

Gene list, biased for iAEC2 cluster, ranked by expression ratio

index	gene	Qvalue	expr. ratio
0	177 RGCC	1.83E-09	-1.7323575
1	0 ERRFI1	2.46E-91	-1.4731095
2	20 STOM	6.02E-34	-1.4486936
3	116 KLF9	1.26E-14	-1.3627036
4	29 SLC7A11	3.21E-30	-1.2492877
5	81 AQP3	1.14E-19	-1.2302451
6	80 IRS2	9.18E-20	-1.0817585
7	71 LIFR	3.28E-21	-1.0496936
8	44 CEBPB	3.63E-26	-1.0412538
9	38 PHLDA2	4.95E-27	-0.96475875
10	76 RASD1	4.24E-20	-0.95588344
11	48 CTD-2562J17	2.17E-25	-0.9553319
12	31 PYGB	5.69E-29	-0.95121366
13	133 CEBPD	3.47E-13	-0.88859034
14	97 DUSP4	1.42E-16	-0.87708056
15	58 GNAI1	6.17E-24	-0.8721144
16	52 ZDHHC9	1.32E-24	-0.8615954
17	136 DLC1	1.32E-12	-0.85935915
18	123 WIF1	5.35E-14	-0.8468963
19	56 DSTN	5.53E-24	-0.83219796
20	244 HIST1H2BK	3.71E-07	-0.804202
21	27 CDH1	3.99E-31	-0.8040157
22	35 SPTBN1	3.14E-27	-0.7960636
23	179 ITPKA	1.98E-09	-0.7319896
24	186 RCL1	3.69E-09	-0.725594
25	134 ZNF503	4.53E-13	-0.69949716
26	66 MRPS23	3.16E-22	-0.69829714
27	119 JAK1	3.70E-14	-0.6971416
28	41 IDS	9.90E-27	-0.6947808
29	70 NEAT1	2.46E-21	-0.6868468
30	473 SFRP1	0.00041203	-0.6865235
31	122 UBE2M	5.18E-14	-0.6791974
32	296 CSGALNACT2	3.58E-06	-0.6761099
33	89 PEG10	5.31E-18	-0.673114
34	198 CLOCK	1.34E-08	-0.658707
35	143 EDEM1	5.07E-12	-0.64423305
36	24 HSPA5	7.67E-33	-0.64237374
37	337 GAL	1.53E-05	-0.6423515
38	135 CDC42EP3	4.77E-13	-0.6326196
39	113 PIP4K2C	5.83E-15	-0.6283333
40	459 LINC00665	0.00031065	-0.62730944
41	93 PRKAR2A	3.62E-17	-0.61931914
42	158 IL6R	6.84E-11	-0.60572034

43	144 ADK	6.46E-12	-0.5991878
44	320 CPM	9.98E-06	-0.5986237
45	624 NRK	0.00342499	-0.5964263
46	303 GPRC5A	4.70E-06	-0.5917196
47	621 CHAC1	0.00338923	-0.5886028
48	384 PSAT1	5.22E-05	-0.58749515
49	716 SOX2	0.00819327	-0.5790731
50	127 ATP6V1A	9.71E-14	-0.5780378
51	362 ANKRA2	2.78E-05	-0.566418
52	196 UNC13B	1.10E-08	-0.5662101
53	350 LINC01003	2.14E-05	-0.5609283
54	39 DDX21	8.39E-27	-0.55832475
55	372 LURAP1L	3.69E-05	-0.5566101
56	275 MLLT11	1.39E-06	-0.53448725
57	264 SMIM14	8.05E-07	-0.53377163
58	477 ZADH2	0.00042313	-0.53354186
59	245 DESI1	3.80E-07	-0.5333433
60	150 RAB10	1.40E-11	-0.5293506
61	505 SLC25A16	0.00070937	-0.5192778
62	617 SLFN5	0.00319897	-0.5167609
63	560 LPCAT1	0.00151707	-0.51440674
64	148 EMC7	1.33E-11	-0.5126074
65	200 TMEM41A	1.68E-08	-0.5103001
66	313 IRX3	6.41E-06	-0.5083366
67	582 TECPR1	0.00217245	-0.50676864
68	241 STC2	3.16E-07	-0.50646394
69	258 BCAT1	6.73E-07	-0.50595224
70	253 CDKN1A	4.99E-07	-0.50574523
71	265 GFRA1	8.43E-07	-0.50196135
72	103 SSR3	1.00E-15	-0.49848178
73	171 GCLM	8.94E-10	-0.49329898
74	452 ANAPC16	0.00028084	-0.48849404
75	185 TERF2IP	3.01E-09	-0.48712105
76	458 MAOA	0.00030806	-0.48681396
77	228 HS6ST2	2.11E-07	-0.48549312
78	348 SPAG9	1.96E-05	-0.48109454
79	366 MAK16	3.14E-05	-0.48086193
80	354 SLC25A36	2.34E-05	-0.48027557
81	731 GDF15	0.00898553	-0.47869155
82	315 NKX2-1-AS1	7.39E-06	-0.47600502
83	238 PPTC7	2.87E-07	-0.47463906
84	165 TRNP1	5.16E-10	-0.47375295
85	485 TET3	0.00049386	-0.4727312
86	426 CD55	0.00016858	-0.47140306
87	289 SNHG3	2.42E-06	-0.47109228

88	137 ATP5E	1.44E-12	-0.46865982
89	339 UBL3	1.56E-05	-0.46677485
90	222 FAM177A1	1.11E-07	-0.4643143
91	271 YRDC	1.17E-06	-0.45690987
92	285 LIN7A	2.01E-06	-0.45073223
93	255 MAN2A1	5.39E-07	-0.44968322
94	504 DOCK5	0.00070366	-0.4480415
95	507 NEBL	0.00071867	-0.44743374
96	312 LMO7	6.33E-06	-0.44687545
97	370 IQGAP1	3.61E-05	-0.4453307
98	256 GOT1	5.60E-07	-0.44525883
99	862 WWC3	0.02483329	-0.44288528
100	297 STX7	3.58E-06	-0.44269302
101	399 WDR3	8.34E-05	-0.4410152
102	379 ANXA2	4.21E-05	-0.437283
103	288 EMC3	2.36E-06	-0.43571302
104	601 FAM8A1	0.00272607	-0.433285
105	364 RNF145	2.82E-05	-0.43261436
106	361 LINC00998	2.78E-05	-0.43087566
107	300 NUS1	4.36E-06	-0.43004534
108	257 MTDH	6.00E-07	-0.42966503
109	420 CDC37L1	0.00015463	-0.42870703
110	567 PACSIN2	0.00176865	-0.42758864
111	291 ATF6	2.58E-06	-0.42668438
112	360 RSL1D1	2.62E-05	-0.42191195
113	415 ALDH2	0.00014331	-0.42065978
114	336 LARP4B	1.40E-05	-0.42054284
115	749 AC007405.6	0.01050681	-0.42041957
116	108 EEF2	2.13E-15	-0.41991216
117	373 MAP3K13	3.78E-05	-0.41890886
118	528 SESN2	0.00101963	-0.41867942
119	407 QSOX1	0.00011057	-0.418256
120	545 PFKFB2	0.00122142	-0.41819087
121	153 TMED2	1.91E-11	-0.4113964
122	327 PSAP	1.08E-05	-0.41032988
123	262 CTSD	7.25E-07	-0.40922874
124	786 FITM2	0.01541523	-0.40769103
125	287 SPTSSA	2.19E-06	-0.40722167
126	712 SLC30A1	0.00813803	-0.40579525
127	317 SRPRB	7.52E-06	-0.40515378
128	187 FAM162A	4.05E-09	-0.40512472
129	831 UQCR11	0.01963842	-0.40330145
130	492 SRCAP	0.00053627	-0.4032859
131	628 ATF4	0.00361245	-0.39977446
132	465 FNIP2	0.00036064	-0.39950243

133	706 TUBB2A	0.00773792	-0.39928818
134	449 GBE1	0.00027486	-0.3970332
135	282 CNPPD1	1.90E-06	-0.39662755
136	382 RBPJ	4.45E-05	-0.39619166
137	442 COQ10B	0.00023798	-0.39363703
138	163 B4GALT1	3.79E-10	-0.39298096
139	462 DNAJC3	0.00033927	-0.39124662
140	586 ABHD2	0.00233343	-0.39047134
141	397 SURF6	7.93E-05	-0.3901259
142	783 C1QBP	0.01392594	-0.39010403
143	251 HIPK2	4.61E-07	-0.38917375
144	763 ZBTB11	0.01172747	-0.38685015
145	703 ARL6IP5	0.0073248	-0.3857159
146	205 LAMC1	2.49E-08	-0.38490126
147	178 PRDX6	1.95E-09	-0.3846667
148	233 MRPL41	2.59E-07	-0.38312063
149	455 AK2	0.00028847	-0.382073
150	520 C4orf32	0.00086544	-0.38200867
151	437 PDCD2	0.00021857	-0.3804305
152	694 ACO1	0.00692162	-0.37871572
153	861 LMO4	0.02481478	-0.37801513
154	468 RHOQ	0.00037564	-0.37673435
155	546 COL4A3BP	0.00122142	-0.37609574
156	570 AXL	0.00198384	-0.37470797
157	318 MAP2K1	7.94E-06	-0.37081715
158	225 HSPA9	1.75E-07	-0.36851174
159	699 C12orf76	0.00714377	-0.36848608
160	429 C6orf120	0.00019321	-0.3684197
161	791 RPF2	0.01588189	-0.36735594
162	825 FAM105A	0.01861272	-0.36717793
163	535 PA2G4	0.0011368	-0.36662802
164	524 PAK1IP1	0.00095092	-0.36652413
165	666 TMED4	0.00568726	-0.3643071
166	444 SNHG7	0.00024882	-0.36093226
167	453 THOC2	0.00028245	-0.3605755
168	316 ATP6AP2	7.44E-06	-0.36055496
169	853 VIMP	0.02353387	-0.35979986
170	668 XPR1	0.00571838	-0.35904363
171	349 ROR1	2.14E-05	-0.35904187
172	645 PDE4D	0.00465402	-0.35768515
173	639 RAB31	0.00448505	-0.35759744
174	736 RPS19BP1	0.00939419	-0.3549955
175	670 OCLN	0.00574344	-0.35488978
176	689 POMP	0.00667079	-0.35454044
177	932 ABHD13	0.03708566	-0.35391587

178	517 RIT1	0.00083002	-0.35177377
179	616 GRPEL1	0.00316153	-0.35163605
180	324 ATP1B1	1.02E-05	-0.35093978
181	519 TMEM106B	0.00086544	-0.3504697
182	326 EIF3I	1.06E-05	-0.3481429
183	375 PCYT1A	3.84E-05	-0.34761265
184	197 RPLP2	1.13E-08	-0.34722504
185	792 SNHG8	0.01588189	-0.34532705
186	540 TNFRSF10D	0.00113712	-0.3448649
187	813 TPPP3	0.01803067	-0.34441677
188	539 PPP2CB	0.0011368	-0.3440145
189	788 LNX2	0.01550346	-0.3434308
190	693 ABHD12	0.00692162	-0.34303087
191	450 MTRNR2L1	0.00027638	-0.34291232
192	83 ATP6V1G1	2.03E-19	-0.342552
193	765 SLC39A14	0.01207371	-0.34233493
194	509 DESI2	0.00072969	-0.34123033
195	638 MAN1A1	0.00433563	-0.33856067
196	390 XPOT	5.67E-05	-0.33778366
197	606 SPSB1	0.00288267	-0.3375009
198	302 EIF5AL1	4.62E-06	-0.3368239
199	392 COPS8	6.26E-05	-0.33674082
200	456 NCBP2-AS2	0.00030466	-0.3364975
201	227 RSL24D1	2.06E-07	-0.33617765
202	461 ASAH1	0.00031976	-0.33592385
203	774 NKX2-1	0.01300241	-0.3348455
204	351 DPY19L1	2.29E-05	-0.33483174
205	202 NARS	2.07E-08	-0.3344241
206	208 TM9SF2	2.90E-08	-0.33438954
207	850 PIP4K2A	0.02297462	-0.33403134
208	514 STAM	0.00080496	-0.3332702
209	688 LYRM7	0.00666969	-0.33302146
210	440 RAB14	0.00023275	-0.3328394
211	418 LRP10	0.00014923	-0.33193383
212	680 SLC7A1	0.00622931	-0.33000144
213	925 NDFIP1	0.03585443	-0.3299942
214	575 DNAJC10	0.00205298	-0.32872036
215	212 RPL4	5.06E-08	-0.32800388
216	368 FNDC3B	3.26E-05	-0.327271
217	314 TMED9	7.37E-06	-0.3260523
218	548 TMEM87A	0.00123973	-0.32571042
219	562 GLS	0.0015391	-0.32278374
220	503 ARFGAP3	0.00070366	-0.31946352
221	597 MAP1B	0.00262217	-0.31719556
222	217 RAD23B	6.76E-08	-0.31507036

223	479	SRSF8	0.00043657	-0.31340244
224	715	TRIB3	0.00819229	-0.3124272
225	777	NIFK	0.01324442	-0.31181523
226	526	ILF3-AS1	0.00100699	-0.311642
227	193	CSTB	9.05E-09	-0.31095326
228	881	MBD2	0.02840924	-0.31074706
229	484	RAC3	0.00048248	-0.30996686
230	762	CREBL2	0.01161718	-0.30980098
231	726	MRPS30	0.00873233	-0.30977297
232	855	SURF2	0.023569	-0.30951747
233	626	CHMP4C	0.0034432	-0.30856508
234	921	FAM129C	0.03482028	-0.30815822
235	483	SELT	0.00047961	-0.3075088
236	230	GHITM	2.37E-07	-0.30696177
237	487	MAPK1	0.00049979	-0.30512005
238	195	RPL36AL	1.09E-08	-0.304554
239	319	LYPLA1	8.74E-06	-0.30442196
240	629	CBX6	0.00366144	-0.30408368
241	374	RPL13A	3.83E-05	-0.30373752
242	563	NDUFA1	0.0016184	-0.30214933
243	896	TMEM167B	0.03025902	-0.30207288
244	240	SF3B5	3.16E-07	-0.3017326
245	201	YBX3	1.82E-08	-0.30155498
246	697	RPS6KA3	0.00698808	-0.30008712
247	598	TXN	0.00262217	-0.29818064
248	596	RAB3GAP2	0.00255227	-0.297838
249	383	TAF13	5.08E-05	-0.29756486
250	653	LAMTOR3	0.00486218	-0.29661608
251	660	CHPF	0.00516206	-0.29656023
252	301	PDAP1	4.41E-06	-0.295848
253	633	ID4	0.00403431	-0.29543468
254	661	NHSL1	0.00521692	-0.29538572
255	321	CYCS	1.00E-05	-0.29447517
256	355	FKBP1A	2.37E-05	-0.29274526
257	218	PSMB1	8.12E-08	-0.29227638
258	235	MT-RNR2	2.81E-07	-0.29222834
259	732	LDLR	0.00902043	-0.2898084
260	553	PTAR1	0.00128961	-0.2872292
261	623	CHMP2B	0.00339758	-0.2862462
262	554	RPLP1	0.00128961	-0.2861945
263	790	RNF13	0.01562727	-0.28611252
264	724	RPL37	0.00859441	-0.28590512
265	448	MXRA7	0.00027347	-0.2858024
266	192	FASN	6.79E-09	-0.28506917
267	547	RPL24	0.00122439	-0.28443372

268	747 ATP5F1	0.00982515	-0.28431758
269	510 LAMP1	0.00074163	-0.28337142
270	182 TOMM20	2.77E-09	-0.2810836
271	826 TTC37	0.01862213	-0.28107283
272	878 RRS1	0.02827279	-0.28073236
273	323 TSPAN13	1.02E-05	-0.27963683
274	552 CMPK1	0.00127444	-0.27943403
275	719 CUTC	0.0082879	-0.2792844
276	802 YIPF6	0.01710824	-0.279268
277	942 TPMT	0.03937523	-0.27924556
278	840 ATP2C2	0.02142479	-0.2774113
279	816 MSRB1	0.01812428	-0.2770961
280	934 C2orf88	0.03757477	-0.27663672
281	677 YKT6	0.00607388	-0.2762874
282	388 EMD	5.52E-05	-0.27620846
283	800 ARRDC3	0.01701146	-0.27562907
284	880 TMEM184C	0.02837365	-0.2750402
285	214 RPS24	5.58E-08	-0.2745088
286	829 LYPLA2	0.01962788	-0.2743422
287	691 LONP2	0.00676151	-0.2741992
288	618 CAB39	0.00321021	-0.27288565
289	664 SNX9	0.00545149	-0.27121523
290	758 RAB18	0.01124315	-0.26999557
291	951 MED13L	0.04062907	-0.26993355
292	478 CCT3	0.00043529	-0.2695684
293	501 FZD5	0.00066276	-0.2695052
294	781 UFM1	0.01358275	-0.2694179
295	330 PPA1	1.12E-05	-0.26923218
296	857 VKORC1L1	0.02408883	-0.2691416
297	347 VCP	1.93E-05	-0.26894248
298	445 TAF7	0.00025744	-0.26836702
299	637 GADD45GIP1	0.00433563	-0.26826945
300	631 MRPL12	0.00383591	-0.2672262
301	522 RAB7A	0.00089873	-0.26680526
302	737 LEPROT	0.00940599	-0.26659918
303	980 PPP2R3A	0.04799138	-0.26595488
304	814 SEC62	0.01803067	-0.2658278
305	742 TOB1	0.0095921	-0.26532686
306	573 KRT10	0.00201221	-0.26487178
307	989 MGAT5	0.04984593	-0.26458517
308	875 EIF3J	0.027991	-0.26368788
309	734 EPRS	0.00922437	-0.26164186
310	834 GTF2H3	0.02012811	-0.26023063
311	650 SERINC3	0.00471221	-0.2599777
312	907 FASTKD5	0.03147549	-0.2593536

313	607 PSMD3	0.00289449	-0.25743818
314	770 PSMD10	0.01245367	-0.25702646
315	603 AP2B1	0.00276699	-0.256968
316	656 SERINC1	0.00511276	-0.25601566
317	591 ARL8B	0.0025054	-0.2555949
318	499 RBX1	0.00063702	-0.25516257
319	515 DKC1	0.00080888	-0.25350207
320	764 UTP3	0.0118812	-0.2527731
321	605 RPL11	0.00280809	-0.25168356
322	625 PLA2G12A	0.00343311	-0.25167385
323	744 PSMD11	0.00961131	-0.25165144
324	915 UQCR10	0.0335256	-0.2515677
325	565 DDB1	0.00174407	-0.25126603
326	417 TUFM	0.00014494	-0.25090322
327	860 NSA2	0.02467846	-0.24939013
328	895 SOWAHC	0.03005367	-0.24925959
329	947 UBE2O	0.0402616	-0.24655369
330	577 WASF2	0.00206527	-0.24594805
331	721 NPC1	0.00853071	-0.24422224
332	820 TKT	0.01828574	-0.24307583
333	872 PSMD5	0.02742712	-0.24277848
334	779 RPL36	0.01358275	-0.24157608
335	767 MYL12A	0.01245367	-0.24102038
336	681 PIGM	0.00622931	-0.24084519
337	679 NUDC	0.00615696	-0.23910192
338	898 RP5-850E9.3	0.03077842	-0.23830299
339	901 SRXN1	0.03077842	-0.23830299
340	569 RNF139	0.00194385	-0.23814629
341	739 RPL9	0.00948644	-0.23558302
342	738 GLRX3	0.00941782	-0.23532994
343	447 PSMB2	0.00027218	-0.23501748
344	919 PFDN2	0.03432977	-0.23473586
345	641 TOR1AIP2	0.00453691	-0.23380232
346	960 TIMM10B	0.04263023	-0.23371364
347	926 SRM	0.03585671	-0.23231511
348	470 HIGD2A	0.00038543	-0.23138556
349	837 PNO1	0.02102301	-0.23062046
350	735 PSMB6	0.00922437	-0.22980514
351	827 MAN1A2	0.01878275	-0.22968192
352	930 DPP8	0.03674439	-0.22956839
353	986 RP11-379H1f	0.04926628	-0.22735962
354	889 EIF2B1	0.02935297	-0.22622502
355	68 MT-ND2	7.91E-22	-0.22591062
356	945 AP1G1	0.0399031	-0.22569753
357	955 SYAP1	0.04141676	-0.22372341

358	756 MBIP	0.01109739	-0.22065425
359	648 MRPS17	0.00465402	-0.22009072
360	908 PGK1	0.03162361	-0.21969643
361	935 KCTD20	0.03762005	-0.21921666
362	464 PABPC1	0.00035761	-0.21864569
363	692 POLR2L	0.00690577	-0.21855314
364	471 RPS12	0.000388	-0.21854183
365	864 MMP24-AS1	0.02526989	-0.217648
366	649 LARP1	0.00468952	-0.21663363
367	773 SUPT6H	0.01298951	-0.21651192
368	952 B3GALT6	0.04135462	-0.21353613
369	988 CANX	0.04965568	-0.21088639
370	974 MRPL50	0.04666578	-0.21070805
371	808 RHOBTB3	0.01745789	-0.21068546
372	386 RPS21	5.38E-05	-0.21060207
373	584 ODC1	0.00226077	-0.20987168
374	521 ENO1	0.0008888	-0.20700115
375	549 ZNF330	0.00125715	-0.20591617
376	684 HSBP1	0.0063462	-0.20511954
377	654 RNF11	0.00488567	-0.20255655
378	751 WWTR1	0.01080318	-0.20241594
379	817 RP11-603J24	0.01812428	-0.20198728
380	579 RPL37A	0.00212437	-0.20198303
381	876 WDR43	0.0281107	-0.20010419
382	870 MT-TI	0.02725772	-0.19806385
383	740 CDC37	0.00958003	-0.19761755
384	367 ST13	3.24E-05	-0.1970168
385	962 ARHGAP1	0.04266569	-0.19626814
386	948 TMEM30A	0.04030996	-0.1956849
387	922 PI4K2A	0.03482028	-0.19485897
388	965 C9orf78	0.04514483	-0.19439702
389	833 EIF2S3	0.01984562	-0.19171648
390	918 HSPBP1	0.03409184	-0.19086355
391	678 IMP3	0.00614602	-0.1905025
392	981 SCYL3	0.04799138	-0.18986115
393	978 MT-TV	0.0475151	-0.18977503
394	669 MT-RNR1	0.00574344	-0.18850653
395	711 ID1	0.00813803	-0.18400495
396	795 HADHA	0.01606044	-0.18277098
397	906 RPS29	0.03134981	-0.18058948
398	917 NFX1	0.03399584	-0.1803783
399	599 COX8A	0.00264287	-0.17897892
400	920 VAPA	0.0347601	-0.17748168
401	365 MT-ND5	3.14E-05	-0.17626941
402	873 JAGN1	0.02773434	-0.17573315

403	968	TSR3	0.04552852	-0.17429245
404	923	UQCRC2	0.03502263	-0.17356983
405	946	RPL39	0.04014081	-0.16635853
406	839	ACTR2	0.02126436	-0.1644054
407	882	CS	0.02840924	-0.15909725
408	566	EIF4B	0.00175658	-0.15780227
409	428	RPS4X	0.00018767	-0.15454556
410	725	SDC4	0.00865514	-0.15369979
411	959	UQCRFS1	0.04258871	-0.14975278
412	900	CCNI	0.03077842	-0.14548141
413	987	COL1A1	0.04964041	-0.14492899
414	223	MT-ND1	1.16E-07	-0.1328889
415	859	UBE2Q1	0.02442023	-0.13212037
416	990	TOMM22	0.04987227	-0.1300407
417	849	MT-ATP8	0.02287498	-0.10843589
418	446	MT-ATP6	0.00026847	-0.059870772
419	594	MT-ND4	0.00252038	-0.041987043

Gene list, biased for non-iAEC2 cluster, ranked by expression ratio

index	gene	Qvalue	expr. ratio
0	1 BEX1	2.87E-90	2.217002
1	2 COL2A1	7.82E-86	1.9555119
2	4 KITLG	6.13E-67	1.9414654
3	10 EDN1	3.31E-44	1.6984352
4	18 GABRA2	1.48E-34	1.5462638
5	21 BAMBI	6.59E-34	1.4850025
6	34 UGT8	2.05E-27	1.4687635
7	14 PRSS23	1.14E-40	1.40404
8	30 CCNA2	2.15E-29	1.379287
9	8 DPYSL3	4.81E-47	1.344336
10	6 TMPO	9.34E-54	1.3304533
11	98 RRM2	2.38E-16	1.3271048
12	55 KIFC1	2.43E-24	1.3060969
13	12 DHFR	8.00E-42	1.2852827
14	28 ASF1B	3.21E-30	1.2851458
15	17 MYBL2	5.21E-36	1.2253983
16	57 GINS1	6.15E-24	1.2216958
17	46 TACC3	3.86E-26	1.220536
18	5 COL4A2	6.55E-61	1.208812
19	63 PRPS2	2.33E-23	1.1991291
20	54 SLC2A1	1.52E-24	1.1676862
21	261 PITX1	7.12E-07	1.1310862
22	36 FZD4	3.76E-27	1.1267244
23	42 LAMA1	2.37E-26	1.126321
24	25 SP5	4.76E-32	1.1229258
25	22 DNAJC15	8.27E-34	1.1199932
26	7 IDH2	3.35E-48	1.1149178
27	100 DSCC1	4.20E-16	1.1083556
28	23 TPST1	5.00E-33	1.1077023
29	65 CDH17	1.88E-22	1.1045524
30	59 MCM6	6.87E-24	1.0688194
31	104 HELLS	1.09E-15	1.0626085
32	15 COL4A1	1.78E-39	1.0501117
33	40 WEE1	8.89E-27	1.0388135
34	191 BARD1	6.56E-09	1.0384338
35	112 THBS1	4.94E-15	1.0202446
36	188 RGS5	4.10E-09	1.0176977
37	78 MSX2	4.70E-20	1.0175916
38	109 CENPF	2.85E-15	1.0156205
39	32 RAB3B	4.09E-28	1.0067799
40	74 HIST1H4C	1.12E-20	0.9955801
41	105 MYCN	1.14E-15	0.9823137
42	79 PCDH7	5.97E-20	0.97996277

43	85 SKA1	6.02E-19	0.97744983
44	37 LYPD1	4.82E-27	0.96862787
45	75 TRIP13	1.89E-20	0.9672211
46	16 FSTL1	1.47E-38	0.9658832
47	96 AC020571.3	1.22E-16	0.96497
48	9 MARCKS	1.41E-44	0.9596343
49	13 ZNF703	1.08E-41	0.94803274
50	268 ESCO2	1.05E-06	0.94065315
51	51 MCM2	1.32E-24	0.93843305
52	47 CDH2	8.81E-26	0.93394816
53	43 SBK1	3.52E-26	0.9327373
54	86 NKD1	6.29E-19	0.93071955
55	50 C12orf75	9.59E-25	0.92602617
56	110 KALRN	4.65E-15	0.9254029
57	11 SOX4	1.33E-43	0.9170737
58	157 MRAS	6.81E-11	0.91701305
59	87 LGALS3	1.86E-18	0.899047
60	138 KIF4A	2.25E-12	0.8963975
61	106 E2F1	1.32E-15	0.8956093
62	69 IGDCC3	1.90E-21	0.891647
63	181 RASGRP1	2.77E-09	0.89114577
64	49 H2AFY2	4.26E-25	0.8787385
65	77 FEN1	4.59E-20	0.86433816
66	824 SULT1E1	0.01859422	0.8639584
67	141 CYR1	3.84E-12	0.8589991
68	72 FREM2	3.59E-21	0.84874487
69	172 CCNB1	9.33E-10	0.84257686
70	107 BUB1B	1.91E-15	0.83893865
71	45 DEK	3.79E-26	0.8348191
72	140 CDCA4	2.35E-12	0.83382106
73	114 UBE2T	6.09E-15	0.8334067
74	162 ARHGAP11A	2.47E-10	0.82309866
75	26 HMGN2	2.08E-31	0.8206467
76	190 PRR15	5.66E-09	0.81982803
77	147 KIF11	1.16E-11	0.81518227
78	226 CEP55	1.75E-07	0.8133082
79	189 DEPDC1B	5.04E-09	0.81314635
80	129 JARID2	1.00E-13	0.80692124
81	3 MARCKSL1	1.95E-69	0.80232465
82	61 GATA6	1.13E-23	0.7980611
83	92 MMP14	3.48E-17	0.79343426
84	152 RFC3	1.60E-11	0.78406155
85	101 CDK2	6.45E-16	0.7718235
86	139 RFWD3	2.31E-12	0.7716685
87	33 TUBA1A	1.76E-27	0.767285

88	73 SKIL	1.11E-20	0.7623427
89	131 SORD	1.60E-13	0.76143426
90	295 TGFB3	3.46E-06	0.7491344
91	19 CBX5	2.05E-34	0.74862754
92	272 TSPAN2	1.21E-06	0.74773234
93	457 RGS3	0.00030806	0.7451583
94	67 TMEM98	3.42E-22	0.74388933
95	340 LGR5	1.56E-05	0.7431296
96	145 RP2	7.55E-12	0.7415241
97	286 POLQ	2.14E-06	0.730119
98	128 ALDH1A1	1.00E-13	0.7294452
99	161 ADAMTS7	2.47E-10	0.7139066
100	219 ENC1	8.17E-08	0.70961475
101	102 FAM84B	7.34E-16	0.7052776
102	60 TNFRSF19	1.12E-23	0.7001852
103	260 DSC2	6.96E-07	0.6971584
104	413 KCNJ8	0.00012874	0.69686747
105	99 QPRT	3.08E-16	0.69296855
106	377 ACKR3	4.17E-05	0.68632144
107	95 NUDT21	7.39E-17	0.6836651
108	249 GTSE1	4.12E-07	0.6826179
109	64 FSCN1	3.14E-23	0.6753785
110	239 MAD2L1	2.91E-07	0.6672177
111	155 NUP210	2.87E-11	0.66452456
112	118 TFDP1	2.51E-14	0.65656507
113	62 PARP1	1.46E-23	0.6556044
114	506 PIK3AP1	0.00071311	0.6555459
115	154 CDT1	2.25E-11	0.65520763
116	115 ARID3A	9.86E-15	0.6536915
117	199 ZNF738	1.45E-08	0.6514899
118	170 CDC6	7.90E-10	0.6508038
119	250 VRK1	4.12E-07	0.6498174
120	167 GGH	5.92E-10	0.6476308
121	126 TYMS	9.69E-14	0.645132
122	266 PRTFDC1	9.37E-07	0.64502
123	328 CTGF	1.08E-05	0.6443041
124	466 TBX3	0.00036064	0.64333737
125	53 TPM4	1.48E-24	0.6424735
126	491 COL5A1	0.00053616	0.63915485
127	220 CAMK2N1	8.47E-08	0.6281335
128	345 VASN	1.83E-05	0.62448794
129	174 PRTG	1.23E-09	0.62187135
130	209 CASP6	3.12E-08	0.6179708
131	160 SMC1A	2.07E-10	0.61674994
132	344 RASGRF2	1.81E-05	0.6093625

133	342 LIG2	1.68E-05	0.60723776
134	151 BMF	1.57E-11	0.60699904
135	284 RTKN2	1.97E-06	0.60525036
136	495 SRSF7	0.00054368	0.5964703
137	273 TMSB15A	1.26E-06	0.5952727
138	207 SSBP3	2.82E-08	0.5884442
139	183 GINS2	2.87E-09	0.58651924
140	169 SLC12A7	7.52E-10	0.58609784
141	142 C11orf84	3.94E-12	0.5822457
142	293 ADAMTS19	3.08E-06	0.5802781
143	168 FBN2	6.90E-10	0.5770747
144	322 CDH3	1.01E-05	0.57638526
145	176 EFNB2	1.68E-09	0.5732258
146	387 TLE1	5.52E-05	0.571322
147	352 SVIP	2.29E-05	0.5711178
148	88 CNN3	3.39E-18	0.570366
149	206 VANG2	2.58E-08	0.5676885
150	647 DAB1	0.00465402	0.56716675
151	132 EIF4EBP2	2.35E-13	0.5633869
152	533 PKIA	0.0011004	0.56274176
153	210 B4GALT6	4.10E-08	0.5611279
154	180 LRRN1	2.77E-09	0.55989784
155	283 CBX2	1.93E-06	0.55897415
156	421 KIF14	0.00015559	0.55648667
157	149 PAPSS1	1.36E-11	0.55416864
158	173 ORC6	9.44E-10	0.5491194
159	263 CCDC34	8.00E-07	0.54676473
160	652 TMPRSS2	0.00482146	0.5463186
161	542 RMI1	0.00119793	0.5423904
162	82 BASP1	1.38E-19	0.53810877
163	232 CEP78	2.59E-07	0.53776854
164	309 HMGB1	6.00E-06	0.5376427
165	130 LSM3	1.55E-13	0.53723615
166	159 TMEM123	1.66E-10	0.53575486
167	203 FAM149B1	2.29E-08	0.5353595
168	891 PDZRN3	0.02935436	0.53269917
169	252 KLHL23	4.97E-07	0.53095067
170	164 HS2ST1	4.77E-10	0.528717
171	117 TSPAN6	1.68E-14	0.52684796
172	431 CHEK1	0.00019858	0.5254046
173	389 CHAF1A	5.53E-05	0.5219815
174	333 MMD	1.30E-05	0.52011305
175	184 YEATS4	2.87E-09	0.51865613
176	564 CYP1B1	0.0016724	0.518393
177	194 KIRREL	1.07E-08	0.517404

178	125 FADS1	9.69E-14	0.5154166
179	329 HUNK	1.11E-05	0.5153324
180	267 C4orf46	9.70E-07	0.5130972
181	568 BRIP1	0.00194385	0.50847906
182	91 CTXN1	3.24E-17	0.50812906
183	416 PBX1	0.0001439	0.5065739
184	120 MEX3A	4.67E-14	0.50413436
185	335 RP11-303E16	1.35E-05	0.50357926
186	481 CROT	0.00047829	0.5025537
187	307 SLC2A3	5.05E-06	0.5014832
188	276 FZD7	1.44E-06	0.4987348
189	585 KIF26B	0.00228008	0.49748972
190	838 FAM83D	0.02126436	0.49535504
191	236 MTAP	2.84E-07	0.49463284
192	451 FAM110B	0.00027638	0.49343795
193	343 MND1	1.75E-05	0.4914289
194	308 SLC20A1	5.35E-06	0.49141213
195	175 CDK6	1.67E-09	0.4904609
196	259 NUP50	6.91E-07	0.48836508
197	248 PTPN14	4.12E-07	0.48831567
198	124 FUCA2	6.23E-14	0.48721933
199	571 SKA2	0.00198739	0.4850694
200	369 VIL1	3.30E-05	0.48333484
201	538 RNF144A	0.0011368	0.47965717
202	555 WLS	0.00130376	0.47727135
203	274 BMP7	1.35E-06	0.4767923
204	90 JUND	2.38E-17	0.47473478
205	281 SOX9	1.88E-06	0.47292542
206	439 ID2	0.00022887	0.47145134
207	663 LSAMP	0.0054121	0.4703765
208	512 FGF9	0.00078663	0.4682192
209	121 NUCKS1	4.72E-14	0.46715552
210	801 SOX17	0.01706189	0.46585533
211	460 SPDL1	0.00031658	0.46465194
212	537 SPC25	0.0011368	0.46255308
213	486 MMS22L	0.00049506	0.46198532
214	498 PGM2L1	0.00063688	0.45948303
215	402 HIP1	9.50E-05	0.4581092
216	269 QSER1	1.15E-06	0.4580551
217	280 CRISPLD1	1.74E-06	0.45674306
218	644 DTL	0.00465402	0.4553765
219	359 ING2	2.57E-05	0.4534824
220	277 SHH	1.47E-06	0.45200703
221	242 JUN	3.24E-07	0.44965762
222	799 ISL1	0.01695698	0.449177

223	247	PATL1	3.97E-07	0.44861177
224	234	SPARC	2.61E-07	0.44806638
225	376	PARD6G	3.84E-05	0.44768283
226	572	GUCY1A2	0.00200271	0.44682622
227	717	DUSP5	0.00819327	0.44619256
228	536	JADE3	0.0011368	0.44614875
229	696	SEMA6A	0.00692162	0.44370303
230	229	FAM210B	2.11E-07	0.44127873
231	434	MAML1	0.00020667	0.43871394
232	215	PDLIM1	5.92E-08	0.43806198
233	363	RBBP4	2.80E-05	0.43748108
234	378	FRAS1	4.21E-05	0.43668208
235	216	ACTN1	6.53E-08	0.43301892
236	454	FADS2	0.00028847	0.4328198
237	490	PELI1	0.00053026	0.43168977
238	806	8-Sep	0.01733343	0.43167394
239	325	RASL11B	1.03E-05	0.4313332
240	405	RAB11FIP4	0.00010485	0.43003085
241	441	MIS18A	0.00023558	0.42725208
242	166	MOB1A	5.29E-10	0.42553273
243	270	TMEM106C	1.15E-06	0.42552018
244	525	MMP16	0.00095092	0.424837
245	231	ABL1	2.40E-07	0.42424664
246	371	UBTD2	3.63E-05	0.42337242
247	224	FOXA1	1.45E-07	0.4231962
248	243	TTYH3	3.49E-07	0.42315337
249	608	TMED8	0.00292392	0.42241797
250	488	HSPB11	0.00051435	0.42235535
251	406	ALDH18A1	0.00010807	0.41898328
252	530	DSP	0.00102999	0.4189137
253	395	CDK2AP2	7.42E-05	0.41756722
254	673	PLEKHG4B	0.00600148	0.415885
255	353	MESDC1	2.32E-05	0.41491333
256	866	TCF4	0.02636749	0.4126878
257	305	ARID5B	4.78E-06	0.40702316
258	659	TMEM47	0.00515004	0.4068797
259	221	SMS	9.71E-08	0.40683326
260	380	CCND2	4.22E-05	0.40678746
261	493	ROCK2	0.00054166	0.40597138
262	404	SLC12A2	0.00010279	0.40543157
263	467	PGM2	0.00036615	0.4054151
264	409	DYNLT3	0.00011459	0.40508628
265	728	MYRF	0.00874966	0.40474764
266	410	CPE	0.00011932	0.40431666
267	398	CLCN5	8.33E-05	0.40415576

268	651	CACNA1E	0.00481022	0.39862484
269	489	SIK1	0.00052175	0.39656547
270	403	SMTNL2	9.64E-05	0.3952415
271	422	DCP2	0.00016231	0.39479604
272	396	PAIP1	7.74E-05	0.3941666
273	561	TENM3	0.00152393	0.3925484
274	211	HMGB3	4.33E-08	0.3920586
275	213	CLDN6	5.50E-08	0.39181784
276	84	PEBP1	2.20E-19	0.3906678
277	632	RP5-1085F17	0.00392568	0.3902422
278	557	RERE	0.00136382	0.39023077
279	432	HPRT1	0.00019967	0.38937938
280	394	NUP153	7.08E-05	0.38932332
281	933	SLC25A40	0.03742729	0.38927066
282	430	ARPC5	0.0001977	0.38815698
283	94	H3F3A	4.01E-17	0.3874126
284	393	SMARCC1	6.75E-05	0.38626984
285	298	CSNK1G2	3.67E-06	0.38510406
286	400	CASP2	9.12E-05	0.38505033
287	381	HAUS6	4.25E-05	0.38489375
288	346	PPM1H	1.93E-05	0.3844137
289	636	SLIT3	0.00426044	0.38276702
290	551	DOPEY2	0.00127444	0.3820324
291	246	FZD3	3.84E-07	0.38152975
292	727	TBC1D9	0.00873869	0.38008118
293	502	CREB3L2	0.00068521	0.37997282
294	752	EREG	0.01086703	0.37996924
295	500	PPP2R1B	0.00066011	0.37995207
296	592	FAM171A1	0.00251426	0.37932298
297	682	C1GALT1	0.0062624	0.379045
298	111	HNRNPA0	4.87E-15	0.37901327
299	480	FZD2	0.00043657	0.37835056
300	391	SRF	5.98E-05	0.37761527
301	331	KPNA3	1.19E-05	0.37632442
302	443	PCGF3	0.000238	0.37501544
303	412	ISOC1	0.0001214	0.37357783
304	818	AKAP5	0.01818241	0.37351927
305	334	PPIF	1.30E-05	0.3734156
306	527	SYT13	0.00101963	0.37286174
307	279	CTSC	1.65E-06	0.37168798
308	812	FOS	0.01777497	0.37021738
309	613	NASP	0.00307707	0.369121
310	290	BRI3BP	2.58E-06	0.36912006
311	847	SOS1	0.02272108	0.36795712
312	435	SIK2	0.00021585	0.36526957

313	583	RAP2B	0.00224226	0.36196598
314	408	ICMT	0.00011388	0.36130998
315	780	ULK1	0.01358275	0.36072642
316	805	ZNF571	0.01728647	0.35973415
317	494	CKAP2	0.00054166	0.3581951
318	890	HNRNPD	0.02935297	0.35812667
319	472	SUPT16H	0.00040745	0.35796538
320	720	C9orf40	0.00831803	0.3574743
321	508	POLR3K	0.00071951	0.35651967
322	311	HAUS1	6.26E-06	0.35621366
323	299	RAD21	3.69E-06	0.35565275
324	423	UBE2S	0.00016243	0.35562438
325	741	ZNF395	0.00958003	0.35559466
326	789	FAM171A2	0.01554194	0.3552652
327	611	MIS18BP1	0.00301647	0.3539769
328	667	CD74	0.00571603	0.3522827
329	761	ALPK3	0.01159671	0.3517983
330	815	RNF168	0.01803517	0.35163185
331	958	ZNF850	0.04240451	0.35006148
332	424	ACVR1B	0.00016243	0.34997496
333	516	HS6ST1	0.00080888	0.3483113
334	658	ZNF100	0.00515004	0.3475323
335	433	ADI1	0.00020369	0.34702262
336	984	RSPO3	0.04865402	0.3470144
337	529	CARHSP1	0.00101963	0.3469895
338	600	AC011043.1	0.00264687	0.34695625
339	823	PRKAA2	0.01859422	0.34524998
340	782	AURKB	0.01361346	0.34442312
341	475	FN3KRP	0.00041727	0.34329635
342	463	GALNT1	0.00034244	0.34222594
343	936	ZNF704	0.03767397	0.34179717
344	842	DIP2C	0.02171749	0.3412141
345	701	NFYB	0.00727347	0.34037578
346	695	DCUN1D1	0.00692162	0.33983478
347	254	ARL6IP1	5.26E-07	0.3396081
348	556	RAB3IP	0.00130892	0.3395331
349	358	SNHG14	2.56E-05	0.3392389
350	672	IL17RD	0.00598272	0.337784
351	714	TWSG1	0.00819229	0.33702227
352	401	NIPSNAP1	9.13E-05	0.33680236
353	574	UBASH3B	0.00204089	0.33650845
354	700	HEBP1	0.0071795	0.33618903
355	341	IPO9	1.61E-05	0.33586723
356	640	ANP32E	0.00448505	0.334503
357	604	ZNF462	0.00276699	0.334421

358	940 DKK1.00	0.03893564	0.33421162
359	778 ANTXR1	0.01328448	0.3340999
360	884 DIRC2	0.02853188	0.33390915
361	671 CXXC5	0.00576465	0.33357522
362	156 TTR	3.53E-11	0.332492
363	769 ZNF618	0.01245367	0.33243653
364	304 NBPF1	4.76E-06	0.3320853
365	332 SNN	1.23E-05	0.3320778
366	425 KHDRBS1	0.00016377	0.33206812
367	146 KPNB1	9.48E-12	0.33198723
368	746 MOB3B	0.0097517	0.3313616
369	593 H2AFV	0.00251659	0.33079436
370	835 CDCA8	0.02014808	0.33028066
371	753 RIF1	0.01091997	0.32977718
372	722 AGO1	0.00859441	0.328411
373	436 TMEM14A	0.00021585	0.32719037
374	794 SCD5	0.01606044	0.3257176
375	541 NUDT15	0.00114932	0.32500592
376	595 ZWINT	0.00254032	0.32451475
377	438 FAM98B	0.00022611	0.3241925
378	807 DAAM1	0.01741919	0.32335815
379	518 FARP2	0.00085062	0.32309875
380	810 KDELR3	0.01749668	0.32283065
381	237 PXDN	2.84E-07	0.32219058
382	646 POLD3	0.00465402	0.32173806
383	356 APOE	2.37E-05	0.32150206
384	615 BAZ1B	0.00316153	0.32047322
385	357 TUBB2B	2.40E-05	0.31952468
386	944 CDCP1	0.0399031	0.31934288
387	476 IHH	0.00042313	0.31893802
388	894 GM2A	0.02968282	0.3172434
389	589 SOX11	0.00244057	0.31702957
390	531 IGF2BP1	0.00104172	0.31657958
391	419 NCAPD2	0.00015041	0.31639397
392	832 HSPA12A	0.01963842	0.31551433
393	912 CABLES2	0.03312033	0.3132646
394	294 CXADR	3.42E-06	0.31175968
395	474 ADD3	0.00041223	0.31166628
396	938 TMEM167A	0.03857909	0.31140643
397	496 MSI1	0.00060037	0.31012514
398	534 EFHD2	0.00110779	0.30923152
399	713 PLK2	0.00814601	0.30910534
400	306 LAPTM4A	4.78E-06	0.3090501
401	856 UGCG	0.02403642	0.30731046
402	883 RAD18	0.02853188	0.3072521

403	759 NES	0.01149382	0.30657086
404	784 PDS5A	0.01460385	0.30527496
405	830 PKD2	0.01963775	0.30521023
406	766 HNF4A	0.01239801	0.30479163
407	655 TUBG1	0.00496234	0.30457038
408	730 KLHL42	0.00879245	0.30358288
409	982 CDO1	0.04828232	0.30317774
410	879 CTDSPL2	0.02827279	0.30106157
411	687 FARP1	0.0066346	0.30039796
412	685 SHCBP1	0.00635409	0.29985097
413	969 SPP1	0.04564358	0.2991693
414	511 UBE2N	0.00075045	0.29875326
415	718 IRX2	0.00822523	0.29760593
416	949 HMGN3	0.04040392	0.29461598
417	619 ARGLU1	0.00322058	0.29357213
418	863 TRMU	0.02511934	0.29278612
419	630 RP11-386G1	0.00366144	0.2920233
420	513 CKB	0.00078663	0.29113936
421	643 HNRNPDL	0.00459238	0.29084134
422	893 ASAP1	0.02967442	0.28988492
423	937 COL27A1	0.0385153	0.28935292
424	662 CYSTM1	0.00527376	0.28851944
425	674 CPD	0.00603667	0.2874889
426	750 EXT1	0.01057999	0.2862402
427	973 RBM4B	0.04652773	0.28608885
428	675 SGPL1	0.00605068	0.28508538
429	797 EFNB1	0.01635832	0.28402218
430	634 PPIA	0.0040893	0.28369415
431	532 TOPBP1	0.00105326	0.28275222
432	854 TAPT1	0.02353451	0.28216708
433	411 GLDC	0.00012007	0.2811282
434	620 CSRP2	0.00325034	0.28025338
435	809 CACNG4	0.01747511	0.28008062
436	578 MARVELD1	0.00206527	0.27979222
437	497 TAX1BP3	0.00062299	0.27929756
438	868 CXCR4	0.0270582	0.27920744
439	941 TROAP	0.03916817	0.2786749
440	657 FBLN1	0.00515004	0.27747515
441	888 KIF18B	0.02935297	0.27619457
442	967 CMTM7	0.04539356	0.27569968
443	469 DAP	0.000382	0.27546826
444	924 PHF13	0.03570492	0.27502358
445	733 SP1	0.00905784	0.27475762
446	887 OXCT1	0.02928729	0.2746729
447	609 H2AFX	0.00293254	0.27330273

448	278 SFPQ	1.60E-06	0.27256685
449	705 SPIN1	0.00755554	0.27241522
450	757 GPC3	0.01118585	0.27119955
451	482 CLIC4	0.00047829	0.2706187
452	953 CMIP	0.04135462	0.26961797
453	755 KMT2A	0.01109206	0.26948485
454	427 NOTCH3	0.00018252	0.26797223
455	913 TMEM19	0.03330803	0.26732564
456	775 TRIOBP	0.01313135	0.26614586
457	576 RCC2	0.00206527	0.26507232
458	602 NFATC2IP	0.00275309	0.26433477
459	543 CBFB	0.00121184	0.2637291
460	796 UBXN2B	0.01620472	0.2624936
461	846 RPRM	0.02258934	0.26133543
462	927 APOBEC3C	0.03618821	0.25989723
463	821 TRAM2	0.01851623	0.25917977
464	836 RNF44	0.02099212	0.25882465
465	723 CDCA5	0.00859441	0.25799504
466	869 SREK1IP1	0.0270582	0.25781554
467	709 UBXN7	0.0079546	0.25781092
468	899 FBXO2	0.03077842	0.25767657
469	642 ILF2	0.00459238	0.25767314
470	768 PCSK5	0.01245367	0.25759473
471	902 KLF3	0.0308589	0.2575349
472	911 SUZ12	0.03298878	0.2572834
473	544 PIK3C2A	0.00122142	0.25524992
474	841 SERTAD2	0.02165421	0.25465193
475	844 RXRA	0.02223775	0.25422174
476	610 CDC5L	0.00299816	0.25418654
477	708 MFHAS1	0.00791948	0.25360456
478	683 RAB11A	0.0063462	0.25341442
479	828 ZYG11B	0.01901427	0.25322816
480	614 THOC3	0.00308613	0.25291052
481	961 PBK	0.04264316	0.25276908
482	931 TSR2	0.03685584	0.2527392
483	550 DNAJC9	0.00125792	0.2518688
484	686 PNN	0.00641547	0.25102046
485	975 TRIM24	0.04702235	0.25064525
486	558 SMCHD1	0.00138164	0.25003222
487	690 RTF1	0.00669347	0.24981049
488	903 CERK	0.03123562	0.24907178
489	559 HSPA4	0.00151523	0.24867737
490	914 ANKRD10	0.03330803	0.24743342
491	772 ELOVL6	0.01259656	0.24512644
492	771 ANKRD1	0.01259656	0.24477261

493	698 SMC3	0.00704569	0.24390323
494	729 ADNP2	0.00879245	0.2437195
495	867 RAD54L2	0.02643703	0.2423663
496	204 SUMO2	2.38E-08	0.24228778
497	858 PGRMC1	0.02414714	0.24182695
498	745 NUA1	0.00965107	0.23923388
499	385 WDR82	5.38E-05	0.23844643
500	874 FGFR1	0.02773434	0.23799852
501	414 DNAJA1	0.00012874	0.23684967
502	822 NUP155	0.01853459	0.23650725
503	635 GNL1	0.00409202	0.23530139
504	819 TCF20	0.01828558	0.23489197
505	851 PXDC1	0.02302488	0.23427643
506	748 F2R	0.0101331	0.23281585
507	785 MMP15	0.0148586	0.23273696
508	587 H1FX	0.00233343	0.2325054
509	338 BZW1	1.56E-05	0.23195928
510	811 FGD5-AS1	0.01776182	0.23159783
511	954 RPA2	0.04141676	0.23146746
512	754 RP11-977G1	0.0109562	0.23062548
513	966 MCM7	0.04518854	0.23055644
514	804 BRD3	0.01728647	0.22931187
515	885 EPHA7	0.02861353	0.22768791
516	581 CD99	0.00217245	0.2270211
517	964 RASL10B	0.04437376	0.22404246
518	707 CTPS1	0.00785528	0.22402714
519	523 ELAVL1	0.00092521	0.22343701
520	803 ZFP36L2	0.01722698	0.22334023
521	892 KIF1C	0.02959685	0.22296143
522	977 TRIM71	0.0472283	0.22129726
523	897 NELFB	0.03050113	0.21994337
524	622 PTMA	0.00339533	0.21781367
525	886 FBXO21	0.02912883	0.21644408
526	292 SRSF3	2.83E-06	0.21511881
527	929 HINT3	0.03666669	0.2144082
528	702 TRMT5	0.00728255	0.21188176
529	798 PHF5A	0.01674009	0.21154687
530	787 MSRB2	0.01547281	0.21131665
531	905 CELF1	0.03130441	0.21050102
532	972 IER5	0.04641064	0.2078602
533	588 ENAH	0.00242984	0.20622802
534	928 UNC119B	0.03639766	0.20516816
535	580 POLR2A	0.00214573	0.20389028
536	743 KRAS	0.00959669	0.20348333
537	776 GOLIM4	0.01316107	0.20291312

538	848 CADM1	0.02272108	0.20183332
539	956 DCAF16	0.04186883	0.20133096
540	590 SRRM1	0.00246419	0.20127995
541	665 CETN2	0.00560483	0.20102967
542	760 WDR34	0.01153776	0.20007229
543	676 GJA1	0.00606309	0.19615784
544	845 SFT2D2	0.02248585	0.19485587
545	627 CYR61	0.0035958	0.19170265
546	904 CTBP2	0.03130441	0.19055294
547	865 PKDCC	0.02580424	0.18724242
548	710 IGFBP2	0.00810282	0.18711945
549	871 CENPQ	0.0273294	0.18654335
550	976 DHX33	0.04709915	0.185853
551	793 PPDPF	0.01588189	0.1836481
552	877 ADH5	0.02812493	0.18202648
553	963 EBP	0.04356575	0.17693096
554	909 CHAMP1	0.03184603	0.16951753
555	970 POP7	0.04611586	0.16607894
556	704 ZMIZ1	0.00755554	0.16385494
557	939 TULP4	0.03888009	0.16340476
558	983 ELMOD2	0.04856411	0.1633329
559	852 PBRM1	0.02344887	0.15953386
560	943 HNRNPUL1	0.0396997	0.15909788
561	916 SNRNP70	0.03363588	0.1560644
562	843 ERH	0.0221838	0.15424456
563	612 SCD	0.00305928	0.14892416
564	957 RAC1	0.04207925	0.14384218
565	985 HSP90AA1	0.04888388	0.14366783
566	979 ANP32B	0.04766636	0.14123496
567	310 TMSB10	6.06E-06	0.1345089
568	910 B4GALT5	0.03222605	0.13079882
569	950 RP11-102N12	0.04046161	0.095902726
570	971 CRABP2	0.04619125	0.060860325