208	10.315	6.104	0.045	6.056	6.144
16842	ENSG00000279267		1.6	0.0070717	0.0277373	2.457	0.659	1.697	2.870	1.528	0.364	1.111	1.782
16843	ENSG00000279673		1.6	0.0062171	0.0250416	4.679	1.784	3.503	6.732	3.068	0.562	2.472	3.587
16844	ENSG00000279882		1.6	0.0009163	0.0054322	25.341	4.049	22.248	29.923	16.569	1.887	15.326	18.741
16845	ENSG00000280594		1.6	0.0075691	0.0292945	1.934	0.345	1.604	2.292	1.259	0.104	1.153	1.359
16846	ENSG00000200090		-1.5	0.028614	0.0832243	31.427	6.565	23.877	35.793	47.292	2.845	45.492	50.572
16847	ENSG00000224592		-1.5	0.0158768	0.0528175	5.705	1.113	4.536	6.752	8.520	0.988	7.564	9.536
16848	ENSG00000231416		-1.5	0.0869499	0.1930661	6.383	1.720	4.715	8.151	9.885	2.500	8.116	12.745
16850	ENSG00000235225		-1.5	0.0459313	0.1190371	6.199	0.715	5.374	6.649	9.601	1.897	7.428	10.927
16851	ENSG00000240890		-1.5	0.0388496	0.104528	1.186	0.028	1.160	1.216	1.785	0.190	1.590	1.968
16852	ENSG00000250328		-1.5	0.0179996	0.0580968	1.410	0.266	1.153	1.684	2.184	0.513	1.672	2.697
16853	ENSG00000251432		-1.5	0.0237183	0.0720065	1.097	0.316	0.817	1.439	1.639	0.168	1.514	1.830
16854	ENSG00000251580		-1.5	0.0109848	0.0393198	8.194	1.688	6.298	9.532	12.805	2.296	11.469	15.456
16855	ENSG00000254419		-1.5	0.0648636	0.1545341	3.855	1.303	2.559	5.164	5.887	1.545	4.576	7.590
16856	ENSG00000256443		-1.5	0.0500286	0.1269906	1.214	0.168	1.048	1.383	1.833	0.241	1.623	2.096
16857	ENSG00000197813		1.7	0.0017213	0.0090582	8.831	0.261	8.643	9.129	5.177	0.584	4.798	5.849
16858	ENSG00000213062		1.7	0.0012113	0.0068551	6.775	0.222	6.645	7.032	4.009	1.268	3.090	5.455
16859	ENSG00000250508		1.7	0.004746	0.0203211	1.539	0.433	1.044	1.848	0.923	0.267	0.721	1.226
16860	ENSG00000268201		-1.5	0.0512761	0.1294031	5.475	0.853	4.835	6.443	8.146	1.950	6.777	10.379
16861	ENSG00000251602		1.7	0.0090001	0.0334251	1.733	0.101	1.621	1.814	1.051	0.322	0.686	1.295
16862	ENSG00000271971		-1.5	0.0103165	0.0374077	6.436	2.418	5.018	9.228	10.071	1.496	9.073	11.791
16863	ENSG00000272764		-1.5	0.0656093	0.1558716	7.687	1.608	5.938	9.100	11.560	0.463	11.254	12.093
16864	ENSG00000273149		-1.5	0.0275316	0.0806726	15.442	3.294	12.669	19.083	23.638	8.004	17.597	32.716
16865	ENSG00000273311		-1.5	0.0224699	0.069009	1.539	0.267	1.267	1.802	2.384	0.734	1.543	2.896
16866	ENSG00000254258		1.7	0.0031706	0.0147399	4.257	0.601	3.592	4.763	2.525	0.153	2.401	2.696
16867	ENSG00000279427		-1.5	0.0328922	0.0927187	3.444	1.170	2.100	4.239	5.462	0.826	4.894	6.410
16868	ENSG00000279861		-1.5	0.0244309	0.0736542	1.574	0.072	1.504	1.649	2.462	0.260	2.244	2.749
16869	ENSG00000272419		1.7	0.0003818	0.0026917	1.263	0.155	1.111	1.420	0.777	0.106	0.657	0.858
16870	ENSG00000279312		1.7	0.0007585	0.0046597	3.144	0.344	2.861	3.527	1.867	0.225	1.612	2.037
16871	ENSG00000284294		1.7	5.8E-09	2.33E-07	79.298	12.315	66.182	90.615	46.955	1.215	45.997	48.322
16872	ENSG00000225850		-1.6	0.0363685	0.099676	2.574	0.726	1.851	3.303	4.186	1.525	2.488	5.440
16873	ENSG00000231663		-1.6	0.0154717	0.0516834	4.981	1.044	3.852	5.910	8.100	1.575	6.675	9.792
16874	ENSG00000248583		-1.6	0.0493669	0.1258202	2.961	0.629	2.239	3.391	4.718	0.733	3.931	5.380
16875	ENSG00000255306		-1.6	0.0150832	0.0506557	3.609	0.702	2.799	4.032	5.815	1.463	4.444	7.355
16876	ENSG00000258727		-1.6	0.0197244	0.0623082	0.792	0.143	0.637	0.919	1.263	0.071	1.197	1.338
16877	ENSG00000263818		-1.6	0.0248552	0.0746805	0.521	0.087	0.429	0.602	0.839	0.070	0.760	0.894
16878	ENSG00000224789		1.8	0.0054523	0.0225853	6.528	1.207	5.135	7.255	3.762	1.037	2.612	4.624
16879	ENSG00000250993		1.8	0.0015459	0.0083025	8.331	1.646	6.910	10.135	4.741	0.616	4.062	5.264
16880	ENSG00000253507		1.8	4.01E-12	3.662E-10	78.159	10.001	70.830	89.552	44.402	2.252	41.881	46.216
16881	ENSG00000255666		1.8	0.0020104	0.0102016	135.283	37.410	110.836	178.349	78.196	10.706	66.190	86.752
16882	ENSG00000273796		-1.6	0.0438242	0.1147367	3.429	1.042	2.390	4.474	5.722	1.647	4.152	7.437
16883	ENSG00000257043		1.8	0.0004244	0.0029282	14.253	2.293	11.695	16.123	7.862	2.624	4.849	9.648

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16884	ENSG00000267102		1.8	0.003038	0.0022324	12.284	0.378	12.017	12.716	7.175	2.576	4.458	9.582
16885	ENSG00000267745		1.8	0.0039402	0.0175695	3.628	0.693	3.167	4.425	2.106	0.084	2.050	2.203
16886	ENSG00000260593		1.9	0.0047062	0.0201816	7.429	1.610	6.088	9.214	3.997	0.045	3.948	4.036
16887	ENSG00000272669		1.9	0.0068103	0.0268743	6.936	1.295	6.069	8.425	3.828	1.934	1.911	5.778
16888	ENSG00000272931		1.9	0.0059716	0.0242969	5.331	1.866	3.187	6.590	2.839	0.559	2.250	3.362
16889	ENSG00000272054		-1.7	0.0393746	0.1056716	0.468	0.220	0.272	0.705	0.830	0.401	0.368	1.069
16890	ENSG00000283877		-1.8	0.0127255	0.0442142	5.596	0.994	4.608	6.596	10.314	3.497	8.005	14.337
16891	ENSG00000257497		-3.2	1.565E-06	2.754E-05	1.100	0.265	0.798	1.295	3.678	1.370	2.096	4.504
16892	ENSG00000274627		-2.6	0.000139	0.0011793	0.237	0.087	0.137	0.300	0.630	0.112	0.516	0.739
16893	ENSG00000228613		-2.3	9.477E-05	0.0008654	3.273	2.035	1.504	5.497	7.593	1.173	6.367	8.705
16894	ENSG00000228863		-2.3	0.0006857	0.0043047	0.358	0.075	0.276	0.424	0.832	0.085	0.782	0.929
16895	ENSG00000234779		-2.2	0.0014067	0.007687	3.693	2.114	1.380	5.523	8.173	0.839	7.409	9.071
16896	ENSG00000279744		-2.2	0.000468	0.0031687	1.223	0.271	0.982	1.517	2.724	0.265	2.521	3.024
16897	ENSG00000279765		-2.1	0.0004734	0.0032001	0.532	0.106	0.409	0.593	1.128	0.245	0.886	1.375
16898	ENSG00000280129		-2.1	0.0017717	0.0092428	1.156	0.465	0.727	1.650	2.475	0.374	2.054	2.771
16899	ENSG00000256542		-2	0.002307	0.0113789	0.649	0.291	0.343	0.923	1.311	0.175	1.132	1.482
16900	ENSG00000261104		-2	0.0002001	0.001598	0.769	0.162	0.632	0.948	1.615	0.323	1.423	1.989
16901	ENSG00000203392		2	0.0018786	0.0096841	1.992	0.160	1.824	2.143	1.022	0.583	0.454	1.620
16902	ENSG00000261655		2	7.281E-06	0.0001016	4.252	0.491	3.685	4.554	2.164	0.046	2.125	2.215
16903	ENSG00000230039		2.1	0.0015519	0.0083218	3.377	0.996	2.301	4.267	1.635	0.265	1.415	1.929
16904	ENSG00000254602		2.1	5.75E-11	3.968E-09	13.234	0.684	12.758	14.018	6.555	1.334	5.748	8.095
16905	ENSG00000273489		2.1	0.0004045	0.0028141	1.547	0.475	1.038	1.980	0.753	0.147	0.666	0.922
16906	ENSG00000282024		2.1	0.001616	0.0086054	6.981	2.874	5.042	10.284	3.446	1.234	2.472	4.833
16907	ENSG00000251615		2.3	0.0005903	0.0038309	1.094	0.178	0.917	1.273	0.488	0.113	0.360	0.574
16908	ENSG00000253348		2.3	6.084E-07	1.267E-05	13.874	2.907	12.175	17.231	6.147	1.296	4.672	7.100
16910	ENSG00000230650		2.5	2.118E-05	0.0002494	1.953	0.522	1.627	2.555	0.798	0.285	0.471	0.991
16911	ENSG00000224163		2.7	0.0020707	0.0104321	3.428	0.767	2.855	4.299	1.267	0.179	1.076	1.430
16912	ENSG00000260196		3.1	7.864E-07	1.561E-05	1.816	0.323	1.536	2.170	0.588	0.196	0.434	0.808
16913	ENSG00000206532		3.3	1.09E-11	9.141E-10	10.650	0.506	10.081	11.049	3.342	1.137	2.621	4.653
16914	ENSG00000280143		4	1.71E-16	4.75E-14	8.271	1.029	7.427	9.418	2.106	0.439	1.764	2.601
16915	ENSG00000275216		4.1	7.32E-14	1.08E-11	4.394	0.474	4.059	4.937	1.088	0.222	0.842	1.274

	A	B	C	D	E
1	Hallmark Gene Set	Number	Direction	P Value	FDR
2	HALLMARK_CHOLESTEROL_HOMEOSTASIS	70	Up	5.61E-37	2.81E-35
3	HALLMARK_MTORC1_SIGNALING	195	Up	2.28E-17	5.71E-16
4	HALLMARK_ANDROGEN_RESPONSE	93	Up	1.04364E-09	1.73939E-08
5	HALLMARK_TNFA_SIGNALING_VIA_NFKB	166	Up	6.82398E-07	8.52997E-06
6	HALLMARK_COMPLEMENT	143	Up	6.3818E-06	5.31817E-05
7	HALLMARK_COAGULATION	83	Up	6.09935E-06	5.31817E-05
8	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	167	Up	6.46274E-05	0.000461624
9	HALLMARK_FATTY_ACID_METABOLISM	131	Up	0.000106798	0.00066749
10	HALLMARK_XENOBIOTIC_METABOLISM	139	Up	0.000160687	0.000892706
11	HALLMARK_IL6_JAK_STAT3_SIGNALING	55	Up	0.000309534	0.001547672
12	HALLMARK_UNFOLDED_PROTEIN_RESPONSE	112	Up	0.000552341	0.002354975
13	HALLMARK_BILE_ACID_METABOLISM	82	Up	0.000565194	0.002354975
14	HALLMARK_HYPOXIA	178	Up	0.000891192	0.003155161
15	HALLMARK_MYOGENESIS	156	Up	0.000946548	0.003155161
16	HALLMARK_APOPTOSIS	136	Up	0.000829396	0.003155161
17	HALLMARK_IL2_STAT5_SIGNALING	159	Up	0.001071152	0.003347351
18	HALLMARK_E2F_TARGETS	198	Down	0.002017284	0.005933188
19	HALLMARK_UV_RESPONSE_DN	138	Up	0.002682622	0.007451728
20	HALLMARK_INFLAMMATORY_RESPONSE	125	Up	0.003912906	0.010297122
21	HALLMARK_REACTIVE_OXIGEN_SPECIES_PATHWAY	47	Up	0.004890471	0.012226179
22	HALLMARK_G2M_CHECKPOINT	195	Down	0.007188974	0.017116605
23	HALLMARK_PI3K_AKT_MTOR_SIGNALING	96	Up	0.015599511	0.035453435
24	HALLMARK_ESTROGEN_RESPONSE_EARLY	181	Up	0.018371222	0.038273378
25	HALLMARK_INTERFERON_GAMMA_RESPONSE	143	Up	0.017912376	0.038273378
26	HALLMARK_PANCREAS_BETA_CELLS	23	Down	0.019907628	0.039815256
27	HALLMARK_MITOTIC_SPINDLE	200	Down	0.029684065	0.057084741
28	HALLMARK_MYC_TARGETS_V1	200	Down	0.032555803	0.060288524
29	HALLMARK_TGF_BETA_SIGNALING	54	Up	0.033777352	0.060316699

	A	B	C	D	E
30	HALLMARK_APICAL_SURFACE	34	Up	0.038153759	0.065782343
31	HALLMARK_ANGIOGENESIS	25	Up	0.042163772	0.070272953
32	HALLMARK_ESTROGEN_RESPONSE_LATE	170	Up	0.043889738	0.0707899
33	HALLMARK_HEME_METABOLISM	169	Up	0.052323591	0.081755611
34	HALLMARK_ADIPOGENESIS	181	Up	0.059267225	0.089798826
35	HALLMARK_PEROXISOME	93	Up	0.063768144	0.093776683
36	HALLMARK_INTERFERON_ALPHA_RESPONSE	72	Up	0.102270636	0.146100908
37	HALLMARK_P53_PATHWAY	183	Up	0.109174653	0.151631463
38	HALLMARK_APICAL_JUNCTION	175	Up	0.155143859	0.209653864
39	HALLMARK_HEDGEHOG_SIGNALING	33	Up	0.16048218	0.211160763
40	HALLMARK_DNA_REPAIR	147	Down	0.193044873	0.241306091
41	HALLMARK_WNT_BETA_CATENIN_SIGNALING	38	Down	0.192257379	0.241306091

	A	B	C	D	E
1	C2 Gene Set	Number of Ge	Direction of ch	P Value	FDR
2	HORTON_SREBF_TARGETS	25	Up	6.38E-61	3.01E-57
3	SCHMIDT_POR_TARGETS_IN_LIMB_BUD_UP	24	Up	5.20E-59	1.23E-55
4	REACTOME_CHOLESTEROL_BIOSYNTHESIS	21	Up	7.2355E-58	1.13959E-54
5	KRIGE_AMINO_ACID_DEPRIVATION	26	Up	1.57613E-48	1.86181E-45
6	PACHER_TARGETS_OF_IGF1_AND_IGF2_UP	30	Up	1.02022E-38	9.64104E-36
7	WENG_POR_TARGETS_GLOBAL_UP	14	Up	3.85223E-37	3.03363E-34
8	KEGG_STEROID_BIOSYNTHESIS	16	Up	9.96121E-32	6.72382E-29
9	WENG_POR_TARGETS_LIVER_UP	33	Up	4.11197E-28	2.42863E-25
10	KEGG_TERPENOID_BACKBONE_BIOSYNTHESIS	13	Up	1.14774E-25	6.02563E-23
11	ZHAN_MULTIPLE_MYELOMA_CD1_VS_CD2_UP	54	Up	1.73716E-22	8.20808E-20
12	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPH OLIPIDS_RED_UP	16	Up	6.83672E-22	2.93668E-19
13	HELLER_SILENCED_BY_METHYLATION_DN	89	Up	1.96866E-19	7.75161E-17
14	KOBAYASHI_EGFR_SIGNALING_6HR_DN	17	Up	4.04494E-18	1.47018E-15
15	PODAR_RESPONSE_TO_ADAPHOSTIN_UP	129	Up	1.46992E-17	4.96097E-15
16	BURTON_ADIPOGENESIS_10	28	Up	1.81458E-17	5.71594E-15
17	ZHAN_MULTIPLE_MYELOMA_CD1_UP	38	Up	2.38352E-16	6.8334E-14
18	LE_EGR2_TARGETS_DN	89	Up	2.45858E-16	6.8334E-14
19	GROSS_HYPOXIA_VIA_ELK3_ONLY_UP	27	Up	3.10059E-16	8.13904E-14
20	SHAFFER_IRF4_TARGETS_IN_ACTIVATED_B_LYM PHOCYTE	79	Up	3.0693E-15	7.63285E-13
21	REACTOME_AMINO_ACID_TRANSPORT_ACROSS_ THE_PLASMA_MEMBRANE	23	Up	3.9533E-15	9.33966E-13
22	PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_1	39	Up	1.93767E-14	4.35976E-12
23	KIM_WT1_TARGETS_UP	197	Up	2.88037E-13	6.18625E-11
24	PODAR_RESPONSE_TO_ADAPHOSTIN_DN	16	Up	8.843E-13	1.81666E-10
25	BURTON_ADIPOGENESIS_PEAK_AT_24HR	36	Down	1.41298E-12	2.78181E-10
26	SARTIPY_NORMAL_AT_INSULIN_RESISTANCE_UP	32	Up	2.95247E-12	5.58016E-10
27	SUH_COEXPRESSED_WITH_ID1_AND_ID2_UP	18	Up	3.40899E-12	6.19518E-10

	A	B	C	D	E
28	GAUSSMANN_MLL_AF4_FUSION_TARGETS_C_D N	14	Up	4.69467E-12	8.21568E-10
29	HUANG_FOXA2_TARGETS_UP	42	Up	5.05269E-12	8.52642E-10
30	MAHADEVAN_RESPONSE_TO_MP470_DN	18	Up	5.81905E-12	9.48104E-10
31	AMUNDSON_GAMMA_RADIATION_RESPONSE	37	Down	1.31841E-11	2.07649E-09
32	NAGASHIMA_NRG1_SIGNALING_UP	161	Up	1.45397E-11	2.21614E-09
33	PASINI_SUZ12_TARGETS_DN	299	Up	1.66546E-11	2.45915E-09
34	REACTOME_RESPONSE_TO_ELEVATED_PLATELET _CYTOSOLIC_CA2_	54	Up	3.00854E-11	4.30769E-09
35	RAMJAUN_APOPTOSIS_BY_TGFB1_VIA_MAPK1_D N	8	Up	3.92998E-11	5.46152E-09
36	AMIT_EGF_RESPONSE_60_MCF10A	32	Up	5.64231E-11	7.61712E-09
37	KAN_RESPONSE_TO_ARSENIC_TRIOXIDE	104	Up	6.34126E-11	8.32291E-09
38	PRAMOONJAGO_SOX4_TARGETS_UP	51	Up	7.1317E-11	9.10737E-09
39	GUO_TARGETS_OF_IRS1_AND_IRS2	88	Up	1.48055E-10	1.84095E-08
40	NAGASHIMA_EGF_SIGNALING_UP	53	Up	1.70202E-10	2.06206E-08
41	ZWANG_EGF_PERSISTENTLY_UP	27	Up	2.58677E-10	3.05563E-08
42	FARMER_BREAST_CANCER_CLUSTER_2	33	Down	2.6826E-10	3.09154E-08
43	GROSS_HYPOXIA_VIA_ELK3_DN	129	Up	3.04E-10	3.42E-08
44	OXFORD_RALA_TARGETS_UP	7	Up	4.70E-10	5.17E-08
45	FINETTI_BREAST_CANCER_KINOME_RED	16	Down	4.98603E-10	5.32838E-08
46	TOOKER_GEMCITABINE_RESISTANCE_DN	119	Up	5.07465E-10	5.32838E-08
47	PID_AURORA_B_PATHWAY	38	Down	6.08431E-10	6.24964E-08
48	IGARASHI_ATF4_TARGETS_DN	79	Up	6.24627E-10	6.27949E-08
49	PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_5	10	Up	6.51367E-10	6.41189E-08
50	REACTOME_AMINO_ACID_AND_OLIGOPEPTIDE_S LC_TRANSPORTERS	36	Up	6.92076E-10	6.67359E-08
51	AMIT_EGF_RESPONSE_240_MCF10A	19	Up	9.39273E-10	8.87613E-08
52	CHEN_LVAD_SUPPORT_OF_FAILING_HEART_UP	88	Up	1.23144E-09	1.14089E-07
53	VISALA_AGING_LYMPHOCYTE_DN	14	Up	1.27831E-09	1.16154E-07
54	GERY_CEBP_TARGETS	97	Up	1.36362E-09	1.21568E-07

	A	B	C	D	E
55	NOJIMA_SFRP2_TARGETS_UP	25	Up	1.71756E-09	1.50286E-07
56	LINDSTEDT_DENDRITIC_CELL_MATURATION_A	38	Up	1.9225E-09	1.6516E-07
57	CHO_NR4A1_TARGETS	24	Up	2.54016E-09	2.14326E-07
58	REACTOME_FATTY_ACYL_COA_BIOSYNTHESIS	16	Up	3.23789E-09	2.6579E-07
59	SMIRNOV_CIRCULATING_ENDOTHELIOCYTES_IN_CANCER_UP	124	Up	3.26261E-09	2.6579E-07
60	DIRMEIER_LMP1_RESPONSE_LATE_UP	51	Up	3.49431E-09	2.79841E-07
61	WILCOX_RESPONSE_TO_PROGESTERONE_UP	125	Up	5.33594E-09	4.20205E-07
62	TERAMOTO_OPN_TARGETS_CLUSTER_7	16	Up	6.73056E-09	5.21342E-07
63	KRIEG_HYPOXIA_VIA_KDM3A	44	Up	7.3258E-09	5.58297E-07
64	KEGG_BIOSYNTHESIS_OF_UNSATURATED_FATTY_ACIDS	21	Up	8.15427E-09	6.11571E-07
65	KEGG_BUTANOATE_METABOLISM	25	Up	1.00141E-08	7.39324E-07
66	BRUNO_HEMATOPOIESIS	53	Up	1.01711E-08	7.39361E-07
67	HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_DN	226	Up	1.58445E-08	1.13432E-06
68	GAJATE_RESPONSE_TO TRABECTEDIN_UP	52	Up	1.65326E-08	1.16592E-06
69	ADDYA_ERYTHROID_DIFFERENTIATION_BY_HEMIN	64	Up	1.83301E-08	1.27368E-06
70	DAUER_STAT3_TARGETS_UP	42	Up	2.11706E-08	1.44972E-06
71	JISON_SICKLE_CELL_DISEASE_UP	148	Up	2.46797E-08	1.66588E-06
72	CONCANNON_APOPTOSIS_BY_EPOXOMICIN_UP	224	Up	2.74213E-08	1.82487E-06
73	KONG_E2F3_TARGETS	89	Down	3.16238E-08	2.07531E-06
74	PENG_GLUCOSE_DEPRIVATION_UP	41	Up	3.74929E-08	2.42677E-06
75	PLASARI_TGFB1_SIGNALING_VIA_NFIC_1HR_UP	24	Up	4.02483E-08	2.56991E-06
76	YAGI_AML_FAB_MARKERS	157	Up	4.47754E-08	2.78494E-06
77	REACTOME_SYNTHESIS_OF_VERY_LONG_CHAIN_FATTY_ACYL_COAS	12	Up	4.47948E-08	2.78494E-06
78	AMIT_EGF_RESPONSE_60_HELA	42	Up	4.77791E-08	2.9319E-06
79	ZHAN_MULTIPLE_MYELOMA_PR_UP	42	Down	6.45945E-08	3.91294E-06
80	BLUM_RESPONSE_TO_SALIRASIB_UP	235	Up	6.99662E-08	4.18468E-06
81	BIOCARTA_PLATELETAPP_PATHWAY	10	Up	7.27859E-08	4.26417E-06

	A	B	C	D	E
82	KANG_AR_TARGETS_DN	14	Up	7.31E-08	4.26417E-06
83	LY_AGING_MIDDLE_DN	15	Down	7.42059E-08	4.27589E-06
84	RUTELLA_RESPONSE_TO_HGF_UP	348	Up	8.54E-08	4.86E-06
85	PLASARI_TGFB1_TARGETS_1HR_UP	32	Up	8.94E-08	4.98E-06
86	COULOUARN_TEMPORAL_TGFB1_SIGNATURE_UP	100	Up	8.96145E-08	4.98151E-06
87	GALINDO_IMMUNE_RESPONSE_TO_ENTEROTOXIN	69	Up	1.1166E-07	6.12827E-06
88	AMIT_DELAYED_EARLY_GENES	18	Up	1.12838E-07	6.12827E-06
89	TERAMOTO_OPN_TARGETS_CLUSTER_1	11	Up	1.14723E-07	6.15986E-06
90	REACTOME_CYTOSOLIC_TRNA_AMINOACYLATION	24	Up	1.27027E-07	6.74383E-06
91	JI_RESPONSE_TO_FSH_UP	66	Up	1.33191E-07	6.92397E-06
92	HU_GENOTOXIC_DAMAGE_24HR	29	Up	1.3335E-07	6.92397E-06
93	KEGG_PPAR_SIGNALING_PATHWAY	44	Up	1.44929E-07	7.44334E-06
94	AMUNDSON_RESPONSE_TO_ARSENITE	199	Up	1.72756E-07	8.77711E-06
95	REICHERT_MITOSIS_LIN9_TARGETS	28	Down	1.75235E-07	8.80837E-06
96	CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_DN	383	Up	1.96643E-07	9.78038E-06
97	TIAN_TNF_SIGNALING_NOT_VIA_NFKB	20	Up	2.07905E-07	1.02328E-05
98	WIERENGA_STAT5A_TARGETS_GROUP2	39	Up	2.29519E-07	1.11802E-05
99	SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_DN	12	Up	2.6411E-07	1.27339E-05
100	FERRARI_RESPONSE_TO_FENRETINIDE_UP	18	Up	2.84909E-07	1.3547E-05
101	REACTOME_ACTIVATION_OF_CHAPERONE_GENES_BY_ATF6_ALPHA	9	Up	2.86708E-07	1.3547E-05
102	GREENBAUM_E2A_TARGETS_UP	31	Down	2.98738E-07	1.38523E-05
103	JEON_SMAD6_TARGETS_UP	18	Up	2.99034E-07	1.38523E-05
104	REACTOME_METABOLISM_OF_LIPIDS_AND_LIPOPROTEINS	377	Up	3.06897E-07	1.40785E-05
105	NELSON_RESPONSE_TO_ANDROGEN_UP	77	Up	3.42224E-07	1.55481E-05

	A	B	C	D	E
106	BERENJENO_TRANSFORMED_BY_RHOA_REVERSI BLY_DN	28	Up	3.92745E-07	1.76735E-05
107	APPEL_IMATINIB_RESPONSE	25	Up	3.97812E-07	1.77327E-05
108	REACTOME_AMINO_ACID_SYNTHESIS_AND_INTE RCONVERSION_TRANSAMINATION	15	Up	4.20749E-07	1.85798E-05
109	DANG_MYC_TARGETS_DN	30	Up	4.2843E-07	1.86135E-05
110	REACTOME_ACTIVATION_OF_CHAPERONES_BY_A TF6_ALPHA	11	Up	4.29392E-07	1.86135E-05
111	ZHANG_GATA6_TARGETS_DN	54	Up	4.52299E-07	1.94283E-05
112	GERHOLD_ADIPOGENESIS_UP	39	Up	5.04745E-07	2.14858E-05
113	PID_PLK1_PATHWAY	46	Down	5.34081E-07	2.25316E-05
114	BURTON_ADIPOGENESIS_8	83	Up	5.5774E-07	2.33214E-05
115	REACTOME_KINESINS	23	Down	5.75141E-07	2.38381E-05
116	KANG_DOXORUBICIN_RESISTANCE_UP	54	Down	6.42457E-07	2.63966E-05
117	HUANG_DASATINIB_RESISTANCE_UP	74	Up	6.70855E-07	2.73258E-05
118	DEMAGALHAES_AGING_UP	40	Up	6.92348E-07	2.79602E-05
119	PARK_TRETINOIN_RESPONSE_AND_RARA_PLZF_ FUSION	14	Up	8.39251E-07	3.33934E-05
120	REACTOME_CELL_EXTRACELLULAR_MATRIX_INTE RACTIONS	13	Up	8.41018E-07	3.33934E-05
121	PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_3	18	Up	8.52675E-07	3.35741E-05
122	KERLEY_RESPONSE_TO_CISPLATIN_DN	5	Up	8.7388E-07	3.41246E-05
123	BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_ DN	46	Up	9.59386E-07	3.71469E-05
124	AMIT_SERUM_RESPONSE_60_MCF10A	51	Up	9.67E-07	3.71469E-05
125	REACTOME_IRON_UPTAKE_AND_TRANSPORT	31	Up	9.99E-07	3.78E-05
126	FINAK_BREAST_CANCER_SDPP_SIGNATURE	11	Up	9.99E-07	3.78E-05
127	WANG_RESPONSE_TO_FORSKOLIN_UP	20	Up	1.0803E-06	4.05111E-05
128	SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM3	52	Up	1.10103E-06	4.09634E-05
129	SENESE_HDAC1_AND_HDAC2_TARGETS_DN	190	Up	1.1842E-06	4.37135E-05

	A	B	C	D	E
130	HOFFMANN_PRE_BI_TO_LARGE_PRE_BII_LYMPH OCYTE_DN	59	Up	1.22139E-06	4.47371E-05
131	KEGG_LYSOSOME	108	Up	1.27597E-06	4.63765E-05
132	GUENTHER_GROWTH_SPHERICAL_VS_ADHERENT _DN	23	Up	1.45477E-06	5.24715E-05
133	HELLER_HDAC_TARGETS_DN	238	Up	1.49408E-06	5.34811E-05
134	MARCHINI TRABECTEDIN_RESISTANCE_DN	47	Up	1.63386E-06	5.8045E-05
135	SHEPARD_CRUSH_AND_BURN_MUTANT_DN	161	Down	1.66415E-06	5.86799E-05
136	BOQUEST_STEM_CELL_CULTURED_VS_FRESH_UP	335	Up	1.71942E-06	6.01798E-05
137	DIRMEIER_LMP1_RESPONSE_EARLY	53	Up	1.83281E-06	6.36767E-05
138	BURTON_ADIPOGENESIS_PEAK_AT_OHR	53	Up	1.92519E-06	6.63981E-05
139	SHEPARD_BMYB_TARGETS	63	Down	2.15357E-06	7.37365E-05
140	HENDRICKS_SMARCA4_TARGETS_UP	45	Up	2.1779E-06	7.40331E-05
141	REACTOME_SMOOTH_MUSCLE_CONTRACTION	23	Up	2.2347E-06	7.5421E-05
142	YAGUE_PRETUMOR_DRUG_RESISTANCE_DN	13	Up	2.57892E-06	8.64213E-05
143	WANG_METHYLATED_IN_BREAST_CANCER	33	Up	2.73554E-06	9.1024E-05
144	TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION _ERYTHROCYTE_UP	120	Up	2.77123E-06	9.10417E-05
145	PETROVA_PROX1_TARGETS_DN	54	Up	2.7746E-06	9.10417E-05
146	BIOCARTA_FIBRINOLYSIS_PATHWAY	5	Up	3.10565E-06	0.000101201
147	VALK_AML_CLUSTER_11	30	Up	3.25419E-06	0.000105047
148	PHONG_TNF_TARGETS_UP	54	Up	3.26813E-06	0.000105047
149	REN_ALVEOLAR_RHABDOMYOSARCOMA_DN	395	Up	3.92915E-06	0.000125441
150	DANG_REGULATED_BY_MYC_DN	220	Up	4.01295E-06	0.000127256
151	RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_UP	290	Up	4.04414E-06	0.000127391
152	IZADPANAHA_STEM_CELL_ADIPOSE_VS_BONE_UP	104	Up	4.28295E-06	0.000133465
153	MCLACHLAN_DENTAL_CARIES_UP	117	Up	4.31597E-06	0.000133465
154	SINGH_NFE2L2_TARGETS	15	Up	4.32172E-06	0.000133465
155	SASSON_RESPONSE_TO_GONADOTROPHINS_DN	82	Up	4.40207E-06	0.000135063

	A	B	C	D	E
156	TOMLINS_PROSTATE_CANCER_DN	36	Up	5.19989E-06	0.000158513
157	CHANG_CORE_SERUM_RESPONSE_DN	195	Up	5.34631E-06	0.000161639
158	KEGG_VALINE_LEUCINE_AND_ISOLEUCINE_DEGRADATION	42	Up	5.37086E-06	0.000161639
159	CHANG_IMMORTALIZED_BY_HP31_DN	42	Up	5.81961E-06	0.000174036
160	PID_ATF2_PATHWAY	48	Up	5.92641E-06	0.000176115
161	GLINSKY_CANCER_DEATH_UP	7	Down	5.97631E-06	0.000176488
162	KUMAMOTO_RESPONSE_TO_NUTLIN_3A_DN	10	Down	6.9825E-06	0.000203847
163	LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_UP	175	Up	6.98902E-06	0.000203847
164	RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_UP	331	Up	7.22654E-06	0.000209481
165	TSAI_DNAJB4_TARGETS_DN	6	Up	7.90976E-06	0.000227888
166	SHAFFER_IRF4_TARGETS_IN_PLASMA_CELL_VS_MATURE_B_LYMPHOCYTE	62	Up	8.25E-06	2.36E-04
167	DAVICIONI_TARGETS_OF_PAX_FOXO1_FUSIONS_UP	234	Up	8.63E-06	2.46E-04
168	PARK_OSTEOBLAST_DIFFERENTIATION_BY_PHENYLAMIL_UP	9	Up	9.84689E-06	0.000278602
169	KONDO_HYPOXIA	3	Up	1.03067E-05	0.000289877
170	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_TURQUOISE_UP	73	Up	1.0607E-05	0.000296555
171	WHITFIELD_CELL_CYCLE_LITERATURE	43	Down	1.08311E-05	0.000301041
172	POS_HISTAMINE_RESPONSE_NETWORK	27	Up	1.19367E-05	0.00032807
173	REACTOME_TRANSPORT_OF_INORGANIC_CATIONS_ANIONS_AND_AMINO_ACIDS_OLIGOPEPTIDES	66	Up	1.19424E-05	0.00032807
174	RORIE_TARGETS_OF_EWSR1_FLI1_FUSION_UP	25	Up	1.31102E-05	0.000356632
175	UEDA_PERIPHERAL_CLOCK	156	Up	1.31331E-05	0.000356632
176	CASORELLI_APL_SECONDARY_VS_DE_NOVO_UP	34	Up	1.34594E-05	0.000363404
177	ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER	138	Down	1.44003E-05	0.000386598
178	PLASARI_TGFB1_TARGETS_10HR_UP	169	Up	1.45455E-05	0.00038829

	A	B	C	D	E
179	LEONARD_HYPOXIA	45	Up	1.47837E-05	0.000392432
180	BOYALT_LIVER_CANCER_SUBCLASS_G56_DN	16	Up	1.65487E-05	0.000436829
181	QI_HYPOXIA	134	Up	1.72632E-05	0.00045316
182	NAKAMURA_ADIPOGENESIS_LATE_DN	35	Up	1.76649E-05	0.000461141
183	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_21	4	Up	1.8217E-05	0.000471032
184	XU_HGF_SIGNALING_NOT_VIA_AKT1_48HR_UP	31	Up	1.82432E-05	0.000471032
185	GAUSSMANN_MLL_AF4_FUSION_TARGETS_F_D N	27	Up	1.86112E-05	0.000475923
186	YAMASHITA_LIVER_CANCER_STEM_CELL_DN	39	Up	1.8634E-05	0.000475923
187	REACTOME_BASIGIN_INTERACTIONS	20	Up	1.9198E-05	0.000487692
188	TIEN_INTESTINE_PROBIOTICS_24HR_DN	202	Up	1.97329E-05	0.0004986
189	DELYS_THYROID_CANCER_UP	343	Up	1.98509E-05	0.000498912
190	SUNG_METASTASIS_STROMA_UP	103	Up	1.99794E-05	0.000499484
191	CEBALLOS_TARGETS_OF_TP53_AND_MYC_UP	19	Up	2.03894E-05	0.000505954
192	PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA UP	155	Up	2.04523E-05	0.000505954
193	SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM2	130	Up	2.06246E-05	0.000506943
194	MARZEC_IL2_SIGNALING_UP	89	Up	2.07777E-05	0.000506943
195	YAO_TEMPORAL_RESPONSE_TO_PROGESTERON E_CLUSTER_5	21	Up	2.09524E-05	0.000506943
196	WANG_RESPONSE_TO_ANDROGEN_UP	26	Up	2.09875E-05	0.000506943
197	MAHADEVAN_RESPONSE_TO_MP470_UP	8	Up	2.10287E-05	0.000506943
198	THEILGAARD_NEUTROPHIL_AT_SKIN_WOUND_U P	62	Up	2.11717E-05	0.000507799
199	REACTOME_ETHANOL_OXIDATION	4	Up	2.14238E-05	0.00051125
200	CUI_GLUCOSE_DEPRIVATION	53	Up	2.30108E-05	0.000546361
201	NAKAMURA_ADIPOGENESIS_LATE_UP	88	Up	2.41895E-05	0.000569968
202	GAUTSCHI_SRC_SIGNALING	8	Up	2.42463E-05	0.000569968
203	REACTOME_TRIGLYCERIDE_BIOSYNTHESIS	35	Up	2.45685E-05	0.000572942
204	BORLAK_LIVER_CANCER_EGF_UP	48	Up	2.46153E-05	0.000572942
205	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP	149	Down	2.56606E-05	0.000592089

	A	B	C	D	E
206	FOURNIER_ACINAR_DEVELOPMENT_EARLY_DN	6	Up	2.56885E-05	0.000592089
207	NAKAMURA_ADIPOGENESIS_EARLY_DN	32	Up	2.67E-05	6.13E-04
208	ONDER_CDH1_TARGETS_2_UP	225	Up	2.96E-05	6.74E-04
209	GAVIN_FOXP3_TARGETS_CLUSTER_P6	79	Down	2.96792E-05	0.000674203
210	ZHANG_ANTIVIRAL_RESPONSE_TO_RIBAVIRIN_D N	38	Up	3.03432E-05	0.000685989
211	TSENG_IRS1_TARGETS_UP	96	Up	3.17676E-05	0.000714772
212	APRELIKOVA_BRCA1_TARGETS	48	Up	3.4042E-05	0.000762315
213	CUI_TCF21_TARGETS_DN	24	Up	3.4872E-05	0.000777217
214	UZONYI_RESPONSE_TO_LEUKOTRIENE_AND_THR OMBIN	29	Up	3.53743E-05	0.000784711
215	SASSON_FSH_RESPONSE	9	Up	3.62155E-05	0.000799618
216	HASINA_NOL7_TARGETS_UP	13	Up	3.71403E-05	0.000816223
217	NEWMAN_ERCC6_TARGETS_UP	17	Up	3.75298E-05	0.000820965
218	ABE_VEGFA_TARGETS_2HR	25	Up	3.79987E-05	0.000827392
219	KHETCHOUMIAN_TRIM24_TARGETS_UP	42	Up	4.13821E-05	0.000895142
220	KANG_FLUOROURACIL_RESISTANCE_DN	15	Up	4.16593E-05	0.000895142
221	AMIT_EGF_RESPONSE_240_HELA	55	Up	4.16785E-05	0.000895142
222	CHARAFE_BREAST_CANCER_LUMINAL_VS_MESE NCHYMAL_DN	430	Up	4.20486E-05	0.000899004
223	LU_IL4_SIGNALING	67	Up	4.43118E-05	0.000943122
224	MCDOWELL_ACUTE_LUNG_INJURY_UP	35	Up	4.51077E-05	0.000955756
225	HOSHIDA_LIVER_CANCER_SUBCLASS_S1	193	Up	4.5583E-05	0.000961517
226	CROMER_TUMORIGENESIS_UP	43	Up	4.80392E-05	0.001005033
227	PLASARI_TGFB1_SIGNALING_VIA_NFIC_10HR_DN	22	Up	4.80714E-05	0.001005033
228	PENG_LEUCINE_DEPRIVATION_UP	121	Up	4.89516E-05	0.001018927
229	HELLEBREKERS_SILENCED_DURING_TUMOR_ANG IOGENESIS	72	Up	4.95677E-05	0.001025948
230	HU_GENOTOXIC_DAMAGE_4HR	33	Down	4.97232E-05	0.001025948
231	YAO_TEMPORAL_RESPONSE_TO_PROGESTERON E_CLUSTER_4	11	Up	5.15794E-05	0.00105962

	A	B	C	D	E
232	COLIN_PILOCYTIC_ASTROCYTOMA_VS_GLIOBLASTOMA_DN	24	Up	5.59871E-05	0.001145192
233	CHICAS_RB1_TARGETS_CONFLUENT	485	Up	5.99203E-05	0.00122036
234	LI_WILMS_TUMOR_ANAPLASTIC_UP	19	Down	6.02728E-05	0.001222271
235	LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT	64	Up	6.19901E-05	0.001251723
236	REACTOME_COPI_MEDIATED_TRANSPORT	10	Down	6.2364E-05	0.001253915
237	NEMETH_INFLAMMATORY_RESPONSE_LPS_UP	67	Up	6.74667E-05	0.001350764
238	KEGG_PYRUVATE_METABOLISM	34	Up	7.5152E-05	0.001492661
239	LI_INDUCED_T_TO_NATURAL_KILLER_UP	230	Up	7.51859E-05	0.001492661
240	PLASARI_NFIC_TARGETS_BASAL_DN	14	Up	7.55257E-05	0.001493134
241	PID_UPA_UPAR_PATHWAY	24	Up	7.80205E-05	0.001536029
242	COULOUARN_TEMPORAL_TGFB1_SIGNATURE_DN	114	Up	8.12153E-05	0.001592292
243	GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_DN	309	Down	8.32607E-05	0.001625649
244	JOHNSTONE_PARVB_TARGETS_3_UP	405	Up	8.42607E-05	0.001638402
245	OHASHI_AURKB_TARGETS	8	Down	8.48983E-05	0.001640494
246	SHAFFER_IRF4_MULTIPLE_MYELOMA_PROGRAM	32	Up	8.50627E-05	0.001640494
247	BURTON_ADIPOGENESIS_1	29	Up	8.56681E-05	0.001645455
248	TANG_SENESCENCE_TP53_TARGETS_DN	50	Down	9.38E-05	1.79E-03
249	DALESSIO_TSA_RESPONSE	19	Up	9.44E-05	1.80E-03
250	DASU_IL6_SIGNALING_DN	7	Up	9.47584E-05	0.001798127
251	TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_LOBULAR_NORMAL_DN	46	Up	0.000101407	0.001916589
252	ODONNELL_TFRC_TARGETS_DN	115	Down	0.000104061	0.001958923
253	BURTON_ADIPOGENESIS_PEAK_AT_2HR	45	Up	0.000104907	0.001967
254	KANG_DOXORUBICIN_RESISTANCE_DN	19	Up	0.000106459	0.001988224
255	JEPSEN_SMRT_TARGETS	32	Up	0.00010694	0.00198934
256	SCIAN_CELL_CYCLE_TARGETS_OF_TP53_AND_TP73_DN	21	Down	0.000109491	0.002028807

	A	B	C	D	E
257	HUANG_GATA2_TARGETS_DN	62	Up	0.00011338	0.002092664
258	KEGG_TRYPTOPHAN_METABOLISM	26	Up	0.000114779	0.002110241
259	BURTON_ADIPOGENESIS_9	82	Up	0.000117827	0.002157886
260	WIEMANN_TELOMERE_SHORTENING_AND_CHRONIC_LIVER_DAMAGE_DN	4	Up	0.000119245	0.002174143
261	PHONG_TNF_RESPONSE_NOT_VIA_P38	308	Up	0.000119635	0.002174143
262	LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_QUALITY	15	Down	0.000123875	0.002242557
263	PID_INTEGRIN3_PATHWAY	36	Up	0.000125976	0.002271888
264	ONDER_CDH1_SIGNALING_VIA_CTNNB1	73	Up	0.000134701	0.002420007
265	CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_UP	169	Down	0.0001368	0.002448407
266	LEE_LIVER_CANCER_ACOX1_UP	47	Up	0.000137546	0.002452474
267	SESTO_RESPONSE_TO_UV_C5	46	Up	0.000140574	0.00249704
268	LEI_HOXC8_TARGETS_DN	15	Up	0.000142355	0.002516881
269	YAMAZAKI_TCEB3_TARGETS_UP	157	Up	0.000142756	0.002516881
270	KEGG_AMINOACYL_TRNA_BIOSYNTHESIS	41	Up	0.000150397	0.002641725
271	BRUECKNER_TARGETS_OF_MIRLET7A3_DN	67	Up	0.000160962	0.002816842
272	SASSON_RESPONSE_TO_FORSKOLIN_DN	83	Up	0.000163251	0.002846348
273	ZHU_CMV_ALL_DN	111	Up	0.000168297	0.002923536
274	SAGIV_CD24_TARGETS_DN	39	Up	0.000171731	0.002972269
275	ZERBINI_RESPONSE_TO_SULINDAC_UP	6	Up	0.00017638	0.003041589
276	REACTOME_ALPHA_LINOLENIC_ACID_ALA_METABOLISM	11	Up	0.00017793	0.00305716
277	REACTOME_MITOTIC_PROMETAPHASE	85	Down	0.000178581	0.003057229
278	SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UMP	252	Up	0.000179828	0.003067465
279	TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN_ERYTHROCYTE_UP	35	Up	0.000185741	0.003156933
280	NIELSEN_LEIOMYOSARCOMA_CNN1_UP	18	Up	0.000190911	0.003233176
281	ZHU_SKIL_TARGETS_UP	17	Up	0.000197566	0.003329854
282	REACTOME_MRNA_SPLICING	106	Down	0.000198029	0.003329854

	A	B	C	D	E
283	LIU_VAV3_PROSTATE_CARCINOGENESIS_DN	13	Up	0.000199241	0.003338353
284	BROWN_MYELOID_CELL_DEVELOPMENT_UP	99	Up	0.000206869	0.003453907
285	PETRETTO_CARDIAC_HYPERTROPHY	30	Up	0.000211721	0.003512461
286	AGARWAL_AKT_PATHWAY_TARGETS	9	Up	0.000211863	0.003512461
287	ISHIDA_E2F_TARGETS	51	Down	0.000215228	0.003555777
288	CHANG_CYCLING_GENES	144	Down	0.000217807	0.003585843
289	GOLUB_ALL_VS_AML_DN	16	Up	2.22E-04	3.63E-03
290	VERHAAK_GLIOMASTOMA_MESENCHYMAL	164	Up	2.23E-04	3.65E-03
291	AKL_HTLV1_INFECTION_DN	52	Up	0.000226815	0.003695527
292	LEE_LIVER_CANCER_MYC_TGFA_UP	51	Up	0.000228636	0.003712387
293	REACTOME_KERATAN_SULFATE_DEGRADATION	5	Up	0.000231542	0.003734621
294	KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP	690	Up	0.000231586	0.003734621
295	KIM_WT1_TARGETS_8HR_UP	149	Up	0.000235932	0.00379177
296	GROSS_ELK3_TARGETS_DN	22	Up	0.000245076	0.003903781
297	BIOCARTA_RANMS_PATHWAY	10	Down	0.000245263	0.003903781
298	BERENJENO_TRANSFORMED_BY_RHOA_DN	364	Up	0.000245381	0.003903781
299	IGLESIAS_E2F_TARGETS_UP	126	Up	0.000247136	0.003918516
300	PETROVA_ENDOTHELIUM_LYMPHATIC_VS_BLOOD_DN	140	Up	0.000253347	0.004003562
301	ONDER_CDH1_TARGETS_3_UP	15	Up	0.000254686	0.004011299
302	DOANE_BREAST_CANCER_ESR1_DN	26	Up	0.000258625	0.004059807
303	LY_AGING_OLD_DN	53	Down	0.000266036	0.004162311
304	LEE_AGING_NEOCORTEX_UP	71	Up	0.000268189	0.004182163
305	DEMAGALHAES_AGING_DN	14	Up	0.000271972	0.004227198
306	WIEDERSCHAIN_TARGETS_OF_BMI1_AND_PCGF2	49	Up	0.000277159	0.00429369
307	ZHU_CMV_24_HR_DN	80	Up	0.000282621	0.004363999
308	DELPUECH_FOXO3_TARGETS_DN	35	Up	0.000285783	0.004378725
309	SEITZ_NEOPLASTIC_TRANSFORMATION_BY_8P_DELETION_DN	26	Up	0.000285898	0.004378725
310	KUWANO_RNA_STABILIZED_BY_NO	6	Up	0.000286355	0.004378725
311	BOYLAN_MULTIPLE_MYELOMA_D_CLUSTER_UP	25	Up	0.00029206	0.004447951

	A	B	C	D	E
312	ALTEMEIER_RESPONSE_TO_LPS_WITH_MECHANICAL_VENTILATION	72	Up	0.000292765	0.004447951
313	SENESE_HDAC2_TARGETS_DN	106	Up	0.000296017	0.004482944
314	KEGG_FATTY_ACID_METABOLISM	32	Up	0.000300899	0.004542322
315	ZWANG_CLASS_2_TRANSIENTLY_INDUCED_BY_EGF	33	Up	0.000324439	0.004882078
316	CLASPER_LYMPHATIC_VESSELS_DURING_METASTASIS_UP	15	Up	0.000330337	0.004955058
317	CHIARADONNA_NEOPLASTIC_TRANSFORMATION_CDC25_DN	137	Up	0.000338135	0.00505597
318	LEE_SP4_THYMOCYTE	11	Up	0.000342168	0.005100136
319	EGUCHI_CELL_CYCLE_RB1_TARGETS	23	Down	0.000348687	0.00518097
320	KRASNOSELSKAYA_ILF3_TARGETS_DN	43	Up	0.000353059	0.005229481
321	OHASHI_AURKA_TARGETS	6	Down	0.000355649	0.005251379
322	TRACEY_RESISTANCE_TO_IFNA2_DN	27	Up	0.000370171	0.005448779
323	NAKAYAMA_SOFT_TISSUE_TUMORS_PCA2_UP	77	Down	0.000374284	0.005492215
324	LINDVALL_IMMORTALIZED_BY_TERT_UP	64	Up	0.000387535	0.005653032
325	RAGHAVACHARI_PLATELET_SPECIFIC_GENES	59	Up	0.000387637	0.005653032
326	NADLER_OBESITY_DN	34	Up	0.000391414	0.005674133
327	REACTOME_GLYCEROPHOSPHOLIPID_BIOSYNTHESIS	69	Up	0.000391485	0.005674133
328	REACTOME_BIOLOGICAL_OXIDATIONS	65	Up	0.00040231	0.005813199
329	ALONSO_METASTASIS_EMT_UP	30	Up	0.000428442	0.006171921
330	MAINA_VHL_TARGETS_DN	16	Up	4.39E-04	6.30E-03
331	AMIT_EGF_RESPONSE_120_HELA	61	Up	4.42E-04	6.34E-03
332	REACTOME_FATTY_ACID_TRIACYLGLYCEROL_AND_KETONE_BODY_METABOLISM	150	Up	0.000449614	0.006412354
333	CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_3	617	Up	0.000450561	0.006412354
334	KEGG_ONE_CARBON_POOL_BY_FOLATE	16	Up	0.000459057	0.00651364
335	BIOCARTA_MCALPAIN_PATHWAY	21	Up	0.000471881	0.006675557

	A	B	C	D	E
336	REACTOME_INFLUENZA_VIRAL_RNA_TRANSCRIPTION_AND_REPLICATION	97	Down	0.00047591	0.006712465
337	WENG_POR_DOSAGE	15	Up	0.000479218	0.00672881
338	BOYLAN_MULTIPLE_MYELOMA_C_CLUSTER_DN	27	Up	0.000479917	0.00672881
339	IGARASHI_ATF4_TARGETS_UP	5	Up	0.000484645	0.006774989
340	ZHENG_RESPONSE_TO_ARSENITE_UP	15	Up	0.000490396	0.006824246
341	COWLING_MYCN_TARGETS	33	Up	0.000491057	0.006824246
342	BIOCARTA_VITCB_PATHWAY	10	Up	0.00049384	0.006842796
343	SWEET_KRAS_TARGETS_UP	76	Up	0.000507044	0.007005209
344	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_TURQUOISE_DN	49	Down	0.0005147	0.007090261
345	SHAFFER_IRF4_TARGETS_IN_MYELOMA_VS_MATURE_B_LYMPHOCYTE	97	Up	0.000518822	0.00712626
346	LAIHO_COLORECTAL_CANCER_SERRATED_UP	105	Up	0.000520402	0.007127247
347	YOSHIMURA_MAPK8_TARGETS_DN	325	Up	0.000522231	0.007131619
348	SU_TESTIS	55	Down	0.000549302	0.007479694
349	TORCHIA_TARGETS_OF_EWSR1_FLI1_FUSION_DN	269	Up	0.000551495	0.007487969
350	VERRECCHIA_RESPONSE_TO_TGFB1_C1	19	Up	0.000553744	0.007488025
351	REACTOME_PROCESSING_OF_CAPPED_INTRON_CONTAINING_PRE_MRNA	135	Down	0.000554669	0.007488025
352	FEVR_CTNNB1_TARGETS_UP	528	Up	0.000567328	0.00763711
353	HUPER_BREAST_BASAL_VS_LUMINAL_DN	46	Up	0.000575734	0.007728249
354	ZWANG_CLASS_3_TRANSIENTLY_INDUCED_BY_EGF	189	Up	0.000590914	0.007909537
355	REACTOME_MRNA_PROCESSING	151	Down	0.000593408	0.00791682
356	MIYAGAWA_TARGETS_OF_EWSR1_ETS_FUSIONS_DN	187	Up	0.00059573	0.00791682
357	DUTERTRE ESTRADIOL_RESPONSE_6HR_UP	214	Up	0.000596484	0.00791682
358	REACTOME_TRNA_AMINOACYLATION	42	Up	0.000611027	0.008087126
359	KEGG_GLYCINE_SERINE_AND_THREONINE_METABOLISM	24	Up	0.000619223	0.008172394

	A	B	C	D	E
360	REACTOME_3_UTR_MEDIATED_TRANSLATIONAL_REGULATION	102	Down	0.000620929	0.008172394
361	HOLLEMAN_PREDNISOLONE_RESISTANCE_B_ALL_DN	7	Up	0.00063068	0.008277669
362	LIU_VAV3_PROSTATE_CARCINOGENESIS_UP	49	Up	0.000639697	0.008372759
363	WATTEL_AUTONOMOUS_THYROID_ADENOMA_DN	40	Up	0.000656202	0.00855917
364	CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_DN	47	Up	0.000657562	0.00855917
365	WANG_RESPONSE_TO_GSK3_INHIBITOR_SB216763_DN	330	Up	0.00067072	0.008706468
366	MCBRYAN_PUBERTAL_BREAST_5_6WK_UP	96	Up	0.000696856	0.009007364
367	LINDSTEDT_DENDRITIC_CELL_MATURATION_B	43	Up	0.000697713	0.009007364
368	VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_UP	145	Up	0.00070126	0.009028486
369	SMITH_TERT_TARGETS_DN	76	Up	0.00073717	0.009465018
370	TSUDA_ALVEOLAR_SOFT_PART_SARCOMA	10	Up	0.00074299	0.009513898
371	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_16	9	Up	7.53E-04	9.60E-03
372	MATTHEWS_AP1_TARGETS	15	Up	7.53E-04	9.60E-03
373	GESERICK_TERT_TARGETS_DN	21	Up	0.000756197	0.009604928
374	MORI_LARGE_PRE_BII_LYMPHOCYTE_UP	82	Down	0.000758315	0.009606
375	NUYTEN_EZH2_TARGETS_UP	911	Up	0.000772152	0.009755124
376	BILBAN_B_CLL_LPL_UP	52	Up	0.000778828	0.009813228
377	KEGG_PROPANOATE_METABOLISM	29	Up	0.000781134	0.009816117
378	MARKEY_RB1_CHRONIC_LOF_UP	99	Up	0.000797569	0.009996056
379	JOHNSTONE_PARVB_TARGETS_2_UP	128	Up	0.000803531	0.010044143
380	REACTOME_GLYCOPROTEIN_HORMONES	2	Up	0.000814198	0.010150622
381	PANGAS_TUMOR_SUPPRESSION_BY_SMAD1_AND_SMAD5_UP	113	Up	0.000817949	0.010170544
382	LOPEZ_MESOTELIOMA_SURVIVAL_TIME_UP	14	Down	0.000826787	0.010233904
383	WONG_ADULT_TISSUE_STEM_MODULE	591	Up	0.000827376	0.010233904

	A	B	C	D	E
384	BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_UP	21	Up	0.000833746	0.010285767
385	CAIRO_HEPATOBLASTOMA_CLASSES_DN	150	Up	0.000841425	0.010336725
386	WANG_SMARCE1_TARGETS_UP	228	Up	0.000842252	0.010336725
387	PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_4	93	Up	0.000856838	0.010462094
388	HORIUCHI_WTAP_TARGETS_UP	258	Up	0.000856895	0.010462094
389	TOMIDA_METASTASIS_DN	15	Up	0.000874615	0.010650918
390	BROCKE_APOPTOSIS_REVERSED_BY_IL6	133	Up	0.000886915	0.010764286
391	ZHAN_LATE_DIFFERENTIATION_GENES_UP	28	Up	0.000888481	0.010764286
392	BAE_BRCA1_TARGETS_UP	71	Up	0.000910081	0.010997784
393	CROONQUIST_NRAS_SIGNALING_UP	20	Up	0.000924216	0.011140099
394	FARMER_BREAST_CANCER_APOCRINE_VS_LUMINAL	270	Up	0.00094798	0.011397468
395	ROSS_AML_WITH_CFBF_MYH11_FUSION	34	Up	0.000957522	0.011473586
396	MODY_HIPPOCAMPUS_NEONATAL	33	Up	0.000959168	0.011473586
397	RICKMAN_HEAD_AND_NECK_CANCER_B	21	Up	0.000969581	0.011568868
398	PID_AVB3_INTEGRIN_PATHWAY	67	Up	0.000975724	0.011612834
399	LEE_EARLY_T_LYMPHOCYTE_UP	94	Down	0.000986376	0.011687366
400	HOUSTIS_ROS	32	Up	0.000986933	0.011687366
401	AMIT_SERUM_RESPONSE_40_MCF10A	27	Up	0.001004348	0.011833356
402	ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_24_HR	120	Down	0.001005466	0.011833356
403	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_BLACK_UP	32	Up	0.001006774	0.011833356
404	WAKABAYASHI_ADIPOGENESIS_PPARG_RXRA_BOUND_WITH_H4K20ME1_MARK	140	Up	0.001023475	0.011999802
405	HSIAO_LIVER_SPECIFIC_GENES	114	Up	0.001028397	0.012027664
406	HOELZEL_NF1_TARGETS_UP	112	Up	0.001031846	0.012038199
407	REACTOME_ENDOSOMAL_VACUOLAR_PATHWAY	7	Up	0.001058393	0.012317503

	A	B	C	D	E
408	REACTOME_CHYLOMICRON_MEDIATED_LIPID_TRANSPORT	9	Up	0.001062057	0.012329778
409	SCHAEFFER_PROSTATE_DEVELOPMENT_6HR_UP	142	Up	0.001073846	0.012436086
410	GOTZMANN_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_UP	62	Up	0.001100137	0.012709403
411	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREEN_UP	22	Up	0.001107245	0.012736707
412	REACTOME_APC_CDC20_MEDIATED_DEGRADATION_OF_NEK2A	21	Down	1.11E-03	1.27E-02
413	BIOCARTA_GLYCOLYSIS_PATHWAY	9	Down	1.12E-03	1.28E-02
414	REACTOME_SYNTHESIS_OF_PE	10	Up	0.001124221	0.012861846
415	DUTERTRE ESTRADIOL_RESPONSE_24HR_DN	470	Up	0.001135345	0.012957742
416	FARMER_BREAST_CANCER_CLUSTER_7	16	Up	0.00117033	0.013301353
417	ONDER_CDH1_TARGETS_1_DN	136	Up	0.001171326	0.013301353
418	KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION	104	Up	0.001174862	0.013301353
419	CHESLER_BRAIN_QTL_TRANS	5	Up	0.001176712	0.013301353
420	AMIT_SERUM_RESPONSE_240_MCF10A	49	Up	0.001191843	0.01344023
421	BAKER_HEMATOPOIESIS_STAT3_TARGETS	15	Up	0.0011961	0.013456122
422	SCHMIDT_POR_TARGETS_IN_LIMB_BUD_DN	4	Up	0.001207385	0.013550813
423	REACTOME_ACYL_CHAIN_REMODELLING_OF_PE	13	Up	0.001228311	0.013753009
424	BIOCARTA_NO1_PATHWAY	24	Up	0.001236013	0.013806528
425	SAMOLS_TARGETS_OF_KHSV_MIRNAS_DN	54	Up	0.00124606	0.01385763
426	CHEN_PDGF_TARGETS	17	Up	0.001246454	0.01385763
427	HIRSCH_CELLULAR_TRANSFORMATION_SIGNALING_UP	219	Up	0.00126053	0.013959059
428	KUROKAWA_LIVER_CANCER_EARLY_RECURRENCE_DN	7	Up	0.001261485	0.013959059
429	LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_S	34	Up	0.001266537	0.013971318
430	MALL_VS_HUGE_UP	52	Up	0.001270972	0.013971318

	A	B	C	D	E
431	MARSON_FOXP3_TARGETS_UP	56	Up	0.00127408	0.013971318
432	DAVICIONI_RHABDOMYOSARCOMA_PAX_FOXO1_FUSION_UP	56	Up	0.001276001	0.013971318
433	DAUER_STAT3_TARGETS_DN	40	Up	0.001277378	0.013971318
434	DORN_ADENOVIRUS_INFECTION_48HR_DN	36	Up	0.001324144	0.014421769
435	MIKKELSEN_NPC_ICP_WITH_H3K27ME3	6	Down	0.001324666	0.014421769
436	PID_ARF_3PATHWAY	19	Down	0.001343672	0.014536011
437	VANDESLUIS_COMMD1_TARGETS_GROUP_4_UP	14	Up	0.001343858	0.014536011
438	GUTIERREZ_CHRONIC_LYMPHOCYTIC_LEUKEMIA_DN	45	Up	0.001344389	0.014536011
439	CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_5	435	Up	0.001363593	0.01470999
440	KEEN_RESPONSE_TO_ROSIGLITAZONE_DN	78	Up	0.001396679	0.015032594
441	CHIBA_RESPONSE_TO_TSA	45	Up	0.001420491	0.015254132
442	REACTOME_PHASE1_FUNCTIONALIZATION_OF_C OMPOUNDS	26	Up	0.001440899	0.015438202
443	NAKAYAMA_FGF2_TARGETS	24	Up	0.001455859	0.015563202
444	KOKKINAKIS_METHIONINE_DEPRIVATION_48HR_UP	110	Up	0.001460888	0.015581707
445	SMITH_TERT_TARGETS_UP	138	Up	0.001496789	0.015896929
446	REACTOME_METABOLISM_OF_VITAMINS_AND_C OFACTORS	49	Up	0.001497171	0.015896929
447	LINDGREN_BLADDER_CANCER_HIGH_RECURRENC E	41	Up	0.001503116	0.015907611
448	FU_INTERACT_WITH_ALKBH8	13	Down	0.001504911	0.015907611
449	NABA_COLLAGENS	37	Up	0.00151929	0.016023758
450	LU_AGING_BRAIN_UP	231	Up	0.001528429	0.016084243
451	KEGG_RNA_DEGRADATION	56	Down	0.001541903	0.016189981
452	MCBRYAN_PUBERTAL_TGFB1_TARGETS_UP	159	Up	0.001562665	0.0163716
453	CROONQUIST_NRAS_SIGNALING_DN	72	Down	1.58E-03	1.65E-02
454	BOYLAN_MULTIPLE_MYELOMA_D_UP	79	Up	1.59E-03	1.66E-02

	A	B	C	D	E
455	PID_SYNDECAN_1_PATHWAY	39	Up	0.001615121	0.016809352
456	CORRE_MULTIPLE_MYELOMA_UP	51	Up	0.001626792	0.016873241
457	ZAIDI_OSTEOBLAST_TRANSCRIPTION_FACTORS	9	Up	0.001629969	0.016873241
458	AMIT_EGF_RESPONSE_120_MCF10A	38	Up	0.001631973	0.016873241
459	ZHOU_PANCREATIC_ENDOCRINE_PROGENITOR	6	Down	0.001687251	0.017370447
460	KOINUMA_TARGETS_OF_SMAD2_OR_SMAD3	766	Up	0.001687415	0.017370447
461	LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_S MALL_VS_HUGE_DN	30	Down	0.001696322	0.017396311
462	KAMMINGA_EZH2_TARGETS	40	Down	0.001697291	0.017396311
463	LANDIS_ERBB2_BREAST_TUMORS_65_UP	21	Up	0.00171497	0.017539468
464	GROSS_HYPOXIA_VIA_HIF1A_ONLY	7	Up	0.001723153	0.017585098
465	FOSTER_TOLERANT_MACROPHAGE_UP	121	Up	0.001727155	0.017587947
466	CAIRO_HEPATOBLASTOMA_DN	177	Up	0.001732592	0.017605371
467	KASLER_HDAC7_TARGETS_2_DN	28	Up	0.001751567	0.017759983
468	PARK_APL_PATHOGENESIS_DN	33	Up	0.001768747	0.017895226
469	BOYLAN_MULTIPLE_MYELOMA_PCA3_UP	67	Up	0.001772479	0.017895226
470	YANAGIHARA_ESX1_TARGETS	26	Up	0.001777323	0.017905869
471	WHITFIELD_CELL_CYCLE_G2_M	204	Down	0.001782345	0.017918253
472	SASAI_RESISTANCE_TO NEOPLASTIC_TRANSFORMATION	45	Up	0.001792482	0.017981907
473	LIU_PROSTATE_CANCER_DN	389	Up	0.001805689	0.018037749
474	MARIADASON_RESPONSE_TO_BUTYRATE_CURC UMIN_SULINDAC_TSA_2	8	Up	0.001808274	0.018037749
475	KEGG_OTHER_GLYCAN_DEGRADATION	14	Up	0.001809501	0.018037749
476	BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_DN	150	Up	0.001822579	0.018129864
477	YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_6	61	Up	0.001828034	0.018145927
478	REACTOME_PEPTIDE_HORMONE_BIOSYNTHESIS	4	Up	0.001863866	0.018462819
479	FULCHER_INFLAMMATORY_RESPONSE_LLECTIN_VS_LPS_UP	480	Up	0.001898307	0.018731276
480	MIKKELSEN_PLURIPOTENT_STATE_DN	8	Up	0.001898896	0.018731276

	A	B	C	D	E
481	MIZUKAMI_HYPOXIA_UP	11	Up	0.00191705	0.018857752
482	AMIT_EGF_RESPONSE_40_HELA	38	Up	0.001919699	0.018857752
483	WORSCHER_TUMOR_EVASION_AND_TOLERANCE_NICITY_UP	9	Up	0.001928299	0.018902931
484	BHATI_G2M_ARREST_BY_2METHOXYESTRADIOL_DN	107	Up	0.001948631	0.018951121
485	ONGUSAHA_BRCA1_TARGETS_UP	9	Up	0.001949104	0.018951121
486	REACTOME_LIPOPROTEIN_METABOLISM	15	Up	0.001949124	0.018951121
487	YUAN_ZNF143_PARTNERS	21	Down	0.001949258	0.018951121
488	OHGUCHI_LIVER_HNF4A_TARGETS_DN	70	Up	0.001982283	0.019193616
489	DAVICIONI_PAX_FOXO1_SIGNATURE_IN_ARMS_UP	51	Up	0.001983389	0.019193616
490	PHONG_TNF_RESPONSE_VIA_P38_COMPLETE	214	Up	0.001988179	0.019193616
491	CLAUS_PGR_POSITIVE_MENINGIOMA_DN	11	Up	0.001990449	0.019193616
492	REACTOME_PURINE_CATABOLISM	8	Up	0.002109527	0.020284379
493	REACTOME_ABORTIVE_ELONGATION_OF_HIV1_TRANSCRIPT_IN_THE_ABSENCE_OF_TAT	22	Down	0.002112151	0.020284379
494	LEE_LIVER_CANCER_E2F1_UP	42	Up	2.12E-03	2.03E-02
495	PID_AVB3_OPN_PATHWAY	30	Up	2.13E-03	2.04E-02
496	REACTOME_PEPTIDE_CHAIN_ELONGATION	82	Down	0.002135079	0.0203803
497	WEST_ADRENOCORTECAL_TUMOR_UP	287	Up	0.002152617	0.020431763
498	KERLEY_RESPONSE_TO_CISPLATIN_UP	43	Up	0.00215267	0.020431763
499	CAIRO_HEPATOBLASTOMA_CLASSES_UP	596	Down	0.002153443	0.020431763
500	REACTOME_NONSENSE_MEDIATED_DECAY_ENHANCED_BY_THE_EXON_JUNCTION_COMPLEX	103	Down	0.002181968	0.020660915
501	TSUNODA_CISPLATIN_RESISTANCE_UP	13	Up	0.002199552	0.020753578
502	HANN_RESISTANCE_TO_BCL2_INHIBITOR_UP	29	Up	0.002200538	0.020753578
503	ABE_VEGFA_TARGETS_30MIN	22	Up	0.002220032	0.020895722
504	REACTOME_GLUTATHIONE_CONJUGATION	18	Up	0.002251621	0.021150912
505	BUSA_SAM68_TARGETS_DN	4	Up	0.002371315	0.022231074
506	PID_AURORA_A_PATHWAY	31	Down	0.002377463	0.02224458
507	KEGG_RIBOSOME	83	Down	0.002383573	0.022257677

	A	B	C	D	E
508	BOYLAN_MULTIPLE_MYELOMA_C_DN	55	Up	0.002390003	0.022273697
509	AZARE_NEOPLASTIC_TRANSFORMATION_BY_STA T3_UP	98	Up	0.002415577	0.022431023
510	PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA _DN	124	Up	0.002416379	0.022431023
511	BRUINS_UVC_RESPONSE_VIA_TP53_GROUP_B	441	Up	0.00242672	0.022482845
512	BILD_HRAS_ONCOGENIC_SIGNATURE	220	Up	0.002447729	0.022633108
513	KEGG_CITRATE_CYCLE_TCA_CYCLE	28	Up	0.002463842	0.022737603
514	MISHRA_CARCINOMA_ASSOCIATED_FIBROBLAST _UP	18	Up	0.002513797	0.023153396
515	YANG_BREAST_CANCER_ESR1_LASER_DN	47	Up	0.002524152	0.023199984
516	WHITFIELD_CELL_CYCLE_G2	170	Down	0.002528676	0.023199984
517	CAIRO_PML_TARGETS_BOUND_BY_MYC_DN	13	Up	0.002581911	0.023624953
518	OXFORD_RALA_OR_RALB_TARGETS_DN	23	Up	0.002584995	0.023624953
519	SANA_RESPONSE_TO_IFNG_UP	51	Up	0.002604138	0.023753957
520	GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDI NG_UP	35	Up	0.002624379	0.023867959
521	DORN_ADENOVIRUS_INFECTION_32HR_DN	36	Up	0.002626738	0.023867959
522	LEE_TARGETS_OF_PTCH1_AND_SUFU_UP	42	Up	0.002644783	0.023985796
523	VALK_AML_CLUSTER_1	20	Up	0.002655676	0.024002479
524	MISSIAGLIA_REGULATED_BY_METHYLATION_UP	104	Up	0.002659774	0.024002479
525	HAN_SATB1_TARGETS_DN	386	Up	0.002664586	0.024002479
526	PIONTEK_PKD1_TARGETS_UP	30	Up	0.002666942	0.024002479
527	SCHLOSSER_SERUM_RESPONSE_AUGMENTED_B Y_MYC	99	Down	0.00270969	0.024340843
528	NEWMAN_ERCC6_TARGETS_DN	25	Up	0.002722145	0.024406325
529	FURUKAWA_DUSP6_TARGETS_PCI35_DN	66	Down	0.002773383	0.024812205
530	BIOCARTA_ARAP_PATHWAY	16	Down	0.002777917	0.024812205
531	REACTOME_ACYL_CHAIN_REMODELLING_OF_PS	7	Up	0.002820609	0.025145996
532	BOQUEST_STEM_CELL_CULTURED_VS_FRESH_DN	13	Up	0.002853958	0.025395391

	A	B	C	D	E
533	VISALA_RESPONSE_TO_HEAT_SHOCK_AND_AGIN G_UP	13	Up	0.002868715	0.025478722
534	TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_UP	66	Up	0.002895067	0.02563945
535	MARKEY_RB1_ACUTE_LOF_DN	155	Up	2.90E-03	2.56E-02
536	COATES_MACROPHAGE_M1_VS_M2_DN	59	Up	2.93E-03	2.59E-02
537	HENDRICKS_SMARCA4_TARGETS_DN	33	Up	0.002959358	0.026053621
538	WAMUNYOKOLI_OVARIAN_CANCER_GRADES_1_ 2_UP	126	Up	0.002961015	0.026053621
539	CASTELLANO_NRAS_TARGETS_UP	50	Up	0.002973621	0.026115907
540	GARY_CD5_TARGETS_UP	439	Up	0.003070437	0.026916168
541	CAFFAREL_RESPONSE_TO_THC_DN	29	Up	0.003088885	0.027027742
542	AMUNDSON_POOR_SURVIVAL_AFTER_GAMMA_ RADIATION_8G	85	Up	0.003119925	0.027214471
543	FRIDMAN_SENESCENCE_UP	68	Up	0.003123402	0.027214471
544	SESTO_RESPONSE_TO_UV_C7	64	Up	0.003127504	0.027214471
545	WIERENGA_STAT5A_TARGETS_UP	166	Up	0.003133941	0.027220351
546	PID_INTEGRIN_A9B1_PATHWAY	20	Up	0.003144035	0.027257921
547	SENESE_HDAC1_TARGETS_UP	400	Up	0.003154149	0.027267396
548	REACTOME_INSULIN_RECEPTOR_RECYCLING	19	Up	0.003159931	0.027267396
549	BAELDE_DIABETIC_NEPHROPATHY_DN	399	Up	0.003162441	0.027267396
550	REACTOME_POST_CHAPERONIN_TUBULIN_FOLDI NG_PATHWAY	15	Up	0.003262229	0.028076565
551	WOO_LIVER_CANCER_RECURRENCE_DN	51	Up	0.00327619	0.028145452
552	BAKER_HEMATOPOESIS_STAT5_TARGETS	7	Up	0.00330817	0.028275544
553	KOBAYASHI_EGFR_SIGNALING_24HR_UP	86	Up	0.003313265	0.028275544
554	ZHU_CMV_8_HR_DN	47	Up	0.003314731	0.028275544
555	RIGGINS_TAMOXIFEN_RESISTANCE_DN	204	Up	0.003324567	0.028275544
556	LIU_TARGETS_OF_VMYB_VS_CMYB_DN	29	Up	0.003326816	0.028275544
557	SMID_BREAST_CANCER_LUMINAL_B_DN	341	Up	0.003327239	0.028275544
558	QI_PLASMACYTOMA_UP	179	Up	0.003363035	0.028528442
559	MONTERO_THYROID_CANCER_POOR_SURVIVAL_ UP	12	Down	0.003372316	0.028555904

	A	B	C	D	E
560	MARIADASON_RESPONSE_TO_CURCUMIN_SULIN_DAC_7	16	Down	0.003393487	0.028683767
561	HOFMANN_MYELODYSPLASTIC_SYNDROM_LOW_RISK_DN	26	Up	0.003462788	0.029187652
562	HOQUE_METHYLATED_IN_CANCER	37	Up	0.003465455	0.029187652
563	MORI_LARGE_PRE_BII_LYMPHOCYTE_DN	42	Up	0.003494193	0.029377332
564	VANHARANTA_UTERINE_FIBROID_DN	54	Up	0.003520796	0.02954842
565	MAINA_VHL_TARGETS_UP	9	Up	0.003529614	0.029569901
566	PAPASPYRIDONOS_UNSTABLE_ATEROSCLEROTIC_PLAQUE_UP	36	Up	0.00354244	0.029624828
567	SENESE_HDAC3_TARGETS_DN	494	Up	0.003566312	0.029771771
568	LEIN_OLIGODENDROCYTE_MARKERS	60	Up	0.003575169	0.029777418
569	OKAMOTO_LIVER_CANCER_MULTICENTRIC_OCCURRENCE_UP	18	Up	0.003579592	0.029777418
570	BOSCO_ALLERGEN_INDUCED_TH2_ASSOCIATED_MODULE	109	Up	0.003613292	0.030004928
571	REACTOME_TRANSFERRIN_ENDOCYTOSIS_AND_RECYCLING	21	Up	0.003628442	0.030068071
572	REACTOME_ACYL_CHAIN_REMODELLING_OF_PC	14	Up	0.003633623	0.030068071
573	PEPPER_CHRONIC_LYMPHOCYTIC_LEUKEMIA_UP	18	Up	0.003669688	0.030313419
574	LUI_THYROID_CANCER_PAX8_PPARG_UP	41	Up	0.003725628	0.030721805
575	REACTOME_ACYL_CHAIN_REMODELLING_OF_PI	7	Up	0.003778995	0.031107577
576	OXFORD_RALB_TARGETS_UP	8	Up	3.84E-03	3.16E-02
577	MENSE_HYPOXIA_UP	96	Up	3.85E-03	3.16E-02
578	REACTOME_INHIBITION_OF_THE_PROTEOLYTIC_ACTIVITY_OF_APC_C_REQUIRED_FOR_THE_ONSET_OF_ANAPHASE_BY_MITOTIC_SPINDLE_CHECKPOINT_COMPONENTS	18	Down	0.003858475	0.031557451
579	REACTOME_ANTIGEN_PRESENTATION_FOLDING_ASSEMBLY_AND_PEPTIDE_LOADING_OF_CLASS_I_MHC	20	Up	0.003860361	0.031557451
580	MASSARWEH_TAMOXIFEN_RESISTANCE_UP	507	Up	0.003952757	0.032227568

	A	B	C	D	E
581	NIELSEN_LEIOMYOSARCOMA_DN	16	Up	0.003955977	0.032227568
582	MARIADASON_RESPONSE_TO_CURCUMIN_SULIN DAC_5	22	Up	0.003972743	0.032308453
583	PID_CASPASE_PATHWAY	43	Up	0.003987646	0.03237393
584	XU_HGF_SIGNALING_NOT_VIA_AKT1_6HR	25	Up	0.004036932	0.032689444
585	REACTOME_SRP_DEPENDENT_COTRANSLATIONA L_PROTEIN_TARGETING_TO_MEMBRANE	105	Down	0.004040346	0.032689444
586	CROONQUIST_IL6_DEPRIVATION_DN	97	Down	0.004051891	0.032726813
587	KIM_WT1_TARGETS_12HR_UP	147	Up	0.004100642	0.033064052
588	GRAHAM_CML_QUIESCENT_VS_CML_DIVIDING_D N	5	Down	0.004115197	0.033124879
589	PROVENZANI_METASTASIS_DN	124	Up	0.00417321	0.03353061
590	REACTOME_MRNA_SPLICING_MINOR_PATHWAY	41	Down	0.004179795	0.03353061
591	VETTER_TARGETS_OF_PRKCA_AND_ETS1_DN	11	Up	0.004190373	0.033558492
592	REACTOME_PLATELET_ACTIVATION_SIGNALING_ AND_AGGREGATION	143	Up	0.004201661	0.033591958
593	REACTOME_SLC_MEDIATED_TRANSMEMBRANE_ TRANSPORT	162	Up	0.004244689	0.033843118
594	BROWNE_HCMV_INFECTION_24HR_DN	132	Up	0.004247401	0.033843118
595	KOKKINAKIS_METHIONINE_DEPRIVATION_96HR_ UP	104	Up	0.004265407	0.033924842
596	YANG_MUC2_TARGETS_DUODENUM_6MO_DN	13	Up	0.004272017	0.033924842
597	STANHILL_HRAS_TRANSFROMATION_UP	8	Up	0.004287514	0.033990782
598	LEE_LIVER_CANCER_E2F1_DN	35	Up	0.004303262	0.034058485
599	KEGG_PORPHYRIN_AND_CHLOROPHYLL_METABO LISM	21	Up	0.004311615	0.034067528
600	RICKMAN_HEAD_AND_NECK_CANCER_F	30	Up	0.004326653	0.034129277
601	LIEN_BREAST_CARCINOMA_METAPLASTIC_VS_D UCTAL_UP	65	Up	0.004350079	0.034256874
602	ZHAN_MULTIPLE_MYELOMA_HP_DN	43	Up	0.004365095	0.034317928

	A	B	C	D	E
603	WINNEPENINCKX_MELANOMA_METASTASIS_UP	158	Down	0.004375599	0.034343367
604	VERHAAK_GLIOMASTOMA_PRONEURAL	155	Down	0.004416156	0.03460421
605	OSADA_ASCL1_TARGETS_DN	18	Up	0.00456216	0.03568908
606	NAKAMURA_ADIPOGENESIS_EARLY_UP	54	Up	0.004581853	0.035783893
607	GERHOLD_ADIPOGENESIS_DN	58	Up	0.004633425	0.036126953
608	ROSS_LEUKEMIA_WITH_MLL_FUSIONS	62	Up	0.004666268	0.036323093
609	WU_APOPTOSIS_BY_CDKN1A_VIA_TP53	54	Down	0.004703956	0.036522534
610	KEGG_GLYCATHIONE_METABOLISM	40	Up	0.004707349	0.036522534
611	DAVIES_MULTIPLE_MYELOMA_VS_MGUS_DN	17	Up	0.004785857	0.037070781
612	GAZDA_DIAMOND_BLACKFAN_ANEMIA_PROGENITOR_UP	34	Up	0.004800911	0.037126518
613	ACEVEDO_NORMAL_TISSUE_ADJACENT_TO_LIVER_TUMOR_DN	308	Up	0.004851869	0.037428652
614	DOUGLAS_BMI1_TARGETS_DN	284	Up	0.004855823	0.037428652
615	FURUKAWA_DUSP6_TARGETS_PC135_UP	46	Up	0.004874892	0.037514435
616	SHIN_B_CELL_LYMPHOMA_CLUSTER_5	8	Up	0.004889358	0.037564577
617	ZWANG_CLASS_1_TRANSIENTLY_INDUCED_BY_EGF	415	Up	4.91E-03	3.77E-02
618	CAIRO_LIVER_DEVELOPMENT_DN	140	Up	4.94E-03	3.78E-02
619	LAU_APOPTOSIS_CDKN2A_DN	5	Up	0.004973298	0.038024
620	RAY_TARGETS_OF_P210_BCR_ABL_FUSION_UP	13	Up	0.005006782	0.038205851
621	ACEVEDO_LIVER_CANCER_DN	430	Up	0.005013255	0.038205851
622	BURTON_ADIPOGENESIS_3	98	Down	0.00505018	0.03842528
623	WANG_ESOPHAGUS_CANCER_VS_NORMAL_UP	87	Up	0.005128653	0.038959621
624	PARK_TRETINOIN_RESPONSE	5	Up	0.005269814	0.03996769
625	HAHTOLA_MYCOSIS_FUNGOIDES_CD4_UP	48	Up	0.005334862	0.040396189
626	HINATA_NFKB_TARGETS_KERATINOCYTE_UP	65	Up	0.005358131	0.040507468
627	REACTOME_FORMATION_OF_THE_HIV1_EARLY_ENTRY_COMPLEX	30	Down	0.005480972	0.041369956
628	CAIRO_HEPATOBLASTOMA_POOR_SURVIVAL	10	Down	0.005566886	0.041951415

	A	B	C	D	E
629	FARMER_BREAST_CANCER_APOCRINE_VS_BASAL	283	Up	0.005619105	0.042277502
630	KEGG_EPITHELIAL_CELL_SIGNALING_IN_HELICOBACTER_PYLORI_INFECTION	61	Up	0.005635949	0.042314228
631	ELVIDGE_HYPOXIA_BY_DMOG_UP	122	Up	0.005641897	0.042314228
632	SUNG_METASTASIS_STROMA_DN	49	Up	0.005682672	0.042552499
633	GINESTIER_BREAST_CANCER_20Q13_AMPLIFICATION_DN	168	Down	0.005763459	0.043089152
634	REACTOME_PHOSPHOLIPID_METABOLISM	166	Up	0.005793558	0.043197824
635	GAUSSMANN_MLL_AF4_FUSION_TARGETS_E_UP	81	Up	0.00579628	0.043197824
636	JOHNSTONE_PARVB_TARGETS_1_UP	6	Up	0.005814228	0.043202265
637	MONNIER_POSTRADIATION_TUMOR_ESCAPE_DN	341	Up	0.005815162	0.043202265
638	AMIT_EGF_RESPONSE_40_MCF10A	19	Up	0.005859126	0.043460547
639	KEGG_AXON_GUIDANCE	125	Down	0.005964159	0.044170302
640	CHASSOT_SKIN_WOUND	9	Up	0.006013761	0.044422739
641	KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450	26	Up	0.006017048	0.044422739
642	HWANG_PROSTATE_CANCER_MARKERS	23	Up	0.006120496	0.045115984
643	PAPASPYRIDONOS_UNSTABLE_ATHEROSCLEROTIC_PLAQUE_DN	37	Up	0.006135769	0.045158113
644	FLECHNER_PBL_KIDNEY_TRANSPLANT_OK_VS_DONOR_DN	36	Up	0.006159526	0.045262458
645	PID_AR_TF_PATHWAY	45	Down	0.006287621	0.046132002
646	HOLLMANN_APOPTOSIS_VIA_CD40_DN	239	Up	0.00630812	0.046210646
647	ONO_AML1_TARGETS_UP	12	Up	0.006320838	0.046231141
648	REACTOME_TRANSMEMBRANE_TRANSPORT_OF_SMALL_MOLECULES	281	Up	0.006330486	0.046231141
649	BIOCARTA_CARDIACEGF_PATHWAY	16	Up	0.006355515	0.046342294
650	CHUANG_OXIDATIVE_STRESS_RESPONSE_UP	26	Up	0.006408537	0.046656911
651	ISHIDA_TARGETS_OF_SYT_S SX_FUSIONS	5	Up	0.006437433	0.046795182

	A	B	C	D	E
652	REACTOME_METABOLISM_OF_AMINO_ACIDS_AND_DERIVATIVES	149	Up	0.006541114	0.047475827
653	BECKER_TAMOXIFEN_RESISTANCE_UP	40	Up	0.00655705	0.047518496
654	REACTOME_TRANS_GOLGI_NETWORK_VESICLE_BUDDING	59	Up	0.006601639	0.047768368
655	TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_10D_DN	80	Up	0.006633868	0.047928175
656	HEIDENBLAD_AMPLIFIED_IN_BONE_CANCER	5	Up	0.00664862	0.047961422
657	JIANG_HYPOXIA_NORMAL	292	Up	0.006693907	0.048214039
658	HANN_RESISTANCE_TO_BCL2_INHIBITOR_DN	34	Up	6.71E-03	4.82E-02
659	ROETH_TERT_TARGETS_UP	8	Up	6.71E-03	4.82E-02
660	PHONG_TNF_RESPONSE_VIA_P38_PARTIAL	137	Up	0.006743093	0.04834767
661	FARMER_BREAST_CANCER_CLUSTER_6	12	Up	0.006776722	0.048515171
662	REACTOME_PERK_REGULATED_GENE_EXPRESSION	25	Up	0.006799027	0.048601214
663	LINDGREN_BLADDER_CANCER_CLUSTER_2A_DN	129	Up	0.006814118	0.048635513
664	COLIN_PILOCYTIC_ASTROCYTOMA_VS_GLIOMASTOMA_UP	30	Up	0.006869784	0.048751806
665	REACTOME_TRANSLATION	141	Down	0.00686998	0.048751806
666	TSAI_RESPONSE_TO_RADIATION_THERAPY	23	Up	0.006870599	0.048751806
667	LINDGREN_BLADDER_CANCER_CLUSTER_2B	301	Up	0.006871683	0.048751806
668	REACTOME_REGULATION_OF_MITOTIC_CELL_CYCLE	76	Down	0.006899806	0.048877936
669	SHI_SPARC_TARGETS_UP	22	Up	0.007002187	0.049526369
670	NOUSHMEHR_GBM_SILENCED_BY_METHYLATION	38	Up	0.007012305	0.049526369
671	CAFFAREL_RESPONSE_TO_THC_8HR_5_DN	11	Up	0.007124636	0.050244634
672	BROWNE_HCMV_INFECTION_20HR_DN	85	Up	0.007149425	0.050268467
673	CHIANG_LIVER_CANCER_SUBCLASS_CTNNB1_DN	126	Up	0.007150259	0.050268467
674	REACTOME_INFLUENZA_LIFE_CYCLE	131	Down	0.007168573	0.050268467

	A	B	C	D	E
675	KEGG_COMPLEMENT_AND_COAGULATION_CASC ADES	27	Up	0.007170571	0.050268467
676	CROSBY_E2F4_TARGETS	6	Down	0.007230994	0.050543543
677	TAVOR_CEBPA_TARGETS_UP	34	Up	0.00724143	0.050543543
678	REACTOME_MUSCLE_CONTRACTION	37	Up	0.007252003	0.050543543
679	REACTOME_METABOLISM_OF_RNA	250	Down	0.007252597	0.050543543
680	BUSA_SAM68_TARGETS_UP	5	Up	0.00726706	0.050569744
681	ELVIDGE_HYPOXIA_UP	162	Up	0.007308485	0.050783225
682	PARK_TRETINOIN_RESPONSE_AND_PML_RARA_F USION	21	Up	0.007326227	0.050831754
683	COATES_MACROPHAGE_M1_VS_M2_UP	69	Up	0.007369166	0.051054704
684	PUJANA_BREAST_CANCER_WITH_BRCA1_MUTAT ED_UP	54	Down	0.007380107	0.051055643
685	SESTO_RESPONSE_TO_UV_C6	39	Up	0.007470828	0.051607691
686	ZHU_CMV_ALL_UP	106	Up	0.007499136	0.051727616
687	WIELAND_UP_BY_HBV_INFECTION	70	Up	0.007600648	0.0523514
688	CUI_TCF21_TARGETS_2_DN	742	Up	0.00765098	0.052621367
689	REACTOME_METABOLISM_OF_MRNA	205	Down	0.007688585	0.052803143
690	GROSS_HYPOXIA_VIA_ELK3_ONLY_DN	41	Down	0.007875883	0.054008812
691	REACTOME_DEADENYLATION_DEPENDENT_MRN A_DECAY	44	Down	0.00789295	0.054008812
692	WUNDER_INFLAMMATORY_RESPONSE_AND_CH OLESTEROL_UP	34	Up	0.007898431	0.054008812
693	REACTOME_NRIF_SIGNALS_CELL_DEATH_FROM_ THE_NUCLEUS	13	Up	0.007999331	0.054619708
694	ZHANG_RESPONSE_TO_IKK_INHIBITOR_AND_TNF _UP	173	Up	0.008126676	0.05539195
695	FARMER_BREAST_CANCER_CLUSTER_3	14	Up	0.008135876	0.05539195
696	REACTOME_REGULATORY_RNA_PATHWAYS	24	Down	0.008168282	0.055405442
697	KEGG_PROGESTERONE_MEDIATED_OOCYTE_MA TURATION	74	Down	0.008172519	0.055405442
698	CERVERA_SDHB_TARGETS_1_UP	84	Up	0.008173036	0.055405442

	A	B	C	D	E
699	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPH OLIPIDS_BLUE_UP	125	Up	8.19E-03	5.55E-02
700	WINZEN_DEGRADED_VIA_KHSRP	78	Up	8.32E-03	5.62E-02
701	KEGG_FOCAL_ADHESION	173	Up	0.008341389	0.056304377
702	LABBE_TARGETS_OF_TGFB1_AND_WNT3A_DN	75	Up	0.008376856	0.056463118
703	KEGG_GLYCOSAMINOGLYCAN_DEGRADATION	18	Up	0.008509287	0.057274048
704	HARRIS_HYPOXIA	65	Up	0.008604943	0.057835497
705	REACTOME_LIPID_DIGESTION_MOBILIZATION_AN D_TRANSPORT	23	Up	0.008665583	0.058121229
706	TORCHIA_TARGETS_OF_EWSR1_FLI1_FUSION_T OP20_DN	14	Up	0.00867896	0.058121229
707	DORN_ADENOVIRUS_INFECTION_24HR_DN	40	Up	0.00868794	0.058121229
708	KEGG_O_GLYCAN_BIOSYNTHESIS	21	Up	0.008696658	0.058121229
709	KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_UP	858	Up	0.008814279	0.058824111
710	ZHONG_SECRETOME_OF_LUNG_CANCER_AND_FI BROBLAST	115	Up	0.008848801	0.058971208
711	SMID_BREAST_CANCER_RELAPSE_IN_LIVER_DN	8	Up	0.008970676	0.059699217
712	ENGELMANN_CANCER_PROGENITORS_UP	41	Up	0.008989883	0.059728024
713	FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECT ED_VS_OK_UP	52	Up	0.009006905	0.059728024
714	GENTILE_UV_RESPONSE_CLUSTER_D5	35	Up	0.009023958	0.059728024
715	WEIGEL_OXIDATIVE_STRESS_BY_TBH_AND_H2O2	31	Up	0.009035256	0.059728024
716	ROZANOV_MMP14_TARGETS_SUBSET	29	Up	0.009038209	0.059728024
717	YAO_TEMPORAL_RESPONSE_TO_PROGESTERON E_CLUSTER_2	67	Down	0.009100539	0.060055929
718	AMIT_SERUM_RESPONSE_120_MCF10A	59	Up	0.00912698	0.060146419
719	RANKIN_ANGIOGENIC_TARGETS_OF_VHL_HIF2A_ DN	6	Up	0.009158664	0.060271151
720	DASU_IL6_SIGNALING_SCAR_DN	15	Up	0.009310489	0.061185065
721	REACTOME_FACILITATIVE_NA_INDEPENDENT_GL UCOSE_TRANSPORTERS	8	Up	0.009328511	0.061218354

	A	B	C	D	E
722	KEGG_ADIPOCYTOKINE_SIGNALING_PATHWAY	54	Up	0.009360611	0.061343811
723	TRAYNOR_RETT_SYNDROM_UP	31	Up	0.009377192	0.061367357
724	PID_HIF2PATHWAY	33	Up	0.009400484	0.061434698
725	GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_UP	161	Down	0.009435662	0.061579425
726	CHANDRAN_METASTASIS_TOP50_UP	36	Down	0.009476961	0.06169568
727	LE_EGR2_TARGETS_UP	106	Down	0.00947959	0.06169568
728	WU_CELL_MIGRATION	155	Up	0.009503423	0.061765713
729	REACTOME_LATENT_INFECTION_OF_HOMO_SAPIENS_WITH_MYCOBACTERIUM_TUBERCULOSIS	22	Up	0.009672407	0.06277764
730	YANG_MUC2_TARGETS_DUODENUM_3MO_DN	15	Up	0.009740909	0.06313552
731	HOOI_ST7_TARGETS_UP	79	Up	0.009768045	0.063224674
732	REACTOME_NOTCH1_INTRACELLULAR_DOMAIN_REGULATES_TRANSCRIPTION	42	Down	0.009866779	0.063776376
733	LIM_MAMMARY_STEM_CELL_UP	426	Up	0.009927637	0.064025759
734	INGRAM_SHH_TARGETS_UP	94	Up	0.009932462	0.064025759
735	SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX1_UP	13	Up	0.010002993	0.064355325
736	WALLACE_PROSTATE_CANCER_RACE_UP	158	Up	0.010010828	0.064355325
737	RASHI_RESPONSE_TO_IONIZING_RADIATION_2	113	Up	0.010041881	0.064407643
738	BIOCARTA_DEATH_PATHWAY	29	Up	0.010046229	0.064407643
739	BASSO_HAIRY_CELL_LEUKEMIA_DN	69	Up	0.01021024	0.065370441
740	HOFFMANN_IMMATURE_TO_MATURE_B_LYMPHOCYTE_UP	33	Up	1.03E-02	6.56E-02
741	KIM_GLIS2_TARGETS_UP	60	Up	1.03E-02	6.57E-02
742	BOYLAN_MULTIPLE_MYELOMA_C_UP	42	Down	0.010310525	0.065745251
743	SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_DN	72	Up	0.010349906	0.065907422
744	SERVITJA_ISLET_HNF1A_TARGETS_UP	124	Up	0.010438424	0.066381634
745	GENTILE_UV_RESPONSE_CLUSTER_D1	18	Up	0.010511455	0.066756216
746	LY_AGING_MIDDLE_UP	4	Down	0.010581137	0.067108551

	A	B	C	D	E
747	REACTOME_PPARA_ACTIVATES_GENE_EXPRESSION	90	Up	0.01059619	0.06711394
748	REACTOME_CYCLIN_A_B1_ASSOCIATED_EVENTS_DURING_G2_M_TRANSITION	15	Down	0.010665002	0.067459352
749	DORSAM_HOXA9_TARGETS_DN	28	Up	0.010705789	0.067626809
750	HINATA_NFKB_TARGETS_FIBROBLAST_UP	66	Up	0.010837212	0.068365592
751	TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_UP	151	Up	0.010933516	0.068881151
752	MAYBURD_RESPONSE_TO_L663536_UP	27	Up	0.010976285	0.06898835
753	ALCALAY_AML_BY_NPM1_LOCALIZATION_UP	102	Up	0.010979733	0.06898835
754	MILI_PSEUDOPODIA	42	Up	0.010995772	0.068997373
755	LEE_LIVER_CANCER_DENA_DN	41	Up	0.01101095	0.069000981
756	JACKSON_DNMT1_TARGETS_DN	22	Up	0.011109238	0.069524701
757	PID_FRA_PATHWAY	28	Up	0.011129793	0.069561209
758	PID_MYC_REPRESS_PATHWAY	55	Up	0.011238228	0.070146138
759	HESS_TARGETS_OF_HOXA9_AND_MEIS1_DN	46	Up	0.011255983	0.070164275
760	REACTOME_ACTIVATION_OF_THE_MRNA_UPON_BINDING_OF_THE_CAP_BINDING_COMPLEX_AND_EIFS_AND_SUBSEQUENT_BINDING_TO_43S	55	Down	0.011382917	0.070862031
761	TAKAO_RESPONSE_TO_UVB_RADIATION_DN	93	Up	0.011480955	0.071378305
762	KLEIN_PRIMARY EFFUSION_LYMPHOMA_DN	47	Up	0.011579385	0.071895657
763	HECKER_IFNB1_TARGETS	43	Up	0.011811175	0.07322362
764	FRASOR_TAMOXIFEN_RESPONSE_UP	45	Up	0.011824259	0.07322362
765	TSENG_ADIPOGENIC_POTENTIAL_UP	26	Up	0.011851511	0.073296322
766	GAVIN_FOXP3_TARGETS_CLUSTER_P4	74	Up	0.011874335	0.073341481
767	MARSON_FOXP3_TARGETS_STIMULATED_UP	16	Up	0.011889919	0.073341864
768	CHIANG_LIVER_CANCER_SUBCLASS_POLYSOMY7_DN	20	Up	0.011925378	0.073464679
769	REACTOME_SIGNALING_BY_FGFR_MUTANTS	33	Down	0.011980329	0.073707104
770	IVANOVSKA_MIR106B_TARGETS	89	Up	0.012020594	0.073858654

	A	B	C	D	E
771	GAUSSMANN_MLL_AF4_FUSION_TARGETS_E_D N	18	Up	0.012047012	0.073924843
772	HIRSCH_CELLULAR_TRANSFORMATION_SIGNATU RE_DN	95	Up	0.01208519	0.074062932
773	KAPOSI_LIVER_CANCER_MET_UP	17	Up	0.012176992	0.074528868
774	NAKAMURA_CANCER_MICROENVIRONMENT_DN	45	Up	0.012212436	0.07464911
775	MORI_IMMATURE_B_LYMPHOCYTE_DN	87	Down	0.012242846	0.074667816
776	HOFMANN_MYELODYSPLASTIC_SYNDROM_RISK_ UP	20	Up	0.012247102	0.074667816
777	HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPH OCYTE_UP	155	Down	0.012305136	0.07492496
778	WACKER_HYPOXIA_TARGETS_OF_VHL	12	Up	0.01235905	0.075144588
779	FRIDMAN_IMMORTALIZATION_DN	30	Up	0.012373014	0.075144588
780	SARTIPY_BLUNTED_BY_INSULIN_RESISTANCE_UP	17	Up	0.012466255	0.075613677
781	ALFANO_MYC_TARGETS	218	Up	1.25E-02	7.58E-02
782	REACTOME_PHASE_II_CONJUGATION	39	Up	1.26E-02	7.61E-02
783	PUJANA_XPRSS_INT_NETWORK	165	Down	0.012606781	0.076172688
784	CAIRO_HEPATOBLASTOMA_UP	193	Up	0.012669285	0.076452584
785	ZHANG_RESPONSE_TO_CANTHARIDIN_UP	17	Up	0.012703023	0.076558398
786	VARELA_ZMPSTE24_TARGETS_DN	27	Up	0.012751675	0.076589578
787	SESTO_RESPONSE_TO_UV_C8	68	Up	0.012751921	0.076589578
788	BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_DN	43	Up	0.012761112	0.076589578
789	SHIN_B_CELL_LYMPHOMA_CLUSTER_7	26	Down	0.012773034	0.076589578
790	KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUM BER_CORR_DN	22	Up	0.012814385	0.076740136
791	MARTENS_TRETINOIN_RESPONSE_UP	386	Down	0.012854981	0.076885802
792	MARSON_BOUND_BY_E2F4_UNSTIMULATED	683	Down	0.012918714	0.077169307
793	ZHOU_INFLAMMATORY_RESPONSE_LIVE_UP	348	Up	0.012970508	0.077344622
794	KEGG_VIBRIO_CHOLERAE_INFECTION	49	Up	0.012980801	0.077344622

	A	B	C	D	E
795	WHITEFORD_PEDIATRIC_CANCER_MARKERS	113	Down	0.013025115	0.077493346
796	LE_SKI_TARGETS_DN	7	Up	0.013038563	0.077493346
797	JECHLINGER_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_UP	54	Up	0.013103595	0.07774503
798	XU_RESPONSE_TO_TRETINOIN_AND_NSC682994_UP	15	Up	0.01312645	0.07774503
799	REACTOME_MITOTIC_M_M_G1_PHASES	165	Down	0.013130272	0.07774503
800	REACTOME_METABOLISM_OF_PORPHYRINS	12	Up	0.013168179	0.077871899
801	MEINHOLD_OVARIAN_CANCER_LOW_GRADE_UP	16	Up	0.013210087	0.078022076
802	KATSANOUELAVL1_TARGETS_UP	122	Up	0.013387436	0.078970829
803	JOHANSSON_GLIOMAGENESIS_BY_PDGF_UP	56	Up	0.013464341	0.07919368
804	TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_DUCTAL_NORMAL_DN	142	Up	0.013480095	0.07919368
805	WILLIAMS_ESR1_TARGETS_UP	23	Down	0.013497192	0.07919368
806	SEKI_INFLAMMATORY_RESPONSE_LPS_UP	54	Up	0.013497489	0.07919368
807	KIM_PTEN_TARGETS_UP	16	Up	0.013510384	0.07919368
808	DORSEY_GAB2_TARGETS	21	Up	0.013525778	0.07919368
809	LIU_SMARCA4_TARGETS	43	Up	0.013567386	0.079324581
810	SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_2FC_DN	15	Up	0.013581711	0.079324581
811	REACTOME_MRNA_CAPPING	26	Down	0.013606517	0.07937135
812	GEISS_RESPONSE_TO_DSRNA_DN	13	Up	0.01363213	0.079422703
813	ZWANG_EGF_INTERVAL_UP	62	Up	0.013666539	0.07952512
814	KRIEG_KDM3A_TARGETS_NOT_HYPOXIA	169	Up	0.013795582	0.080177273
815	KIM_HYPOXIA	23	Up	0.013823042	0.080187966
816	BOYVAULT_LIVER_CANCER_SUBCLASS_G5_DN	23	Up	0.013831363	0.080187966
817	WIKMAN_ASBESTOS_LUNG_CANCER_UP	16	Up	0.013937624	0.080704991
818	TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_16D_DN	93	Up	0.014001184	0.080973799
819	MUELLER_COMMON_TARGETS_OF_AML_FUSIONS_UP	14	Down	0.014059304	0.081210529

	A	B	C	D	E
820	CHYLA_CBFA2T3_TARGETS_DN	185	Up	0.014097438	0.081331371
821	PELLICCIOTTA_HDAC_IN_ANTIGEN_PRESENTATIO N_UP	63	Up	0.014132378	0.081433519
822	LEE_LIVER_CANCER_MYC_E2F1_UP	40	Up	1.43E-02	8.23E-02
823	ABRAHAM_ALPC_VS_MULTIPLE_MYELOMA_UP	22	Up	1.43E-02	8.23E-02
824	MORI_MATURE_B_LYMPHOCYTE_UP	75	Up	0.014460512	0.082923552
825	VANLOO_SP3_TARGETS_DN	67	Up	0.014464921	0.082923552
826	LEI_MYB_TARGETS	273	Up	0.01448809	0.082923552
827	LIAN_LIPA_TARGETS_6M	30	Up	0.014496265	0.082923552
828	LEE_NEURAL_CREST_STEM_CELL_DN	102	Up	0.014670339	0.083784904
829	KEGG_SPLICEOSOME	125	Down	0.014685226	0.083784904
830	HE_PTEN_TARGETS_DN	7	Up	0.014700039	0.083784904
831	BIOCARTA_CERAMIDE_PATHWAY	21	Up	0.014956725	0.085020511
832	YAMASHITA_METHYLATED_IN_PROSTATE_CANCE R	33	Up	0.014957565	0.085020511
833	LENAOUR_DENDRITIC_CELL_MATURATION_UP	88	Up	0.014970807	0.085020511
834	REACTOME_GOLGI_ASSOCIATED_VESICLE_BIOGE NESIS	52	Up	0.015165453	0.086022527
835	MOSERLE_IFNA_RESPONSE	14	Up	0.015226739	0.086266596
836	DACOSTA_LOW_DOSE_UV_RESPONSE_VIA_ERCC 3_XPCS_DN	9	Up	0.015298555	0.086569669
837	TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_6 HR_UP	49	Up	0.015438012	0.087254314
838	SCHLESINGER_METHYLATED_DE_NOVO_IN_CANC ER	55	Down	0.015536796	0.087707719
839	CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATI ON_DN	101	Up	0.015596578	0.087940133
840	BIOCARTA_CTL_PATHWAY	4	Up	0.015615208	0.087940236
841	FARMER_BREAST_CANCER_BASAL_VS_LULMINAL	278	Up	0.015636598	0.087955866
842	LUI_THYROID_CANCER_CLUSTER_5	7	Up	0.016091984	0.09040978

	A	B	C	D	E
843	REACTOME_RECRUITMENT_OF_MITOTIC_CENTROSOME_PROTEINS_AND_COMPLEXES	63	Down	0.016184976	0.09082424
844	PUJANA_BRCA_CENTERED_NETWORK	117	Down	0.016243817	0.090928256
845	DORN_ADENOVIRUS_INFECTION_12HR_DN	29	Up	0.016262543	0.090928256
846	KEGG_NICOTINATE_AND_NICOTINAMIDE_METABOLISM	20	Up	0.016278247	0.090928256
847	BOYAUULT_LIVER_CANCER_SUBCLASS_G6_DN	16	Up	0.01629951	0.090928256
848	MASRI_RESISTANCE_TO_TAMOXIFEN_AND_AROMATASE_INHIBITORS_DN	15	Up	0.016299732	0.090928256
849	VECCHI_GASTRIC_CANCER_EARLY_UP	383	Down	0.016329847	0.09098883
850	VERHAAK_AML_WITH_NPM1_MUTATED_UP	99	Up	0.016418071	0.091335801
851	NAKAJIMA_MAST_CELL	32	Up	0.016430779	0.091335801
852	NIKOLSKY_BREAST_CANCER_8Q12_Q22_AMPLIFICATION	109	Up	0.016695493	0.092596496
853	BURTON_ADIPOGENESIS_6	158	Up	0.016696765	0.092596496
854	ZIRN_TRETINOIN_RESPONSE_WT1_UP	20	Up	0.016736226	0.092706527
855	CHICAS_RB1_TARGETS_SENESCENT	494	Up	0.01676327	0.092747599
856	LU_EZH2_TARGETS_DN	366	Up	0.01679739	0.092753815
857	YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_16	72	Up	0.016836017	0.092753815
858	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_MAGENTA_UP	27	Up	0.01685055	0.092753815
859	REACTOME_COLLAGEN_FORMATION	53	Up	0.016853818	0.092753815
860	MANALO_HYPOXIA_UP	193	Up	0.016862545	0.092753815
861	NGUYEN_NOTCH1_TARGETS_UP	26	Up	0.016886909	0.092779822
862	HERNANDEZ_MITOTIC_ARREST_BY_DOCETAXEL_2_DN	13	Up	0.016914364	0.09282273
863	LAMB_CCND1_TARGETS	17	Up	1.69E-02	9.28E-02
864	PARENT_MTOR_SIGNALING_DN	34	Up	1.70E-02	9.30E-02
865	INGA_TP53_TARGETS	15	Up	0.017090633	0.093464399
866	TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_10D_UP	120	Up	0.017264055	0.094303651

	A	B	C	D	E
867	REACTOME_VEGF_LIGAND_RECEPTOR_INTERACTIONS	9	Up	0.017438101	0.095144375
868	ST_DIFFERENTIATION_PATHWAY_IN_PC12_CELLS	39	Up	0.017492634	0.095331829
869	KEGG_JAK_STAT_SIGNALING_PATHWAY	84	Up	0.017559841	0.095587842
870	OUILLETTE_CLL_13Q14_DELETION_DN	51	Up	0.017590058	0.095642143
871	REACTOME_PROCESSING_OF_CAPPED_INTRONLESS_PRE_MRNA	23	Down	0.017643377	0.09582179
872	HASEGAWA_TUMORIGENESIS_BY_RET_C634R	10	Up	0.017690432	0.095967037
873	PEDERSEN_TARGETS_OF_611CTF_ISOFORM_OF_ERBB2	63	Up	0.017745786	0.096156927
874	MARCINIAK_ER_STRESS_RESPONSE_VIA_CHOP	22	Up	0.01781263	0.096408565
875	STEIN_ESRRA_TARGETS_RESPONSIVE_TO_ESTROGEN_DN	41	Up	0.017833338	0.096410437
876	REACTOME_ENOS_ACTIVATION_AND_REGULATION	18	Up	0.017871621	0.096506755
877	REACTOME_MICRORNA_MIRNA_BIOGENESIS	21	Down	0.018123101	0.097753025
878	OHGUCHI_LIVER_HNF4A_TARGETS_UP	30	Up	0.018161177	0.097773698
879	LEE_TARGETS_OF_PTCH1_AND_SUFU_DN	71	Up	0.018168319	0.097773698
880	ZHAN_MULTIPLE_MYELOMA_MS_UP	43	Up	0.018266446	0.098095922
881	PID_GLYPICAN_1PATHWAY	22	Up	0.018288685	0.098095922
882	ONO_FOXP3_TARGETS_UP	12	Up	0.018307404	0.098095922
883	REACTOME_APC_C_CDC20_MEDIATED_DEGRADATION_OF_CYCLIN_B	19	Down	0.018311239	0.098095922
884	PEDRIOLI_MIR31_TARGETS_DN	305	Up	0.018373746	0.098145079
885	KOYAMA_SEMA3B_TARGETS_UP	248	Up	0.018378132	0.098145079
886	REACTOME_OTHER_SEMAPHORIN_INTERACTIONS	13	Up	0.018382729	0.098145079
887	LUI_THYROID_CANCER_CLUSTER_4	10	Up	0.018480377	0.098555058
888	KEGG_BASAL_CELL_CARCINOMA	39	Down	0.018632398	0.099165977
889	ENK_UV_RESPONSE_EPIDERMIS_DN	447	Up	0.018650722	0.099165977
890	GNATENKO_PLATELET_SIGNATURE	40	Up	0.018657895	0.099165977

	A	B	C	D	E
891	DITTMER_PTHLH_TARGETS_UP	109	Up	0.01877639	0.099683644
892	REACTOME_DNA_REPLICATION	185	Down	0.018894203	0.100173683
893	REACTOME_MITOTIC_G2_G2_M_PHASES	78	Down	0.018911095	0.100173683
894	REACTOME_RNA_POL_II_TRANSCRIPTION	99	Down	0.018932345	0.100173943
895	FUJIWARA_PARK2_HEPATOCYTE_PROLIFERATION_UP	4	Up	0.019026393	0.100558958
896	ONKEN_UVEAL_MELANOMA_UP	745	Up	0.019151923	0.101109314
897	MODY_HIPPOCAMPUS_PRENATAL	40	Down	0.01919326	0.101214456
898	ZHANG_TARGETS_OF_EWSR1_FLI1_FUSION	78	Up	0.019231736	0.101304294
899	RHODES_CANCER_META_SIGNATURE	63	Down	0.019403958	0.102097664
900	GAVIN_PDE3B_TARGETS	12	Up	0.019517559	0.102581162
901	REACTOME_CELL_SURFACE_INTERACTIONS_AT_T HE_VASCULAR_WALL	57	Up	0.019802054	0.103960785
902	GHANDHI_BYSTANDER_IRRADIATION_UP	55	Up	0.019862126	0.104160429
903	YAO_TEMPORAL_RESPONSE_TO_PROGESTERON E_CLUSTER_12	72	Up	0.020015846	0.104850192
904	BIOCARTA_DREAM_PATHWAY	12	Up	2.02E-02	1.06E-01
905	KYNG_NORMAL_AGING_DN	26	Up	2.04E-02	1.07E-01
906	LOPEZ_MESOTHELIOMA_SURVIVAL_UP	9	Up	0.020613873	0.107624919
907	PID_EPHB_FWD_PATHWAY	39	Down	0.020641946	0.107652533
908	ALONSO_METASTASIS_UP	179	Up	0.020695725	0.107803149
909	MILI_PSEUDOPODIA_CHEMOTAXIS_UP	71	Up	0.020716457	0.107803149
910	REACTOME_RECRUITMENT_OF_NUMA_TO_MITO TIC_CENTROSOMES	10	Down	0.020828885	0.107973313
911	TAGHAVI_NEOPLASTIC_TRANSFORMATION	12	Up	0.020830716	0.107973313
912	FRIDMAN_SENESCENCE_DN	10	Down	0.020849138	0.107973313
913	REACTOME_VIRAL_MESSENGER_RNA_SYNTHESIS	13	Down	0.020853543	0.107973313
914	BRUNEAU_HEART_GREAT_VESSELS_AND_VALVU LOGENESIS	5	Down	0.020867555	0.107973313
915	BIOCARTA_ARENRF2_PATHWAY	13	Up	0.020886266	0.107973313
916	GERHOLD_RESPONSE_TO_TZD_DN	9	Up	0.021041673	0.108657822

	A	B	C	D	E
917	LIAN_LIPA_TARGETS_3M	22	Up	0.021305323	0.109899184
918	DER_IFN_ALPHA_RESPONSE_DN	5	Down	0.021346418	0.109991087
919	BOYALT_LIVER_CANCER_SUBCLASS_G12_DN	9	Up	0.021431429	0.110308825
920	KUROZUMI_RESPONSE_TO_ONCOCYTIC_VIRUS	12	Up	0.021516616	0.110618812
921	WILCOX_RESPONSE_TO_PROGESTERONE_DN	50	Up	0.021538478	0.110618812
922	NIKOLSKY_BREAST_CANCER_14Q22_AMPLICON	13	Up	0.021650699	0.111074434
923	MELLMAN_TUT1_TARGETS_DN	47	Up	0.021681871	0.111113712
924	ROY_WOUND_BLOOD_VESSEL_UP	40	Up	0.021833638	0.111770249
925	FREDERICK_PRKCI_TARGETS	6	Down	0.021965687	0.11227011
926	SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM1	196	Up	0.021978805	0.11227011
927	KONDO_EZH2_TARGETS	181	Up	0.022066355	0.1125956
928	PUJANA_BRCA2_PCC_NETWORK	395	Down	0.02209295	0.112609697
929	KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_DN	291	Up	0.022182665	0.112945143
930	HAHTOLA_SEZARY_SYNDROM_DN	20	Up	0.022318844	0.113399168
931	REACTOME_ENDOGENOUS_STEROLS	6	Up	0.022319836	0.113399168
932	SA_MMP_CYTOKINE_CONNECTION	9	Up	0.0223585	0.113473592
933	CONCANNON_APOPTOSIS_BY_EPOXOMICIN_DN	150	Down	0.022419577	0.113661484
934	PID_CD40_PATHWAY	26	Up	0.022455523	0.1137217
935	FUKUSHIMA_TNFSF11_TARGETS	15	Down	0.022499222	0.113821011
936	BENPORATH_NOS_TARGETS	171	Down	0.022670788	0.114566281
937	BURTON_ADIPOGENESIS_12	36	Down	0.022759162	0.114890003
938	KEGG_STEROID_HORMONE_BIOSYNTHESIS	16	Up	0.022796175	0.11495403
939	CHEN_METABOLIC_SYNDROM_NETWORK	930	Up	0.022824041	0.114971847
940	PID_CERAMIDE_PATHWAY	43	Up	0.022934475	0.115405108
941	GOTTWEIN_TARGETS_OF_KSHV_MIR_K12_11	57	Up	0.022997476	0.115599014
942	MCBRYAN_PUBERTAL_BREAST_3_4WK_UP	174	Up	0.023025105	0.115605977
943	GRAHAM_CML_QUIESCENT_VS_CML_DIVIDING_UP	12	Up	0.023047795	0.115605977
944	JAATINEN_HEMATOPOIETIC_STEM_CELL_DN	103	Up	0.02317817	0.116136642
945	LEE_AGING_MUSCLE_DN	39	Up	2.33E-02	1.16E-01
946	HOSHIDA_LIVER_CANCER_SURVIVAL_DN	89	Up	2.33E-02	1.16E-01

	A	B	C	D	E
947	REACTOME_CYTOCHROME_P450_ARRANGED_BY _SUBSTRATE_TYPE	17	Up	0.023316298	0.116458253
948	WANG_METASTASIS_OF_BREAST_CANCER_ESR1 _UP	22	Down	0.023402168	0.116763721
949	VALK_AML_CLUSTER_12	23	Up	0.023470932	0.116983286
950	LEE_METASTASIS_AND_RNA_PROCESSING_UP	17	Down	0.023572068	0.117363564
951	YANG_BREAST_CANCER_ESR1_BULK_UP	24	Up	0.023693616	0.117844566
952	RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_ MODERATELY_DN	73	Up	0.023799484	0.118170578
953	BIOCARTA_IL10_PATHWAY	12	Up	0.023809183	0.118170578
954	FAELT_B_CLL_WITH_VH_REARRANGEMENTS_UP	43	Up	0.02392832	0.118637262
955	NIKOLSKY_BREAST_CANCER_20Q12_Q13_AMPLIC ON	106	Down	0.024041734	0.119074628
956	SUZUKI_CTCFL_TARGETS_UP	7	Up	0.024113565	0.119305336
957	PLASARI_NFIC_TARGETS_BASAL_UP	20	Up	0.024151792	0.119369474
958	PAL_PRMT5_TARGETS_DN	18	Up	0.024230879	0.119635219
959	ZHANG_TLX_TARGETS_36HR_UP	204	Up	0.024285073	0.119777631
960	KEGG_CIRCADIAN_RHYTHM_MAMMAL	13	Up	0.024548351	0.120940969
961	MOTAMED_RESPONSE_TO_ANDROGEN_DN	6	Up	0.024572133	0.120940969
962	KIM_MYCN_AMPLIFICATION_TARGETS_DN	96	Up	0.024801968	0.121945161
963	VANTVEER_BREAST_CANCER_ESR1_DN	203	Up	0.024840923	0.121971633
964	TOMLINS_METASTASIS_DN	18	Up	0.02485898	0.121971633
965	GAVIN_IL2_RESPONSIVE_FOXP3_TARGETS_UP	13	Up	0.024916931	0.122129147
966	SCIAN_INVERSED_TARGETS_OF_TP53_AND_TP73 _DN	29	Up	0.025105275	0.122924791
967	BIOCARTA_RANKL_PATHWAY	13	Up	0.025156633	0.123048747
968	LEE_LIVER_CANCER_DENA_UP	41	Up	0.025362575	0.123927786
969	PID_INTEGRIN1_PATHWAY	55	Up	0.025456776	0.124259574
970	CHENG_IMPRINTED_BY ESTRADIOL	87	Down	0.025562921	0.124648918
971	DAVICIONI_RHABDOMYOSARCOMA_PAX_FOXO1_ FUSION_DN	13	Up	0.02562331	0.124814578

	A	B	C	D	E
972	LEIN_MEDULLA_MARKERS	60	Up	0.025739512	0.125251485
973	STEARMAN_TUMOR_FIELD_EFFECT_UP	21	Up	0.025775818	0.125299114
974	VERRECCHIA_RESPONSE_TO_TGFB1_C3	14	Up	0.025814162	0.125356543
975	TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_6 HR_DN	31	Up	0.026009288	0.126174422
976	BAKER_HEMATOPOESIS_STAT1_TARGETS	8	Up	0.026095269	0.126416459
977	AMIT_EGF_RESPONSE_20_HELA	10	Up	0.026112691	0.126416459
978	REACTOME_APC_C_CDC20_MEDIATED_DEGRADA TION_OF_MITOTIC_PROTEINS	64	Down	0.026170722	0.126567719
979	REACTOME_HDL_MEDIATED_LIPID_TRANSPORT	7	Up	0.026313822	0.127011808
980	REACTOME_IL_6_SIGNALING	9	Up	0.026316309	0.127011808
981	REACTOME_SYNTHESIS_OF_PC	16	Up	0.026352667	0.1270575
982	SIMBULAN_UV_RESPONSE_IMMORTALIZED_DN	29	Up	0.026524664	0.12773168
983	BIOCARTA_AGPCR_PATHWAY	11	Up	0.026546563	0.12773168
984	WOOD_EBV_EBNA1_TARGETS_UP	101	Up	0.026724189	0.128367793
985	ODONNELL_TARGETS_OF_MYC_AND_TFRC_DN	43	Down	0.026733102	0.128367793
986	BIOCARTA_CARM_ER_PATHWAY	32	Down	2.72E-02	1.30E-01
987	BREDEMEYER_RAG_SIGNALING_VIA_ATM_NOT_ VIA_NFKB_UP	40	Up	2.74E-02	1.31E-01
988	WINTER_HYPOXIA_METAGENE	212	Up	0.027444677	0.13138409
989	DAVICIONI_TARGETS_OF_PAX_FOXO1_FUSIONS_ DN	57	Up	0.02754551	0.131733334
990	GRUETZMANN_PANCREATIC_CANCER_UP	306	Up	0.027757702	0.132588225
991	RASHI_RESPONSE_TO_IONIZING_RADIATION_1	35	Up	0.02778039	0.132588225
992	SEITZ_NEOPLASTIC_TRANSFORMATION_BY_8P_D ELETION_UP	51	Up	0.027922037	0.133129793
993	PUIFFE_INVASION_INHIBITED_BY_ASCITES_DN	134	Up	0.028259205	0.134601557
994	PID_SYNDECAN_2_PATHWAY	29	Up	0.028311505	0.134714864
995	MIKKELSEN_IPS_ICP_WITH_H3K27ME3	21	Down	0.028340876	0.134718955
996	VERRECCHIA_EARLY_RESPONSE_TO_TGFB1	55	Up	0.028406241	0.134893956
997	FOSTER_KDM1A_TARGETS_UP	147	Up	0.028502206	0.13521378
998	PID_FAK_PATHWAY	58	Up	0.028577077	0.135392153

	A	B	C	D	E
999	KEGG_PRION_DISEASES	22	Up	0.028597115	0.135392153
1000	BRUINS_UVC_RESPONSE_LATE	1028	Up	0.028648672	0.135500475
1001	REACTOME_FORMATION_OF_THE_TERNARY_COMPLEX_AND_SUBSEQUENTLY_THE_43S_COMPLEX	47	Down	0.028714726	0.135677082
1002	PID_AMB2_NEUTROPHILS_PATHWAY	32	Up	0.028746599	0.135691987
1003	BIOCARTA_AMI_PATHWAY	11	Up	0.02885379	0.135982632
1004	RUIZ_TNC_TARGETS_DN	136	Up	0.028889407	0.135982632
1005	LEE_LIVER_CANCER_MYC_UP	45	Up	0.028894511	0.135982632
1006	EPPERT_HSC_R	100	Up	0.029084457	0.136612855
1007	BOHN_PRIMARY_IMMUNODEFICIENCY_SYNDROME_DN	31	Up	0.02908625	0.136612855
1008	DAZARD_UV_RESPONSE_CLUSTER_G28	14	Up	0.029121738	0.136643707
1009	VERHAAK_AML_WITH_NPM1_MUTATED_DN	176	Up	0.029336398	0.137514365
1010	SMID_BREAST_CANCER_BASAL_UP	514	Up	0.029603511	0.138628927
1011	TIEN_INTESTINE_PROBIOTICS_6HR_UP	53	Up	0.030139751	0.141000319
1012	BURTON_ADIPOGENESIS_7	45	Up	0.030253908	0.141394377
1013	REACTOME_PACKAGING_OF_TELOMERE_ENDS	25	Down	0.030336732	0.141641364
1014	KEGG_GLYCEROPHOSPHOLIPID_METABOLISM	62	Up	0.030382865	0.14171672
1015	GRAHAM_NORMAL QUIESCENT VS NORMAL DIVIDING_DN	80	Down	0.030803546	0.143314358
1016	REACTOME_RECEPTOR_LIGAND_BINDING_INITIATES_THE_SECOND_PROTEOLYTIC_CLEAVAGE_OF_NOTCH_RECEPTOR	10	Down	0.030812046	0.143314358
1017	WANG_RESPONSE_TO_BEXAROTENE_DN	20	Up	0.030816378	0.143314358
1018	WANG_CISPLATIN_RESPONSE_AND_XPC_UP	158	Up	0.030898554	0.143549064
1019	SCIAN_INVERSED_TARGETS_OF_TP53_AND_TP73_UP	7	Up	0.030927608	0.143549064
1020	MIKKELSEN_MEF_LCP_WITH_H3K4ME3	83	Up	0.031244565	0.144740343
1021	SHIPP_DLCL VS FOLLICULAR LYMPHOMA_UP	43	Down	0.031245534	0.144740343
1022	RICKMAN_HEAD_AND_NECK_CANCER_D	9	Up	0.031328351	0.144981839
1023	REACTOME_TRANSCRIPTION	168	Down	0.031387367	0.145112829

	A	B	C	D	E
1024	PELLICCIOTTA_HDAC_IN_ANTIGEN_PRESENTATIO N_DN	47	Up	0.03146757	0.145341417
1025	BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_AN D_PAX3	5	Up	0.031524635	0.145462794
1026	PID_S1P_S1P3_PATHWAY	27	Up	0.031624707	0.145782184
1027	PID_HIF1_TFPATHWAY	58	Up	3.21E-02	1.47E-01
1028	RHODES_UNDIFFERENTIATED_CANCER	67	Down	3.21E-02	1.47E-01
1029	MCCOLLUM_GELDANAMYCIN_RESISTANCE_DN	6	Down	0.032111365	0.147482294
1030	DAZARD_UV_RESPONSE_CLUSTER_G2	24	Up	0.032118366	0.147482294
1031	HUANG_GATA2_TARGETS_UP	110	Up	0.032730844	0.150148774
1032	HOSHIDA_LIVER_CANCER_SUBCLASS_S3	187	Up	0.032954264	0.151027058
1033	CAFFAREL_RESPONSE_TO_THC_UP	31	Up	0.032994134	0.151063261
1034	DURAND_STROMA_NS_UP	137	Up	0.033207527	0.151757729
1035	CERVERA_SDHB_TARGETS_2	84	Up	0.033218535	0.151757729
1036	REACTOME_EXTRACELLULAR_MATRIX_ORGANIZA TION	67	Up	0.033242169	0.151757729
1037	WENG_POR_TARGETS_LIVER_DN	13	Up	0.033319869	0.151965618
1038	MILI_PSEUDOPODIA_HAPTOTAXIS_DN	648	Up	0.03351933	0.152727901
1039	AMUNDSON_POOR_SURVIVAL_AFTER_GAMMA_ RADIATION_2G	155	Up	0.033800436	0.153860366
1040	TIEN_INTESTINE_PROBIOTICS_24HR_UP	542	Up	0.033855764	0.153875317
1041	XU_RESPONSE_TO_TRETINOIN_UP	13	Up	0.033868853	0.153875317
1042	RAMASWAMY_METASTASIS_UP	63	Down	0.034082426	0.154321786
1043	RICKMAN_HEAD_AND_NECK_CANCER_E	33	Up	0.03410041	0.154321786
1044	BOYLAN_MULTIPLE_MYELOMA_C_D_DN	161	Up	0.034104622	0.154321786
1045	MOOTHA_VOXPHOS	84	Down	0.034129293	0.154321786
1046	NAKAMURA_TUMOR_ZONE_PERIPHERAL_VS_CE NTRAL_UP	262	Up	0.034132553	0.154321786
1047	BIOCARTA_PTC1_PATHWAY	10	Down	0.034163087	0.154321786
1048	VICENT_METASTASIS_UP	13	Up	0.034226282	0.154459581
1049	ONKEN_UVEAL_MELANOMA_DN	494	Up	0.034295168	0.154622777

	A	B	C	D	E
1050	REACTOME_PHOSPHORYLATION_OF_THE_APC_C	17	Down	0.034341071	0.154682137
1051	CHAUHAN_RESPONSE_TO_METHOXYESTRADIOL_UP	49	Up	0.034389641	0.154753386
1052	TSUTSUMI_FBXW8_TARGETS	7	Down	0.034490164	0.155058064
1053	TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_NORMAL_DN	58	Up	0.034824137	0.156410689
1054	LANDIS_ERBB2_BREAST_PRENEOPLASTIC_UP	16	Up	0.034903818	0.156619695
1055	TIEN_INTESTINE_PROBIOTICS_6HR_DN	161	Up	0.035182276	0.157719408
1056	GAUSSMANN_MLL_AF4_FUSION_TARGETS_A_D_N	70	Up	0.035629922	0.159501261
1057	DAZARD_RESPONSE_TO_UV_SCC_UP	109	Up	0.035647266	0.159501261
1058	CHEN_HOXA5_TARGETS_6HR_UP	9	Up	0.035787734	0.15997828
1059	STARK_HYPPOCAMPUS_22Q11_DELETION_UP	50	Up	0.03603493	0.160847129
1060	ST_PAC1_RECEPTOR_PATHWAY	4	Up	0.036050182	0.160847129
1061	MARSON_FOXP3_TARGETS_DN	43	Up	0.036403236	0.16226914
1062	NIELSEN_LIPOSARCOMA_UP	12	Down	0.036459764	0.162367939
1063	PID_PI3KCI_PATHWAY	38	Down	0.036531099	0.162532431
1064	CROMER_METASTASIS_UP	72	Up	0.036699501	0.163128072
1065	THUM_SYSTOLIC_HEART_FAILURE_UP	314	Up	0.03681685	0.163495882
1066	GENTILE_UV_RESPONSE_CLUSTER_D8	39	Up	0.036991011	0.164115048
1067	WINTER_HYPOXIA_DN	32	Up	0.037116655	0.164410401
1068	HASLINGER_B_CLL_WITH_13Q14_DELETION	24	Up	3.71E-02	1.64E-01
1069	PLASARI_TGFB1_SIGNALING_VIA_NFIC_10HR_UP	42	Up	3.72E-02	1.64E-01
1070	GU_PDEF_TARGETS_UP	64	Up	0.037273537	0.164749731
1071	PID_VEGF_VEGFR_PATHWAY	9	Up	0.03745674	0.165404762
1072	MARKEY_RB1_CHRONIC_LOF_DN	80	Up	0.037591441	0.165844592
1073	ABBUD_LIF_SIGNALING_1_UP	31	Up	0.037837016	0.166772295
1074	HASINA_NOL7_TARGETS_DN	13	Up	0.037926183	0.16700952
1075	NUYTEN_NIPP1_TARGETS_DN	779	Up	0.038084582	0.167550883
1076	ZHANG_TLX_TARGETS_36HR_DN	182	Down	0.038433016	0.168926514

	A	B	C	D	E
1077	IM_SREBF1A_TARGETS	5	Up	0.038731121	0.170068539
1078	FORTSCHEGGER_PHF8_TARGETS_UP	234	Up	0.038764829	0.170068539
1079	PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN	11	Down	0.038809681	0.170107367
1080	REACTOME_PROCESSING_OF_INTRONLESS_PRE_MRNAS	14	Down	0.038903683	0.170361353
1081	REACTOME_CIRCADIAN_REPRESSION_OF_EXPRESSION_BY_REV_ERBA	22	Down	0.038981076	0.170440509
1082	MIKKELSEN_MCV6_LCP_WITH_H3K4ME3	95	Up	0.038993903	0.170440509
1083	WANG_METASTASIS_OF_BREAST_CANCER_ESR1_DN	23	Up	0.03930664	0.171648682
1084	KEGG_PEROXISOME	70	Up	0.039392139	0.171737643
1085	SCHLOSSER_MYC_AND_SERUM_RESPONSE_SYNERGY	32	Down	0.039399705	0.171737643
1086	LI_WILMS_TUMOR_VS_FETAL_KIDNEY_2_DN	46	Up	0.03945988	0.171841414
1087	SCHRAETS_MLL_TARGETS_UP	27	Up	0.03956276	0.172005961
1088	REACTOME_LOSS_OF_NLP_FROM_MITOTIC_CENTROSOMES	56	Down	0.03960488	0.172005961
1089	REACTOME_UNBLOCKING_OF_NMDA_RECEPTOR_Glutamate_Binding_and_Activation	11	Down	0.039666331	0.172005961
1090	CASORELLI_ACUTE_PROMYELOCYTIC_LEUKEMIA_DN	626	Up	0.039676833	0.172005961
1091	MORI_PLASMA_CELL_DN	25	Up	0.039679682	0.172005961
1092	KEGG_GLYCOSPHINGOLIPID_BIOSYNTHESIS_GLOBOSERIES	14	Up	0.03976505	0.172218021
1093	REACTOME_SIGNALING_BY_FGFR1_FUSION_MUTANTS	18	Down	0.039950357	0.172862121
1094	SANA_TNF_SIGNALING_UP	58	Up	0.040176001	0.173572042
1095	ASTIER_INTEGRIN_SIGNALING	51	Up	0.040221944	0.173572042
1096	GAVIN_FOXP3_TARGETS_CLUSTER_T4	83	Up	0.040224632	0.173572042
1097	SCHAEFFER_SOX9_TARGETS_IN_PROSTATE_DEVELOPMENT_DN	40	Down	0.040369784	0.174039442

	A	B	C	D	E
1098	LANDIS_ERBB2_BREAST_TUMORS_324_UP	140	Up	0.040426365	0.174124498
1099	ONGUSAHA_TP53_TARGETS	31	Up	0.040531822	0.174382214
1100	ST_INTERLEUKIN_4_PATHWAY	21	Up	0.040560011	0.174382214
1101	CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_CDC25_UP	50	Up	0.040682418	0.174483565
1102	MOOTHA_GLYCOLYSIS	17	Down	0.040768219	0.174483565
1103	TING_SILENCED_BY_DICER	22	Up	0.040793422	0.174483565
1104	REACTOME_SIGNALING_BY_FGFR1_MUTANTS	22	Down	0.040822521	0.174483565
1105	JIANG_AGING_CEREBRAL_CORTEX_DN	48	Down	0.040828954	0.174483565
1106	REN_BOUND_BY_E2F	60	Down	0.040839175	0.174483565
1107	BIOCARTA_G2_PATHWAY	24	Down	0.040842079	0.174483565
1108	NIELSEN_GIST_AND_SYNOVIAL_SARCOMA_DN	6	Up	0.040962944	0.174824766
1109	VETTER_TARGETS_OF_PRKCA_AND_ETS1_UP	14	Up	4.10E-02	1.75E-01
1110	PID_RHOA_REG_PATHWAY	45	Down	4.11E-02	1.75E-01
1111	GAURNIER_PSM4_TARGETS	31	Up	0.041160639	0.175210829
1112	KYNG_ENVIRONMENTAL_STRESS_RESPONSE_NOT_BY_GAMMA_IN_OLD	28	Up	0.04127209	0.175527116
1113	IVANOVA_HEMATOPOIESIS_INTERMEDIATE_PROGENITOR	138	Up	0.041325015	0.175594152
1114	LY_AGING_PREMATURE_DN	26	Down	0.041380232	0.175670795
1115	FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_UP	508	Up	0.041522175	0.176115151
1116	LINDGREN_BLADDER_CANCER_WITH_LOH_IN_CHR9Q	113	Up	0.041646496	0.176391801
1117	BIDUS_METASTASIS_UP	209	Down	0.041697758	0.176391801
1118	KORKOLA_TERATOMA_UP	11	Up	0.041699395	0.176391801
1119	MARIADASON_RESPONSE_TO_BUTYRATE_SULINDAC_6	50	Down	0.041796642	0.17641369
1120	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_YELLOW_UP	32	Up	0.041813608	0.17641369
1121	HESS_TARGETS_OF_HOXA9_AND_MEIS1_UP	60	Up	0.041831217	0.17641369
1122	BRIDEAU_IMPRINTED_GENES	41	Up	0.041853915	0.17641369

	A	B	C	D	E
1123	MATZUK_STEROIDOGENESIS	6	Up	0.04192867	0.17657127
1124	WANG_ESOPHAGUS_CANCER_PROGRESSION_UP	7	Up	0.042014256	0.176774142
1125	LIEN_BREAST_CARCINOMA_METAPLASTIC_VS_D UCTAL_DN	74	Up	0.042399457	0.178148751
1126	DING_LUNG_CANCER_BY_MUTATION_RATE	15	Down	0.042416369	0.178148751
1127	GOZGIT_ESR1_TARGETS_DN	601	Up	0.042487601	0.178289443
1128	PID_FOXO_PATHWAY	46	Down	0.042598737	0.178597191
1129	LEE_AGING_CEREBELLUM_DN	65	Up	0.042677235	0.178767672
1130	KEGG_SPHINGOLIPID_METABOLISM	32	Up	0.042720054	0.178788532
1131	BIOCARTA_INTEGRIN_PATHWAY	37	Up	0.043053532	0.180024726
1132	TIEN_INTESTINE_PROBIOTICS_2HR_DN	85	Up	0.043172519	0.180362646
1133	PID_INTEGRIN5_PATHWAY	13	Up	0.04322273	0.180412898
1134	REACTOME_GLYCOSPHINGOLIPID_METABOLISM	30	Up	0.043307085	0.180605451
1135	BOCHKIS_FOXA2_TARGETS	336	Up	0.043425614	0.180782143
1136	COLLER_MYC_TARGETS_UP	24	Down	0.043425975	0.180782143
1137	ACOSTA_PROLIFERATION_INDEPENDENT_MYC_T ARGETS_UP	84	Up	0.043482157	0.180856683
1138	HASLINGER_B_CLL_WITH_17P13_DELETION	21	Down	0.043527894	0.180887686
1139	YU_MYC_TARGETS_UP	42	Down	0.043892585	0.182242938
1140	KAAB_HEART_ATRIUM_VS_VENTRICLE_UP	208	Up	0.043948352	0.182314277
1141	ROSS_AML_WITH_MLL_FUSIONS	59	Up	0.044017516	0.18244102
1142	SMID_BREAST_CANCER_ERBB2_UP	96	Up	0.044094635	0.182600481
1143	MARIADASON_RESPONSE_TO_BUTYRATE_CURC UMIN_SULINDAC_TSA_1	9	Up	0.044168771	0.182747324
1144	KOBAYASHI_RESPONSE_TO_ROMIDEPSIN	17	Up	0.044288634	0.183082935
1145	PARK_HSC_VS_MULTIPOTENT_PROGENITORS_UP	16	Up	0.044406741	0.18341071
1146	PID_NFAT_TFPATHWAY	29	Up	0.044475975	0.183420757
1147	FERNANDEZ_BOUND_BY_MYC	157	Up	0.04449111	0.183420757
1148	ZHAN_MULTIPLE_MYELOMA_CD1_DN	41	Up	0.044525631	0.183420757
1149	REACTOME_ACTIVATION_OF_GENES_BY_ATF4	22	Up	0.044640107	0.183732146

	A	B	C	D	E
1150	MULLIGHAN_NPM1_SIGNATURE_3_DN	135	Up	4.48E-02	1.84E-01
1151	WANG_ADIPOGENIC_GENES_REPRESSED_BY_SIR T1	21	Up	4.49E-02	1.85E-01
1152	REACTOME_ELONGATION_ARREST_AND_RECOVER Y	30	Down	0.045305798	0.185842121
1153	BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_D N	602	Up	0.045341572	0.185842121
1154	REACTOME_HIV_LIFE_CYCLE	110	Down	0.045349411	0.185842121
1155	ABRAMSON_INTERACT_WITH_AIRE	43	Down	0.045474365	0.186192698
1156	WU_HBX_TARGETS_3_UP	16	Up	0.045579315	0.186460833
1157	LEE_LIVER_CANCER_SURVIVAL_UP	118	Up	0.045735881	0.186939478
1158	HERNANDEZ_MITOTIC_ARREST_BY_DOCETAXEL_ 2_UP	47	Up	0.045907592	0.187479147
1159	RICKMAN_HEAD_AND_NECK_CANCER_C	44	Up	0.046056556	0.187925068
1160	OZANNE_AP1_TARGETS_DN	4	Up	0.046500299	0.189357895
1161	GAUSSMANN_MLL_AF4_FUSION_TARGETS_B_D N	6	Up	0.046512804	0.189357895
1162	BIOCARTA_SARS_PATHWAY	7	Down	0.04652794	0.189357895
1163	MOLENAAR_TARGETS_OF_CCND1_AND_CDK4_D N	56	Down	0.046651853	0.189698799
1164	PID_NCADHERIN_PATHWAY	31	Down	0.046818396	0.189928701
1165	REACTOME_ASSOCIATION_OF_TRIC_CCT_WITH_T ARGET_PROTEINS_DURING_BIOSYNTHESIS	26	Down	0.046854104	0.189928701
1166	ST_IL_13_PATHWAY	5	Up	0.046856001	0.189928701
1167	KEGG_HEDGEHOG_SIGNALING_PATHWAY	35	Down	0.046905603	0.189928701
1168	PASINI_SUZ12_TARGETS_UP	91	Up	0.04695233	0.189928701
1169	ISSAEVA_MLL2_TARGETS	45	Up	0.046989159	0.189928701
1170	SENESE_HDAC1_AND_HDAC2_TARGETS_UP	184	Up	0.047012725	0.189928701
1171	MARSON_FOXP3_CORE_DIRECT_TARGETS	10	Up	0.047029964	0.189928701
1172	YAO_HOXA10_TARGETS_VIA_PROGESTERONE_U P	55	Up	0.047177782	0.190362954
1173	BIOCARTA_STRESS_PATHWAY	22	Up	0.047259946	0.190531779

	A	B	C	D	E
1174	PID_HNF3B_PATHWAY	26	Up	0.047379111	0.190849362
1175	LEE_LIVER_CANCER_HEPATOBLAST	13	Up	0.047571262	0.191325767
1176	NIKOLSKY_BREAST_CANCER_20Q11_AMPLICON	29	Up	0.047578365	0.191325767
1177	ZHONG_SECRETOME_OF_LUNG_CANCER_AND_MACROPHAGE	68	Up	0.047831742	0.192048914
1178	DUNNE_TARGETS_OF_AML1_MTG8_FUSION_UP	28	Up	0.047857803	0.192048914
1179	REACTOME_APC_C_CDH1_MEDIATED_DEGRADATION_OF_CDC20_AND_OTHER_APC_C_CDH1_TARGETED_PROTEINS_IN_LATE_MITOSIS_EARLY_G1	63	Down	0.047888075	0.192048914
1180	FIGUEROA_AML_METHYLATION_CLUSTER_4_UP	95	Up	0.047926539	0.192048914
1181	YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_11	97	Up	0.047981668	0.192048914
1182	REACTOME_CELL_CYCLE	364	Down	0.048002067	0.192048914
1183	OZANNE_AP1_TARGETS_UP	14	Up	0.048293511	0.193051472
1184	PYEON_HPV_POSITIVE_TUMORS_DN	7	Up	0.048349223	0.193110802
1185	YAMANAKA_GLIOMASTOMA_SURVIVAL_UP	8	Up	0.048408434	0.193183997
1186	FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_DN	482	Up	0.04865493	0.194003837
1187	VERNELL_RETINOBLASTOMA_PATHWAY_DN	21	Up	0.048735781	0.194162364
1188	BROWNE_HCMV_INFECTION_10HR_DN	51	Up	0.048875275	0.194432693
1189	GALIE_TUMOR_ANGIOGENESIS	4	Up	0.0489153	0.194432693
1190	GUILLAUMOND_KLF10_TARGETS_UP	39	Up	0.048927605	0.194432693
1191	KEGG_ECM_RECEPTOR_INTERACTION	62	Up	4.90E-02	1.94E-01
1192	DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_DN	81	Up	4.90E-02	1.95E-01
1193	ZHU_CMV_24_HR_UP	89	Up	0.049110519	0.194633726
1194	BIOCARTA_RNA_PATHWAY	10	Up	0.049181097	0.194633726
1195	BIOCARTA_EIF2_PATHWAY	11	Up	0.049183634	0.194633726
1196	WEST_ADRENOCORTICAL_TUMOR_MARKERS_DN	12	Down	0.049425627	0.195427687

	A	B	C	D	E
1197	BLUM_RESPONSE_TO_SALIRASIB_DN	329	Down	0.049583388	0.195800143
1198	RUAN_RESPONSE_TO_TNF_DN	64	Up	0.049602703	0.195800143
1199	YAGI_AML_WITH_11Q23_REARRANGED	299	Up	0.049644786	0.195802684
1200	WENG_POR_TARGETS_GLOBAL_DN	17	Up	0.049802577	0.196261198
1201	KIM_LRRC3B_TARGETS	22	Up	0.050018676	0.196948537
1202	LINDSTEDT_DENDRITIC_CELL_MATURATION_C	57	Up	0.050121543	0.197189252
1203	WANG_HCP_PROSTATE_CANCER	94	Up	0.05017351	0.197229479
1204	IRITANI_MAD1_TARGETS_DN	46	Down	0.05043014	0.198073493
1205	LAIHO_COLORECTAL_CANCER_SERRATED_DN	80	Down	0.050493296	0.19815683
1206	ZHONG_SECRETOME_OF_LUNG_CANCER_AND_E NDOTHELIUM	57	Up	0.050701055	0.198807041
1207	STOSSI_RESPONSE_TO ESTRADIOL	28	Down	0.050815037	0.198931675
1208	BIOCARTA_ACE2_PATHWAY	7	Up	0.050817044	0.198931675
1209	ZHENG_BOUND_BY_FOXP3	399	Up	0.05106702	0.199736201
1210	KAUFFMANN_DNA_REPAIR_GENES	216	Down	0.051107104	0.199736201
1211	NADERI_BREAST_CANCER_PROGNOSIS_UP	43	Down	0.051211849	0.199980154
1212	BIOCARTA_TNFR1_PATHWAY	27	Up	0.052046676	0.203072292
1213	CHIARADONNA NEOPLASTIC TRANSFORMATION _KRAS_DN	125	Up	0.052236259	0.203525615
1214	LEE_LIVER_CANCER_CIPROFIBRATE_UP	41	Up	0.052273373	0.203525615
1215	SHAFFER_IRF4_TARGETS_IN_ACTIVATED_DENDRI TIC_CELL	62	Up	0.052292084	0.203525615
1216	TENEDINI_MEGAKARYOCYTE_MARKERS	46	Up	0.052466129	0.204034946
1217	WANG_SMARCE1_TARGETS_DN	327	Up	0.052561092	0.20423615
1218	BIOCARTA_VIP_PATHWAY	24	Up	0.052650443	0.204415235
1219	ST_GRANULE_CELL_SURVIVAL_PATHWAY	24	Up	0.053058181	0.205829152
1220	REACTOME_RNA_POL_II_TRANSCRIPTION_PRE_I NITIATION_AND_PROMOTER_OPENING	37	Down	0.053357156	0.206819166
1221	REACTOME_FORMATION_OF_RNA_POL_II_ELON GATION_COMPLEX	40	Down	0.053446359	0.206995119
1222	KAAB_FAILED_HEART_ATRIUM_UP	32	Down	0.053498273	0.207026485

	A	B	C	D	E
1223	REACTOME_REGULATED_PROTEOLYSIS_OF_P75N TR	10	Up	0.053829069	0.208136131
1224	REACTOME_SPHINGOLIPID_METABOLISM	56	Up	0.054045661	0.208802738
1225	LUCAS_HNF4A_TARGETS_UP	53	Up	0.054469089	0.210266705
1226	BIOCARTA_FAS_PATHWAY	29	Up	0.05451682	0.210279164
1227	NATSUME_RESPONSE_TO_INTERFERON_BETA_U P	56	Up	0.054818026	0.211064707
1228	MATTIOLI_MULTIPLE_MYELOMA_WITH_14Q32_T RANSLOCATIONS	27	Up	0.054840005	0.211064707
1229	RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_P OORLY_DN	318	Up	0.054913682	0.211064707
1230	MORI_PRE_BI_LYMPHOCYTE_DN	62	Up	0.054921938	0.211064707
1231	REACTOME_RNA_POL_II_PRE_TRANSCRIPTION_E VENTS	56	Down	0.054943828	0.211064707
1232	BIOCARTA_P53_PATHWAY	16	Up	5.50E-02	2.11E-01
1233	CHYLA_CBFA2T3_TARGETS_UP	268	Up	5.53E-02	2.12E-01
1234	WANG_ESOPHAGUS_CANCER_VS_NORMAL_DN	90	Up	0.055392607	0.21227094
1235	HEIDENBLAD_AMPLIFIED_IN_SOFT_TISSUE_CANC ER	11	Up	0.055463176	0.212369132
1236	KEGG_ALPHA_LINOLENIC_ACID_METABOLISM	9	Up	0.055559934	0.212567358
1237	VECCHI_GASTRIC_CANCER_EARLY_DN	236	Up	0.055754933	0.212975339
1238	ALONSO_METASTASIS_NEURAL_UP	16	Up	0.055756718	0.212975339
1239	BIOCARTA_CASPASE_PATHWAY	18	Up	0.055970183	0.213618024
1240	KEGG_THYROID_CANCER	25	Down	0.056333466	0.214831013
1241	JOHNSTONE_PARVB_TARGETS_1_DN	61	Up	0.056469606	0.215176523
1242	SWEET_KRAS_TARGETS_DN	49	Up	0.056640817	0.215655002
1243	ZHENG_IL22_SIGNALING_UP	32	Up	0.056867871	0.216345162
1244	NIKOLSKY_BREAST_CANCER_17Q21_Q25_AMPLIC ON	248	Down	0.057036804	0.216602289
1245	ROYLANCE_BREAST_CANCER_16Q_COPY_NUMBE R_DN	17	Up	0.057052781	0.216602289
1246	MANTOVANI_NFKB_TARGETS_UP	30	Up	0.057072984	0.216602289

	A	B	C	D	E
1247	MMS_MOUSE_LYMPH_HIGH_4HRS_UP	34	Up	0.057486611	0.21799698
1248	WEIGEL_OXIDATIVE_STRESS_BY_HNE_AND_H2O2	35	Up	0.057600136	0.21825232
1249	IWANAGA_CARCIANOGENESIS_BY_KRAS_UP	139	Up	0.057925353	0.21930873
1250	LIU_TOPBP1_TARGETS	11	Down	0.058438944	0.221028601
1251	BANDRES_RESPONSE_TO_CARMUSTIN_WITHOUT_MGMT_48HR_DN	25	Up	0.058473175	0.221028601
1252	SESTO_RESPONSE_TO_UV_C3	17	Up	0.058639159	0.221478837
1253	DELPUECH_FOXO3_TARGETS_UP	64	Up	0.058704116	0.221547081
1254	LE_NEURONAL_DIFFERENTIATION_DN	19	Down	0.058793944	0.221709009
1255	REACTOME_IMMUNOREGULATORY_INTERACTIONS_BETWEEN_A_LYMPHOID_AND_A_NON_LYMPHOID_CELL	21	Up	0.058868704	0.221813895
1256	MIKI_COEXPRESSED_WITH_CYP19A1	5	Down	0.059022033	0.22212665
1257	MANTOVANI_VIRAL_GPCR_SIGNALING_UP	61	Up	0.059096822	0.22212665
1258	ZHANG_TLX_TARGETS_DN	87	Down	0.05917047	0.22212665
1259	KORKOLA_YOLK_SAC_TUMOR_UP	20	Up	0.059171924	0.22212665
1260	SAMOLS_TARGETS_OF_KHSV_MIRNAS_UP	8	Up	0.059186762	0.22212665
1261	REACTOME_CS_DS_DEGRADATION	11	Up	0.059397439	0.222679649
1262	BIOCARTA_TEL_PATHWAY	18	Down	0.059428368	0.222679649
1263	LEE_EARLY_T_LYMPHOCYTE_DN	42	Up	0.05964728	0.222904002
1264	REACTOME_MRNA_DECAY_BY_5_TO_3_EXORIBONUCLEASE	14	Down	0.059653936	0.222904002
1265	WALLACE_PROSTATE_CANCER_RACE_DN	74	Up	0.059672276	0.222904002
1266	SA_FAS_SIGNALING	7	Up	0.059697783	0.222904002
1267	ZHANG_TLX_TARGETS_60HR_UP	269	Up	0.05972412	0.222904002
1268	LEIN_ASTROCYTE_MARKERS	33	Up	0.0600848	0.223910456
1269	SEIDEN_ONCOGENESIS_BY_MET	86	Up	0.060088563	0.223910456
1270	SHIN_B_CELL_LYMPHOMA_CLUSTER_2	25	Up	0.060720599	0.226087336
1271	YAGI_AML_SURVIVAL	110	Up	0.060897009	0.226565644
1272	GRAHAM_CML_QUIESCENT_VS_NORMAL_QUIESCENT_DN	31	Up	0.061003355	0.226782733

	A	B	C	D	E
1273	PID_FOXM1_PATHWAY	37	Down	6.11E-02	2.27E-01
1274	BROWNE_HCMV_INFECTION_16HR_DN	73	Up	6.18E-02	2.29E-01
1275	BIOCARTA_P53HYPOXIA_PATHWAY	21	Up	0.061815133	0.229217929
1276	BROWNE_HCMV_INFECTION_18HR_DN	140	Up	0.061874588	0.229217929
1277	TERAMOTO_OPN_TARGETS_CLUSTER_3	5	Up	0.061900969	0.229217929
1278	RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_DN	251	Up	0.062006113	0.229409255
1279	ACEVEDO_FGFR1_TARGETS_IN_PROSTATE_CANCER_MODEL_DN	227	Up	0.062077761	0.229409255
1280	HOLLEMAN_PREDNISOLONE_RESISTANCE_B_ALL_UP	22	Down	0.062098293	0.229409255
1281	BERENJENO_TRANSFORMED_BY_RHOA_FOREVER_UP	14	Up	0.06230318	0.229809924
1282	BOYAUULT_LIVER_CANCER_SUBCLASS_G6_UP	60	Up	0.062304024	0.229809924
1283	YAMASHITA_LIVER_CANCER_WITH_EPCAM_UP	47	Down	0.062423484	0.230070954
1284	LEE_METASTASIS_AND_ALTERNATIVE_SPLICING_DN	40	Up	0.062761099	0.230956367
1285	KIM_BIPOLAR_DISORDER_OLIGODENDROCYTE_DENSITY_CORR_DN	35	Up	0.062761476	0.230956367
1286	ZHOU_TNF_SIGNALING_4HR	52	Up	0.062901956	0.231293184
1287	CROONQUIST_NRAS_VS_STROMAL_STIMULATION_DN	93	Down	0.063122049	0.231757594
1288	HUMMERICH_MALIGNANT_SKIN_TUMOR_UP	7	Up	0.063126354	0.231757594
1289	HOWLIN_CITED1_TARGETS_2_DN	13	Up	0.063225655	0.23194194
1290	REACTOME_LATE_PHASE_OF_HIV_LIFE_CYCLE	98	Down	0.063463124	0.232632477
1291	NIKOLSKY_BREAST_CANCER_16P13_AMPLICON	92	Down	0.063539318	0.232731221
1292	SABATES_COLORECTAL_ADENOMA_UP	68	Up	0.063689988	0.233098186
1293	HOWLIN_PUBERTAL_MAMMARY_GLAND	36	Up	0.063749551	0.233098186
1294	REACTOME_LYSOSOME_VESICLE_BIOGENESIS	23	Up	0.063810657	0.233098186
1295	WHITEHURST_PACLITAXEL_SENSITIVITY	29	Down	0.063836837	0.233098186
1296	JOHANSSON_BRAIN_CANCER_EARLY_VS_LATE_DN	42	Up	0.063978275	0.233274475
1297	MAHADEVAN_IMATINIB_RESISTANCE_UP	14	Up	0.063983856	0.233274475

	A	B	C	D	E
1298	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_29	5	Up	0.064042173	0.233295001
1299	CHIANG_LIVER_CANCER_SUBCLASS_INTERFERON_DN	37	Up	0.064088235	0.233295001
1300	UDAYAKUMAR_MED1_TARGETS_UP	133	Up	0.064852892	0.235896778
1301	TORCHIA_TARGETS_OF_EWSR1_FLI1_FUSION_UP	223	Up	0.065235223	0.237104946
1302	PETRETTO_HEART_MASS_QTL_CIS_UP	24	Up	0.065498948	0.237768454
1303	PID_INTEGRIN2_PATHWAY	13	Up	0.065554027	0.237768454
1304	WIKMAN_ASBESTOS_LUNG_CANCER_DN	19	Down	0.065602538	0.237768454
1305	SASSON_RESPONSE_TO_FORSKOLIN_UP	83	Up	0.06567118	0.237768454
1306	SCHAEFFER_PROSTATE_DEVELOPMENT_48HR_UP	387	Up	0.065725475	0.237768454
1307	REACTOME_EXTRINSIC_PATHWAY_FOR_APOPTOSIS	9	Up	0.065735963	0.237768454
1308	ZHOU_PANCREATIC_EXOCRINE_PROGENITOR	6	Down	0.065811536	0.237768454
1309	ACEVEDO_FGFR1_TARGETS_IN_PROSTATE_CANCER_MODEL_UP	215	Up	0.065827189	0.237768454
1310	BENPORATH_OCT4_TARGETS	274	Down	0.065927406	0.237768454
1311	REACTOME_CELL_CYCLE_MITOTIC	303	Down	0.065936429	0.237768454
1312	BARRIER_CANCER_RELAPSE_TUMOR_SAMPLE_UP	14	Up	0.065971311	0.237768454
1313	HUMMERICH_BENIGN_SKIN_TUMOR_DN	7	Down	0.066271333	0.238667721
1314	BOYALT_LIVER_CANCER_SUBCLASS_G123_DN	37	Up	6.66E-02	2.40E-01
1315	SMID_BREAST_CANCER_RELAPSE_IN_LIVER_UP	2	Down	6.68E-02	2.40E-01
1316	GENTILE_UV_LOW_DOSE_UP	25	Down	0.067004688	0.240544317
1317	BIOCARTA_CFTR_PATHWAY	11	Up	0.067029376	0.240544317
1318	SWEET_LUNG_CANCER_KRAS_UP	411	Up	0.067055533	0.240544317
1319	CHNG_MULTIPLE_MYELOMA_HYPERPLOID_UP	49	Down	0.067097865	0.240544317
1320	MEISSNER_NPC_ICP_WITH_H3_UNMETHYLATED	14	Down	0.067181661	0.240662129
1321	VALK_AML_CLUSTER_2	22	Up	0.067389971	0.241225464
1322	MARTINEZ_RB1_AND_TP53_TARGETS_UP	466	Up	0.067783175	0.242348695
1323	HAN_JNK_SIGNALING_DN	28	Up	0.067806344	0.242348695

	A	B	C	D	E
1324	SMIRNOV_RESPONSE_TO_IR_2HR_UP	49	Up	0.067957613	0.242673919
1325	ZHU_CMV_8_HR_UP	36	Up	0.068000057	0.242673919
1326	JOSEPH_RESPONSE_TO_SODIUM_BUTYRATE_UP	27	Up	0.068158601	0.243056143
1327	CLIMENT_BREAST_CANCER_COPY_NUMBER_DN	7	Up	0.068443606	0.243888415
1328	BEIER_GLIOMA_STEM_CELL_DN	61	Up	0.068555171	0.244101871
1329	SATO_SILENCED_BY_METHYLATION_IN_PANCREATIC_CANCER_1	285	Up	0.068880626	0.245076024
1330	WANG_NEOPLASTIC_TRANSFORMATION_BY_CCND1_MYC	16	Up	0.069047091	0.245139539
1331	ZHAN_MULTIPLE_MYELOMA_DN	25	Up	0.069049764	0.245139539
1332	LEE_LIVER_CANCER_MYC_E2F1_DN	32	Up	0.069054122	0.245139539
1333	TOMLINS_METASTASIS_UP	13	Down	0.069155495	0.245231449
1334	EBAUER_MYOGENIC_TARGETS_OF_PAX3_FOXO1_FUSION	34	Up	0.069231739	0.245231449
1335	BIOCARTA_SALMONELLA_PATHWAY	13	Up	0.069307268	0.245231449
1336	KEGG_CELL_CYCLE	116	Down	0.069368266	0.245231449
1337	GAVIN_FOXP3_TARGETS_CLUSTER_P7	69	Up	0.06938036	0.245231449
1338	ELVIDGE_HIF1A_TARGETS_UP	66	Up	0.069514985	0.245231449
1339	DAZARD_UV_RESPONSE_CLUSTER_G6	150	Down	0.0695255	0.245231449
1340	BIOCARTA_HIVNEF_PATHWAY	54	Up	0.069542249	0.245231449
1341	REACTOME_TRANSPORT_OF_VITAMINS_NUCLEOSIDES_AND_RELATED_MOLECULES	22	Up	0.06954712	0.245231449
1342	REACTOME_UNFOLDED_PROTEIN_RESPONSE	73	Up	0.0696366	0.245363859
1343	ZHANG_TLX_TARGETS_60HR_DN	269	Down	0.069951785	0.24629075
1344	TARTE_PLASMA_CELL_VS_PLASMA_BLAST_UP	256	Up	0.070032864	0.246296095
1345	HAHTOLA_MYCOSIS_FUNGOIDES_SKIN_DN	24	Up	0.070057556	0.246296095
1346	ST_ERK1_ERK2_MAPK_PATHWAY	31	Up	0.070233409	0.24673075
1347	BENPORATH_ES_2	40	Down	0.070378181	0.246955446
1348	EHLERS_ANEUPLOIDY_UP	39	Up	0.070401902	0.246955446
1349	SABATES_COLORECTAL_ADENOMA_SIZE_DN	10	Up	0.070717541	0.247878621
1350	PID_IL5_PATHWAY	11	Up	0.070943433	0.248486078

	A	B	C	D	E
1351	HOEBEKE_LYMPHOID_STEM_CELL_DN	74	Up	0.071317154	0.249571423
1352	KIM_ALL_DISORDERS_DURATION_CORR_UP	8	Up	0.071368891	0.249571423
1353	LU_TUMOR_ENDOTHELIAL_MARKERS_DN	2	Down	0.07141176	0.249571423
1354	RAO_BOUND_BY_SALL4_ISOFORM_A	120	Up	0.07149385	0.249603685
1355	TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_NORMAL_UP	69	Up	7.15E-02	2.50E-01
1356	PETRETTO_LEFT_VENTRICLE_MASS_QTL_CIS_UP	4	Up	7.19E-02	2.51E-01
1357	TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN_MONOCYTE_UP	16	Up	0.071899421	0.250534486
1358	RODRIGUES_DCC_TARGETS_UP	3	Up	0.072189559	0.251360109
1359	YEGNASUBRAMANIAN_PROSTATE_CANCER	92	Up	0.072376024	0.251823793
1360	REACTOME_METABOLISM_OF_STEROID_HORMONES_AND_VITAMINS_A_AND_D	15	Up	0.072565717	0.252298023
1361	GENTILE_UV_RESPONSE_CLUSTER_D6	34	Down	0.072784848	0.252873829
1362	MARKEY_RB1_ACUTE_LOF_UP	223	Down	0.073096791	0.253588061
1363	LUI_THYROID_CANCER_PAX8_PPARG_DN	42	Up	0.073123376	0.253588061
1364	GEORGES_TARGETS_OF_MIR192_AND_MIR215	848	Up	0.073151434	0.253588061
1365	REACTOME_DEADENYLATION_OF_MRNA	19	Down	0.073379674	0.254192785
1366	MORI_EMU_MYC_LYMPHOMA_BY_ONSET_TIME_DN	15	Up	0.073509114	0.254394489
1367	MORI_SMALL_PRE_BII_LYMPHOCYTE_DN	65	Up	0.073619982	0.254394489
1368	REACTOME_O_LINKED_GLYCOSYLATION_OF_MUCINS	35	Up	0.073623311	0.254394489
1369	LIU_IL13_MEMORY_MODEL_DN	5	Up	0.07370417	0.254394489
1370	BIOCARTA_FEEDER_PATHWAY	7	Down	0.073707102	0.254394489
1371	GILDEA_METASTASIS	27	Up	0.073835171	0.2546505
1372	PLASARI_TGFB1_TARGETS_10HR_DN	181	Up	0.073948861	0.254856579
1373	IZADPANAH_STEM_CELL_ADIPOSE_VS_BONE_DN	90	Up	0.074370268	0.256022282
1374	REACTOME_CLEAVAGE_OF_GROWING_TRANSCRIPT_IN_THE_TERMINATION_REGION	43	Down	0.074395469	0.256022282

	A	B	C	D	E
1375	ROSS_ACUTE_MYELOID_LEUKEMIA_CBF	66	Up	0.074554737	0.256206781
1376	ZHENG_FOXP3_TARGETS_IN_THYMUS_DN	8	Up	0.074557529	0.256206781
1377	WAESCH_ANAPHASE_PROMOTING_COMPLEX	11	Down	0.074687876	0.256468179
1378	SEMBA_FHIT_TARGETS_DN	10	Down	0.074865256	0.256890584
1379	BILANGES_SERUM_AND_RAPAMYCIN_SENSITIVE_GENES	65	Down	0.074931222	0.256930353
1380	VERRECCHIA_RESPONSE_TO_TGFB1_C4	12	Down	0.07503108	0.257030545
1381	BIOCARTA_SRCRPT_PATHWAY	11	Down	0.075069239	0.257030545
1382	GYORFFY_DOXORUBICIN_RESISTANCE	41	Up	0.075194162	0.257192497
1383	SMIRNOV_RESPONSE_TO_IR_6HR_DN	92	Down	0.075225403	0.257192497
1384	PID_INTEGRIN_CS_PATHWAY	16	Up	0.075311664	0.257301237
1385	MANTOVANI_NFKB_TARGETS_DN	9	Up	0.075400998	0.257420315
1386	HOEBEKE_LYMPHOID_STEM_CELL_UP	78	Down	0.075508557	0.257601395
1387	REACTOME_HEMOSTASIS	322	Up	0.07562307	0.257783393
1388	KEGG_PATHOGENIC_ESCHERICHIA_COLI_INFECTI ON	44	Up	0.075671019	0.257783393
1389	TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_ DUCTAL_NORMAL_UP	38	Up	0.075807056	0.258060764
1390	MISSIAGLIA_REGULATED_BY_METHYLATION_DN	117	Down	0.076014567	0.25858087
1391	WANG_RESPONSE_TO_GSK3_INHIBITOR_SB2167 63_UP	301	Up	0.076415462	0.259346725
1392	KEGG_PANTOTHENATE_AND_COA_BIOSYNTHESIS	11	Up	0.076440548	0.259346725
1393	FRASOR_RESPONSE_TO_SERM_OR_FULVESTРАН T_DN	48	Down	0.076446349	0.259346725
1394	HASLINGER_B_CLL_WITH_CHROMOSOME_12_TRI SOMY	21	Up	0.076490831	0.259346725
1395	MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_ DN	4	Up	0.076514145	0.259346725
1396	KIM_MYC_AMPLIFICATION_TARGETS_DN	88	Up	7.67E-02	2.60E-01

	A	B	C	D	E
1397	MIKKELSEN_ES_LCP_WITH_H3K4ME3_AND_H3K27ME3	4	Down	7.69E-02	2.60E-01
1398	BASSO_B_LYMPHOCYTE_NETWORK	133	Up	0.076919506	0.259924222
1399	MILI_PSEUDOPODIA_CHEMOTAXIS_DN	444	Up	0.076955464	0.259924222
1400	KOKKINAKIS_METHIONINE_DEPRIVATION_96HR_DN	69	Up	0.076959574	0.259924222
1401	FERREIRA_EWINGS_SARCOMA_UNSTABLE_VS_S TABLE_UP	155	Down	0.077382	0.261105099
1402	PARK_HSC_MARKERS	36	Down	0.077419734	0.261105099
1403	ABE_VEGFA_TARGETS	12	Up	0.077868106	0.262429958
1404	MULLIGHAN_NPM1_MUTATED_SIGNATURE_1_D N	106	Up	0.078155125	0.262714596
1405	DEBIASI_APOPTOSIS_BY_REOVIRUS_INFECTION_ UP	279	Up	0.078156566	0.262714596
1406	REACTOME_MYOGENESIS	20	Down	0.078159248	0.262714596
1407	GAL_LEUKEMIC_STEM_CELL_DN	158	Down	0.078174968	0.262714596
1408	MOHANKUMAR_TLX1_TARGETS_DN	131	Up	0.078435884	0.263404089
1409	VANDESLUIS_NORMAL_EMBRYOS_DN	15	Down	0.078522906	0.263454721
1410	REACTOME_BRANCHED_CHAIN_AMINO_ACID_CA TABOLISM	17	Up	0.078562477	0.263454721
1411	SCHRAMM_INHBA_TARGETS_UP	6	Up	0.078714833	0.263778431
1412	PID_BETA_CATENIN_DEG_PATHWAY	17	Down	0.078883074	0.264123858
1413	YAO_TEMPORAL_RESPONSE_TO_PROGESTERON E_CLUSTER_8	41	Up	0.078929711	0.264123858
1414	AIYAR_COBRA1_TARGETS_UP	32	Up	0.079104817	0.264356519
1415	REACTOME_GLYCOLYSIS	24	Down	0.079111136	0.264356519
1416	WAMUNYOKOLI_OVARIAN_CANCER_LMP_DN	181	Up	0.079361365	0.264727002
1417	SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN	193	Up	0.079373952	0.264727002
1418	MULLIGHAN_MLL_SIGNATURE_1_UP	317	Up	0.079390087	0.264727002
1419	DORN_ADENOVIRUS_INFECTION_12HR_UP	25	Up	0.079568222	0.264885813
1420	XU_HGF_TARGETS_INDUCED_BY_AKT1_6HR	17	Up	0.079611318	0.264885813

	A	B	C	D	E
1421	MISHRA_CARINOMA_ASSOCIATED_FIBROBLAST_DN	22	Up	0.079634006	0.264885813
1422	KIM_GERMINAL_CENTER_T_HELPER_UP	59	Up	0.079661955	0.264885813
1423	WONG_ENDOMETRIAL_CANCER_LATE	3	Down	0.079829405	0.265255934
1424	KEGG_DRUG_METABOLISM_CYTOCHROME_P450	23	Up	0.079969851	0.265535871
1425	WONG_EMBRYONIC_STEM_CELL_CORE	334	Down	0.080099343	0.265779069
1426	NABA_ECM_REGULATORS	131	Up	0.080217895	0.265985651
1427	FOURNIER_ACINAR_DEVELOPMENT_LATE_DN	21	Up	0.080465075	0.266575562
1428	BIOCARTA_EXTRINSIC_PATHWAY	4	Up	0.080508641	0.266575562
1429	FERRARI_RESPONSE_TO_FENRETINIDE_DN	3	Up	0.080644801	0.266839416
1430	SERVITJA_LIVER_HNF1A_TARGETS_UP	106	Up	0.080784645	0.266902634
1431	GAZIN_EPIGENETIC_SILENCING_BY_KRAS	23	Down	0.08079224	0.266902634
1432	DIERICK_SEROTONIN_FUNCTION_GENES	3	Up	0.080833369	0.266902634
1433	KEGG_LEISHMANIA_INFECTON	45	Up	0.081111531	0.267452319
1434	PID_RHOA_PATHWAY	42	Up	0.081113052	0.267452319
1435	RIGGI_EWING_SARCOMA_PROGENITOR_UP	334	Up	0.081341492	0.268018513
1436	MEDINA_SMARCA4_TARGETS	36	Down	0.081643199	0.268825166
1437	ZHAN_MULTIPLE_MYELOMA_HP_UP	36	Down	8.18E-02	2.69E-01
1438	REACTOME_ABACAVIR_TRANSPORT_AND_META BOLISM	6	Up	8.20E-02	2.69E-01
1439	IVANOVA_HEMATOPOIESIS_MATURE_CELL	252	Up	0.082017959	0.269495728
1440	NEBEN_AML_WITH_FLT3_OR_NRAS_DN	12	Up	0.082155638	0.269760522
1441	GRAHAM_CML_DIVIDING_VS_NORMAL QUIESCE NT_DN	67	Up	0.082261539	0.269920676
1442	REACTOME_NEF_MEDIATED_DOWNREGULATION OF_MHC_CLASS_I_COMPLEX_CELL_SURFACE_EX PRESSION	9	Up	0.082776014	0.271388796
1443	REACTOME_PYRIMIDINE_CATABOLISM	6	Up	0.08282384	0.271388796
1444	LINDVALL_IMMORTALIZED_BY_TERT_DN	62	Up	0.082972381	0.271687111
1445	REACTOME_CD28_DEPENDENT_PI3K_AKT_SIGNAL ING	17	Up	0.083114219	0.271963078

	A	B	C	D	E
1446	DARWICHE_PAPILLOMA_RISK_HIGH_VS_LOW_DN	25	Up	0.083258557	0.27224684
1447	BOYLAN_MULTIPLE_MYELOMA_PCA1_DN	7	Up	0.083516236	0.272900564
1448	VANDESLUIS_COMMD1_TARGETS_GROUP_2_UP	14	Up	0.083809671	0.273601939
1449	GENTILE_UV_RESPONSE_CLUSTER_D9	26	Up	0.083846689	0.273601939
1450	CHIN_BREAST_CANCER_COPY_NUMBER_DN	13	Down	0.084050901	0.273956277
1451	KEGG_NOTCH_SIGNALING_PATHWAY	43	Down	0.084115565	0.273956277
1452	ZHANG_ADIPOGENESIS_BY_BMP7	14	Up	0.084129219	0.273956277
1453	REACTOME_NEGATIVE_REGULATION_OF_THE_PI 3K_AKT_NETWORK	7	Up	0.08419117	0.273969201
1454	ONDER_CDH1_TARGETS_1_UP	128	Up	0.084435232	0.274574309
1455	WHITESIDE_CISPLATIN_RESISTANCE_UP	11	Up	0.084615248	0.274785194
1456	MATZUK_LUTEAL_GENES	7	Up	0.084616393	0.274785194
1457	MEISSNER_BRAIN_HCP_WITH_H3K4ME2	13	Down	0.085061272	0.275877961
1458	ZHAN_MULTIPLE_MYELOMA_SPIKED	14	Up	0.08506967	0.275877961
1459	KEGG_BETA_ALANINE_METABOLISM	17	Up	0.085220044	0.27617607
1460	BILD_SRC_ONCOGENIC_SIGNATURE	58	Up	0.085458081	0.276757664
1461	ROZANOV_MMP14_TARGETS_UP	221	Up	0.08581354	0.277692627
1462	ZHAN_MULTIPLE_MYELOMA_LB_DN	29	Up	0.085864323	0.277692627
1463	KEGG_OOCYTE_MEIOSIS	95	Down	0.085995241	0.277826986
1464	KYNG_DNA_DAMAGE_BY_4NQO_OR_GAMMA_R ADIATION	13	Up	0.086023467	0.277826986
1465	STAMBOLSKY_TARGETS_OF_MUTATED_TP53_DN	37	Up	0.086382372	0.278795565
1466	GROSS_HIF1A_TARGETS_DN	21	Down	0.08657186	0.279216409
1467	BOQUEST_STEM_CELL_DN	160	Up	0.086851103	0.279829734
1468	REACTOME_SULFUR_AMINO_ACID_METABOLISM	23	Up	0.08688047	0.279829734
1469	CAVARD_LIVER_CANCER_MALIGNANT_VS_BENIG N	19	Up	0.087121175	0.280261792
1470	VALK_AML_CLUSTER_13	24	Up	0.087220816	0.280261792

	A	B	C	D	E
1471	KUUSELO_PANCREATIC_CANCER_19Q13_AMPLIFICATION	24	Down	0.087227852	0.280261792
1472	NIKOLSKY_BREAST_CANCER_5P15_AMPLICON	20	Down	0.087251872	0.280261792
1473	MODY_HIPPOCAMPUS_POSTNATAL	58	Down	0.087799593	0.28169115
1474	BIOCARTA_PS1_PATHWAY	12	Down	0.087816098	0.28169115
1475	REACTOME_CALNEXIN_CALRETICULIN_CYCLE	11	Up	0.088013937	0.281971946
1476	RUAN_RESPONSE_TO_TNF_TROGLITAZONE_DN	30	Up	0.08805321	0.281971946
1477	YAN_ESCAPE_FROM_ANOIKIS	14	Up	0.088087056	0.281971946
1478	KRASNOSELSKAYA_ILF3_TARGETS_UP	26	Up	8.81E-02	2.82E-01
1479	PUJANA_CHEK2_PCC_NETWORK	742	Down	8.83E-02	2.82E-01
1480	TANG_SENESCENCE_TP53_TARGETS_UP	22	Up	0.088682717	0.282946507
1481	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_13	6	Down	0.088738214	0.282946507
1482	PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_UP	261	Up	0.088739886	0.282946507
1483	KARAKAS_TGFB1_SIGNALING	13	Down	0.088746397	0.282946507
1484	MIZUKAMI_HYPOXIA_DN	4	Up	0.089040313	0.283551635
1485	MARIADASON_RESPONSE_TO_BUTYRATE_SULIN_DAC_4	20	Up	0.089056217	0.283551635
1486	PLASARI_TGFB1_TARGETS_1HR_DN	5	Up	0.089469125	0.284674489
1487	VALK_AML_CLUSTER_4	23	Up	0.089537261	0.284699569
1488	BIOCARTA_TCYTOTOXIC_PATHWAY	2	Up	0.0896305	0.28480438
1489	TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_NORMAL_UP	51	Up	0.089833509	0.285257613
1490	ROSS_AML_OF_FAB_M7_TYPE	59	Up	0.090013765	0.285638037
1491	AMUNDSON_GENOTOXIC_SIGNATURE	86	Down	0.090194411	0.285695408
1492	ZHENG_RESPONSE_TO_ARSENITE_DN	14	Up	0.090218091	0.285695408
1493	TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_NORMAL_DN	64	Up	0.090268388	0.285695408
1494	WANG_CLIM2_TARGETS_DN	175	Up	0.090306427	0.285695408
1495	PID_IL6_7_PATHWAY	42	Up	0.090334167	0.285695408
1496	MATZUK_IMPLANTATION_AND_UTERINE	12	Down	0.090464526	0.285878362
1497	ACEVEDO_LIVER_CANCER_WITH_H3K27ME3_UP	172	Up	0.090516473	0.285878362
1498	MALONEY_RESPONSE_TO_17AAG_DN	78	Down	0.090573525	0.285878362

	A	B	C	D	E
1499	DACOSTA_ERCC3_ALLELE_XPCS_VS_TTD_DN	33	Up	0.090911512	0.2867536
1500	FULCHER_INFLAMMATORY_RESPONSE_LLECTIN_VS_LPS_DN	362	Up	0.091011251	0.286876693
1501	LANDIS_ERBB2_BREAST_PRENEOPLASTIC_DN	47	Up	0.091084065	0.286914806
1502	DELLA_RESPONSE_TO_TSA_AND_BUTYRATE	19	Down	0.091281501	0.287345166
1503	RUIZ_TNC_TARGETS_UP	135	Up	0.091419455	0.287587832
1504	YANG_MUC2_TARGETS_COLON_3MO_DN	2	Down	0.091532884	0.287753079
1505	GALI_TP53_TARGETS_APOPTOTIC_UP	6	Up	0.091956486	0.288892551
1506	PECE_MAMMARY_STEM_CELL_DN	137	Up	0.092366665	0.289988366
1507	SIMBULAN_PARP1_TARGETS_UP	26	Up	0.092560792	0.290361921
1508	BERENJENO_TRANSFORMED_BY_RHOA_FOREVER_DN	23	Up	0.092651636	0.290361921
1509	JAATINEN_HEMATOPOIETIC_STEM_CELL_UP	276	Up	0.092713448	0.290361921
1510	CHANG_CORE_SERUM_RESPONSE_UP	208	Up	0.092731458	0.290361921
1511	ITO_PTTG1_TARGETS_UP	10	Up	0.09299318	0.290988593
1512	GERHOLD_RESPONSE_TO_TZD_UP	3	Up	0.093284016	0.291705476
1513	FAELT_B_CLL_WITH_VH3_21_UP	42	Down	0.093417921	0.291845443
1514	HEDENFALK_BREAST_CANCER_BRCA1_VS_BRCA2	157	Up	0.093461546	0.291845443
1515	PID_TCR_JNK_PATHWAY	11	Up	0.093514074	0.291845443
1516	HUANG_FOXA2_TARGETS_DN	31	Up	0.093631259	0.292018283
1517	PEREZ_TP53_AND_TP63_TARGETS	174	Down	0.09371354	0.29208211
1518	CAFFAREL_RESPONSE_TO_THC_24HR_5_DN	51	Up	0.093903484	0.292435718
1519	JISON_SICKLE_CELL_DISEASE_DN	164	Down	9.40E-02	2.92E-01
1520	VART_KSHV_INFECTION_ANGIOGENIC_MARKERS_UP	118	Up	9.42E-02	2.93E-01
1521	CHEMNITZ_RESPONSE_TO_PROSTAGLANDIN_E2_DN	322	Up	0.094854606	0.294860536
1522	BROWN_MYELOID_CELL_DEVELOPMENT_DN	106	Up	0.095060857	0.295307396
1523	PID_IL27_PATHWAY	12	Up	0.095285829	0.295811789
1524	NGUYEN_NOTCH1_TARGETS_DN	78	Up	0.095513702	0.296324518
1525	KIM_MYCL1_AMPLIFICATION_TARGETS_DN	18	Up	0.096214183	0.298265073

	A	B	C	D	E
1526	SNIJDERS_AMPLIFIED_IN_HEAD_AND_NECK_TUMORS	31	Up	0.096315865	0.298265073
1527	KEGG_ALANINE_ASPARTATE_AND GLUTAMATE_METABOLISM	23	Up	0.096402305	0.298265073
1528	PHONG_TNF_TARGETS_DN	7	Up	0.096457599	0.298265073
1529	KOHOUTEK_CCNT1_TARGETS	40	Up	0.096468347	0.298265073
1530	REACTOME_DOPAMINE_NEUROTRANSMITTER_RELEASE_CYCLE	10	Down	0.096517946	0.298265073
1531	SMID_BREAST_CANCER_RELAPSE_IN_BONE_DN	219	Up	0.096662065	0.298515199
1532	MULLIGHAN_MLL_SIGNATURE_2_DN	227	Up	0.096876431	0.2989818
1533	TURASHVILI_BREAST_NORMAL_DUCTAL_VS_LOBULAR_UP	62	Up	0.09705897	0.299349629
1534	LUND_SILENCED_BY_METHYLATION	16	Up	0.097424072	0.300279673
1535	ZHENG_FOXP3_TARGETS_IN_T_LYMPHOCYTE_UP	9	Up	0.097744852	0.301071986
1536	HOFFMAN_CLOCK_TARGETS_UP	4	Up	0.09795521	0.301514674
1537	MARTORIATI_MDM4_TARGETS_NEUROEPITHELIUM_UP	156	Up	0.098016199	0.301514674
1538	WILLIAMS_ESR1_TARGETS_DN	5	Down	0.098203571	0.301894517
1539	BANDRES_RESPONSE_TO_CARMUSTIN_MGMT_4_8HR_DN	109	Up	0.098364565	0.302192829
1540	KYNG_DNA_DAMAGE_DN	166	Up	0.098431432	0.302201764
1541	HANSON_HRAS_SIGNALING_VIA_NFKB	18	Up	0.098611748	0.302558771
1542	GAUSSMANN_MLL_AF4_FUSION_TARGETS_G_DN	34	Up	0.099000804	0.303470779
1543	TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_MONOCYTE_UP	179	Up	0.099037448	0.303470779
1544	CHAUHAN_RESPONSE_TO_METHOXYESTRADIOL_DN	94	Up	0.099270873	0.303869185
1545	GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN	3	Up	0.099296089	0.303869185
1546	PENG_Glutamine_DEPRIVATION_UP	33	Down	0.099374328	0.303911779

	A	B	C	D	E
1547	KEGG_ARACHIDONIC_ACID_METABOLISM	28	Up	0.09958011	0.304203313
1548	PID_HIV_NEF_PATHWAY	30	Up	0.099694226	0.304203313
1549	PID_PTP1B_PATHWAY	42	Up	0.099746541	0.304203313
1550	ICHIBA_GRAFT_VERSUS_HOST_DISEASE_D7_DN	24	Up	0.099805437	0.304203313
1551	CHEOK_RESPONSE_TO_HD_MTX_UP	13	Up	0.099817116	0.304203313
1552	REACTOME_TRAF6_MEDIATED_INDUCTION_OF_TAK1_COMPLEX	9	Down	0.099855945	0.304203313
1553	KASLER_HDAC7_TARGETS_1_DN	17	Up	0.100063477	0.304639129
1554	DORN_ADENOVIRUS_INFECTION_24HR_UP	10	Up	0.101104797	0.307611182
1555	CHESLER_BRAIN_D6MIT150_QTL_CIS	3	Down	0.101271519	0.307920158
1556	REACTOME_E2F_ENABLED_INHIBITION_OF_PRE_REPLICATION_COMPLEX_FORMATION	10	Down	0.101617458	0.308773306
1557	SU_KIDNEY	6	Down	0.101836399	0.309228901
1558	ST_WNT_CA2_CYCLIC_GMP_PATHWAY	11	Up	0.101898285	0.309228901
1559	KEGG_VIRAL_MYOCARDITIS	46	Up	0.102461402	0.310556043
1560	KAAB_FAILED_HEART_ATRIUM_DN	136	Up	1.03E-01	3.11E-01
1561	BROWNE_HCMV_INFECTION_2HR_DN	45	Down	1.03E-01	3.11E-01
1562	BROWNE_HCMV_INFECTION_1HR_DN	173	Down	0.102599973	0.310560457
1563	CHEN_HOXA5_TARGETS_6HR_DN	6	Up	0.102770933	0.310878784
1564	BIOCARTA_TALL1_PATHWAY	11	Up	0.103225782	0.312054907
1565	YU_BAP1_TARGETS	28	Up	0.103407665	0.312330867
1566	SPIRA_SMOKERS_LUNG_CANCER_DN	19	Down	0.103558616	0.312330867
1567	REACTOME_TELOMERE_MAINTENANCE	52	Down	0.10357326	0.312330867
1568	KEGG_HYPERTROPHIC_CARDIOMYOPATHY_HCM	57	Up	0.103581475	0.312330867
1569	REACTOME_NUCLEAR_RECEPTOR_TRANSCRIPTION_PATHWAY	32	Down	0.103922962	0.313160713
1570	KUROKAWA_LIVER_CANCER_CHEMOTHERAPY_DN	37	Up	0.104096942	0.313485055
1571	KEGG_SELENOAMINO_ACID_METABOLISM	24	Up	0.104274712	0.313753453
1572	BIOCARTA_EGF_PATHWAY	30	Up	0.104332094	0.313753453
1573	MARZEC_IL2_SIGNALING_DN	30	Down	0.104436818	0.313753453
1574	OKUMURA_INFLAMMATORY_RESPONSE_LPS	156	Up	0.104451679	0.313753453

	A	B	C	D	E
1575	HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACE L_2NM_DN	19	Down	0.104716401	0.314348789
1576	DEURIG_T_CELL_PROLYMPHOCYTIC_LEUKEMIA_D N	255	Up	0.104793237	0.314379712
1577	MOOTHA_PYR	6	Up	0.104921147	0.314563718
1578	HEIDENBLAD_AMPLICON_8Q24_DN	41	Up	0.105114703	0.314944181
1579	KEGG_NON_HOMOLOGOUS_END_JOINING	12	Down	0.105337807	0.31533979
1580	KIM_GLIS2_TARGETS_DN	4	Down	0.105410513	0.31533979
1581	ZHOU_PANCREATIC_BETA_CELL	2	Down	0.105446956	0.31533979
1582	RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_ IL4_DN	210	Up	0.105573439	0.315489316
1583	PID_CIRCADIAN_PATHWAY	15	Up	0.105666711	0.315489316
1584	WEST_ADRENOCORTICAL_TUMOR_MARKERS_UP	21	Down	0.105697267	0.315489316
1585	NIKOLSKY_MUTATED_AND_AMPLIFIED_IN_BREAS T_CANCER	73	Down	0.105777335	0.315528984
1586	GOBERT_OLIGODENDROCYTE_DIFFERENTIATION _UP	555	Down	0.106496735	0.317474495
1587	NADELLA_PRKAR1A_TARGETS_DN	8	Up	0.106818837	0.318233926
1588	YU_MYC_TARGETS_DN	38	Up	0.106943958	0.318405924
1589	BIOCARTA_PITX2_PATHWAY	13	Down	0.107049578	0.318427887
1590	PID_HDAC_CLASSII_PATHWAY	31	Down	0.107086119	0.318427887
1591	NIKOLSKY_BREAST_CANCER_6P24_P22_AMPLICO N	21	Up	0.107240191	0.318685474
1592	PID_HDAC_CLASSI_PATHWAY	61	Down	0.107450267	0.318920521
1593	KIM_WT1_TARGETS_12HR_DN	188	Up	0.107454279	0.318920521
1594	YORDY_RECIPROCAL_REGULATION_BY_ETS1_AN D_SP100_UP	24	Up	0.107583611	0.319041306
1595	LIU_BREAST_CANCER	22	Up	0.107630019	0.319041306
1596	SENESE_HDAC3_TARGETS_UP	446	Up	0.107931706	0.319583206
1597	LINDGREN_BLADDER_CANCER_CLUSTER_2A_UP	6	Down	0.107948105	0.319583206
1598	MATSUDA_NATURAL_KILLER_DIFFERENTIATION	379	Up	0.10860298	0.321146839

	A	B	C	D	E
1599	REACTOME_TETRAHYDROBIOPTERIN_BH4_SYNTHESIS_RECYCLING_SALVAGE_AND_REGULATION	12	Up	0.108612201	0.321146839
1600	BOGNI_TREATMENT_RELATED_MYELOID_LEUKEMIA_UP	20	Down	0.109125809	0.322463693
1601	IIZUKA_LIVER_CANCER_PROGRESSION_G1_G2_DNA	25	Up	1.09E-01	3.23E-01
1602	LASTOWSKA_COAMPLIFIED_WITH_MYCN	36	Up	1.09E-01	3.23E-01
1603	BIOCARTA_KERATINOCYTE_PATHWAY	43	Up	0.109494207	0.322946397
1604	SMID_BREAST_CANCER_RELAPSE_IN_LUNG_UP	18	Up	0.109668493	0.323258658
1605	PID_PRL_SIGNALING_EVENTS_PATHWAY	22	Up	0.109939635	0.323855845
1606	WATANABE_ULCERATIVE_COLITIS_WITH_CANCER_DN	7	Up	0.110104171	0.323946337
1607	WEINMANN_ADAPTATION_TO_HYPOXIA_DN	32	Up	0.110107475	0.323946337
1608	TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_ERYTHROCYTE_DN	12	Down	0.110941551	0.326197155
1609	KAMMINGA_SENESCENCE	34	Down	0.111106345	0.326380471
1610	LANDIS_ERBB2_BREAST_TUMORS_324_DN	121	Up	0.111142048	0.326380471
1611	THUM_MIR21_TARGETS_HEART_DISEASE_UP	12	Up	0.111389698	0.326904549
1612	MCCOLLUM_GELDANAMYCIN_RESISTANCE_UP	8	Down	0.111693815	0.327593591
1613	DING_LUNG_CANCER_MUTATED_SIGNIFICANTLY	20	Down	0.111765751	0.327601224
1614	LE_NEURONAL_DIFFERENTIATION_UP	16	Up	0.111896471	0.327781044
1615	KANNAN_TP53_TARGETS_DN	19	Up	0.112189791	0.328294026
1616	SMID_BREAST_CANCER_NORMAL_LIKE_DN	6	Up	0.112210551	0.328294026
1617	NUYTEN_NIPP1_TARGETS_UP	664	Up	0.112288014	0.328317367
1618	PID_RETINOIC_ACID_PATHWAY	28	Down	0.112598949	0.329022903
1619	REACTOME_INTERFERON_GAMMA_SIGNALING	38	Up	0.112696935	0.329105698
1620	HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETAXEL_2NM_UP	62	Up	0.112896456	0.329484716
1621	ODONNELL_TARGETS_OF_MYC_AND_TFRC_UP	60	Up	0.113142325	0.329822441
1622	DELASERNA_MYOD_TARGETS_DN	54	Up	0.113151784	0.329822441

	A	B	C	D	E
1623	PID_P53_REGULATION_PATHWAY	57	Down	0.113615394	0.330847367
1624	FUJIWARA_PARK2_IN_LIVER_CANCER_DN	3	Up	0.113643445	0.330847367
1625	KEGG_APOPTOSIS	72	Up	0.113947144	0.33152725
1626	IYENGAR_RESPONSE_TO_ADIPOCYTE_FACTORS	9	Down	0.114017703	0.331528399
1627	SIMBULAN_PARP1_TARGETS_DN	16	Down	0.114153394	0.331718812
1628	COLLER_MYC_TARGETS_DN	7	Up	0.114468998	0.332431479
1629	RODWELL_AGING_KIDNEY_UP	362	Up	0.114548964	0.33245937
1630	WILSON_PROTEASES_AT_TUMOR_BONE_INTERF ACE_UP	17	Up	0.114658891	0.332574132
1631	SCHURINGA_STAT5A_TARGETS_UP	16	Up	0.114881046	0.333014076
1632	CROMER_TUMORIGENESIS_DN	26	Up	0.114986528	0.333115477
1633	RODWELL_AGING_KIDNEY_NO_BLOOD_UP	172	Up	0.115147269	0.333376745
1634	MULLIGHAN_MLL_SIGNATURE_2_UP	352	Up	0.11577337	0.334850216
1635	MURATA_VIRULENCE_OF_H_PILORI	16	Down	0.115797937	0.334850216
1636	ZHANG_INTERFERON_RESPONSE	15	Up	0.116157429	0.335684313
1637	ELLWOOD_MYC_TARGETS_UP	11	Up	0.116423234	0.336181017
1638	BREDEMEYER_RAG_SIGNALING_NOT_VIA_ATM_ UP	49	Up	0.116688035	0.336181017
1639	JAEGER_METASTASIS_UP	38	Down	0.116742317	0.336181017
1640	BIOCARTA_IL6_PATHWAY	21	Up	0.116809368	0.336181017
1641	MIKKELSEN_IPS_LCP_WITH_H3K27ME3	2	Down	0.116813367	0.336181017
1642	ZHAN_V2_LATE_DIFFERENTIATION_GENES	40	Up	1.17E-01	3.36E-01
1643	HOLLEMAN_VINCRIStINE_RESISTANCE_ALL_DN	19	Down	1.17E-01	3.36E-01
1644	LIM_MAMMARY_LUMINAL_MATURE_DN	89	Up	0.1168985	0.336181017
1645	REACTOME_METABOLISM_OF_NON_CODING_RN A	48	Down	0.117531088	0.337794643
1646	MASRI_RESISTANCE_TO_TAMOXIFEN_AND_ARO MATASE_INHIBITORS_UP	12	Down	0.11763235	0.337880153
1647	HILLION_HMGA1B_TARGETS	78	Up	0.117764721	0.338054865
1648	CHEN_HOXA5_TARGETS_9HR_UP	208	Up	0.118079614	0.338712143
1649	BIOCARTA_NFKB_PATHWAY	20	Up	0.118137061	0.338712143

	A	B	C	D	E
1650	FIGUEROA_AML_METHYLATION_CLUSTER_7_UP	99	Up	0.118622583	0.339701932
1651	REACTOME_RNA_POL_III_TRANSCRIPTION_INITIATION_FROM_TYPE_2_PROMOTER	22	Down	0.118626071	0.339701932
1652	TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_DN	29	Up	0.11878677	0.339956081
1653	HOFMANN_MYELODYSPLASTIC_SYNDROM_RISK_DN	14	Down	0.119225493	0.341005116
1654	NIELSEN_SCHWANNOMA_DN	16	Down	0.119415339	0.341341485
1655	KAYO_CALORIE_RESTRICTION_MUSCLE_UP	72	Up	0.119528641	0.341458783
1656	SIMBULAN_UV_RESPONSE_NORMAL_DN	32	Up	0.119645984	0.341587478
1657	TESAR_JAK_TARGETS_MOUSE_ES_D3_UP	2	Up	0.119774788	0.341748717
1658	KEGG_WNT_SIGNALING_PATHWAY	125	Down	0.119945019	0.342027892
1659	YAGI_AML_RELAPSE_PROGNOSIS	31	Up	0.120050215	0.34212139
1660	WIEMANN_TELOMERE_SHORTENING_AND_CHROMINIC_LIVER_DAMAGE_UP	7	Down	0.120136298	0.342160344
1661	RANKIN_ANGIOGENIC_TARGETS_OF_VHL_HIF2A_UP	4	Up	0.120296298	0.342225668
1662	BOYAULT_LIVER_CANCER_SUBCLASS_G3_UP	187	Down	0.120304092	0.342225668
1663	LA_MEN1_TARGETS	22	Up	0.120420261	0.34235002
1664	KREPEL_CD99_TARGETS_DN	7	Up	0.12085605	0.343382342
1665	BURTON_ADIPOGENESIS_4	45	Down	0.121313512	0.344474967
1666	SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_DN	82	Up	0.121460304	0.344684645
1667	ZAMORA_NOS2_TARGETS_UP	63	Up	0.121746174	0.345288519
1668	WEI_MIR34A_TARGETS	142	Up	0.121870609	0.345434091
1669	MIKKELSEN_PARTIALLY_REPROGRAMMED_TO_PLURIPOTENCY	7	Up	0.122069178	0.345789488
1670	FORTSCHEGGER_PHF8_TARGETS_DN	708	Up	0.122203365	0.345962192
1671	KEGG_VASCULAR_SMOOTH_MUSCLE_CONTRACTION	85	Up	0.122541097	0.346710589
1672	LEI_HOXC8_TARGETS_UP	8	Down	0.122628164	0.346749296
1673	BILANGES_RAPAMYCIN_SENSITIVE_GENES	37	Up	0.122837658	0.347133933

	A	B	C	D	E
1674	PILON_KLF1_TARGETS_UP	406	Up	0.122978394	0.347323917
1675	REACTOME_FACTORS_INVOLVED_IN_MEGAKARYOCYTE_DEVELOPMENT_AND_PLATELET_PRODUCTION	91	Down	0.123108934	0.347377735
1676	MOTAMED_RESPONSE_TO_ANDROGEN_UP	3	Up	0.123144488	0.347377735
1677	XU_GH1_AUTOCRINE_TARGETS_UP	196	Up	0.123249479	0.347466461
1678	GRAESSMANN_RESPONSE_TO_MC_AND_SERUM_DEPRIVATION_DN	71	Up	0.123491937	0.347933532
1679	PID_TCR_CALCIIUM_PATHWAY	20	Up	0.123562427	0.347933532
1680	REACTOME_SIGNAL_ATTENUATION	12	Up	0.123835887	0.348428988
1681	KEGG_ANTIGEN_PROCESSING_AND_PRESENTATION	45	Up	0.123885862	0.348428988
1682	REACTOME_N_GLYCAN_TRIMMING_IN_THE_ER_AND_CALNEXIN_CALRETICULIN_CYCLE	13	Up	0.124027322	0.348542141
1683	KARLSSON_TGFB1_TARGETS_UP	123	Up	1.24E-01	3.49E-01
1684	EHRlich_ICF_SYNDROM_UP	9	Up	1.24E-01	3.49E-01
1685	PID_EPO_PATHWAY	32	Up	0.124384324	0.348939376
1686	REACTOME_FRS2_MEDIATED_CASCADE	24	Down	0.124449761	0.348939376
1687	KANG_GIST_WITH_PDGFR_A_UP	40	Up	0.124550791	0.348939376
1688	KOINUMA_COLON_CANCER_MSI_UP	13	Down	0.124713932	0.348939376
1689	WEST_ADRENOCORTICAL_CARCINOMA_VS_ADENOMA_DN	17	Up	0.124806257	0.348939376
1690	FOSTER_TOLERANT_MACROPHAGE_DN	367	Up	0.124870473	0.348939376
1691	WELCSH_BRCA1_TARGETS_UP	189	Up	0.124995206	0.348939376
1692	LABBE_WNT3A_TARGETS_UP	93	Up	0.125009918	0.348939376
1693	KEGG_FOLATE_BIOSYNTHESIS	9	Up	0.125111853	0.348939376
1694	BIOCARTA_P38MAPK_PATHWAY	35	Up	0.125138441	0.348939376
1695	WANG_RESPONSE_TO_PACLITAXEL_VIA_MAPK8_DN	4	Up	0.125161177	0.348939376
1696	ZEMBUTSU_SENSITIVITY_TO_VINCRIStINE	13	Up	0.125203958	0.348939376
1697	REACTOME_PEROXISOMAL_LIPID_METABOLISM	20	Up	0.125248927	0.348939376

	A	B	C	D	E
1698	RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_UP	671	Up	0.125442157	0.349271768
1699	PANGAS_TUMOR_SUPPRESSION_BY_SMAD1_AND_SMAD5_DN	146	Up	0.125761492	0.349954682
1700	FALVELLA_SMOKERS_WITH_LUNG_CANCER	63	Up	0.126071254	0.350610167
1701	REACTOME_ACETYLCHOLINE_NEUROTRANSMITTER_RELEASE_CYCLE	6	Down	0.12623593	0.350861628
1702	HOSHIDA_LIVER_CANCER_LATE_RECURRENCE_DN	55	Up	0.126377851	0.351049586
1703	VANDESLUIS_COMMD1_TARGETS_GROUP_3_UP	68	Up	0.126589737	0.351431557
1704	FEVR_CTNNB1_TARGETS_DN	513	Down	0.12703962	0.352473403
1705	ABBUD_LIF_SIGNALING_2_UP	11	Up	0.127329126	0.352894151
1706	KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_CHONDROITIN_SULFATE	21	Down	0.127340641	0.352894151
1707	LOPEZ_MESOTHELIOMA_SURVIVAL_OVERALL_UP	5	Up	0.127462531	0.353024888
1708	MATZUK_SPERMATOCYTE	58	Down	0.127619236	0.35325184
1709	AZARE_STAT3_TARGETS	19	Up	0.127696611	0.353259066
1710	FONTAINE_PAPILLARY_THYROID_CARCINOMA_DN	50	Up	0.127903367	0.353623996
1711	ROSS_AML_WITH_PML_RARA_FUSION	63	Up	0.127986887	0.353647976
1712	REACTOME_BMAL1_CLOCK_NPAS2_ACTIVATES_CIRCADIAN_EXPRESSION	34	Up	0.128131324	0.353840155
1713	SHIRAISHI_PLZF_TARGETS_UP	9	Up	0.128439273	0.35448339
1714	LANDIS_ERBB2_BREAST_TUMORS_65_DN	31	Up	0.128591208	0.354695539
1715	WARTERS_IR_RESPONSE_5GY	35	Down	0.128939875	0.35513838
1716	KEGG_REGULATION_OF_ACTIN_CYTOSKELETON	166	Up	0.128960326	0.35513838
1717	BIOCARTA_TNFR2_PATHWAY	17	Up	0.12897724	0.35513838
1718	KEGG_ASCORBATE_AND_ALDARATE_METABOLISM	6	Up	0.129053915	0.355142544

	A	B	C	D	E
1719	LOPEZ_MESOTHELIOMA_SURVIVAL_WORST_VS_BEST_DN	3	Up	0.129810938	0.357017858
1720	LANG_MYB_FAMILY_TARGETS	28	Up	0.129916049	0.357099087
1721	BYSTRYKH_HEMATOPOIESIS_STEM_CELL_QTL_CIS	105	Up	0.130450538	0.358359763
1722	TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_UP	97	Up	0.130536051	0.358386311
1723	PID_S1P_S1P1_PATHWAY	19	Up	0.130712045	0.3586611
1724	BIERIE_INFLAMMATORY_RESPONSE_TGFB1	2	Up	1.31E-01	3.59E-01
1725	WANG_CISPLATIN_RESPONSE_AND_XPC_DN	202	Up	1.31E-01	3.59E-01
1726	SANA_TNF_SIGNALING_DN	75	Up	0.131302581	0.359654897
1727	WOOD_EBV_EBNA1_TARGETS_DN	38	Up	0.131721317	0.36059283
1728	OSMAN_BLADDER_CANCER_DN	372	Down	0.132123182	0.361483518
1729	KYNG_WERNER_SYNDROM_DN	25	Up	0.132378468	0.361972373
1730	REACTOME_TRANSCRIPTIONAL_REGULATION_OF_WHITE_ADIPOCYTE_DIFFERENTIATION	60	Down	0.132607375	0.362388576
1731	REACTOME_NOTCH_HLH_TRANSCRIPTION_PATHWAY	11	Down	0.132686348	0.362394794
1732	NAKAYAMA_SOFT_TISSUE_TUMORS_PCA1_UP	30	Up	0.132809175	0.362520711
1733	TERAO_AOX4_TARGETS_HG_UP	27	Up	0.13300284	0.362668264
1734	VILIMAS_NOTCH1_TARGETS_UP	26	Up	0.133016741	0.362668264
1735	HOLLEMAN_DAUNORUBICIN_B_ALL_DN	12	Down	0.133547022	0.363753563
1736	AKL_HTLV1_INFECTION_UP	26	Up	0.133568769	0.363753563
1737	BILANGES_SERUM_SENSITIVE_VIA_TSC1	18	Up	0.134022347	0.364622118
1738	DAZARD_UV_RESPONSE_CLUSTER_G5	9	Down	0.134113701	0.364622118
1739	KEGG_LYSINE_DEGRADATION	43	Up	0.134119204	0.364622118
1740	FOSTER_KDM1A_TARGETS_DN	194	Down	0.134323199	0.364917471
1741	BIOCARTA_IL17_PATHWAY	3	Down	0.134382307	0.364917471
1742	BHAT_ESR1_TARGETS_NOT_VIA_AKT1_UP	183	Up	0.13453257	0.365115678
1743	BIOCARTA_CD40_PATHWAY	14	Up	0.134906688	0.365787137
1744	WANG_THOC1_TARGETS_DN	11	Up	0.134959302	0.365787137
1745	ZIRN_TRETINOIN_RESPONSE_UP	18	Up	0.135012226	0.365787137

	A	B	C	D	E
1746	LINDSTEDT_DENDRITIC_CELL_MATURATION_D	50	Up	0.135282046	0.366308119
1747	BIOCARTA_UCALPAIN_PATHWAY	16	Up	0.13549012	0.36656839
1748	REACTOME_BOTULINUM_NEUROTOXICITY	16	Down	0.135533329	0.36656839
1749	YOSHIOKA_LIVER_CANCER_EARLY_RECURRENCE_UP	32	Down	0.135973004	0.367539953
1750	PID_VEGFR1_PATHWAY	26	Up	0.136048122	0.367539953
1751	BIOCARTA_AKT_PATHWAY	18	Down	0.136607447	0.368725979
1752	SANDERSON_PPARA_TARGETS	11	Up	0.136643215	0.368725979
1753	WANG_RESPONSE_TO_PACLITAXEL_VIA_MAPK8_UP	12	Up	0.136903267	0.369129257
1754	KAUFFMANN_DNA_REPLICATION_GENES	129	Down	0.13707795	0.369129257
1755	ACEVEDO_LIVER_TUMOR_VS_NORMAL_ADJACENT_TISSUE_DN	209	Up	0.137085527	0.369129257
1756	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_18	5	Up	0.137105153	0.369129257
1757	RAO_BOUND_BY_SALL4	194	Up	0.137321483	0.369402289
1758	STEGER_ADIPOGENESIS_DN	19	Up	0.13738888	0.369402289
1759	SA_REG_CASCADE_OF_CYCLIN_EXPR	11	Up	0.137584289	0.369402289
1760	PID_EPHRINB_REV_PATHWAY	24	Down	0.137586016	0.369402289
1761	BAUS_TFF2_TARGETS_UP	16	Down	0.137597466	0.369402289
1762	WOTTON_RUNX_TARGETS_DN	23	Up	0.137943774	0.37012171
1763	RICKMAN_HEAD_AND_NECK_CANCER_A	77	Up	0.138170943	0.370252462
1764	SMID_BREAST_CANCER_RELAPSE_IN_BONE_UP	60	Up	0.138173193	0.370252462
1765	BOQUEST_STEM_CELL_UP	189	Up	1.38E-01	3.70E-01
1766	KIM_WT1_TARGETS_DN	435	Down	1.38E-01	3.70E-01
1767	ST_G_ALPHA_I_PATHWAY	27	Up	0.138466952	0.370473583
1768	BRUECKNER_TARGETS_OF_MIRLET7A3_UP	92	Up	0.138656634	0.370771135
1769	MARTINEZ_TP53_TARGETS_UP	472	Up	0.13891719	0.371195128
1770	DACOSTA_UV_RESPONSE_VIA_ERCC3_XPCS_UP	25	Down	0.138972313	0.371195128
1771	WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCER_UP	17	Up	0.139171338	0.371516708
1772	REACTOME_SIGNALING_BY_CONSTITUTIVELY_ACTIVATED_EGFR	17	Down	0.13962032	0.372504807

	A	B	C	D	E
1773	BOYLAN_MULTIPLE_MYELOMA_D_CLUSTER_DN	36	Up	0.139935702	0.373135548
1774	BIOCARTA_RHO_PATHWAY	31	Up	0.14006131	0.373259837
1775	SENESE_HDAC2_TARGETS_UP	96	Up	0.140266892	0.373596993
1776	MAHADEVAN_GIST_MORPHOLOGICAL_SWITCH	14	Up	0.140383951	0.373698124
1777	KEGG_VALINE_LEUCINE_AND_ISOLEUCINE_BIOSYNTHESIS	10	Up	0.140546331	0.373840046
1778	REACTOME_RORA_ACTIVATES_CIRCADIAN_EXPRESSION	24	Down	0.140595505	0.373840046
1779	DUTERTRE ESTRADIOL_RESPONSE_24HR_UP	308	Down	0.140843381	0.374288513
1780	REACTOME_SIGNALING_BY_NOTCH1	64	Down	0.140958701	0.374384409
1781	SILIGAN_TARGETS_OF_EWS_FLI1_FUSION_UP	14	Up	0.14139874	0.375342161
1782	MURAKAMI_UV_RESPONSE_6HR_UP	31	Up	0.141756281	0.376079971
1783	DER_IFN_ALPHA_RESPONSE_UP	65	Up	0.141979518	0.376460842
1784	SCHLOSSER_SERUM_RESPONSE_DN	638	Up	0.14248648	0.377593168
1785	FARMER_BREAST_CANCER_CLUSTER_5	18	Down	0.142884942	0.378436855
1786	KANG_GIST_WITH_PDGFR_A_DN	4	Up	0.143123767	0.378795728
1787	BIOCARTA_MITOCHONDRIA_PATHWAY	19	Up	0.143180777	0.378795728
1788	ST_G_ALPHA_S_PATHWAY	13	Up	0.144105896	0.381029859
1789	BROWNE_HCMV_INFECTION_48HR_DN	399	Up	0.144383713	0.381550919
1790	REACTOME_MRNA_DECAY_BY_3_TO_5_EXORIBONUCLEASE	11	Down	0.144464857	0.381551955
1791	REACTOME_SIGNALING_BY_INSULIN_RECEPTOR	86	Up	0.144552476	0.381570083
1792	CHIARETTI_T_ALL_RELAPSE_PROGNOSIS	16	Down	0.1448704	0.382175888
1793	FONTAINE_PAPILLARY_THYROID_CARCINOMA_UP	52	Up	0.144943744	0.382175888
1794	CONRAD_STEM_CELL	37	Down	0.145211264	0.382667721
1795	GRAHAM_NORMAL QUIESCENT_VS_NORMAL_DIVIDING_UP	42	Up	0.145386163	0.382913435
1796	REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS	11	Up	0.145466585	0.382913435
1797	DURAND_STROMA_S_UP	248	Up	0.145562103	0.382951523

	A	B	C	D	E
1798	ZUCCHI_METASTASIS_DN	35	Down	0.145828309	0.383438375
1799	MATZUK_EMBRYONIC_GERM_CELL	15	Down	0.146169428	0.38387237
1800	REACTOME_NOREPINEPHRINE_NEUROTRANSMITTER_RELEASE_CYCLE	8	Down	0.146218749	0.38387237
1801	KEGG_DILATED_CARDIOMYOPATHY	62	Up	0.146375581	0.38387237
1802	MITSIADES_RESPONSE_TO_APLIDIN_UP	390	Up	0.146460071	0.38387237
1803	RAMALHO_STEMNESS_UP	204	Up	0.14646059	0.38387237
1804	LI_CYTIDINE_ANALOG_PATHWAY	12	Up	0.146480822	0.38387237
1805	HEIDENBLAD_AMPLICON_8Q24_UP	35	Down	0.146924241	0.384820974
1806	WATANABE_RECTAL_CANCER_RADIO_THERAPY_RESPONSE_UP	100	Up	1.47E-01	3.85E-01
1807	SU_PLACENTA	15	Up	1.47E-01	3.85E-01
1808	WANG_RECURRENT_LIVER_CANCER_DN	15	Up	0.147244815	0.385020337
1809	CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_1	472	Up	0.147603623	0.385619238
1810	HUMMEL_BURKITT'S_LYMPHOMA_DN	13	Up	0.14763708	0.385619238
1811	GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDING_DN	6	Up	0.147823652	0.385893236
1812	COLDREN_GEFITINIB_RESISTANCE_DN	193	Up	0.147938315	0.385979314
1813	GRATIAS_RETINOBLASTOMA_16Q24	17	Up	0.148316466	0.386567993
1814	NOUZOVA_METHYLATED_IN_APL	48	Up	0.148327571	0.386567993
1815	REACTOME_SIGNALING_BY_RHO_GTPASES	100	Down	0.14881203	0.387353315
1816	FIGUEROA_AML_METHYLATION_CLUSTER_6_UP	116	Up	0.148880306	0.387353315
1817	MIYAGAWA_TARGETS_OF_EWSR1_ETS_FUSIONS_UP	219	Up	0.148880514	0.387353315
1818	TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_UP	121	Up	0.14895682	0.387353315
1819	BENPORATH_PRC2_TARGETS	286	Down	0.149080969	0.387364962
1820	MALIK_REPRESSED_BY_ESTROGEN	11	Down	0.149125263	0.387364962
1821	BIOCARTA_TOLL_PATHWAY	29	Up	0.149364614	0.387773518
1822	KEGG_GLIOMA	55	Up	0.149525249	0.387935918

	A	B	C	D	E
1823	PID_SYNDECAN_3_PATHWAY	14	Up	0.149591374	0.387935918
1824	BIOCARTA_INTRINSIC_PATHWAY	12	Up	0.15005991	0.388726457
1825	KASLER_HDAC7_TARGETS_2_UP	2	Down	0.150124431	0.388726457
1826	MCBRYAN_PUBERTAL_BREAST_4_5WK_DN	172	Up	0.150143023	0.388726457
1827	MIKKELSEN_MCV6_HCP_WITH_H3K27ME3	252	Down	0.150336036	0.389013018
1828	HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPH OCYTE_DN	59	Up	0.15060018	0.38927075
1829	GYORFFY_MITOXANTRONE_RESISTANCE	42	Up	0.150680489	0.38927075
1830	KIM_ALL_DISORDERS_CALB1_CORR_UP	522	Up	0.150682794	0.38927075
1831	LASTOWSKA_NEUROBLASTOMA_COPY_NUMBER _UP	166	Down	0.150918039	0.38966543
1832	RODRIGUES_THYROID_CARCIOMA_POORLY_DIF FERENTIATED_UP	622	Up	0.151039077	0.389684958
1833	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPH OLIPIDS_RED_DN	22	Down	0.151090549	0.389684958
1834	JU_AGING_TERC_TARGETS_DN	2	Down	0.151511327	0.390486835
1835	REACTOME_TRANSPORT_OF_ORGANIC_ANIONS	5	Up	0.151566742	0.390486835
1836	ZHANG_PROLIFERATING_VS_QUIESCENT	47	Up	0.151737749	0.390714367
1837	GRADE_COLON_VS_RECTAL_CANCER_UP	32	Up	0.152101994	0.39127174
1838	POMEROY_MEDULLOBLASTOMA_DESMOPLASIC_ VS_CLASSIC_UP	49	Down	0.152161975	0.39127174
1839	KEGG_AMINO_SUGAR_AND_NUCLEOTIDE_SUGA R_METABOLISM	41	Up	0.152202636	0.39127174
1840	KIM_TIAL1_TARGETS	29	Up	0.152863987	0.392758204
1841	YAO_HOXA10_TARGETS_VIA_PROGESTERONE_D N	11	Up	0.15299518	0.392881645
1842	TOOKER_GEMCITABINE_RESISTANCE_UP	74	Up	0.153091885	0.392916434
1843	ZERBINI_RESPONSE_TO_SULINDAC_DN	6	Down	0.153207371	0.392999364
1844	KEGG_HUNTINGTONS_DISEASE	162	Down	0.1534076	0.393299463
1845	YEMELYANOV_GR_TARGETS_DN	8	Up	0.153855305	0.39423336
1846	REACTOME_MRNA_3_END_PROCESSING	34	Down	0.154218347	0.394949426

	A	B	C	D	E
1847	ELVIDGE_HIF1A_AND_HIF2A_TARGETS_UP	41	Up	1.54E-01	3.95E-01
1848	BIOCARTA_PDGF_PATHWAY	30	Up	1.55E-01	3.96E-01
1849	SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_DN	555	Up	0.155467863	0.397358038
1850	SCHLINGEMANN_SKIN_CARCINOGENESIS_TPA_UP	29	Down	0.155495241	0.397358038
1851	MCBRYAN_PUBERTAL_BREAST_3_4WK_DN	33	Up	0.155586122	0.397375367
1852	GHANDHI_DIRECT_IRRADIATION_UP	74	Up	0.156091944	0.398395133
1853	BIOCARTA_G1_PATHWAY	25	Up	0.156154029	0.398395133
1854	INGRAM_SHH_TARGETS	6	Up	0.156350462	0.398681021
1855	TIAN_TNF_SIGNALING_VIA_NFKB	20	Up	0.15661895	0.399111506
1856	CROONQUIST_NRAS_VS_STROMAL_STIMULATION_UP	28	Up	0.156688221	0.399111506
1857	REACTOME_DEPOSITION_OF_NEW_CENPA_CONTAINING_NUCLEOSOMES_AT_THE_CENTROMERE	40	Down	0.157177338	0.40014166
1858	LOPEZ_MBD_TARGETS_IMPRINTED_AND_X_LINKED	14	Down	0.157357306	0.400384098
1859	PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_7	349	Up	0.157580979	0.40073742
1860	RORIE_TARGETS_OF_EWSR1_FLI1_FUSION_DN	20	Up	0.157721049	0.40080409
1861	RAY_TUMORIGENESIS_BY_ERBB2_CDC25A_UP	77	Up	0.157855785	0.40080409
1862	SPIRA_SMOKERS_LUNG_CANCER_UP	30	Up	0.157887132	0.40080409
1863	DUNNE_TARGETS_OF_AML1_MTG8_FUSION_DN	16	Up	0.157946501	0.40080409
1864	GRABARCZYK_BCL11B_TARGETS_UP	67	Up	0.158040894	0.400828354
1865	ZEMBUTSU_SENSITIVITY_TO_NIMUSTINE	13	Down	0.158204958	0.401029198
1866	PEPPER_CHRONIC_LYMPHOCYTIC_LEUKEMIA_DN	13	Up	0.158360414	0.40120802
1867	BENPORATH_SOX2_TARGETS	718	Down	0.158794647	0.402092555
1868	MATTIOLI_MULTIPLE_MYELOMA_SUBGROUPS	11	Up	0.158911157	0.402094596
1869	SHIN_B_CELL_LYMPHOMA_CLUSTER_1	6	Down	0.158965652	0.402094596

	A	B	C	D	E
1870	HOLLEMAN_DAUNORUBICIN_ALL_DN	8	Down	0.159218299	0.402439705
1871	BIOCARTA_CHEMICAL_PATHWAY	22	Up	0.159272434	0.402439705
1872	TAKAYAMA_BOUND_BY_AR	8	Up	0.159998946	0.403714355
1873	CAFFAREL_RESPONSE_TO_THC_8HR_3_DN	10	Down	0.160012377	0.403714355
1874	LI_CISPLATIN_RESISTANCE_DN	25	Up	0.160033225	0.403714355
1875	REACTOME_SLBP_DEPENDENT_PROCESSING_OF_REPLICATION_DEPENDENT_HISTONE_PRE_MRNAS	11	Down	0.160710761	0.405207228
1876	DE_YY1_TARGETS_DN	86	Up	0.16101565	0.405759439
1877	BIOCARTA_MTOR_PATHWAY	23	Down	0.161231736	0.405839622
1878	FARDIN_HYPOXIA_11	32	Up	0.161284128	0.405839622
1879	HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_UP	380	Up	0.161305145	0.405839622
1880	PID_FCER1_PATHWAY	51	Up	0.161483881	0.405945196
1881	PIONTEK_PKD1_TARGETS_DN	13	Up	0.161518935	0.405945196
1882	SMID_BREAST_CANCER_LUMINAL_A_DN	16	Down	0.161829868	0.40611968
1883	CHEOK_RESPONSE_TO_MERCAPTOPYRIMIDINE_AND_HD_MTX_UP	5	Down	0.161924569	0.40611968
1884	KEGG_GLYCEROLIPID_METABOLISM	39	Up	0.161951567	0.40611968
1885	MITSIADES_RESPONSE_TO_APLIDIN_DN	246	Down	0.162057678	0.40611968
1886	MOROSETTI_FACIOSCAPULOHUMERAL_MUSCULAR_DISTROPHY_DN	11	Up	0.162088628	0.40611968
1887	CHANGOLKAR_H2AFY_TARGETS_UP	41	Up	0.162104067	0.40611968
1888	REACTOME_PEPTIDE_LIGAND_BINDING_RECEPTORS	50	Up	1.62E-01	4.07E-01
1889	LEE_AGING_CEREBELLUM_UP	62	Up	1.63E-01	4.07E-01
1890	MIKKELSEN_PLURIPOTENT_STATE_UP	9	Down	0.16261765	0.406759343
1891	OSWALD_HEMATOPOIETIC_STEM_CELL_IN_COLLAGEN_GEL_UP	183	Up	0.162885652	0.40721413
1892	LEIN_LOCALIZED_TO_PROXIMAL_DENDRITES	32	Up	0.163254001	0.407919173
1893	REACTOME_SHC_MEDIATED_CASCADE	16	Down	0.163893376	0.409300319
1894	IKEDA_MIR30_TARGETS_DN	25	Down	0.16407656	0.409541334

	A	B	C	D	E
1895	BARRIER_CANCER_RELAPSE_TUMOR_SAMPLE_D N	12	Up	0.164511143	0.410409267
1896	LIANG_SILENCED_BY_METHYLATION_DN	11	Down	0.164780375	0.410863996
1897	NUNODA_RESPONSE_TO_DASATINIB_IMATINIB_ DN	12	Up	0.16496944	0.411118463
1898	PUJANA_BREAST_CANCER_LIT_INT_NETWORK	100	Down	0.165076229	0.411144576
1899	REACTOME_PROTEOLYTIC_CLEAVAGE_OF_SNARE _COMPLEX_PROTEINS	14	Down	0.165153948	0.411144576
1900	CHEMNITZ_RESPONSE_TO_PROSTAGLANDIN_E2_ UP	143	Down	0.165270364	0.411217731
1901	SWEET_LUNG_CANCER_KRAS_DN	313	Up	0.165466531	0.411489136
1902	MAINA_HYPOXIA_VHL_TARGETS_UP	6	Up	0.165828396	0.412172104
1903	ZHAN_EARLY_DIFFERENTIATION_GENES_DN	33	Up	0.165937231	0.412225771
1904	SMIRNOV_RESPONSE_TO_IR_2HR_DN	50	Up	0.166128077	0.412458918
1905	WAKABAYASHI_ADIPOGENESIS_PPARG_RXRA_BO UND_8D	777	Up	0.166205668	0.412458918
1906	EBAUER_TARGETS_OF_PAX3_FOXO1_FUSION_U P	155	Up	0.166704898	0.413480653
1907	BARIS_THYROID_CANCER_DN	51	Up	0.167110303	0.41426872
1908	REACTOME_CREB_PHOSPHORYLATION_THROUG H_THE_ACTIVATION_OF_CAMKII	12	Down	0.167510533	0.414995901
1909	MCCABE_HOXC6_TARGETS_DN	17	Down	0.167579297	0.414995901
1910	SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM6	43	Up	0.168147152	0.416184019
1911	JAZAERI_BREAST_CANCER_BRCA1_VS_BRCA2_D N	33	Down	0.16829399	0.416329374
1912	HOLLEMAN_PREDNISOLONE_RESISTANCE_ALL_U P	19	Down	0.168811909	0.417359488
1913	FERRANDO_HOX11_NEIGHBORS	17	Down	0.168913134	0.417359488
1914	LINDGREN_BLADDER_CANCER_CLUSTER_1_UP	112	Up	0.16899498	0.417359488
1915	COLDREN_GEFITINIB_RESISTANCE_UP	82	Up	0.169063716	0.417359488
1916	LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_L ARGE_VS_TINY_DN	38	Down	0.169458335	0.418115213

	A	B	C	D	E
1917	REACTOME_RNA_POL_I_RNA_POL_III_AND_MITOCHONDRIAL_TRANSCRIPTION	82	Down	0.169741794	0.418514289
1918	KEGG_MELANOGENESIS	77	Down	0.169797226	0.418514289
1919	BYSTRYKH_HEMATOPOIESIS_STEM_CELL_FLI1	6	Up	0.169951757	0.418676774
1920	MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_DN	73	Down	0.170053359	0.418708767
1921	LI_ADIPOGENESIS_BY_ACTIVATED_PPARG	10	Up	0.170237249	0.41894323
1922	OHM_EMBRYONIC_CARCINOMA_UP	6	Down	0.171207252	0.421111019
1923	TIEN_INTESTINE_PROBIOTICS_2HR_UP	26	Up	0.172029752	0.422688771
1924	MCBRYAN_PUBERTAL_TGFB1_TARGETS_DN	46	Up	0.17213638	0.422688771
1925	LEIN_CHOROID_PLEXUS_MARKERS	74	Up	0.172169302	0.422688771
1926	REACTOME_BILE_ACID_AND_BILE_SALT_METABOLISM	13	Up	0.172206759	0.422688771
1927	REACTOME_MAPK_TARGETS_NUCLEAR_EVENTS_MEDIATED_BY_MAP_KINASES	30	Up	0.172295994	0.422688771
1928	ZHOU_INFLAMMATORY_RESPONSE_LPS_UP	276	Up	0.172551508	0.423095939
1929	REACTOME_SYNTHESIS_SECRETION_AND_DEACYLATION_OF_GHRELIN	9	Up	1.73E-01	4.24E-01
1930	REACTOME_XENOBIOTICS	2	Up	1.73E-01	4.24E-01
1931	NIELSEN_LEIOMYOSARCOMA_UP	13	Up	0.173221481	0.424078496
1932	ZHANG_TLX_TARGETS_UP	98	Up	0.173662309	0.424888438
1933	MATZUK_CENTRAL_FOR_FEMALE_FERTILITY	17	Up	0.173734165	0.424888438
1934	CASTELLANO_HRAS_AND_NRAS_TARGETS_DN	8	Up	0.173822085	0.424888438
1935	GUILLAUMOND_KLF10_TARGETS_DN	20	Up	0.173989773	0.425078427
1936	PID_TNF_PATHWAY	43	Up	0.174092771	0.425110255
1937	STARK_PREFRONTAL_CORTEX_22Q11_DELETION_UP	183	Down	0.174334627	0.425480946
1938	KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS	58	Down	0.174525741	0.425727478
1939	HOSHIDA_LIVER_CANCER_SURVIVAL_UP	60	Up	0.174788416	0.426079751
1940	PENG_GLUCOSE_DEPRIVATION_DN	149	Down	0.174850505	0.426079751
1941	BIOCARTA_IL1R_PATHWAY	25	Up	0.174960633	0.426128347
1942	MATHEW_FANCONI_ANEMIA_GENES	11	Up	0.175227115	0.426557505

	A	B	C	D	E
1943	KYNG_ENVIRONMENTAL_STRESS_RESPONSE_NO T_BY_4NQO_IN_WS	37	Up	0.175661853	0.427395601
1944	TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION _HSC_DN	122	Up	0.175919787	0.427802878
1945	WILLERT_WNT_SIGNALING	19	Up	0.176364831	0.428613788
1946	WELCH_GATA1_TARGETS	17	Up	0.17643467	0.428613788
1947	QI_HYPOXIA_TARGETS_OF_HIF1A_AND_FOXA2	36	Down	0.176730435	0.429111668
1948	LIU_IL13_PRIMING_MODEL	14	Up	0.177041188	0.429402661
1949	FIRESTEIN_CTNNB1_PATHWAY	30	Down	0.177075202	0.429402661
1950	TSUNODA_CISPLATIN_RESISTANCE_DN	38	Up	0.177122918	0.429402661
1951	TAVAZOIE_METASTASIS	66	Up	0.177360102	0.429729976
1952	CHIARADONNA_NEOPLASTIC_TRANSFORMATION _KRAS_CDC25_DN	38	Up	0.177439827	0.429729976
1953	REACTOME_SEMA3A_PAK_DEPENDENT_AXON_R EPULSION	14	Down	0.177539268	0.429750533
1954	PID_HEDGEHOG_2PATHWAY	14	Down	0.177670487	0.429795074
1955	BIOCARTA_IL22BP_PATHWAY	11	Up	0.177739592	0.429795074
1956	TERAMOTO_OPN_TARGETS_CLUSTER_8	6	Up	0.177841811	0.429802228
1957	REACTOME_RESOLUTION_OF_AP_SITES_VIA_THE _SINGLE_NUCLEOTIDE_REPLACEMENT_PATHWAY	11	Down	0.177924478	0.429802228
1958	OLSSON_E2F3_TARGETS_UP	25	Up	0.178376303	0.430416136
1959	MIKKELSEN_IPS_LCP_WITH_H3K4ME3	104	Up	0.178383862	0.430416136
1960	ONDER_CDH1_TARGETS_2_DN	364	Up	0.178528675	0.430416136
1961	GALIE_TUMOR_STEMNESS_GENES	5	Up	0.17854299	0.430416136
1962	ELLWOOD_MYC_TARGETS_DN	38	Up	0.17888022	0.431009198
1963	MULLIGHAN_MLL_SIGNATURE_1_DN	186	Up	0.179009898	0.431089585
1964	YIH_RESPONSE_TO_ARSENITE_C2	15	Up	0.179096054	0.431089585
1965	SESTO_RESPONSE_TO_UV_C0	101	Up	0.179357349	0.431498713
1966	HATADA_METHYLATED_IN_LUNG_CANCER_DN	17	Down	0.179589393	0.431837089
1967	NIELSEN_SCHWANNOMA_UP	13	Down	0.179731386	0.431958697
1968	REACTOME_HIV_INFECTION	185	Down	0.179885415	0.432109094

	A	B	C	D	E
1969	BASAKI_YBX1_TARGETS_DN	346	Up	0.180155946	0.432142976
1970	RODRIGUES_THYROID_CARCI _DN	482	Up	1.80E-01	4.32E-01
1971	REACTOME_FORMATION_OF_IN X_IN_GG_NER	19	Down	1.80E-01	4.32E-01
1972	HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACE L_4NM_DN	7	Up	0.180265356	0.432142976
1973	MARTINEZ_RB1_TARGETS_DN	431	Up	0.180610685	0.432578755
1974	HORIUCHI_WTAP_TARGETS_DN	296	Down	0.18063024	0.432578755
1975	UEDA_CENTRAL_CLOCK	82	Up	0.181227496	0.433789218
1976	REACTOME_CHONDROITIN_SULFATE_BIOSYNTHESIS	17	Down	0.181660929	0.434402941
1977	REACTOME_FORMATION_OF_ATP_BY_CHEMIOS MOTIC_COUPLING	15	Down	0.18166777	0.434402941
1978	GENTILE_UV_RESPONSE_CLUSTER_D2	39	Up	0.181788609	0.434472016
1979	SLEBOS_HEAD_AND_NECK_CANCER_WITH_HPV_ UP	68	Up	0.181884176	0.434480653
1980	GRUETZMANN_PANCREATIC_CANCER_DN	176	Up	0.181986009	0.434504242
1981	SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6	433	Down	0.182260533	0.434939908
1982	REACTOME_APOPTOTIC_CLEAVAGE_OF_CELLULAR PROTEINS	34	Up	0.182487285	0.435261193
1983	MADAN_DPPA4_TARGETS	26	Up	0.182865777	0.435943893
1984	BOUDOUKHA_BOUND_BY_IGF2BP2	106	Up	0.18296055	0.435949874
1985	WUNDER_INFLAMMATORY_RESPONSE_AND_CHOLESTEROL_DN	4	Up	0.18321983	0.43634763
1986	REACTOME_UNWINDING_OF_DNA	11	Up	0.183620724	0.436707277
1987	GAZDA_DIAMOND_BLACKFAN_ANEMIA_MYELOID _DN	32	Up	0.183631192	0.436707277
1988	SENESE_HDAC1_TARGETS_DN	235	Up	0.183651658	0.436707277
1989	REACTOME_ACTIVATED_POINT_MUTANTS_OF_F GFR2	6	Down	0.183740543	0.436707277

	A	B	C	D	E
1990	IIZUKA_LIVER_CANCER_PROGRESSION_G2_G3_UP	23	Up	0.184051531	0.437226488
1991	BENPORATH_CYCLING_GENES	611	Down	0.184367375	0.437756706
1992	DEBIASI_APOPTOSIS_BY_REOVIRUS_INFECTION_DN	284	Up	0.18454816	0.437965875
1993	DER_IFN_BETA_RESPONSE_UP	92	Up	0.184922058	0.438632894
1994	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_LIGHTYELLOW_DN	8	Down	0.185147717	0.438881713
1995	REACTOME_CASPASE_MEDIATED_CLEAVAGE_OF_CYTOSKELETAL_PROTEINS	11	Up	0.18522203	0.438881713
1996	CHOW_RASSF1_TARGETS_UP	26	Up	0.185313264	0.438881713
1997	CHEBOTAEV_GR_TARGETS_UP	60	Up	0.185398497	0.438881713
1998	REACTOME_MEMBRANE_TRAFFICKING	116	Up	0.186048919	0.440200873
1999	GABRIELY_MIR21_TARGETS	277	Up	0.186148027	0.440214928
2000	PID_P53_DOWNSTREAM_PATHWAY	119	Up	0.186408585	0.440610588
2001	REACTOME_ERK_MAPK_TARGETS	21	Up	0.186627865	0.44090833
2002	LOPEZ_MESOTHELIOMA_SURVIVAL_WORST_VS_BEST_UP	14	Up	0.187172864	0.441974904
2003	REACTOME_GLYCOGEN_BREAKDOWN_GLYCOGENOLYSIS	15	Up	0.18732011	0.442101658
2004	ELVIDGE_HIF1A_AND_HIF2A_TARGETS_DN	99	Up	0.187652845	0.442665847
2005	MARTINEZ_RB1_TARGETS_UP	543	Up	0.187788412	0.442764595
2006	VERNELL_RETINOBLASTOMA_PATHWAY_UP	70	Up	0.188103007	0.443117118
2007	BIOCARTA_41BB_PATHWAY	13	Up	0.188125489	0.443117118
2008	JIANG_HYPOXIA_VIA_VHL	34	Up	0.188222554	0.443124847
2009	REACTOME_METABOLISM_OF_NUCLEOTIDES	63	Up	0.18861163	0.443819696
2010	BASSO_CD40_SIGNALING_UP	77	Up	0.188762528	0.443953681
2011	BANDRES_RESPONSE_TO_CARMUSTIN_WITHOUT_MGMT_48HR_UP	11	Down	1.90E-01	4.46E-01
2012	CORRE_MULTIPLE_MYELOMA_DN	46	Up	1.90E-01	4.47E-01
2013	SETLUR_PROSTATE_CANCER_TMPRSS2_ERG_FUSION_DN	10	Up	0.190506839	0.447388079

	A	B	C	D	E
2014	HAN_SATB1_TARGETS_UP	340	Up	0.19131144	0.449054423
2015	ZHENG_GLIOMASTOMA_PLASTICITY_DN	53	Up	0.191411051	0.449065152
2016	LI_CISPLATIN_RESISTANCE_UP	24	Up	0.191741541	0.449617261
2017	REACTOME_TRANSPORT_OF_GLUCOSE_AND_OTHER_SUGARS_BILE_SALTS_AND_ORGANIC_ACIDS_METAL_IONS_AND_AMINE_COMPOUNDS	46	Up	0.191990353	0.449977389
2018	SARTIPIY_BLUNTED_BY_INSULIN_RESISTANCE_DN	16	Up	0.192519236	0.450756099
2019	TORCHIA_TARGETS_OF_EWSR1_FLI1_FUSION_T OP20_UP	15	Up	0.192602787	0.450756099
2020	HALMOS_CEBPA_TARGETS_DN	37	Up	0.192608797	0.450756099
2021	CHIARETTI_T_ALL_REFRACTORY_TO_THERAPY	20	Up	0.192722578	0.4507991
2022	LEE_LIVER_CANCER_MYC_TGFA_DN	37	Up	0.19336064	0.4520678
2023	REACTOME_CTNNB1_PHOSPHORYLATION_CASCADE	16	Down	0.193814502	0.452904809
2024	SU_THYMUS	9	Down	0.194319628	0.453860724
2025	FIGUEROA_AML_METHYLATION_CLUSTER_5_UP	10	Up	0.194715678	0.454561056
2026	IRITANI_MAD1_TARGETS_UP	9	Up	0.194860519	0.454674545
2027	KINNEY_DNMT1_METHYLATION_TARGETS	3	Up	0.195065101	0.454927247
2028	KEGG_NITROGEN_METABOLISM	17	Up	0.195294653	0.455237905
2029	REACTOME_RNA_POL_III_TRANSCRIPTION	32	Down	0.195653121	0.455810164
2030	XU_RESPONSE_TO_TRETINOIN_DN	10	Up	0.195733084	0.455810164
2031	KYNG_RESPONSE_TO_H2O2_VIA_ERCC6	14	Down	0.1962675	0.456645766
2032	FIGUEROA_AML_METHYLATION_CLUSTER_1_UP	98	Up	0.196285196	0.456645766
2033	COLLIS_PRKDC_SUBSTRATES	19	Down	0.196600156	0.456894552
2034	MIKKELSEN_ES_ICP_WITH_H3K4ME3_AND_H3K27 ME3	76	Down	0.196648426	0.456894552
2035	KEGG_CARDIAC_MUSCLE_CONTRACTION	60	Down	0.196682226	0.456894552
2036	REACTOME_METAL_ION_SLC_TRANSPORTERS	16	Up	0.196992962	0.457215145
2037	REACTOME_DIABETES_PATHWAYS	111	Up	0.197013764	0.457215145

	A	B	C	D	E
2038	BAKKER_FOXO3_TARGETS_DN	153	Down	0.197403829	0.457895479
2039	MORI_IMMATURE_B_LYMPHOCYTE_UP	42	Up	0.197936273	0.458905245
2040	CAMPS_COLON_CANCER_COPY_NUMBER_UP	62	Down	0.198094285	0.459046344
2041	REACTOME_SIGNALING_BY_NOTCH	96	Down	0.198221479	0.459061041
2042	FIGUEROA_AML_METHYLATION_CLUSTER_3_UP	142	Up	0.198364371	0.459061041
2043	SMID_BREAST_CANCER_NORMAL_LIKE_UP	266	Up	0.198392094	0.459061041
2044	BILANGES_RAPAMYCIN_SENSITIVE_VIA_TSC1_AND_TSC2	71	Down	0.199011155	0.460180803
2045	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_14	3	Up	0.199070807	0.460180803
2046	VANDESLUIS_COMMD1_TARGETS_GROUP_4_DN	8	Up	0.200414399	0.463060164
2047	VANLOO_SP3_TARGETS_UP	6	Up	0.20078214	0.463683094
2048	KEGG_GAP_JUNCTION	72	Up	0.20093471	0.463808746
2049	HINATA_NFKB_TARGETS_KERATINOCYTE_DN	16	Up	0.201364481	0.464573814
2050	ISHIKAWA_STING_SIGNALING	6	Down	0.201639251	0.464980704
2051	BIOCARTA_IL12_PATHWAY	8	Up	0.201787517	0.465095618
2052	CASTELLANO_NRAS_TARGETS_DN	13	Up	2.02E-01	4.65E-01
2053	RAMJAUN_APOPTOSIS_BY_TGFB1_VIA_MAPK1_UP	6	Down	2.02E-01	4.65E-01
2054	PID_PDGFRB_PATHWAY	123	Up	0.20223323	0.465441798
2055	GUO_HEX_TARGETS_DN	52	Up	0.202845351	0.466623311
2056	FRASOR_RESPONSE_TO ESTRADIOL_UP	31	Up	0.203130984	0.466907449
2057	YAMASHITA_LIVER_CANCER_STEM_CELL_UP	38	Down	0.2031665	0.466907449
2058	OLSSON_E2F3_TARGETS_DN	40	Down	0.203655457	0.467803615
2059	IVANOV_MUTATED_IN_COLON_CANCER	13	Down	0.203831017	0.467979376
2060	MENSSEN_MYC_TARGETS	51	Down	0.203974843	0.46799256
2061	REACTOME_NRAGE_SIGNALS_DEATH_THROUGH_JNK	41	Down	0.204034852	0.46799256
2062	MUELLER_PLURINET	291	Down	0.204404538	0.468613023
2063	REACTOME_ERKS_ARE_INACTIVATED	12	Up	0.204598428	0.468763877
2064	SANSOM_WNT_PATHWAY_REQUIRE_MYC	45	Up	0.204668757	0.468763877

	A	B	C	D	E
2065	NAGASHIMA_NRG1_SIGNALING_DN	46	Up	0.205228526	0.469797356
2066	HU_ANGIOGENESIS_UP	19	Up	0.205318844	0.469797356
2067	BIOCARTA_MPR_PATHWAY	31	Up	0.2055835	0.470112058
2068	KEGG_ALDOSTERONE_REGULATED_SODIUM_REABSORPTION	32	Down	0.20565537	0.470112058
2069	REACTOME_G_ALPHA_S_SIGNALING_EVENTS	60	Up	0.205824876	0.470190412
2070	PUIFFE_INVASION_INHIBITED_BY_ASCITES_UP	77	Down	0.205916832	0.470190412
2071	BIOCARTA_HDAC_PATHWAY	23	Down	0.206004714	0.470190412
2072	CHIANG_LIVER_CANCER_SUBCLASS_INTERFERON_UP	13	Up	0.206087692	0.470190412
2073	REACTOME_ZINC_TRANSPORTERS	11	Up	0.206935753	0.471753445
2074	SMID_BREAST_CANCER_BASAL_DN	518	Up	0.206972464	0.471753445
2075	LIU_SOX4_TARGETS_UP	130	Up	0.207156288	0.471944773
2076	HUMMERICH_SKIN_CANCER_PROGRESSION_UP	70	Up	0.207491321	0.47235434
2077	LEIN_PONS_MARKERS	69	Up	0.207600064	0.47235434
2078	BIOCARTA_GLEEVEC_PATHWAY	22	Up	0.207635971	0.47235434
2079	HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETAXEL_4NM_UP	14	Up	0.207749727	0.472385689
2080	MIKKELSEN_MCV6_ICP_WITH_H3K4ME3_AND_H3K27ME3	17	Up	0.207997433	0.472721439
2081	LABBE_TGFB1_TARGETS_UP	79	Up	0.208119183	0.47277074
2082	BENPORATH_ES_1	378	Down	0.208935456	0.474203423
2083	PID_ECADHERIN_STABILIZATION_PATHWAY	39	Up	0.208950588	0.474203423
2084	REACTOME_INTEGRIN_CELL_SURFACE_INTERACTIONS	60	Up	0.209354174	0.474618961
2085	MAHADEVAN_IMATINIB_RESISTANCE_DN	11	Down	0.209355951	0.474618961
2086	REACTOME_RNA_POL_I_PROMOTER_OPENING	27	Down	0.209435034	0.474618961
2087	LABBE_TARGETS_OF_TGFB1_AND_WNT3A_UP	92	Up	0.209734983	0.475070852
2088	GAVIN_FOXP3_TARGETS_CLUSTER_P3	122	Up	0.209916486	0.475254142
2089	HERNANDEZ_MITOTIC_ARREST_BY_DOCETAXEL_1_UP	24	Up	0.21006544	0.475363604
2090	ROPERO_HDAC2_TARGETS	75	Up	0.210201331	0.475443412

	A	B	C	D	E
2091	PID_AP1_PATHWAY	52	Up	0.211402614	0.477806354
2092	KUMAR_TARGETS_OF_MLL_AF9_FUSION	296	Up	0.211514335	0.477806354
2093	WEBER_METHYLATED_HCP_IN_SPERM_UP	11	Up	2.12E-01	4.78E-01
2094	GHO_ATF5_TARGETS_UP	12	Up	2.12E-01	4.78E-01
2095	DAZARD_RESPONSE_TO_UV_NHEK_DN	310	Down	0.211960579	0.478277812
2096	JIANG_VHL_TARGETS	134	Up	0.212297279	0.478602225
2097	KEGG_TGF_BETA_SIGNALING_PATHWAY	68	Up	0.212366025	0.478602225
2098	DORN_ADENOVIRUS_INFECTION_32HR_UP	10	Up	0.212416216	0.478602225
2099	BIOCARTA_D4GDI_PATHWAY	10	Up	0.212509517	0.478602225
2100	PETROVA_PROX1_TARGETS_UP	25	Down	0.212728402	0.478866936
2101	LEE_CALORIE_RESTRICTION_MUSCLE_UP	28	Up	0.212919666	0.479069249
2102	YAO_TEMPORAL_RESPONSE_TO_PROGESTERON E_CLUSTER_13	172	Up	0.213359582	0.479822512
2103	WAGNER_APO2_SENSITIVITY	17	Up	0.213457549	0.479822512
2104	XU_AKT1_TARGETS_48HR	6	Up	0.213754637	0.480261844
2105	HASLINGER_B_CLL_WITH_11Q23_DELETION	20	Up	0.214169027	0.480550548
2106	KAMIKUBO_MYELOID_MN1_NETWORK	19	Up	0.21419282	0.480550548
2107	BIOCARTA_ALK_PATHWAY	27	Down	0.214269025	0.480550548
2108	LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_DN	160	Down	0.214289948	0.480550548
2109	RAFFEL_VEGFA_TARGETS_UP	8	Down	0.214725071	0.481297894
2110	MILI_PSEUDOPODIA_HAPTOTAXIS_UP	504	Up	0.215108095	0.481793886
2111	DER_IFN_GAMMA_RESPONSE_UP	63	Up	0.215150286	0.481793886
2112	MIKKELSEN_NPC_HCP_WITH_H3K4ME3_AND_H3K 27ME3	147	Up	0.215411104	0.481955908
2113	PID_THROMBIN_PAR4_PATHWAY	10	Up	0.215434464	0.481955908
2114	REACTOME_EARLY_PHASE_OF_HIV_LIFE_CYCLE	12	Down	0.215534557	0.481955908
2115	FIGUEROA_AML_METHYLATION_CLUSTER_4_DN	10	Down	0.215630643	0.481955908
2116	GROSS_HYPOXIA_VIA_HIF1A_DN	97	Up	0.215734882	0.481960907
2117	WIERENGA_STAT5A_TARGETS_GROUP1	109	Up	0.216001004	0.482327384
2118	KENNY_CTNNB1_TARGETS_DN	45	Down	0.216341771	0.482685547
2119	MARSON_BOUND_BY_FOXP3_STIMULATED	859	Up	0.216365712	0.482685547

	A	B	C	D	E
2120	REACTOME_BASE_FREE_SUGAR_PHOSPHATE_REMOVAL_VIA_THE_SINGLE_NUCLEOTIDE_REPLACEMENT_PATHWAY	9	Down	0.217719856	0.485477264
2121	KEGG_MTOR_SIGNALING_PATHWAY	47	Up	0.220011598	0.490356039
2122	WANG_RESPONSE_TO_FORSKOLIN_DN	9	Down	0.220432934	0.490864737
2123	REACTOME_THROMBIN_SIGNALLING_THROUGH_PROTEINASE_ACTIVATED_RECEPTORS_PARS	24	Up	0.220539065	0.490864737
2124	SERVITJA_LIVER_HNF1A_TARGETS_DN	84	Up	0.2205515	0.490864737
2125	BERENJENO_TRANSFORMED_BY_RHOA_REVERSIBLY_UP	8	Up	0.220678904	0.490917054
2126	TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_16D_UP	100	Up	0.220903478	0.49118538
2127	LIU_CMYB_TARGETS_UP	157	Up	0.221399052	0.491884135
2128	REACTOME_BILE_SALT_AND_ORGANIC_ANION_SLC_TRANSPORTERS	5	Down	0.221425938	0.491884135
2129	CHANG_POU5F1_TARGETS_DN	7	Up	0.221702682	0.492177025
2130	KOKKINAKIS_METHIONINE_DEPRIVATION_48HR_DN	63	Up	0.221766114	0.492177025
2131	ZEILSTRA_CD44_TARGETS_DN	5	Up	0.221986447	0.492434724
2132	GRANDVAUX_IRF3_TARGETS_DN	16	Up	0.222245282	0.492500363
2133	BIOCARTA_ACTINY_PATHWAY	19	Up	0.222275089	0.492500363
2134	TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN GRANULOCYTE_UP	10	Down	2.22E-01	4.93E-01
2135	REACTOME_TGF_BETA_RECEPTOR_SIGNALING_IN_EMT_EPITHELIAL_TO_MESENCHYMAL_TRANSITION	14	Down	2.22E-01	4.93E-01
2136	SIG_CHEMOTAXIS	39	Down	0.222537201	0.492500363
2137	RIZ_ERYTHROID_DIFFERENTIATION_CCNE1	37	Down	0.223120538	0.493425219
2138	GAVIN_IL2_RESPONSIVE_FOXP3_TARGETS_DN	3	Down	0.223228524	0.493425219
2139	KEGG_GLYCOSPHINGOLIPID_BIOSYNTHESIS_GANGLIOSERES	15	Up	0.223268385	0.493425219
2140	GENTILE_UV_HIGH_DOSE_UP	19	Up	0.223862466	0.494468198

	A	B	C	D	E
2141	NIELSEN_GIST	87	Up	0.223949618	0.494468198
2142	REACTOME_FGFR_LIGAND_BINDING_AND_ACTIVATION	10	Down	0.224320714	0.495056223
2143	BIOCARTA_STEM_PATHWAY	3	Down	0.224426826	0.495059175
2144	BIOCARTA_GPCR_PATHWAY	32	Up	0.224681838	0.495390427
2145	KEGG_PRIMARY_BILE_ACID_BIOSYNTHESIS	9	Up	0.225257789	0.496411167
2146	MOLENAAR_TARGETS_OF_CCND1_AND_CDK4_UP	60	Up	0.225449738	0.496411167
2147	BOYLAN_MULTIPLE_MYELOMA_PCA3_DN	51	Up	0.225459971	0.496411167
2148	ODONNELL_METASTASIS_DN	15	Up	0.225844061	0.496860957
2149	REACTOME_MHC_CLASS_II_ANTIGEN_PRESENTATION	84	Down	0.225874568	0.496860957
2150	OKAMOTO_LIVER_CANCER_MULTICENTRIC_OCCURRENCE_DN	4	Down	0.226426334	0.497842916
2151	TRAYNOR_RETT_SYNDROM_DN	13	Up	0.226951502	0.49876551
2152	JAIN_NFKB_SIGNALING	74	Up	0.227778091	0.500319244
2153	WESTON_VEGFA_TARGETS_6HR	45	Up	0.228032796	0.500319244
2154	ZHAN_MULTIPLE_MYELOMA_SUBGROUPS	30	Down	0.228039529	0.500319244
2155	CALVET_IRINOTECAN_SENSITIVE_VS_RESISTANT_DN	5	Down	0.228082043	0.500319244
2156	REACTOME_NUCLEAR_SIGNALING_BY_ERBB4	25	Up	0.228495942	0.500994583
2157	GAUSSMANN_MLL_AF4_FUSION_TARGETS_B_UP	22	Up	0.228819345	0.501470967
2158	MARTORIATI_MDM4_TARGETS_FETAL_LIVER_UP	208	Up	0.229063651	0.501773645
2159	IIZUKA_LIVER_CANCER_PROGRESSION_G1_G2_UP	9	Up	0.229315638	0.502092859
2160	REACTOME_DESTABILIZATION_OF_MRNA_BY_TRISTETRAPROLIN_TTP	17	Down	0.230394991	0.504053745
2161	TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_DN	119	Up	0.230451545	0.504053745
2162	BASSO_HAIRY_CELL_LEUKEMIA_UP	4	Up	0.230531247	0.504053745

	A	B	C	D	E
2163	MARTINEZ_RESPONSE_TO_TRABECTEDIN_DN	268	Down	0.230785727	0.50428579
2164	BIOCARTA_ACH_PATHWAY	11	Down	0.230914436	0.50428579
2165	REACTOME_SMAD2_SMAD3_SMAD4_HETEROTRIMER_REGULATES_TRANSCRIPTION	25	Up	0.230962313	0.50428579
2166	RASHI_RESPONSE_TO_IONIZING_RADIATION_3	45	Down	0.231064283	0.50428579
2167	BIOCARTA_RARRXR_PATHWAY	15	Down	0.231187874	0.504322578
2168	BURTON_ADIPOGENESIS_PEAK_AT_8HR	35	Up	0.231531467	0.504839032
2169	NADLER_OBESITY_UP	48	Up	0.231886948	0.505380917
2170	PARK_HSC_VS_MULTIPOTENT_PROGENITORS_DN	15	Down	0.233095963	0.507781663
2171	BRUINS_UVC_RESPONSE_MIDDLE	93	Down	0.233343693	0.508087074
2172	CHEN_LIVER_METABOLISM_QTL_CIS	72	Up	0.23359384	0.508393719
2173	PID_HES_HEY_PATHWAY	39	Down	0.233699716	0.508393719
2174	HONRADO_BREAST_CANCER_BRCA1_VS_BRCA2	15	Down	0.233905387	0.508606974
2175	CHEN_LVAD_SUPPORT_OF_FAILING_HEART_DN	27	Up	2.34E-01	5.09E-01
2176	LEE_BMP2_TARGETS_UP	626	Up	2.35E-01	5.10E-01
2177	REACTOME_CELL_CELL_JUNCTION_ORGANIZATION	41	Down	0.234816969	0.509885193
2178	REACTOME_GROWTH_HORMONE_RECEPTOR_SIGNALING	19	Up	0.235054935	0.509991585
2179	BROWNE_HCMV_INFECTION_30MIN_UP	39	Up	0.235210296	0.509991585
2180	MULLIGHAN_NPM1_MUTATED_SIGNATURE_1_UP	219	Up	0.235258335	0.509991585
2181	YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_17	181	Up	0.235323933	0.509991585
2182	REACTOME_OPSINS	1	Up	0.235405639	0.509991585
2183	REACTOME_REGULATION_OF_INSULIN_LIKE_GROWTH_FACTOR_IGF_ACTIVITY_BY_INSULIN_LIKE_GROWTH_FACTOR_BINDING_PROTEINS_IGFBPS	9	Down	0.235801463	0.510614992
2184	DOANE_BREAST_CANCER_ESR1_UP	82	Up	0.236280649	0.511121011

	A	B	C	D	E
2185	SA_B_CELL_RECEPTOR_COMPLEXES	23	Up	0.236305518	0.511121011
2186	KEGG_RNA_POLYMERASE	27	Down	0.236359663	0.511121011
2187	PURBEY_TARGETS_OF_CTBP1_AND_SATB1_UP	78	Up	0.236579035	0.511361362
2188	IVANOVA_HEMATOPOIESIS_LATE_PROGENITOR	456	Up	0.237036969	0.511950454
2189	REACTOME_TRANSPORT_OF_MATURE_MRNA_DERIVED_FROM_AN_INTRONLESS_TRANSCRIPT	33	Down	0.237068274	0.511950454
2190	REACTOME_NEGATIVE_REGULATION_OF_FGFR_SIGNALING	24	Down	0.237249176	0.512107062
2191	NIKOLSKY_BREAST_CANCER_17Q11_Q21_AMPLICON	90	Down	0.23741338	0.512227498
2192	KEGG_SULFUR_METABOLISM	10	Down	0.237527564	0.512239954
2193	KEGG_VASOPRESSIN_REGULATED_WATER_REABSORPTION	39	Up	0.238462011	0.513780395
2194	REACTOME_FGFR2C_LIGAND_BINDING_AND_ACTIVATION	5	Down	0.238468528	0.513780395
2195	PID_HDAC_CLASSIII_PATHWAY	22	Up	0.238568082	0.513780395
2196	MCCLUNG_CREB1_TARGETS_UP	85	Up	0.23875019	0.513938335
2197	XU_HGF_TARGETS_INDUCED_BY_AKT1_48HR_DN	25	Down	0.239322135	0.514907153
2198	ZHAN_EARLY_DIFFERENTIATION_GENES_UP	6	Up	0.239418204	0.514907153
2199	PID_EPHA_FWDPATHWAY	29	Down	0.239648774	0.515168543
2200	CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_2	353	Up	0.239868062	0.515405454
2201	XU_CREBBP_TARGETS_DN	34	Down	0.240258713	0.516003834
2202	REACTOME_ACTIVATION_OF_THE_AP1_FAMILY_OF_TRANSCRIPTION_FACTORS	10	Up	0.24036496	0.516003834
2203	YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_3	10	Down	0.240722354	0.516536387
2204	JECHLINGER_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_DN	60	Up	0.240933782	0.516755387
2205	ROSS_AML_WITH_AML1_ETO_FUSION	59	Up	0.241984439	0.518773354
2206	NIKOLSKY_BREAST_CANCER_22Q13_AMPLICON	14	Down	0.242304407	0.519067044

	A	B	C	D	E
2207	JUBAN_TARGETS_OF_SPI1_AND_FLI1_DN	85	Down	0.242341142	0.519067044
2208	ST_TUMOR_NECROSIS_FACTOR_PATHWAY	26	Up	0.243011195	0.520266378
2209	ZHENG_FOXP3_TARGETS_IN_T_LYMPHOCYTE_DN	30	Up	0.243141615	0.520309843
2210	WILENSKY_RESPONSE_TO_DARAPLADIB	15	Up	0.243707463	0.521083494
2211	TAKAO_RESPONSE_TO_UVB_RADIATION_UP	81	Down	0.243723708	0.521083494
2212	BLALOCK_ALZHEIMERS_DISEASE_INCIPIENT_UP	341	Up	0.244143978	0.521738504
2213	BHAT_ESR1_TARGETS_VIA_AKT1_UP	248	Up	0.244250914	0.521738504
2214	TAYLOR_METHYLATED_IN_ACUTE_LYMPHOBLASTIC_LEUKEMIA	68	Up	0.244496246	0.522008628
2215	BHAT_ESR1_TARGETS_VIA_AKT1_DN	72	Down	0.244598329	0.522008628
2216	REACTOME_CD28_CO_STIMULATION	26	Up	2.45E-01	5.23E-01
2217	NIKOLSKY_BREAST_CANCER_7Q21_Q22_AMPLICON	58	Up	2.45E-01	5.23E-01
2218	DAIRKEE_CANCER_PRONE_RESPONSE_BPA	44	Down	0.245911974	0.524101975
2219	AZARE_NEOPLASTIC_TRANSFORMATION_BY_STAT3_DN	11	Up	0.246547001	0.525128748
2220	BIOCARTA_IL2RB_PATHWAY	33	Up	0.246719654	0.525128748
2221	REACTOME_CIRCADIAN_CLOCK	49	Up	0.246727158	0.525128748
2222	DORSAM_HOXA9_TARGETS_UP	34	Up	0.247359189	0.525919211
2223	KIM_RESPONSE_TO_TSA_AND_DECITABINE_UP	90	Up	0.247438122	0.525919211
2224	SCHLINGEMANN_SKIN_CARCINOGENESIS_TPA_DN	20	Up	0.247502616	0.525919211
2225	PID_WNT_NONCANONICAL_PATHWAY	30	Down	0.247618518	0.525919211
2226	SMIRNOV_CIRCULATING_ENDOTHELIOCYTES_IN_CANCER_DN	2	Down	0.247754575	0.525919211
2227	MOROSETTI_FACIOSCAPULOHUMERAL_MUSCULAR_DISTROPHY_UP	14	Down	0.24790362	0.525919211
2228	WEST_ADRENOCORTICAL_CARCINOMA_VS_ADENOMA_UP	16	Down	0.247918097	0.525919211
2229	PID_ARF6_PATHWAY	29	Up	0.247988995	0.525919211

	A	B	C	D	E
2230	KYNG_DNA_DAMAGE_BY_GAMMA_AND_UV_RA DIATION	72	Up	0.248201702	0.52613416
2231	IKEDA_MIR1_TARGETS_DN	7	Down	0.248396386	0.526310728
2232	APPIERTO_RESPONSE_TO_FENRETINIDE_DN	43	Up	0.24860466	0.526412071
2233	REACTOME_TRANSPORT_OF_MATURE_TRANSCR IPT_TO_CYTOPLASM	53	Down	0.248929352	0.526412071
2234	NABA_PROTEOGLYCANS	12	Down	0.248980364	0.526412071
2235	YAGI_AML_WITH_T_8_21_TRANSLOCATION	307	Up	0.248980415	0.526412071
2236	STAMBOLSKY_BOUND_BY_MUTATED_TP53	15	Up	0.249001265	0.526412071
2237	PID_TAP63_PATHWAY	46	Down	0.249254339	0.526711426
2238	KEGG_TYPE_II_DIABETES_MELLITUS	39	Down	0.249412321	0.526809663
2239	REACTOME_REGULATION_OF_SIGNALING_BY_CB L	16	Down	0.249877898	0.527557223
2240	PID_CD8_TCR_PATHWAY	37	Up	0.250986746	0.529661624
2241	REACTOME_HS_GAG_BIOSYNTHESIS	25	Down	0.251305748	0.529717846
2242	WATTEL_AUTONOMOUS_THYROID_ADENOMA_U P	55	Down	0.251648703	0.529717846
2243	CASORELLI_APL_SECONDARY_VS_DE_NOVO_DN	9	Down	0.251680954	0.529717846
2244	MAHAJAN_RESPONSE_TO_IL1A_DN	68	Up	0.251681315	0.529717846
2245	REACTOME_P130CAS_LINKAGE_TO_MAPK_SIGNA LING_FOR_INTEGRINS	10	Up	0.251683679	0.529717846
2246	HEIDENBLAD_AMPLICON_12P11_12_UP	29	Down	0.251686046	0.529717846
2247	REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BIL E_SALTS_VIA_7ALPHA_HYDROXYCHOLESTEROL	9	Up	0.251863377	0.529855056
2248	AMIT_EGF_RESPONSE_480_HELA	161	Up	0.252351639	0.53064597
2249	REACTOME_BETA_DEFENSINS	1	Up	0.252852399	0.531462448
2250	REACTOME_SIGNALING_BY_PDGF	112	Up	0.253429103	0.532191997
2251	MANN_RESPONSE_TO_AMIFOSTINE_DN	10	Down	0.2534835	0.532191997
2252	NUNODA_RESPONSE_TO_DASATINIB_IMATINIB_ UP	29	Up	0.253537393	0.532191997
2253	BENPORATH_ES_CORE_NINE_CORRELATED	88	Up	0.25413065	0.532826707
2254	GOLUB_ALL_VS_AML_UP	22	Down	0.254143813	0.532826707

	A	B	C	D	E
2255	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_BLACK_DN	10	Down	0.254178073	0.532826707
2256	REACTOME_CONVERSION_FROM_APC_C_CDC20_TO_APC_C_CDH1_IN_LATE_ANAPHASE	16	Down	0.254366812	0.532985891
2257	ZHAN_MULTIPLE_MYELOMA_LB_UP	33	Up	2.55E-01	5.34E-01
2258	MULLIGAN_NTF3_SIGNALING_VIA_INSR_AND_IGF1R_DN	11	Up	2.55E-01	5.34E-01
2259	STEARMAN_LUNG_CANCER_EARLY_VS_LATE_DN	45	Up	0.255133352	0.533881794
2260	OUELLET_CULTURED_OVARIAN_CANCER_INVASIVE_VS_LMP_DN	21	Up	0.255751845	0.534939118
2261	NADLER_HYPERGLYCEMIA_AT_OBESITY	49	Down	0.256026161	0.535065093
2262	NAISHIRO_CTNNB1_TARGETS_WITH_LEF1_MOTIF	7	Up	0.256080699	0.535065093
2263	BIOCARTA_VDR_PATHWAY	12	Down	0.256151797	0.535065093
2264	OSAWA_TNF_TARGETS	7	Up	0.256519023	0.535595397
2265	HOEGERKORP_CD44_TARGETS_DIRECT_UP	18	Down	0.256838201	0.536024955
2266	EHLERS_ANEUPLOIDY_DN	11	Up	0.257547238	0.537266474
2267	LIN_NPAS4_TARGETS_DN	55	Down	0.25766959	0.537266474
2268	WEBER_METHYLATED_HCP_IN_FIBROBLAST_DN	15	Up	0.257774201	0.537266474
2269	WANG_LSD1_TARGETS_UP	19	Down	0.25799395	0.537487397
2270	DAZARD_RESPONSE_TO_UV_NHEK_UP	194	Up	0.258324699	0.537668577
2271	JIANG_AGING_CEREBRAL_CORTEX_UP	34	Up	0.258373487	0.537668577
2272	BIOCARTA_VEGF_PATHWAY	28	Up	0.258422294	0.537668577
2273	BIOCARTA_RAB_PATHWAY	12	Up	0.258761859	0.53813811
2274	GOTZMANN_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_DN	172	Up	0.258983556	0.538362209
2275	PID_PI3KCI_AKT_PATHWAY	35	Down	0.260102647	0.54045075
2276	RASHI_RESPONSE_TO_IONIZING_RADIATION_6	59	Down	0.260290244	0.540602814
2277	HALMOS_CEBPA_TARGETS_UP	38	Up	0.261011482	0.54177911
2278	YORDY_RECIPROCAL_REGULATION_BY_ETS1_AND_SP100_DN	66	Up	0.261085933	0.54177911

	A	B	C	D	E
2279	BEIER_GLIOMA_STEM_CELL_UP	31	Up	0.261272852	0.541848626
2280	BUKANOVICH_T_LYMPHOCYTE_HOMING_ON_T UMOR_UP	20	Up	0.261420456	0.541848626
2281	VERRECCHIA_DELAYED_RESPONSE_TO_TGFB1	37	Down	0.261463464	0.541848626
2282	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPH OLIPIDS_LIGHTYELLOW_UP	11	Up	0.261656278	0.542010485
2283	MARTINEZ_RESPONSE_TO TRABECTEDIN_UP	65	Up	0.262088032	0.542666937
2284	CADWELL_ATG16L1_TARGETS_DN	57	Up	0.26248931	0.543259742
2285	WATANABE_RECTAL_CANCER_RADIOOTHERAPY_R ESPONSIVE_DN	83	Up	0.262786547	0.543636793
2286	BIOCARTA_CACAM_PATHWAY	10	Up	0.262998049	0.543836228
2287	BIOCARTA_FREE_PATHWAY	7	Up	0.263176607	0.543967397
2288	SASSON_RESPONSE_TO_GONADOTROPHINS_UP	84	Up	0.263950068	0.545327534
2289	MARKS_HDAC_TARGETS_DN	11	Up	0.26418729	0.545579084
2290	ENK_UV_RESPONSE_EPIDERMIS_UP	256	Up	0.265022579	0.547064957
2291	MUNSHI_MULTIPLE_MYELOMA_UP	70	Up	0.265217142	0.547105457
2292	FIGUEROA_AML_METHYLATION_CLUSTER_1_DN	31	Up	0.265301593	0.547105457
2293	KYNG_RESPONSE_TO_H2O2_VIA_ERCC6_UP	33	Up	0.265389567	0.547105457
2294	ABBUD_LIF_SIGNALING_2_DN	4	Down	0.26589126	0.547687087
2295	GUO_HEX_TARGETS_UP	78	Up	0.265983081	0.547687087
2296	OXFORD_RALA_AND_RALB_TARGETS_UP	8	Up	0.266070281	0.547687087
2297	SMID_BREAST_CANCER_RELAPSE_IN_LUNG_DN	17	Up	0.266135355	0.547687087
2298	REACTOME_CELL_JUNCTION_ORGANIZATION	61	Up	2.67E-01	5.48E-01
2299	NOUSHMEHR_GBM_SOMATIC_MUTATED	9	Up	2.67E-01	5.48E-01
2300	REACTOME_NUCLEAR_EVENTS_KINASE_AND_TR ANSCRIPTION_FACTOR_ACTIVATION	24	Up	0.266722401	0.548062934
2301	EHRlich_ICF_SYNDROM_DN	10	Up	0.266781957	0.548062934
2302	TESAR_JAK_TARGETS_MOUSE_ES_D3_DN	4	Down	0.26728007	0.548847602
2303	BIOCARTA_AT1R_PATHWAY	30	Up	0.267652158	0.549372914

	A	B	C	D	E
2304	BIOCARTA_PML_PATHWAY	12	Down	0.267864462	0.549569944
2305	DELASERNA_MYOD_TARGETS_UP	74	Down	0.268145095	0.54977124
2306	VALK_AML_WITH_T_8_21_TRANSLOCATION	4	Up	0.268195282	0.54977124
2307	KYNG_DNA_DAMAGE_BY_GAMMA_RADIATION	65	Up	0.268906979	0.5509911
2308	PUJANA_BRCA1_PCC_NETWORK	1480	Down	0.269625311	0.552223492
2309	KEGG_GNRH_SIGNALING_PATHWAY	78	Up	0.270432362	0.553636443
2310	BILANGES_SERUM_SENSITIVE_VIA_TSC2	36	Down	0.27068213	0.55390778
2311	REACTOME_CELL_CYCLE_CHECKPOINTS	109	Down	0.270891564	0.553908535
2312	BOGNI_TREATMENT_RELATED_MYELOID_LEUKE MIA_DN	31	Down	0.270916958	0.553908535
2313	NING_CHRONIC_OBSTRUCTIVE_PULMONARY_DIS EASE_DN	103	Up	0.271103291	0.554049762
2314	PID_CXCR3_PATHWAY	33	Down	0.271680697	0.554614172
2315	ACOSTA_PROLIFERATION_INDEPENDENT_MYC_T ARGETS_DN	95	Up	0.271726775	0.554614172
2316	BIOCARTA_RACCYCD_PATHWAY	26	Up	0.2718241	0.554614172
2317	HOFMANN_CELL_LYMPHOMA_DN	33	Down	0.271848978	0.554614172
2318	RIZ_ERYTHROID_DIFFERENTIATION_HEMGN	18	Up	0.272998727	0.556719458
2319	ZHAN_VARIABLE_EARLY_DIFFERENTIATION_GEN ES_DN	30	Down	0.273352317	0.557200042
2320	MACLACHLAN_BRCA1_TARGETS_DN	14	Up	0.273701729	0.557465178
2321	VERHAAK_GLIOMASTOMA_CLASSICAL	146	Up	0.273718352	0.557465178
2322	KEGG_BLADDER_CANCER	37	Up	0.274081773	0.557849829
2323	REACTOME_NEGATIVE_REGULATORS_OF_RIG_I_ MDA5_SIGNALING	29	Up	0.274143344	0.557849829
2324	KEGG_HISTIDINE_METABOLISM	17	Up	0.274957131	0.558927875
2325	REACTOME_MITOCHONDRIAL_PROTEIN_IMPORT	50	Down	0.275020101	0.558927875
2326	PID_FGF_PATHWAY	46	Up	0.275100492	0.558927875
2327	PRAMOONJAGO_SOX4_TARGETS_DN	50	Down	0.275171765	0.558927875
2328	ODONNELL_TFRC_TARGETS_UP	304	Up	0.275264585	0.558927875
2329	PID_BETA_CATENIN_NUC_PATHWAY	68	Down	0.276043458	0.560248754

	A	B	C	D	E
2330	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPH OLIPIDS_BLUE_DN	49	Down	0.276152243	0.560248754
2331	REACTOME_REGULATION_OF_PYRUVATE_DEHYD ROGENASE_PDH_COMPLEX	11	Up	0.276465541	0.560643641
2332	MIKKELSEN_MCV6_ICP_WITH_H3K27ME3	30	Up	0.277201917	0.561895777
2333	CAFFAREL_RESPONSE_TO_THC_8HR_5_UP	16	Up	0.277399367	0.562054892
2334	FLECHNER_PBL_KIDNEY_TRANSPLANT_REJECTED _VS_OK_UP	61	Up	0.277999606	0.562838862
2335	REACTOME_RNA_POL_I_TRANSCRIPTION	50	Down	0.278087607	0.562838862
2336	GARCIA_TARGETS_OF_FLI1_AND_DAX1_UP	55	Down	0.278243401	0.562838862
2337	KEGG_LIMONENE_AND_PINENE_DEGRADATION	10	Up	0.278374673	0.562838862
2338	SCHAVOLT_TARGETS_OF_TP53_AND_TP63	14	Up	0.278381888	0.562838862
2339	LIANG_SILENCED_BY_METHYLATION_UP	22	Up	2.79E-01	5.64E-01
2340	LIU_VMYB_TARGETS_UP	126	Up	2.79E-01	5.64E-01
2341	SA_G1_AND_S_PHASES	13	Up	0.279350034	0.564072185
2342	BLALOCK_ALZHEIMERS_DISEASE_DN	1161	Up	0.279641443	0.564419402
2343	ROVERSI_GLIOMA_COPY_NUMBER_DN	36	Up	0.280628697	0.566170193
2344	KEGG_GRAFT_VERSUS_HOST_DISEASE	16	Up	0.281197431	0.567075485
2345	REACTOME_TIE2_SIGNALING	14	Down	0.282612561	0.569686157
2346	MARTENS_TRETINOIN_RESPONSE_DN	711	Down	0.283230543	0.570389937
2347	DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP	1334	Up	0.283270315	0.570389937
2348	BROWNE_HCMV_INFECTION_10HR_UP	76	Down	0.283547107	0.570389937
2349	FINETTI_BREAST_CANCERS_KINOME_GRAY	15	Up	0.28373284	0.570389937
2350	REACTOME_CRMP5_IN_SEMA3A_SIGNALING	14	Down	0.283745817	0.570389937
2351	ST_ADRENERGIC	24	Up	0.283761878	0.570389937
2352	BILD_E2F3_ONCOGENIC_SIGNATURE	219	Up	0.283806718	0.570389937
2353	PID_IL3_PATHWAY	22	Up	0.284914615	0.57237311
2354	DAIRKEE_CANCER_PRONE_RESPONSE_BPA_E2	102	Up	0.28510785	0.572517888
2355	BIOCARTA_IL4_PATHWAY	9	Up	0.285956259	0.573977623
2356	FIGUEROA_AML_METHYLATION_CLUSTER_2_UP	44	Up	0.286169014	0.57416076

	A	B	C	D	E
2357	REACTOME_VITAMIN_B5_PANTOTHENATE_META BOLISM	11	Up	0.287167922	0.575842578
2358	BAELDE_DIABETIC_NEPHROPATHY_UP	62	Up	0.287250996	0.575842578
2359	BIOCARTA_MTA3_PATHWAY	14	Down	0.287506114	0.57610958
2360	KOMMAGANI_TP63_GAMMA_TARGETS	9	Down	0.287735078	0.576221884
2361	ZWANG_EGF_INTERVAL_DN	180	Down	0.287806063	0.576221884
2362	GAZDA_DIAMOND_BLACKFAN_ANEMIA_MYELOID _UP	28	Up	0.288352096	0.576411995
2363	REACTOME_RNA_POL_III_TRANSCRIPTION_INITIA TION_FROM_TYPE_3_PROMOTER	25	Down	0.288528829	0.576411995
2364	KEGG_PANCREATIC_CANCER	64	Up	0.288574115	0.576411995
2365	SWEET_KRAS_ONCOGENIC_SIGNATURE	77	Up	0.288574126	0.576411995
2366	JAERVINEN_AMPLIFIED_IN_LARYNGEAL_CANCER	35	Down	0.288743677	0.576411995
2367	PEREZ_TP63_TARGETS	289	Down	0.288851776	0.576411995
2368	GHANDHI_BYSTANDER_IRRADIATION_DN	11	Down	0.288915891	0.576411995
2369	REACTOME_PURINE_METABOLISM	30	Up	0.288968538	0.576411995
2370	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_11	3	Up	0.28900441	0.576411995
2371	SHARMA_PILOCYTIC_ASTROCYTOMA_LOCATION_ DN	4	Up	0.289120937	0.576411995
2372	REACTOME_SYNTHESIS_OF_PIPS_AT_THE_GOLGI _MEMBRANE	15	Up	0.290041718	0.578003845
2373	GRADE_COLON_CANCER_UP	789	Down	0.290403671	0.578481174
2374	TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION _SUSTAINED_IN GRANULOCYTE_DN	3	Up	0.290588347	0.578491788
2375	REACTOME_RAS_ACTIVATION_UOPN_CA2_INFUX _THROUGH_NMDA_RECEPTOR	14	Down	0.290653863	0.578491788
2376	REACTOME_PRE_NOTCH_TRANSCRIPTION_AND_ TRANSLATION	26	Down	0.29082905	0.578596742
2377	HOFFMANN_SMALL_PRE_BII_TO_IMMATURE_B_ LYMPHOCYTE_UP	46	Up	0.291570051	0.579826807
2378	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_22	11	Up	0.29192163	0.579978541

	A	B	C	D	E
2379	BROWNE_HCMV_INFECTION_20HR_UP	219	Down	0.291938922	0.579978541
2380	BROWNE_HCMV_INFECTION_12HR_DN	89	Up	2.92E-01	5.80E-01
2381	BRUINS_UVC_RESPONSE_VIA_TP53_GROUP_A	652	Up	2.92E-01	5.81E-01
2382	PID_HNF3A_PATHWAY	26	Up	0.292900903	0.581250217
2383	ZHOU_INFLAMMATORY_RESPONSE_LIVE_DN	323	Down	0.293181588	0.581562973
2384	ABRAHAM_ALPC_VS_MULTIPLE_MYELOMA_DN	19	Up	0.293307438	0.581568462
2385	SANSOM_APC_TARGETS_DN	239	Up	0.294039318	0.582775075
2386	BIOCARTA_SPRY_PATHWAY	18	Up	0.294176717	0.58280293
2387	PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_DN	136	Up	0.294937738	0.584065721
2388	MCMURRAY_TP53_HRAS_COOPERATION_RESPONSE_UP	18	Up	0.29530775	0.584553463
2389	LIM_MAMMARY_STEM_CELL_DN	387	Up	0.295434161	0.584558799
2390	PID_TRAIL_PATHWAY	25	Up	0.295947093	0.585328595
2391	PID_NFKAPPAB_CANONICAL_PATHWAY	21	Up	0.296091286	0.585368755
2392	CAFFAREL_RESPONSE_TO_THC_24HR_5_UP	33	Up	0.296707249	0.586144878
2393	MIKKELSEN_NPC_ICP_WITH_H3K4ME3	376	Up	0.296731968	0.586144878
2394	REACTOME_ACYL_CHAIN_REMODELLING_OF_PG	8	Up	0.296895718	0.586207887
2395	KEGG_BASAL_TRANSCRIPTION_FACTORS	31	Down	0.297011996	0.586207887
2396	OUELLET_CULTURED_OVARIAN_CANCER_INVASIVE_VS_LMP_UP	64	Up	0.297255286	0.5864431
2397	TAVOR_CEBPA_TARGETS_DN	19	Up	0.297733651	0.587141695
2398	KORKOLA_EMBRYONIC_CARCINOMA_VS_SEMINOMA_UP	22	Up	0.298264599	0.587687286
2399	OUILLETTE_CLL_13Q14_DELETION_UP	66	Down	0.298489165	0.587687286
2400	KEGG_AUTOIMMUNE_THYROID_DISEASE	16	Up	0.298534829	0.587687286
2401	KEGG_ALLOGRAFT_REJECTION	16	Up	0.298534829	0.587687286
2402	IKEDA_MIR30_TARGETS_UP	115	Up	0.298632206	0.587687286
2403	HUTTMANN_B_CLL_POOR_SURVIVAL_DN	50	Up	0.299156687	0.588474332
2404	REACTOME_REGULATION_OF_IFNG_SIGNALING	12	Up	0.299306934	0.588524871
2405	NAKAYAMA_SOFT_TISSUE_TUMORS_PCA2_DN	50	Up	0.299614682	0.588702416

	A	B	C	D	E
2406	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_3	4	Down	0.299646415	0.588702416
2407	PID_NFKAPPAB_ATYPICAL_PATHWAY	17	Down	0.299811105	0.588781161
2408	SAENZ_DETOX_PATHWAY_AND_CARCI NOGENESIS_DN	8	Up	0.300208232	0.589316118
2409	BOYLAN_MULTIPLE_MYELOMA_D_DN	62	Up	0.300556857	0.589457215
2410	REACTOME_NEF_MEDIATES_DOWN_MODULATION_OF_CELL_SURFACE_RECEPTORS_BY_RECRUITING_THEM_TO_CLATHRIN_ADAPTERS	18	Up	0.300691293	0.589457215
2411	GEISS_RESPONSE_TO_DSRNA_UP	34	Up	0.300718269	0.589457215
2412	SCHEIDEREIT_IKK_TARGETS	16	Up	0.30077912	0.589457215
2413	PID_TRKR_PATHWAY	59	Down	0.301227589	0.589881117
2414	REACTOME_ENDOSOMAL_SORTING_COMPLEX_REQUIRED_FOR_TRANSPORT_ESCRT	26	Up	0.301245108	0.589881117
2415	LEIN_LOCALIZED_TO_DISTAL_AND_PROXIMAL_DENDRITES	14	Down	0.301739934	0.590502963
2416	PASTURAL_RIZ1_TARGETS_DN	2	Down	0.301812625	0.590502963
2417	YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_9	67	Up	0.302318008	0.59106826
2418	GREGORY_SYNTHETIC_LETHAL_WITH_IMATINIB	118	Up	0.302351743	0.59106826
2419	PID_NFAT_3PATHWAY	54	Up	0.302938589	0.591944477
2420	WEBER_METHYLATED_LCP_IN_FIBROBLAST_DN	5	Up	0.303112406	0.591944477
2421	MURAKAMI_UV_RESPONSE_6HR_DN	13	Up	3.03E-01	5.92E-01
2422	HOFMANN_CELL_LYMPHOMA_UP	39	Up	3.03E-01	5.92E-01
2423	REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS_VIA_24_HYDROXYCHOLESTEROL	6	Up	0.303656994	0.592394424
2424	TURASHVILI_BREAST_NORMAL_DUCTAL_VS_LOBULAR_DN	6	Up	0.303919871	0.592461659
2425	SHEDDEN_LUNG_CANCER_GOOD_SURVIVAL_A4	158	Up	0.303942235	0.592461659
2426	ZHAN_V1_LATE_DIFFERENTIATION_GENES_DN	13	Down	0.304110742	0.592545672
2427	DAVICIONI_MOLECULAR_ARMS_VS_ERMS_UP	304	Up	0.304253846	0.592580141
2428	BIOCARTA_TH1TH2_PATHWAY	7	Up	0.304763289	0.593327787

	A	B	C	D	E
2429	MIKKELSEN_DEDIFFERENTIATED_STATE_UP	7	Down	0.305021651	0.593453255
2430	NIELSEN_SYNOVIAL_SARCOMA_UP	15	Up	0.305078932	0.593453255
2431	ZHAN_MULTIPLE_MYELOMA_MF_UP	36	Up	0.306022228	0.595043221
2432	PID_HIF1A_PATHWAY	18	Down	0.306937142	0.596402609
2433	UDAYAKUMAR_MED1_TARGETS_DN	222	Up	0.306973787	0.596402609
2434	KOYAMA_SEMA3B_TARGETS_DN	360	Up	0.307193234	0.596583654
2435	MEISSNER_NPC_HCP_WITH_H3_UNMETHYLATED	390	Up	0.307837915	0.597590036
2436	DELACROIX_RAR_TARGETS_DN	18	Down	0.308124172	0.597900087
2437	FRASOR_RESPONSE_TO ESTRADIOL_DN	66	Up	0.308845503	0.599053777
2438	BIOCARTA_PYK2_PATHWAY	28	Up	0.309163622	0.599424748
2439	PATTERSON_DOCETAXEL_RESISTANCE	25	Up	0.309406081	0.599648784
2440	REACTOME_DESTABILIZATION_OF_MRNA_BY_KS RP	17	Down	0.309647494	0.599740966
2441	ZEMBUTSU_SENSITIVITY_TO METHOTREXATE	13	Down	0.309707504	0.599740966
2442	SHIPP_DLBCL_CURED_VS_FATAL_DN	39	Up	0.310359999	0.600758294
2443	BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_UP	48	Up	0.3105938	0.600906645
2444	KEGG_SNARE_INTERACTIONS_IN_VESICULAR_TRANSPORT	35	Down	0.310690991	0.600906645
2445	BENPORATH_MYC_TARGETS_WITH_EBOX	204	Up	0.310925567	0.601114281
2446	SHEDDEN_LUNG_CANCER_GOOD_SURVIVAL_A5	66	Down	0.311357883	0.601703884
2447	MOREAUX_MULTIPLE_MYELOMA_BY_TACI_DN	170	Down	0.312203971	0.602874609
2448	RIZKI_TUMOR_INVASIVENESS_3D_UP	165	Up	0.312218872	0.602874609
2449	PID_IL4_2PATHWAY	42	Up	0.312440243	0.603026758
2450	NICK_RESPONSE_TO_PROC_TREATMENT_DN	26	Up	0.312598018	0.603026758
2451	MOOTHA_FFA_OXYDATION	21	Up	0.312680541	0.603026758
2452	SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX4_UP	9	Down	0.312918885	0.603103953
2453	LIN_NPAS4_TARGETS_UP	153	Up	0.312975851	0.603103953
2454	ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_6HR	83	Down	0.313330664	0.603541536

	A	B	C	D	E
2455	DURCHDEWALD_SKIN_CARCIANOGENESIS_DN	233	Up	0.314337891	0.605234937
2456	MARTINEZ_TP53_TARGETS_DN	484	Up	0.31453048	0.605359071
2457	CROONQUIST_IL6_DEPRIVATION_UP	13	Up	0.315038816	0.605994567
2458	SCHLOSSER_SERUM_RESPONSE_UP	112	Down	0.315340277	0.605994567
2459	TSENG_IRS1_TARGETS_DN	112	Up	0.315363346	0.605994567
2460	OUYANG_PROSTATE_CANCER_PROGRESSION_D N	20	Up	0.31537368	0.605994567
2461	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_8	10	Up	0.315648417	0.606275923
2462	SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CA NCER_BOX3	5	Down	3.16E-01	6.07E-01
2463	WALLACE_PROSTATE_CANCER_DN	6	Up	3.16E-01	6.07E-01
2464	RAMALHO_STEMNESS_DN	49	Up	0.316401582	0.606805743
2465	BIOCARTA_SODD_PATHWAY	7	Up	0.316437958	0.606805743
2466	BILANGES_SERUM_RESPONSE_TRANSLATION	32	Down	0.316768005	0.607024387
2467	REACTOME_SCF_BETA_TRCP_MEDIATED_DEGRA DATION_OF_EMI1	48	Down	0.316907859	0.607024387
2468	NAM_FXYD5_TARGETS_DN	18	Up	0.316937389	0.607024387
2469	MAGRANGEAS_MULTIPLE_MYELOMA_IGLL_VS_I GLK_DN	20	Down	0.318301719	0.60927942
2470	BROWNE_HCMV_INFECTION_6HR_UP	50	Down	0.318372675	0.60927942
2471	GALE_APL_WITH_FLT3_MUTATED_UP	55	Up	0.318695003	0.609649348
2472	NIELSEN_GIST_VS_SYNOVIAL_SARCOMA_DN	13	Up	0.318970859	0.609706116
2473	REACTOME_SIGNALING_BY_WNT	62	Down	0.318982755	0.609706116
2474	LABBE_TGFB1_TARGETS_DN	69	Up	0.319386903	0.610130085
2475	REACTOME_EFFECTS_OF_PIP2_HYDROLYSIS	18	Down	0.319462821	0.610130085
2476	WAKABAYASHI_ADIPOGENESIS_PPARG_BOUND_ 8D	579	Up	0.320002391	0.610913655
2477	GAZDA_DIAMOND_BLACKFAN_ANEMIA_ERYTHR OID_UP	25	Down	0.32070807	0.612013583
2478	SANSOM_APC_TARGETS_REQUIRE_MYC	198	Up	0.320924854	0.61218003
2479	NATSUME_RESPONSE_TO_INTERFERON_BETA_D N	46	Up	0.321292164	0.612633363

	A	B	C	D	E
2480	JOSEPH_RESPONSE_TO_SODIUM_BUTYRATE_DN	50	Up	0.321535589	0.612850204
2481	STEIN_ESR1_TARGETS	82	Up	0.32182443	0.613153399
2482	SHEPARD_CRUSH_AND_BURN_MUTANT_UP	174	Up	0.322522615	0.614235935
2483	PASTURAL_RIZ1_TARGETS_UP	7	Up	0.322818386	0.614551521
2484	RAFFEL_VEGFA_TARGETS_DN	2	Up	0.32298836	0.614627467
2485	PID_DNA_PK_PATHWAY	15	Down	0.323655473	0.615648998
2486	PID_ALK1_PATHWAY	22	Up	0.324317257	0.616659573
2487	KANG_CISPLATIN_RESISTANCE_DN	8	Up	0.324716522	0.617051466
2488	REACTOME_METABOLISM_OF_PROTEINS	390	Down	0.324784549	0.617051466
2489	VERRECCHIA_RESPONSE_TO_TGFB1_C2	22	Down	0.324939837	0.617098364
2490	PID_P38_ALPHA_BETA_PATHWAY	29	Down	0.325275847	0.617485212
2491	REACTOME_REGULATION_OF_KIT_SIGNALING	16	Up	0.325490557	0.617485212
2492	ZEMBUTSU_SENSITIVITY_TO_CISPLATIN	13	Up	0.325558741	0.617485212
2493	HASLINGER_B_CLL_WITH_MUTATED_VH_GENES	13	Up	0.325666275	0.617485212
2494	FINETTI_BREAST_CANCERS_KINOME_BLUE	21	Up	0.32582943	0.617504303
2495	FOURNIER_ACINAR_DEVELOPMENT_LATE_2	274	Up	0.325937721	0.617504303
2496	WAMUNYOKOLI_OVARIAN_CANCER_LMP_UP	244	Up	0.326784461	0.618860352
2497	PID_S1P_S1P2_PATHWAY	23	Up	0.326953279	0.618931989
2498	FUNG_IL2_TARGETS_WITH_STAT5_BINDING_SITES_T1	2	Up	0.327342806	0.619223088
2499	MEINHOLD_OVARIAN_CANCER_LOW_GRADE_DN	20	Down	0.327472714	0.619223088
2500	LANDEMAINE_LUNG_METASTASIS	20	Up	0.327500211	0.619223088
2501	GOZGIT_ESR1_TARGETS_UP	116	Up	0.327950777	0.619826968
2502	YAGUE_PRETUMOR_DRUG_RESISTANCE_UP	6	Up	0.328473196	0.620566114
2503	VALK_AML_CLUSTER_15	22	Up	3.29E-01	6.21E-01
2504	DING_LUNG_CANCER_MUTATED_RECURRENTLY	6	Down	3.29E-01	6.21E-01
2505	BIOCARTA_CBL_PATHWAY	12	Up	0.329195581	0.621185751

	A	B	C	D	E
2506	REACTOME_PROLONGED_ERK_ACTIVATION_EVENTS	17	Down	0.329759529	0.621373991
2507	ST_P38_MAPK_PATHWAY	37	Up	0.32976718	0.621373991
2508	BIOCARTA_AKAPCENTROSOME_PATHWAY	14	Down	0.32980753	0.621373991
2509	POMEROY_MEDULLOBLASTOMA_PROGNOSIS_DN	42	Down	0.329821369	0.621373991
2510	PID_SYNDECAN_4_PATHWAY	27	Up	0.330130443	0.621643002
2511	HEIDENBLAD_AMPLICON_12P11_12_DN	27	Down	0.330227288	0.621643002
2512	SHEN_SMARCA2_TARGETS_DN	178	Down	0.330481259	0.621835676
2513	NIKOLSKY_BREAST_CANCER_12Q24_AMPLICON	13	Down	0.33059285	0.621835676
2514	REACTOME_TIGHT_JUNCTION_INTERACTIONS	20	Down	0.331484187	0.623264139
2515	KRIEG_HYPOXIA_NOT_VIA_KDM3A	698	Up	0.332379839	0.624549555
2516	KANG_CISPLATIN_RESISTANCE_UP	18	Up	0.332493805	0.624549555
2517	SIG_REGULATION_OF_THE_ACTIN_CYTOSKELETON_BY_RHO_GTPASES	31	Up	0.332584401	0.624549555
2518	BOYALTY_LIVER_CANCER_SUBCLASS_G3_DN	37	Down	0.332696557	0.624549555
2519	PENG_RAPAMYCIN_RESPONSE_UP	160	Down	0.33304098	0.624871763
2520	REACTOME_SIGNALING_BY_ROBO_RECEPTOR	29	Down	0.333132692	0.624871763
2521	KYNG_ENVIRONMENTAL_STRESS_RESPONSE_UP	50	Up	0.333696792	0.625219563
2522	WAGSCHAL_EHMT2_TARGETS_UP	5	Up	0.333863437	0.625219563
2523	BASSO_CD40_SIGNALING_DN	49	Up	0.333907011	0.625219563
2524	WANG_TARGETS_OF_MLL_CBP_FUSION_UP	31	Up	0.333917032	0.625219563
2525	FERREIRA_EWINGS_SARCOMA_UNSTABLE_VS_STABLE_DN	80	Up	0.33397972	0.625219563
2526	BIOCARTA_HSP27_PATHWAY	12	Up	0.33460443	0.62594832
2527	CHIANG_LIVER_CANCER_SUBCLASS_CTNNB1_UP	115	Up	0.334633959	0.62594832
2528	LINDGREN_BLADDER_CANCER_CLUSTER_3_DN	203	Up	0.335078194	0.626531248
2529	REACTOME_SYNTHESIS_AND_INTERCONVERSION_OF_NUCLEOTIDE_DI_AND_TRIPHOSPHATES	18	Up	0.335217819	0.62654438

	A	B	C	D	E
2530	FONTAINE_THYROID_TUMOR_UNCERTAIN_MALIGNANCY_UP	31	Up	0.337694326	0.630497044
2531	GRAESSMANN_APOPTOSIS_BY_SERUM_DEPRIVATION_UP	441	Up	0.337734917	0.630497044
2532	NOJIMA_SFRP2_TARGETS_DN	21	Up	0.33775447	0.630497044
2533	REACTOME_ABCA_TRANSPORTERS_IN_LIPID_HOMEOSTASIS	9	Down	0.338017425	0.630497044
2534	MULLIGHAN_NPM1_SIGNATURE_3_UP	278	Up	0.33806897	0.630497044
2535	RODRIGUES_THYROID_CARCINOMA_UP	15	Up	0.338133229	0.630497044
2536	KAAB_FAILED_HEART_VENTRICLE_DN	33	Up	0.338487094	0.630907897
2537	CHEOK_RESPONSE_TO_MERCAPTOPYRINE_AND_LD_MTX_UP	10	Up	0.339106844	0.631699538
2538	REACTOME_THE_ROLE_OF_NEF_IN_HIV1_REPLICATION_AND_DISEASE_PATHOGENESIS	24	Up	0.339277217	0.631699538
2539	IWANAGA_CARCINOGENESIS_BY_KRAS_PTEN_UP	145	Up	0.339312895	0.631699538
2540	PID_ERBB1_RECEPTOR_PROXIMAL_PATHWAY	34	Down	0.339725631	0.632130587
2541	HELLER_SILENCED_BY_METHYLATION_UP	188	Up	0.339811998	0.632130587
2542	CHANDRAN_METASTASIS_TOP50_DN	44	Up	0.340094123	0.632162386
2543	CHICAS_RB1_TARGETS_GROWING	218	Up	0.340096674	0.632162386
2544	KANG_FLUOROURACIL_RESISTANCE_UP	19	Up	3.40E-01	6.32E-01
2545	FONTAINE_THYROID_TUMOR_UNCERTAIN_MALIGNANCY_DN	18	Up	3.41E-01	6.33E-01
2546	BIOCARTA_PTEN_PATHWAY	17	Up	0.341285332	0.633503254
2547	BIOCARTA_CALCINEURIN_PATHWAY	18	Down	0.341354346	0.633503254
2548	WIERENGA_PML_INTERACTOME	38	Up	0.341640268	0.633718677
2549	SAFFORD_T_LYMPHOCYTE_ANERGY	66	Up	0.341738665	0.633718677
2550	REACTOME_PKA_MEDIATED_PHOSPHORYLATION_OF_CREB	15	Up	0.342082184	0.634106834
2551	GROSS_ELK3_TARGETS_UP	27	Up	0.343102969	0.635600427
2552	VANTVEER_BREAST_CANCER_BRCA1_DN	38	Up	0.343156971	0.635600427
2553	WALLACE_PROSTATE_CANCER_UP	20	Up	0.343611861	0.636193591

	A	B	C	D	E
2554	BIOCARTA_PAR1_PATHWAY	33	Down	0.344027323	0.636713318
2555	NOUZOVA_TRETINOIN_AND_H4_ACETYLATION	135	Down	0.344501165	0.637340643
2556	LUI_THYROID_CANCER_CLUSTER_2	40	Down	0.344666803	0.637397512
2557	CAFFAREL_RESPONSE_TO_THC_24HR_3_DN	12	Down	0.344857686	0.637501005
2558	BIOCARTA_PLCE_PATHWAY	9	Up	0.345320995	0.638107822
2559	HOEGERKORP_CD44_TARGETS_TEMPORAL_DN	19	Down	0.345589221	0.638353819
2560	ASTON_MAJOR_DEPRESSIVE_DISORDER_UP	42	Up	0.346112835	0.638886015
2561	KORKOLA_SEMINOMA_DN	6	Down	0.346277361	0.638886015
2562	MIKKELSEN_IPS_LCP_WITH_H3K4ME3_AND_H3K27ME3	2	Down	0.346282981	0.638886015
2563	REACTOME_NITRIC_OXIDE_STIMULATES_GUANYLATE_CYCLASE	19	Up	0.346601409	0.639167263
2564	KEGG_PYRIMIDINE_METABOLISM	85	Up	0.346811816	0.639167263
2565	RADAEVA_RESPONSE_TO_IFNA1_UP	41	Up	0.346867574	0.639167263
2566	STARK_BRAIN_22Q11_DELETION	12	Up	0.347241635	0.639167263
2567	REACTOME_SPHINGOLIPID_DE_NOVO_BIOSYNTHESIS	26	Up	0.347565042	0.639167263
2568	PID_INTEGRIN4_PATHWAY	11	Down	0.347625232	0.639167263
2569	REACTOME_TERMINATION_OF_O_GLYCAN_BIOSYNTHESIS	9	Up	0.34775024	0.639167263
2570	NIKOLSKY_BREAST_CANCER_8Q23_Q24_AMPLICON	124	Down	0.347777708	0.639167263
2571	MCBRYAN_PUBERTAL_BREAST_4_5WK_UP	215	Up	0.347830295	0.639167263
2572	SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_UP	330	Up	0.347938405	0.639167263
2573	TURJANSKI_MAPK8_AND_MAPK9_TARGETS	8	Up	0.348003204	0.639167263
2574	MA_PITUITARY_FETAL_VS_ADULT_DN	16	Down	0.348058702	0.639167263
2575	HOFMANN_MYELODYSPLASTIC_SYNDROME_LOW_RISK_UP	13	Down	0.348649947	0.639860125
2576	REACTOME_INTEGRATION_OF_PROVIRUS	8	Down	0.348775356	0.639860125
2577	HEDENFALK_BREAST_CANCER_BRACX_DN	20	Down	0.348842261	0.639860125

	A	B	C	D	E
2578	NIKOLSKY_BREAST_CANCER_12Q13_Q21_AMPLICON	36	Up	0.349082946	0.640053131
2579	HOWLIN_CITED1_TARGETS_2_UP	12	Down	0.349303944	0.640209905
2580	LOPES_METHYLATED_IN_COLON_CANCER_DN	20	Down	0.349447235	0.64022419
2581	BOSCO_INTERFERON_INDUCED_ANTIVIRAL_MODULE	48	Up	0.350105718	0.641128118
2582	GOLDRATH_ANTIGEN_RESPONSE	287	Up	0.350535106	0.641128118
2583	SCHURINGA_STAT5A_TARGETS_DN	9	Up	0.35056892	0.641128118
2584	PID_IL8_CXCR2_PATHWAY	29	Up	0.350579241	0.641128118
2585	MIKKELSEN_ES_LCP_WITH_H3K27ME3	4	Down	3.51E-01	6.41E-01
2586	HOLLEMAN_PREDNISOLONE_RESISTANCE_ALL_DN	7	Up	3.51E-01	6.42E-01
2587	SIG_IL4RECEPTOR_IN_B_LYPHOCYTES	27	Up	0.351194986	0.641684573
2588	LENAOUR_DENDRITIC_CELL_MATURATION_DN	86	Up	0.351694843	0.642349492
2589	REACTOME_REGULATION_OF_IFNA_SIGNALING	11	Up	0.351863989	0.642410104
2590	CHANG_POU5F1_TARGETS_UP	11	Up	0.352211505	0.6427962
2591	MUNSHI_MULTIPLE_MYELOMA_DN	10	Down	0.352382889	0.642860676
2592	BIOCARTA_NFAT_PATHWAY	41	Up	0.353489386	0.644430839
2593	REACTOME_FANCONI_ANEMIA_PATHWAY	20	Up	0.353545809	0.644430839
2594	DUTTA_APOPTOSIS_VIA_NFKB	27	Up	0.353652733	0.644430839
2595	LEE_NAIVE_T_LYMPHOCYTE	12	Up	0.353840484	0.644500953
2596	WOO_LIVER_CANCER_RECURRENCE_UP	92	Up	0.353964015	0.644500953
2597	PID_ERBB4_PATHWAY	32	Down	0.354518233	0.645261422
2598	MATZUK_POST-IMPLANTATION_AND_POST-PARTUM	11	Down	0.354733795	0.645384062
2599	GUTIERREZ_WALDENSTROEMS_MACROGLOBULINEMIA_2	9	Down	0.354931934	0.645384062
2600	REACTOME_SYNTHESIS_OF_PIPS_AT_THE_LATE_ENDOSOME_MEMBRANE	10	Up	0.354995381	0.645384062
2601	REACTOME_IRAK2_MEDIATED_ACTIVATION_OF_TAK1_COMPLEX_UPON_TLR7_8_OR_9_STIMULATION	8	Down	0.355796703	0.64655116

	A	B	C	D	E
2602	REACTOME_SIGNALING_BY_FGFR_IN_DISEASE	107	Down	0.356022778	0.64655116
2603	REACTOME_APOPTOSIS_INDUCED_DNA_FRAGME NTATION	9	Down	0.356047856	0.64655116
2604	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPH OLIPIDS_GREEN_DN	23	Down	0.356365013	0.64687848
2605	LEE_AGING_MUSCLE_UP	35	Up	0.35698702	0.647758706
2606	ZAMORA_NOS2_TARGETS_DN	82	Up	0.357403289	0.648265083
2607	PUJANA_ATM_PCC_NETWORK	1212	Down	0.358123249	0.649321701
2608	SA_CASPASE_CASCADE	15	Up	0.358505149	0.649764486
2609	DODD_NASOPHARYNGEAL_CARCI NOMA_UP	1216	Up	0.358642493	0.649764486
2610	REACTOME_BASE_EXCISION_REPAIR	18	Down	0.359268538	0.650649231
2611	YANG_BREAST_CANCER_ESR1_UP	30	Up	0.359515351	0.650846756
2612	PID_LYMPH_ANGIOGENESIS_PATHWAY	24	Up	0.360353221	0.652113739
2613	REACTOME_TRYPTOPHAN_CATABOLISM	6	Down	0.360608018	0.652324994
2614	VARELA_ZMPSTE24_TARGETS_UP	37	Up	0.361132167	0.652844417
2615	REACTOME_KERATAN_SULFATE_KERATIN_META BOLISM	23	Up	0.361221107	0.652844417
2616	KIM_MYCN_AMPLIFICATION_TARGETS_UP	76	Up	0.361309661	0.652844417
2617	REACTOME_MEIOTIC_SYNAPSIS	42	Down	0.361620108	0.653155584
2618	MALONEY_RESPONSE_TO_17AAG_UP	38	Up	0.361909217	0.653427989
2619	PID_ERA_GENOMIC_PATHWAY	52	Down	0.362111755	0.653543942
2620	SANSOM_APC_TARGETS	176	Up	0.362701976	0.654359235
2621	HOLLEMAN_VINCRISTINE_RESISTANCE_B_ALL_D N	15	Down	0.364278875	0.656945177
2622	COLINA_TARGETS_OF_4EBP1_AND_4EBP2	304	Up	0.364413398	0.656945177
2623	MIKKELSEN_ES_HCP_WITH_H3K27ME3	13	Up	0.364727836	0.657261261
2624	KEGG_ENDOCYTOSIS	170	Up	0.364944578	0.65730223
2625	NIELSEN_GIST_VS_SYNOVIAL_SARCOMA_UP	15	Down	0.365134462	0.65730223
2626	WAKABAYASHI_ADIPOGENESIS_PPARG_BOUND_ 36HR	29	Up	3.65E-01	6.57E-01
2627	SESTO_RESPONSE_TO_UV_C2	51	Up	3.65E-01	6.57E-01
2628	VALK_AML_CLUSTER_5	20	Up	0.365588347	0.657319978

	A	B	C	D	E
2629	MIKKELSEN_MEF_LCP_WITH_H3K27ME3	24	Down	0.365595111	0.657319978
2630	DE_YY1_TARGETS_UP	11	Down	0.365755689	0.65735855
2631	PID_S1P_META_PATHWAY	19	Up	0.366337422	0.658104213
2632	CHIBA_RESPONSE_TO_TSA_DN	20	Up	0.366449139	0.658104213
2633	KAMIKUBO_MYELOID_CEBPA_NETWORK	15	Up	0.366753554	0.658270267
2634	JIANG_TIP30_TARGETS_UP	43	Up	0.366820236	0.658270267
2635	VALK_AML_CLUSTER_8	21	Up	0.367204605	0.658565571
2636	RIGGINS_TAMOXIFEN_RESISTANCE_UP	53	Up	0.367263551	0.658565571
2637	REACTOME_BINDING_AND_ENTRY_OF_HIV_VIRION	3	Down	0.368130784	0.659870241
2638	WAKABAYASHI_ADIPOGENESIS_PPARG_RXRA_BOUNDS_36HR	130	Up	0.368338511	0.659992213
2639	FUJIWARA_PARK2_HEPATOCYTE_PROLIFERATION_DN	5	Up	0.368694688	0.660379985
2640	TURJANSKI_MAPK7_TARGETS	8	Up	0.369132512	0.660913648
2641	ZHAN_MULTIPLE_MYELOMA_CD2_UP	33	Down	0.369485241	0.661259474
2642	NAKAMURA_METASTASIS	40	Up	0.369677019	0.661259474
2643	CASTELLANO_HRAS_TARGETS_DN	6	Up	0.369745509	0.661259474
2644	REACTOME_STEROID_HORMONES	13	Up	0.369990103	0.661446553
2645	MIKKELSEN_ES_LCP_WITH_H3K4ME3	84	Up	0.370842043	0.6625164
2646	DAVICIONI_PAX_FOXO1_SIGNATURE_IN_ARMS_DN	18	Up	0.370973827	0.6625164
2647	ST_T_CELL_SIGNAL_TRANSDUCTION	34	Down	0.37104998	0.6625164
2648	BRUINS_UVC_RESPONSE_VIA_TP53_GROUP_D	201	Up	0.371264068	0.6625164
2649	REACTOME_DNA_STRAND_ELONGATION	30	Up	0.371289614	0.6625164
2650	SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_UP	5	Down	0.372114629	0.663737871
2651	SEKI_INFLAMMATORY_RESPONSE_LPS_DN	17	Down	0.372729474	0.664404144
2652	REACTOME_SIGNALLING_TO_P38_VIA_RIT_AND_RIN	13	Down	0.372769394	0.664404144
2653	YAMAZAKI_TCEB3_TARGETS_DN	197	Up	0.372970337	0.664511629

	A	B	C	D	E
2654	GUTIERREZ_WALDENSTROEMS_MACROGLOBULI NEMIA_1_DN	5	Down	0.373575455	0.665338871
2655	BOYALT_LIVER_CANCER_SUBCLASS_G1_DN	39	Up	0.373755385	0.665408513
2656	MATTIOLI_MGUS_VS_MULTIPLE_MYELOMA	14	Down	0.374839335	0.666642577
2657	BENNETT_SYSTEMIC_LUPUS_ERYTHEMATOSUS	17	Up	0.375062043	0.666642577
2658	REACTOME_REGULATION_OF_INSULIN_SECRETI ON_BY_GLUCAGON_LIKE_PEPTIDE1	34	Up	0.375113957	0.666642577
2659	HUMMERICH_BENIGN_SKIN_TUMOR_UP	9	Up	0.375150984	0.666642577
2660	REACTOME_RNA_POL_III_CHAIN_ELONGATION	16	Down	0.375153992	0.666642577
2661	NAKAYAMA_FRA2_TARGETS	37	Up	0.375334849	0.666713219
2662	PID_LPA4_PATHWAY	14	Down	0.375840004	0.667359647
2663	SCHUHMACHER_MYC_TARGETS_DN	7	Up	0.376386072	0.668078208
2664	FIGUEROA_AML_METHYLATION_CLUSTER_5_DN	27	Up	0.376585823	0.668181754
2665	PID_CD8_TCR_DOWNSTREAM_PATHWAY	33	Up	0.37677663	0.66826936
2666	REACTOME_SEMA4D_INDUCED_CELL_MIGRATIO N_AND_GROWTH_CONE_COLLAPSE	24	Up	0.377171177	0.668560454
2667	SESTO_RESPONSE_TO_UV_C4	18	Up	3.77E-01	6.69E-01
2668	REACTOME_PI_3K_CASCADE	42	Down	3.77E-01	6.69E-01
2669	REACTOME_SYNTHESIS_SECRETION_AND_INACTI VATION_OF_GIP	7	Up	0.37764402	0.668803597
2670	WEI_MYCN_TARGETS_WITH_E_BOX	753	Up	0.377952654	0.668850613
2671	ENGELMANN_CANCER_PROGENITORS_DN	52	Down	0.378016996	0.668850613
2672	LUI_TARGETS_OF_PAX8_PPARG_FUSION	33	Up	0.378158496	0.668850613
2673	WANG_CLIM2_TARGETS_UP	227	Down	0.378404175	0.668850613
2674	KORKOLA_EMBRYONAL_CARCINOMA_DN	7	Down	0.378525265	0.668850613
2675	SABATES_COLORECTAL_ADENOMA_SIZE_UP	20	Up	0.378558503	0.668850613
2676	KYNG_RESPONSE_TO_H2O2	62	Up	0.378661458	0.668850613
2677	PID_CMYB_PATHWAY	63	Down	0.379474026	0.670035416
2678	WEBER_METHYLATED_LCP_IN_SPERM_DN	4	Up	0.380019738	0.670538331
2679	CHOI_ATL_ACUTE_STAGE	3	Up	0.380042678	0.670538331
2680	YANG_MUC2_TARGETS_DUODENUM_6MO_UP	3	Up	0.380317356	0.670772493

	A	B	C	D	E
2681	BENPORATH_PROLIFERATION	143	Down	0.380849665	0.671021113
2682	KEGG_LEUKOCYTE_TRANSENDOTHELIAL_MIGRATION	90	Up	0.380947118	0.671021113
2683	WILSON_PROTEASES_AT_TUMOR_BONE_INTERF ACE_DN	3	Down	0.381020897	0.671021113
2684	REACTOME_SIGNALING_BY_HIPPO	20	Up	0.38102638	0.671021113
2685	REACTOME_CHROMOSOME_MAINTENANCE	89	Down	0.382043442	0.672561574
2686	ENK_UV_RESPONSE KERATINOCYTE_UP	457	Up	0.382560849	0.673221606
2687	XU_AKT1_TARGETS_6HR	23	Up	0.383039909	0.673813689
2688	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPH OLIPIDS_YELLOW_DN	22	Down	0.383233408	0.673903183
2689	DAZARD_UV_RESPONSE_CLUSTER_G1	56	Down	0.383880509	0.674789958
2690	NAKAJIMA_EOSINOPHIL	13	Down	0.3841437	0.674804505
2691	BIOCARTA_GATA3_PATHWAY	11	Up	0.384174417	0.674804505
2692	KEGG_MAPK_SIGNALING_PATHWAY	221	Up	0.384698211	0.675473448
2693	KEGG_PROTEIN_EXPORT	23	Up	0.385480307	0.67639597
2694	PURBEY_TARGETS_OF_CTBP1_NOT_SATB1_DN	337	Down	0.385605468	0.67639597
2695	BIOCARTA_NDKDYNAMIN_PATHWAY	18	Up	0.385653067	0.67639597
2696	PETRETTO_LEFT_VENTRICLE_MASS_QTL_CIS_DN	7	Down	0.386005102	0.676762191
2697	BROWNE_HCMV_INFECTION_8HR_DN	40	Up	0.386405819	0.676961033
2698	WHITFIELD_CELL_CYCLE_S	151	Up	0.386452712	0.676961033
2699	REACTOME_AMINE_LIGAND_BINDING_RECEPTOR S	12	Down	0.386548332	0.676961033
2700	KRISHNAN_FURIN_TARGETS_UP	10	Up	0.386705426	0.676985231
2701	KEGG_SMALL_CELL_LUNG_CANCER	77	Up	0.386914258	0.677099951
2702	NAGY_TFTC_COMPONENTS_HUMAN	19	Down	0.387554641	0.677969523
2703	WESTON_VEGFA_TARGETS	85	Up	0.388249266	0.678803753
2704	MANALO_HYPOXIA_DN	284	Up	0.388318845	0.678803753
2705	SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CA NCER_BOX6_DN	4	Up	0.388821071	0.679430311

	A	B	C	D	E
2706	REACTOME_ADENYLATE_CYCLASE_INHIBITORY_PATHWAY	12	Down	0.389771894	0.680699527
2707	KEGG_ AMYOTROPHIC_ LATERAL_ SCLEROSIS_ ALS	47	Down	0.389835539	0.680699527
2708	KYNG_DNA_DAMAGE_BY_UV	49	Up	3.90E-01	6.81E-01
2709	KEGG_RIBOFLAVIN_METABOLISM	13	Up	3.90E-01	6.81E-01
2710	STEINER_ERYTHROCYTE_MEMBRANE_GENES	11	Up	0.390658103	0.681380413
2711	HOFFMAN_CLOCK_TARGETS_DN	3	Down	0.390981834	0.68159137
2712	KEGG_STARCH_AND_SUCROSE_METABOLISM	21	Down	0.391210822	0.68159137
2713	SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX2_UP	6	Up	0.391211808	0.68159137
2714	GHANDHI_DIRECT_IRRADIATION_DN	27	Down	0.391786129	0.682340384
2715	MCGARVEY_SILENCED_BY_METHYLATION_IN_COLORECTAL_CANCER	25	Up	0.392852954	0.683946282
2716	HOSHIDA_LIVER_CANCER_LATE_RECURRENCE_UP	47	Up	0.393293612	0.684461258
2717	BERTUCCI_INVASIVE_CARCINOMA_DUCTAL_VSLOBULAR_UP	22	Up	0.39351134	0.684588026
2718	LEE_LIVER_CANCER_MYC_DN	32	Up	0.393768784	0.684695601
2719	ACEVEDO_LIVER_CANCER_WITH_H3K9ME3_UP	77	Up	0.393935216	0.684695601
2720	REACTOME_ AMYLOIDS	35	Down	0.394007902	0.684695601
2721	WIERENGA_STAT5A_TARGETS_DN	155	Up	0.394838798	0.685756898
2722	LIU_CDX2_TARGETS_DN	3	Down	0.394908893	0.685756898
2723	CAIRO_LIVER_DEVELOPMENT_UP	146	Up	0.395063983	0.68577418
2724	REACTOME_POTASSIUM_CHANNELS	56	Down	0.395327922	0.685980328
2725	MARSHALL_VIRAL_INFECTION_RESPONSE_UP	6	Up	0.395758282	0.686474993
2726	ST_TYPE_I_INTERFERON_PATHWAY	7	Up	0.396316202	0.687055356
2727	REACTOME_ADHERENS_JUNCTIONS_INTERACTIONS	21	Down	0.396609672	0.687055356
2728	REACTOME_INTERACTIONS_OF_VPR_WITH_HOST_CELLULAR_PROTEINS	32	Down	0.396678726	0.687055356
2729	XU_GH1_AUTOCRINE_TARGETS_DN	124	Up	0.396696897	0.687055356

	A	B	C	D	E
2730	GAL_LEUKEMIC_STEM_CELL_UP	107	Down	0.396819908	0.687055356
2731	ST_FAS_SIGNALING_PATHWAY	59	Up	0.39723777	0.68752691
2732	SUBTIL_PROGESTIN_TARGETS	36	Up	0.397528715	0.687778535
2733	BIOCARTA_GRANULOCYTES_PATHWAY	4	Up	0.397855919	0.687985832
2734	GREENBAUM_E2A_TARGETS_DN	17	Up	0.397939741	0.687985832
2735	MASSARWEH_TAMOXIFEN_RESISTANCE_DN	218	Up	0.398136067	0.688073488
2736	PIEPOLI_LGI1_TARGETS_UP	8	Down	0.398602666	0.688628006
2737	LAU_APOPTOSIS_CDKN2A_UP	54	Up	0.398886067	0.688865741
2738	BORCZUK_MALIGNANT_MESOTHELIOMA_DN	65	Down	0.399287783	0.689297798
2739	KEGG_PHENYLALANINE_METABOLISM	11	Up	0.399428015	0.689297798
2740	REACTOME_PLATELET_HOMEOSTASIS	58	Up	0.399823416	0.689728236
2741	PID_NOTCH_PATHWAY	52	Down	0.400474648	0.69059953
2742	MIKKELSEN_MEF_ICP_WITH_H3K27ME3	99	Down	0.401095883	0.690996668
2743	REACTOME_SYNTHESIS_OF_PIPS_AT_THE_EARLY_ENDOSOME_MEMBRANE	12	Up	0.401147287	0.690996668
2744	TESAR_ALK_AND_JAK_TARGETS_MOUSE_ES_D4_UP	2	Down	0.401247882	0.690996668
2745	FOURNIER_ACINAR_DEVELOPMENT_EARLY_UP	21	Down	0.401289917	0.690996668
2746	REACTOME_NFKB_ACTIVATION_THROUGH_FADD_RIP1_PATHWAY_MEDIATED_BY_CASPASE_8_AND_D10	12	Up	0.401646307	0.691342049
2747	SETLUR_PROSTATE_CANCER_TMPRSS2_ERG_FUSION_UP	64	Down	0.402093733	0.691342049
2748	RAMPON_ENRICHED_LEARNING_ENVIRONMENT_EARLY_UP	13	Up	0.40218164	0.691342049
2749	REACTOME_FORMATION_OF_TRANSCRIPTION_COUPLED_NER_TC_NER_REPAIR_COMPLEX	26	Down	4.02E-01	6.91E-01
2750	KYNG_DNA_DAMAGE_UP	184	Up	4.02E-01	6.91E-01
2751	BIOCARTA_EIF4_PATHWAY	23	Down	0.403105273	0.692608151
2752	REACTOME_REGULATION_OF_MRNA_STABILITY_BY_PROTEINS_THAT_BIND_AU_RICH_ELEMENTS	79	Down	0.403620163	0.693240738

	A	B	C	D	E
2753	CHIARETTI_ACUTE_LYMPHOBLASTIC_LEUKEMIA_Z AP70	58	Up	0.40384657	0.693251346
2754	IVANOVA_HEMATOPOIESIS_STEM_CELL_SHORT_ TERM	27	Down	0.403919779	0.693251346
2755	PID_ERB_GENOMIC_PATHWAY	12	Down	0.40422557	0.693524261
2756	GRADE_COLON_AND_RECTAL_CANCER_DN	79	Up	0.404519687	0.693577627
2757	DAVIES_MULTIPLE_MYELOMA_VS_MGUS_UP	11	Up	0.404550252	0.693577627
2758	PID_IL1_PATHWAY	29	Up	0.404747108	0.693663433
2759	FLOTHO_PEDIATRIC_ALL_THERAPY_RESPONSE_D N	26	Down	0.405387586	0.693803668
2760	REACTOME_POST_TRANSLATIONAL_PROTEIN_M ODIFICATION	154	Up	0.405442349	0.693803668
2761	COLLIS_PRKDC_REGULATORS	15	Down	0.405450476	0.693803668
2762	ODONNELL_METASTASIS_UP	56	Down	0.405552018	0.693803668
2763	RUAN_RESPONSE_TO_TNF_UP	7	Up	0.405563118	0.693803668
2764	RODRIGUES_NTN1_TARGETS_DN	130	Up	0.40580366	0.693963913
2765	REACTOME_DNA_REPAIR	100	Down	0.406984072	0.69573073
2766	CHEOK_RESPONSE_TO_MERCAPTOPYRINE_UP	13	Down	0.407433129	0.696246487
2767	PID_MAPK_TRK_PATHWAY	34	Down	0.407951804	0.696662691
2768	REACTOME_CD28_DEPENDENT_VAV1_PATHWAY	8	Down	0.40797157	0.696662691
2769	AMIT_EGF_RESPONSE_20_MCF10A	14	Up	0.408252556	0.696794659
2770	ZHAN_MULTIPLE_MYELOMA_CD2_DN	42	Up	0.408388709	0.696794659
2771	WANG_BARRETTS_ESOPHAGUS_DN	21	Up	0.40849126	0.696794659
2772	IIZUKA_LIVER_CANCER_PROGRESSION_L0_L1_UP	15	Up	0.409010218	0.697394668
2773	ZWANG_DOWN_BY_2ND_EGF_PULSE	211	Down	0.409153059	0.697394668
2774	CHEN_ETV5_TARGETS_SERTOLI	9	Up	0.409357689	0.697394668
2775	KIM_GASTRIC_CANCER_CHEMOSENSITIVITY	82	Down	0.409550952	0.697394668
2776	KOBAYASHI_EGFR_SIGNALING_6HR_UP	7	Down	0.409580995	0.697394668
2777	TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3 D_DN	15	Up	0.410831968	0.699272712

	A	B	C	D	E
2778	HOLLEMAN_ASPARAGINASE_RESISTANCE_ALL_D N	24	Down	0.411271744	0.699705491
2779	PENG_LEUCINE_DEPRIVATION_DN	184	Down	0.411640004	0.699705491
2780	KEGG_LINOLEIC_ACID_METABOLISM	9	Up	0.41173325	0.699705491
2781	MIKKELSEN_IPS_WITH_HCP_H3K27ME3	36	Down	0.411800244	0.699705491
2782	BERGER_MBD2_TARGETS	2	Up	0.411854911	0.699705491
2783	MCBRYAN_PUBERTAL_BREAST_6_7WK_DN	64	Up	0.412101031	0.699705491
2784	REACTOME_DOWNSTREAM_TCR_SIGNALING	24	Down	0.412122832	0.699705491
2785	WHITESIDE_CISPLATIN_RESISTANCE_DN	13	Up	0.412454073	0.699798942
2786	REACTOME_PECAM1_INTERACTIONS	8	Up	0.412474086	0.699798942
2787	TURASHVILI_BREAST_CARCINOMA_DUCTAL_VS_L OBULAR_DN	5	Up	0.413361876	0.701053433
2788	DELACROIX_RAR_TARGETS_UP	36	Up	0.413515911	0.701063036
2789	ST_INTEGRIN_SIGNALING_PATHWAY	75	Up	0.413765252	0.701234152
2790	REACTOME_G1_PHASE	33	Up	4.14E-01	7.02E-01
2791	REACTOME_GPVI_MEDIATED_ACTIVATION_CASC ADE	25	Down	4.14E-01	7.02E-01
2792	MIDORIKAWA_AMPLIFIED_IN_LIVER_CANCER	47	Up	0.415696958	0.703750672
2793	GUENTHER_GROWTH_SPHERICAL_VS_ADHERENT _UP	17	Down	0.416106965	0.704192482
2794	PID_P38_MKK3_6PATHWAY	25	Down	0.41639196	0.704422488
2795	REACTOME_P75NTR_RECRUITS_SIGNALLING_CO MPLEXES	10	Up	0.416695988	0.704436891
2796	MIKKELSEN_MEF_HCP_WITH_H3K27ME3	324	Down	0.416931718	0.704436891
2797	BACOLOD_RESISTANCE_TO_ALKYLATING_AGENT S_DN	55	Up	0.417027412	0.704436891
2798	KEGG_UBIQUITIN_MEDIATED_PROTEOLYSIS	129	Down	0.417040907	0.704436891
2799	TERAO_AOX4_TARGETS_SKIN_UP	34	Up	0.417145909	0.704436891
2800	SABATES_COLORECTAL_ADENOMA_DN	151	Up	0.417507487	0.704795596
2801	HO_LIVER_CANCER_VASCULAR_INVASION	11	Down	0.41772607	0.704912743
2802	NADERI_BREAST_CANCER_PROGNOSIS_DN	15	Down	0.418038047	0.705187351
2803	PID_ERBB1_INTERNALIZATION_PATHWAY	40	Down	0.418290763	0.705361833

	A	B	C	D	E
2804	REACTOME_CGMP_EFFECTS	14	Up	0.418669535	0.70560589
2805	BIOCARTA_STATHMIN_PATHWAY	11	Up	0.418773844	0.70560589
2806	BIOCARTA_DNAFRAGMENT_PATHWAY	9	Down	0.418944481	0.70560589
2807	BIOCARTA_CARM1_PATHWAY	12	Up	0.419122215	0.70560589
2808	MIKKELSEN_MEF_HCP_WITH_H3_UNMETHYLATE D	113	Up	0.419182166	0.70560589
2809	XU_HGF_SIGNALING_NOT_VIA_AKT1_48HR_DN	20	Up	0.419496749	0.705883953
2810	RAMASWAMY_METASTASIS_DN	46	Up	0.42005614	0.706562472
2811	PLASARI_TGFB1_SIGNALING_VIA_NFIC_1HR_DN	95	Down	0.420298512	0.706562472
2812	BIOCARTA_CREB_PATHWAY	24	Up	0.420475536	0.706562472
2813	REACTOME_PLATELET_ADHESION_TO_EXPOSED_ COLLAGEN	7	Up	0.420668129	0.706562472
2814	BYSTRYKH_HEMATOPOIESIS_STEM_CELL_AND_B RAIN_QTL_TRANS	164	Down	0.420943738	0.706562472
2815	REACTOME_ANDROGEN_BIOSYNTHESIS	3	Up	0.42102722	0.706562472
2816	LEE_DIFFERENTIATING_T_LYMPHOCYTE	143	Down	0.421086898	0.706562472
2817	MCCLUNG_DELTA_FOSB_TARGETS_8WK	42	Up	0.42109628	0.706562472
2818	KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN	944	Down	0.421517295	0.707017826
2819	ACEVEDO_LIVER_CANCER_UP	899	Up	0.422123751	0.707669961
2820	GAVIN_FOXP3_TARGETS_CLUSTER_P2	56	Up	0.422205634	0.707669961
2821	SIMBULAN_UV_RESPONSE_NORMAL_UP	6	Down	0.422617647	0.708109356
2822	GENTILE_UV_HIGH_DOSE_DN	293	Up	0.423339859	0.709068003
2823	WONG_ENDMETRIUM_CANCER_DN	59	Down	0.423722671	0.709457696
2824	FONTAINE_FOLLICULAR_THYROID_ADENOMA_UP	64	Down	0.424079224	0.709803165
2825	NABA_CORE_MATRISOME	173	Up	0.424622846	0.710461384
2826	REACTOME_DOWNREGULATION_OF_SMAD2_3_S MAD4_TRANSCRIPTIONAL_ACTIVITY	19	Down	0.424861528	0.710609105
2827	MARIADASON_REGULATED_BY_HISTONE_ACETYL ATION_DN	49	Down	0.425212872	0.710940274
2828	PID_SMAD2_3NUCLEAR_PATHWAY	67	Up	0.425382674	0.710940274

	A	B	C	D	E
2829	POS_RESPONSE_TO_HISTAMINE_DN	11	Up	0.425510919	0.710940274
2830	SCHAEFFER_PROSTATE_DEVELOPMENT_12HR_DN	44	Down	0.42588375	0.711311671
2831	BARRIER_COLON_CANCER_RECURRENCE_DN	20	Down	4.26E-01	7.11E-01
2832	BIOCARTA_LEPTIN_PATHWAY	9	Up	4.27E-01	7.13E-01
2833	NIKOLSKY_BREAST_CANCER_19Q13.4_AMPLICON	7	Down	0.427290363	0.712682861
2834	REACTOME_COSTIMULATION_BY_THE_CD28_FAMILY	43	Up	0.427308052	0.712682861
2835	REACTOME_G_ALPHA1213_SIGNALLING_EVENTS	64	Down	0.427577837	0.712881185
2836	KYNG_RESPONSE_TO_H2O2_VIA_ERCC6_DN	41	Down	0.428037692	0.713178579
2837	DAZARD_UV_RESPONSE_CLUSTER_G3	12	Up	0.428058085	0.713178579
2838	BALLIF_DEVELOPMENTAL_DISABILITY_P16_P12_DELETION	9	Up	0.428322617	0.71336777
2839	HOFMANN_MYELODYSPLASTIC_SYNDROME_HIGH_RISK_DN	9	Down	0.42868511	0.713719924
2840	IVANOVA_HEMATOPOIESIS_STEM_CELL	214	Up	0.428972382	0.713946639
2841	GOERING_BLOOD_HDL_CHOLESTEROL_QTL_TRANS	11	Down	0.429158647	0.714005144
2842	KEGG_TYPE_I_DIABETES_MELLITUS	21	Up	0.429796928	0.714600786
2843	ANASTASSIOU_CANCER_MESENCHYMAL_TRANSITION_SIGNATURE	49	Up	0.42981914	0.714600786
2844	CAMPS_COLON_CANCER_COPY_NUMBER_DN	35	Up	0.430196658	0.714976858
2845	BALDWIN_PRKCI_TARGETS_UP	31	Up	0.431083206	0.716042809
2846	HOWLIN_CITED1_TARGETS_1_UP	26	Down	0.431266436	0.716042809
2847	GAUSSMANN_MLL_AF4_FUSION_TARGETS_G_UP	172	Up	0.431292664	0.716042809
2848	BIOCARTA_PROTEASOME_PATHWAY	28	Down	0.431482803	0.716106865
2849	MEISSNER_BRAIN_HCP_WITH_H3K4ME3_AND_H3K27ME3	841	Up	0.431789746	0.716236019
2850	NABA_MATRISOME	509	Up	0.431968374	0.716236019

	A	B	C	D	E
2851	HAMAI_APOPTOSIS_VIA_TRAIL_DN	154	Down	0.432123179	0.716236019
2852	MATTIOLI_MGUS_VS_PCL	90	Down	0.432218093	0.716236019
2853	CHUANG_OXIDATIVE_STRESS_RESPONSE_DN	10	Down	0.432433391	0.716236019
2854	JOHNSTONE_PARVB_TARGETS_2_DN	325	Up	0.43247013	0.716236019
2855	AUJLA_IL22_AND_IL17A_SIGNALING	2	Up	0.432937692	0.716516213
2856	REACTOME_RESOLUTION_OF_AP_SITES_VIA_THE_MULTIPLE_NUCLEOTIDE_PATCH_REPLACEMENT_PATHWAY	16	Down	0.432942601	0.716516213
2857	BROWNE_INTERFERON_RESPONSIVE_GENES	45	Up	0.43322943	0.716739865
2858	REACTOME_THROMBOXANE_SIGNALLING_THROUGH_TP_RECEPTOR	17	Up	0.43432601	0.71814493
2859	REACTOME_G_ALPHA_I_SIGNALLING_EVENTS	82	Up	0.43438269	0.71814493
2860	AGUIRRE_PANCREATIC_CANCER_COPY_NUMBER_UP	279	Down	0.434975077	0.718872767
2861	BIOCARTA_CELL2CELL_PATHWAY	13	Up	0.435390295	0.719083473
2862	OSWALD_HEMATOPOIETIC_STEM_CELL_IN_COLLAGEN_GEL_DN	231	Up	0.435406945	0.719083473
2863	MEISSNER_NPC_HCP_WITH_H3K27ME3	29	Down	0.435742533	0.71927614
2864	RASHI_NFKB1_TARGETS	15	Down	0.435828061	0.71927614
2865	PIEPOLI_LGI1_TARGETS_DN	7	Down	0.43656195	0.719707287
2866	KYNG_ENVIRONMENTAL_STRESS_RESPONSE_NOT_BY_UV_IN_WS	9	Up	0.436567459	0.719707287
2867	WELCSH_BRCA1_TARGETS_DN	139	Down	0.436862093	0.719707287
2868	PID_MYC_ACTIV_PATHWAY	77	Down	0.436965966	0.719707287
2869	REACTOME_CLASS_A1_RHODOPSIN_LIKE_RECEPTORS	88	Up	0.436994246	0.719707287
2870	MA_PITUITARY_FETAL_VS_ADULT_UP	24	Down	0.437003218	0.719707287
2871	REACTOME_FGFR1_LIGAND_BINDING_AND_ACTIVATION	5	Down	0.437223668	0.719819453
2872	KEGG_ENDOMETRIAL_CANCER	49	Down	4.38E-01	7.20E-01
2873	REACTOME_NEURONAL_SYSTEM	198	Down	4.38E-01	7.20E-01
2874	CHESLER_BRAIN_HIGHEST_EXPRESSION	37	Down	0.438071936	0.720387397

	A	B	C	D	E
2875	REACTOME_RAF_MAP_KINASE_CASCADE	10	Down	0.438178493	0.720387397
2876	SCHRAETS_MLL_TARGETS_DN	21	Down	0.438337215	0.720397683
2877	DUTERTRE_ESTRADIOL_RESPONSE_6HR_DN	80	Down	0.438810366	0.720924541
2878	REACTOME_ACTIVATED_AMPK_STIMULATES_FAT TY_ACID_OXIDATION_IN_MUSCLE	17	Up	0.439110802	0.721167376
2879	LIU_IL13_MEMORY_MODEL_UP	14	Up	0.439330526	0.721277531
2880	ST_INTERFERON_GAMMA_PATHWAY	8	Up	0.439568264	0.721417176
2881	BIOCARTA_MAPK_PATHWAY	83	Up	0.439889527	0.721693755
2882	BIOCARTA_EDG1_PATHWAY	23	Up	0.440191353	0.721938266
2883	REACTOME_IONOTROPIC_ACTIVITY_OF_KAINATE _RECEPTORS	10	Down	0.440427886	0.721953018
2884	BOYALT_LIVER_CANCER_SUBCLASS_G12_UP	37	Up	0.440505937	0.721953018
2885	REACTOME_SIGNALING_BY_NOTCH4	11	Up	0.440817387	0.72214507
2886	REACTOME_GLYCOSAMINOGLYCAN_METABOLIS M	90	Down	0.440928789	0.72214507
2887	ENK_UV_RESPONSE_KERATINOCYTE_DN	470	Up	0.441133468	0.722229951
2888	SMID_BREAST_CANCER_ERBB2_DN	5	Down	0.441769833	0.722935952
2889	REACTOME_TRANSCRIPTIONAL_ACTIVITY_OF_SM AD2_SMAD3_SMAD4_HETEROTRIMER	36	Up	0.441870694	0.722935952
2890	MATZUK_OVULATION	11	Up	0.442050624	0.722979993
2891	REACTOME_REGULATION_OF_THE_FANCONI_AN EMIA_PATHWAY	6	Down	0.442634784	0.723684897
2892	KEGG_ARRHYTHMOGENIC_RIGHT_VENTRICULAR _CARDIOMYOPATHY_ARVC	59	Up	0.443067857	0.723715048
2893	AFFAR_YY1_TARGETS_UP	174	Up	0.443101543	0.723715048
2894	REACTOME_SIGNALING_BY_ERBB4	74	Up	0.443112727	0.723715048
2895	REACTOME_NCAM1_INTERACTIONS	35	Up	0.443461397	0.724034243
2896	REACTOME_STRIATED_MUSCLE_CONTRACTION	18	Down	0.444702985	0.725810572
2897	KEGG_GLYCOPHINGOLIPID_BIOSYNTHESIS_LACT O_AND_NEOLACTO_SERIES	20	Down	0.444957817	0.72597572
2898	ZWANG_EGF_PERSISTENTLY_DN	48	Down	0.445290305	0.726267411
2899	SEMBA_FHIT_TARGETS_UP	7	Down	0.445674545	0.726524701

	A	B	C	D	E
2900	NUMATA_CSF3_SIGNALING_VIA_STAT3	16	Down	0.445755579	0.726524701
2901	GROSS_HYPOXIA_VIA_ELK3_AND_HIF1A_UP	132	Up	0.446054888	0.726761843
2902	REACTOME_GENERIC_TRANSCRIPTION_PATHWAY	315	Down	0.446441972	0.727141784
2903	ELVIDGE_HYPOXIA_BY_DMOG_DN	55	Up	0.446966872	0.727745854
2904	FARMER_BREAST_CANCER_CLUSTER_1	11	Up	0.447189385	0.727785538
2905	RIZKI_TUMOR_INVASIVENESS_2D_UP	56	Up	0.447299302	0.727785538
2906	CASTELLANO_HRAS_TARGETS_UP	4	Down	0.447744608	0.728199167
2907	KEGG_NEUROACTIVE_LIGAND_RECEPTOR_INTERACTION	121	Down	0.447861752	0.728199167
2908	URS_ADIPOCYTE_DIFFERENTIATION_UP	51	Up	0.44839863	0.728821303
2909	FARDIN_HYPOXIA_9	7	Up	0.448865651	0.728975883
2910	HOWLIN_CITED1_TARGETS_1_DN	34	Up	0.448894253	0.728975883
2911	LEIN_MIDBRAIN_MARKERS	58	Up	0.448957368	0.728975883
2912	STAEGE_EWING_FAMILY_TUMOR	24	Up	0.449110856	0.728975883
2913	BOYAULT_LIVER_CANCER_SUBCLASS_G123_UP	45	Down	4.49E-01	7.29E-01
2914	REACTOME_AUTODEGRADATION_OF_THE_E3_UBIQUITIN_LIGASE_COP1	46	Down	4.50E-01	7.29E-01
2915	BROWNE_HCMV_INFECTION_18HR_UP	158	Down	0.449807254	0.729338375
2916	DELACROIX_RARG_BOUND_MEF	308	Up	0.450167161	0.729338375
2917	REACTOME_G_ALPHA_Z_SIGNALLING_EVENTS	38	Down	0.450193292	0.729338375
2918	REACTOME_COMPLEMENT_CASCADE	9	Up	0.450303246	0.729338375
2919	LIN_TUMOR_ESCAPE_FROM_IMMUNE_ATTACK	15	Up	0.450414683	0.729338375
2920	POOLA_INVASIVE_BREAST_CANCER_UP	159	Down	0.451175536	0.730320111
2921	PID_INTEGRIN_A4B1_PATHWAY	30	Up	0.451509133	0.730609813
2922	NIELSEN_LIPOSARCOMA_DN	19	Up	0.452188338	0.731458369
2923	KEGG_HOMOLOGOUS_RECOMBINATION	27	Down	0.45261791	0.731902677
2924	PID_P73PATHWAY	71	Down	0.453155703	0.73252162
2925	SATO_SILENCED_EPIGENETICALLY_IN_PANCREATIC_CANCER	27	Down	0.45340096	0.73266742
2926	RUAN_RESPONSE_TO_TROGLITAZONE_DN	14	Up	0.453578392	0.732703556
2927	MCCABE_BOUND_BY_HOXC6	307	Down	0.453966581	0.732955139

	A	B	C	D	E
2928	ROME_INSULIN_TARGETS_IN_MUSCLE_UP	416	Up	0.454181436	0.732955139
2929	BRACHAT_RESPONSE_TO_CAMPTOTHECIN_DN	43	Up	0.454199502	0.732955139
2930	WU_HBX_TARGETS_2_DN	11	Up	0.45458438	0.733195159
2931	REACTOME_ION_TRANSPORT_BY_P_TYPE_ATPAS ES	28	Down	0.455009239	0.733195159
2932	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_12	11	Up	0.455064399	0.733195159
2933	NUTT_GBM_VS_AO_GLIOMA_DN	40	Down	0.455146889	0.733195159
2934	WORSCHER_TUMOR_REJECTION_UP	22	Down	0.455346474	0.733195159
2935	BIOCARTA_PGC1A_PATHWAY	19	Down	0.455347124	0.733195159
2936	BIOCARTA_PPARA_PATHWAY	46	Up	0.455434453	0.733195159
2937	CADWELL_ATG16L1_TARGETS_UP	44	Up	0.455839907	0.733551835
2938	YIH_RESPONSE_TO_ARSENITE_C4	17	Up	0.456090214	0.733551835
2939	ROETH_TERT_TARGETS_DN	2	Up	0.456169595	0.733551835
2940	HASLINGER_B_CLL_WITH_6Q21_DELETION	15	Down	0.456295752	0.733551835
2941	REACTOME_PRE_NOTCH_EXPRESSION_AND_PRO CESSING	41	Down	0.456432253	0.733551835
2942	CHANDRAN_METASTASIS_DN	261	Up	0.456867414	0.733606734
2943	MATTHEWS_SKIN_CARCINOGENESIS_VIA_JUN	9	Up	0.456901271	0.733606734
2944	BIDUS_METASTASIS_DN	136	Down	0.456932194	0.733606734
2945	LU_EZH2_TARGETS_UP	252	Up	0.45718513	0.733763499
2946	REACTOME_INTRINSIC_PATHWAY_FOR_APOPTOS IS	28	Up	0.457694985	0.733941101
2947	JI_METASTASIS_REPRESSED_BY_STK11	20	Down	0.45773647	0.733941101
2948	TERAMOTO_OPN_TARGETS_CLUSTER_6	24	Up	0.457761783	0.733941101
2949	INGRAM_SHH_TARGETS_DN	52	Up	0.458425289	0.734755593
2950	GENTILE_RESPONSE_CLUSTER_D3	59	Down	0.458698951	0.734944912
2951	BUDHU_LIVER_CANCER_METASTASIS_UP	4	Up	0.459243017	0.735567206
2952	MAGRANGEAS_MULTIPLE_MYELOMA_IGG_VS_IG A_UP	17	Up	0.459608148	0.735666282
2953	REACTOME_SIGNALING_BY_NODAL	17	Down	0.459616267	0.735666282
2954	AMUNDSON_GAMMA_RADIATION_RESISTANCE	11	Down	4.60E-01	7.36E-01
2955	CROMER_METASTASIS_DN	72	Up	4.61E-01	7.37E-01

	A	B	C	D	E
2956	REACTOME_SOS_MEDIATED_SIGNALLING	14	Down	0.461085483	0.737022956
2957	BUKANOVICH_T_LYMPHOCYTE_HOMING_ON_T UMOR_DN	19	Down	0.461171437	0.737022956
2958	RODWELL_AGING_KIDNEY_DN	130	Up	0.461243785	0.737022956
2959	REACTOME_CA_DEPENDENT_EVENTS	26	Up	0.461801913	0.737665328
2960	REACTOME_P53_INDEPENDENT_G1_S_DNA_DAM AGE_CHECKPOINT	47	Down	0.462283646	0.738185275
2961	VERHAAK_GLIOMASTOMA_NEURAL	107	Up	0.462756687	0.73866971
2962	REACTOME_THE_NLRP3_INFLAMMASOME	7	Down	0.463014415	0.73866971
2963	BROWNE_HCMV_INFECTION_2HR_UP	29	Up	0.463114017	0.73866971
2964	REACTOME_DSCAM_INTERACTIONS	9	Down	0.46321235	0.73866971
2965	REACTOME_INHIBITION_OF_INSULIN_SECRETION _BY_ADRENALINE_NORADRENALINE	21	Down	0.463811282	0.738704962
2966	WU_ALZHEIMER_DISEASE_UP	10	Up	0.463827801	0.738704962
2967	BIOCARTA_EPO_PATHWAY	18	Up	0.463839153	0.738704962
2968	ZHOU_INFLAMMATORY_RESPONSE_FIMA_DN	222	Down	0.463859814	0.738704962
2969	XU_HGF_TARGETS_REPRESSED_BY_AKT1_DN	54	Up	0.464318156	0.739185743
2970	HOFMANN_MYELODYSPLASTIC_SYNDROM_HIGH_ RISK_UP	10	Down	0.464498432	0.739223675
2971	URS_ADIPOCYTE_DIFFERENTIATION_DN	23	Down	0.465078379	0.739413868
2972	WEINMANN_ADAPTATION_TO_HYPOXIA_UP	24	Up	0.465246163	0.739413868
2973	HONMA_DOCETAXEL_RESISTANCE	33	Down	0.465247285	0.739413868
2974	DER_IFN_BETA_RESPONSE_DN	7	Up	0.465388947	0.739413868
2975	HOFFMANN_SMALL_PRE_BII_TO_IMMATURE_B_ LYMPHOCYTE_DN	40	Down	0.465646479	0.739413868
2976	REACTOME_COMMON_PATHWAY	2	Up	0.465712676	0.739413868
2977	REACTOME_DESTABILIZATION_OF_MRNA_BY_AU F1_HNRNP_D0	49	Down	0.465788707	0.739413868
2978	KUMAR_AUTOPHAGY_NETWORK	59	Down	0.465893151	0.739413868
2979	REACTOME_PYRUVATE_METABOLISM	16	Down	0.466167851	0.739413868
2980	GRANDVAUX_IRF3_TARGETS_UP	8	Up	0.466182839	0.739413868

	A	B	C	D	E
2981	CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_UP	398	Down	0.466474504	0.739423648
2982	BIOCARTA_EIF_PATHWAY	16	Down	0.466501988	0.739423648
2983	FARMER_BREAST_CANCER_CLUSTER_8	7	Down	0.467372219	0.740372747
2984	SILIGAN_BOUND_BY_EWS_FLT1_FUSION	38	Up	0.467469972	0.740372747
2985	WANG_MLL_TARGETS	186	Up	0.467570852	0.740372747
2986	TCGA_GLIOMASTOMA_MUTATED	8	Down	0.468175996	0.740380151
2987	KEGG_BASE_EXCISION_REPAIR	33	Down	0.468256378	0.740380151
2988	OXFORD_RALA_AND_RALB_TARGETS_DN	9	Up	0.468277201	0.740380151
2989	PHESSER_TARGETS_OF_APC_AND_MBD2_DN	10	Up	0.46830098	0.740380151
2990	REACTOME_ARMS_MEDIATED_ACTIVATION	15	Down	0.468385863	0.740380151
2991	RADMACHER_AML_PROGNOSIS	61	Up	0.468515693	0.740380151
2992	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_MAGENTA_DN	12	Down	0.469031159	0.740946917
2993	STAT3_PATHWAY	9	Up	0.46931076	0.741140822
2994	KANG_AR_TARGETS_UP	12	Up	0.46952903	0.741237777
2995	ZHAN_MULTIPLE_MYELOMA_MF_DN	36	Up	4.70E-01	7.42E-01
2996	LIN_APC_TARGETS	73	Down	4.70E-01	7.42E-01
2997	YAMASHITA_LIVER_CANCER_WITH_EPCAM_DN	6	Up	0.470476559	0.741805734
2998	REACTOME_AUTODEGRADATION_OF_CDH1_BY_CDH1_APC_C	56	Down	0.470620734	0.741805734
2999	HOLLEMAN_VINCRIStINE_RESISTANCE_B_ALL_UP	37	Down	0.470673776	0.741805734
3000	BIOCARTA_CCR5_PATHWAY	15	Up	0.47088682	0.741846847
3001	CORRADETTI_MTOR_PATHWAY_REGULATORS_DN	6	Up	0.471013871	0.741846847
3002	MELLMAN_TUT1_TARGETS_UP	18	Up	0.471195013	0.74188485
3003	DEBOSSCHER_NFKB_TARGETS_REPRESSED_BY_GLUCOCORTICOIDS	5	Down	0.471459594	0.742054157
3004	REACTOME_FORMATION_OF_FIBRIN_CLOT_CLOT_TING_CASCADE	11	Up	0.472003848	0.742304704

	A	B	C	D	E
3005	DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN	469	Up	0.472087632	0.742304704
3006	REACTOME_ACTIVATION_OF_ATR_IN_RESPONSE_TO_REPLICATION_STRESS	34	Up	0.47246264	0.742304704
3007	CASORELLI_ACUTE_PROMYELOCYTIC_LEUKEMIA_UP	145	Up	0.472730465	0.742304704
3008	ROESSLER_LIVER_CANCER_METASTASIS_DN	48	Up	0.472972826	0.742304704
3009	KAAB_HEART_ATRIUM_VS_VENTRICLE_DN	228	Up	0.473086844	0.742304704
3010	PILON_KLF1_TARGETS_DN	1848	Up	0.473165738	0.742304704
3011	HOLLMANN_APOPTOSIS_VIA_CD40_UP	177	Up	0.47335713	0.742304704
3012	YIH_RESPONSE_TO_ARSENITE_C3	33	Up	0.473413056	0.742304704
3013	MONNIER_POSTRADIATION_TUMOR_ESCAPE_UP	374	Down	0.473558323	0.742304704
3014	SHIPP_DLCL_VS_FOLLICULAR_LYMPHOMA_DN	29	Up	0.473590909	0.742304704
3015	OXFORD_RALB_TARGETS_DN	8	Up	0.473660187	0.742304704
3016	REACTOME_DESTABILIZATION_OF_MRNA_BY_BR_F1	17	Down	0.473661097	0.742304704
3017	WAKASUGI_HAVE_ZNF143_BINDING_SITES	56	Down	0.474143095	0.742620099
3018	PID_ERBB_NETWORK_PATHWAY	10	Up	0.474176685	0.742620099
3019	ZHAN_MULTIPLE_MYELOMA_CD1_AND_CD2_DN	46	Up	0.476079636	0.745151144
3020	BIOCARTA_ATRBRCA_PATHWAY	20	Up	0.476108212	0.745151144
3021	REACTOME_GLUCAGON_SIGNALING_IN_METABOLIC_REGULATION	27	Up	0.478344058	0.748202562
3022	REACTOME_NEUROTRANSMITTER_RECEPTOR_BINDING_AND_DOWNSTREAM_TRANSMISSION_IN_THE_POSTSYNAPTIC_CELL	105	Down	0.478434529	0.748202562
3023	YANG_BREAST_CANCER_ESR1_DN	24	Down	0.478537708	0.748202562
3024	REACTOME_PRE_NOTCH_PROCESSING_IN_GOLGI	16	Down	0.47869129	0.748202562
3025	NAKAMURA_METASTASIS_MODEL_UP	37	Up	0.479045538	0.74821568
3026	TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_GNANULOCYTE_DN	9	Up	0.479411231	0.74821568

	A	B	C	D	E
3027	ICHIBA_GRAFT_VERSUS_HOST_DISEASE_35D_UP	75	Up	0.479555098	0.74821568
3028	REACTOME_DEVELOPMENTAL_BIOLOGY	336	Down	0.479678549	0.74821568
3029	HATADA_METHYLATED_IN_LUNG_CANCER_UP	270	Up	0.479684973	0.74821568
3030	JU_AGING_TERC_TARGETS_UP	3	Up	0.479921203	0.74821568
3031	REACTOME_TRANSPORT_OF_RIBONUCLEOPROTEINS_INTO_THE_HOST_NUCLEUS	27	Down	0.479972042	0.74821568
3032	GAUSSMANN_MLL_AF4_FUSION_TARGETS_D_UP	31	Up	0.479987225	0.74821568
3033	BIOCARTA_AKAP95_PATHWAY	11	Down	0.480251324	0.74821568
3034	REACTOME_P53_DEPENDENT_G1_DNA_DAMAGE_RESPONSE	52	Down	0.480407405	0.74821568
3035	WEBER_METHYLATED_ICP_IN_FIBROBLAST	2	Down	0.480765933	0.74821568
3036	WEBER_METHYLATED_ICP_IN_SPERM_UP	2	Down	4.81E-01	7.48E-01
3037	PID_BCR_5PATHWAY	57	Up	4.81E-01	7.48E-01
3038	VIETOR_IFRD1_TARGETS	20	Down	0.481171983	0.74821568
3039	GRADE_COLON_AND_RECTAL_CANCER_UP	276	Up	0.481253746	0.74821568
3040	CHIARADONNA_NEOPLASTIC_TRANSFORMATION_CDC25_UP	103	Up	0.481358501	0.74821568
3041	PID_FANCONI_PATHWAY	46	Up	0.481391676	0.74821568
3042	ACEVEDO_LIVER_CANCER_WITH_H3K9ME3_DN	76	Down	0.481909418	0.748585482
3043	REACTOME_REGULATION_OF_APOPTOSIS	55	Down	0.481946463	0.748585482
3044	BIOCARTA_CTLA4_PATHWAY	8	Down	0.482595242	0.748875941
3045	BOYLAN_MULTIPLE_MYELOMA_C_CLUSTER_UP	34	Down	0.482625602	0.748875941
3046	CHIANG_LIVER_CANCER_SUBCLASS_UNANNOTATED_DN	188	Down	0.482782298	0.748875941
3047	PID_CONE_PATHWAY	8	Up	0.482797546	0.748875941
3048	PID_RANBP2_PATHWAY	11	Down	0.482925924	0.748875941
3049	MATZUK_SPERMATID_DIFFERENTIATION	25	Down	0.483818373	0.750013719
3050	PID_ATM_PATHWAY	34	Down	0.484444648	0.75030062
3051	KUNINGER_IGF1_VS_PDGF_B_TARGETS_DN	37	Up	0.48459713	0.75030062

	A	B	C	D	E
3052	TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION _GRANULOCYTE_UP	44	Down	0.484600321	0.75030062
3053	CHEOK_RESPONSE_TO_MERCAPTOPYRINE_DN	18	Up	0.485068746	0.75030062
3054	BIOCARTA_TID_PATHWAY	16	Up	0.485107369	0.75030062
3055	GAUSSMANN_MLL_AF4_FUSION_TARGETS_D_D N	8	Up	0.485122704	0.75030062
3056	REACTOME_CDT1_ASSOCIATION_WITH_THE_CDC 6_ORC_ORIGIN_COMPLEX	53	Down	0.4851903	0.75030062
3057	YAO_TEMPORAL_RESPONSE_TO_PROGESTERON E_CLUSTER_0	71	Up	0.485303848	0.75030062
3058	PID_REG_GR_PATHWAY	58	Up	0.485432592	0.75030062
3059	RICKMAN_TUMOR_DIFFERENTIATED_MODERATE LY_VS_POORLY_UP	105	Up	0.486257215	0.751329411
3060	BRUNEAU_SEPTATION_VENTRICULAR	5	Down	0.486496756	0.7514538
3061	NIKOLSKY_BREAST_CANCER_19P13_AMPLICON	5	Down	0.486773774	0.751635974
3062	BIOCARTA_THelper_PATHWAY	3	Up	0.487055614	0.751825474
3063	DAIRKEE_TERT_TARGETS_UP	349	Down	0.487428756	0.752155739
3064	FUNG_IL2_SIGNALING_2	4	Up	0.487794055	0.75247369
3065	REACTOME_ANTIGEN_PROCESSING_CROSS_PRES ENTATION	63	Up	0.488676078	0.753588273
3066	PID_IGF1_PATHWAY	29	Down	0.489454649	0.754170396
3067	PUJANA_BREAST_CANCER_WITH_BRCA1_MUTAT ED_DN	9	Down	0.489519048	0.754170396
3068	MOHANKUMAR_TLX1_TARGETS_UP	387	Up	0.489532403	0.754170396
3069	BIOCARTA_NOS1_PATHWAY	19	Down	0.490150999	0.754416834
3070	RAMJAUN_APOPTOSIS_BY_TGFB1_VIA_SMAD4_ UP	7	Up	0.490212005	0.754416834
3071	MEISSNER_BRAIN_HCP_WITH_H3K27ME3	114	Down	0.49024854	0.754416834
3072	PAL_PRMT5_TARGETS_UP	196	Down	0.490331026	0.754416834
3073	ZHONG_RESPONSE_TO_AZACITIDINE_AND_TSA_ UP	156	Up	0.490714727	0.754761421

	A	B	C	D	E
3074	KIM_BIPOLAR_DISORDER_OLIGODENDROCYTE_D ENSITY_CORR_UP	657	Up	0.490912709	0.754820225
3075	KEGG_TOLL_LIKE_RECEPTOR_SIGNALING_PATHW AY	61	Up	0.491168808	0.754968321
3076	STANELLE_E2F1_TARGETS	27	Up	0.491637555	0.755098698
3077	WOTTON_RUNX_TARGETS_UP	17	Up	4.92E-01	7.55E-01
3078	REACTOME_CHONDROITIN_SULFATE_DERMATAN _SULFATE_METABOLISM	44	Down	4.92E-01	7.55E-01
3079	EPPERT_CE_HSC_LSC	30	Up	0.492035327	0.755317388
3080	QI_PLASMACYTOMA_DN	87	Up	0.492234986	0.75537847
3081	REACTOME_GABA_B_RECEPTOR_ACTIVATION	29	Down	0.492714093	0.75586821
3082	WONG_IFNA2_RESISTANCE_DN	28	Down	0.49301177	0.756079394
3083	REACTOME_ACTIVATED_TAK1_MEDIATES_P38_M APK_ACTIVATION	16	Down	0.493266143	0.756224051
3084	FRASOR_RESPONSE_TO_SERM_OR_FULVESTРАН T_UP	22	Up	0.493609268	0.756261008
3085	NELSON_RESPONSE_TO_ANDROGEN_DN	17	Down	0.493794942	0.756261008
3086	WU_APOPTOSIS_BY_CDKN1A_NOT_VIA_TP53	11	Up	0.493888918	0.756261008
3087	SHEN_SMARCA2_TARGETS_UP	423	Up	0.494496208	0.756261008
3088	REACTOME_ORC1_REMOVAL_FROM_CHROMATI N	64	Down	0.494568562	0.756261008
3089	HOEGERKORP_CD44_TARGETS_TEMPORAL_UP	11	Down	0.494777893	0.756261008
3090	REACTOME_CHEMOKINE_RECEPTORS_BIND_CHE MOKINES	11	Up	0.49483337	0.756261008
3091	DEN_INTERACT_WITH_LCA5	26	Up	0.494918268	0.756261008
3092	PID_TCPTP_PATHWAY	39	Up	0.495344089	0.756261008
3093	KEGG_REGULATION_OF_AUTOPHAGY	19	Up	0.495405658	0.756261008
3094	CLIMENT_BREAST_CANCER_COPY_NUMBER_UP	20	Down	0.495549773	0.756261008
3095	REACTOME_PLATELET_SENSITIZATION_BY_LDL	14	Up	0.495719449	0.756261008
3096	REACTOME_PKB_MEDIATED_EVENTS	27	Up	0.495849802	0.756261008
3097	BIOCARTA_SET_PATHWAY	8	Down	0.49586101	0.756261008
3098	KEGG_DRUG_METABOLISM_OTHER_ENZYMES	20	Up	0.495923268	0.756261008

	A	B	C	D	E
3099	MOREIRA_RESPONSE_TO_TSA_UP	25	Down	0.496019072	0.756261008
3100	YAUCH_HEDGEHOG_SIGNALING_PARACRINE_DN	161	Up	0.496081088	0.756261008
3101	REACTOME_NUCLEOTIDE_EXCISION_REPAIR	46	Down	0.496295466	0.756261008
3102	KEEN_RESPONSE_TO_ROSIGLITAZONE_UP	35	Down	0.496500427	0.756261008
3103	REACTOME_ACTIVATION_OF_IRF3_IRF7_MEDIATED_BY_TBK1_IKK_EPSILON	9	Down	0.496551663	0.756261008
3104	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_30	4	Down	0.496651409	0.756261008
3105	BIOCARTA_NKT_PATHWAY	7	Up	0.497015257	0.756431808
3106	LUI_THYROID_CANCER_CLUSTER_3	27	Down	0.49708376	0.756431808
3107	GROSS_HYPOXIA_VIA_ELK3_UP	198	Down	0.497504071	0.756827668
3108	CREIGHTON_AKT1_SIGNALING_VIA_MTOR_DN	22	Up	0.497973606	0.757218303
3109	VANASSE_BCL2_TARGETS_UP	26	Up	0.498350232	0.757218303
3110	KESHELAVA_MULTIPLE_DRUG_RESISTANCE	70	Up	0.498388326	0.757218303
3111	DACOSTA_UV_RESPONSE_VIA_ERCC3_DN	828	Up	0.49843686	0.757218303
3112	MARTINEZ_RB1_AND_TP53_TARGETS_DN	488	Up	0.498689442	0.757218303
3113	VISALA_AGING_LYMPHOCYTE_UP	7	Up	0.498886615	0.757218303
3114	BIOCARTA_CCR3_PATHWAY	17	Up	0.499159389	0.757218303
3115	OSMAN_BLADDER_CANCER_UP	364	Up	0.499175433	0.757218303
3116	DORN_ADENOVIRUS_INFECTION_48HR_UP	13	Up	0.499203178	0.757218303
3117	NABA_MATRISOME_ASSOCIATED	336	Up	0.500034811	0.757953848
3118	CAIRO_PML_TARGETS_BOUND_BY_MYC_UP	23	Up	5.00E-01	7.58E-01
3119	BIOCARTA_CDMAC_PATHWAY	15	Up	5.00E-01	7.58E-01
3120	MCCABE_HOXC6_TARGETS_CANCER_UP	18	Down	0.500379626	0.757953848
3121	KALMA_E2F1_TARGETS	11	Down	0.500539273	0.757953848
3122	KAYO_AGING_MUSCLE_UP	173	Up	0.500650573	0.757953848
3123	PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_6	18	Up	0.500956791	0.757974405
3124	HOLLEMAN_DAUNORUBICIN_ALL_UP	5	Up	0.500984988	0.757974405
3125	GAUSSMANN_MLL_AF4_FUSION_TARGETS_F_UP	149	Up	0.501358228	0.758296295
3126	PID_ANGIOPOIETIN_RECEPTOR_PATHWAY	43	Up	0.50181632	0.758746275

	A	B	C	D	E
3127	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPH OLIPIDS_GREY_UP	17	Up	0.502152516	0.759011721
3128	PID_RXR_VDR_PATHWAY	21	Down	0.502647893	0.7593384
3129	HOOI_ST7_TARGETS_DN	101	Up	0.502690056	0.7593384
3130	REACTOME_TANDEM_PORE_DOMAIN_POTASSIU M_CHANNELS	4	Down	0.503183222	0.759840437
3131	ST_JNK_MAPK_PATHWAY	40	Up	0.503654402	0.760308961
3132	OUYANG_PROSTATE_CANCER_PROGRESSION_UP	17	Up	0.504017581	0.760614203
3133	TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION _SUSTAINED_IN_MONOCYTE_DN	4	Up	0.5045476	0.76100427
3134	LINDGREN_BLADDER_CANCER_CLUSTER_3_UP	310	Up	0.504598175	0.76100427
3135	SCIBETTA_KDM5B_TARGETS_UP	19	Up	0.50547041	0.762027114
3136	BROWNE_HCMV_INFECTION_6HR_DN	142	Up	0.505598942	0.762027114
3137	PID_AR_NONGENOMIC_PATHWAY	30	Down	0.506039114	0.762247839
3138	CHEOK_RESPONSE_TO_MERCAPTOPURINE_AND_ LD_MTX_DN	15	Up	0.506068036	0.762247839
3139	BAUS_TFF2_TARGETS_DN	7	Up	0.506617444	0.762513901
3140	PID_PDGFRA_PATHWAY	20	Up	0.50680304	0.762513901
3141	KEGG_NEUROTROPHIN_SIGNALING_PATHWAY	114	Up	0.506811642	0.762513901
3142	FERRANDO_T_ALL_WITH_MLL_ENL_FUSION_UP	68	Up	0.506890193	0.762513901
3143	WANG_NFKB_TARGETS	12	Down	0.507106093	0.762595891
3144	REACTOME_INWARDLY_RECTIFYING_K_CHANNEL S	20	Down	0.507292063	0.762632834
3145	BOYVAULT_LIVER_CANCER_SUBCLASS_G56_UP	10	Up	0.50799009	0.762726928
3146	BREDEMEYER_RAG_SIGNALING_NOT_VIA_ATM_ DN	48	Up	0.508004879	0.762726928
3147	VANOEVELEN_MYOGENESIS_SIN3A_TARGETS	211	Up	0.508078848	0.762726928
3148	REACTOME_KERATAN_SULFATE_BIOSYNTHESIS	19	Down	0.50814279	0.762726928
3149	ZHAN_V1_LATE_DIFFERENTIATION_GENES_UP	29	Up	0.508172009	0.762726928
3150	BURTON_ADIPOGENESIS_2	65	Up	0.508323195	0.762726928
3151	RIZ_ERYTHROID_DIFFERENTIATION_HBZ	26	Down	0.509227636	0.763841454

	A	B	C	D	E
3152	GOUYER_TATI_TARGETS_DN	16	Up	0.50979192	0.764445198
3153	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_7	6	Down	0.510366429	0.765063889
3154	SAKAI_CHRONIC_HEPATITIS_VS_LIVER_CANCER_DN	26	Up	0.51064926	0.765245085
3155	MOOTHA_ROS	7	Up	0.510970617	0.765483882
3156	SHIN_B_CELL_LYMPHOMA_CLUSTER_3	18	Up	0.511177854	0.76555162
3157	BIOCARTA_BAD_PATHWAY	20	Up	0.511552834	0.76587045
3158	HAN_JNK_SINGALING_UP	27	Up	0.511919725	0.766176971
3159	REACTOME_TAK1_ACTIVATES_NFKB_BY_PHOSPHORYLATION_AND_ACTIVATION_OF_IKKS_COMPLEX	19	Down	5.13E-01	7.67E-01
3160	MAGRANGEAS_MULTIPLE_MYELOMA_IGLL_VS_IGLL1_UP	33	Up	5.13E-01	7.68E-01
3161	GUTIERREZ_WALDENSTROEMS_MACROGLOBULINEMIA_1_UP	9	Up	0.513395033	0.76755721
3162	FLECHNER_PBL_KIDNEY_TRANSPLANT_REJECTED_VS_OK_DN	46	Down	0.513491712	0.76755721
3163	LY_AGING_OLD_UP	3	Down	0.514261221	0.768283072
3164	PID_FAS_PATHWAY	33	Up	0.514302509	0.768283072
3165	MEISSNER_NPC_HCP_WITH_H3K4ME2_AND_H3K27ME3	208	Down	0.515240894	0.769278134
3166	PID_LYSOPHOSPHOLIPID_PATHWAY	61	Up	0.515294242	0.769278134
3167	RAO_BOUND_BY_SALL4_ISOFORM_B	426	Up	0.515673234	0.769600768
3168	VALK_AML_WITH_CEBPA	24	Up	0.516085243	0.769972457
3169	TANAKA_METHYLATED_IN_ESOPHAGEAL_CARCINOMA	68	Up	0.516709221	0.770660059
3170	JACKSON_DNMT1_TARGETS_UP	68	Down	0.516911971	0.770719175
3171	REACTOME_TRANSPORT_TO_THE_GOLGI_AND_SUBSEQUENT_MODIFICATION	33	Down	0.517660678	0.771592021
3172	VALK_AML_CLUSTER_7	19	Down	0.517982071	0.771697034
3173	BIOCARTA_CXCR4_PATHWAY	22	Up	0.518113269	0.771697034
3174	BERENJENO_TRANSFORMED_BY_RHOA_UP	508	Down	0.518290206	0.771697034

	A	B	C	D	E
3175	REACTOME_PREFOLDIN_MEDIATED_TRANSFER_OF_SUBSTRATE_TO_CCT_TRIC	24	Down	0.518676145	0.771697034
3176	MCBRYAN_PUBERTAL_BREAST_6_7WK_UP	166	Up	0.51869733	0.771697034
3177	NIELSEN_SYNOVIAL_SARCOMA_DN	11	Up	0.518745078	0.771697034
3178	REACTOME_HOST_INTERACTIONS_OF_HIV_FACTORS	116	Down	0.519115836	0.771697034
3179	REACTOME_SEMA4D_IN_SEMAPHORIN_SIGNALING	28	Up	0.519210537	0.771697034
3180	VALK_AML_CLUSTER_6	29	Down	0.519293894	0.771697034
3181	WESTON_VEGFA_TARGETS_12HR	27	Up	0.519599015	0.771697034
3182	LI_WILMS_TUMOR	19	Down	0.519653365	0.771697034
3183	ZEMBUTSU_SENSITIVITY_TO_DOXORUBICIN	16	Down	0.519837101	0.771697034
3184	KEGG_CYTOSOLIC_DNA_SENSING_PATHWAY	28	Up	0.519989317	0.771697034
3185	BIOCARTA_CELLCYCLE_PATHWAY	21	Up	0.520017642	0.771697034
3186	CHIN_BREAST_CANCER_COPY_NUMBER_UP	21	Down	0.52047823	0.772138034
3187	BROWNE_HCMV_INFECTION_4HR_DN	213	Up	0.520789209	0.772306143
3188	REACTOME_TGF_BETA_RECEPTOR_SIGNALING_ACTIVATES_SMADS	24	Up	0.52091845	0.772306143
3189	ULE_SPLICING_VIA_NOVA2	39	Up	0.521344822	0.772627585
3190	CHEOK_RESPONSE_TO_HD_MTX_DN	24	Down	0.5214623	0.772627585
3191	YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_10	67	Down	0.521753713	0.77281702
3192	REACTOME_MTORC1_MEDIATED_SIGNALLING	11	Up	0.522127515	0.773128332
3193	SCHRAMM_INHBA_TARGETS_DN	19	Down	0.522512167	0.77345551
3194	REACTOME_TCR_SIGNALING	33	Down	0.522728738	0.773533758
3195	KEGG_ETHER_LIPID_METABOLISM	22	Up	0.523113545	0.773644156
3196	REACTOME_PLG_BETA_MEDIATED_EVENTS	37	Up	0.52313081	0.773644156
3197	JONES_TCOF1_TARGETS	5	Up	0.523501682	0.77395039
3198	KEGG_COLORECTAL_CANCER	57	Down	0.523814896	0.774129152
3199	SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_DN	118	Up	0.523950271	0.774129152
3200	ZHOU_INFLAMMATORY_RESPONSE_FIMA_UP	377	Up	5.24E-01	7.74E-01

	A	B	C	D	E
3201	REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_PROTEINS	9	Up	5.24E-01	7.74E-01
3202	REACTOME_ABC_FAMILY_PROTEINS_MEDIATED_TRANSPORT	18	Down	0.52476374	0.774604396
3203	CUI_TCF21_TARGETS_2_UP	377	Down	0.525083724	0.774834665
3204	REACTOME_ACTIVATED_NOTCH1_TRANSMITS_SIGNAL_TO_THE_NUCLEUS	24	Up	0.525966948	0.775895669
3205	ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_2HR	8	Down	0.527224921	0.777281421
3206	SOUCEK_MYC_TARGETS	3	Down	0.527235335	0.777281421
3207	BRUINS_UVC_RESPONSE_EARLY_LATE	291	Down	0.527698267	0.777721245
3208	PID_CDC42_PATHWAY	66	Up	0.527972353	0.77788256
3209	REACTOME_CREB_PHOSPHORYLATION_THROUGH_THE_ACTIVATION_OF_RAS	24	Down	0.528713939	0.778293995
3210	HAMAI_APOPTOSIS_VIA_TRAIL_UP	551	Up	0.528904679	0.778293995
3211	DACOSTA_UV_RESPONSE_VIA_ERCC3_XPCS_DN	82	Down	0.528912979	0.778293995
3212	PID_LKB1_PATHWAY	46	Down	0.529157609	0.778293995
3213	WU_HBX_TARGETS_1_UP	10	Up	0.529327527	0.778293995
3214	FIRESTEIN_CTNNB1_PATHWAY_AND_PROLIFERATION	9	Down	0.529780742	0.778293995
3215	BIOCARTA_GCR_PATHWAY	15	Up	0.529795455	0.778293995
3216	REACTOME_ROLE_OF_DCC_IN_REGULATING_APOPTOSIS	10	Down	0.529838998	0.778293995
3217	SHIN_B_CELL_LYMPHOMA_CLUSTER_6	4	Up	0.529896897	0.778293995
3218	BONOME_OVARIAN_CANCER_SURVIVAL_OPTIMAL_DEBULKING	208	Up	0.529959081	0.778293995
3219	REACTOME_A_TETRASACCHARIDE_LINKER_SEQUENCE_IS_REQUIRED_FOR_GAG_SYNTHESIS	23	Down	0.530075827	0.778293995
3220	BYSTRYKH_HEMATOPOIESIS_STEM_CELL_IL3RA	8	Down	0.530300785	0.778293995
3221	LIU_TARGETS_OF_VMYB_VS_CMYB_UP	13	Up	0.530508994	0.778293995
3222	LEE_AGING_NEOCORTEX_DN	59	Down	0.530557663	0.778293995
3223	THUM_MIR21_TARGETS_HEART_DISEASE_DN	7	Up	0.531022478	0.77873408

	A	B	C	D	E
3224	KARLSSON_TGFB1_TARGETS_DN	197	Up	0.531383885	0.779022294
3225	BYSTRYKH_HEMATOPOIESIS_STEM_CELL_AND_BRAIN_QTL_CIS	60	Down	0.531727482	0.779284228
3226	LU_TUMOR_ENDOTHELIAL_MARKERS_UP	18	Down	0.532042643	0.779504337
3227	NGO_MALIGNANT_GLIOMA_1P_LOH	16	Down	0.532612599	0.780097499
3228	REACTOME_ANTIGEN_PROCESSING_UBIQUITINATION_PROTEASOME_DEGRADATION	186	Down	0.533311893	0.78087967
3229	LASTOWSKA_NEUROBLASTOMA_COPY_NUMBER_DN	770	Down	0.534677914	0.782504647
3230	TURJANSKI_MAPK11_TARGETS	5	Up	0.534752911	0.782504647
3231	REACTOME_RNA_POL_I_TRANSCRIPTION_INITIATION	22	Down	0.53526848	0.783016585
3232	TUOMISTO_TUMOR_SUPPRESSION_BY_COL13A1_UP	10	Up	0.536052374	0.783920603
3233	REACTOME_ADVANCED_GLYCOSYLATION_ENDPRODUCTION_RECEPTOR_SIGNALING	10	Up	0.537152943	0.785287022
3234	REACTOME_RESPIRATORY_ELECTRON_TRANSPORT_ATP_SYNTHESIS_BY_CHEMIOSMOTIC_COUPLING_AND_HEAT_PRODUCTION_BY_UNCOUPLING_PROTEINS	90	Down	0.537331368	0.785304891
3235	NEBEN_AML_WITH_FLT3_OR_NRAS_UP	5	Down	0.538023701	0.78590116
3236	SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX1_DN	9	Up	0.538072011	0.78590116
3237	BIOCARTA_TOB1_PATHWAY	8	Down	0.539911877	0.788190976
3238	MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_UP	71	Up	0.539973373	0.788190976
3239	RIZ_ERYTHROID_DIFFERENTIATION_12HR	31	Up	0.540338267	0.788480023
3240	VANDESLUIS_NORMAL_EMBRYOS_UP	1	Down	0.541125477	0.789005383
3241	KUMAMOTO_RESPONSE_TO_NUTLIN_3A_UP	9	Up	5.41E-01	7.89E-01
3242	BIOCARTA_RAS_PATHWAY	22	Down	5.41E-01	7.89E-01
3243	BREDEMEYER_RAG_SIGNALING_VIA_ATM_NOT_VIA_NFKB_DN	36	Up	0.541366233	0.789005383

	A	B	C	D	E
3244	PID_ENDOTHELIN_PATHWAY	54	Up	0.541608922	0.789008681
3245	MA_MYELOID_DIFFERENTIATION_DN	31	Up	0.541702468	0.789008681
3246	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_15	10	Up	0.541985047	0.789142641
3247	CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_4	273	Up	0.542148244	0.789142641
3248	LOPEZ_MESOTHELIOMA_SURVIVAL_DN	12	Down	0.542471338	0.789142641
3249	STAMBOLSKY_RESPONSE_TO_VITAMIN_D3_DN	19	Down	0.54255909	0.789142641
3250	KEGG_GLYOXYLATE_AND_DICARBOXYLATE_METABOLISM	14	Up	0.542651037	0.789142641
3251	SANCHEZ_MDM2_TARGETS	10	Down	0.542796526	0.789142641
3252	SMIRNOV_RESPONSE_TO_IR_6HR_UP	157	Up	0.543016193	0.789219167
3253	RODWELL_AGING_KIDNEY_NO_BLOOD_DN	139	Up	0.544053577	0.789329217
3254	DOANE_BREAST_CANCER_CLASSES_UP	45	Up	0.544251937	0.789329217
3255	BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP	765	Up	0.544261159	0.789329217
3256	SHARMA_ASTROCYTOMA_WITH_NF1_SYNDROME	3	Down	0.544273837	0.789329217
3257	CHEBOTAEV_GR_TARGETS_DN	94	Down	0.544280326	0.789329217
3258	BENPORATH_ES_CORE_NINE	8	Up	0.544332779	0.789329217
3259	HOFFMANN_PRE_BI_TO_LARGE_PRE_BII_LYMPHOCYTE_UP	31	Up	0.544539531	0.789329217
3260	PID_INSULIN_GLUKOSE_PATHWAY	23	Down	0.544863324	0.789329217
3261	HAEGERSTRAND_RESPONSE_TO_IMATINIB	6	Up	0.544949343	0.789329217
3262	REACTOME_ASSOCIATION_OF_LICENSEING_FACTORS_WITH_THE_PRE_REPLICATIVE_COMPLEX	13	Down	0.54499226	0.789329217
3263	KYNG_ENVIRONMENTAL_STRESS_RESPONSE_NOT_BY_GAMMA_IN_WS	30	Up	0.54504558	0.789329217
3264	REACTOME_SIGNALING_BY_NOTCH2	11	Up	0.545215166	0.789329217
3265	ST_PHOSPHOINOSITIDE_3_KINASE_PATHWAY	31	Up	0.545263611	0.789329217
3266	SASAKI_ADULT_T_CELL_LEUKEMIA	160	Down	0.546099396	0.79010017
3267	KOBAYASHI_EGFR_SIGNALING_24HR_DN	244	Down	0.546130615	0.79010017
3268	BIOCARTA_BCR_PATHWAY	31	Up	0.546591915	0.790460722

	A	B	C	D	E
3269	NIKOLSKY_BREAST_CANCER_1Q21_AMPLICON	30	Up	0.546714421	0.790460722
3270	LIN_MELANOMA_COPY_NUMBER_UP	65	Down	0.547222332	0.79095305
3271	BLALOCK_ALZHEIMERS_DISEASE_UP	1464	Up	0.548011171	0.791179631
3272	BILD_MYC_ONCOGENIC_SIGNATURE	194	Down	0.548139758	0.791179631
3273	REACTOME_GABA_A_RECEPTOR_ACTIVATION	8	Up	0.548146891	0.791179631
3274	REACTOME_INTERFERON_ALPHA_BETA_SIGNALING	41	Up	0.548152377	0.791179631
3275	REACTOME_ACTIVATION_OF_THE_PRE_REPLICATIVE_COMPLEX	29	Up	0.548308699	0.791179631
3276	MATZUK_SPERMATOGONIA	14	Up	0.548388045	0.791179631
3277	KYNG_NORMAL_AGING_UP	17	Down	0.548551211	0.791179631
3278	REACTOME_OLFACTORY_SIGNALING_PATHWAY	2	Down	0.549504825	0.792313182
3279	MANN_RESPONSE_TO_AMIFOSTINE_UP	19	Down	0.550096859	0.792622907
3280	BIOCARTA_EP44_PATHWAY	9	Up	0.55064704	0.792622907
3281	MEISSNER_NPC_HCP_WITH_H3K4ME3_AND_H3K27ME3	109	Up	0.550748013	0.792622907
3282	JIANG_CORE_DUPLICON_GENES	6	Down	5.51E-01	7.93E-01
3283	SYED ESTRADIOL_RESPONSE	17	Down	5.51E-01	7.93E-01
3284	REACTOME_MITOCHONDRIAL_FATTY_ACID_BETA_OXIDATION	13	Up	0.551096997	0.792622907
3285	REACTOME_GPCR_LIGAND_BINDING	142	Up	0.551705522	0.792622907
3286	GARCIA_TARGETS_OF_FLI1_AND_DAX1_DN	159	Up	0.551755698	0.792622907
3287	REACTOME_LIGAND_GATED_ION_CHANNEL_TRANSPORT	10	Up	0.551834502	0.792622907
3288	YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_1	57	Down	0.551834834	0.792622907
3289	WANG_LMO4_TARGETS_DN	328	Down	0.552078612	0.792622907
3290	HU_GENOTOXIN_ACTION_DIRECT_VS_INDIRECT_4HR	30	Down	0.552118381	0.792622907
3291	BIOCARTA_IL2_PATHWAY	19	Up	0.552127182	0.792622907
3292	SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM5	63	Down	0.552340485	0.792622907
3293	AMUNDSON_DNA_DAMAGE_RESPONSE_TP53	16	Down	0.55234423	0.792622907

	A	B	C	D	E
3294	SASAI_TARGETS_OF_CXCR6_AND_PTCH1_DN	6	Down	0.552403647	0.792622907
3295	RUAN_RESPONSE_TO_TROGLITAZONE_UP	22	Up	0.553532605	0.793898616
3296	KEGG_DNA_REPLICATION	35	Up	0.553745614	0.793898616
3297	REACTOME_IL_2_SIGNALING	31	Down	0.553796791	0.793898616
3298	KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUM BER_CORR_UP	719	Up	0.554127061	0.794131138
3299	LOPEZ_MESOTELIOMA_SURVIVAL_TIME_DN	4	Up	0.554334933	0.794188162
3300	DANG_REGULATED_BY_MYC_UP	68	Up	0.554940218	0.794608829
3301	LEE_CALORIE_RESTRICTION_NEOCORTEX_DN	72	Up	0.554964896	0.794608829
3302	SCHAEFFER_PROSTATE_DEVELOPMENT_12HR_UP	99	Down	0.555195657	0.794698419
3303	GILMORE_CORE_NFKB_PATHWAY	14	Up	0.555776136	0.795288384
3304	SHEDDEN_LUNG_CANCER_GOOD_SURVIVAL_A12	202	Up	0.556137729	0.795564871
3305	TESAR_ALK_TARGETS_HUMAN_ES_5D_UP	1	Down	0.55658441	0.795962875
3306	WEST_ADRENOCORTICAL_TUMOR_DN	435	Up	0.556830538	0.796069005
3307	OKAWA_NEUROBLASTOMA_1P36_31_DELETION	21	Down	0.557133299	0.796069005
3308	WAMUNYOKOLI_OVARIAN_CANCER_GRADES_1_2_DN	56	Up	0.557164063	0.796069005
3309	KAUFFMANN_MELANOMA_RELAPSE_UP	60	Down	0.557618766	0.796477832
3310	PALOMERO_GSI_SENSITIVITY_DN	4	Down	0.558111481	0.796940692
3311	REACTOME_HOMOLOGOUS_RECOMBINATION_R EPAIR_OF_REPLICATION_INDEPENDENT_DOUBLE _STRAND_BREAKS	16	Up	0.55835004	0.797019879
3312	DARWICHE_PAPILLOMA_RISK_HIGH_UP	114	Down	0.5585043	0.797019879
3313	ZHAN_VARIABLE_EARLY_DIFFERENTIATION_GEN ES_UP	8	Down	0.559201065	0.797773259
3314	LIM_MAMMARY_LUMINAL_PROGENITOR_UP	30	Up	0.55970946	0.79825753
3315	MORI_MATURE_B_LYMPHOCYTE_DN	68	Down	0.560362537	0.798947793
3316	RASHI_RESPONSE_TO_IONIZING_RADIATION_4	50	Up	0.560748706	0.799257205
3317	ONO_AML1_TARGETS_DN	19	Up	0.561623393	0.799683618

	A	B	C	D	E
3318	SCHEIDEREIT_IKK_INTERACTING_PROTEINS	55	Up	0.561636739	0.799683618
3319	OUELLET_OVARIAN_CANCER_INVASIVE_VS_LMP_DN	10	Down	0.561843315	0.799683618
3320	REACTOME_REGULATION_OF_HYPOXIA_INDUCIBLE_FACTOR_HIF_BY_OXYGEN	22	Up	0.561884092	0.799683618
3321	WU_HBX_TARGETS_3_DN	11	Down	0.561894098	0.799683618
3322	CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_UP	340	Down	0.562228853	0.7999191
3323	BAFNA_MUC4_TARGETS_DN	4	Up	5.63E-01	8.00E-01
3324	WATANABE_ULCERATIVE_COLITIS_WITH_CANCER_UP	18	Up	5.63E-01	8.01E-01
3325	BRACHAT_RESPONSE_TO_METHOTREXATE_UP	25	Down	0.563633645	0.801097004
3326	FERRANDO_LYL1_NEIGHBORS	11	Up	0.563848254	0.801097004
3327	ABDULRAHMAN_KIDNEY_CANCER_VHL_UP	5	Down	0.564188679	0.801097004
3328	BIOCARTA_RB_PATHWAY	13	Down	0.564208285	0.801097004
3329	BIOCARTA_P35ALZHEIMERS_PATHWAY	10	Up	0.564573694	0.801097004
3330	REACTOME_GLUCOSE_TRANSPORT	33	Down	0.56473705	0.801097004
3331	BIOCARTA_MAL_PATHWAY	17	Up	0.564760231	0.801097004
3332	REACTOME_REMOVAL_OF_THE_FLAP_INTERMEDIATE_FROM_THE_C_STRAND	10	Down	0.564908112	0.801097004
3333	LIEN_BREAST_CARCINOMA_METAPLASTIC	27	Up	0.565027819	0.801097004
3334	LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_LARGE_VS_TINY_UP	37	Down	0.565091284	0.801097004
3335	WNT_SIGNALING	71	Down	0.565831647	0.8011726
3336	NABA_BASEMENT_MEMBRANES	31	Up	0.566012202	0.8011726
3337	GOBERT_CORE_OLIGODENDROCYTE_DIFFERENTIATION	37	Up	0.566153713	0.8011726
3338	REACTOME_SYNTHESIS_OF_GLYCOSYLPHOSPHATIDYLINOSITOL_GPI	17	Down	0.566434581	0.8011726
3339	ZHU_SKIL_TARGETS_DN	8	Down	0.566542996	0.8011726
3340	MARTENS_BOUND_BY_PML_RARA_FUSION	392	Up	0.56654877	0.8011726

	A	B	C	D	E
3341	SMID_BREAST_CANCER_RELAPSE_IN_BRAIN_DN	67	Up	0.566558012	0.8011726
3342	PID_THROMBIN_PAR1_PATHWAY	39	Up	0.566591915	0.8011726
3343	REACTOME_VIF_MEDIATED_DEGRADATION_OF_APOBEC3G	48	Down	0.566945576	0.8011726
3344	MIKHAYLOVA_OXIDATIVE_STRESS_RESPONSE_VIA_VHL_DN	6	Down	0.567008265	0.8011726
3345	REACTOME_DAG_AND_IP3_SIGNALING	28	Up	0.567060029	0.8011726
3346	ROZANOV_MMP14_TARGETS_DN	29	Up	0.567179333	0.8011726
3347	MCDOWELL_ACUTE_LUNG_INJURY_DN	38	Up	0.567810123	0.801778372
3348	LEE_METASTASIS_AND_ALTERNATIVE_SPLICING_UP	61	Up	0.568009511	0.801778372
3349	ST_GA13_PATHWAY	32	Up	0.568135527	0.801778372
3350	REACTOME_DOWNREGULATION_OF_TGF_BETA_RECEPTOR_SIGNALING	21	Up	0.568335167	0.801778372
3351	REACTOME_FORMATION_OF_TUBULIN_FOLDING_INTERMEDIATES_BY_CCT_TRIC	18	Down	0.568456623	0.801778372
3352	CHANGOLKAR_H2AFY_TARGETS_DN	32	Up	0.569010308	0.802311629
3353	BIOCARTA_RELA_PATHWAY	14	Up	0.569174303	0.802311629
3354	VANTVEER_BREAST_CANCER_BRCA1_UP	29	Up	0.569682515	0.802668662
3355	MATZUK_EARLY_ANTRAL_FOLLICLE	11	Up	0.569837137	0.802668662
3356	LABBE_WNT3A_TARGETS_DN	61	Up	0.569937219	0.802668662
3357	KEGG_PROXIMAL_TUBULE_BICARBONATE_RECLAMATION	17	Up	0.570281667	0.802914444
3358	DOANE_BREAST_CANCER_CLASSES_DN	31	Up	0.570855275	0.802993446
3359	PID_IL2_PI3K_PATHWAY	31	Down	0.570867949	0.802993446
3360	IKEDA_MIR1_TARGETS_UP	52	Up	0.570988799	0.802993446
3361	WEBER_METHYLATED_LCP_IN_SPERM_UP	1	Up	0.571216696	0.802993446
3362	HUNSBERGER_EXERCISE_REGULATED_GENES	22	Up	0.571220049	0.802993446
3363	HOEGERKORP_CD44_TARGETS_DIRECT_DN	9	Up	0.571357453	0.802993446
3364	BROWNE_HCMV_INFECTION_1HR_UP	44	Down	5.72E-01	8.03E-01

	A	B	C	D	E
3365	REACTOME_REGULATION_OF_GLUKOKINASE_BY_GLUKOKINASE_REGULATORY_PROTEIN	26	Down	5.72E-01	8.03E-01
3366	LOPEZ_MESOTHELIOMA_SURVIVAL_OVERALL_DN	14	Up	0.572011441	0.803195857
3367	NAKAMURA_CANCER_MICROENVIRONMENT_UP	14	Up	0.57253349	0.80369006
3368	SCHLOSSER_MYC_TARGETS_AND_SERUM_RESPONSE_UP	47	Up	0.573283214	0.804302715
3369	REACTOME_RNA_POL_III_TRANSCRIPTION_TERMINATION	18	Down	0.57331038	0.804302715
3370	NAKAMURA_METASTASIS_MODEL_DN	38	Up	0.573518667	0.8043561
3371	BIOCARTA_FCER1_PATHWAY	34	Up	0.574421934	0.804941205
3372	SEMENZA_HIF1_TARGETS	31	Up	0.574422298	0.804941205
3373	BIOCARTA_IL3_PATHWAY	12	Up	0.57444693	0.804941205
3374	KRISHNAN_FURIN_TARGETS_DN	11	Up	0.574661783	0.805003535
3375	PARK_OSTEOBLAST_DIFFERENTIATION_BY_PHENYLAMIN_DN	5	Down	0.575217093	0.805179295
3376	PID_TCR_PATHWAY	49	Up	0.575527004	0.805179295
3377	CROONQUIST_STROMAL_STIMULATION_UP	47	Up	0.575817072	0.805179295
3378	KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION	20	Up	0.575992963	0.805179295
3379	REACTOME_ROLE_OF_SECOND_MESSENGERS_IN_NETRIN1_SIGNALING	7	Down	0.576028809	0.805179295
3380	TCGA_GLIOMASTOMA_COPY_NUMBER_DN	26	Down	0.57609832	0.805179295
3381	KEGG_FRUCTOSE_AND_MANNANOSE_METABOLISM	29	Down	0.576105821	0.805179295
3382	VANTVEER_BREAST_CANCER_METASTASIS_DN	116	Down	0.576184776	0.805179295
3383	ZHAN_MULTIPLE_MYELOMA_UP	60	Down	0.576320926	0.805179295
3384	BROWNE_HCMV_INFECTION_14HR_DN	252	Up	0.576581376	0.805305055
3385	SILIGAN_TARGETS_OF_EWS_FLI1_FUSION_DN	17	Up	0.577651603	0.806561414
3386	MIKKELSEN_IPS_HCP_WITH_H3_UNMETHYLATED	34	Up	0.578118893	0.806975411

	A	B	C	D	E
3387	CHUNG_BLISTER_CYTOTOXICITY_DN	35	Up	0.578423923	0.807048139
3388	PID_P75_NTR_PATHWAY	61	Up	0.578798126	0.807048139
3389	BOYAUULT_LIVER_CANCER_SUBCLASS_G2	25	Up	0.579226338	0.807048139
3390	WHITFIELD_CELL_CYCLE_M_G1	140	Down	0.579345502	0.807048139
3391	REACTOME_POL_SWITCHING	13	Up	0.579397684	0.807048139
3392	KOINUMA_COLON_CANCER_MSI_DN	8	Up	0.579405881	0.807048139
3393	POS_RESPONSE_TO_HISTAMINE_UP	12	Up	0.579618201	0.807048139
3394	TSENG_ADIPOGENIC_POTENTIAL_DN	34	Up	0.579639938	0.807048139
3395	REACTOME_INTRINSIC_PATHWAY	7	Down	0.579918872	0.807048139
3396	REACTOME_SIGNALING_BY_ACTIVATED_POINT_MUTANTS_OF_FGFR1	4	Down	0.580006745	0.807048139
3397	BHATTACHARYA_EMBRYONIC_STEM_CELL	87	Down	0.580049837	0.807048139
3398	REACTOME_MITOTIC_G1_G1_S_PHASES	127	Up	0.580276193	0.807125409
3399	FUNG_IL2_TARGETS_WITH_STAT5_BINDING_SITES	5	Up	0.58056885	0.807294825
3400	XU_GH1_EXOGENOUS_TARGETS_UP	51	Up	0.580880521	0.807490574
3401	DISTECHE_ESCAPED_FROM_X_INACTIVATION	13	Up	0.58265217	0.809108995
3402	REACTOME_N_GLYCAN_ANTENNAE_ELONGATION	14	Down	0.583189865	0.809108995
3403	KEGG_HEMATOPOIETIC_CELL_LINEAGE	34	Up	0.583236175	0.809108995
3404	MAYBURD_RESPONSE_TO_L663536_DN	53	Down	0.583524107	0.809108995
3405	ST_JAK_STAT_PATHWAY	8	Up	5.84E-01	8.09E-01
3406	SMID_BREAST_CANCER_LUMINAL_A_UP	47	Up	5.84E-01	8.09E-01
3407	ZHENG_IL22_SIGNALING_DN	27	Up	0.583709572	0.809108995
3408	NIKOLSKY_BREAST_CANCER_20P13_AMPLICON	5	Down	0.583761112	0.809108995
3409	ACEVEDO_NORMAL_TISSUE_ADJACENT_TO_LIVER_TUMOR_UP	144	Up	0.583770427	0.809108995
3410	NOUSHMEHR_GBM_GERMLINE_MUTATED	3	Down	0.583862051	0.809108995
3411	NIKOLSKY_BREAST_CANCER_7P22_AMPLICON	33	Down	0.583928397	0.809108995
3412	HAHTOLA_MYCOSIS_FUNGOIDES_SKIN_UP	160	Down	0.584387464	0.8093236
3413	PID_AR_PATHWAY	55	Down	0.584487508	0.8093236
3414	YIH_RESPONSE_TO_ARSENITE_C5	7	Down	0.584760237	0.8093236

	A	B	C	D	E
3415	OUELLET_OVARIAN_CANCER_INVASIVE_VS_LMP_UP	111	Up	0.584809839	0.8093236
3416	REACTOME_AKT_PHOSPHORYLATES_TARGETS_IN_THE_CYTOSOL	12	Down	0.585225993	0.8093236
3417	AMIT_SERUM_RESPONSE_20_MCF10A	17	Up	0.58533169	0.8093236
3418	MIKKELSEN_ES_ICP_WITH_H3K4ME3	548	Up	0.585439865	0.8093236
3419	DAZARD_RESPONSE_TO_UV_SCC_DN	115	Up	0.585453558	0.8093236
3420	PID_SHP2_PATHWAY	49	Up	0.586003151	0.809691546
3421	PEREZ_TP53_TARGETS	956	Up	0.586142492	0.809691546
3422	BIOCARTA_NKCELLS_PATHWAY	13	Up	0.58627714	0.809691546
3423	RIZKI_TUMOR_INVASIVENESS_2D_DN	56	Down	0.586405179	0.809691546
3424	HEDENFALK_BREAST_CANCER_HEREDITARY_VS_SPORADIC	50	Up	0.586759266	0.809943773
3425	SUZUKI_AMPLIFIED_IN_ORAL_CANCER	10	Up	0.587001242	0.809958021
3426	WANG_LMO4_TARGETS_UP	338	Up	0.587112428	0.809958021
3427	REACTOME_IL1_SIGNALING	34	Up	0.587805416	0.810677347
3428	KAYO_AGING_MUSCLE_DN	107	Up	0.588642768	0.811595296
3429	WINTER_HYPOXIA_UP	88	Up	0.58914144	0.812045889
3430	HOLLEMAN_ASPARAGINASE_RESISTANCE_B_ALL_UP	24	Down	0.589389385	0.812150727
3431	REACTOME_EGFR_DOWNREGULATION	24	Up	0.589684441	0.812320404
3432	BIOCARTA_TGFB_PATHWAY	17	Down	0.590537757	0.813258787
3433	FIGUEROA_AML_METHYLATION_CLUSTER_3_DN	30	Up	0.5914856	0.814326766
3434	MCCLUNG_COCAINE_REWARD_5D	71	Down	0.592128154	0.814731951
3435	PID_RAS_PATHWAY	27	Down	0.592235016	0.814731951
3436	VALK_AML_CLUSTER_10	27	Down	0.592297196	0.814731951
3437	RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATELY_UP	101	Up	0.592576556	0.814878995
3438	BIOCARTA_IL5_PATHWAY	3	Down	0.594776871	0.817518808
3439	VISALA_RESPONSE_TO_HEAT_SHOCK_AND_AGING_DN	13	Down	0.594905386	0.817518808

	A	B	C	D	E
3440	BIOCARTA_PTDINS_PATHWAY	22	Down	0.595015276	0.817518808
3441	REACTOME_REGULATION_OF_INSULIN_SECRETION_BY_ACETYLCHOLINE	9	Up	0.595321578	0.817701876
3442	SHIRAISHI_PLZF_TARGETS_DN	7	Up	0.595496559	0.817704517
3443	KEGG_ARGININE_AND_PROLINE_METABOLISM	45	Up	0.595760325	0.817829034
3444	KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_KE RATAN_SULFATE	15	Down	0.596048901	0.817962025
3445	REACTOME_SCFSKP2_MEDIATED_DEGRADATION OF_P27_P21	53	Down	0.596203431	0.817962025
3446	PETRETTO_BLOOD_PRESSURE_UP	9	Down	5.97E-01	8.19E-01
3447	MARSHALL_VIRAL_INFECTION_RESPONSE_DN	21	Down	5.97E-01	8.19E-01
3448	GHO_ATF5_TARGETS_DN	16	Up	0.597336279	0.818802994
3449	REACTOME_INTERFERON_SIGNALING	115	Up	0.599275623	0.82119842
3450	KEGG_PARKINSONS_DISEASE	114	Down	0.599431397	0.82119842
3451	COURTOIS_SENESCENCE_TRIGGERS	6	Down	0.600162123	0.821961169
3452	IKEDA_MIR133_TARGETS_UP	42	Up	0.600423349	0.82208065
3453	NAGY_PCAF_COMPONENTS_HUMAN	9	Up	0.600658413	0.822164253
3454	REACTOME_NETRIN1_SIGNALING	36	Down	0.600899411	0.822226361
3455	REACTOME_SIGNALING_BY_FGFR	93	Down	0.601415977	0.822226361
3456	GEORGANTAS_HSC_MARKERS	40	Up	0.601494892	0.822226361
3457	PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL UP	174	Up	0.601687226	0.822226361
3458	ICHIBA_GRAFT_VERSUS_HOST_DISEASE_D7_UP	70	Up	0.601855852	0.822226361
3459	CARD_MIR302A_TARGETS	69	Down	0.602035784	0.822226361
3460	KYNG_DNA_DAMAGE_BY_4NQO	32	Up	0.602249175	0.822226361
3461	RIZ_ERYTHROID_DIFFERENTIATION_6HR	20	Up	0.60226975	0.822226361
3462	FLOTHO_PEDIATRIC_ALL_THERAPY_RESPONSE_U P	46	Up	0.602269933	0.822226361
3463	MCBRYAN_TERMINAL_END_BUD_DN	6	Up	0.60251968	0.822322601
3464	MULLIGHAN_NPM1_MUTATED_SIGNATURE_2_D N	66	Down	0.602688501	0.822322601
3465	PID_CDC42_REG_PATHWAY	30	Down	0.60343735	0.823106663

	A	B	C	D	E
3466	REACTOME_PASSIVE_TRANSPORT_BY_AQUAPORINS	3	Down	0.603647741	0.823156011
3467	STEGER_ADIPOGENESIS_UP	10	Up	0.604016792	0.823382854
3468	JAZAG_TGFB1_SIGNALING_UP	85	Up	0.604162615	0.823382854
3469	WU_SILENCED_BY_METHYLATION_IN_BLADDER_CANCER	36	Up	0.604498062	0.823602463
3470	REACTOME_JNK_C_JUN_KINASES_PHOSPHORYLATION_AND_ACTIVATION_MEDIATED_BY_ACTIVATED_HUMAN_TAK1	15	Down	0.604912382	0.823701246
3471	KIM_ALL_DISORDERS_DURATION_CORR_DN	136	Down	0.604919222	0.823701246
3472	CONRAD_GERMLINE_STEM_CELL	7	Down	0.605129062	0.823749587
3473	CUI_TCF21_TARGETS_UP	26	Down	0.605484759	0.823996396
3474	XU_CREBBP_TARGETS_UP	23	Up	0.605686227	0.824033234
3475	PARK_APL_PATHOGENESIS_UP	11	Up	0.606130071	0.824399708
3476	IIZUKA_LIVER_CANCER_EARLY_RECURRENCE	10	Up	0.606943789	0.825121722
3477	SHEPARD_BMYB_MORPHOLINO_DN	154	Down	0.607133943	0.825121722
3478	HOLLEMAN_ASPARAGINASE_RESISTANCE_B_ALL_DN	14	Down	0.60725116	0.825121722
3479	ZHANG_GATA6_TARGETS_UP	11	Up	0.607359439	0.825121722
3480	REACTOME_PYRIMIDINE_METABOLISM	18	Up	0.607671289	0.825308088
3481	MIKKELSEN_IPS_ICP_WITH_H3K4ME3_AND_H327ME3	67	Down	0.608369251	0.826018595
3482	STREICHER_LSM1_TARGETS_UP	37	Down	0.608546511	0.826021909
3483	EINAV_INTERFERON_SIGNATURE_IN_CANCER	20	Down	0.608908881	0.826274676
3484	KYNG_WERNER_SYNDROM_AND_NORMAL_AGING_UP	82	Up	0.609082476	0.826274676
3485	LIU_NASOPHARYNGEAL_CARCINOMA	60	Up	0.609433497	0.826513568
3486	RADAEVA_RESPONSE_TO_IFNA1_DN	10	Down	0.609979268	0.827016367
3487	REACTOME_TRAF6_MEDIATED_IRF7_ACTIVATION	17	Down	6.10E-01	8.27E-01
3488	GRANDVAUX_IFN_RESPONSE_NOT_VIA_IRF3	12	Up	6.11E-01	8.28E-01

	A	B	C	D	E
3489	CHIANG_LIVER_CANCER_SUBCLASS_UNANNOTATED_UP	67	Up	0.612095848	0.828735975
3490	PID_DELTA_NP63_PATHWAY	36	Up	0.612150638	0.828735975
3491	MARKS_ACETYLATED_NON_HISTONE_PROTEINS	12	Down	0.612309855	0.828735975
3492	REACTOME_REPAIR_SYNTHESIS_FOR_GAP_FILLING_BY_DNA_POL_IN_TC_NER	14	Up	0.612502072	0.828735975
3493	PID_HEDGEHOG_GLI_PATHWAY	46	Down	0.612558927	0.828735975
3494	HOFFMANN_IMMATURE_TO_MATURE_B_LYMPHOCYTE_DN	38	Up	0.612650743	0.828735975
3495	ZHENG_GLIOMASTOMA_PLASTICITY_UP	230	Up	0.613490594	0.829248125
3496	KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_HEPARAN_SULFATE	23	Down	0.613806367	0.829248125
3497	REACTOME_AQUAPORIN_MEDIATED_TRANSPORT	34	Up	0.614017273	0.829248125
3498	BONOME_OVARIAN_CANCER_POOR_SURVIVAL_DN	21	Up	0.614032775	0.829248125
3499	REACTOME_RECYCLING_PATHWAY_OF_L1	27	Up	0.614042397	0.829248125
3500	STAMBOLSKY_RESPONSE_TO_VITAMIN_D3_UP	68	Down	0.614082368	0.829248125
3501	PID_RHODOPSIN_PATHWAY	11	Up	0.614632283	0.829744157
3502	VILIMAS_NOTCH1_TARGETS_DN	4	Up	0.614816179	0.829744157
3503	MACLACHLAN_BRCA1_TARGETS_UP	20	Up	0.614976516	0.829744157
3504	ZHANG_BREAST_CANCER_PROGENITORS_DN	130	Up	0.615709942	0.830496567
3505	BIOCARTA_BARRESTIN_SRC_PATHWAY	14	Down	0.616806612	0.831738369
3506	REACTOME_N_GLYCAN_ANTENNAE_ELONGATION_IN_THE_MEDIAL_TRANS_GOLGI	18	Down	0.617152689	0.831967604
3507	BIOCARTA_SHH_PATHWAY	14	Up	0.617332822	0.831973071
3508	HELLER_HDAC_TARGETS_UP	285	Up	0.617513181	0.831978837
3509	IVANOVA_HEMATOPOIESIS_STEM_CELL_LONG_TERM	248	Up	0.61797588	0.832321382
3510	VANHARANTA_UTERINE_FIBROID_WITH_7Q_DELETION_UP	66	Up	0.61835031	0.832321382
3511	DELACROIX_RAR_BOUND_ESTIMATES	388	Down	0.618403238	0.832321382

	A	B	C	D	E
3512	PROVENZANI_METASTASIS_UP	179	Up	0.618472037	0.832321382
3513	PID_ERBB1_DOWNSTREAM_PATHWAY	103	Up	0.618920098	0.832687205
3514	BOSCO_TH1_CYTOTOXIC_MODULE	55	Up	0.619248362	0.832891691
3515	GALLUZZI_PERMEABILIZE_MITOCHONDRIA	39	Up	0.619735151	0.833309217
3516	DING_LUNG_CANCER_MUTATED_FREQUENTLY	10	Down	0.620798022	0.834290806
3517	REACTOME_NEP_NS2_INTERACTS_WITH_THE_CELLULAR_EXPORT_MACHINERY	27	Down	0.620818301	0.834290806
3518	REACTOME_RIG_I_MDA5_MEDIATED_INDUCITION_OF_IFN_ALPHA_BETA_PATHWAYS	55	Up	0.622263121	0.834674527
3519	MCGOWAN_RSP6_TARGETS_DN	5	Up	0.622357076	0.834674527
3520	REACTOME_G2_M_DNA_DAMAGE_CHECKPOINT	8	Down	0.622675451	0.834674527
3521	BRACHAT_RESPONSE_TO_METHOTREXATE_DN	25	Up	0.622962517	0.834674527
3522	LI_LUNG_CANCER	33	Down	0.623137391	0.834674527
3523	LIU_LIVER_CANCER	28	Up	0.623268578	0.834674527
3524	REACTOME_G_ALPHA_Q_SIGNALLING_EVENTS	85	Down	0.623529718	0.834674527
3525	TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_MONOCYTE_DN	38	Up	0.623781324	0.834674527
3526	REACTOME_E2F_MEDIATED_REGULATION_OF_DNA_REPLICATION	33	Down	0.623810583	0.834674527
3527	REACTOME_ADENYLATE_CYCLASE_ACTIVATING_PATHWAY	9	Down	0.623945687	0.834674527
3528	HILLION_HMGA1_TARGETS	70	Up	6.24E-01	8.35E-01
3529	REACTOME_CDK_MEDIATED_PHOSPHORYLATION_AND_REMOVAL_OF_CDC6	45	Down	6.24E-01	8.35E-01
3530	CHAN_INTERFERON_PRODUCING_DENDRITIC_CELL	2	Down	0.624241906	0.834674527
3531	DANG_MYC_TARGETS_UP	137	Down	0.624278993	0.834674527
3532	LE_SKI_TARGETS_UP	16	Up	0.624345597	0.834674527
3533	LEE_CALORIE_RESTRICTION_NEOCORTEX_UP	69	Up	0.624413109	0.834674527
3534	KEGG_PHOSPHATIDYLINOSITOL_SIGNALING_SYSTEM	64	Up	0.624541791	0.834674527

	A	B	C	D	E
3535	SENGUPTA_NASOPHARYNGEAL_CARCI_NOMA_UP	260	Up	0.62465491	0.834674527
3536	GOERING_BLOOD_HDL_CHOLESTEROL_QTL_CIS	8	Down	0.624708445	0.834674527
3537	STAMBOLSKY_TARGETS_OF_MUTATED_TP53_UP	42	Down	0.624771794	0.834674527
3538	WALLACE_JAK2_TARGETS_UP	23	Down	0.624907309	0.834674527
3539	TIMOFEeva_GROWTH_STRESS_VIA_STAT1_DN	16	Down	0.625164133	0.834674527
3540	BIOCARTA_BIOPEPTIDES_PATHWAY	34	Up	0.625166804	0.834674527
3541	MARSON_BOUND_BY_FOXP3_UNSTIMULATED	1049	Up	0.62606039	0.835631453
3542	FRASOR_TAMOXIFEN_RESPONSE_DN	11	Down	0.626324144	0.835726062
3543	MORI_EMU_MYC_LYMPHOMA_BY_ONSET_TIME_UP	108	Down	0.627594045	0.835726062
3544	KORKOLA_CORRELATED_WITH_POU5F1	31	Up	0.627723304	0.835726062
3545	NIKOLSKY_BREAST_CANCER_11Q12_Q14_AMPLICON	121	Up	0.628011755	0.835726062
3546	CERVERA_SDHB_TARGETS_1_DN	22	Up	0.628136098	0.835726062
3547	TERAMOTO_OPN_TARGETS_CLUSTER_4	11	Down	0.628599306	0.835726062
3548	SCHAEFFER_PROSTATE_DEVELOPMENT_48HR_DN	340	Up	0.628701978	0.835726062
3549	WHITE_NEUROBLASTOMA_WITH_1P36.3_DELETION	19	Down	0.628746238	0.835726062
3550	BIOCARTA_LAIR_PATHWAY	6	Up	0.628765296	0.835726062
3551	KUROKAWA_LIVER_CANCER_EARLY_RECURRENCE_UP	11	Up	0.629217787	0.835726062
3552	KEGG_RENIN_ANGIOTENSIN_SYSTEM	8	Up	0.629336805	0.835726062
3553	REACTOME_NFKB_IS_ACTIVATED_AND_SIGNALS_SURVIVAL	9	Up	0.629481245	0.835726062
3554	EPPERT_PROGENITOR	128	Up	0.629621941	0.835726062
3555	MARSON_FOXP3_TARGETS_STIMULATED_DN	8	Up	0.629677866	0.835726062
3556	RICKMAN_TUMOR_DIFFERENTIATED_MODERATELY_VS_POORLY_DN	13	Down	0.629686325	0.835726062
3557	REACTOME_SIGNALING_BY_BMP	21	Up	0.629775032	0.835726062

	A	B	C	D	E
3558	THILLAINADESAN_ZNF217_TARGETS_UP	44	Down	0.629782825	0.835726062
3559	FIGUEROA_AML_METHYLATION_CLUSTER_2_DN	4	Down	0.629837319	0.835726062
3560	BROWNE_HCMV_INFECTION_14HR_UP	138	Up	0.63006919	0.835726062
3561	CERIBELLI_PROMOTERS_INACTIVE_AND_BOUND_BY_NFY	20	Up	0.630169718	0.835726062
3562	ASGHARZADEH_NEUROBLASTOMA_POOR_SURVIVAL_DN	40	Up	0.630227048	0.835726062
3563	BIOCARTA_CK1_PATHWAY	14	Up	0.630368327	0.835726062
3564	PENG_RAPAMYCIN_RESPONSE_DN	237	Up	0.630388225	0.835726062
3565	FAELT_B_CLL_WITH_VH_REARRANGEMENTS_DN	47	Up	0.630431237	0.835726062
3566	LUI_THYROID_CANCER_CLUSTER_1	49	Up	0.630580208	0.835726062
3567	KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN	840	Down	0.630729976	0.835726062
3568	LEE_LIVER_CANCER_CIPROFIBRATE_DN	32	Up	0.631247484	0.835954665
3569	PID_ECADHERIN_NASCENT_AJ_PATHWAY	38	Down	6.31E-01	8.36E-01
3570	LEE_INTRATHYMIC_T_PROGENITOR	17	Up	6.31E-01	8.36E-01
3571	BIOCARTA_HIF_PATHWAY	14	Up	0.632426756	0.837035413
3572	REACTOME_REGULATION_OF_WATER_BALANCE_BY_RENAL_AQUAPORINS	33	Up	0.632668361	0.837120696
3573	HUMMEL_BURKITT'S_LYMPHOMA_UP	39	Up	0.633135689	0.837504516
3574	BANDRES_RESPONSE_TO_CARMUSTIN_WITHOUT_MGMT_24HR_UP	10	Down	0.633316456	0.837509167
3575	SCHAEFFER_PROSTATE_DEVELOPMENT_6HR_DN	480	Down	0.63482999	0.839132663
3576	SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_UP	461	Down	0.634899317	0.839132663
3577	HU_GENOTOXIN_ACTION_DIRECT_VS_INDIRECT_24HR	52	Up	0.635539806	0.839693861
3578	KYNG_WERNER_SYNDROME_UP	18	Up	0.635679353	0.839693861
3579	EPPERT_LSC_R	42	Down	0.636192988	0.840137471

	A	B	C	D	E
3580	WANG_CLASSIC_ADIPOGENIC_TARGETS_OF_PPAR_G	16	Up	0.636680094	0.840446938
3581	GRAESSMANN_RESPONSE_TO_MC_AND_SERUM_DEPRIVATION_UP	155	Up	0.637076665	0.840446938
3582	LEE_CALORIE_RESTRICTION_MUSCLE_DN	43	Down	0.637095297	0.840446938
3583	SCHLOSSER_MYC_TARGETS_REPRESSED_BY_SERUM	155	Up	0.637138821	0.840446938
3584	KORKOLA_EMBRYONIC_CARCINOMA_VS_SEMINOMA_DN	17	Down	0.63763548	0.840867329
3585	REACTOME_P38MAPK_EVENTS	13	Down	0.638100825	0.840991498
3586	KHETCHOUMIAN_TRIM24_TARGETS_DN	5	Down	0.638347774	0.840991498
3587	BIOCARTA_TCR_PATHWAY	36	Up	0.638402155	0.840991498
3588	ST_GAQ_PATHWAY	25	Up	0.638441588	0.840991498
3589	MEISSNER_BRAIN_HCP_WITH_H3K4ME2_AND_H3K27ME3	37	Up	0.639034997	0.841458686
3590	REACTOME_INNATE_IMMUNE_SYSTEM	159	Up	0.639280829	0.841458686
3591	YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_7	70	Down	0.639330515	0.841458686
3592	VANDESLUIS_COMMD1_TARGETS_GROUP_3_DN	26	Down	0.640745254	0.84308586
3593	MARTINELLI_IMMATURE_NEUTROPHIL_DN	4	Down	0.641036645	0.843234451
3594	WHITFIELD_CELL_CYCLE_G1_S	133	Up	0.641555877	0.843682583
3595	BIOCARTA_WNT_PATHWAY	25	Down	0.642030717	0.844072103
3596	NIKOLSKY_BREAST_CANCER_21Q22_AMPLICON	15	Down	0.642416068	0.844343789
3597	LOPEZ_EPITHELIOID_MESOTHELIOMA	13	Down	0.642885447	0.844682921
3598	DITTMER_PTHLH_TARGETS_DN	68	Up	0.643187897	0.844682921
3599	CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_UP	110	Up	0.643210402	0.844682921
3600	TOYOTA_TARGETS_OF_MIR34B_AND_MIR34C	432	Down	0.643425774	0.844730976
3601	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_2	5	Down	0.643747136	0.844850677
3602	IWANAGA_E2F1_TARGETS_NOT_INDUCED_BY_SERUM	6	Up	0.643874559	0.844850677

	A	B	C	D	E
3603	BORCZUK_MALIGNANT_MESOTHELIOMA_UP	300	Down	0.644291109	0.845162545
3604	PID_MYC_PATHWAY	24	Down	0.64466233	0.84529135
3605	LOPEZ_TRANSLATION_VIA_FN1_SIGNALING	34	Down	0.644747095	0.84529135
3606	MCBRYAN_PUBERTAL_BREAST_5_6WK_DN	121	Down	0.645254985	0.845722554
3607	STARK_HYPPOCAMPUS_22Q11_DELETION_DN	19	Down	0.645730974	0.846111717
3608	TONG_INTERACT_WITH_PTTG1	53	Down	0.645917851	0.846121942
3609	RICKMAN_METASTASIS_DN	218	Down	0.646625567	0.846814247
3610	DER_IFN_GAMMA_RESPONSE_DN	10	Up	6.47E-01	8.47E-01
3611	STONER_ESOPHAGEAL_CARCINOGENESIS_UP	34	Up	6.47E-01	8.47E-01
3612	HARRIS_BRAIN_CANCER_PROGENITORS	28	Down	0.647617934	0.847177468
3613	KEGG_RETINOL_METABOLISM	18	Up	0.647620109	0.847177468
3614	REACTOME_DOWNSTREAM_SIGNALING_OF_ACTIVATED_FGFR	82	Down	0.647908252	0.847319814
3615	ZHAN_MULTIPLE_MYELOMA_PR_DN	37	Down	0.648194612	0.847459751
3616	REACTOME_PRESYNAPTIC_NICOTINIC_ACETYLCHOLINE_RECEPTORS	5	Down	0.648582978	0.847732938
3617	SHIN_B_CELL_LYMPHOMA_CLUSTER_8	27	Up	0.648867296	0.847870014
3618	RIZ_ERYTHROID_DIFFERENTIATION	73	Down	0.649383187	0.848309527
3619	REACTOME_GLOBAL_GENOMIC_NER_GG_NER	31	Down	0.649968486	0.848839441
3620	REACTOME_ACTIVATION_OF_RAC	13	Down	0.650376762	0.849137939
3621	PID_P38_ALPHA_BETA_DOWNSTREAM_PATHWAY	36	Up	0.650939012	0.849515231
3622	MOOTHA_GLYCOGEN_METABOLISM	17	Down	0.65119506	0.849515231
3623	RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_UP	221	Down	0.651205115	0.849515231
3624	PID_ARF6_TRAFFICKING_PATHWAY	41	Down	0.652046495	0.84978146
3625	MCBRYAN_TERMINAL_END_BUD_UP	10	Down	0.652056619	0.84978146
3626	LIM_MAMMARY_LUMINAL_MATURE_UP	94	Up	0.652115391	0.84978146
3627	PID_P38_GAMMA_DELTA_PATHWAY	11	Up	0.652128587	0.84978146
3628	SMID_BREAST_CANCER_RELAPSE_IN_BRAIN_UP	24	Down	0.652577737	0.849966174
3629	KEGG_LONG_TERM_DEPRESSION	54	Down	0.652630112	0.849966174

	A	B	C	D	E
3630	GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_DN	1004	Up	0.653496613	0.850860154
3631	LIN_MELANOMA_COPY_NUMBER_DN	38	Up	0.654392376	0.851537056
3632	REACTOME_SEMAPHORIN_INTERACTIONS	61	Up	0.654398206	0.851537056
3633	DELYS_THYROID_CANCER_DN	179	Up	0.654557162	0.851537056
3634	OXFORD_RALA_OR_RALB_TARGETS_UP	47	Down	0.655461866	0.852479305
3635	GOLDRATH_IMMUNE_MEMORY	57	Up	0.656403253	0.853394162
3636	NICK_RESPONSE_TO_PROC_TREATMENT_UP	4	Down	0.656684691	0.853394162
3637	REACTOME_GLUONEOGENESIS	25	Down	0.656707127	0.853394162
3638	ROVERSI_GLIOMA_LOH_REGIONS	31	Down	0.656948302	0.853472842
3639	KASLER_HDAC7_TARGETS_1_UP	166	Down	0.657138092	0.853484741
3640	BIOCARTA_PARKIN_PATHWAY	12	Up	0.658693605	0.855265945
3641	BAKKER_FOXO3_TARGETS_UP	55	Up	0.658871543	0.855265945
3642	BIOCARTA_ATM_PATHWAY	20	Up	0.659508421	0.855852695
3643	BIOCARTA_BLYMPHOCYTE_PATHWAY	5	Up	0.659860084	0.855852695
3644	XU_GH1_EXOGENOUS_TARGETS_DN	86	Up	0.659878017	0.855852695
3645	PETROVA_ENDOTHELIUM_LYMPHATIC_VS_BLOOD_UP	109	Up	0.660312295	0.855852695
3646	REACTOME_S_PHASE	105	Up	0.660543611	0.855852695
3647	STEIN_ESTROGEN_RESPONSE_NOT_VIA_ESRRA	17	Up	0.660554454	0.855852695
3648	REACTOME_APOPTOTIC_EXECUTION_PHASE	44	Up	0.660591488	0.855852695
3649	CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_UP	98	Down	0.66134738	0.856597141
3650	WANG_BARRETTES_ESOPHAGUS_UP	35	Up	0.661735517	0.856864982
3651	SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_UP	167	Down	6.62E-01	8.57E-01
3652	REACTOME_ACTIVATED_TLR4_SIGNALING	79	Up	6.62E-01	8.57E-01
3653	BIOCARTA_ETC_PATHWAY	12	Up	0.662685198	0.857389803
3654	STEGMEIER_PRE-MITOTIC_CELL_CYCLE_REGULATORS	10	Up	0.663295147	0.857944038
3655	PID_ER_NONGENOMIC_PATHWAY	37	Up	0.664470038	0.858855098

	A	B	C	D	E
3656	REACTOME_GASTRIN_CREB_SIGNALLING_PATH WAY_VIA_PKC_AND_MAPK	105	Down	0.664492982	0.858855098
3657	TOMIDA_LUNG_CANCER_POOR_SURVIVAL	3	Up	0.664599605	0.858855098
3658	LI_AMPLIFIED_IN_LUNG_CANCER	155	Down	0.664796984	0.858855098
3659	AMBROSINI_FLAVOPIRIDOL_TREATMENT_TP53	96	Up	0.664908349	0.858855098
3660	VART_KSHV_INFECTION_ANGIOGENIC_MARKERS _DN	102	Down	0.665216902	0.859009512
3661	ZHANG_RESPONSE_TO_CANTHARIDIN_DN	67	Down	0.665391495	0.859009512
3662	DONATO_CELL_CYCLE_TRETINOIN	6	Down	0.66601565	0.859580428
3663	KEGG_FC_GAMMA_R_MEDIATED_PHAGOCYTOSIS	81	Down	0.666264012	0.859666154
3664	YAO_TEMPORAL_RESPONSE_TO_PROGESTERON E_CLUSTER_14	141	Down	0.666787993	0.860107362
3665	ONO_FOXP3_TARGETS_DN	22	Down	0.667027937	0.860182043
3666	LI_CYTIDINE_ANALOGS_CYCOTOXICITY	14	Up	0.667486748	0.860517837
3667	MOREIRA_RESPONSE_TO_TSA_DN	10	Down	0.66765257	0.860517837
3668	GAZDA_DIAMOND_BLACKFAN_ANEMIA_PROGENI TOR_DN	65	Up	0.668117087	0.860881712
3669	RAY_TARGETS_OF_P210_BCR_ABL_FUSION_DN	14	Down	0.668861135	0.86160547
3670	WENDT_COHESIN_TARGETS_UP	33	Up	0.669446907	0.86197641
3671	CHANDRAN_METASTASIS_UP	192	Down	0.669586598	0.86197641
3672	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_27	9	Down	0.669696381	0.86197641
3673	TESAR_ALK_TARGETS_HUMAN_ES_5D_DN	7	Up	0.670160186	0.862086876
3674	DAWSON_METHYLATED_IN_LYMPHOMA_TCL1	42	Up	0.670425033	0.862086876
3675	BERNARD_PPAPDC1B_TARGETS_DN	48	Up	0.670685598	0.862086876
3676	SU_PANCREAS	30	Down	0.670844986	0.862086876
3677	GALLUZZI_PREVENT_MITOCHONDIAL_PERMEABIL IZATION	22	Up	0.670935728	0.862086876
3678	GAZDA_DIAMOND_BLACKFAN_ANEMIA_ERYTHR OID_DN	428	Up	0.67125086	0.862086876
3679	REACTOME_Glutamate_NEUROTRANSMITTER_ RELEASE_CYCLE	13	Down	0.671266364	0.862086876

	A	B	C	D	E
3680	SANSOM_APC_TARGETS_UP	104	Up	0.671354251	0.862086876
3681	MIKKELSEN_ES_HCP_WITH_H3_UNMETHYLATED	23	Down	0.671424276	0.862086876
3682	ZHAN_MULTIPLE_MYELOMA_CD1_AND_CD2_UP	79	Up	0.671974874	0.862413463
3683	KEGG_MELANOMA	53	Up	0.672043676	0.862413463
3684	REACTOME_AMINE_DERIVED_HORMONES	3	Down	0.672372187	0.86243456
3685	HERNANDEZ_MITOTIC_ARREST_BY_DOCETAXEL_1_DN	34	Up	0.672425168	0.86243456
3686	HEIDENBLAD_AMPLIFIED_IN_PANCREATIC_CANCER	30	Up	0.672922731	0.862575669
3687	MATZUK_CUMULUS_EXPANSION	4	Up	0.672924445	0.862575669
3688	MATZUK_MATERNAL_EFFECT	3	Down	0.673082855	0.862575669
3689	RIGGI_EWING_SARCOMA_PROGENITOR_DN	143	Down	0.673388048	0.862732789
3690	SHANK_TAL1_TARGETS_DN	5	Up	0.673581968	0.862747302
3691	BIOCARTA_CDC42RAC_PATHWAY	16	Up	0.673951491	0.862913472
3692	ZHENG_FOXP3_TARGETS_DN	4	Up	6.74E-01	8.63E-01
3693	KORKOLA_CHORIOCARCINOMA_UP	6	Up	6.75E-01	8.63E-01
3694	ROESSLER_LIVER_CANCER_METASTASIS_UP	87	Up	0.674942305	0.863318964
3695	KEGG_PATHWAYS_IN_CANCER	268	Down	0.675058849	0.863318964
3696	REACTOME_PURINE_RIBONUCLEOSIDE_MONOPHOSPHATE_BIOSYNTHESIS	11	Down	0.675124566	0.863318964
3697	REACTOME_HEPARAN_SULFATE_HEPARIN_HSGAG_METABOLISM	44	Down	0.675822317	0.863458109
3698	ZHONG_RESPONSE_TO_AZACITIDINE_AND_TSA_DN	68	Up	0.675844522	0.863458109
3699	ABDELMOHSEN_ELAVL4_TARGETS	16	Up	0.676034306	0.863458109
3700	REACTOME_REGULATION_OF_ORNITHINE_DECARBOXYLASE_ODC	46	Up	0.676275086	0.863458109
3701	ROVERSI_GLIOMA_COPY_NUMBER_UP	80	Down	0.676313713	0.863458109
3702	NIELSEN_LEIOMYOSARCOMA_CNN1_DN	20	Up	0.676502196	0.863458109
3703	BOYLAN_MULTIPLE_MYELOMA_PCA1_UP	55	Up	0.676512575	0.863458109
3704	REACTOME_GENERATION_OF_SECOND_MESSENGER_MOLECULES	12	Down	0.677261565	0.864043726

	A	B	C	D	E
3705	BARRIER_COLON_CANCER_RECURRENCE_UP	37	Down	0.677646036	0.864043726
3706	LUCAS_HNF4A_TARGETS_DN	7	Down	0.678383863	0.864043726
3707	GRAESSMANN_APOPTOSIS_BY_SERUM_DEPRIVATION_DN	202	Up	0.678429134	0.864043726
3708	SUZUKI_RESPONSE_TO_TSA	14	Down	0.678535192	0.864043726
3709	LIM_MAMMARY_LUMINAL_PROGENITOR_DN	12	Up	0.67854572	0.864043726
3710	ABDULRAHMAN_KIDNEY_CANCER_VHL_DN	10	Up	0.67857018	0.864043726
3711	ZHANG_RESPONSE_TO_IKK_INHIBITOR_AND_TNF_DN	94	Up	0.678604671	0.864043726
3712	PID_PI3K_PLK_TRK_PATHWAY	32	Up	0.678721518	0.864043726
3713	REACTOME_SPRY_REGULATION_OF_FGF_SIGNALING	13	Down	0.678800066	0.864043726
3714	REACTOME_REGULATION_OF_COMPLEMENT_CASCADE	6	Up	0.679517027	0.864141669
3715	REACTOME_SIGNALING_BY_NOTCH3	11	Up	0.679886114	0.864141669
3716	BIOCARTA_KREB_PATHWAY	8	Up	0.679921691	0.864141669
3717	INAMURA_LUNG_CANCER_SCC_SUBTYPES_UP	14	Down	0.679934478	0.864141669
3718	NEMETH_INFLAMMATORY_RESPONSE_LPS_DN	28	Down	0.679968796	0.864141669
3719	OHM_EMBRYONIC_CARCINOMA_DN	5	Up	0.680097533	0.864141669
3720	DANG_BOUND_BY_MYC	1004	Up	0.680308227	0.864141669
3721	TCGA_GLIOMASTOMA_COPY_NUMBER_UP	64	Up	0.680340108	0.864141669
3722	REACTOME_ADG_SIGNALLING_THROUGH_P2RY1	20	Up	0.680976792	0.86471791
3723	HAHTOLA_MYCOSIS_FUNGOIDES_DN	10	Up	0.681196523	0.864764527
3724	REACTOME_DOWNREGULATION_OF_ERBB2_ERBB3_SIGNALING	10	Up	0.681397617	0.86477202
3725	REACTOME_G2_M_CHECKPOINTS	40	Up	0.681568466	0.86477202
3726	KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP	1229	Down	0.682146744	0.865273387
3727	VALK_AML_WITH_EVI1	19	Up	0.682674293	0.865710155
3728	POOLA_INVASIVE_BREAST_CANCER_DN	97	Up	0.683374048	0.86626486
3729	MEISSNER_ES_ICP_WITH_H3K4ME3	30	Down	0.683512759	0.86626486

	A	B	C	D	E
3730	REACTOME_TRANSLOCATION_OF_ZAP_70_TO_I MMUNOLOGICAL_SYNAPSE	5	Down	0.683931404	0.86626486
3731	GAUSSMANN_MLL_AF4_FUSION_TARGETS_C_UP	150	Up	0.684187755	0.86626486
3732	REACTOME_ELEVATION_OF_CYTOSOLIC_CA2_LEV ELS	4	Up	0.684195929	0.86626486
3733	BURTON_ADIPOGENESIS_11	52	Up	6.84E-01	8.66E-01
3734	REACTOME_PI3K_EVENTS_IN_ERBB2_SIGNALING	38	Up	6.84E-01	8.66E-01
3735	BOHN_PRIMARY_IMMUNODEFICIENCY_SYNDRO M_UP	45	Up	0.685014758	0.866632979
3736	REACTOME_THE_ACTIVATION_OF_ARYLSULFATA SES	10	Up	0.685052735	0.866632979
3737	MIKHAYLOVA_OXIDATIVE_STRESS_RESPONSE_VI A_VHL_UP	7	Down	0.685573512	0.867059648
3738	REACTOME_SIGNALING_BY_TGF_BETA_RECEPTO R_COMPLEX	60	Up	0.687034435	0.868526429
3739	REACTOME_EXTENSION_OF_TELOMERES	27	Down	0.687100908	0.868526429
3740	KEGG_CYSTEINE_AND_METHIONINE_METABOLIS M	27	Up	0.68787643	0.869274173
3741	KEGG_LONG_TERM_POTENTIATION	60	Down	0.688131701	0.869364248
3742	REACTOME_SEROTONIN_RECEPTORS	6	Down	0.688923679	0.870132153
3743	BIOCARTA_AKAP13_PATHWAY	11	Up	0.689621058	0.870417447
3744	KUMAR_PATHOGEN_LOAD_BY_MACROPHAGES	215	Up	0.690022091	0.870417447
3745	REACTOME_TRAFFICKING_OF_GLUR2_CONTAINI NG_AMPA_RECEPTORS	14	Down	0.690102404	0.870417447
3746	RODRIGUES_THYROID_CARCINOMA_POORLY_DIF FERENTIATED_DN	745	Up	0.690299778	0.870417447
3747	ZHENG_FOXP3_TARGETS_UP	23	Up	0.690375028	0.870417447
3748	GALI_TP53_TARGETS_APOPTOTIC_DN	6	Up	0.690405461	0.870417447
3749	LI_WILMS_TUMOR_VS_FETAL_KIDNEY_2_UP	25	Down	0.690439067	0.870417447

	A	B	C	D	E
3750	WANG_PROSTATE_CANCER_ANDROGEN_INDEPENDENT	54	Up	0.690693442	0.870505871
3751	PID_IL23_PATHWAY	16	Up	0.691291089	0.87100755
3752	AIGNER_ZEB1_TARGETS	32	Up	0.691643366	0.87100755
3753	HOELZEL_NF1_TARGETS_DN	94	Down	0.691792665	0.87100755
3754	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_23	15	Up	0.691828854	0.87100755
3755	DOANE_RESPONSE_TO_ANDROGEN_UP	151	Up	0.692375336	0.871304995
3756	CALVET_IRINOTECAN_SENSITIVE_VS_RESISTANT_UP	4	Up	0.692477209	0.871304995
3757	SIG_BCR_SIGNALING_PATHWAY	41	Up	0.692656696	0.871304995
3758	SCHUHMACHER_MYC_TARGETS_UP	80	Up	0.692873823	0.871304995
3759	REACTOME_DOWNSTREAM_SIGNAL_TRANSDUCTION	87	Up	0.692987126	0.871304995
3760	MIKKELSEN_MCV6_LCP_WITH_H3K27ME3	7	Down	0.693305493	0.871473385
3761	FIGUEROA_AML_METHYLATION_CLUSTER_7_DN	5	Up	0.694625659	0.872900596
3762	OZEN_MIR125B1_TARGETS	25	Down	0.694998308	0.873043296
3763	VALK_AML_CLUSTER_9	25	Up	0.695108757	0.873043296
3764	SASAKI_TARGETS_OF_TP73_AND_TP63	10	Up	0.69555827	0.873149473
3765	SCHOEN_NFKB_SIGNALING	25	Down	0.695562882	0.873149473
3766	AGUIRRE_PANCREATIC_CANCER_COPY_NUMBER_DN	224	Up	0.696157844	0.873536832
3767	DAIRKEE_TERT_TARGETS_DN	108	Up	0.696241209	0.873536832
3768	GU_PDEF_TARGETS_DN	24	Down	0.696560475	0.873705401
3769	KYNG_ENVIRONMENTAL_STRESS_RESPONSE_DN	19	Up	0.697102742	0.873855997
3770	REACTOME_YAP1_AND_WWTR1_TAZ_STIMULATED_GENE_EXPRESSION	22	Up	0.697154681	0.873855997
3771	PID_IL2_1PATHWAY	49	Up	0.697235367	0.873855997
3772	VERRECCHIA_RESPONSE_TO_TGFB1_C5	20	Down	0.699411568	0.87635101
3773	WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCER_DN	21	Up	0.69960942	0.876366519

	A	B	C	D	E
3774	BURTON_ADIPOGENESIS_PEAK_AT_16HR	38	Up	7.00E-01	8.76E-01
3775	JOHANSSON_BRAIN_CANCER_EARLY_VS_LATE_U P	6	Up	7.01E-01	8.77E-01
3776	LIU_CMYB_TARGETS_DN	6	Up	0.701452988	0.877779116
3777	REACTOME_DIGESTION_OF_DIETARY_CARBOHYD RATE	1	Down	0.7014802	0.877779116
3778	TURJANSKI_MAPK1_AND_MAPK2_TARGETS	12	Down	0.701828197	0.877906743
3779	KYNG_DNA_DAMAGE_BY_4NQO_OR_UV	53	Up	0.702121232	0.877906743
3780	REACTOME_MYD88_MAL_CASCADE_INITIATED_O N_PLASMA_MEMBRANE	71	Up	0.702139594	0.877906743
3781	BIOCARTA_NTHI_PATHWAY	21	Up	0.702564511	0.878205638
3782	REACTOME_CELL_CELL_COMMUNICATION	94	Up	0.70284854	0.878328313
3783	MARTINEZ_RESPONSE_TO TRABECTEDIN	49	Down	0.703378112	0.878757689
3784	BLALOCK_ALZHEIMERS_DISEASE_INCIPENT_DN	151	Down	0.704076432	0.879187705
3785	REACTOME_SIGNALING_BY_ILS	84	Up	0.704190551	0.879187705
3786	ROME_INSULIN_TARGETS_IN_MUSCLE_DN	151	Up	0.704280521	0.879187705
3787	CAFFAREL_RESPONSE_TO_THC_8HR_3_UP	5	Up	0.704587867	0.879339058
3788	REACTOME_HYALURONAN_UPTAKE_AND_DEGRA DATION	8	Up	0.704779373	0.879345798
3789	RICKMAN_METASTASIS_UP	336	Up	0.705064373	0.879469156
3790	MIKKELSEN_NPC_HCP_WITH_H3K27ME3	190	Down	0.705305529	0.879537773
3791	GOLDRATH_HOMEOSTATIC_PROLIFERATION	165	Up	0.705543124	0.879601916
3792	KEGG_PENTOSE_PHOSPHATE_PATHWAY	22	Down	0.705745657	0.879622324
3793	NIKOLSKY_BREAST_CANCER_8P12_P11_AMPLICO N	41	Down	0.706093523	0.879659382
3794	REACTOME_VOLTAGE_GATED_POTASSIUM_CHA NNELS	23	Down	0.706147732	0.879659382
3795	REACTOME_P2Y_RECEPTORS	5	Down	0.70657194	0.879955829
3796	MURAKAMI_UV_RESPONSE_1HR_DN	6	Down	0.706932746	0.880076949
3797	CHESLER_BRAIN_HIGHEST_GENETIC_VARIANCE	30	Up	0.707041714	0.880076949
3798	BOYERINAS_ONCOFETAL_TARGETS_OF_LET7A1	12	Up	0.708411053	0.88130396

	A	B	C	D	E
3799	EBAUER_TARGETS_OF_PAX3_FOXO1_FUSION_D N	42	Down	0.708681084	0.88130396
3800	REACTOME_G1_S_SPECIFIC_TRANSCRIPTION	17	Up	0.708771137	0.88130396
3801	BIOCARTA_NEUROTRANSMITTERS_PATHWAY	1	Down	0.708773555	0.88130396
3802	REACTOME_HORMONE_SENSITIVE_LIPASE_HSL_ MEDIATED_TRIACYLGLYCEROL_HYDROLYSIS	8	Up	0.709398069	0.881723711
3803	MARIADASON_REGULATED_BY_HISTONE_ACETYLA TION_UP	75	Down	0.709484349	0.881723711
3804	KEGG_NUCLEOTIDE_EXCISION_REPAIR	42	Down	0.709990935	0.882121264
3805	IIZUKA_LIVER_CANCER_PROGRESSION_G2_G3_D N	9	Down	0.71042232	0.8824252
3806	BANDRES_RESPONSE_TO_CARMUSTIN_MGMT_4 8HR_UP	13	Up	0.710646946	0.882447521
3807	HOLLEMAN_ASPARAGINASE_RESISTANCE_ALL_U P	21	Down	0.710901403	0.882447521
3808	ST_B_CELL_ANTIGEN_RECEPTOR	35	Up	0.711000574	0.882447521
3809	KANG_IMMORTALIZED_BY_TERT_DN	63	Down	0.711811142	0.883216196
3810	CHANG_IMMORTALIZED_BY_HP31_UP	62	Up	0.712308242	0.883216196
3811	REACTOME_SIGNAL_TRANSDUCTION_BY_L1	33	Up	0.712458409	0.883216196
3812	LANDIS_BREAST_CANCER_PROGRESSION_DN	57	Up	0.712501528	0.883216196
3813	TESAR_ALK_AND_JAK_TARGETS_MOUSE_ES_D4_ DN	6	Down	0.712554527	0.883216196
3814	BIOCARTA_ERK_PATHWAY	26	Up	0.71339194	0.88402227
3815	NIELSEN_MALIGNAT_FIBROUS_HISTIOCYTOMA_ UP	14	Up	7.14E-01	8.85E-01
3816	MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_ UP	6	Down	7.15E-01	8.86E-01
3817	REACTOME_INSULIN_RECEPTOR_SIGNALLING_CA SCADE	68	Up	0.715423588	0.885842885
3818	STONER_ESOPHAGEAL_CARCINOGENESIS_DN	7	Up	0.715731106	0.88599148
3819	AMIT_SERUM_RESPONSE_480_MCF10A	30	Up	0.716773116	0.887048971
3820	PID_LIS1_PATHWAY	26	Up	0.717419855	0.887577799

	A	B	C	D	E
3821	BIOCARTA_MONOCYTE_PATHWAY	5	Up	0.71775516	0.887577799
3822	REACTOME_SEMA3A_PLEXIN_REPULSION_SIGNALING_BY_INHIBITING_INTEGRIN_ADHESION	13	Down	0.717763972	0.887577799
3823	RUNNE_GENDER_EFFECT_UP	1	Down	0.718161805	0.887724592
3824	THEILGAARD_NEUTROPHIL_AT_SKIN_WOUND_DN	204	Down	0.718258437	0.887724592
3825	WARTERS_RESPONSE_TO_IR_SKIN	70	Up	0.718492268	0.887781372
3826	CHEMELLO_SOLEUS_VS_EDL_MYOFIBERS_DN	14	Up	0.719026391	0.888209071
3827	REACTOME_TRANSMISSION_ACROSS_CHEMICAL_SYNAPSES	143	Down	0.720273596	0.889245586
3828	WANG_TUMOR_INVASIVENESS_DN	202	Up	0.720298994	0.889245586
3829	YOKOE_CANCER_TESTIS_ANTIGENS	29	Up	0.720464505	0.889245586
3830	REACTOME_PURINE_SALVAGE	12	Up	0.720618275	0.889245586
3831	STEIN_ESRRA_TARGETS_UP	376	Up	0.721355047	0.889275187
3832	BHATI_G2M_ARREST_BY_2METHOXYESTRADIOL_UP	102	Up	0.721374538	0.889275187
3833	SAKAI_CHRONIC_HEPATITIS_VS_LIVER_CANCER_UP	75	Down	0.721476888	0.889275187
3834	REACTOME_GLUCOSE_METABOLISM	56	Up	0.721522088	0.889275187
3835	GRADE_COLON_VS_RECTAL_CANCER_DN	47	Up	0.721583294	0.889275187
3836	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREY_DN	58	Down	0.72187997	0.889408828
3837	REACTOME_CROSS_PRESENTATION_OF_SOLUBLE_EXOGENOUS_ANTIGENS_ENDOSOMES	43	Down	0.7227686	0.890271542
3838	TOMIDA_METASTASIS_UP	22	Up	0.723226594	0.890376659
3839	FERRANDO_T_ALL_WITH_MLL_ENL_FUSION_DN	77	Up	0.723230819	0.890376659
3840	REACTOME_TOLL_RECEPTOR_CASCADES	94	Up	0.723467119	0.890435566
3841	WINNEPENNINGX_MELANOMA_METASTASIS_DN	26	Down	0.723801965	0.890615699
3842	HAHTOLA_CTCL_PATHOGENESIS	5	Up	0.724526111	0.891274635
3843	ZEILSTRA_CD44_TARGETS_UP	5	Up	0.72499102	0.891392858

	A	B	C	D	E
3844	REACTOME_IL_7_SIGNALING	6	Down	0.725022173	0.891392858
3845	REACTOME_SYNTHESIS_OF_DNA	89	Down	0.725188179	0.891392858
3846	DOUGLAS_BMI1_TARGETS_UP	526	Up	0.725459108	0.891440838
3847	HUI_MAPK14_TARGETS_UP	17	Up	0.725695844	0.891440838
3848	RODRIGUES_NTN1_TARGETS_UP	16	Down	0.725793207	0.891440838
3849	CESLER_BRAIN_D6MIT150_QTL_TRANS	3	Down	0.726478737	0.892050944
3850	REACTOME_METABOLISM_OF_CARBOHYDRATES	194	Down	0.72709684	0.892384241
3851	MEISSNER_BRAIN_HCP_WITH_H3_UNMETHYLATE D	14	Down	0.7271279	0.892384241
3852	KAUFFMANN_MELANOMA_RELAPSE_DN	6	Up	0.727407506	0.892482794
3853	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_25	5	Up	0.727585973	0.892482794
3854	IWANAGA_CARCIANOGENESIS_BY_KRAS_PTEN_D N	283	Up	0.728418656	0.89251874
3855	JOHANSSON_GLIOMAGENESIS_BY_PDGFBN_DN	18	Down	0.72847275	0.89251874
3856	NIKOLSKY_BREAST_CANCER_15Q26_AMPLICON	18	Up	7.28E-01	8.93E-01
3857	HSIAO_HOUSEKEEPING_GENES	378	Down	7.29E-01	8.93E-01
3858	BONCI_TARGETS_OF_MIR15A_AND_MIR16_1	83	Down	0.728559742	0.89251874
3859	BYSTRYKH_HEMATOPOIESIS_STEM_CELL_RUNX1	5	Up	0.728953003	0.892769036
3860	KANNAN_TP53_TARGETS_UP	56	Up	0.729349056	0.89302262
3861	REACTOME_MAP_KINASE_ACTIVATION_IN_TLR_C ASCAD	48	Up	0.729556893	0.893045678
3862	REACTOME_ION_CHANNEL_TRANSPORT	38	Down	0.72998759	0.893298048
3863	GENTILE_UV_RESPONSE_CLUSTER_D4	53	Up	0.730390985	0.893298048
3864	KORKOLA_EMBRYONAL_CARCINOMA_UP	38	Up	0.7304338	0.893298048
3865	WORSCHER_TUMOR_EVASION_AND_TOLERANCE NICITY_DN	10	Up	0.730519293	0.893298048
3866	REACTOME_PLATELET_AGGREGATION_PLUG_FO RMATION	24	Down	0.730983271	0.893634141
3867	BIOCARTA_IGF1MTOR_PATHWAY	19	Up	0.731368906	0.89387431

	A	B	C	D	E
3868	KEGG_TAURINE_AND_HYPOTAURINE_METABOLISM	5	Up	0.731894605	0.894222553
3869	STEARMAN_LUNG_CANCER_EARLY_VS_LATE_UP	118	Up	0.732219494	0.894222553
3870	GROSS_HYPOXIA_VIA_ELK3_AND_HIF1A_DN	96	Down	0.732306615	0.894222553
3871	WANG_IMMORTALIZED_BY_HOXA9_AND_MEIS1_UP	19	Up	0.732595539	0.894222553
3872	JOHNSTONE_PARVB_TARGETS_3_DN	885	Up	0.73268001	0.894222553
3873	REACTOME_GABA_RECEPTOR_ACTIVATION	37	Down	0.73278936	0.894222553
3874	ELVIDGE_HIF2A_TARGETS_UP	6	Up	0.733607509	0.894989796
3875	BIOCARTA_NGF_PATHWAY	16	Up	0.734804552	0.896048075
3876	ZUCCHI_METASTASIS_UP	37	Down	0.734854242	0.896048075
3877	GRADE_METASTASIS_DN	43	Down	0.735053469	0.896059763
3878	YOSHIOKA_LIVER_CANCER_EARLY_RECURRENCE_DN	47	Up	0.736112873	0.896863492
3879	RAMPON_ENRICHED_LEARNING_ENVIRONMENT_EARLY_DN	8	Up	0.736171506	0.896863492
3880	LIAN_NEUTROPHIL_GRANULE_CONSTITUENTS	9	Up	0.736282219	0.896863492
3881	BIOCARTA_GSK3_PATHWAY	22	Up	0.736599624	0.897018872
3882	REACTOME_P75NTR_SIGNALS_VIA_NFKB	12	Up	0.737182269	0.897497094
3883	WANG_TARGETS_OF_MLL_CBP_FUSION_DN	44	Down	0.738252848	0.898518944
3884	NAKAMURA_ALVEOLAR_EPITHELIUM	3	Down	0.738511354	0.898518944
3885	REACTOME_NUCLEOTIDE_LIKE_PURINERGIC_RECEPTORS	8	Down	0.73859208	0.898518944
3886	TESAR_ALK_TARGETS_EPISC_4D_UP	3	Up	0.738860207	0.898613766
3887	DARWICHE_SQUAMOUS_CELL_CARCINOMA_UP	114	Down	0.739657287	0.899126774
3888	RASHI_RESPONSE_TO_IONIZING_RADIATION_5	128	Up	0.739662597	0.899126774
3889	BIOCARTA_FMLP_PATHWAY	29	Down	0.740374177	0.899760284
3890	REACTOME_TCA_CYCLE_AND_RESPIRATORY_ELECTRON_TRANSPORT	124	Down	0.740801296	0.900047859
3891	NIKOLSKY_BREAST_CANCER_1Q32_AMPLICON	6	Down	0.741192054	0.900064072
3892	BIOCARTA_INFLAM_PATHWAY	8	Up	0.741236332	0.900064072

	A	B	C	D	E
3893	LEE_DOUBLE_POLAR_THYMOCYTE	17	Down	0.74138611	0.900064072
3894	BROWNE_HCMV_INFECTION_48HR_UP	156	Up	0.741637355	0.900137812
3895	ZHAN_MULTIPLE_MYELOMA_MS_DN	39	Down	0.742049032	0.900189451
3896	BIOCARTA_AHSP_PATHWAY	9	Up	0.742060934	0.900189451
3897	REACTOME_ER_PHAGOSOME_PATHWAY	57	Up	7.42E-01	9.00E-01
3898	BIOCARTA_TCRA_PATHWAY	5	Down	7.43E-01	9.00E-01
3899	NIKOLSKY_BREAST_CANCER_16Q24_AMPLICON	47	Down	0.74271694	0.900291828
3900	BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_UP	175	Up	0.74375359	0.900847072
3901	KEGG_PROTEASOME	41	Down	0.743879956	0.900847072
3902	MANTOVANI_VIRAL_GPCR_SIGNALING_DN	36	Down	0.743882225	0.900847072
3903	REACTOME_GLUCAGON_TYPE_LIGAND_RECEPTORS	20	Down	0.744257652	0.900847072
3904	SIG_PIP3_SIGNALING_IN_B_LYMPHOCYTES	28	Up	0.744522141	0.900847072
3905	XU_RESPONSE_TO_TRETINOIN_AND_NSC682994_DN	15	Up	0.744565808	0.900847072
3906	REACTOME_PTM_GAMMA_CARBOXYLATION_HYPUSINE_FORMATION_AND_ARYLSULFATASE_ACTIVATION	18	Up	0.744587547	0.900847072
3907	NAGY_STAGA_COMPONENTS_HUMAN	15	Down	0.744700246	0.900847072
3908	GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_UP	75	Up	0.74536355	0.901277686
3909	REACTOME_REVERSIBLE_HYDRATION_OF_CARBON_DIOXIDE	8	Down	0.745509344	0.901277686
3910	PID_KIT_PATHWAY	49	Up	0.74609033	0.901277686
3911	YANG_BREAST_CANCER_ESR1_BULK_DN	21	Up	0.746160042	0.901277686
3912	ZEMBUTSU_SENSITIVITY_TO_MITOMYCIN	11	Up	0.746243993	0.901277686
3913	FOURNIER_ACINAR_DEVELOPMENT_LATE_UP	8	Up	0.746446473	0.901277686
3914	BIOCARTA_CHREBP2_PATHWAY	40	Up	0.746633188	0.901277686
3915	REACTOME_GAP_JUNCTION_DEGRADATION	10	Down	0.746683587	0.901277686
3916	CERIBELLI_GENES_INACTIVE_AND_BOUND_BY_NFY	20	Down	0.74677294	0.901277686

	A	B	C	D	E
3917	KEGG_TIGHT_JUNCTION	113	Up	0.747354652	0.901476581
3918	SA_G2_AND_M_PHASES	8	Down	0.747517935	0.901476581
3919	PID_ARF6_DOWNSTREAM_PATHWAY	15	Down	0.747783279	0.901476581
3920	TSAI_DNAJB4_TARGETS_UP	12	Up	0.74785087	0.901476581
3921	KONDO_PROSTATE_CANCER_WITH_H3K27ME3	47	Up	0.747922448	0.901476581
3922	GENTLES_LEUKEMIC_STEM_CELL_UP	14	Down	0.74808247	0.901476581
3923	CHENG_TAF7L_TARGETS	4	Up	0.748656496	0.901938283
3924	SA_TRKA_RECEPTOR	15	Down	0.749023199	0.902150042
3925	INAMURA_LUNG_CANCER_SCC_SUBTYPES_DN	5	Down	0.749468219	0.902236234
3926	PALOMERO_GSI_SENSITIVITY_UP	7	Down	0.74947666	0.902236234
3927	LEE_BMP2_TARGETS_DN	854	Up	0.749783285	0.902375452
3928	REACTOME_INFLAMMASOMES	11	Down	0.750919895	0.903513243
3929	KEGG_DORSO_VENTRAL_AXIS_FORMATION	21	Down	0.752285429	0.904925828
3930	PETRETTO_BLOOD_PRESSURE_DN	6	Up	0.752486533	0.904937355
3931	REACTOME_ACTIVATION_OF_NMDA_RECEPTOR_UPON_Glutamate_BINDING_AND_POSTSYNAPTIC_EVENTS	33	Down	0.753049797	0.90505394
3932	CHESLER_BRAIN_QTL_CIS	65	Up	0.75307269	0.90505394
3933	BAFNA_MUC4_TARGETS_UP	6	Up	0.753158115	0.90505394
3934	REACTOME_INTEGRATION_OF_ENERGY_METABOLISM	92	Up	0.753390956	0.905103551
3935	NABA_ECM_AFFILIATED	81	Down	0.753660416	0.905197119
3936	MONTERO_THYROID_CANCER_POOR_SURVIVAL_DN	11	Down	0.754043005	0.90542648
3937	PID_S1P_S1P4_PATHWAY	13	Down	0.754577364	0.905837918
3938	PECE_MAMMARY_STEM_CELL_UP	132	Down	7.55E-01	9.06E-01
3939	PID_RET_PATHWAY	37	Up	7.55E-01	9.06E-01
3940	CALVET_IRINOTECAN_SENSITIVE_VS_REVERTED_UP	5	Up	0.756301458	0.907207541
3941	DARWICHE_PAPILLOMA_RISK_HIGH_DN	142	Up	0.756486288	0.907207541
3942	CHICAS_RB1_TARGETS_LOW_SERUM	88	Up	0.75691595	0.907435698
3943	PID_IFNG_PATHWAY	35	Down	0.75716733	0.907435698

	A	B	C	D	E
3944	CHNG_MULTIPLE_MYELOMA_HYPERPLOID_DN	27	Down	0.757252689	0.907435698
3945	KIM_MYC_AMPLIFICATION_TARGETS_UP	181	Up	0.757580785	0.907598684
3946	DEURIG_T_CELL_PROLYMPHOCYTIC_LEUKEMIA_UP	309	Up	0.757776155	0.907602619
3947	PHESSSE_TARGETS_OF_APC_AND_MBD2_UP	13	Down	0.758121728	0.907661828
3948	BIOCARTA_RAC1_PATHWAY	20	Down	0.758210799	0.907661828
3949	REACTOME_GRB2_EVENTS_IN_ERBB2_SIGNALING	18	Up	0.758516204	0.907661828
3950	HEDENFALK_BREAST_CANCER_BRACX_UP	18	Down	0.758593981	0.907661828
3951	TURJANSKI_MAPK14_TARGETS	9	Up	0.75980126	0.908876191
3952	GRAHAM_CML QUIESCENT_VS_NORMAL QUIESCENT_UP	69	Up	0.760022244	0.908910429
3953	SCHLOSSER_MYC_TARGETS_AND_SERUM_RESPONSE_DN	47	Down	0.760926437	0.909484603
3954	DAIRKEE_CANCER_PRONE_RESPONSE_E2	27	Down	0.761004458	0.909484603
3955	KEGG_RIG_I LIKE RECEPTOR SIGNALING_PATHWAY	46	Up	0.761079814	0.909484603
3956	KEGG_TYROSINE_METABOLISM	22	Down	0.761809673	0.910118284
3957	SHI_SPARC_TARGETS_DN	11	Up	0.76199533	0.910118284
3958	CHUNG_BLISTER_CYTOTOXICITY_UP	114	Up	0.762353058	0.910315441
3959	HE_PTEN_TARGETS_UP	15	Up	0.762700458	0.910500168
3960	SIG_PIP3_SIGNALING_IN_CARDIAC_MYOCYTES	63	Up	0.763076903	0.910719466
3961	NIELSEN_MALIGNANT_FIBROUS_HISTIOCYTOMA_DN	17	Down	0.763305024	0.910761676
3962	REACTOME_INSULIN_SYNTHESIS_AND_PROCESSING	18	Down	0.76410134	0.911187375
3963	REACTOME_GAMMA_CARBOXYLATION_TRANSPORT_AND_AMINO_TERMINAL_CLEAVAGE_OF_PROTEINS	4	Up	0.764158859	0.911187375
3964	HUMMERICH_SKIN_CANCER_PROGRESSION_DN	83	Down	0.764299309	0.911187375
3965	PID_A6B1_A6B4_INTEGRIN_PATHWAY	45	Down	0.764695033	0.911187375
3966	MEISSNER_NPC_HCP_WITH_H3K4ME2	411	Up	0.764891928	0.911187375

	A	B	C	D	E
3967	KEGG_FC_EPSILON_RI_SIGNALING_PATHWAY	55	Down	0.765010045	0.911187375
3968	CHENG_RESPONSE_TO_NICKEL_ACETATE	38	Up	0.765087982	0.911187375
3969	REACTOME_IL_RECEPTOR_SHC_SIGNALING	17	Down	0.765252474	0.911187375
3970	BIOCARTA_EPONFKB_PATHWAY	10	Down	0.765397395	0.911187375
3971	CHEN_LUNG_CANCER_SURVIVAL	24	Up	0.766652186	0.912100611
3972	WATANABE_COLON_CANCER_MSI_VS_MSS_UP	19	Up	0.766709284	0.912100611
3973	ST_MYOCYTE_AD_PATHWAY	16	Up	0.766743625	0.912100611
3974	BACOLOD_RESISTANCE_TO_ALKYLATING_AGENT_S_UP	20	Up	0.767830233	0.913163315
3975	GAUSSMANN_MLL_AF4_FUSION_TARGETS_A_UP	171	Up	0.768335772	0.913534606
3976	BROWNE_HCMV_INFECTION_24HR_UP	132	Down	0.768542602	0.913550641
3977	GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_UP	8	Down	0.768843988	0.913653265
3978	BAE_BRCA1_TARGETS_DN	31	Up	0.76918126	0.913653265
3979	SANSOM_APC_MYC_TARGETS	208	Up	7.69E-01	9.14E-01
3980	ABE_INNER_EAR	39	Up	7.69E-01	9.14E-01
3981	BREUHAHN_GROWTH_FACTOR_SIGNALING_IN_LIVER_CANCER	21	Down	0.769595766	0.913653265
3982	WESTON_VEGFA_TARGETS_3HR	57	Down	0.769938919	0.913806063
3983	MATZUK_SPERMATOZOA	76	Down	0.770165058	0.913806063
3984	PEART_HDAC_PROLIFERATION_CLUSTER_UP	56	Down	0.770304666	0.913806063
3985	TAKADA_GASTRIC_CANCER_COPY_NUMBER_UP	7	Down	0.771036664	0.913953317
3986	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN	47	Up	0.771049743	0.913953317
3987	PID_MET_PATHWAY	77	Down	0.771159224	0.913953317
3988	BROWNE_HCMV_INFECTION_8HR_UP	85	Down	0.771202513	0.913953317
3989	LINSLEY_MIR16_TARGETS	201	Up	0.772050283	0.914728582
3990	MUELLER_METHYLATED_IN_GLIOMASTOMA	19	Down	0.773404515	0.915521932
3991	BERNARD_PPAPDC1B_TARGETS_UP	36	Up	0.773448373	0.915521932
3992	PID_PS1_PATHWAY	42	Up	0.773585665	0.915521932
3993	BYSTRYKH_SCP2_QTL	4	Down	0.773795763	0.915521932

	A	B	C	D	E
3994	KEGG_INOSITOL_PHOSPHATE_METABOLISM	47	Up	0.773953708	0.915521932
3995	REACTOME_ACTIVATION_OF_KAINATE_RECEPTORS_UPON_Glutamate_BINDING	26	Down	0.774358531	0.915521932
3996	MASSARWEH_RESPONSE_TO ESTRADIOL	55	Up	0.774417622	0.915521932
3997	LI_INDUCED_T_TO NATURAL_KILLER_DN	91	Down	0.774459292	0.915521932
3998	ZHAN_LATE_DIFFERENTIATION_GENES_DN	13	Up	0.774463738	0.915521932
3999	BIOCARTA_TPO_PATHWAY	21	Up	0.774724602	0.915549036
4000	THEODOROU_MAMMARY_TUMORIGENESIS	22	Down	0.774908364	0.915549036
4001	BYSTROEM_CORRELATED_WITH_IL5_UP	39	Up	0.775144166	0.915549036
4002	BENPORATH_SUZ12_TARGETS	567	Down	0.775261734	0.915549036
4003	HESSON_TUMOR_SUPPRESSOR_CLUSTER_3P21_3	6	Up	0.775755807	0.915764376
4004	PID_CXCR4_PATHWAY	87	Down	0.775831703	0.915764376
4005	REACTOME_PI3K_AKT_ACTIVATION	33	Down	0.776174863	0.915878499
4006	KEGG_PRIMARY_IMMUNODEFICIENCY	16	Down	0.776328581	0.915878499
4007	MARTORIATI_MDM4_TARGETS_NEUROEPITHELIUM_DN	123	Up	0.776734977	0.915878499
4008	REACTOME_CITRIC_ACID_CYCLE_TCA_CYCLE	19	Up	0.776772621	0.915878499
4009	YAMASHITA_SILENCED_BY METHYLATION	6	Down	0.777145864	0.915878499
4010	JUBAN_TARGETS_OF_SPI1_AND_FLI1_UP	108	Down	0.777232786	0.915878499
4011	SATO_SILENCED_BY METHYLATION_IN_PANCREATIC_CANCER_2	33	Up	0.777285245	0.915878499
4012	REACTOME_INITIAL_TRIGGERING_OF_COMPLEMENT	4	Down	0.777658354	0.916089684
4013	REACTOME_SIGNALING_BY_FGFR3_MUTANTS	5	Up	0.778132896	0.916420223
4014	PID_MTOR_4PATHWAY	69	Down	0.779476462	0.917261582
4015	BIOCARTA_DC_PATHWAY	3	Up	0.779811091	0.917261582
4016	SONG_TARGETS_OF_IE86_CMV_PROTEIN	60	Up	0.78033478	0.917261582
4017	CHOI_ATL_CHRONIC_VS_ACUTE_DN	18	Up	0.780411844	0.917261582
4018	ABBUD_LIF_SIGNALING_1_DN	20	Down	0.780972679	0.917261582
4019	PID_IL8_CXCR1_PATHWAY	22	Up	0.781215759	0.917261582
4020	WILLIAMS_ESR2_TARGETS_UP	24	Down	7.81E-01	9.17E-01

	A	B	C	D	E
4021	NIKOLSKY_BREAST_CANCER_10Q22_AMPLICON	8	Down	7.81E-01	9.17E-01
4022	LOCKWOOD_AMPLIFIED_IN_LUNG_CANCER	209	Up	0.781334602	0.917261582
4023	MIKKELSEN_ES_ICP_WITH_H3K27ME3	19	Up	0.781500972	0.917261582
4024	STEIN_ESRRA_TARGETS	515	Up	0.781539848	0.917261582
4025	REACTOME_ORGANIC_CATION_ANION_ZWITTERI ON_TRANSPORT	4	Down	0.78156343	0.917261582
4026	LEE_NEURAL_CREST_STEM_CELL_UP	111	Up	0.781566012	0.917261582
4027	REACTOME_RAP1_SIGNALLING	15	Down	0.781773283	0.917261582
4028	KIM_GERMINAL_CENTER_T_HELPER_DN	19	Down	0.781969731	0.917261582
4029	NADELLA_PRKAR1A_TARGETS_UP	9	Down	0.781976991	0.917261582
4030	KEGG_GLYCOLYSIS_GLUONEOGENESIS	42	Down	0.782147495	0.917261582
4031	MCLACHLAN_DENTAL_CARIES_DN	68	Down	0.782644201	0.917515261
4032	REACTOME_NOD1_2_SIGNALING_PATHWAY	24	Up	0.782752173	0.917515261
4033	KANG_IMMORTALIZED_BY_TERT_UP	68	Up	0.783134531	0.917735778
4034	RAY_TUMORIGENESIS_BY_ERBB2_CDC25A_DN	136	Up	0.783591542	0.91787502
4035	CHEN_ETV5_TARGETS_TESTIS	20	Up	0.783641869	0.91787502
4036	ACEVEDO_LIVER_TUMOR_VS_NORMAL_ADJACEN T_TISSUE_UP	816	Up	0.784500733	0.918085067
4037	GRAESSMANN_RESPONSE_TO_MC_AND_DOXOR UBICIN_UP	546	Up	0.784776991	0.918085067
4038	ALCALA_APOPTOSIS	76	Down	0.784817183	0.918085067
4039	KONDO_PROSTATE_CANCER_HCP_WITH_H3K27M E3	66	Down	0.785011188	0.918085067
4040	LI_DCP2_BOUND_MRNA	89	Up	0.785057194	0.918085067
4041	PID_IL12_STAT4_PATHWAY	16	Up	0.785462892	0.918085067
4042	SESTO_RESPONSE_TO_UV_C1	61	Up	0.785524119	0.918085067
4043	BOYAUULT_LIVER_CANCER_SUBCLASS_G23_UP	51	Up	0.785678199	0.918085067
4044	SA_PTEN_PATHWAY	17	Up	0.785697426	0.918085067
4045	HAHTOLA_SEZARY_SYNDROM_UP	69	Up	0.785764235	0.918085067
4046	KOHOUTEK_CCNT2_TARGETS	49	Down	0.786055434	0.918198252
4047	REACTOME_G_PROTEIN_ACTIVATION	19	Down	0.78698868	0.919061175
4048	KEGG_ASTHMA	9	Up	0.787425437	0.919116904

	A	B	C	D	E
4049	REACTOME_GRB2_SOS_PROVIDES_LINKAGE_TO_MAPK_SIGNALING_FOR_INTERGRINS_	10	Up	0.787425445	0.919116904
4050	LEE_LIVER_CANCER_ACOX1_DN	37	Up	0.787817292	0.919147817
4051	REACTOME_TRAF6_MEDIATED_INDUCION_OF_NFKB_AND_MAP_KINASES_UPON_TLR7_8_OR_9_ACTIVATION	67	Up	0.787840986	0.919147817
4052	PID_ERBB2_ERBB3_PATHWAY	40	Down	0.788055526	0.919171158
4053	REACTOME_CELL_DEATH_SIGNALLING_VIA_NRA_GE_NRF1_AND_NAIP1	56	Up	0.78849299	0.919454437
4054	IVANOVA_HEMATOPOIESIS_STEM_CELL_AND_PROGENITOR	577	Up	0.789050265	0.919456634
4055	SCIAN_CELL_CYCLE_TARGETS_OF_TP53_AND_TP73_UP	9	Up	0.78920224	0.919456634
4056	AUNG_GASTRIC_CANCER	40	Up	0.789928631	0.919456634
4057	MATZUK_PREOVULATORY_FOLLICLE	7	Up	0.790079394	0.919456634
4058	BROWNE_HCMV_INFECTION_30MIN_DN	113	Up	0.790216652	0.919456634
4059	NUYTEN_EZH2_TARGETS_DN	965	Down	0.790461182	0.919456634
4060	MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP	291	Up	0.79047835	0.919456634
4061	LU_TUMOR_ANGIOGENESIS_UP	23	Down	7.90E-01	9.19E-01
4062	BOYALT_LIVER_CANCER_SUBCLASS_G1_UP	109	Down	7.91E-01	9.19E-01
4063	LU_TUMOR_VASCULATURE_UP	24	Up	0.79069514	0.919456634
4064	VANASSE_BCL2_TARGETS_DN	61	Up	0.790889135	0.919456634
4065	BIOCARTA_GABA_PATHWAY	8	Down	0.790978186	0.919456634
4066	BARIS_THYROID_CANCER_UP	23	Down	0.791024596	0.919456634
4067	REACTOME_HORMONE_LIGAND_BINDING_RECEPTORS	1	Up	0.791223832	0.919462028
4068	REACTOME_TRAF6_MEDIATED_NFKB_ACTIVATION	18	Up	0.791914008	0.920037789
4069	DARWICHE_SKIN_TUMOR_PROMOTER_DN	144	Down	0.792173268	0.920055709
4070	TSAI_RESPONSE_TO_IONIZING_RADIATION	125	Down	0.792318874	0.920055709
4071	LEIN_NEURON_MARKERS	60	Up	0.792835991	0.920323713

	A	B	C	D	E
4072	KEGG_B_CELL_RECEPTOR_SIGNALING_PATHWAY	64	Up	0.792939225	0.920323713
4073	REACTOME_CYTOKINE_SIGNALING_IN_IMMUNE_SYSTEM	198	Up	0.79348339	0.920541
4074	PID_BMP_PATHWAY	40	Down	0.793789071	0.920541
4075	ZWANG_TRANSIENTLY_UP_BY_2ND_EGF_PULSE_ONLY	837	Up	0.793793098	0.920541
4076	LIANG_SILENCED_BY_METHYLATION_2	27	Down	0.79390573	0.920541
4077	CALVET_IRINOTECAN_SENSITIVE_VS_REVERTED_DN	4	Up	0.795711246	0.922253412
4078	MORI_PLASMA_CELL_UP	49	Up	0.795827935	0.922253412
4079	DIRMEIER_LMP1_RESPONSE_LATE_DN	26	Down	0.796095277	0.922253412
4080	REACTOME_ACETYLCHOLINE_BINDING_AND_DOWNSSTREAM_EVENTS	8	Up	0.796381795	0.922253412
4081	REACTOME_HIGHLY_CALCIIUM_PERMEABLE_POST_SYNAPTIC_NICOTINIC_ACETYLCHOLINE_RECEPTOR_S	8	Up	0.796381795	0.922253412
4082	KEGG_INSULIN_SIGNALING_PATHWAY	120	Up	0.796553688	0.922253412
4083	HUTTMANN_B CLL_POOR_SURVIVAL_UP	224	Up	0.797433996	0.922822895
4084	GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_UP	1002	Up	0.797436165	0.922822895
4085	KIM_RESPONSE_TO_TSA_AND_DECITABINE_DN	12	Down	0.797978364	0.923224233
4086	CHIBA_RESPONSE_TO_TSA_UP	43	Up	0.798312702	0.923384949
4087	YANG_BCL3_TARGETS_UP	293	Up	0.798574436	0.923461627
4088	GENTILE_UV_LOW_DOSE_DN	63	Up	0.799092337	0.923618161
4089	PID_SMAD2_3PATHWAY	17	Down	0.799150679	0.923618161
4090	STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN	498	Up	0.799296224	0.923618161
4091	KUNINGER_IGF1_VS_PDGF_B_TARGETS_UP	53	Up	0.79958348	0.923724192
4092	DACOSTA_UV_RESPONSE_VIA_ERCC3_TTD_DN	80	Down	0.800109124	0.924105502
4093	LEE_LIVER_CANCER	19	Down	0.801204808	0.925144848
4094	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_6	5	Down	0.802741805	0.926693142

	A	B	C	D	E
4095	KEGG_ADHERENS_JUNCTION	72	Down	0.803064747	0.926839505
4096	REACTOME_P75_NTR_RECEPTOR_MEDIATED_SIG NALLING	75	Down	0.803829868	0.926872072
4097	NAKAMURA_LUNG_CANCER	7	Up	0.803875253	0.926872072
4098	DODD_NASOPHARYNGEAL_CARCINOMA_DN	1267	Down	0.803883313	0.926872072
4099	REACTOME_DEGRADATION_OF_THE_EXTRACELL ULAR_MATRIX	14	Up	0.803952138	0.926872072
4100	BIOCARTA_ERK5_PATHWAY	15	Down	0.804073782	0.926872072
4101	REACTOME_SYNTHESIS_OF_PIPS_AT_THE_PLAS MA_MEMBRANE	26	Down	0.804576416	0.92722526
4102	ONDER_CDH1_TARGETS_3_DN	31	Up	8.06E-01	9.29E-01
4103	STEIN_ESRRA_TARGETS_DN	100	Down	8.06E-01	9.29E-01
4104	TOMLINS_PROSTATE_CANCER_UP	39	Down	0.806466804	0.928566735
4105	LANDIS_BREAST_CANCER_PROGRESSION_UP	39	Up	0.806526535	0.928566735
4106	FIGUEROA_AML_METHYLATION_CLUSTER_6_DN	19	Up	0.80676813	0.928618615
4107	BRUINS_UVC_RESPONSE_VIA_TP53_GROUP_C	74	Up	0.807012311	0.928673446
4108	AFFAR_YY1_TARGETS_DN	183	Up	0.807210754	0.92867563
4109	MORI_SMALL_PRE_BII_LYMPHOCYTE_UP	72	Up	0.807480302	0.928759598
4110	FLECHNER_PBL_KIDNEY_TRANSPLANT_OK_VS_D ONOR_UP	142	Up	0.807809716	0.928912365
4111	KEGG_VEGF_SIGNALING_PATHWAY	62	Down	0.808808828	0.92915536
4112	SUZUKI_RESPONSE_TO_TSA_AND_DECITABINE_1 A	12	Up	0.809035204	0.92915536
4113	WANG_RESPONSE_TO_BEXAROTENE_UP	27	Up	0.809038153	0.92915536
4114	SCHLESINGER_METHYLATED_IN_COLON_CANCER BYSTRYKH_HEMATOPOIESIS_STEM_CELL_SCP2_Q	6	Up	0.809295645	0.92915536
4115	TL_TRANS	17	Down	0.809466	0.92915536
4116	ACEVEDO_METHYLATED_IN_LIVER_CANCER_DN	471	Up	0.80955024	0.92915536
4117	BONOME_OVARIAN_CANCER_SURVIVAL_SUBOP TIMAL_DEBULKING	440	Down	0.809675943	0.92915536

	A	B	C	D	E
4118	DING_LUNG_CANCER_EXPRESSION_BY_COPY_NUMBER	100	Down	0.80969493	0.92915536
4119	ACEVEDO_LIVER_CANCER_WITH_H3K27ME3_DN	132	Up	0.80986425	0.92915536
4120	REACTOME_REGULATION_OF_INSULIN_SECRETION	68	Up	0.809987498	0.92915536
4121	FERRANDO_TAL1_NEIGHBORS	9	Up	0.810367378	0.929208204
4122	MCCLUNG_DELTA_FOSB_TARGETS_2WK	42	Up	0.810560633	0.929208204
4123	MIKKELSEN_NPC_LCP_WITH_H3K4ME3	42	Up	0.810692418	0.929208204
4124	SCIBETTA_KDM5B_TARGETS_DN	79	Down	0.810935941	0.929208204
4125	HU_ANGIOGENESIS_DN	34	Down	0.811016853	0.929208204
4126	KORKOLA_EMBRYONAL_CARCINOMA	13	Up	0.811239777	0.92923829
4127	VALK_AML_CLUSTER_16	22	Up	0.811783438	0.929635663
4128	LINDGREN_BLADDER_CANCER_CLUSTER_1_DN	336	Up	0.812355911	0.930047697
4129	MORI_PRE_BI_LYMPHOCYTE_UP	72	Down	0.812536908	0.930047697
4130	PURBEY_TARGETS_OF_CTBP1_NOT_SATB1_UP	275	Down	0.812835235	0.930059938
4131	YANG_BCL3_TARGETS_DN	5	Down	0.812941279	0.930059938
4132	BROWNE_HCMV_INFECTION_12HR_UP	93	Down	0.814024603	0.931073892
4133	NIKOLSKY_OVERCONNECTED_IN_BREAST_CANCER	14	Up	0.814825221	0.931539309
4134	NIELSEN_GIST_AND_SYNOVIAL_SARCOMA_UP	16	Up	0.8149869	0.931539309
4135	REACTOME_INHIBITION_OF_VOLTAGE_GATED_CACI2_CHANNELS_VIA_GBETA_GAMMA_SUBUNITS	17	Down	0.815155147	0.931539309
4136	BIOCARTA_SKP2E2F_PATHWAY	10	Up	0.815307506	0.931539309
4137	BILBAN_B_CLL_LPL_DN	35	Up	0.815417266	0.931539309
4138	KEGG_RENAL_CELL_CARCINOMA	64	Up	0.815827972	0.931783216
4139	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_5	4	Down	0.816107586	0.931877319
4140	WANG_RECURRENT_LIVER_CANCER_UP	20	Down	0.816777503	0.932416937
4141	RATTENBACHER_BOUND_BY_CELF1	357	Down	0.817134924	0.932539531
4142	BARRIER_CANCER_RELAPSE_NORMAL_SAMPLE_DN	31	Up	0.817279619	0.932539531
4143	BIOCARTA_MYOSIN_PATHWAY	29	Down	8.18E-01	9.33E-01

	A	B	C	D	E
4144	GRADE_COLON_CANCER_DN	26	Up	8.18E-01	9.33E-01
4145	REACTOME_TRANSCRIPTION_COUPLED_NER_TC_NER	41	Down	0.817884474	0.932554088
4146	REACTOME_IL_3_5_AND_GM-CSF_SIGNALING	32	Down	0.81815082	0.93263272
4147	FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_DN	23	Up	0.818772513	0.93301424
4148	PID_GMCSF_PATHWAY	33	Up	0.819043175	0.93301424
4149	DORMOY_ELAVL1_TARGETS	14	Down	0.819197271	0.93301424
4150	BOWIE_RESPONSE_TO_EXTRACELLULAR_MATRIX	14	Up	0.819275361	0.93301424
4151	NIKOLSKY_BREAST_CANCER_17P11_AMPLICON	7	Down	0.81998298	0.933595079
4152	POMEROY_MEDULLOBLASTOMA_PROGNOSIS_UP	39	Down	0.820199852	0.933617032
4153	KORKOLA_SEMINOMA_UP	42	Up	0.82069405	0.933803872
4154	TERAO_AOX4_TARGETS_HG_DN	5	Up	0.820763611	0.933803872
4155	FONTAINE_FOLLICULAR_THYROID_ADENOMA_DN	52	Up	0.821069907	0.933803872
4156	DOANE_RESPONSE_TO_ANDROGEN_DN	221	Up	0.821203008	0.933803872
4157	BHAT_ESR1_TARGETS_NOT_VIA_AKT1_DN	75	Up	0.82136446	0.933803872
4158	DACOSTA_UV_RESPONSE_VIA_ERCC3_TTD_UP	60	Up	0.821822022	0.933803872
4159	KEGG_P53_SIGNALING_PATHWAY	63	Up	0.821830292	0.933803872
4160	BECKER_TAMOXIFEN_RESISTANCE_DN	40	Up	0.821945038	0.933803872
4161	KYNG_ENVIRONMENTAL_STRESS_RESPONSE_NOT_BY_4NQO_IN_OLD	12	Up	0.822988664	0.934758785
4162	REACTOME_NGF_SIGNALLING_VIA_TRKA_FROM_THE_PLASMA_MEMBRANE	126	Up	0.823181229	0.934758785
4163	PURBEY_TARGETS_OF_CTBP1_AND_SATB1_DN	148	Down	0.823851492	0.935228415
4164	SANA_RESPONSE_TO_IFNG_DN	79	Down	0.823990665	0.935228415
4165	AMIT_EGF_RESPONSE_480_MCF10A	40	Up	0.825021644	0.935759788
4166	STEIN_ESRRA_TARGETS_RESPONSIVE_TO_ESTROGEN_UP	29	Up	0.825039731	0.935759788
4167	UROSEVIC_RESPONSE_TO_IMIQUIMOD	13	Up	0.825137579	0.935759788

	A	B	C	D	E
4168	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_17	14	Down	0.825251013	0.935759788
4169	NAKAMURA_BRONCHIAL_AND_BRONCHIOLAR_E PITHELIA	3	Up	0.825958513	0.936337326
4170	BRACHAT_RESPONSE_TO_CISPLATIN	21	Down	0.826878845	0.936783436
4171	PEART_HDAC_PROLIFERATION_CLUSTER_DN	70	Down	0.826952748	0.936783436
4172	SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM4	177	Up	0.827129502	0.936783436
4173	DARWICHE_PAPILLOMA_RISK_HIGH_VS_LOW_UP	6	Up	0.827145078	0.936783436
4174	MOOTHA_PGC	394	Up	0.827565821	0.937035347
4175	MATZUK_FERTILIZATION	6	Up	0.828161382	0.937249631
4176	REACTOME_SIGNAL_REGULATORY_PROTEIN_SIR P_FAMILY_INTERACTIONS	8	Down	0.828300585	0.937249631
4177	REACTOME_ADP_SIGNALLING_THROUGH_P2RY1 2	16	Down	0.82835015	0.937249631
4178	GARY_CD5_TARGETS_DN	411	Up	0.828837634	0.937576687
4179	RAMJAUN_APOPTOSIS_BY_TGFB1_VIA_SMAD4_ DN	8	Down	0.829663585	0.938286367
4180	PID_BARD1_PATHWAY	29	Up	0.829916779	0.938348117
4181	HOSHIDA_LIVER_CANCER_SUBCLASS_S2	110	Up	0.830381658	0.938649123
4182	ZHANG_BREAST_CANCER_PROGENITORS_UP	421	Up	0.831082894	0.939217095
4183	REACTOME_G_BETA_GAMMA_SIGNALLING_THR OUGH_PLC_BETA	16	Up	0.831291658	0.93922838
4184	PARENT_MTOR_SIGNALING_UP	511	Up	8.32E-01	9.39E-01
4185	REACTOME_GAB1_SIGNALOSOME	36	Up	8.32E-01	9.40E-01
4186	WEIGEL_OXIDATIVE_STRESS_RESPONSE	32	Up	0.832851926	0.940316691
4187	REACTOME_RESPIRATORY_ELECTRON_TRANSPOR T	74	Down	0.833062499	0.940329744
4188	MCCABE_HOXC6_TARGETS_UP	7	Down	0.833344929	0.94039756
4189	YOSHIMURA_MAPK8_TARGETS_UP	848	Down	0.833520631	0.94039756
4190	REACTOME_GPCR_DOWNSTREAM_SIGNALING	234	Up	0.834046455	0.940584166
4191	PID_ANTHRAX_PATHWAY	11	Down	0.834196023	0.940584166
4192	BIOCARTA_LONGEVITY_PATHWAY	11	Up	0.834283226	0.940584166

	A	B	C	D	E
4193	FAELT_B_CLL_WITH_VH3_21_DN	48	Down	0.835260929	0.941030643
4194	REACTOME_DARPP_32_EVENTS	23	Up	0.835362053	0.941030643
4195	ZHENG_FOXP3_TARGETS_IN_THYMUS_UP	177	Down	0.835389056	0.941030643
4196	REACTOME_SYNTHESIS_OF_PA	19	Up	0.835475883	0.941030643
4197	NIKOLSKY_BREAST_CANCER_19Q13.1_AMPLICON	20	Down	0.835678884	0.941034968
4198	SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_2FC_UP	11	Up	0.83605569	0.941234962
4199	KEGG_TASTE_TRANSDUCTION	21	Up	0.836563682	0.941582514
4200	REACTOME_FGFR4_LIGAND_BINDING_AND_ACTIVATION	6	Down	0.837062158	0.941666021
4201	SUMI_HNF4A_TARGETS	11	Up	0.8371956	0.941666021
4202	BONOME_OVARIAN_CANCER_POOR_SURVIVAL_UP	29	Up	0.837235757	0.941666021
4203	CASTELLANO_HRAS_AND_NRAS_TARGETS_UP	4	Up	0.837449354	0.941682103
4204	YAGI_AML_WITH_T_9_11_TRANSLOCATION	104	Up	0.837999477	0.942076499
4205	ALONSO_METASTASIS_EMT_DN	1	Down	0.83857777	0.942333902
4206	TUOMISTO_TUMOR_SUPPRESSION_BY_COL13A1_DN	4	Down	0.839161628	0.942333902
4207	BIOCARTA_BARR_MAPK_PATHWAY	11	Down	0.839238325	0.942333902
4208	CHEN_HOXA5_TARGETS_9HR_DN	38	Up	0.839482316	0.942333902
4209	MOOTHA_GLUCONEOGENESIS	25	Up	0.83955231	0.942333902
4210	ELVIDGE_HYPOXIA_DN	142	Down	0.840174432	0.942333902
4211	PID_IL2_STAT5_PATHWAY	22	Up	0.840222027	0.942333902
4212	PID_P38_MK2_PATHWAY	19	Down	0.840416786	0.942333902
4213	VANTVEER_BREAST_CANCER_POOR_PROGNOSIS	47	Down	0.840428648	0.942333902
4214	KREPEL_CD99_TARGETS_UP	5	Up	0.840518001	0.942333902
4215	KIM_WT1_TARGETS_8HR_DN	104	Down	0.840943966	0.942333902
4216	REACTOME_SIGNALLING_TO_ERKS	34	Down	0.840997244	0.942333902
4217	DARWICHE_PAPILLOMA_RISK_LOW_DN	132	Down	0.841622223	0.942333902

	A	B	C	D	E
4218	REACTOME_SHC1_EVENTS_IN_ERBB4_SIGNALING	16	Down	0.841797091	0.942333902
4219	JIANG_AGING_HYPOTHALAMUS_DN	39	Up	0.842031839	0.942333902
4220	REACTOME_PI_METABOLISM	42	Up	0.842418402	0.942333902
4221	OSADA_ASCL1_TARGETS_UP	32	Down	0.842658396	0.942333902
4222	DACOSTA_ERCC3_ALLELE_XPCS_VS_TTD_UP	24	Up	0.842740433	0.942333902
4223	REACTOME_DOUBLE_STRAND_BREAK_REPAIR	22	Down	0.842942152	0.942333902
4224	BOWIE_RESPONSE_TO_TAMOXIFEN	13	Down	0.843062824	0.942333902
4225	HUPER_BREAST_BASAL_VS_LUMINAL_UP	29	Down	8.43E-01	9.42E-01
4226	YAGI_AML_WITH_INV_16_TRANSLOCATION	347	Up	8.43E-01	9.42E-01
4227	REACTOME_INCRETIN_SYNTHESIS_SECRETION_AND_INACTIVATION	9	Up	0.843205998	0.942333902
4228	REACTOME_SYNTHESIS_SECRETION_AND_INACTIVATION_OF_GLP1	9	Up	0.843205998	0.942333902
4229	BIOCARTA_MEF2D_PATHWAY	17	Down	0.843214336	0.942333902
4230	SATO_SILENCED_BY_DEACETYLATION_IN_PANCREATIC_CANCER	35	Down	0.843627083	0.942571126
4231	REACTOME_LAGGING_STRAND_SYNTHESIS	19	Up	0.843825579	0.942571126
4232	GINESTIER_BREAST_CANCER_20Q13_AMPLIFICATION_UP	108	Up	0.844087874	0.942641268
4233	YANG_BREAST_CANCER_ESR1_LASER_UP	31	Down	0.844667364	0.942682786
4234	LIAO_METASTASIS	503	Up	0.844688496	0.942682786
4235	REACTOME_CYTOSOLIC_SULFONATION_OF_SMALL_MOLECULES	9	Up	0.84472358	0.942682786
4236	IWANAGA_CARCINOGENESIS_BY_KRAS_DN	95	Down	0.844943182	0.942705203
4237	BANDRES_RESPONSE_TO_CARMUSTIN_WITHOUT_MGMT_24HR_DN	9	Up	0.845440226	0.94290103
4238	YIH_RESPONSE_TO_ARSENITE_C1	22	Up	0.845517812	0.94290103
4239	BENPORATH_ES_WITH_H3K27ME3	587	Down	0.846075684	0.942995291
4240	PID_ALPHA_SYNUCLEIN_PATHWAY	29	Up	0.84624905	0.942995291
4241	VERNOCHET_ADIPOGENESIS	8	Up	0.846294955	0.942995291
4242	RIZKI_TUMOR_INVASIVENESS_3D_DN	213	Down	0.846847548	0.942995291

	A	B	C	D	E
4243	BIOCARTA_P27_PATHWAY	13	Up	0.846859276	0.942995291
4244	LU_TUMOR_VASCULATURE_DN	7	Up	0.846872425	0.942995291
4245	IWANAGA_E2F1_TARGETS_INDUCED_BY_SERUM	30	Up	0.846999368	0.942995291
4246	WONG_ENDMETRIUM_CANCER_UP	8	Down	0.847294935	0.943102136
4247	WANG_LSD1_TARGETS_DN	31	Down	0.847739852	0.94337513
4248	LEIN_CEREBELLUM_MARKERS	66	Up	0.847969388	0.943408372
4249	MEISSNER_ES_ICP_WITH_H3K4ME3_AND_H3K27 ME3	9	Down	0.848568347	0.943852505
4250	MIKKELSEN_NPC_WITH_LCP_H3K27ME3	2	Down	0.848782549	0.943868567
4251	REACTOME_REGULATION_OF_RHEB_GTPASE_AC TIVITY_BY_AMPK	9	Up	0.849021437	0.943912068
4252	CAFFAREL_RESPONSE_TO_THC_24HR_3_UP	7	Down	0.849231704	0.943923736
4253	YANAGISAWA_LUNG_CANCER_RECURRENCE	7	Down	0.849673481	0.944192662
4254	REACTOME_PROSTACYCLIN_SIGNALLING_THROU GH_PROSTACYCLIN_RECEPTOR	14	Up	0.849932176	0.944258061
4255	ALCALAY_AML_BY_NPM1_LOCALIZATION_DN	157	Up	0.850503116	0.944409287
4256	YE_METASTATIC_LIVER_CANCER	19	Down	0.850573563	0.944409287
4257	REACTOME_PYRUVATE_METABOLISM_AND_CITRI C_ACID_TCA_CYCLE	38	Up	0.850667921	0.944409287
4258	BENPORATH_NANOG_TARGETS	960	Down	0.852526635	0.945697391
4259	PARK_HSC_AND_MULTIPOTENT_PROGENITORS	47	Down	0.852575844	0.945697391
4260	REACTOME_GAP_JUNCTION_TRAFFICKING	16	Up	0.852796497	0.945697391
4261	FARMER_BREAST_CANCER_CLUSTER_4	15	Down	0.85289432	0.945697391
4262	VERRECCHIA_RESPONSE_TO_TGFB1_C6	5	Up	0.8530255	0.945697391
4263	SEIDEN_MET_SIGNALING	18	Down	0.853170118	0.945697391
4264	PEDRIOLI_MIR31_TARGETS_UP	137	Down	0.853426557	0.945697391
4265	GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_D N	1706	Up	0.853613443	0.945697391
4266	KEGG_CALCIUM_SIGNALING_PATHWAY	122	Down	8.54E-01	9.46E-01
4267	MA_MYELOID_DIFFERENTIATION_UP	32	Down	8.54E-01	9.46E-01
4268	RODRIGUES_DCC_TARGETS_DN	110	Up	0.854690115	0.946189318

	A	B	C	D	E
4269	REACTOME_SIGNALING_BY_SCF_KIT	71	Up	0.854862186	0.946189318
4270	BIOCARTA_CLASSIC_PATHWAY	6	Down	0.855411349	0.946189318
4271	ZWANG_TRANSIENTLY_UP_BY_1ST_EGF_PULSE_ONLY	1343	Down	0.855792382	0.946189318
4272	JI_CARCINOGENESIS_BY_KRAS_AND_STK11_UP	5	Down	0.856064327	0.946189318
4273	REACTOME_G1_S_TRANSITION	105	Up	0.856065703	0.946189318
4274	FUNG_IL2_SIGNALING_1	9	Down	0.856120654	0.946189318
4275	BIOCARTA_ETS_PATHWAY	17	Down	0.856199508	0.946189318
4276	SCHAEFFER_SOX9_TARGETS_IN_PROSTATE_DEVELOPMENT_UP	16	Down	0.85626932	0.946189318
4277	LI_PROSTATE_CANCER_EPIGENETIC	20	Up	0.856276301	0.946189318
4278	REACTOME_ASSEMBLY_OF_THE_PRE_REPLICATIVE_COMPLEX	62	Down	0.856813575	0.946350404
4279	BURTON_ADIPOGENESIS_5	121	Up	0.85693572	0.946350404
4280	MUELLER_COMMON_TARGETS_OF_AML_FUSIONS_DN	22	Up	0.857180985	0.946350404
4281	REACTOME_G0_AND_EARLY_G1	23	Down	0.857223223	0.946350404
4282	LUDWICZEK_TREATING_IRON_OVERLOAD	4	Up	0.858399887	0.947064349
4283	MCCLUNG_CREB1_TARGETS_DN	49	Down	0.858422925	0.947064349
4284	REACTOME_GABA_SYNTHESIS_RELEASE_REUPTAKE_AND_DEGRADATION	12	Down	0.858471239	0.947064349
4285	BRACHAT_RESPONSE_TO_CAMPTOTHECIN_UP	28	Up	0.858706912	0.947103212
4286	REACTOME_SIGNALING_BY_EGFR_IN_CANCER	102	Down	0.85916811	0.94739074
4287	GENTILE_UV_RESPONSE_CLUSTER_D7	40	Down	0.859665596	0.947718138
4288	CEBALLOS_TARGETS_OF_TP53_AND_MYC_DN	30	Down	0.860335587	0.948154562
4289	REACTOME_RIP_MEDIATED_NFKB_ACTIVATION_VIA_DAI	13	Down	0.86052221	0.948154562
4290	KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY	74	Up	0.860663474	0.948154562
4291	DACOSTA_UV_RESPONSE_VIA_ERCC3_UP	296	Up	0.861348316	0.948687831
4292	LOPES_METHYLATED_IN_COLON_CANCER_UP	13	Up	0.861858308	0.949028316
4293	HAHTOLA_CTCL_CUTANEOUS	19	Up	0.862393475	0.949313405

	A	B	C	D	E
4294	GROSS_HYPOXIA_VIA_HIF1A_UP	75	Down	0.862519036	0.949313405
4295	REACTOME_RNA_POL_I_TRANSCRIPTION_TERMINATION	19	Down	0.862917606	0.949331258
4296	KEGG_CELL_ADHESION_MOLECULES_CAMS	87	Up	0.862967521	0.949331258
4297	REACTOME_ANTIGEN_ACTIVATES_B_CELL_RECEPTOR_LEADING_TO_GENERATION_OF_SECOND_MESSENGERS	24	Up	0.863154472	0.949331258
4298	GOUYER_TATI_TARGETS_UP	5	Down	0.863508942	0.949331258
4299	SAKAI_TUMOR_INFILTRATING_MONOCYTES_DN	73	Up	0.863539841	0.949331258
4300	GUTIERREZ_MULTIPLE_MYELOMA_UP	35	Down	0.863768789	0.949362068
4301	KEGG_NOD_LIKE_RECEPTOR_SIGNALING_PATHWAY	38	Down	0.864046123	0.949401586
4302	PID_TGFBR_PATHWAY	52	Down	0.864206607	0.949401586
4303	KEGG_NON_SMALL_CELL_LUNG_CANCER	49	Up	0.865351539	0.949937806
4304	SEIKE_LUNG_CANCER_POOR_SURVIVAL	2	Down	0.865351707	0.949937806
4305	KIM_PTEN_TARGETS_DN	5	Down	0.865359085	0.949937806
4306	TURASHVILI_BREAST_CARCINOMA_DUCTAL_VS_LOBULAR_UP	16	Down	0.865939742	0.949937806
4307	MARIADASON_RESPONSE_TO_BUTYRATE_CURCUMIN_SULINDAC_TSA_8	13	Down	8.66E-01	9.50E-01
4308	INAMURA_LUNG_CANCER_SCC_UP	10	Up	8.66E-01	9.50E-01
4309	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_1	1	Up	0.866270126	0.949937806
4310	MULLIGAN_NTF3_SIGNALING_VIA_INSR_AND_IGF1R_UP	21	Up	0.866480975	0.949937806
4311	REACTOME_CREATION_OF_C4_AND_C2_ACTIVATORS	2	Up	0.86663023	0.949937806
4312	KEGG_PURINE_METABOLISM	134	Up	0.86670516	0.949937806
4313	ZIRN_TRETINOIN_RESPONSE_DN	4	Up	0.867218304	0.950230195
4314	MATZUK_MALE_REPRODUCTION_SERTOLI	18	Up	0.867374144	0.950230195
4315	MOOTHA_MITOCHONDRIA	413	Down	0.867960465	0.950652109
4316	PID_ATR_PATHWAY	38	Up	0.86849441	0.951016474

	A	B	C	D	E
4317	REACTOME_ADAPTIVE_IMMUNE_SYSTEM	419	Down	0.868805859	0.95113709
4318	REACTOME_OXYGEN_DEPENDENT_PROLINE_HYDROXYLATION_OF_HYPOXIA_INDUCIBLE_FACTOR_ALPHA	16	Up	0.869153576	0.951297347
4319	NING_CHRONIC_OBSTRUCTIVE_PULMONARY_DISEASE_UP	131	Up	0.869750133	0.951560715
4320	BROWNE_HCMV_INFECTION_4HR_UP	41	Up	0.869796979	0.951560715
4321	BIOCARTA_MET_PATHWAY	35	Up	0.870593353	0.951843582
4322	DUAN_PRDM5_TARGETS	65	Up	0.871057051	0.951843582
4323	REACTOME_REGULATION_OF_BETA_CELL_DEVELOPMENT	15	Down	0.871097934	0.951843582
4324	BOSCO_EPITHELIAL_DIFFERENTIATION_MODULE	31	Down	0.87118047	0.951843582
4325	VALK_AML_WITH_11Q23_REARRANGED	16	Up	0.871376498	0.951843582
4326	REACTOME_G_BETA_GAMMA_SIGNALING_THROUGH_PI3KGAMMA	19	Down	0.87151199	0.951843582
4327	PETRETTO_HEART_MASS_QTL_CIS_DN	20	Down	0.871953562	0.951843582
4328	BILD_CTNNB1_ONCOGENIC_SIGNATURE	76	Up	0.872022497	0.951843582
4329	VANHARANTA_UTERINE_FIBROID_WITH_7Q_DELETION_DN	35	Up	0.872167284	0.951843582
4330	PID_RB_1PATHWAY	53	Down	0.872433941	0.951843582
4331	KEGG_MISMATCH_REPAIR	22	Up	0.872468494	0.951843582
4332	IGLESIAS_E2F_TARGETS_DN	7	Down	0.872472921	0.951843582
4333	GALE_APL_WITH_FLT3_MUTATED_DN	15	Down	0.872889177	0.952077877
4334	MAEKAWA_ATF2_TARGETS	12	Down	0.874527778	0.953446467
4335	REACTOME_INTEGRIN_ALPHAIIIB_BETA3_SIGNALING	22	Up	0.874599198	0.953446467
4336	LEE_LIVER_CANCER_SURVIVAL_DN	169	Up	0.874749298	0.953446467
4337	LU_AGING_BRAIN_DN	138	Up	0.875854596	0.954431035
4338	JI_RESPONSE_TO_FSH_DN	57	Up	0.876098982	0.954477217
4339	REACTOME_ACTIVATION_OF_BH3_ONLY_PROTEINS	16	Up	0.876699716	0.95459499

	A	B	C	D	E
4340	HAHTOLA_MYCOSIS_FUNGOIDES_UP	14	Down	0.87673647	0.95459499
4341	VANTVEER_BREAST_CANCER_ESR1_UP	151	Down	0.876928471	0.95459499
4342	ALONSO_METASTASIS_DN	15	Up	0.877177648	0.95459499
4343	IIZUKA_LIVER_CANCER_PROGRESSION_L1_G1_UP	19	Up	0.87748647	0.95459499
4344	RUAN_RESPONSE_TO_TNF_TROGLITAZONE_UP	10	Up	0.877588173	0.95459499
4345	SCHMAHL_PDGF_SIGNALING	9	Up	0.877621298	0.95459499
4346	ZEMBUTSU_SENSITIVITY_TO_FLUOROURACIL	13	Down	0.877989329	0.954703696
4347	SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX4_DN	32	Up	0.878341469	0.954703696
4348	TIAN_BHLHA15_TARGETS	15	Down	8.78E-01	9.55E-01
4349	KEGG_ALZHEIMERS_DISEASE	149	Down	8.79E-01	9.55E-01
4350	WANG_TUMOR_INVASIVENESS_UP	356	Down	0.879039019	0.95496
4351	KLEIN_PRIMARY EFFUSION_LYMPHOMA_UP	44	Up	0.879169524	0.95496
4352	GRESHOCK_CANCER_COPY_NUMBER_UP	274	Down	0.879394268	0.954984582
4353	SHEPARD_BMYB_MORPHOLINO_UP	180	Up	0.879694198	0.955083961
4354	REACTOME_PROLACTIN_RECEPTOR_SIGNALING	9	Up	0.880181701	0.955083961
4355	NUTT_GBM_VS_AO_GLIOMA_UP	43	Up	0.880219659	0.955083961
4356	SCHWAB_TARGETS_OF_BMYB_POLYMORPHIC_VARIANTS_DN	14	Down	0.880294318	0.955083961
4357	REACTOME_MEMBRANE_BINDING_AND_TARGETING_OF_GAG_PROTEINS	9	Down	0.880657045	0.955258158
4358	KEGG_CHEMOKINE_SIGNALING_PATHWAY	121	Up	0.880877864	0.955278382
4359	IVANOVA_HEMATOPOIESIS_EARLY_PROGENITOR	475	Up	0.881573189	0.95581306
4360	KONG_E2F1_TARGETS	8	Up	0.88192862	0.955979061
4361	KIM_MYCL1_AMPLIFICATION_TARGETS_UP	13	Down	0.882136398	0.955984973
4362	BIOCARTA_HER2_PATHWAY	19	Up	0.883652795	0.956389132
4363	STREICHER_LSM1_TARGETS_DN	14	Up	0.883817262	0.956389132
4364	POMEROY_MEDULLOBLASTOMA_DESMOPLASIC_VS_CLASSIC_DN	54	Down	0.88402293	0.956389132
4365	TESAR_ALK_TARGETS_HUMAN_ES_4D_DN	6	Up	0.884412977	0.956389132

	A	B	C	D	E
4366	BIOCARTA_COMP_PATHWAY	7	Down	0.884488737	0.956389132
4367	OXFORD_RALA_TARGETS_DN	10	Down	0.884643482	0.956389132
4368	BIOCARTA_EGFR_SMRTE_PATHWAY	10	Down	0.884913086	0.956389132
4369	BIOCARTA_IL7_PATHWAY	13	Down	0.885198246	0.956389132
4370	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_24	9	Down	0.885356934	0.956389132
4371	REACTOME_PD1_SIGNALING	8	Down	0.885597072	0.956389132
4372	VALK_AML_WITH_FLT3_ITD	28	Up	0.885698936	0.956389132
4373	YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_15	29	Down	0.885791749	0.956389132
4374	MCMURRAY_TP53_HRAS_COOPERATION_RESPONSE_DN	59	Up	0.885995964	0.956389132
4375	BIOCARTA_ECM_PATHWAY	22	Up	0.886083912	0.956389132
4376	PID_E2F_PATHWAY	65	Down	0.886086432	0.956389132
4377	JI_CARCINOGENESIS_BY_KRAS_AND_STK11_DN	11	Down	0.886087541	0.956389132
4378	LI_WILMS_TUMOR_ANAPLASTIC_DN	4	Down	0.886224841	0.956389132
4379	MURAKAMI_UV_RESPONSE_24HR	12	Up	0.886345223	0.956389132
4380	MAGRANGEAS_MULTIPLE_MYELOMA_IGG_VS_IGA_DN	16	Up	0.886408463	0.956389132
4381	BIOCARTA_AGR_PATHWAY	31	Up	0.886606017	0.956389132
4382	MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_9	8	Up	0.886807058	0.956389132
4383	REACTOME_PI3K_EVENTS_IN_ERBB4_SIGNALING	32	Up	0.886968506	0.956389132
4384	RHEIN_ALL_GLUCCORTICOID_THERAPY_DN	352	Down	0.887428897	0.956389132
4385	REACTOME_MEIOTIC_RECOMBINATION	46	Down	0.887454604	0.956389132
4386	SARTIPY_NORMAL_AT_INSULIN_RESISTANCE_DN	18	Down	0.887569597	0.956389132
4387	SCHLESINGER_H3K27ME3_IN_NORMAL_AND_METHYLATED_IN_CANCER	15	Down	0.887880859	0.956506397
4388	PENG_Glutamine_Deprivation_DN	326	Down	0.888352498	0.956599186
4389	MIKKELSEN_DEDIFFERENTIATED_STATE_DN	5	Down	8.88E-01	9.57E-01
4390	SHIN_B_CELL_LYMPHOMA_CLUSTER_9	7	Down	8.89E-01	9.57E-01
4391	ASTON_MAJOR_DEPRESSIVE_DISORDER_DN	135	Up	0.889671568	0.957562223

	A	B	C	D	E
4392	REACTOME_REGULATION_OF_GENE_EXPRESSION_IN_BETA_CELLS	9	Down	0.890061842	0.957764109
4393	RAMPON_ENRICHED_LEARNING_ENVIRONMENT_LATE_UP	21	Up	0.890402763	0.95781116
4394	PID_RAC1_REG_PATHWAY	38	Up	0.891035344	0.95781116
4395	ST_GA12_PATHWAY	17	Down	0.891410672	0.95781116
4396	KATSANOUELAVL1_TARGETS_DN	123	Down	0.891526728	0.95781116
4397	BIOCARTA_LYM_PATHWAY	4	Up	0.891598856	0.95781116
4398	REACTOME_PIP3_ACTIVATES_AKT_SIGNALING	27	Up	0.891634108	0.95781116
4399	KEGG_OLFACTORY_TRANSDUCTION	16	Down	0.891667105	0.95781116
4400	KEGG_ACUTE_MYELOID_LEUKEMIA	52	Up	0.891727258	0.95781116
4401	DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_UP	73	Up	0.892559231	0.958486901
4402	REACTOME_SIGNALING_BY_NGF	201	Up	0.893267744	0.95902061
4403	REACTOME_APOPTOSIS	129	Up	0.893661179	0.95902061
4404	KUROKAWA_LIVER_CANCER_CHEMOTHERAPY_UP	11	Up	0.893803007	0.95902061
4405	SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX5_DN	7	Down	0.893868099	0.95902061
4406	BYSTROEM_CORRELATED_WITH_IL5_DN	57	Up	0.894250073	0.959026814
4407	REACTOME_CTLA4_INHIBITORY_SIGNALING	18	Up	0.894613283	0.959026814
4408	MULLIGHAN_NPM1_MUTATED_SIGNATURE_2_UP	113	Up	0.894727408	0.959026814
4409	KYNG_WERNER_SYNDROME_AND_NORMAL_AGING_DN	196	Up	0.894887935	0.959026814
4410	REACTOME_DOWNSTREAM_SIGNALING_EVENTS_OF_B_CELL_RECEPTOR_BCR	90	Down	0.894889279	0.959026814
4411	XU_HGF_TARGETS_INDUCED_BY_AKT1_48HR_UP	12	Down	0.895091693	0.959026814
4412	REACTOME_POST_NMDA_RECEPTOR_ACTIVATION_EVENTS	30	Down	0.895762775	0.95952825
4413	KLEIN_TARGETS_OF_BCR_ABL1_FUSION	23	Up	0.896128236	0.959702156

	A	B	C	D	E
4414	REACTOME_GLUCURONIDATION	3	Down	0.896483595	0.959711128
4415	KEGG_GLYCOSYLPHOSPHATIDYLINOSITOL_GPI_A NCHOR_BIOSYNTHESIS	23	Up	0.89654284	0.959711128
4416	REACTOME_PI3K_CASCADE	52	Up	0.897404174	0.960133133
4417	KANG_GLIS3_TARGETS	16	Down	0.897499179	0.960133133
4418	REACTOME_DCC_MEDIATED_ATTRACTIVE_SIGNA LING	13	Down	0.897546677	0.960133133
4419	BOYLAN_MULTIPLE_MYELOMA_C_D_UP	129	Up	0.897780574	0.96016596
4420	SMID_BREAST_CANCER_LUMINAL_B_UP	134	Down	0.899321814	0.960859915
4421	HAHTOLA_MYCOSIS_FUNGOIDES_CD4_DN	111	Down	0.899539489	0.960859915
4422	HADDAD_T_LYMPHOCYTE_AND_NK_PROGENITOR _DN	28	Up	0.899906982	0.960859915
4423	XU_HGF_TARGETS_REPRESSED_BY_AKT1_UP	8	Up	0.899954499	0.960859915
4424	PID_TCR_RAS_PATHWAY	13	Up	0.900004347	0.960859915
4425	PID_TELOMERASE_PATHWAY	63	Down	0.900209124	0.960859915
4426	BIOCARTA_BARRESTIN_PATHWAY	9	Down	0.900363674	0.960859915
4427	DAZARD_UV_RESPONSE_CLUSTER_G24	17	Down	0.900468276	0.960859915
4428	KENNY_CTNNB1_TARGETS_UP	41	Down	0.900577306	0.960859915
4429	BIOCARTA_TCAPOPTOSIS_PATHWAY	2	Down	0.901131268	0.960859915
4430	REACTOME_NEUROTRANSMITTER_RELEASE_CYC LE	24	Up	9.01E-01	9.61E-01
4431	MEISSNER_BRAIN_ICP_WITH_H3K4ME3	30	Down	9.01E-01	9.61E-01
4432	PID_IL12_2PATHWAY	35	Up	0.901600741	0.960859915
4433	RODRIGUES_THYROID_CARCINOMA_DN	68	Down	0.901662425	0.960859915
4434	MCGOWAN_RSP6_TARGETS_UP	14	Up	0.901690362	0.960859915
4435	JAZAERI_BREAST_CANCER_BRCA1_VS_BRCA2_UP	45	Down	0.901709813	0.960859915
4436	WILLIAMS_ESR2_TARGETS_DN	11	Up	0.901886502	0.960859915
4437	REACTOME_SIGNALLING_TO_RAS	25	Up	0.902235539	0.960947871
4438	PATIL_LIVER_CANCER	696	Down	0.90237581	0.960947871
4439	REACTOME_NEPHRIN_INTERACTIONS	17	Down	0.90280556	0.961188885
4440	HOLLEMAN_DAUNORUBICIN_B_ALL_UP	6	Down	0.903783731	0.962013546

	A	B	C	D	E
4441	KAPOSI_LIVER_CANCER_MET_DN	5	Up	0.904120112	0.962154849
4442	REN_MIF_TARGETS_DN	2	Up	0.904673497	0.962526969
4443	WEBER_METHYLATED_HCP_IN_SPERM_DN	7	Up	0.905347355	0.962613932
4444	REACTOME_CLASS_B_2_SECRETIN_FAMILY_RECEPTORS	47	Up	0.905665108	0.962613932
4445	FIRESTEIN_PROLIFERATION	147	Up	0.9056803	0.962613932
4446	PID_TOLL_ENDOGENOUS_PATHWAY	16	Up	0.905703676	0.962613932
4447	TRACEY_RESISTANCE_TO_IFNA2_UP	5	Down	0.905773872	0.962613932
4448	MARTIN_INTERACT_WITH_HDAC	38	Down	0.906470063	0.962706484
4449	BIOCARTA_CSK_PATHWAY	14	Up	0.906510012	0.962706484
4450	BIOCARTA_IGF1R_PATHWAY	22	Up	0.906529273	0.962706484
4451	PID_TXA2PATHWAY	46	Up	0.906767777	0.962706484
4452	REACTOME_SHC1_EVENTS_IN_EGFR_SIGNALING	15	Up	0.906879695	0.962706484
4453	MCCABE_HOXC6_TARGETS_CANCER_DN	20	Up	0.907858099	0.963528643
4454	JAZAG_TGFB1_SIGNALING_VIA_SMAD4_UP	81	Down	0.908260671	0.963719219
4455	REACTOME_REGULATION_OF_AMPK_ACTIVITY_VIA_LKB1	13	Up	0.908727869	0.963719219
4456	SHARMA_PILOCYTIC_ASTROCYTOMA_LOCATION_UP	16	Up	0.908738948	0.963719219
4457	WANG_THOC1_TARGETS_UP	4	Up	0.908853511	0.963719219
4458	ONGUSAHA_BRCA1_TARGETS_DN	12	Up	0.909101739	0.963766147
4459	VANTVEER_BREAST_CANCER_METASTASIS_UP	47	Up	0.909669124	0.964038315
4460	CREIGHTON_AKT1_SIGNALING_VIA_MTOR_UP	33	Up	0.909766528	0.964038315
4461	BANDRES_RESPONSE_TO_CARMUSTIN_MGMT_24HR_UP	8	Down	0.910176378	0.964256365
4462	CLAUS_PGR_POSITIVE_MENINGIOMA_UP	9	Up	0.910572241	0.964291738
4463	PID_WNT_CANONICAL_PATHWAY	19	Up	0.910617933	0.964291738
4464	MAHAJAN_RESPONSE_TO_IL1A_UP	56	Down	0.911516	0.965026462
4465	REACTOME_HS_GAG_DEGRADATION	18	Up	0.912366905	0.965710938
4466	IIZUKA_LIVER_CANCER_PROGRESSION_LO_L1_DN	20	Down	0.912687109	0.965833503

	A	B	C	D	E
4467	BERTUCCI_INVASIVE_CARCINOMA_DUCTAL_VS_L OBULAR_DN	30	Down	0.913674962	0.966662381
4468	KORKOLA_CHORIOCARCINOMA_DN	6	Down	0.913986115	0.966750102
4469	KEGG_ABC_TRANSPORTERS	27	Up	0.914310209	0.966750102
4470	ROZANOV_MMP14_CORRELATED	11	Up	0.914371683	0.966750102
4471	GEORGES_CELL_CYCLE_MIR192_TARGETS	60	Down	9.15E-01	9.67E-01
4472	WEBER_METHYLATED_IN_COLON_CANCER	10	Up	9.15E-01	9.67E-01
4473	GRAESSMANN_RESPONSE_TO_MC_AND_DOXOR UBICIN_DN	742	Up	0.91527817	0.967059336
4474	LIU_SOX4_TARGETS_DN	294	Up	0.915535324	0.967114779
4475	OUYANG_PROSTATE_CANCER_MARKERS	18	Down	0.916277682	0.967568804
4476	REACTOME_ASPARAGINE_N_LINKED_GLYCOSYLA TION	80	Up	0.916480236	0.967568804
4477	JEON_SMAD6_TARGETS_DN	18	Up	0.916579464	0.967568804
4478	ZEMBUTSU_SENSITIVITY_TO_CYCLOPHOSPHAMID E	15	Down	0.917381199	0.968153157
4479	WU_HBX_TARGETS_1_DN	20	Up	0.917646243	0.968153157
4480	REACTOME_G_PROTEIN_BETA_GAMMA_SIGNALL ING	22	Down	0.917825974	0.968153157
4481	REACTOME_ENERGY_DEPENDENT_REGULATION_ OF_MTOR_BY_LKB1_AMPK	16	Up	0.917952623	0.968153157
4482	LIU_COMMON_CANCER_GENES	71	Down	0.918686401	0.968710833
4483	LOPEZ_MBD_TARGETS	860	Down	0.919736949	0.969540469
4484	MCCLUNG_COCAIN_REWARD_4WK	55	Down	0.919883581	0.969540469
4485	MIZUSHIMA_AUTOPHAGOSOME_FORMATION	19	Up	0.920418114	0.969767882
4486	DARWICHE_SKIN_TUMOR_PROMOTER_UP	112	Up	0.920620324	0.969767882
4487	BYSTRYKH_HEMATOPOIESIS_STEM_CELL_FGF3	7	Up	0.920715073	0.969767882
4488	REACTOME_IRAK1_RECRUITS_IKK_COMPLEX	9	Up	0.921294234	0.970161635
4489	REACTOME_SIGNAL_AMPLIFICATION	24	Up	0.921566544	0.970232157
4490	IIZUKA_LIVER_CANCER_PROGRESSION_L1_G1_D N	11	Down	0.921939262	0.970408334
4491	PID_ECADHERIN_KERATINOCYTE_PATHWAY	20	Down	0.922147508	0.970411353

	A	B	C	D	E
4492	DARWICHE_SQUAMOUS_CELL_CARCINOMA_DN	142	Up	0.922826577	0.970909725
4493	REACTOME_BIOSYNTHESIS_OF_THE_N_GLYCAN_PRECURSOR_DOLICHOL_LIPID_LINKED_OLIGOSACCHARIDE_LLO_AND_TRANSFER_TO_A_NASCENT_PROTEIN	28	Down	0.923281614	0.971153129
4494	BIOCARTA_ARF_PATHWAY	14	Down	0.923468997	0.971153129
4495	DAZARD_UV_RESPONSE_CLUSTER_G4	19	Up	0.923836209	0.971323116
4496	REICHERT_G1S_REGULATORS_AS_PI3K_TARGETS	8	Down	0.924281167	0.971574753
4497	ELVIDGE_HIF1A_TARGETS_DN	86	Up	0.924683334	0.971616636
4498	CHEN_NEUROBLASTOMA_COPY_NUMBER_GAINS	40	Down	0.924732278	0.971616636
4499	REACTOME_INTERACTION_BETWEEN_L1_AND_A_NKYRINS	18	Down	0.926166558	0.972907289
4500	MARKS_HDAC_TARGETS_UP	18	Up	0.927452986	0.97330378
4501	HADDAD_B_LYMPHOCYTE_PROGENITOR	230	Down	0.927561938	0.97330378
4502	BIOCARTA_TRKA_PATHWAY	10	Up	0.927731858	0.97330378
4503	BENPORATH_EED_TARGETS	571	Down	0.927748968	0.97330378
4504	BIOCARTA_CDK5_PATHWAY	10	Up	0.927759995	0.97330378
4505	MIKKELSEN_MEF_ICP_WITH_H3K4ME3_AND_H3K27ME3	26	Up	0.927779941	0.97330378
4506	TERAMOTO_OPN_TARGETS_CLUSTER_5	7	Up	0.928293772	0.973626653
4507	PID_ALK2_PATHWAY	8	Down	0.928892704	0.974038621
4508	ITO_PTTG1_TARGETS_DN	9	Up	0.92934005	0.974291488
4509	SU_LIVER	16	Up	0.929572826	0.974319344
4510	BARRIER_CANCER_RELAPSE_NORMAL_SAMPLE_UP	23	Down	0.930430023	0.974691653
4511	REACTOME_OPIOID_SIGNALLING	66	Up	0.930759837	0.974691653
4512	MARCHINI TRABECTEDIN_RESISTANCE_UP	20	Down	9.31E-01	9.75E-01
4513	CHEMELLO_SOLEUS_VS_EDL_MYOFIBERS_UP	21	Down	9.31E-01	9.75E-01
4514	INAMURA_LUNG_CANCER_SCC_DN	11	Up	0.931351581	0.974691653

	A	B	C	D	E
4515	TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_L OBULAR_NORMAL_UP	67	Down	0.931492049	0.974691653
4516	SENGUPTA_EBNA1_ANTICORRELATED	126	Down	0.931574673	0.974691653
4517	PYEON_HP_V_POSITIVE_TUMORS_UP	81	Down	0.931578308	0.974691653
4518	KEGG_ERBB_SIGNALING_PATHWAY	77	Down	0.93197702	0.974892943
4519	SIG_CD40PATHWAYMAP	34	Down	0.932927043	0.975609031
4520	GRASEMANN_RETINOBLASTOMA_WITH_6P_AMP LIFICATION	14	Up	0.933148165	0.975609031
4521	REACTOME_NCAM_SIGNALING_FOR_NEURITE_O UT_GROWTH	59	Up	0.93328102	0.975609031
4522	REACTOME_PHOSPHOLIPASE_C_MEDIATED_CASC ADE	38	Down	0.933573646	0.975699066
4523	KORKOLA_YOLK_SAC_TUMOR	44	Up	0.933895597	0.975819703
4524	FUJIWARA_PARK2_IN_LIVER_CANCER_UP	6	Up	0.934187429	0.975827569
4525	JIANG_AGING_HYPOTHALAMUS_UP	42	Up	0.934316174	0.975827569
4526	WONG_IFNA2_RESISTANCE_UP	14	Down	0.936662532	0.977672458
4527	JAZAG_TGFB1_SIGNALING_VIA_SMAD4_DN	48	Up	0.936701312	0.977672458
4528	NAKAMURA_LUNG_CANCER_DIFFERENTIATION_ MARKERS	6	Down	0.936703327	0.977672458
4529	REACTOME_HYALURONAN_METABOLISM	11	Up	0.937336379	0.977817027
4530	REACTOME_METABOLISM_OF_POLYAMINES	14	Up	0.937452697	0.977817027
4531	REACTOME_ACTIVATION_OF_CHAPERONE_GENE S_BY_XBP1S	43	Up	0.937462674	0.977817027
4532	KEGG_CHRONIC_MYELOID_LEUKEMIA	65	Up	0.938246134	0.978105324
4533	CROONQUIST_STROMAL_STIMULATION_DN	9	Down	0.938342934	0.978105324
4534	BIOCARTA_GH_PATHWAY	23	Down	0.938360092	0.978105324
4535	REACTOME_SYNTHESIS_OF_SUBSTRATES_IN_N_ GLYCAN_BIOSYTHESIS	14	Down	0.938679887	0.978206461
4536	VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY _DN	87	Up	0.938871175	0.978206461
4537	REACTOME_RETROGRADE_NEUROTROPHIN_SIG NALLING	11	Up	0.939572757	0.978721622

	A	B	C	D	E
4538	MOOTHA_HUMAN_MITODB_6_2002	399	Up	0.939835503	0.978779535
4539	ZHOU_TNF_SIGNALING_30MIN	48	Down	0.940164201	0.978840993
4540	REACTOME_AMINE_COMPOUND_SLC_TRANSPORTERS	10	Up	0.940534997	0.978840993
4541	BIOCARTA_SPPA_PATHWAY	18	Up	0.9406632	0.978840993
4542	REACTOME_PROCESSIVE_SYNTHESIS_ON_THE_LAGGING_STRAND	15	Down	0.940723164	0.978840993
4543	SMITH_LIVER_CANCER	40	Up	0.941147729	0.979067156
4544	PID_INSULIN_PATHWAY	43	Down	0.941528614	0.979247788
4545	KORKOLA_TERATOMA	30	Up	0.941913789	0.979432802
4546	GENTLES_LEUKEMIC_STEM_CELL_DN	10	Up	0.942178563	0.979492566
4547	NAKAYAMA_SOFT_TISSUE_TUMORS_PCA1_DN	59	Up	0.942915972	0.979957422
4548	REACTOME_SHC_MEDIATED_SIGNALLING	15	Up	0.943040508	0.979957422
4549	MARTINELLI_IMMATURE_NEUTROPHIL_UP	1	Down	0.944018931	0.980758454
4550	HEDVAT_ELF4_TARGETS_UP	9	Up	0.944496781	0.981024028
4551	BIOCARTA_NUCLEARRS_PATHWAY	6	Down	0.944791646	0.981024028
4552	TAKADA_GASTRIC_CANCER_COPY_NUMBER_DN	21	Down	0.944899543	0.981024028
4553	THUM_SYSTOLIC_HEART_FAILURE_DN	213	Up	9.45E-01	9.81E-01
4554	BIOCARTA_MCM_PATHWAY	18	Down	9.46E-01	9.81E-01
4555	RODRIGUES_NTN1_AND_DCC_TARGETS	33	Up	0.94579107	0.981040188
4556	SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX2_DN	6	Down	0.945848898	0.981040188
4557	MATZUK_MEIOTIC_AND_DNA_REPAIR	31	Down	0.946143851	0.981040188
4558	REN_ALVEOLAR_RHABDOMYOSARCOMA_UP	77	Up	0.946158759	0.981040188
4559	SU_SALIVARY_GLAND	7	Up	0.946827189	0.981336996
4560	BIOCARTA_BCELLSURVIVAL_PATHWAY	15	Down	0.946980478	0.981336996
4561	KORKOLA_CHORIOCARCINOMA	1	Up	0.947519456	0.981336996
4562	REACTOME_INHIBITION_OF_REPLICATION_INITIATION_OF_DAMAGED_DNA_BY_RB1_E2F1	12	Up	0.947543992	0.981336996
4563	KIM_ALL_DISORDERS_CALB1_CORR_DN	16	Down	0.947895304	0.981336996
4564	BIOCARTA_HCMV_PATHWAY	16	Up	0.948067046	0.981336996

	A	B	C	D	E
4565	NABA_ECM_GLYCOPROTEINS	124	Down	0.948074148	0.981336996
4566	SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX6_UP	7	Up	0.948223976	0.981336996
4567	NABA_SECRETED_FACTORS	124	Down	0.948314227	0.981336996
4568	REACTOME_ANTIVIRAL_MECHANISM_BY_INTERFERON_STIMULATED_GENES	64	Down	0.948585564	0.981402844
4569	WANG_TNF_TARGETS	12	Up	0.948897305	0.981510457
4570	KEGG_N_GLYCAN_BIOSYNTHESIS	46	Down	0.94968478	0.982109999
4571	FUJII_YBX1_TARGETS_UP	32	Down	0.950098084	0.982322417
4572	SCHWAB_TARGETS_OF_BMYB_POLYMORPHIC_VARIANTS_UP	12	Down	0.950819079	0.9828528
4573	PID_WNT_SIGNALING_PATHWAY	21	Down	0.951116261	0.982874765
4574	FINETTI_BREAST_CANCER_KINOME_GREEN	12	Up	0.951448919	0.982874765
4575	DURCHDEWALD_SKIN_CARCINOGENESIS_UP	66	Down	0.951464375	0.982874765
4576	BIOCARTA_IGF1_PATHWAY	19	Up	0.951701528	0.982904857
4577	JIANG_TIP30_TARGETS_DN	23	Down	0.952844062	0.983686573
4578	SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX5_UP	9	Up	0.952874803	0.983686573
4579	REACTOME_NFKB_AND_MAP_KINASES_ACTIVATION_MEDIATED_BY_TLR4_SIGNALING_REPERTOIRE	62	Up	0.953784493	0.984250619
4580	REACTOME_NUCLEOTIDE_BINDING_DOMAIN_LEUCINE_RICH_REPEAT_CONTAINING_RECEPTOR_NLR_SIGNALING_PATHWAYS	35	Up	0.954168166	0.984250619
4581	REACTOME_TRAF3_DEPENDENT_IRF_ACTIVATION_PATHWAY	13	Down	0.954450102	0.984250619
4582	HADDAD_T_LYMPHOCYTE_AND_NK_PROGENITOR_UP	66	Down	0.954477621	0.984250619
4583	MOOTHA_TCA	16	Up	0.954712053	0.984250619
4584	JAEGER_METASTASIS_DN	164	Down	0.954885463	0.984250619
4585	PID_AJDISS_2PATHWAY	43	Down	0.955321357	0.984250619
4586	PID_VEGFR1_2_PATHWAY	67	Up	0.955539159	0.984250619

	A	B	C	D	E
4587	WEIGEL_OXIDATIVE_STRESS_BY_HNE_AND_TBH	55	Up	0.955628793	0.984250619
4588	DACOSTA_LOW_DOSE_UV_RESPONSE_VIA_ERCC3_XPCS_UP	13	Up	0.956011879	0.984250619
4589	AIYAR_COBRA1_TARGETS_DN	28	Up	0.95613384	0.984250619
4590	KEGG_PROSTATE_CANCER	81	Down	0.956387722	0.984250619
4591	ZHANG_ANTIVIRAL_RESPONSE_TO_RIBAVIRIN_UP	24	Up	0.956535888	0.984250619
4592	CLASPER_LYMPHATIC_VESSELS_DURING_METASTASIS_DN	33	Up	0.956670118	0.984250619
4593	KEGG_GALACTOSE_METABOLISM	20	Down	0.956738671	0.984250619
4594	BIOCARTA_INSULIN_PATHWAY	20	Down	9.57E-01	9.84E-01
4595	ZHAN_MULTIPLE_MYELOMA_CD1_VS_CD2_DN	46	Down	9.57E-01	9.85E-01
4596	BIOCARTA_LECTIN_PATHWAY	5	Down	0.95754887	0.984510673
4597	BYSTRYKH_HEMATOPOIESIS_STEM_CELL_TRANS	717	Up	0.957736073	0.984510673
4598	WORSCHER_TUMOR_REJECTION_DN	9	Down	0.957985527	0.984510673
4599	WANG_IMMORTALIZED_BY_HOXA9_AND_MEIS1_DN	11	Up	0.958182873	0.984510673
4600	REACTOME_M_G1_TRANSITION	76	Up	0.95848834	0.984510673
4601	SAGIV_CD24_TARGETS_UP	21	Down	0.958606711	0.984510673
4602	KEGG_PENTOSE_AND_GLUCURONATE_INTERCONVERSIONS	10	Up	0.959446176	0.984510673
4603	REACTOME_SIGNALING_BY_THE_B_CELL_RECEPTOR_BCR	114	Down	0.959834584	0.984510673
4604	PID_EPHA2_FWD_PATHWAY	19	Down	0.960000225	0.984510673
4605	REACTOME_PROTEIN_FOLDING	48	Down	0.96004427	0.984510673
4606	TERAO_AOX4_TARGETS_SKIN_DN	19	Up	0.960062643	0.984510673
4607	DASU_IL6_SIGNALING_UP	52	Up	0.960488892	0.984510673
4608	REACTOME_RECYCLING_OF_BILE_ACIDS_AND_SALT	3	Up	0.960640958	0.984510673
4609	HUANG_DASATINIB_RESISTANCE_DN	61	Up	0.960715571	0.984510673

	A	B	C	D	E
4610	PID_NETRIN_PATHWAY	31	Up	0.960720707	0.984510673
4611	GAVIN_FOXP3_TARGETS_CLUSTER_T7	91	Up	0.960739824	0.984510673
4612	PID_NECTIN_PATHWAY	29	Up	0.960757399	0.984510673
4613	REACTOME_TRAF6_MEDIATED_IRF7_ACTIVATION_IN_TLR7_8_OR_9_SIGNALING	6	Down	0.961404555	0.984960218
4614	BIOCARTA_ERYTH_PATHWAY	5	Down	0.961860468	0.985092859
4615	MARTORIATI_MDM4_TARGETS_FETAL_LIVER_DN	459	Down	0.962173097	0.985092859
4616	REACTOME_SIGNALING_BY_GPCR	303	Up	0.962531074	0.985092859
4617	LIAO_HAVE_SOX4_BINDING_SITES	35	Up	0.962572638	0.985092859
4618	KONDO_COLON_CANCER_HCP_WITH_H3K27ME3	3	Down	0.962829279	0.985092859
4619	REACTOME_SHC_RELATED_EVENTS	16	Down	0.962904116	0.985092859
4620	HUMMERICH_MALIGNANT_SKIN_TUMOR_DN	9	Up	0.962993421	0.985092859
4621	GUTIERREZ_CHRONIC_LYMPHOCYTIC_LEUKEMIA_UP	8	Up	0.963220403	0.985111776
4622	MEISSNER_NPC_ICP_WITH_H3K4ME3	18	Up	0.963933884	0.985628133
4623	ICHIBA_GRAFT_VERSUS_HOST_DISEASE_35D_DN	31	Up	0.964284203	0.985715018
4624	KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY	82	Down	0.964801415	0.985715018
4625	ST_WNT_BETA_CATENIN_PATHWAY	30	Up	0.965211877	0.985715018
4626	REACTOME_AXON_GUIDANCE	227	Up	0.965296795	0.985715018
4627	REACTOME_TRAFFICKING_AND_PROCESSING_OF_ENDOSOMAL_TLR	8	Down	0.965304919	0.985715018
4628	WANG_METASTASIS_OF_BREAST_CANCER	11	Up	0.965333556	0.985715018
4629	REACTOME_MEIOSIS	68	Down	0.965479175	0.985715018
4630	TARTE_PLASMA_CELL_VS_PLASMABLAST_DN	294	Down	0.965855823	0.985886533
4631	BENPORATH_MYC_MAX_TARGETS	740	Down	0.966763267	0.986139389
4632	CARDOSO_RESPONSE_TO_GAMMA_RADIATION_AND_3AB	17	Down	0.966919326	0.986139389

	A	B	C	D	E
4633	SIG_INSULIN_RECEPTOR_PATHWAY_IN_CARDIAC_MYOCYTES	47	Down	0.966922148	0.986139389
4634	REACTOME_PROSTANOID_LIGAND_RECEPTORS	4	Up	0.966938368	0.986139389
4635	WU_ALZHEIMER_DISEASE_DN	14	Down	9.67E-01	9.86E-01
4636	KAYO_CALORIE_RESTRICTION_MUSCLE_DN	69	Down	9.68E-01	9.87E-01
4637	VANHARANTA_UTERINE_FIBROID_UP	41	Down	0.968067234	0.986651787
4638	REACTOME_TRIF_MEDIATED_TLR3_SIGNALING	66	Up	0.969504242	0.987817329
4639	PID_REELIN_PATHWAY	28	Down	0.969816321	0.987817329
4640	REACTOME_APOBEC3G_MEDIATED_RESISTANCE_TO_HIV1_INFECTION	5	Down	0.969838009	0.987817329
4641	REACTOME_DEFENSINS	2	Down	0.970188324	0.987961171
4642	GRABARCZYK_BCL11B_TARGETS_DN	41	Down	0.970535292	0.988101541
4643	REACTOME_PHOSPHORYLATION_OF_CD3_AND_T_CR_ZETA_CHAINS	7	Down	0.971039766	0.988402174
4644	CHEOK_RESPONSE_TO_MERCAPTOPYRINE_AND_HD_MTX_DN	22	Down	0.971412351	0.98856846
4645	BOYAULT_LIVER_CANCER_SUBCLASS_G23_DN	8	Down	0.972536416	0.989499261
4646	BANDRES_RESPONSE_TO_CARMUSTIN_MGMT_2_4HR_DN	26	Down	0.972815004	0.989569622
4647	DELASERNA_TARGETS_OF_MYOD_AND_SMARCA4	7	Up	0.973072247	0.98958445
4648	WATANABE_COLON_CANCER_MSI_VS_MSS_DN	61	Down	0.973248453	0.98958445
4649	DASU_IL6_SIGNALING_SCAR_UP	29	Down	0.974035893	0.990149223
4650	BIOCARTA_CTCF_PATHWAY	18	Down	0.974286674	0.990149223
4651	ROY_WOUND_BLOOD_VESSEL_DN	15	Down	0.974452905	0.990149223
4652	REACTOME_TRAFFICKING_OF_AMPA_RECEPTORS	22	Down	0.974642124	0.990149223
4653	LEE_RECENT_THYMIC_EMIGRANT	197	Down	0.975697219	0.990457598
4654	YAUCH_HEDGEHOG_SIGNALING_PARACRINE_UP	103	Down	0.975768885	0.990457598
4655	IKEDA_MIR133_TARGETS_DN	6	Down	0.975800503	0.990457598
4656	FUJII_YBX1_TARGETS_DN	197	Down	0.975876246	0.990457598

	A	B	C	D	E
4657	BROWNE_HCMV_INFECTION_16HR_UP	212	Down	0.976036229	0.990457598
4658	REACTOME_GAP_JUNCTION_ASSEMBLY	7	Up	0.976203394	0.990457598
4659	REACTOME_PLATELET_CALCIIUM_HOMEOSTASIS	11	Up	0.976798952	0.990849087
4660	BIOCARTA_CYTOKINE_PATHWAY	1	Up	0.977461459	0.991095578
4661	BUDHU_LIVER_CANCER_METASTASIS_DN	1	Up	0.977461459	0.991095578
4662	KEGG_MATURITY_ONSET_DIABETES_OF_THE_YOUNG	11	Up	0.978108586	0.991326666
4663	JAZAG_TGFB1_SIGNALING_DN	24	Up	0.978108978	0.991326666
4664	RAY_ALZHEIMERS_DISEASE	5	Up	0.97835466	0.991363021
4665	VALK_AML_CLUSTER_3	28	Down	0.979379211	0.992010638
4666	APPIERTO_RESPONSE_TO_FENRETINIDE_UP	30	Up	0.979656467	0.992010638
4667	MURAKAMI_UV_RESPONSE_1HR_UP	12	Down	0.979716811	0.992010638
4668	GOUYER_TUMOR_INVASIVENESS	7	Down	0.979833576	0.992010638
4669	REACTOME_CDC6_ASSOCIATION_WITH_THE_ORC_ORIGIN_COMPLEX	11	Down	0.980069035	0.992036459
4670	ROYLANCE_BREAST_CANCER_16Q_COPY_NUMBER_UP	50	Up	0.980632383	0.992259638
4671	SAKAI_TUMOR_INFILTRATING_MONOCYTES_UP	26	Up	0.980709526	0.992259638
4672	BILANGES_SERUM_SENSITIVE_GENES	73	Down	0.981192202	0.992485752
4673	BASAKI_YBX1_TARGETS_UP	276	Down	0.9815205	0.992485752
4674	PID_NEPHRIN_NEPH1_PATHWAY	28	Down	0.981780817	0.992485752
4675	REACTOME_MITOCHONDRIAL_TRNA_AMINOACYLATION	21	Down	0.981953312	0.992485752
4676	SA_PROGRAMMED_CELL_DEATH	11	Up	9.82E-01	9.92E-01
4677	REACTOME_CYCLIN_E_ASSOCIATED_EVENTS_DURING_G1_S_TRANSITION	62	Down	9.82E-01	9.92E-01
4678	GROSS_HIF1A_TARGETS_UP	7	Down	0.982529445	0.992485752
4679	WONG_MITOCHONDRIA_GENE_MODULE	209	Down	0.982613407	0.992485752
4680	ZIRN_TRETINOIN_RESPONSE_WT1_DN	5	Down	0.983507938	0.993176962
4681	BIOCARTA_ASBCCELL_PATHWAY	5	Down	0.984136273	0.993396189
4682	KUROZUMI_RESPONSE_TO_ONCOCYTIC_VIRUS_AND_CYCLIC_RGD	3	Up	0.984145515	0.993396189

	A	B	C	D	E
4683	BIOCARTA_TFF_PATHWAY	18	Down	0.984950801	0.993996697
4684	PID_RAC1_PATHWAY	50	Up	0.986716059	0.995565531
4685	LIU_CDX2_TARGETS_UP	18	Down	0.987172845	0.995813769
4686	REACTOME_SIGNALING_BY_ERBB2	90	Up	0.987658898	0.996091417
4687	JIANG_HYPOXIA_CANCER	80	Up	0.988727607	0.996956454
4688	REACTOME_POST_TRANSLATIONAL_MODIFICATI ON_SYNTHESIS_OF_GPI_ANCHORED_PROTEINS	26	Up	0.989370367	0.997391718
4689	REACTOME_ACTIVATION_OF_NF_KAPPAB_IN_B_ CELLS	60	Down	0.989731089	0.997470322
4690	REACTOME_IKK_COMPLEX_RECRUITMENT_MEDIA TED_BY_RIP1	6	Down	0.989870549	0.997470322
4691	OHM_METHYLATED_IN_ADULT_CANCERS	20	Up	0.990765428	0.997537065
4692	NAKAMURA_TUMOR_ZONE_PERIPHERAL_VS_CE NTRAL_DN	551	Up	0.990914706	0.997537065
4693	DAVICIONI_MOLECULAR_ARMS_VS_ERMS_DN	163	Up	0.991223672	0.997537065
4694	LIU_PROSTATE_CANCER_UP	86	Down	0.991278461	0.997537065
4695	WONG_PROTEASOME_GENE_MODULE	49	Down	0.991339381	0.997537065
4696	ZEMBUTSU_SENSITIVITY_TO_VINBLASTINE	12	Down	0.99143621	0.997537065
4697	REACTOME_CLASS_I_MHC_MEDIATED_ANTIGEN_ PROCESSING_PRESENTATION	215	Up	0.9917282	0.997537065
4698	CHIANG_LIVER_CANCER_SUBCLASS_POLYSOMY7 _UP	54	Up	0.991841306	0.997537065
4699	THILLAINADESAN_ZNF217_TARGETS_DN	8	Down	0.991982806	0.997537065
4700	CHOI_ATL_STAGE_PREDICTOR	42	Up	0.992047972	0.997537065
4701	DARWICHE_PAPILLOMA_PROGRESSION_RISK	51	Up	0.992688292	0.997833206
4702	REACTOME_CLASS_C_3_METABOTROPIC_GLUTA MATE_PHEROMONE_RECEPTORS	7	Up	0.992764847	0.997833206
4703	CHOW_RASSF1_TARGETS_DN	27	Up	0.993172246	0.998030384
4704	HOLLEMAN_VINCRIStINE_RESISTANCE_ALL_UP	27	Down	0.993964977	0.998614612
4705	RIZ_ERYTHROID_DIFFERENTIATION_APOBEC2	16	Down	0.994335885	0.998759566
4706	RAHMAN_TP53_TARGETS_PHOSPHORYLATED	21	Down	0.994532013	0.998759566
4707	DARWICHE_PAPILLOMA_RISK_LOW_UP	124	Up	0.995341148	0.998769172

	A	B	C	D	E
4708	REACTOME_IMMUNE_SYSTEM	657	Up	0.995369765	0.998769172
4709	YAMANAKA_GLIOMASTOMA_SURVIVAL_DN	8	Down	0.995514835	0.998769172
4710	WEBER_METHYLATED_HCP_IN_FIBROBLAST_UP	3	Down	0.995748796	0.998769172
4711	KONDO_COLON_CANCER_HCP_WITH_H3K27ME1	22	Up	0.995793058	0.998769172
4712	KEGG_OXIDATIVE_PHOSPHORYLATION	118	Up	0.995965963	0.998769172
4713	REACTOME_L1CAM_INTERACTIONS	79	Up	0.996156383	0.998769172
4714	REACTOME_NA_CL_DEPENDENT_NEUROTRANSMITTER_TRANSPORTERS	5	Up	0.996360678	0.998769172
4715	WU_HBX_TARGETS_2_UP	19	Down	0.996613184	0.998769172
4716	REACTOME_EICOSANOID_LIGAND_BINDING_RECEPTORS	7	Up	0.996747004	0.998769172
4717	RUTELLA_RESPONSE_TO_HGF_DN	193	Up	9.97E-01	9.99E-01
4718	KYNG_ENVIRONMENTAL_STRESS_RESPONSE_NOT_BY_UV_IN_OLD	21	Down	9.97E-01	9.99E-01
4719	GAJATE_RESPONSE_TO TRABECTEDIN_DN	18	Down	0.997291675	0.998769172
4720	BIOCARTA_NO2IL12_PATHWAY	5	Down	0.997500893	0.998769172
4721	PID_ILK_PATHWAY	43	Up	0.997899409	0.998955306
4722	TESAR_ALK_TARGETS_EPISC_3D_UP	4	Down	0.99810963	0.998955306
4723	SHIPP_DLBCL_CURED_VS_FATAL_UP	22	Up	0.998731777	0.999366295
4724	SERVITJA_ISLET_HNF1A_TARGETS_DN	65	Up	0.99903384	0.999456891
4725	SASAI_TARGETS_OF_CXCR6_AND_PTCH1_UP	11	Up	0.999712846	0.99992447
4726	SUZUKI_RESPONSE_TO_TSA_AND_DECITABINE_1B	15	Down	0.999984563	0.999984563