

Table S1 The marker genes of each subgroup

p_val	avg_logFC	pct.1	pct.2	p_val_adj	cluster	gene	pct.diff
2.25E-131	1.801954	0.938	0.26	3.54E-127	0	SLC9A3R2	0.678
1.71E-127	1.537724	0.963	0.318	2.69E-123	0	EGFL7	0.645
9.13E-118	1.540158	0.953	0.363	1.44E-113	0	RAMP2	0.59
2.36E-116	1.95946	0.849	0.194	3.72E-112	0	TNNT3	0.655
2.08E-115	1.650877	0.854	0.201	3.27E-111	0	TMEM88	0.653
4.55E-115	1.427449	0.965	0.26	7.16E-111	0	VWF	0.705
5.06E-114	1.650691	0.903	0.24	7.96E-110	0	RBP7	0.663
1.31E-112	1.430122	0.975	0.557	2.06E-108	0	IFI27	0.418
1.61E-112	1.551519	0.968	0.39	2.53E-108	0	FABP4	0.578
2.98E-112	1.369359	0.968	0.544	4.68E-108	0	CAV1	0.424
1.24E-107	1.721549	0.901	0.3	1.95E-103	0	ID1	0.601
1.09E-106	1.495228	0.97	0.538	1.72E-102	0	FABP5	0.432
1.32E-104	1.357238	0.859	0.238	2.08E-100	0	S1PR1	0.621
5.23E-102	1.198465	0.965	0.584	8.22E-98	0	GNG11	0.381
1.35E-100	1.206656	0.968	0.538	2.13E-96	0	A2M	0.43
1.71E-98	1.085542	0.983	0.801	2.69E-94	0	HLA-B	0.182
4.14E-98	1.327403	0.849	0.229	6.51E-94	0	EMCN	0.62
4.91E-97	1.066583	0.968	0.368	7.72E-93	0	RNASE1	0.6
1.08E-95	1.407368	0.834	0.268	1.69E-91	0	ICAM2	0.566
2.69E-95	0.992841	0.98	0.806	4.23E-91	0	HLA-C	0.174
2.88E-94	1.189005	0.953	0.538	4.52E-90	0	BST2	0.415
2.04E-91	1.334063	0.871	0.335	3.21E-87	0	ITM2A	0.536
1.06E-89	0.795411	0.99	0.962	1.67E-85	0	TMSB10	0.028
1.44E-89	0.737426	0.99	0.997	2.26E-85	0	B2M	-0.007
1.33E-87	1.280809	0.941	0.372	2.08E-83	0	CD36	0.569
1.69E-87	1.329914	0.725	0.166	2.65E-83	0	F8	0.559
4.19E-87	1.232444	0.832	0.24	6.59E-83	0	ADGRF5	0.592
5.49E-86	1.276066	0.765	0.209	8.64E-82	0	CDH5	0.556
1.00E-85	1.373244	0.686	0.134	1.58E-81	0	SLC14A1	0.552
1.34E-85	1.53369	0.678	0.126	2.11E-81	0	CLDN5	0.552
5.10E-83	1.157373	0.871	0.297	8.02E-79	0	PECAM1	0.574
2.72E-81	0.876517	0.968	0.746	4.28E-77	0	HLA-E	0.222
4.95E-81	1.087774	0.896	0.481	7.78E-77	0	STOM	0.415
1.79E-79	1.167377	0.842	0.326	2.81E-75	0	ESAM	0.516
1.13E-77	1.600932	0.767	0.257	1.78E-73	0	AQP1	0.51
1.84E-77	1.190818	0.871	0.44	2.89E-73	0	MGLL	0.431
1.42E-75	1.304357	0.609	0.109	2.24E-71	0	BTNL9	0.5
1.49E-75	0.772413	0.946	0.363	2.34E-71	0	HLA-DRB1	0.583
2.33E-75	1.250608	0.8	0.288	3.66E-71	0	SDPR	0.512
3.14E-74	1.729382	0.582	0.09	4.93E-70	0	CA4	0.492
8.32E-74	0.731585	0.978	0.507	1.31E-69	0	CD74	0.471
1.87E-73	1.189334	0.691	0.171	2.94E-69	0	FAM107A	0.52
5.69E-73	0.839098	0.889	0.315	8.94E-69	0	HLA-DRB5	0.574
1.54E-72	1.111383	0.936	0.515	2.43E-68	0	TM4SF1	0.421
1.22E-71	1.128504	0.804	0.334	1.92E-67	0	PLPP1	0.47
1.78E-71	1.06779	0.757	0.212	2.80E-67	0	RAMP3	0.545
2.13E-70	0.77463	0.978	0.824	3.35E-66	0	HLA-A	0.154
1.78E-69	1.178763	0.587	0.107	2.80E-65	0	CLIC5	0.48
7.68E-69	1.197881	0.666	0.182	1.21E-64	0	ANXA3	0.484
9.50E-69	1.152494	0.663	0.175	1.49E-64	0	CYYR1	0.488
1.49E-68	1.162536	0.718	0.221	2.35E-64	0	FLT1	0.497
1.46E-65	1.041949	0.72	0.24	2.29E-61	0	CD93	0.48
2.93E-64	1.02999	0.636	0.165	4.61E-60	0	NRN1	0.471
1.26E-63	1.011359	0.691	0.199	1.98E-59	0	PTPRB	0.492
1.48E-63	1.105795	0.663	0.204	2.33E-59	0	WARS	0.459
3.17E-63	0.846089	0.931	0.674	4.99E-59	0	FKBP1A	0.257

6.08E-62	1.122033	0.658	0.207	9.57E-58	0 PODXL	0.451
1.21E-61	1.008282	0.656	0.191	1.90E-57	0 ADGRL4	0.465
7.19E-61	1.081946	0.634	0.181	1.13E-56	0 RGCC	0.453
1.44E-59	0.991443	0.589	0.147	2.27E-55	0 MYCT1	0.442
5.27E-59	1.088114	0.604	0.171	8.28E-55	0 TSPAN13	0.433
2.70E-58	0.928615	0.797	0.394	4.25E-54	0 CAV2	0.403
2.87E-58	0.59916	0.983	0.971	4.52E-54	0 IFITM3	0.012
1.67E-57	0.868675	0.938	0.6	2.62E-53	0 ID3	0.338
3.22E-57	1.356884	0.579	0.147	5.06E-53	0 LPL	0.432
8.09E-55	0.892244	0.822	0.4	1.27E-50	0 EPAS1	0.422
4.19E-54	0.91404	0.713	0.29	6.58E-50	0 SEC14L1	0.423
1.00E-53	1.005748	0.55	0.135	1.58E-49	0 ITGA6	0.415
2.38E-53	0.924452	0.71	0.272	3.74E-49	0 GIMAP4	0.438
4.25E-52	0.918055	0.866	0.531	6.69E-48	0 ENG	0.335
1.69E-51	0.92112	0.631	0.224	2.66E-47	0 JAM2	0.407
2.05E-51	0.967182	0.619	0.199	3.22E-47	0 PALMD	0.42
1.90E-50	0.730422	0.97	0.775	2.99E-46	0 IFITM1	0.195
2.98E-49	0.919972	0.55	0.159	4.68E-45	0 EFNA1	0.391
4.65E-49	0.916692	0.728	0.329	7.31E-45	0 CLEC14A	0.399
9.97E-47	0.925733	0.715	0.306	1.57E-42	0 IGF2	0.409
1.98E-46	0.730222	0.901	0.647	3.12E-42	0 LGALS3	0.254
7.11E-46	0.966116	0.522	0.149	1.12E-41	0 MLLT4	0.373
8.53E-46	0.917714	0.495	0.129	1.34E-41	0 ABLIM3	0.366
1.09E-45	0.891311	0.535	0.156	1.71E-41	0 SH2D3C	0.379
6.96E-45	0.756703	0.814	0.554	1.10E-40	0 CDC37	0.26
8.11E-45	0.873103	0.683	0.307	1.28E-40	0 KLF2	0.376
1.51E-44	0.872058	0.606	0.219	2.38E-40	0 ADAM15	0.387
1.81E-44	0.873586	0.579	0.197	2.85E-40	0 LDB2	0.382
1.99E-44	0.843474	0.616	0.229	3.13E-40	0 NEDD9	0.387
2.35E-44	0.907684	0.604	0.218	3.69E-40	0 SGK1	0.386
3.24E-44	0.904264	0.666	0.266	5.09E-40	0 CLEC3B	0.4
3.78E-44	0.792859	0.918	0.703	5.94E-40	0 DDIT4	0.215
8.65E-44	0.76868	0.8	0.41	1.36E-39	0 IL32	0.39
9.03E-44	0.935388	0.488	0.134	1.42E-39	0 CD82	0.354
1.45E-43	0.884834	0.597	0.204	2.28E-39	0 APOLD1	0.393
2.05E-43	0.752985	0.884	0.671	3.23E-39	0 LY6E	0.213
2.51E-43	0.885392	0.493	0.138	3.95E-39	0 NOTCH4	0.355
3.77E-43	0.719958	0.802	0.385	5.92E-39	0 BCAM	0.417
4.00E-43	0.682411	0.921	0.609	6.29E-39	0 CRIP2	0.312
1.68E-42	0.949626	0.418	0.087	2.65E-38	0 CD300LG	0.331
8.87E-42	0.897461	0.473	0.131	1.39E-37	0 PIK3R3	0.342
8.88E-42	0.786594	0.698	0.31	1.40E-37	0 CALCRL	0.388
1.37E-41	0.682183	0.725	0.338	2.16E-37	0 IGFBP4	0.387
1.79E-41	0.940134	0.559	0.199	2.81E-37	0 C8orf4	0.36
3.19E-41	0.788534	0.767	0.485	5.02E-37	0 VAMP5	0.282
1.35E-40	0.77404	0.421	0.093	2.13E-36	0 ARHGEF15	0.328
1.40E-40	0.893	0.661	0.321	2.21E-36	0 PHACTR2	0.34
1.85E-40	0.749526	0.423	0.094	2.91E-36	0 GALNT18	0.329
2.89E-40	0.8188	0.448	0.115	4.55E-36	0 TEK	0.333
5.48E-40	0.820015	0.582	0.225	8.62E-36	0 CTSH	0.357
8.68E-40	0.841649	0.485	0.138	1.37E-35	0 TM4SF18	0.347
2.26E-39	0.747576	0.762	0.399	3.56E-35	0 CD34	0.363
5.50E-39	0.811932	0.584	0.229	8.66E-35	0 MGST2	0.355
8.07E-39	0.74192	0.782	0.493	1.27E-34	0 TACC1	0.289
3.21E-38	1.115292	0.386	0.076	5.04E-34	0 FCN3	0.31
9.27E-38	0.827157	0.411	0.097	1.46E-33	0 HECW2	0.314
1.00E-37	0.804885	0.512	0.178	1.58E-33	0 KIAA1462	0.334
1.04E-37	0.816581	0.46	0.132	1.64E-33	0 TSPAN7	0.328

5.03E-37	0.780614	0.735	0.426	7.91E-33	0 IFNGR1	0.309
6.14E-37	0.679179	0.785	0.485	9.66E-33	0 TMEM204	0.3
8.84E-37	0.651934	0.72	0.375	1.39E-32	0 PSMB9	0.345
3.51E-36	0.76098	0.436	0.121	5.52E-32	0 ATOH8	0.315
1.55E-35	0.833955	0.505	0.172	2.44E-31	0 MMRN2	0.333
1.64E-35	0.790612	0.463	0.143	2.57E-31	0 ADCY4	0.32
1.94E-35	0.838768	0.54	0.203	3.05E-31	0 ASS1	0.337
2.46E-35	0.622819	0.856	0.59	3.87E-31	0 CD59	0.266
2.76E-35	0.662382	0.847	0.581	4.33E-31	0 SPTBN1	0.266
7.51E-34	0.7967	0.453	0.144	1.18E-29	0 MALL	0.309
1.22E-33	0.72973	0.431	0.122	1.92E-29	0 ROBO4	0.309
1.87E-33	0.794712	0.436	0.134	2.94E-29	0 AIF1L	0.302
8.55E-33	0.695722	0.53	0.197	1.34E-28	0 HYAL2	0.333
1.00E-32	0.78291	0.411	0.119	1.57E-28	0 CX3CL1	0.292
1.26E-32	0.739122	0.361	0.087	1.99E-28	0 HYAL1	0.274
2.43E-32	0.781305	0.579	0.275	3.83E-28	0 LAP3	0.304
2.83E-32	0.770301	0.436	0.138	4.45E-28	0 TIE1	0.298
1.06E-31	0.722134	0.473	0.169	1.67E-27	0 GPRC5B	0.304
1.39E-31	0.623861	0.77	0.494	2.19E-27	0 PTRF	0.276
2.44E-31	0.731431	0.52	0.206	3.83E-27	0 GIMAP7	0.314
4.67E-31	0.655336	0.507	0.193	7.34E-27	0 GIMAP6	0.314
1.67E-30	0.698385	0.426	0.129	2.63E-26	0 CXorf36	0.297
5.33E-30	0.693486	0.574	0.276	8.38E-26	0 S100A16	0.298
9.03E-30	0.660984	0.272	0.04	1.42E-25	0 KLK1	0.232
1.08E-29	0.644596	0.351	0.087	1.71E-25	0 HSPA12B	0.264
1.47E-29	0.682184	0.374	0.103	2.31E-25	0 MCF2L	0.271
2.88E-29	0.707609	0.453	0.166	4.53E-25	0 PTPRM	0.287
1.19E-28	0.683335	0.715	0.459	1.87E-24	0 GYPC	0.256
1.33E-28	0.643637	0.292	0.056	2.09E-24	0 RP11-536C	0.236
1.74E-28	0.705021	0.28	0.05	2.73E-24	0 GPIHBP1	0.23
1.89E-28	0.67505	0.478	0.193	2.98E-24	0 ELK3	0.285
2.23E-28	0.609495	0.822	0.635	3.51E-24	0 POMP	0.187
6.50E-28	0.648157	0.436	0.159	1.02E-23	0 RFTN1	0.277
2.46E-27	0.615051	0.295	0.062	3.87E-23	0 DLL4	0.233
2.52E-27	0.704588	0.307	0.065	3.96E-23	0 STC1	0.242
2.56E-27	0.664302	0.349	0.093	4.03E-23	0 KDR	0.256
2.80E-27	0.591901	0.332	0.084	4.40E-23	0 SMAGP	0.248
3.55E-27	0.653108	0.646	0.34	5.58E-23	0 NRP1	0.306
4.69E-27	0.634935	0.606	0.315	7.37E-23	0 LIMS2	0.291
1.10E-26	0.666767	0.609	0.334	1.72E-22	0 PPFIBP1	0.275
2.61E-26	0.765198	0.651	0.372	4.10E-22	0 COL4A1	0.279
5.02E-26	0.674214	0.48	0.204	7.89E-22	0 PXN	0.276
6.59E-26	0.6136	0.636	0.372	1.04E-21	0 CYB5A	0.264
1.21E-25	0.682808	0.488	0.207	1.91E-21	0 LIFR	0.281
2.29E-25	0.577841	0.738	0.484	3.60E-21	0 PPIC	0.254
3.09E-25	0.623984	0.512	0.232	4.87E-21	0 TSPAN14	0.28
3.52E-25	0.612049	0.307	0.078	5.54E-21	0 SOX18	0.229
4.85E-25	0.665679	0.381	0.129	7.63E-21	0 TSPAN18	0.252
7.32E-25	0.689852	0.564	0.313	1.15E-20	0 CAPN2	0.251
1.35E-24	0.572819	0.347	0.106	2.12E-20	0 HIF3A	0.241
3.80E-24	0.601064	0.272	0.06	5.97E-20	0 SOX17	0.212
3.96E-24	0.649548	0.562	0.297	6.22E-20	0 TJP1	0.265
4.36E-24	0.629537	0.327	0.097	6.86E-20	0 ARAP3	0.23
6.54E-24	0.545728	0.532	0.243	1.03E-19	0 ETS1	0.289
7.38E-24	0.591876	0.609	0.354	1.16E-19	0 PSMB8	0.255
8.60E-24	0.562225	0.287	0.068	1.35E-19	0 PCDH12	0.219
2.05E-23	0.628093	0.29	0.074	3.23E-19	0 AQP7	0.216
4.16E-23	0.616494	0.48	0.213	6.54E-19	0 LPAR6	0.267

1.08E-22	0.56075	0.686	0.429	1.70E-18	0 PDLIM1	0.257
1.16E-22	0.770291	0.275	0.066	1.83E-18	0 TNFRSF4	0.209
1.76E-22	0.608842	0.302	0.088	2.76E-18	0 EFNB2	0.214
3.52E-22	0.549535	0.332	0.107	5.54E-18	0 ERG	0.225
3.79E-22	0.691812	0.408	0.171	5.96E-18	0 CDKN1C	0.237
4.12E-22	0.686056	0.423	0.176	6.47E-18	0 TIMP4	0.247
6.26E-22	0.653006	0.324	0.101	9.84E-18	0 AQP3	0.223
8.68E-22	0.632554	0.319	0.101	1.37E-17	0 C19orf33	0.218
9.44E-22	0.601527	0.319	0.099	1.48E-17	0 KANK3	0.22
1.00E-21	0.578556	0.302	0.088	1.57E-17	0 PCDH1	0.214
1.88E-21	0.626299	0.431	0.185	2.95E-17	0 XAF1	0.246
2.63E-21	0.62631	0.542	0.299	4.13E-17	0 LEPROTL1	0.243
4.17E-21	0.520314	0.255	0.059	6.56E-17	0 RASIP1	0.196
4.73E-21	0.533112	0.257	0.063	7.44E-17	0 CA8	0.194
6.64E-21	0.670077	0.502	0.272	1.04E-16	0 C1orf54	0.23
8.37E-21	0.535784	0.646	0.437	1.32E-16	0 FLOT1	0.209
1.18E-20	0.590353	0.339	0.121	1.86E-16	0 GIMAP1	0.218
1.78E-20	0.554438	0.715	0.488	2.79E-16	0 RHOB	0.227
3.06E-20	0.54327	0.411	0.172	4.81E-16	0 ADGRG1	0.239
3.29E-20	0.525526	0.713	0.549	5.17E-16	0 RHOC	0.164
3.73E-20	0.66726	0.688	0.453	5.86E-16	0 IER2	0.235
5.26E-20	0.542984	0.574	0.337	8.28E-16	0 CALCOCO1	0.237
1.00E-19	0.539616	0.448	0.213	1.58E-15	0 ETS2	0.235
1.06E-19	0.502702	0.304	0.099	1.66E-15	0 TSPAN15	0.205
1.42E-19	0.544745	0.468	0.232	2.24E-15	0 TNFSF10	0.236
1.54E-19	0.580529	0.344	0.131	2.42E-15	0 JUP	0.213
1.64E-19	0.520154	0.297	0.094	2.57E-15	0 ITPKB	0.203
1.72E-19	0.550394	0.567	0.31	2.71E-15	0 SYNE2	0.257
2.66E-19	0.514033	0.292	0.093	4.18E-15	0 SHROOM4	0.199
6.10E-19	0.555088	0.428	0.201	9.59E-15	0 DOCK9	0.227
6.17E-19	0.571295	0.485	0.253	9.71E-15	0 NPDC1	0.232
6.28E-19	0.632374	0.26	0.074	9.88E-15	0 CA2	0.186
6.92E-19	0.541414	0.423	0.194	1.09E-14	0 CDC42EP3	0.229
1.00E-18	0.526063	0.302	0.101	1.58E-14	0 GFOD1	0.201
1.13E-18	0.578164	0.332	0.129	1.77E-14	0 RAPGEF1	0.203
1.23E-18	0.571152	0.537	0.306	1.94E-14	0 PRCP	0.231
1.32E-18	0.537069	0.428	0.21	2.07E-14	0 FDPS	0.218
2.03E-18	0.607064	0.594	0.381	3.19E-14	0 IFI6	0.213
2.13E-18	0.563919	0.282	0.093	3.35E-14	0 GRASP	0.189
2.32E-18	0.516217	0.307	0.107	3.65E-14	0 RAPGEF3	0.2
3.37E-18	0.564515	0.438	0.228	5.30E-14	0 FKBP1C	0.21
4.65E-18	0.592356	0.844	0.631	7.31E-14	0 TPM1	0.213
6.96E-18	0.545091	0.319	0.122	1.09E-13	0 GIMAP8	0.197
7.10E-18	0.616705	0.48	0.26	1.12E-13	0 KLF4	0.22
8.07E-18	0.536194	0.574	0.36	1.27E-13	0 ARHGAP29	0.214
8.58E-18	0.53132	0.386	0.174	1.35E-13	0 FRY	0.212
1.07E-17	0.500883	0.384	0.165	1.68E-13	0 OCIAD2	0.219
1.17E-17	0.505693	0.255	0.076	1.84E-13	0 FAM212A	0.179
1.92E-17	0.590478	0.418	0.2	3.01E-13	0 SMTN	0.218
4.43E-17	0.501985	0.403	0.187	6.97E-13	0 CDC42EP4	0.216
5.21E-17	0.553451	0.522	0.328	8.20E-13	0 UBE2L6	0.194
5.55E-17	0.523817	0.428	0.212	8.72E-13	0 ECE1	0.216
8.66E-17	0.552275	0.55	0.35	1.36E-12	0 LSM6	0.2
1.14E-16	0.710466	0.389	0.184	1.79E-12	0 HEY1	0.205
1.58E-16	0.552348	0.421	0.215	2.48E-12	0 CSRNP1	0.206
1.98E-16	0.509346	0.27	0.091	3.11E-12	0 FZD6	0.179
2.58E-16	0.56617	0.349	0.156	4.05E-12	0 GBP4	0.193
5.16E-16	0.526447	0.257	0.085	8.12E-12	0 KIAA1217	0.172

5.17E-16	0.689206	0.389	0.187	8.13E-12	0 EDNRB	0.202
7.25E-16	0.500108	0.411	0.206	1.14E-11	0 SOCS2	0.205
7.92E-16	0.517001	0.252	0.084	1.25E-11	0 SHANK3	0.168
1.48E-15	0.548077	0.349	0.151	2.33E-11	0 NES	0.198
2.25E-15	0.514465	0.473	0.275	3.54E-11	0 FOXN3	0.198
2.77E-15	0.546758	0.443	0.25	4.36E-11	0 C1orf21	0.193
2.90E-15	0.512577	0.522	0.329	4.56E-11	0 TNS2	0.193
1.09E-14	0.507641	0.361	0.168	1.71E-10	0 FSCN1	0.193
2.52E-14	0.769928	0.629	0.435	3.96E-10	0 CXCL12	0.194
9.07E-14	0.556401	0.436	0.254	1.43E-09	0 RDX	0.182
1.90E-13	0.58581	0.483	0.319	2.99E-09	0 PPA1	0.164
3.80E-13	0.541692	0.339	0.162	5.97E-09	0 INMT	0.177
7.94E-13	0.764656	0.515	0.353	1.25E-08	0 HSPA1A	0.162
1.62E-12	0.501179	0.411	0.231	2.55E-08	0 FRYL	0.18
1.51E-11	0.527667	0.678	0.526	2.37E-07	0 JUN	0.152
2.57E-11	0.518289	0.339	0.162	4.04E-07	0 CXCL2	0.177
3.94E-11	0.555309	0.391	0.226	6.19E-07	0 CD320	0.165
7.55E-11	0.509611	0.354	0.203	1.19E-06	0 IFI44L	0.151
4.77E-07	1.493253	0.46	0.334	0.007505	0 MYL2	0.126
8.38E-206	4.049722	0.982	0.037	1.32E-201	1 SERPINF1	0.945
1.86E-204	3.810255	0.982	0.035	2.93E-200	1 LUM	0.947
5.23E-194	3.248615	0.969	0.053	8.23E-190	1 CCDC80	0.916
4.28E-192	2.503874	0.908	0.021	6.73E-188	1 MMP2	0.887
3.87E-188	2.68341	0.882	0.018	6.09E-184	1 LTBP2	0.864
3.93E-185	2.418749	0.842	0.006	6.18E-181	1 MFAP5	0.836
4.11E-185	2.995247	0.921	0.037	6.46E-181	1 MFAP4	0.884
6.74E-178	2.753136	0.829	0.011	1.06E-173	1 DPT	0.818
3.24E-176	3.040946	0.921	0.057	5.09E-172	1 PRELP	0.864
2.27E-169	2.624915	0.803	0.013	3.57E-165	1 PCOLCE2	0.79
1.30E-162	2.310461	0.833	0.034	2.04E-158	1 FBLN1	0.799
1.61E-162	2.232842	0.921	0.077	2.53E-158	1 C1S	0.844
1.70E-162	1.841431	0.763	0.007	2.67E-158	1 CDH19	0.756
4.05E-159	2.201994	0.807	0.029	6.37E-155	1 FIBIN	0.778
1.87E-158	1.849192	0.82	0.036	2.95E-154	1 MXRA8	0.784
2.27E-158	4.538271	1	0.202	3.58E-154	1 DCN	0.798
3.61E-157	2.131049	0.807	0.029	5.67E-153	1 COL6A3	0.778
4.88E-156	2.515541	0.86	0.055	7.68E-152	1 COL1A1	0.805
1.11E-154	1.773936	0.789	0.023	1.75E-150	1 OGN	0.766
2.21E-152	1.968347	0.868	0.064	3.48E-148	1 LAMA2	0.804
8.62E-152	2.756992	0.978	0.168	1.36E-147	1 COL1A2	0.81
9.39E-149	1.675296	0.724	0.012	1.48E-144	1 ABI3BP	0.712
1.07E-147	2.027466	0.807	0.046	1.69E-143	1 COL8A1	0.761
4.14E-147	1.659606	0.746	0.019	6.50E-143	1 OMD	0.727
3.59E-145	2.477633	0.912	0.114	5.65E-141	1 CFH	0.798
4.22E-145	1.940571	0.829	0.064	6.63E-141	1 PCOLCE	0.765
3.34E-144	2.121436	0.882	0.084	5.26E-140	1 PTN	0.798
1.03E-138	1.817824	0.746	0.033	1.62E-134	1 ABCA8	0.713
2.72E-137	3.823319	0.965	0.209	4.28E-133	1 APOD	0.756
1.31E-136	2.016848	0.838	0.075	2.06E-132	1 FBLN2	0.763
5.17E-135	3.16661	0.833	0.075	8.12E-131	1 CFD	0.758
2.53E-134	1.43319	0.702	0.022	3.98E-130	1 CTSK	0.68
2.62E-132	1.63235	0.741	0.037	4.12E-128	1 ABCA6	0.704
2.58E-131	1.769773	0.798	0.057	4.06E-127	1 VCAN	0.741
9.16E-128	2.311097	0.93	0.181	1.44E-123	1 ASPN	0.749
4.32E-127	2.365889	0.939	0.186	6.80E-123	1 SERPINE2	0.753
5.26E-125	2.305837	0.908	0.159	8.28E-121	1 COL3A1	0.749
2.02E-124	2.202508	0.741	0.05	3.17E-120	1 C7	0.691
1.12E-122	2.979743	1	0.461	1.77E-118	1 MGP	0.539

1.69E-118	1.972134	0.785	0.074	2.65E-114	1 CTGF	0.711
3.25E-118	1.751007	0.706	0.048	5.10E-114	1 FBLN5	0.658
1.72E-116	2.141857	0.57	0.006	2.70E-112	1 SFRP4	0.564
4.08E-116	1.470099	0.649	0.029	6.41E-112	1 COL12A1	0.62
1.73E-112	2.246197	0.991	0.464	2.72E-108	1 TIMP1	0.527
9.88E-112	1.344545	0.601	0.018	1.55E-107	1 SULF1	0.583
3.14E-111	1.358353	0.588	0.018	4.93E-107	1 OLFML3	0.57
5.97E-111	1.960228	1	0.856	9.39E-107	1 CST3	0.144
3.05E-108	1.707104	0.82	0.141	4.80E-104	1 NNMT	0.679
4.23E-108	2.383377	0.996	0.737	6.64E-104	1 GSN	0.259
1.07E-107	1.594717	0.697	0.067	1.69E-103	1 C1R	0.63
1.11E-106	1.627621	0.86	0.167	1.74E-102	1 LRP1	0.693
1.94E-103	1.286733	0.496	0.001	3.05E-99	1 MEG3	0.495
2.55E-102	1.820141	0.724	0.089	4.01E-98	1 SCN7A	0.635
1.03E-101	1.737391	0.882	0.234	1.62E-97	1 FSTL1	0.648
4.93E-101	1.647752	0.868	0.192	7.75E-97	1 LTBP4	0.676
1.83E-100	1.73225	0.899	0.243	2.87E-96	1 COL6A1	0.656
7.30E-100	1.952314	0.627	0.048	1.15E-95	1 FMOD	0.579
6.96E-98	1.187231	0.531	0.016	1.10E-93	1 PODN	0.515
8.18E-98	1.610784	0.579	0.034	1.29E-93	1 HTRA3	0.545
4.54E-97	1.587224	0.868	0.251	7.14E-93	1 PMP22	0.617
6.19E-97	2.062616	0.675	0.076	9.74E-93	1 AEBP1	0.599
3.15E-96	1.510612	0.588	0.037	4.95E-92	1 TCF21	0.551
9.76E-96	1.419879	0.64	0.049	1.53E-91	1 EFEMP1	0.591
4.87E-94	1.270517	0.662	0.071	7.67E-90	1 LTBP1	0.591
1.44E-93	1.457657	0.61	0.048	2.26E-89	1 COL14A1	0.562
7.11E-93	1.852401	0.711	0.107	1.12E-88	1 SMOC2	0.604
1.04E-92	1.306185	0.526	0.023	1.64E-88	1 PDGFRL	0.503
4.17E-92	1.900104	0.456	0.004	6.55E-88	1 PENK	0.452
4.52E-92	1.432887	0.496	0.014	7.11E-88	1 THBS2	0.482
1.54E-91	1.124395	0.5	0.015	2.42E-87	1 MRC2	0.485
3.71E-90	1.067276	0.443	0.002	5.83E-86	1 PDGFRA	0.441
4.48E-89	1.360374	0.943	0.223	7.05E-85	1 S100A4	0.72
5.29E-89	1.655486	0.956	0.513	8.32E-85	1 SERPING1	0.443
1.13E-87	1.316318	0.632	0.071	1.77E-83	1 ECM1	0.561
3.63E-86	1.580099	0.952	0.348	5.71E-82	1 BGN	0.604
6.01E-86	1.648418	0.917	0.425	9.46E-82	1 COL6A2	0.492
1.11E-85	1.107049	0.513	0.026	1.74E-81	1 GAS7	0.487
1.70E-85	1.163231	0.496	0.021	2.67E-81	1 CES1	0.475
1.87E-85	1.116443	0.447	0.009	2.94E-81	1 SRPX2	0.438
4.00E-85	1.367426	0.838	0.236	6.30E-81	1 CYBRD1	0.602
6.36E-85	1.370017	0.882	0.29	1.00E-80	1 TIMP2	0.592
1.61E-84	1.554317	0.614	0.07	2.53E-80	1 FBN1	0.544
1.80E-83	1.192922	0.632	0.064	2.83E-79	1 SPON2	0.568
3.32E-83	1.271455	0.794	0.172	5.22E-79	1 FXYP1	0.622
2.76E-82	1.131235	0.434	0.008	4.34E-78	1 IGF1	0.426
1.92E-80	1.012715	0.439	0.012	3.02E-76	1 FAP	0.427
1.92E-79	1.158771	0.509	0.034	3.02E-75	1 SRPX	0.475
1.95E-78	2.38559	0.697	0.138	3.07E-74	1 THBS4	0.559
5.15E-78	1.73205	0.904	0.357	8.11E-74	1 FN1	0.547
2.76E-77	1.052131	0.443	0.016	4.34E-73	1 CHPF	0.427
1.15E-76	1.189305	0.689	0.133	1.80E-72	1 RNASE4	0.556
1.50E-75	1.10116	0.504	0.036	2.35E-71	1 MGST1	0.468
3.84E-75	1.067235	0.364	0	6.04E-71	1 TLL2	0.364
1.58E-74	1.167704	0.548	0.058	2.49E-70	1 COL5A2	0.49
2.62E-74	1.030797	0.43	0.018	4.12E-70	1 ABCA9	0.412
6.80E-74	1.045261	0.395	0.008	1.07E-69	1 SEMA3C	0.387
9.30E-74	1.139754	0.675	0.117	1.46E-69	1 ISLR	0.558

2.23E-73	1.386578	0.785	0.222	3.50E-69	1 LSP1	0.563
1.49E-72	1.030061	0.443	0.025	2.34E-68	1 CERCAM	0.418
7.82E-72	1.393627	0.759	0.193	1.23E-67	1 TNXB	0.566
7.97E-72	1.084281	0.461	0.03	1.25E-67	1 SDC2	0.431
3.00E-71	2.370863	0.557	0.069	4.71E-67	1 POSTN	0.488
1.23E-70	1.405499	0.368	0.006	1.93E-66	1 C3	0.362
2.11E-70	0.931569	0.342	0	3.31E-66	1 MOXD1	0.342
6.67E-70	1.057318	0.496	0.043	1.05E-65	1 PTGIS	0.453
2.32E-69	0.822439	0.368	0.007	3.65E-65	1 NEGR1	0.361
3.34E-69	1.153943	0.697	0.143	5.25E-65	1 PDLIM3	0.554
1.67E-68	0.831484	0.425	0.025	2.62E-64	1 GLT8D2	0.4
5.99E-68	0.957036	0.478	0.042	9.43E-64	1 RCN3	0.436
1.60E-67	1.103469	1	0.839	2.52E-63	1 S100A6	0.161
2.16E-67	0.822328	0.333	0.001	3.40E-63	1 PCSK6	0.332
5.09E-66	1.160461	0.956	0.581	8.00E-62	1 PLAC9	0.375
1.15E-65	1.318055	0.697	0.182	1.81E-61	1 F2R	0.515
1.43E-65	2.084615	0.439	0.034	2.25E-61	1 PI16	0.405
3.90E-65	0.896571	0.364	0.011	6.14E-61	1 SVEP1	0.353
2.24E-64	1.23246	0.636	0.132	3.53E-60	1 FHL2	0.504
4.69E-64	0.877736	0.355	0.009	7.38E-60	1 LOXL1	0.346
2.84E-63	2.14915	0.662	0.173	4.47E-59	1 IGFBP6	0.489
1.74E-61	1.016976	0.368	0.018	2.74E-57	1 DIO2	0.35
1.79E-61	0.76113	0.351	0.012	2.82E-57	1 LINC01140	0.339
2.70E-61	1.112213	0.741	0.251	4.24E-57	1 PRDX4	0.49
1.44E-60	1.082302	0.307	0.002	2.27E-56	1 MME	0.305
4.01E-60	0.981825	0.425	0.036	6.31E-56	1 PCDH9	0.389
6.35E-60	0.724586	0.298	0.001	9.99E-56	1 ANGPTL5	0.297
9.89E-60	0.860839	0.333	0.009	1.55E-55	1 LOX	0.324
1.15E-59	0.854598	0.412	0.033	1.81E-55	1 SSPN	0.379
7.87E-59	1.088021	0.557	0.097	1.24E-54	1 PLTP	0.46
4.57E-58	0.792604	0.289	0.001	7.19E-54	1 SCARA5	0.288
4.70E-58	0.928296	0.289	0.001	7.39E-54	1 ABCA10	0.288
1.50E-57	0.869872	0.482	0.064	2.36E-53	1 TMEM98	0.418
2.93E-57	0.706958	0.303	0.005	4.61E-53	1 NOX4	0.298
3.43E-57	0.812945	0.377	0.023	5.39E-53	1 GPNMB	0.354
1.38E-56	0.831697	0.395	0.03	2.17E-52	1 CDO1	0.365
2.41E-56	0.759145	0.298	0.005	3.79E-52	1 NRK	0.293
1.40E-55	0.87037	0.355	0.021	2.20E-51	1 COL5A1	0.334
6.38E-55	0.789496	0.382	0.029	1.00E-50	1 NT5E	0.353
3.33E-54	0.862041	0.425	0.044	5.24E-50	1 AKR1C1	0.381
8.89E-53	0.616578	0.259	0	1.40E-48	1 LPAR1	0.259
7.16E-52	1.125574	0.772	0.313	1.13E-47	1 FHL1	0.459
7.54E-52	0.820464	0.439	0.058	1.19E-47	1 KDELR3	0.381
9.46E-52	0.674152	0.281	0.006	1.49E-47	1 SLIT2	0.275
1.19E-51	0.77628	1	0.942	1.87E-47	1 VIM	0.058
1.27E-51	0.611949	0.259	0.001	1.99E-47	1 LRRN4CL	0.258
2.22E-51	0.797427	0.478	0.075	3.49E-47	1 TMED3	0.403
2.26E-51	0.74029	0.289	0.008	3.55E-47	1 ADAMTS5	0.281
5.63E-51	0.882247	0.991	0.95	8.86E-47	1 ITM2B	0.041
7.10E-51	0.955052	0.605	0.153	1.12E-46	1 RRBP1	0.452
1.37E-50	1.012968	0.632	0.178	2.16E-46	1 LAMB1	0.454
1.50E-49	1.153748	0.768	0.329	2.37E-45	1 PLXDC2	0.439
1.51E-49	1.000697	0.254	0.002	2.37E-45	1 FIGF	0.252
2.05E-49	0.816919	0.342	0.026	3.22E-45	1 AKR1C2	0.316
1.01E-48	0.992942	0.794	0.435	1.59E-44	1 ARF4	0.359
2.07E-48	0.849672	0.417	0.056	3.25E-44	1 ECHDC2	0.361
3.65E-48	0.803838	0.259	0.005	5.73E-44	1 HAPLN1	0.254
6.80E-48	0.668071	0.276	0.009	1.07E-43	1 PAMR1	0.267

6.81E-48	0.9365	0.535	0.117	1.07E-43	1 PHLDB1	0.418
1.17E-47	0.793813	0.329	0.025	1.84E-43	1 EDIL3	0.304
1.65E-47	1.037231	0.829	0.432	2.59E-43	1 S100A13	0.397
2.94E-47	1.049183	0.636	0.207	4.62E-43	1 LAMC1	0.429
2.97E-47	0.738538	0.285	0.012	4.67E-43	1 TNFAIP6	0.273
4.82E-47	0.736445	0.263	0.007	7.58E-43	1 PLEKHH2	0.256
1.14E-46	0.963701	0.618	0.183	1.80E-42	1 PLSCR4	0.435
3.93E-46	1.381364	0.583	0.171	6.18E-42	1 CYP1B1	0.412
4.07E-46	0.878136	0.452	0.076	6.40E-42	1 NOTCH2	0.376
1.85E-45	0.983361	0.886	0.64	2.91E-41	1 ANXA5	0.246
3.47E-45	0.760737	0.368	0.043	5.46E-41	1 FEZ1	0.325
5.41E-45	0.869994	0.921	0.708	8.50E-41	1 GABARAPL	0.213
1.41E-44	0.672266	0.329	0.029	2.22E-40	1 ST3GAL4	0.3
4.34E-44	0.685993	0.544	0.125	6.83E-40	1 ELN	0.419
1.17E-43	1.002923	0.504	0.117	1.84E-39	1 MXRA5	0.387
1.62E-43	0.823972	0.724	0.258	2.54E-39	1 TFPI	0.466
1.82E-43	1.589428	0.355	0.043	2.87E-39	1 ADH1B	0.312
3.72E-43	0.845667	0.904	0.689	5.85E-39	1 LAPTM4A	0.215
4.85E-43	0.812296	0.921	0.73	7.62E-39	1 PPIB	0.191
6.10E-43	0.754007	0.355	0.041	9.59E-39	1 PDGFD	0.314
2.63E-42	0.780422	0.289	0.021	4.13E-38	1 COL16A1	0.268
2.33E-41	0.857321	0.921	0.813	3.66E-37	1 TSC22D3	0.108
2.24E-40	0.708905	0.311	0.032	3.51E-36	1 RHOBTB3	0.279
2.96E-40	0.729615	0.355	0.047	4.66E-36	1 PRRX1	0.308
2.18E-39	0.608878	0.364	0.053	3.43E-35	1 ANG	0.311
2.22E-39	0.830766	0.732	0.356	3.49E-35	1 DDAH2	0.376
2.02E-38	0.995698	0.522	0.15	3.18E-34	1 LTBP3	0.372
4.62E-37	0.639837	0.259	0.019	7.27E-33	1 OAF	0.24
8.43E-37	0.877505	0.649	0.271	1.33E-32	1 ADD3	0.378
1.69E-36	0.644994	0.364	0.057	2.66E-32	1 BMP4	0.307
2.49E-36	0.814476	0.452	0.109	3.91E-32	1 ANTXR1	0.343
3.47E-36	0.803131	0.417	0.086	5.45E-32	1 PLXDC1	0.331
3.94E-36	0.539099	0.276	0.026	6.20E-32	1 FAM110B	0.25
6.60E-36	0.868636	0.811	0.435	1.04E-31	1 SPRY1	0.376
1.64E-35	0.822143	0.443	0.109	2.58E-31	1 AKAP12	0.334
6.20E-35	0.642148	0.342	0.056	9.75E-31	1 FKBP7	0.286
4.66E-33	0.688053	0.421	0.096	7.33E-29	1 PALLD	0.325
7.20E-33	0.68622	0.355	0.064	1.13E-28	1 MATN2	0.291
9.76E-33	0.698697	0.342	0.061	1.53E-28	1 CYP27A1	0.281
2.23E-32	0.674664	0.873	0.636	3.50E-28	1 SSR4	0.237
3.89E-32	0.522855	0.276	0.034	6.12E-28	1 FAM92A1	0.242
5.37E-32	0.782558	0.754	0.435	8.44E-28	1 ARL6IP5	0.319
7.19E-32	0.776031	0.728	0.39	1.13E-27	1 BNIP3L	0.338
1.73E-31	0.512422	0.272	0.032	2.72E-27	1 MAMDC2	0.24
2.04E-31	0.77718	0.702	0.326	3.20E-27	1 EMP1	0.376
2.48E-31	0.723292	0.838	0.46	3.90E-27	1 MFGE8	0.378
3.69E-31	0.664024	0.443	0.117	5.80E-27	1 SGCE	0.326
3.80E-31	0.606996	0.93	0.757	5.98E-27	1 CD63	0.173
2.13E-30	0.708958	0.68	0.308	3.35E-26	1 NUPR1	0.372
2.46E-30	1.202321	0.456	0.139	3.86E-26	1 CYR61	0.317
2.98E-30	0.653432	0.868	0.685	4.68E-26	1 GPX4	0.183
5.35E-30	0.658544	0.825	0.539	8.41E-26	1 TMED2	0.286
9.93E-30	0.821821	0.588	0.249	1.56E-25	1 LGALS3BP	0.339
1.29E-29	0.688201	0.294	0.048	2.02E-25	1 CRISPLD2	0.246
1.55E-29	0.654794	0.338	0.067	2.44E-25	1 GPX8	0.271
1.66E-29	0.779015	0.368	0.085	2.61E-25	1 SOD3	0.283
3.12E-29	0.666773	0.794	0.491	4.91E-25	1 PEBP1	0.303
5.32E-29	0.762627	0.487	0.162	8.36E-25	1 SCPEP1	0.325

6.53E-29	0.554419	0.285	0.043	1.03E-24	1 EPHA3	0.242
8.66E-29	0.730109	0.518	0.188	1.36E-24	1 GOLIM4	0.33
1.46E-28	0.635289	0.377	0.083	2.30E-24	1 CKB	0.294
1.78E-28	0.816213	0.487	0.158	2.80E-24	1 FRZB	0.329
2.51E-28	0.628728	0.36	0.082	3.94E-24	1 ECM2	0.278
3.00E-28	0.622977	0.342	0.076	4.73E-24	1 PLBD1	0.266
3.35E-28	0.755971	0.504	0.185	5.27E-24	1 ANXA4	0.319
7.10E-28	0.712572	0.561	0.232	1.12E-23	1 EFEMP2	0.329
2.06E-27	0.845595	0.605	0.28	3.25E-23	1 RP11-14N	0.325
2.65E-27	0.629663	0.316	0.06	4.17E-23	1 THBS1	0.256
7.40E-27	0.5228	0.276	0.047	1.16E-22	1 PLEKHA5	0.229
7.87E-27	0.647655	0.689	0.366	1.24E-22	1 PLD3	0.323
9.15E-27	0.678152	0.781	0.5	1.44E-22	1 ANXA1	0.281
9.29E-27	0.618699	0.825	0.586	1.46E-22	1 CSTB	0.239
1.84E-26	0.696781	0.711	0.401	2.89E-22	1 MYDGF	0.31
4.54E-26	0.68939	0.553	0.221	7.14E-22	1 PLP2	0.332
4.66E-26	0.517316	0.868	0.533	7.33E-22	1 LHFP	0.335
1.21E-25	0.609423	0.855	0.626	1.90E-21	1 PSAP	0.229
1.41E-24	0.542964	0.303	0.064	2.22E-20	1 SH3D19	0.239
1.44E-24	0.554969	0.952	0.69	2.27E-20	1 SPARC	0.262
1.60E-24	0.697125	0.386	0.109	2.52E-20	1 ITIH5	0.277
7.84E-24	0.561162	0.268	0.05	1.23E-19	1 TGFBR1	0.218
1.25E-23	0.624171	0.469	0.178	1.97E-19	1 CPQ	0.291
1.50E-23	0.530519	0.333	0.084	2.35E-19	1 UBE2E2	0.249
2.84E-23	0.653225	0.531	0.231	4.47E-19	1 NFIC	0.3
7.77E-23	0.55933	0.417	0.137	1.22E-18	1 C5orf15	0.28
9.67E-23	0.675254	0.575	0.282	1.52E-18	1 CALU	0.293
1.47E-22	0.584532	0.263	0.053	2.31E-18	1 UAP1	0.21
1.50E-22	0.549208	0.491	0.181	2.37E-18	1 CLU	0.31
1.52E-22	0.526228	0.272	0.055	2.39E-18	1 FAM46A	0.217
1.61E-22	0.507308	0.947	0.86	2.53E-18	1 CD99	0.087
2.25E-22	0.595074	0.303	0.072	3.53E-18	1 PDE5A	0.231
3.14E-22	0.823054	0.544	0.232	4.94E-18	1 C10orf10	0.312
4.40E-22	0.555173	0.377	0.111	6.93E-18	1 HEYL	0.266
4.57E-22	0.567032	0.333	0.089	7.19E-18	1 ARL4D	0.244
5.37E-22	0.531201	0.338	0.095	8.45E-18	1 TP53I13	0.243
6.41E-22	0.551332	0.355	0.105	1.01E-17	1 CDC42EP2	0.25
9.86E-22	0.524399	0.311	0.078	1.55E-17	1 ERFF1	0.233
1.40E-21	0.523085	0.346	0.1	2.20E-17	1 PKD2	0.246
2.55E-21	0.525301	0.351	0.1	4.01E-17	1 RERG	0.251
2.60E-21	0.60022	0.368	0.114	4.09E-17	1 MYH10	0.254
2.94E-21	0.624887	0.785	0.598	4.62E-17	1 LDHA	0.187
3.52E-21	0.558178	0.307	0.078	5.54E-17	1 SYTL2	0.229
4.89E-21	0.62557	0.417	0.15	7.70E-17	1 DPYSL3	0.267
5.68E-21	0.601601	0.316	0.089	8.93E-17	1 FAM114A1	0.227
1.14E-20	0.59247	0.276	0.065	1.79E-16	1 ETV1	0.211
1.18E-20	0.643453	0.658	0.4	1.86E-16	1 P4HB	0.258
1.28E-20	0.552014	0.544	0.242	2.02E-16	1 IL33	0.302
1.32E-20	0.59154	0.649	0.371	2.07E-16	1 CNIH1	0.278
7.72E-20	0.577708	0.526	0.246	1.21E-15	1 YIF1A	0.28
9.78E-20	0.579691	0.404	0.145	1.54E-15	1 PRNP	0.259
3.02E-19	0.6764	0.649	0.36	4.75E-15	1 COL15A1	0.289
3.11E-19	0.599333	0.395	0.145	4.90E-15	1 P4HA1	0.25
3.57E-19	0.548132	0.386	0.138	5.62E-15	1 LMO4	0.248
5.25E-19	0.527106	0.684	0.423	8.25E-15	1 RNH1	0.261
1.45E-18	0.599276	0.61	0.359	2.28E-14	1 KDELR2	0.251
1.76E-18	0.596483	0.654	0.417	2.77E-14	1 ATRAID	0.237
4.08E-18	0.883948	0.333	0.111	6.42E-14	1 IGFBP3	0.222

4.50E-18	0.534717	0.276	0.074	7.08E-14	1 CTSF	0.202
4.54E-18	0.5675	0.482	0.223	7.13E-14	1 RAB34	0.259
4.71E-18	0.537579	0.303	0.091	7.41E-14	1 NTN4	0.212
4.78E-18	0.519404	0.272	0.072	7.52E-14	1 C1GALT1C	0.2
5.54E-18	0.555752	0.675	0.4	8.71E-14	1 TMED10	0.275
1.05E-17	0.599406	0.605	0.338	1.64E-13	1 H2AFJ	0.267
1.68E-17	0.505822	0.272	0.075	2.64E-13	1 SPRY2	0.197
1.87E-17	0.587122	0.342	0.12	2.95E-13	1 RORA	0.222
2.29E-17	0.629639	0.294	0.086	3.60E-13	1 SERPINE1	0.208
2.46E-17	0.519255	0.421	0.174	3.88E-13	1 IAH1	0.247
3.64E-17	0.535625	0.618	0.335	5.72E-13	1 FAM198B	0.283
4.15E-17	0.546433	0.338	0.114	6.53E-13	1 C1QTNF2	0.224
6.35E-17	0.529857	0.618	0.356	9.99E-13	1 DST	0.262
6.86E-17	0.563146	0.496	0.241	1.08E-12	1 ERLEC1	0.255
1.19E-16	0.500072	0.281	0.083	1.87E-12	1 CLEC11A	0.198
3.19E-16	0.544151	0.425	0.188	5.02E-12	1 TMEM43	0.237
3.95E-16	0.530182	0.592	0.328	6.21E-12	1 IDS	0.264
7.07E-16	0.510122	0.478	0.237	1.11E-11	1 ZBTB20	0.241
8.63E-16	0.531487	0.439	0.202	1.36E-11	1 NID1	0.237
1.28E-15	0.575126	0.408	0.181	2.01E-11	1 SLC29A1	0.227
1.89E-15	0.525719	0.417	0.187	2.97E-11	1 PLAGL1	0.23
4.59E-15	0.632946	0.675	0.502	7.23E-11	1 BTG2	0.173
4.80E-15	0.534241	0.329	0.125	7.54E-11	1 PBX1	0.204
6.38E-15	0.582762	0.469	0.225	1.00E-10	1 COL18A1	0.244
7.11E-15	0.530759	0.5	0.273	1.12E-10	1 SEC13	0.227
1.35E-14	0.529939	0.487	0.249	2.13E-10	1 PAM	0.238
1.91E-14	0.50457	0.605	0.376	3.01E-10	1 LMNA	0.229
2.34E-14	0.522564	0.671	0.445	3.69E-10	1 EMP3	0.226
2.82E-14	0.518537	0.504	0.275	4.44E-10	1 HDLBP	0.229
4.93E-14	0.527121	0.399	0.182	7.75E-10	1 PLOD1	0.217
1.05E-13	0.50483	0.395	0.182	1.65E-09	1 OAT	0.213
1.48E-13	0.5065	0.531	0.313	2.33E-09	1 MPG	0.218
2.29E-13	0.516801	0.491	0.269	3.60E-09	1 TMEM167A	0.222
2.33E-13	0.560312	0.368	0.159	3.67E-09	1 CD55	0.209
5.75E-13	0.551366	0.623	0.458	9.05E-09	1 OSTC	0.165
1.25E-12	0.518304	0.452	0.244	1.96E-08	1 PIGT	0.208
3.06E-12	0.546345	0.496	0.284	4.81E-08	1 ADI1	0.212
3.65E-12	0.509416	0.404	0.207	5.74E-08	1 FNDC3B	0.197
3.93E-12	0.617451	0.412	0.224	6.18E-08	1 MDK	0.188
5.91E-12	0.507426	0.316	0.134	9.30E-08	1 ATP10D	0.182
8.41E-12	0.520613	0.627	0.449	1.32E-07	1 TUBA1A	0.178
1.57E-09	0.552567	0.368	0.194	2.46E-05	1 PRSS23	0.174
2.25E-07	0.519654	0.575	0.412	0.003535	1 IGFBP5	0.163
2.19E-96	2.819959	0.871	0.151	3.44E-92	2 ACTA2	0.72
1.44E-84	2.896072	1	0.441	2.26E-80	2 MYL9	0.559
1.18E-81	1.756319	0.758	0.113	1.85E-77	2 NOTCH3	0.645
1.74E-80	2.527826	0.485	0.021	2.73E-76	2 MYH11	0.464
4.33E-79	1.478547	0.432	0.012	6.81E-75	2 RERGL	0.42
5.06E-76	1.836861	0.886	0.229	7.95E-72	2 ISYNA1	0.657
5.77E-72	2.618786	0.917	0.315	9.07E-68	2 TPM2	0.602
9.40E-72	1.198806	0.553	0.049	1.48E-67	2 ITGA7	0.504
1.02E-65	1.554648	0.432	0.024	1.60E-61	2 CNN1	0.408
1.54E-65	1.859329	0.795	0.171	2.42E-61	2 AGT	0.624
2.34E-64	1.336853	0.591	0.077	3.68E-60	2 MYLK	0.514
8.77E-63	1.545003	0.75	0.17	1.38E-58	2 MTHFD2	0.58
9.74E-63	1.394967	0.735	0.14	1.53E-58	2 PDGFRB	0.595
6.33E-62	1.455865	0.985	0.613	9.96E-58	2 CALD1	0.372
1.06E-61	1.765649	0.78	0.181	1.66E-57	2 GJA4	0.599

2.01E-61	1.70892	0.811	0.207	3.16E-57	2 COX4I2	0.604
9.25E-60	2.164847	0.932	0.455	1.46E-55	2 ADIRF	0.477
1.28E-58	1.647521	0.53	0.063	2.01E-54	2 PLN	0.467
9.65E-55	2.939114	0.848	0.313	1.52E-50	2 TAGLN	0.535
1.29E-53	1.300438	0.462	0.05	2.02E-49	2 LMOD1	0.412
1.27E-51	0.863476	0.303	0.011	2.00E-47	2 KCNMB1	0.292
4.82E-50	1.130708	0.348	0.022	7.59E-46	2 CASQ2	0.326
1.73E-49	0.92674	0.394	0.034	2.71E-45	2 MRVI1	0.36
6.95E-49	0.730623	0.318	0.016	1.09E-44	2 CCDC3	0.302
1.45E-48	1.731013	0.879	0.417	2.28E-44	2 NDUFA4L2	0.462
1.05E-47	0.957758	0.424	0.046	1.65E-43	2 ATP1A2	0.378
1.06E-47	1.313279	0.644	0.148	1.67E-43	2 MCAM	0.496
1.13E-46	1.135162	0.962	0.699	1.78E-42	2 MGST3	0.263
2.68E-46	1.158129	0.561	0.107	4.22E-42	2 C1QTNF1	0.454
3.26E-45	0.991061	0.538	0.095	5.12E-41	2 EDNRA	0.443
7.47E-45	1.359119	0.621	0.148	1.18E-40	2 PLA2G5	0.473
8.18E-44	1.317747	0.644	0.172	1.29E-39	2 CSRP2	0.472
2.52E-43	1.253876	0.568	0.118	3.97E-39	2 FAM162B	0.45
3.21E-42	1.101387	0.621	0.159	5.05E-38	2 GUCY1A3	0.462
1.08E-41	0.960651	0.439	0.064	1.70E-37	2 ATP1B2	0.375
1.95E-41	0.719831	0.273	0.014	3.06E-37	2 SGCA	0.259
4.62E-41	1.213559	0.924	0.486	7.27E-37	2 MFGE8	0.438
5.02E-41	0.980701	0.977	0.661	7.90E-37	2 IGFBP7	0.316
1.33E-39	1.268129	0.606	0.153	2.09E-35	2 CPE	0.453
2.47E-39	0.689596	0.288	0.02	3.89E-35	2 RASL12	0.268
3.85E-39	1.171727	0.705	0.237	6.05E-35	2 TGFB1I1	0.468
1.50E-38	0.919495	0.364	0.043	2.36E-34	2 AOC3	0.321
1.83E-38	0.834879	0.326	0.032	2.88E-34	2 RCAN2	0.294
3.01E-37	1.732194	0.909	0.68	4.73E-33	2 DSTN	0.229
3.80E-37	0.901804	0.356	0.043	5.97E-33	2 RASL11A	0.313
1.67E-36	1.073871	0.424	0.069	2.63E-32	2 EGFLAM	0.355
2.04E-36	1.148498	0.652	0.206	3.20E-32	2 4-Sep	0.446
2.77E-36	0.645955	0.992	0.967	4.36E-32	2 GAPDH	0.025
6.20E-36	0.960197	0.424	0.072	9.75E-32	2 KLHL23	0.352
6.64E-36	1.06992	0.591	0.167	1.04E-31	2 NR2F2	0.424
1.01E-34	1.136004	0.583	0.167	1.59E-30	2 GUCY1B3	0.416
1.62E-34	1.476219	0.765	0.392	2.54E-30	2 FLNA	0.373
5.69E-34	1.651149	0.652	0.231	8.95E-30	2 HIGD1B	0.421
3.61E-33	1.029766	0.886	0.464	5.67E-29	2 PPP1R14A	0.422
3.92E-33	1.571804	0.886	0.503	6.17E-29	2 RGS5	0.383
4.02E-33	1.147558	0.735	0.29	6.32E-29	2 EPS8	0.445
6.96E-33	0.867483	0.356	0.049	1.09E-28	2 NTRK2	0.307
9.70E-33	1.086699	0.689	0.258	1.53E-28	2 MAP1B	0.431
1.03E-32	0.878892	0.977	0.973	1.62E-28	2 MYL6	0.004
3.24E-32	1.063652	0.5	0.119	5.10E-28	2 GEM	0.381
5.58E-32	0.719528	0.273	0.026	8.78E-28	2 TBX2	0.247
6.84E-32	0.650209	0.258	0.022	1.08E-27	2 CARMN	0.236
1.37E-31	0.780433	0.939	0.767	2.16E-27	2 COX6A1	0.172
3.90E-31	0.634514	1	0.982	6.13E-27	2 ACTB	0.018
8.95E-31	1.11955	0.462	0.108	1.41E-26	2 C2orf40	0.354
9.40E-31	0.97587	0.318	0.043	1.48E-26	2 FOXS1	0.275
9.52E-31	1.14418	0.909	0.561	1.50E-26	2 LHFP	0.348
1.14E-30	1.056292	0.924	0.637	1.79E-26	2 SELM	0.287
7.70E-30	1.647851	0.424	0.097	1.21E-25	2 SORBS2	0.327
2.01E-29	0.841802	0.917	0.835	3.16E-25	2 CALM2	0.082
3.11E-29	1.029272	0.538	0.169	4.90E-25	2 PACSIN2	0.369
1.92E-28	0.68439	0.288	0.037	3.02E-24	2 S1PR3	0.251
2.13E-28	0.873995	0.409	0.086	3.35E-24	2 KCNAB1	0.323

2.38E-28	0.774269	0.333	0.054	3.74E-24	2 RBPMS2	0.279
4.14E-28	0.893879	0.341	0.056	6.50E-24	2 PPP1R12B	0.285
6.91E-28	0.681764	0.303	0.043	1.09E-23	2 GJC1	0.26
1.34E-27	0.7957	0.364	0.067	2.10E-23	2 ANO1	0.297
2.00E-27	0.747705	0.644	0.264	3.15E-23	2 CRYAB	0.38
2.76E-27	0.883609	0.424	0.1	4.34E-23	2 RARRES2	0.324
3.08E-27	0.813962	0.356	0.064	4.84E-23	2 HSPB8	0.292
3.97E-27	0.865458	0.909	0.609	6.24E-23	2 7-Sep	0.3
8.48E-27	0.802861	0.811	0.537	1.33E-22	2 NDUFB7	0.274
1.19E-26	1.581482	0.485	0.14	1.88E-22	2 HSPB6	0.345
1.49E-26	0.88301	0.295	0.044	2.34E-22	2 KCNE4	0.251
1.55E-26	1.451433	0.455	0.126	2.44E-22	2 ABCC9	0.329
3.58E-26	0.855951	0.917	0.769	5.64E-22	2 ALDOA	0.148
9.12E-26	0.892205	0.386	0.087	1.43E-21	2 MOCS1	0.299
1.37E-25	0.869181	0.318	0.056	2.16E-21	2 BMP5	0.262
3.13E-25	1.047372	0.659	0.284	4.92E-21	2 SMIM3	0.375
4.67E-25	0.722105	0.894	0.417	7.34E-21	2 BGN	0.477
1.60E-24	0.790475	0.561	0.181	2.51E-20	2 FRZB	0.38
3.09E-24	0.946198	0.705	0.371	4.86E-20	2 ASAH1	0.334
5.70E-24	0.992654	0.773	0.401	8.96E-20	2 IGFBP5	0.372
1.09E-23	0.641387	0.265	0.039	1.72E-19	2 ENPEP	0.226
1.18E-23	0.722195	0.311	0.057	1.85E-19	2 PGF	0.254
3.25E-23	0.725781	0.909	0.769	5.11E-19	2 COX5B	0.14
4.49E-23	0.801305	0.455	0.127	7.06E-19	2 HEYL	0.328
7.93E-23	0.624406	0.288	0.048	1.25E-18	2 PDE3A	0.24
2.03E-22	0.712869	0.303	0.058	3.20E-18	2 NFASC	0.245
3.99E-22	0.861387	0.682	0.346	6.27E-18	2 LPP	0.336
5.12E-22	0.59732	0.288	0.051	8.05E-18	2 NRGN	0.237
6.86E-22	0.734214	0.909	0.745	1.08E-17	2 COX7A2	0.164
7.12E-22	0.889252	0.735	0.495	1.12E-17	2 ARPC1A	0.24
8.62E-22	0.845775	0.424	0.121	1.36E-17	2 FGF1	0.303
1.05E-21	0.710616	0.364	0.086	1.65E-17	2 GPRC5C	0.278
3.10E-21	0.658842	0.326	0.071	4.88E-17	2 EFHD1	0.255
5.43E-21	0.776822	0.288	0.057	8.54E-17	2 FHL5	0.231
6.26E-21	0.593881	0.909	0.659	9.85E-17	2 COX7A1	0.25
6.50E-21	0.908635	0.977	0.809	1.02E-16	2 MT2A	0.168
6.96E-21	0.648015	0.939	0.835	1.09E-16	2 SEPW1	0.104
1.40E-20	0.806808	0.682	0.366	2.20E-16	2 CYSTM1	0.316
2.08E-20	0.730225	0.394	0.108	3.27E-16	2 NEXN	0.286
3.29E-20	0.738392	0.682	0.346	5.18E-16	2 NUPR1	0.336
3.41E-20	0.750192	0.909	0.744	5.37E-16	2 HSPB1	0.165
4.97E-20	0.881244	0.288	0.059	7.81E-16	2 P2RY14	0.229
1.01E-19	0.857365	0.333	0.083	1.58E-15	2 GPRIN3	0.25
8.39E-19	0.789947	0.917	0.697	1.32E-14	2 ITGB1	0.22
8.85E-19	0.719693	0.871	0.708	1.39E-14	2 TPI1	0.163
9.16E-19	0.979877	0.523	0.229	1.44E-14	2 PTP4A3	0.294
1.15E-18	0.740474	0.455	0.161	1.81E-14	2 SYNPO2	0.294
1.77E-18	0.640816	0.886	0.686	2.78E-14	2 TPM1	0.2
1.84E-18	0.662008	0.364	0.102	2.90E-14	2 NUDT4	0.262
2.25E-18	0.687838	0.795	0.556	3.54E-14	2 NDUFB10	0.239
2.53E-18	0.609152	0.902	0.764	3.98E-14	2 SKP1	0.138
6.73E-18	0.745622	0.492	0.199	1.06E-13	2 DBNDD2	0.293
6.94E-18	0.713683	0.788	0.575	1.09E-13	2 COX7B	0.213
7.79E-18	0.593347	0.28	0.062	1.22E-13	2 PRKG1	0.218
1.28E-17	0.80161	0.727	0.494	2.01E-13	2 ATP5B	0.233
1.46E-17	0.729122	0.78	0.528	2.30E-13	2 TSC22D1	0.252
1.74E-17	0.745614	0.644	0.371	2.73E-13	2 RSU1	0.273
1.75E-17	0.613011	0.265	0.056	2.74E-13	2 FAT1	0.209

2.67E-17	0.779757	0.644	0.376	4.19E-13	2 HCFC1R1	0.268
2.96E-17	0.84041	0.545	0.261	4.65E-13	2 PPP1R12A	0.284
6.87E-17	1.166821	0.326	0.095	1.08E-12	2 KCNJ8	0.231
7.87E-17	0.548157	0.318	0.083	1.24E-12	2 A1BG	0.235
1.66E-16	0.755192	0.386	0.13	2.61E-12	2 DTX3	0.256
3.75E-16	0.789432	0.258	0.06	5.90E-12	2 GPAT2	0.198
4.64E-16	0.913267	0.508	0.236	7.30E-12	2 LBH	0.272
6.35E-16	0.566544	0.258	0.059	9.98E-12	2 MSC-AS1	0.199
9.35E-16	0.584128	0.818	0.645	1.47E-11	2 CD151	0.173
9.91E-16	0.567845	0.826	0.652	1.56E-11	2 COX8A	0.174
1.77E-15	0.68468	0.356	0.114	2.78E-11	2 ARHGAP10	0.242
2.26E-15	1.144407	0.561	0.296	3.56E-11	2 SNCG	0.265
2.96E-15	0.611564	0.295	0.08	4.66E-11	2 PDE1A	0.215
4.26E-15	0.78323	0.515	0.241	6.70E-11	2 NDRG2	0.274
5.20E-15	0.675472	0.447	0.178	8.18E-11	2 VCL	0.269
9.44E-15	0.723823	0.583	0.3	1.48E-10	2 CRIP1	0.283
1.11E-14	0.585881	0.265	0.068	1.74E-10	2 NT5DC2	0.197
1.11E-14	0.809595	0.447	0.188	1.75E-10	2 FAM213A	0.259
1.19E-14	0.780854	0.614	0.34	1.86E-10	2 SLC38A2	0.274
1.45E-14	0.563533	0.288	0.081	2.27E-10	2 TESC	0.207
3.33E-14	0.776271	0.47	0.222	5.23E-10	2 AC013461	0.248
3.88E-14	0.645561	0.439	0.186	6.10E-10	2 SLC25A4	0.253
3.93E-14	0.6869	0.538	0.277	6.18E-10	2 PKIG	0.261
4.74E-14	0.698707	0.402	0.153	7.46E-10	2 DKK3	0.249
5.90E-14	0.571726	0.848	0.659	9.28E-10	2 ATP5G3	0.189
6.08E-14	0.524587	0.333	0.107	9.56E-10	2 RASGRP2	0.226
6.63E-14	0.734343	0.295	0.09	1.04E-09	2 TPPP3	0.205
1.08E-13	0.582809	0.811	0.503	1.70E-09	2 BCAM	0.308
1.70E-13	0.665281	0.394	0.152	2.67E-09	2 AK1	0.242
1.81E-13	0.579577	0.689	0.433	2.85E-09	2 NGFRAP1	0.256
1.83E-13	0.704239	0.455	0.207	2.88E-09	2 MAPRE2	0.248
1.89E-13	0.913445	0.341	0.118	2.97E-09	2 CKB	0.223
2.35E-13	0.609333	0.659	0.423	3.70E-09	2 NDUFA6	0.236
3.41E-13	0.638865	0.5	0.251	5.37E-09	2 FAM162A	0.249
3.73E-13	0.57698	0.674	0.449	5.87E-09	2 PRDX2	0.225
3.77E-13	0.580918	0.417	0.171	5.93E-09	2 FILIP1	0.246
4.42E-13	0.587289	0.356	0.128	6.96E-09	2 FAM129A	0.228
5.52E-13	0.674186	0.447	0.208	8.69E-09	2 OAZ2	0.239
6.23E-13	0.635845	0.697	0.497	9.80E-09	2 NDUFB9	0.2
7.66E-13	0.514753	0.356	0.126	1.20E-08	2 GSTM3	0.23
1.13E-12	0.633984	0.75	0.634	1.78E-08	2 SH3BGR1	0.116
1.18E-12	0.680816	0.621	0.368	1.85E-08	2 MEF2C	0.253
1.63E-12	0.558712	0.371	0.139	2.56E-08	2 ITIH5	0.232
2.17E-12	0.957839	0.879	0.727	3.41E-08	2 SPARC	0.152
2.39E-12	0.812258	0.402	0.176	3.75E-08	2 C20orf27	0.226
3.76E-12	0.592308	0.553	0.268	5.91E-08	2 FXVD1	0.285
3.83E-12	0.992905	0.341	0.136	6.02E-08	2 NET1	0.205
4.01E-12	0.514126	0.841	0.634	6.31E-08	2 PLAC9	0.207
5.59E-12	0.596751	0.295	0.099	8.78E-08	2 OR51E1	0.196
5.76E-12	0.589432	0.295	0.098	9.06E-08	2 EBF2	0.197
6.99E-12	0.739895	0.576	0.342	1.10E-07	2 MAP1LC3A	0.234
1.04E-11	0.767264	0.341	0.131	1.64E-07	2 PCSK7	0.21
1.18E-11	0.698291	0.303	0.105	1.86E-07	2 CPM	0.198
1.91E-11	1.039703	0.758	0.535	3.00E-07	2 MT1E	0.223
1.96E-11	0.698362	0.477	0.229	3.08E-07	2 PDLIM3	0.248
3.18E-11	0.704236	0.606	0.401	5.01E-07	2 ILK	0.205
3.51E-11	0.55462	0.455	0.227	5.52E-07	2 MPRIP	0.228
4.10E-11	0.713148	0.53	0.291	6.45E-07	2 FILIP1L	0.239

5.27E-11	0.510288	0.364	0.149	8.29E-07	2 UBA2	0.215
6.22E-11	0.574339	0.379	0.161	9.79E-07	2 KANK2	0.218
1.04E-10	0.547817	0.606	0.39	1.64E-06	2 GHITM	0.216
1.28E-10	0.576503	0.356	0.15	2.01E-06	2 JADE1	0.206
1.59E-10	0.673784	0.523	0.327	2.50E-06	2 CCDC107	0.196
1.64E-10	0.52223	0.402	0.18	2.58E-06	2 MRPS6	0.222
1.80E-10	0.641485	0.606	0.422	2.84E-06	2 CYCS	0.184
2.01E-10	0.503127	0.78	0.686	3.16E-06	2 NDUFA1	0.094
3.06E-10	0.523262	0.455	0.234	4.82E-06	2 CFL2	0.221
3.13E-10	0.531978	0.689	0.52	4.92E-06	2 PGAM1	0.169
4.73E-10	0.558469	0.636	0.458	7.44E-06	2 PRKCDBP	0.178
4.85E-10	0.561171	0.273	0.099	7.63E-06	2 VSTM4	0.174
5.65E-10	0.616788	0.318	0.131	8.88E-06	2 PMEPA1	0.187
5.79E-10	0.826147	0.341	0.147	9.10E-06	2 PHLDA1	0.194
5.93E-10	0.657082	0.258	0.088	9.33E-06	2 CD248	0.17
7.44E-10	0.550968	0.485	0.268	1.17E-05	2 CYC1	0.217
1.20E-09	0.590752	0.53	0.31	1.89E-05	2 DLC1	0.22
1.39E-09	0.609124	0.455	0.245	2.19E-05	2 PTK2	0.21
1.44E-09	0.538862	0.667	0.461	2.26E-05	2 TUBA1A	0.206
1.89E-09	0.666427	0.455	0.247	2.98E-05	2 TGFBI	0.208
1.94E-09	0.542973	0.5	0.277	3.06E-05	2 ANXA6	0.223
3.41E-09	0.637867	0.379	0.186	5.36E-05	2 SELENBP1	0.193
3.79E-09	0.512991	0.318	0.138	5.96E-05	2 KLHDC8B	0.18
8.60E-09	0.500323	0.402	0.205	0.000135	2 RAB5B	0.197
9.49E-09	0.960214	0.318	0.147	0.000149	2 STEAP4	0.171
1.35E-08	0.528588	0.295	0.127	0.000212	2 FOXN2	0.168
1.41E-08	0.558024	0.636	0.496	0.000222	2 LDHB	0.14
1.50E-08	0.521626	0.326	0.142	0.000236	2 PALLD	0.184
1.98E-08	0.537621	0.28	0.117	0.000311	2 PDCL3	0.163
2.25E-08	0.512974	0.303	0.132	0.000354	2 RERG	0.171
2.59E-08	0.511679	0.409	0.222	0.000407	2 MDH1	0.187
5.31E-08	0.579241	0.447	0.278	0.000836	2 ACTN1	0.169
7.17E-08	0.512782	0.477	0.292	0.001128	2 FAM127B	0.185
8.89E-08	0.501196	0.508	0.332	0.001397	2 MAGED2	0.176
9.18E-08	0.539576	0.424	0.246	0.001443	2 PDLIM7	0.178
9.81E-08	0.64331	0.303	0.143	0.001542	2 GUCY1A2	0.16
3.49E-07	0.689141	0.348	0.189	0.005495	2 COLEC11	0.159
4.46E-07	0.511592	0.477	0.304	0.007021	2 MAT2A	0.173
4.62E-07	0.623994	0.591	0.384	0.00727	2 MT1M	0.207
6.98E-07	0.584608	0.333	0.176	0.01098	2 ITM2C	0.157
7.91E-07	0.838638	0.72	0.605	0.012443	2 PDK4	0.115
8.47E-07	0.525659	0.348	0.189	0.013324	2 EZR	0.159
2.04E-06	1.124672	0.477	0.401	0.032145	2 CSRP1	0.076
2.97E-06	0.511152	0.341	0.191	0.046737	2 HIF1A	0.15
1.45E-61	0.808761	0.811	0.111	2.29E-57	3 FAM162B	0.7
1.32E-59	0.815847	0.663	0.071	2.07E-55	3 KCNJ8	0.592
1.70E-57	0.962116	0.958	0.186	2.67E-53	3 GJA4	0.772
3.74E-57	1.178097	0.968	0.216	5.88E-53	3 HIGD1B	0.752
2.89E-56	0.922701	0.947	0.18	4.54E-52	3 AGT	0.767
1.61E-54	1.023286	0.979	0.213	2.54E-50	3 COX4I2	0.766
4.07E-50	0.8758	0.726	0.112	6.40E-46	3 ABCC9	0.614
1.81E-48	0.548769	0.6	0.069	2.85E-44	3 KLHL23	0.531
9.90E-47	0.766301	0.695	0.106	1.56E-42	3 FGF1	0.589
5.00E-44	0.554623	0.705	0.11	7.86E-40	3 GUCY1A2	0.595
6.16E-43	1.329477	1	0.507	9.69E-39	3 RGS5	0.493
1.85E-42	0.756787	0.695	0.117	2.91E-38	3 STEAP4	0.578
1.16E-41	0.763811	0.789	0.165	1.82E-37	3 FAM213A	0.624
1.66E-39	0.620239	0.779	0.154	2.61E-35	3 CPE	0.625

2.95E-39	0.730694	0.768	0.159	4.64E-35	3 PDGFRB	0.609
1.19E-37	1.040917	0.989	0.424	1.87E-33	3 NDUFA4L2	0.565
1.29E-37	0.56246	0.526	0.073	2.02E-33	3 EGFLAM	0.453
1.34E-37	0.599894	0.768	0.158	2.11E-33	3 FRMD3	0.61
1.11E-35	0.576077	0.768	0.165	1.75E-31	3 GUCY1B3	0.603
2.02E-34	0.65169	0.905	0.252	3.17E-30	3 ISYNA1	0.653
4.69E-34	0.717761	0.811	0.207	7.38E-30	3 4-Sep	0.604
7.39E-30	0.731137	0.863	0.258	1.16E-25	3 MAP1B	0.605
9.09E-30	0.504008	0.779	0.189	1.43E-25	3 MTHFD2	0.59
5.83E-26	0.647444	1	0.626	9.16E-22	3 CALD1	0.374
2.36E-24	0.613481	0.842	0.296	3.71E-20	3 EPS8	0.546
7.97E-21	0.701637	0.874	0.371	1.25E-16	3 CLEC3B	0.503
9.40E-21	0.535962	0.821	0.29	1.48E-16	3 DLC1	0.531
3.08E-20	0.521126	1	0.565	4.84E-16	3 LHFP	0.435
8.11E-20	0.593333	0.968	0.533	1.28E-15	3 FXYD6	0.435
8.49E-18	0.626693	1	0.544	1.34E-13	3 CD36	0.456
2.44E-17	0.524395	1	0.721	3.83E-13	3 SPARC	0.279
3.68E-17	0.540652	0.989	0.563	5.79E-13	3 MGLL	0.426
2.11E-14	0.53856	1	0.567	3.31E-10	3 FABP4	0.433
6.70E-202	2.882743	0.901	0.004	1.05E-197	4 CST7	0.897
2.89E-197	2.552387	0.852	0.001	4.55E-193	4 CD69	0.851
1.51E-191	3.312677	0.84	0.002	2.38E-187	4 CCL5	0.838
3.25E-189	4.124998	0.914	0.011	5.12E-185	4 NKG7	0.903
2.93E-188	2.42185	0.827	0.002	4.61E-184	4 GZMA	0.825
2.32E-179	2.31603	0.79	0.002	3.66E-175	4 CTSW	0.788
1.03E-166	2.346301	0.716	0	1.63E-162	4 KLRD1	0.716
5.99E-161	1.873389	0.704	0.001	9.42E-157	4 GZMM	0.703
9.79E-161	2.420247	0.691	0	1.54E-156	4 GZMH	0.691
3.58E-158	2.385451	0.704	0.002	5.63E-154	4 PRF1	0.702
1.22E-155	1.957182	0.704	0.003	1.92E-151	4 TRBC2	0.701
1.22E-155	2.460005	0.704	0.003	1.92E-151	4 CD7	0.701
4.96E-150	2.34034	0.926	0.036	7.80E-146	4 RAC2	0.89
4.25E-140	2.783179	0.617	0.001	6.69E-136	4 GZMB	0.616
2.73E-131	2.218729	0.58	0.001	4.30E-127	4 CD3E	0.579
2.36E-128	2.317719	0.568	0.001	3.71E-124	4 KLRB1	0.567
2.50E-125	1.753802	0.543	0	3.94E-121	4 TRBC1	0.543
2.50E-125	1.443967	0.543	0	3.94E-121	4 LINC00861	0.543
7.45E-124	2.294388	0.914	0.053	1.17E-119	4 HCST	0.861
2.06E-122	1.307682	0.531	0	3.24E-118	4 PYHIN1	0.531
1.49E-120	3.649774	0.889	0.053	2.35E-116	4 CCL4	0.836
1.68E-119	1.51768	0.519	0	2.64E-115	4 CD247	0.519
7.21E-117	1.524191	0.531	0.002	1.13E-112	4 CD2	0.529
2.24E-113	3.324102	0.617	0.013	3.53E-109	4 GNLY	0.604
1.25E-111	1.983267	0.877	0.059	1.96E-107	4 PTPRC	0.818
6.55E-108	1.699981	0.469	0	1.03E-103	4 CD3D	0.469
7.27E-108	1.588049	0.654	0.021	1.14E-103	4 GPR65	0.633
2.85E-99	1.147648	0.432	0	4.49E-95	4 PTPRCAP	0.432
1.47E-96	1.963621	0.778	0.055	2.31E-92	4 CXCR4	0.723
3.25E-96	1.632433	0.593	0.02	5.11E-92	4 IL2RG	0.573
2.79E-95	1.964148	0.728	0.044	4.38E-91	4 CORO1A	0.684
1.55E-93	1.450903	0.42	0.001	2.44E-89	4 KLRF1	0.419
2.82E-93	1.084274	0.42	0.001	4.43E-89	4 SKAP1	0.419
7.99E-88	1.053609	0.383	0	1.26E-83	4 ITK	0.383
2.24E-87	1.191235	0.457	0.007	3.52E-83	4 TBC1D10C	0.45
6.14E-85	1.095172	0.383	0.001	9.66E-81	4 RHOH	0.382
6.14E-85	1.045761	0.383	0.001	9.66E-81	4 ZAP70	0.382
7.75E-84	1.379901	0.605	0.03	1.22E-79	4 CD53	0.575
3.94E-82	1.629651	0.358	0	6.20E-78	4 XCL2	0.358

3.94E-82	1.42879	0.358	0	6.20E-78	4 CD8A	0.358
1.48E-81	1.328875	0.568	0.024	2.32E-77	4 C12orf75	0.544
7.89E-81	1.268993	0.494	0.015	1.24E-76	4 BIN2	0.479
2.94E-80	1.835864	0.654	0.046	4.62E-76	4 HOPX	0.608
8.42E-80	1.435292	0.395	0.004	1.32E-75	4 LAIR2	0.391
2.99E-79	1.069978	0.358	0.001	4.70E-75	4 LCK	0.357
1.10E-76	1.056174	0.37	0.003	1.73E-72	4 DENND2D	0.367
1.26E-76	1.612021	0.704	0.057	1.97E-72	4 LCP1	0.647
6.01E-75	1.682527	0.704	0.06	9.46E-71	4 ITGB2	0.644
1.25E-73	1.309465	0.321	0	1.97E-69	4 KLRC1	0.321
1.25E-73	1.598107	0.321	0	1.97E-69	4 XCL1	0.321
1.25E-73	0.904118	0.321	0	1.97E-69	4 SCML4	0.321
3.09E-73	1.15763	0.444	0.013	4.86E-69	4 LAT	0.431
5.11E-72	1.389819	0.778	0.077	8.03E-68	4 LAPTM5	0.701
8.38E-71	0.970056	0.309	0	1.32E-66	4 AC092580.	0.309
1.03E-70	1.02489	0.432	0.013	1.63E-66	4 ACAP1	0.419
1.69E-70	1.451536	0.531	0.028	2.66E-66	4 ALOX5AP	0.503
2.00E-69	1.155551	0.395	0.009	3.14E-65	4 ARL4C	0.386
1.35E-68	1.372617	0.568	0.037	2.12E-64	4 CYTIP	0.531
4.19E-68	1.24198	0.432	0.015	6.58E-64	4 TAGAP	0.417
5.53E-68	1.246354	0.296	0	8.70E-64	4 CD8B	0.296
5.53E-68	0.889367	0.296	0	8.70E-64	4 CD96	0.296
6.45E-68	0.902577	0.309	0.001	1.01E-63	4 SAMD3	0.308
7.93E-68	0.980931	0.37	0.007	1.25E-63	4 TRAF3IP3	0.363
9.07E-68	1.422647	0.642	0.052	1.43E-63	4 CD37	0.59
7.78E-67	1.268416	0.444	0.017	1.22E-62	4 PLAC8	0.427
3.61E-65	0.927287	0.284	0	5.68E-61	4 CD3G	0.284
4.26E-65	1.02106	0.296	0.001	6.70E-61	4 IL2RB	0.295
6.50E-65	0.995782	0.358	0.007	1.02E-60	4 STAT4	0.351
2.91E-64	1.366474	0.519	0.033	4.58E-60	4 ITGA4	0.486
1.23E-63	0.849481	0.333	0.005	1.93E-59	4 RUNX3	0.328
9.32E-63	1.086356	0.444	0.02	1.47E-58	4 RHOF	0.424
2.79E-62	0.781685	0.284	0.001	4.38E-58	4 IKZF3	0.283
2.79E-62	0.813651	0.284	0.001	4.38E-58	4 SH2D1A	0.283
1.72E-61	1.382659	0.506	0.034	2.70E-57	4 PRDM1	0.472
1.49E-59	1.033105	0.259	0	2.34E-55	4 TXK	0.259
5.59E-59	1.499568	0.494	0.033	8.79E-55	4 FGF2	0.461
1.59E-57	1.358288	0.667	0.081	2.50E-53	4 GPSM3	0.586
5.06E-57	1.430214	0.63	0.075	7.96E-53	4 ISG20	0.555
1.18E-56	0.758793	0.259	0.001	1.85E-52	4 SLA2	0.258
4.38E-55	1.159527	0.481	0.035	6.89E-51	4 SELPLG	0.446
6.69E-55	0.920252	0.284	0.004	1.05E-50	4 SYTL3	0.28
7.35E-54	0.947601	0.346	0.012	1.16E-49	4 DEF6	0.334
6.19E-52	1.533629	0.642	0.09	9.74E-48	4 EVL	0.552
6.64E-52	1.439153	0.617	0.076	1.04E-47	4 UCP2	0.541
1.61E-51	1.523673	0.259	0.003	2.54E-47	4 IL7R	0.256
5.39E-51	0.885115	0.346	0.014	8.47E-47	4 ITGAL	0.332
1.07E-50	1.010996	0.407	0.024	1.69E-46	4 CD48	0.383
1.32E-50	0.944421	0.309	0.009	2.07E-46	4 SPN	0.3
1.93E-50	1.751329	0.667	0.103	3.04E-46	4 CD52	0.564
1.37E-49	0.976997	0.346	0.015	2.16E-45	4 PTGER2	0.331
2.56E-49	1.505344	0.617	0.09	4.03E-45	4 GNG2	0.527
2.03E-48	0.965488	0.333	0.014	3.19E-44	4 KLRG1	0.319
3.26E-48	1.433802	0.58	0.075	5.12E-44	4 LIMD2	0.505
1.46E-47	1.095539	0.469	0.04	2.30E-43	4 FYB	0.429
6.47E-47	1.244783	0.444	0.038	1.02E-42	4 APOBEC3C	0.406
4.08E-46	0.904019	0.333	0.016	6.41E-42	4 SASH3	0.317
4.21E-46	0.876339	0.333	0.016	6.62E-42	4 SLC38A1	0.317

1.17E-44	0.98517	0.321	0.015	1.84E-40	4 IKZF1	0.306
3.50E-43	1.05514	1	0.997	5.51E-39	4 RPS27	0.003
1.16E-41	0.969473	0.407	0.035	1.83E-37	4 WAS	0.372
1.60E-41	0.855706	0.346	0.022	2.51E-37	4 PLEK	0.324
3.27E-41	0.893636	0.284	0.012	5.15E-37	4 CX3CR1	0.272
7.00E-41	0.950995	0.296	0.014	1.10E-36	4 SH2D2A	0.282
7.47E-40	1.771942	0.383	0.031	1.17E-35	4 AREG	0.352
6.26E-39	1.076122	0.457	0.053	9.85E-35	4 PARP8	0.404
7.92E-38	1.376754	0.988	0.89	1.25E-33	4 PFN1	0.098
1.51E-37	1.037313	0.469	0.06	2.37E-33	4 LCP2	0.409
1.29E-36	0.956153	0.37	0.033	2.02E-32	4 SLA	0.337
5.28E-36	1.036415	0.383	0.038	8.31E-32	4 PTGDR	0.345
9.83E-36	0.825768	0.346	0.028	1.55E-31	4 EMB	0.318
2.59E-35	0.968128	1	0.976	4.07E-31	4 RPS3	0.024
8.98E-35	1.367921	0.704	0.199	1.41E-30	4 RARRES3	0.505
1.07E-34	1.319849	0.605	0.123	1.68E-30	4 CTSC	0.482
6.12E-34	0.909056	0.333	0.029	9.62E-30	4 PIM1	0.304
9.43E-34	0.693597	0.259	0.014	1.48E-29	4 CYFIP2	0.245
2.95E-33	0.999168	0.407	0.05	4.65E-29	4 1-Sep	0.357
3.49E-33	1.226451	0.556	0.109	5.49E-29	4 ADGRE5	0.447
3.94E-33	0.873262	0.284	0.019	6.20E-29	4 MYO1F	0.265
1.02E-32	0.818172	1	0.989	1.60E-28	4 RPS15A	0.011
2.66E-32	0.773598	0.284	0.02	4.19E-28	4 ARHGAP3C	0.264
4.10E-32	0.97557	0.383	0.041	6.44E-28	4 FCGR3A	0.342
8.20E-31	1.060501	0.951	0.847	1.29E-26	4 RPS29	0.104
3.80E-30	0.785093	0.346	0.038	5.98E-26	4 KCNAB2	0.308
9.59E-30	0.662684	1	0.998	1.51E-25	4 RPL41	0.002
2.58E-29	0.975522	0.42	0.065	4.06E-25	4 SLC9A3R1	0.355
4.28E-29	0.742867	1	0.992	6.74E-25	4 TMSB4X	0.008
4.41E-29	0.742042	0.321	0.032	6.94E-25	4 DOK2	0.289
6.59E-29	0.934227	0.469	0.084	1.04E-24	4 FAM49B	0.385
1.08E-28	0.815954	0.333	0.038	1.69E-24	4 AIM1	0.295
1.23E-27	1.219192	0.568	0.147	1.93E-23	4 PPP1R18	0.421
3.29E-27	0.985967	0.938	0.658	5.17E-23	4 ARHGDIB	0.28
4.86E-27	0.695223	1	0.983	7.65E-23	4 RPL28	0.017
7.44E-27	0.779981	0.321	0.037	1.17E-22	4 FAM65B	0.284
1.64E-26	0.764523	0.309	0.034	2.58E-22	4 IL10RA	0.275
1.69E-26	1.070129	0.42	0.074	2.66E-22	4 TUBA4A	0.346
1.76E-26	0.718542	0.321	0.037	2.77E-22	4 AKNA	0.284
3.11E-26	1.215002	0.938	0.838	4.89E-22	4 SH3BGRL3	0.1
4.86E-26	0.733505	1	0.971	7.65E-22	4 RPS21	0.029
7.63E-26	1.21895	0.778	0.326	1.20E-21	4 ZFP36L2	0.452
9.15E-26	1.094325	0.951	0.513	1.44E-21	4 SRGN	0.438
1.72E-25	0.658937	1	0.98	2.70E-21	4 RPS27A	0.02
3.75E-25	0.678146	1	0.968	5.89E-21	4 RPS14	0.032
3.95E-25	0.948863	0.457	0.073	6.21E-21	4 TYROBP	0.384
1.62E-24	0.867173	0.988	0.894	2.55E-20	4 RPL23A	0.094
2.47E-24	1.243454	0.42	0.071	3.89E-20	4 FCER1G	0.349
3.17E-24	0.730367	0.321	0.043	4.98E-20	4 FAM107B	0.278
3.66E-24	0.543573	1	0.997	5.76E-20	4 RPL1	0.003
4.01E-24	1.113787	0.802	0.397	6.30E-20	4 CCND3	0.405
6.78E-24	1.418618	0.296	0.034	1.07E-19	4 CCL3	0.262
7.79E-24	1.035089	0.42	0.079	1.23E-19	4 NR4A2	0.341
1.15E-23	0.804754	0.309	0.041	1.81E-19	4 BIN1	0.268
1.23E-23	0.946378	0.58	0.165	1.94E-19	4 CELF2	0.415
4.02E-23	0.862277	0.469	0.099	6.32E-19	4 VAMP8	0.37
4.10E-23	0.642411	1	0.931	6.45E-19	4 RPLP2	0.069
4.64E-23	0.582263	1	0.992	7.30E-19	4 RPL30	0.008

5.65E-23	0.777046	1	0.981	8.88E-19	4 RPS19	0.019
5.73E-23	0.693442	1	0.986	9.02E-19	4 RPS26	0.014
5.93E-23	0.870035	0.407	0.079	9.33E-19	4 TSTD1	0.328
9.64E-23	0.640002	1	0.992	1.52E-18	4 RPL39	0.008
1.54E-22	0.698504	1	0.989	2.42E-18	4 RPS12	0.011
3.44E-22	0.930284	1	0.983	5.41E-18	4 ACTB	0.017
3.87E-21	0.603741	1	0.966	6.09E-17	4 RPL3	0.034
4.65E-21	0.958929	0.852	0.336	7.32E-17	4 S100A4	0.516
7.58E-21	1.195508	0.556	0.178	1.19E-16	4 KIAA1551	0.378
3.37E-20	0.88921	0.358	0.068	5.30E-16	4 MBP	0.29
2.35E-19	0.669967	0.975	0.874	3.69E-15	4 MYL12A	0.101
2.59E-19	0.586177	1	0.976	4.07E-15	4 RPS18	0.024
3.54E-19	0.503508	1	0.986	5.57E-15	4 RPL19	0.014
3.86E-19	0.986576	0.494	0.149	6.08E-15	4 CCNH	0.345
9.31E-19	0.542096	1	0.966	1.46E-14	4 RPS4X	0.034
1.03E-18	0.784714	0.333	0.064	1.61E-14	4 FKBP11	0.269
1.40E-18	0.760128	0.926	0.814	2.20E-14	4 RPSA	0.112
1.78E-18	0.640889	1	0.953	2.80E-14	4 RPL14	0.047
1.86E-18	1.187294	0.519	0.157	2.93E-14	4 SPON2	0.362
3.61E-18	0.55853	1	0.994	5.68E-14	4 B2M	0.006
3.68E-18	0.576782	1	0.976	5.79E-14	4 RPL18A	0.024
5.71E-18	0.913067	0.84	0.658	8.99E-14	4 YWHAZ	0.182
1.59E-17	0.730856	0.272	0.044	2.50E-13	4 FERMT3	0.228
1.98E-17	0.872089	0.42	0.11	3.11E-13	4 STK17B	0.31
2.33E-17	0.974587	0.407	0.107	3.66E-13	4 CNN2	0.3
5.01E-17	0.525498	1	0.992	7.89E-13	4 RPL13	0.008
9.03E-17	0.759317	0.309	0.062	1.42E-12	4 TMEM2	0.247
1.49E-16	0.789406	0.802	0.533	2.34E-12	4 RAP1B	0.269
1.96E-16	0.564329	0.988	0.931	3.08E-12	4 RPL26	0.057
2.61E-16	0.505566	1	0.962	4.11E-12	4 RPL6	0.038
2.81E-16	0.840763	0.889	0.663	4.42E-12	4 ARPC2	0.226
3.73E-16	0.955951	0.395	0.11	5.87E-12	4 ARPC5L	0.285
4.97E-16	0.749424	0.951	0.861	7.82E-12	4 CFL1	0.09
7.85E-16	0.949824	0.407	0.117	1.23E-11	4 PPP2R5C	0.29
2.12E-15	0.769552	0.432	0.127	3.34E-11	4 HCLS1	0.305
3.25E-15	0.54721	1	0.928	5.10E-11	4 RPS6	0.072
4.53E-15	0.754718	0.309	0.068	7.13E-11	4 ANKRD44	0.241
5.34E-15	0.775761	0.383	0.104	8.40E-11	4 ICAM3	0.279
5.38E-15	0.973443	0.556	0.238	8.46E-11	4 RNF213	0.318
1.75E-14	0.880872	0.309	0.071	2.76E-10	4 PRKACB	0.238
1.85E-14	0.84665	0.494	0.184	2.91E-10	4 WIPF1	0.31
1.87E-14	0.734511	0.321	0.076	2.94E-10	4 RGS19	0.245
3.22E-14	0.682932	0.691	0.312	5.06E-10	4 LSP1	0.379
3.33E-14	0.522096	1	0.962	5.24E-10	4 RPL37	0.038
3.68E-14	0.570354	0.963	0.885	5.79E-10	4 TMA7	0.078
3.82E-14	0.833175	0.58	0.256	6.00E-10	4 GMFG	0.324
1.78E-13	1.549308	0.481	0.209	2.80E-09	4 CMC1	0.272
2.69E-13	0.589175	0.988	0.824	4.23E-09	4 TSC22D3	0.164
2.92E-13	0.848979	0.63	0.321	4.60E-09	4 BTG1	0.309
3.20E-13	0.810855	0.679	0.396	5.04E-09	4 C9orf142	0.283
4.18E-13	0.846531	0.284	0.067	6.57E-09	4 ZNF331	0.217
4.91E-13	0.935114	0.333	0.092	7.72E-09	4 STK4	0.241
5.31E-13	0.711576	0.494	0.193	8.35E-09	4 PRKCH	0.301
5.62E-13	0.637458	0.988	0.915	8.84E-09	4 AC090498.	0.073
7.95E-13	0.630123	0.284	0.066	1.25E-08	4 TNFAIP8	0.218
1.16E-12	0.596666	0.37	0.107	1.82E-08	4 RGS10	0.263
1.47E-12	0.958026	0.42	0.144	2.32E-08	4 CLIC3	0.276
1.96E-12	0.769556	0.358	0.109	3.09E-08	4 UPP1	0.249

2.71E-12	0.643276	0.259	0.058	4.26E-08	4 PTPN4	0.201
2.83E-12	0.865992	0.568	0.288	4.44E-08	4 ABRACL	0.28
3.64E-12	0.804103	0.605	0.326	5.72E-08	4 LITAF	0.279
3.80E-12	0.733701	0.938	0.887	5.97E-08	4 ACTG1	0.051
3.87E-12	0.895949	0.42	0.161	6.08E-08	4 FYN	0.259
1.14E-11	0.795727	0.519	0.235	1.80E-07	4 ID2	0.284
1.48E-11	0.656088	0.889	0.737	2.32E-07	4 EEF1B2	0.152
1.98E-11	0.570356	0.309	0.087	3.12E-07	4 STK10	0.222
2.30E-11	0.669378	0.333	0.098	3.62E-07	4 ARRB2	0.235
2.69E-11	0.643854	0.259	0.063	4.23E-07	4 CKS2	0.196
2.73E-11	0.615223	0.852	0.705	4.29E-07	4 RPL36A	0.147
2.76E-11	0.799096	0.296	0.085	4.35E-07	4 LYAR	0.211
5.74E-11	0.59137	0.272	0.072	9.02E-07	4 PTGER4	0.2
5.85E-11	0.550324	0.827	0.661	9.20E-07	4 SUB1	0.166
9.15E-11	0.799526	0.679	0.478	1.44E-06	4 EMP3	0.201
1.15E-10	0.674589	0.704	0.475	1.81E-06	4 HMGN1	0.229
1.62E-10	0.73677	0.543	0.293	2.55E-06	4 GTF3A	0.25
2.22E-10	0.55535	0.951	0.877	3.50E-06	4 RPL10A	0.074
2.90E-10	0.629303	0.309	0.094	4.55E-06	4 CSK	0.215
3.35E-10	0.554474	0.864	0.667	5.26E-06	4 PABPC1	0.197
3.74E-10	0.579774	0.802	0.634	5.89E-06	4 ARPC3	0.168
2.43E-09	0.581082	0.704	0.488	3.82E-05	4 PSMB9	0.216
2.50E-09	0.755085	0.358	0.14	3.93E-05	4 MAPK1	0.218
2.65E-09	0.675695	0.383	0.155	4.17E-05	4 ARHGEF1	0.228
3.05E-09	0.540547	0.914	0.765	4.80E-05	4 CLIC1	0.149
3.73E-09	0.579226	0.321	0.114	5.87E-05	4 CDC42SE2	0.207
4.96E-09	0.657559	0.432	0.187	7.79E-05	4 CD44	0.245
6.48E-09	0.792135	0.494	0.275	0.000102	4 CLEC2B	0.219
1.28E-08	0.615383	0.358	0.149	0.000201	4 SH3KBP1	0.209
1.30E-08	0.602756	0.642	0.436	0.000204	4 MBNL1	0.206
1.43E-08	0.53395	0.284	0.093	0.000225	4 RASA2	0.191
1.74E-08	0.615775	0.704	0.503	0.000274	4 TPM3	0.201
2.03E-08	0.638055	0.444	0.222	0.000319	4 TPST2	0.222
3.47E-08	0.778938	0.284	0.102	0.000546	4 CTD-32520	0.182
4.51E-08	0.658582	0.58	0.393	0.00071	4 ACTR3	0.187
4.94E-08	0.536658	0.272	0.092	0.000777	4 RAB29	0.18
5.93E-08	0.596948	0.333	0.131	0.000933	4 GLIPR2	0.202
6.80E-08	0.653996	0.642	0.479	0.001069	4 APRT	0.163
8.26E-08	0.555377	0.383	0.167	0.001299	4 PYCARD	0.216
1.80E-07	0.714115	0.284	0.109	0.002824	4 FLT3LG	0.175
2.31E-07	0.640033	0.333	0.145	0.003637	4 CDC42SE1	0.188
3.23E-07	0.580144	0.309	0.122	0.005083	4 GLIPR1	0.187
3.50E-07	0.577678	0.395	0.19	0.00551	4 TAP1	0.205
4.66E-07	0.593107	0.309	0.127	0.007327	4 ATM	0.182
5.12E-07	0.632146	0.309	0.13	0.008055	4 IDI1	0.179
5.91E-07	0.539828	0.358	0.164	0.009297	4 CKLF	0.194
6.29E-07	0.65906	0.531	0.336	0.009889	4 ETS1	0.195
1.08E-06	0.558847	0.383	0.189	0.017055	4 CASP4	0.194
1.36E-06	0.682415	0.556	0.414	0.021392	4 PRR13	0.142
1.45E-06	0.589572	0.568	0.422	0.022843	4 SRSF2	0.146
2.11E-06	0.558827	0.457	0.254	0.033144	4 LBH	0.203
2.18E-06	0.609151	0.457	0.273	0.034221	4 CARD16	0.184
2.70E-06	0.591307	0.284	0.122	0.042467	4 MAP3K8	0.162
2.89E-06	0.568758	0.617	0.469	0.045426	4 RSRP1	0.148
3.03E-218	2.872914	0.986	0.005	4.76E-214	5 AIF1	0.981
1.37E-199	3.035807	0.887	0.003	2.16E-195	5 LYZ	0.884
1.33E-191	2.210837	0.831	0.001	2.10E-187	5 MS4A7	0.83
1.86E-181	2.427261	0.775	0	2.93E-177	5 MS4A6A	0.775

1.86E-181	1.604892	0.775	0	2.93E-177	5 CYBB	0.775
3.66E-168	1.960001	0.746	0.002	5.76E-164	5 CD163	0.744
4.02E-164	2.274211	0.732	0.002	6.32E-160	5 LST1	0.73
1.20E-161	3.159996	0.732	0.003	1.89E-157	5 C1QA	0.729
3.41E-158	1.924467	0.718	0.003	5.36E-154	5 CSF1R	0.715
7.36E-152	3.122924	0.986	0.039	1.16E-147	5 TYROBP	0.947
1.78E-147	1.417245	0.648	0.001	2.80E-143	5 C3AR1	0.647
1.52E-146	2.359132	0.972	0.036	2.39E-142	5 FCER1G	0.936
1.35E-138	3.224606	0.648	0.004	2.12E-134	5 C1QB	0.644
5.52E-134	1.734107	0.592	0.001	8.68E-130	5 GPR34	0.591
2.36E-131	3.208762	0.606	0.003	3.70E-127	5 C1QC	0.603
7.62E-131	1.399703	0.592	0.002	1.20E-126	5 C5AR1	0.59
1.06E-130	1.583634	0.563	0	1.67E-126	5 MS4A4A	0.563
4.89E-124	1.267411	0.535	0	7.70E-120	5 MSR1	0.535
1.03E-120	1.580047	0.521	0	1.62E-116	5 VSIG4	0.521
1.03E-120	1.117641	0.521	0	1.62E-116	5 1-Mar	0.521
2.27E-120	0.955325	0.535	0.001	3.58E-116	5 HCK	0.534
4.82E-117	1.671246	0.521	0.001	7.58E-113	5 SERPINA1	0.52
4.37E-114	1.785026	0.493	0	6.88E-110	5 FOLR2	0.493
8.83E-111	1.103541	0.479	0	1.39E-106	5 MPEG1	0.479
1.36E-110	1.120232	0.493	0.001	2.14E-106	5 CLEC7A	0.492
4.58E-110	2.545917	0.549	0.006	7.20E-106	5 CXCL8	0.543
7.34E-110	2.303853	0.887	0.06	1.15E-105	5 CD68	0.827
2.77E-107	1.421965	0.479	0.001	4.35E-103	5 LILRB2	0.478
3.07E-104	2.853559	0.465	0.001	4.82E-100	5 IL1B	0.464
1.33E-103	1.695356	0.676	0.024	2.09E-99	5 C1orf162	0.652
1.28E-97	1.535433	0.423	0	2.02E-93	5 MRC1	0.423
6.28E-96	1.217332	0.577	0.015	9.88E-92	5 COTL1	0.562
2.58E-92	1.306935	0.535	0.012	4.06E-88	5 IFI30	0.523
6.84E-92	1.815495	0.69	0.036	1.08E-87	5 CD83	0.654
4.51E-91	0.827817	0.394	0	7.10E-87	5 LRRC25	0.394
4.59E-91	0.89496	0.437	0.003	7.22E-87	5 NCF4	0.434
5.16E-91	0.936912	0.423	0.002	8.12E-87	5 RBM47	0.421
4.33E-89	1.447626	0.62	0.026	6.81E-85	5 MAFB	0.594
5.20E-88	1.47805	0.408	0.002	8.18E-84	5 LYVE1	0.406
1.14E-87	2.502407	0.394	0.001	1.79E-83	5 S100A9	0.393
4.15E-85	1.21795	0.423	0.004	6.52E-81	5 GPR183	0.419
8.12E-85	1.176092	0.408	0.003	1.28E-80	5 FCGR2B	0.405
1.51E-84	1.115303	0.366	0	2.37E-80	5 CLEC10A	0.366
2.04E-84	0.832496	0.38	0.001	3.21E-80	5 SPI1	0.379
2.19E-84	2.033483	0.803	0.07	3.45E-80	5 CTSS	0.733
2.48E-84	0.921916	0.38	0.001	3.90E-80	5 FPR3	0.379
2.70E-84	1.006217	0.451	0.007	4.25E-80	5 PILRA	0.444
2.95E-84	2.238965	0.479	0.01	4.64E-80	5 BCL2A1	0.469
3.10E-84	0.777319	0.38	0.001	4.87E-80	5 LILRB4	0.379
6.87E-84	1.641169	0.845	0.076	1.08E-79	5 VAMP8	0.769
1.89E-82	1.111603	0.479	0.011	2.98E-78	5 FCGR2A	0.468
1.90E-82	0.86373	0.423	0.005	2.99E-78	5 BCAT1	0.418
4.79E-82	1.833168	0.845	0.079	7.53E-78	5 LAPTM5	0.766
6.01E-82	1.535181	0.69	0.044	9.45E-78	5 CXCL16	0.646
9.03E-82	1.611915	0.831	0.077	1.42E-77	5 RGS10	0.754
2.05E-81	0.853147	0.394	0.003	3.23E-77	5 RGS18	0.391
2.30E-81	1.147843	0.38	0.002	3.61E-77	5 NLRP3	0.378
2.70E-81	0.881219	0.352	0	4.24E-77	5 MNDA	0.352
2.70E-81	0.698485	0.352	0	4.24E-77	5 LILRA6	0.352
3.55E-81	1.377597	0.803	0.059	5.58E-77	5 ITGB2	0.744
5.04E-81	0.845	0.366	0.001	7.93E-77	5 NCF2	0.365
2.49E-80	1.366691	0.732	0.053	3.92E-76	5 SMAP2	0.679

4.77E-78	0.765003	0.338	0	7.50E-74	5 FGD2	0.338
4.77E-78	0.75492	0.338	0	7.50E-74	5 CLEC4E	0.338
8.25E-78	1.410793	0.775	0.058	1.30E-73	5 LCP1	0.717
2.38E-77	1.404992	0.507	0.017	3.74E-73	5 CD14	0.49
2.46E-77	1.320058	0.479	0.013	3.88E-73	5 NCF1	0.466
2.75E-76	1.395566	0.437	0.009	4.33E-72	5 HMOX1	0.428
3.29E-75	1.434207	0.366	0.003	5.18E-71	5 F13A1	0.363
8.32E-75	0.722401	0.324	0	1.31E-70	5 CD86	0.324
1.00E-74	0.802658	0.338	0.001	1.57E-70	5 C19orf38	0.337
2.87E-74	0.937737	0.521	0.021	4.51E-70	5 TBXAS1	0.5
1.72E-72	1.311738	0.761	0.07	2.71E-68	5 ARRB2	0.691
2.39E-72	0.878114	0.366	0.004	3.76E-68	5 SLC1A3	0.362
9.43E-72	1.448458	0.704	0.053	1.48E-67	5 CD37	0.651
1.20E-71	0.927628	0.338	0.002	1.88E-67	5 CFP	0.336
1.25E-70	0.685	0.394	0.007	1.96E-66	5 CD4	0.387
2.04E-68	1.284823	0.324	0.002	3.21E-64	5 LINC01272	0.322
2.44E-68	0.654694	0.296	0	3.84E-64	5 IGSF6	0.296
2.44E-68	0.614598	0.296	0	3.84E-64	5 LILRB3	0.296
2.85E-68	1.504757	0.31	0.001	4.48E-64	5 FCN1	0.309
2.86E-68	1.193619	0.803	0.072	4.51E-64	5 PTPRC	0.731
4.18E-68	0.966652	0.31	0.001	6.58E-64	5 FCGR1A	0.309
2.62E-65	0.857114	0.324	0.003	4.11E-61	5 RNASE6	0.321
4.10E-65	0.622876	0.282	0	6.44E-61	5 CSF2RA	0.282
4.84E-65	0.774737	0.296	0.001	7.61E-61	5 FPR1	0.295
6.55E-65	0.947072	0.408	0.012	1.03E-60	5 CSTA	0.396
6.72E-65	0.598985	0.296	0.001	1.06E-60	5 CSF3R	0.295
1.18E-64	1.043266	0.563	0.037	1.85E-60	5 SLC31A2	0.526
2.42E-63	0.870386	0.366	0.008	3.81E-59	5 SLC7A7	0.358
2.88E-63	0.894538	0.338	0.005	4.53E-59	5 CD84	0.333
5.26E-63	0.819674	0.394	0.011	8.27E-59	5 POU2F2	0.383
2.82E-62	1.073283	0.38	0.01	4.44E-58	5 STXBP2	0.37
5.85E-62	0.753678	0.352	0.007	9.19E-58	5 NPL	0.345
1.18E-61	0.928983	0.366	0.009	1.86E-57	5 SLC11A1	0.357
1.22E-61	2.102952	0.662	0.066	1.92E-57	5 TNFAIP3	0.596
3.25E-61	1.563772	0.535	0.034	5.10E-57	5 FCGR3A	0.501
4.36E-61	0.797628	0.394	0.012	6.86E-57	5 THEMIS2	0.382
1.43E-60	1.08968	0.563	0.038	2.25E-56	5 FYB	0.525
5.75E-60	0.7809	0.352	0.008	9.05E-56	5 FAM26F	0.344
1.49E-59	0.6665	0.31	0.004	2.35E-55	5 ALOX5	0.306
4.06E-59	0.620053	0.296	0.003	6.38E-55	5 CLEC4A	0.293
5.90E-59	0.554294	0.296	0.003	9.28E-55	5 BTK	0.293
7.98E-59	0.732039	0.338	0.007	1.26E-54	5 SYK	0.331
1.11E-58	0.843938	0.254	0	1.75E-54	5 LILRB5	0.254
1.11E-58	0.746611	0.254	0	1.75E-54	5 LILRA5	0.254
1.11E-58	0.685829	0.254	0	1.75E-54	5 AQP9	0.254
1.11E-58	0.602167	0.254	0	1.75E-54	5 LY86	0.254
1.11E-58	0.575388	0.254	0	1.75E-54	5 GAPT	0.254
1.81E-58	0.682747	0.268	0.001	2.84E-54	5 EMILIN2	0.267
2.63E-58	0.84263	0.479	0.025	4.14E-54	5 IL10RA	0.454
5.43E-58	0.693616	0.38	0.012	8.55E-54	5 PARVG	0.368
2.87E-57	1.56556	0.437	0.021	4.51E-53	5 SAMSN1	0.416
3.35E-56	1.355087	0.408	0.017	5.27E-52	5 RGS1	0.391
7.28E-56	1.046334	0.451	0.024	1.14E-51	5 FGR	0.427
1.05E-55	1.25517	0.718	0.075	1.66E-51	5 HCST	0.643
2.94E-55	0.564182	0.254	0.001	4.62E-51	5 SLAMF8	0.253
1.28E-53	2.18853	0.451	0.026	2.01E-49	5 CCL3	0.425
1.70E-53	0.885565	0.423	0.021	2.67E-49	5 LAIR1	0.402
4.10E-53	0.921481	0.704	0.074	6.44E-49	5 CCL4	0.63

9.05E-53	0.625179	0.31	0.007	1.42E-48	5 CPVL	0.303
1.03E-52	0.889122	0.451	0.026	1.61E-48	5 DOK2	0.425
6.47E-52	1.190452	0.676	0.077	1.02E-47	5 UCP2	0.599
8.44E-52	0.889649	0.38	0.016	1.33E-47	5 IL18	0.364
3.69E-51	0.568071	0.282	0.005	5.80E-47	5 TLR2	0.277
2.00E-50	0.60593	0.268	0.004	3.15E-46	5 TMEM37	0.264
1.13E-49	1.358569	0.789	0.141	1.78E-45	5 PYCARD	0.648
1.49E-49	0.601164	0.296	0.007	2.34E-45	5 CH17-373	0.289
1.94E-49	0.771824	0.662	0.07	3.06E-45	5 CXCR4	0.592
1.07E-48	0.770021	0.479	0.034	1.68E-44	5 WAS	0.445
5.35E-48	0.752825	0.338	0.013	8.41E-44	5 ITGAM	0.325
1.47E-47	0.856103	0.296	0.008	2.32E-43	5 LILRB1	0.288
2.50E-47	0.848421	0.451	0.031	3.93E-43	5 SLA	0.42
3.01E-47	0.700621	0.254	0.004	4.74E-43	5 VMO1	0.25
2.41E-46	0.912212	0.521	0.045	3.79E-42	5 CYTIP	0.476
9.03E-46	0.933703	0.592	0.06	1.42E-41	5 CORO1A	0.532
1.39E-45	0.560775	0.268	0.006	2.18E-41	5 ACP5	0.262
3.97E-45	0.7222	0.324	0.013	6.25E-41	5 EVI2B	0.311
1.31E-44	2.138051	0.451	0.038	2.05E-40	5 CXCL3	0.413
7.48E-44	1.931012	0.718	0.134	1.18E-39	5 HLA-DQA1	0.584
1.91E-43	0.872788	0.296	0.011	3.01E-39	5 PTGS2	0.285
1.73E-42	0.737889	0.31	0.013	2.72E-38	5 CYTH4	0.297
1.25E-41	0.59093	0.268	0.008	1.97E-37	5 FAM105A	0.26
1.61E-41	1.20632	0.549	0.068	2.53E-37	5 RP11-160E	0.481
2.15E-41	2.044847	1	0.979	3.38E-37	5 FTL	0.021
3.16E-41	2.156649	0.972	0.472	4.97E-37	5 SAT1	0.5
5.58E-41	0.692859	0.465	0.04	8.78E-37	5 SELPLG	0.425
6.25E-41	2.227517	0.972	0.475	9.83E-37	5 HLA-DRA	0.497
1.28E-40	1.113241	0.69	0.124	2.01E-36	5 RNASET2	0.566
2.07E-40	0.605165	0.366	0.024	3.25E-36	5 METRNL	0.342
1.25E-38	1.422284	0.479	0.055	1.96E-34	5 PLAUR	0.424
1.41E-38	0.893225	0.479	0.052	2.21E-34	5 CECR1	0.427
1.78E-38	0.523733	0.268	0.01	2.80E-34	5 SNX10	0.258
3.17E-38	0.597773	0.31	0.016	4.99E-34	5 IRF8	0.294
2.04E-37	0.525964	0.254	0.009	3.22E-33	5 VNN2	0.245
3.21E-37	0.574657	0.282	0.013	5.05E-33	5 CHKA	0.269
5.27E-37	1.891641	0.986	0.687	8.29E-33	5 GPX1	0.299
6.58E-37	0.700751	0.366	0.028	1.03E-32	5 TNFSF13B	0.338
6.96E-37	1.087334	0.62	0.102	1.09E-32	5 GLIPR1	0.518
5.60E-36	0.847321	0.423	0.043	8.80E-32	5 LYN	0.38
4.40E-35	0.821387	0.366	0.03	6.92E-31	5 EMB	0.336
1.09E-34	0.628392	0.394	0.037	1.71E-30	5 ZNF385A	0.357
1.11E-34	0.536272	0.31	0.019	1.74E-30	5 CD300A	0.291
1.48E-34	0.511583	0.296	0.017	2.32E-30	5 PIK3R5	0.279
3.05E-34	1.076021	0.465	0.055	4.79E-30	5 TNF	0.41
4.25E-34	0.646231	0.408	0.04	6.69E-30	5 CMTM7	0.368
4.70E-34	0.508648	0.268	0.013	7.38E-30	5 HMHA1	0.255
5.43E-34	0.582694	0.282	0.016	8.53E-30	5 LINC00936	0.266
9.42E-34	1.195739	0.437	0.052	1.48E-29	5 RGS2	0.385
1.00E-33	1.720211	0.507	0.075	1.57E-29	5 STAB1	0.432
1.91E-33	1.765921	0.873	0.309	3.00E-29	5 HLA-DQB1	0.564
6.08E-33	1.168018	0.62	0.123	9.56E-29	5 FGL2	0.497
1.45E-32	2.025339	0.93	0.501	2.28E-28	5 HLA-DPB1	0.429
2.32E-32	0.528162	0.296	0.019	3.66E-28	5 NCKAP1L	0.277
3.93E-32	1.948128	0.93	0.538	6.17E-28	5 HLA-DPA1	0.392
1.60E-31	0.684686	0.338	0.03	2.52E-27	5 MERTK	0.308
1.66E-31	1.460179	0.944	0.526	2.61E-27	5 NPC2	0.418
1.85E-31	0.776335	0.493	0.07	2.91E-27	5 HACD4	0.423

3.01E-31	0.908943	0.563	0.094	4.74E-27	5 GPSM3	0.469
8.13E-31	0.507861	0.31	0.024	1.28E-26	5 PAK1	0.286
3.53E-30	0.740242	0.423	0.048	5.55E-26	5 CD53	0.375
3.84E-30	0.947326	0.563	0.099	6.04E-26	5 CPM	0.464
5.05E-30	0.992158	0.592	0.118	7.95E-26	5 HCLS1	0.474
8.35E-30	1.02632	0.775	0.215	1.31E-25	5 CNPY3	0.56
2.23E-29	0.525692	0.296	0.022	3.51E-25	5 AOA4	0.274
2.48E-29	0.738088	0.465	0.064	3.90E-25	5 LCP2	0.401
3.27E-29	1.150732	1	0.981	5.14E-25	5 FTH1	0.019
8.36E-29	1.275517	0.944	0.335	1.31E-24	5 S100A4	0.609
8.74E-29	0.518925	0.338	0.032	1.37E-24	5 DOCK8	0.306
1.34E-28	0.783731	0.577	0.112	2.11E-24	5 TNFRSF1B	0.465
3.29E-28	0.607128	0.338	0.033	5.17E-24	5 CD48	0.305
4.60E-28	1.170096	0.479	0.078	7.24E-24	5 NR4A2	0.401
1.80E-27	0.625803	0.296	0.026	2.82E-23	5 CEBPB	0.27
3.74E-27	0.566661	0.31	0.028	5.89E-23	5 PLEK	0.282
3.94E-27	1.450483	0.634	0.172	6.20E-23	5 NAMPT	0.462
5.70E-27	0.730115	0.451	0.069	8.97E-23	5 RGS19	0.382
6.92E-27	0.56502	0.268	0.02	1.09E-22	5 ARHGAP9	0.248
7.23E-27	0.850205	0.493	0.086	1.14E-22	5 FAM49B	0.407
9.77E-27	1.54857	1	0.66	1.54E-22	5 CD74	0.34
9.86E-27	0.687526	0.408	0.057	1.55E-22	5 IER5	0.351
1.22E-26	0.966189	0.592	0.135	1.92E-22	5 LY96	0.457
1.32E-26	0.861957	0.451	0.07	2.07E-22	5 PTPN6	0.381
1.55E-26	0.540982	0.282	0.023	2.44E-22	5 ARHGAP30	0.259
1.82E-26	1.597291	0.704	0.232	2.86E-22	5 IER3	0.472
2.46E-26	0.565548	0.282	0.024	3.87E-22	5 DAPK1	0.258
2.60E-26	0.911174	0.662	0.163	4.09E-22	5 CELF2	0.499
2.66E-26	0.825821	0.394	0.053	4.19E-22	5 ACSL1	0.341
5.27E-26	0.608219	0.296	0.028	8.29E-22	5 STX11	0.268
9.66E-26	0.877886	0.972	0.898	1.52E-21	5 OAZ1	0.074
1.17E-25	0.602047	0.338	0.038	1.83E-21	5 SH3TC1	0.3
1.28E-25	1.304069	0.817	0.316	2.02E-21	5 HLA-DMA	0.501
2.11E-25	0.797938	0.507	0.097	3.32E-21	5 HLA-DMB	0.41
3.50E-25	0.743431	0.352	0.043	5.51E-21	5 NAIP	0.309
5.76E-25	0.641058	0.479	0.084	9.06E-21	5 CSK	0.395
8.53E-25	0.967528	0.662	0.174	1.34E-20	5 CD44	0.488
1.06E-24	1.441137	0.845	0.369	1.67E-20	5 DUSP1	0.476
1.07E-24	0.868752	0.592	0.128	1.68E-20	5 CTSC	0.464
1.19E-24	0.747186	0.493	0.086	1.87E-20	5 LIMD2	0.407
2.21E-24	1.062828	0.986	0.515	3.47E-20	5 SRGN	0.471
3.20E-24	1.371941	0.859	0.448	5.03E-20	5 CTSB	0.411
4.69E-24	0.657528	1	0.992	7.37E-20	5 TMSB4X	0.008
5.70E-24	0.614212	0.282	0.028	8.97E-20	5 DOCK11	0.254
1.84E-23	1.535103	0.62	0.19	2.90E-19	5 NFKBIZ	0.43
2.97E-23	0.67163	0.479	0.092	4.67E-19	5 RAB31	0.387
3.06E-23	0.866592	0.352	0.045	4.82E-19	5 ALOX5AP	0.307
3.60E-23	0.551045	0.282	0.029	5.65E-19	5 NABP1	0.253
5.35E-23	1.026568	0.704	0.242	8.41E-19	5 RNF130	0.462
5.52E-23	1.143816	0.944	0.579	8.69E-19	5 NEAT1	0.365
5.73E-23	1.103369	0.31	0.038	9.01E-19	5 SLCO2B1	0.272
6.64E-23	0.882638	0.437	0.079	1.04E-18	5 NUP214	0.358
1.18E-22	1.324673	0.69	0.236	1.85E-18	5 EGR1	0.454
1.36E-22	0.576761	0.324	0.041	2.15E-18	5 MPP1	0.283
1.37E-22	1.497727	0.93	0.556	2.15E-18	5 HLA-DRB1	0.374
1.75E-22	0.5699	0.324	0.041	2.75E-18	5 SPINT2	0.283
1.87E-22	1.090362	0.704	0.241	2.94E-18	5 RBPJ	0.463
3.46E-22	0.922923	0.507	0.112	5.45E-18	5 FRMD4B	0.395

3.80E-22	0.703132	0.352	0.051	5.97E-18	5 BIRC3	0.301
8.20E-22	0.509688	0.254	0.024	1.29E-17	5 MYO1F	0.23
3.17E-21	0.757874	0.549	0.135	4.98E-17	5 RNF149	0.414
3.39E-21	1.332515	0.69	0.24	5.33E-17	5 SOD2	0.45
4.63E-21	0.885643	0.718	0.268	7.28E-17	5 RHOG	0.45
6.17E-21	0.741211	0.986	0.82	9.70E-17	5 GABARAP	0.166
1.64E-20	0.611903	1	0.983	2.58E-16	5 RPL28	0.017
1.88E-20	0.955552	0.69	0.228	2.96E-16	5 MFSD1	0.462
1.96E-20	0.839684	1	0.983	3.09E-16	5 ACTB	0.017
2.39E-20	0.942801	0.972	0.654	3.76E-16	5 PSAP	0.318
2.46E-20	0.907472	0.915	0.628	3.87E-16	5 ARPC3	0.287
3.31E-20	0.549267	1	0.992	5.20E-16	5 RPL39	0.008
4.56E-20	0.639967	0.366	0.06	7.17E-16	5 TRMT1	0.306
1.03E-19	0.712264	0.437	0.092	1.63E-15	5 REL	0.345
1.33E-19	0.892759	0.69	0.254	2.08E-15	5 SAMHD1	0.436
1.42E-19	0.581241	0.437	0.089	2.23E-15	5 TYMP	0.348
2.24E-19	0.613548	0.366	0.064	3.52E-15	5 MAN2B1	0.302
5.75E-19	0.801036	0.549	0.157	9.04E-15	5 ATP2B1	0.392
5.86E-19	0.98441	0.887	0.47	9.22E-15	5 FCGRT	0.417
7.93E-19	0.822404	0.958	0.838	1.25E-14	5 SH3BGL3	0.12
8.95E-19	0.548606	1	0.974	1.41E-14	5 RPL12	0.026
9.70E-19	1.026283	0.676	0.253	1.53E-14	5 NR4A1	0.423
9.80E-19	0.938531	0.606	0.2	1.54E-14	5 ZEB2	0.406
2.00E-18	1.126322	0.507	0.139	3.14E-14	5 ATF3	0.368
3.65E-18	0.544041	0.958	0.944	5.74E-14	5 ATP5E	0.014
4.24E-18	0.900174	0.873	0.444	6.67E-14	5 HERPUD1	0.429
5.68E-18	0.886071	0.887	0.524	8.93E-14	5 GLUL	0.363
6.17E-18	0.794158	0.873	0.521	9.70E-14	5 SERP1	0.352
8.29E-18	0.574146	0.282	0.04	1.30E-13	5 ADAP2	0.242
9.57E-18	0.889238	0.634	0.225	1.50E-13	5 BLVRB	0.409
9.77E-18	0.703056	0.38	0.073	1.54E-13	5 IQGAP2	0.307
2.31E-17	0.783312	0.662	0.243	3.63E-13	5 NCOA4	0.419
2.44E-17	0.790744	0.563	0.173	3.84E-13	5 CYBA	0.39
2.74E-17	0.622106	0.465	0.115	4.31E-13	5 ATP6V1B2	0.35
3.82E-17	0.933813	0.901	0.666	6.01E-13	5 PABPC1	0.235
4.88E-17	0.839729	0.563	0.188	7.67E-13	5 AP1S2	0.375
5.63E-17	0.873204	0.479	0.125	8.85E-13	5 RNF144B	0.354
6.32E-17	0.598031	0.352	0.068	9.95E-13	5 TNFAIP2	0.284
6.94E-17	0.705428	1	0.89	1.09E-12	5 PFN1	0.11
7.41E-17	1.044253	0.887	0.577	1.17E-12	5 FOS	0.31
8.29E-17	1.151824	0.775	0.371	1.30E-12	5 FOSB	0.404
8.73E-17	0.738372	0.69	0.252	1.37E-12	5 GMFG	0.438
2.07E-16	0.738998	0.803	0.368	3.25E-12	5 FKBP5	0.435
2.30E-16	0.766455	0.423	0.101	3.62E-12	5 OGFRL1	0.322
2.72E-16	0.56852	0.408	0.092	4.27E-12	5 CCDC88A	0.316
3.14E-16	1.310719	0.873	0.504	4.93E-12	5 HLA-DRB5	0.369
4.00E-16	0.778297	0.465	0.127	6.30E-12	5 MTSS1	0.338
5.71E-16	0.835837	0.845	0.463	8.97E-12	5 GRN	0.382
8.90E-16	0.558462	0.986	0.915	1.40E-11	5 RPS9	0.071
9.04E-16	0.751806	0.718	0.299	1.42E-11	5 PNRC1	0.419
9.33E-16	0.681145	0.394	0.091	1.47E-11	5 CAB39	0.303
9.46E-16	0.890051	0.831	0.449	1.49E-11	5 TSPO	0.382
1.06E-15	0.831839	0.718	0.302	1.67E-11	5 KCTD12	0.416
1.33E-15	0.995739	0.859	0.704	2.09E-11	5 NFKBIA	0.155
1.33E-15	0.768193	0.845	0.518	2.09E-11	5 ARPC1B	0.327
1.42E-15	1.167803	0.394	0.102	2.23E-11	5 MAF	0.292
1.84E-15	0.59123	0.324	0.064	2.89E-11	5 GAA	0.26
2.36E-15	1.225185	0.704	0.345	3.70E-11	5 PPP1R15A	0.359

3.54E-15	0.503997	1	0.976	5.57E-11	5 RPS24	0.024
3.90E-15	0.725227	0.93	0.563	6.13E-11	5 ARPC5	0.367
4.01E-15	0.620581	0.437	0.112	6.30E-11	5 STK17B	0.325
4.18E-15	0.671337	0.535	0.17	6.58E-11	5 CD302	0.365
5.16E-15	0.949419	0.451	0.123	8.12E-11	5 CD52	0.328
1.83E-14	1.182061	0.592	0.247	2.87E-10	5 DAB2	0.345
1.86E-14	0.838653	0.648	0.272	2.93E-10	5 ZFAND5	0.376
2.05E-14	0.636705	0.324	0.067	3.22E-10	5 PTPRE	0.257
3.76E-14	1.128375	0.775	0.408	5.92E-10	5 CTSD	0.367
4.33E-14	0.514938	0.268	0.046	6.81E-10	5 UBXN11	0.222
6.31E-14	1.519316	0.254	0.043	9.93E-10	5 AREG	0.211
7.90E-14	0.787408	0.62	0.256	1.24E-09	5 NUDT16	0.364
1.73E-13	0.615809	0.493	0.157	2.71E-09	5 LGALS9	0.336
3.40E-13	0.707636	0.761	0.445	5.35E-09	5 AP2S1	0.316
8.33E-13	0.51065	0.437	0.128	1.31E-08	5 VMA21	0.309
9.56E-13	0.61842	0.338	0.083	1.50E-08	5 PGD	0.255
9.99E-13	0.763712	0.732	0.41	1.57E-08	5 ATP6V0B	0.322
1.26E-12	0.656391	0.479	0.162	1.98E-08	5 AHR	0.317
1.64E-12	0.685547	0.873	0.591	2.59E-08	5 ATP6V0C	0.282
2.54E-12	0.548181	0.366	0.099	3.99E-08	5 KDM6B	0.267
6.00E-12	0.54957	0.507	0.173	9.44E-08	5 DPYD	0.334
6.30E-12	0.69831	0.563	0.232	9.91E-08	5 TPP1	0.331
6.72E-12	0.735501	0.577	0.242	1.06E-07	5 FAM96A	0.335
7.23E-12	1.130893	0.535	0.206	1.14E-07	5 CXCL2	0.329
8.31E-12	0.656245	0.408	0.123	1.31E-07	5 CHMP1B	0.285
1.56E-11	0.58044	0.901	0.703	2.46E-07	5 RPL36A	0.198
1.86E-11	0.651799	0.535	0.2	2.93E-07	5 GRINA	0.335
2.16E-11	0.649361	0.817	0.498	3.40E-07	5 TPM3	0.319
2.79E-11	0.857753	0.38	0.12	4.38E-07	5 NINJ1	0.26
4.14E-11	0.842	0.296	0.074	6.50E-07	5 ABHD5	0.222
5.08E-11	0.620202	0.563	0.233	7.99E-07	5 CEBPD	0.33
6.31E-11	0.660225	0.451	0.159	9.92E-07	5 CKLF	0.292
6.56E-11	0.588232	0.521	0.197	1.03E-06	5 SERPINB1	0.324
6.59E-11	0.709315	0.761	0.467	1.04E-06	5 ZFAS1	0.294
8.78E-11	0.738914	0.366	0.115	1.38E-06	5 SESN1	0.251
9.18E-11	0.535045	0.38	0.116	1.44E-06	5 EIF4EBP1	0.264
1.08E-10	0.641775	0.507	0.213	1.70E-06	5 M6PR	0.294
1.32E-10	1.006142	0.521	0.239	2.08E-06	5 LIPA	0.282
1.33E-10	0.64475	0.521	0.211	2.09E-06	5 ZYX	0.31
1.33E-10	0.735538	0.634	0.335	2.10E-06	5 MCL1	0.299
1.48E-10	0.514811	0.38	0.116	2.32E-06	5 MAP3K8	0.264
1.61E-10	0.500262	0.366	0.106	2.53E-06	5 LYST	0.26
1.85E-10	0.568235	0.437	0.153	2.91E-06	5 HNMT	0.284
2.05E-10	0.753172	0.577	0.251	3.22E-06	5 TGFBI	0.326
2.06E-10	0.837457	0.521	0.231	3.24E-06	5 TKT	0.29
2.08E-10	0.656518	0.352	0.106	3.26E-06	5 INSIG1	0.246
2.57E-10	0.567369	0.394	0.132	4.04E-06	5 GCA	0.262
2.65E-10	0.690013	0.789	0.502	4.17E-06	5 RPS2	0.287
4.57E-10	0.680767	0.775	0.511	7.19E-06	5 YBX1	0.264
4.84E-10	0.652622	0.423	0.149	7.62E-06	5 CTSZ	0.274
6.72E-10	0.650133	0.479	0.184	1.06E-05	5 CD55	0.295
8.13E-10	0.549106	0.479	0.186	1.28E-05	5 CAPZA1	0.293
1.05E-09	0.504758	0.761	0.43	1.65E-05	5 CAP1	0.331
1.21E-09	0.542074	0.606	0.289	1.90E-05	5 MOB1A	0.317
1.38E-09	0.740681	0.296	0.083	2.18E-05	5 TMEM176F	0.213
1.49E-09	0.530461	0.479	0.189	2.34E-05	5 WIPF1	0.29
1.67E-09	0.549064	0.408	0.139	2.62E-05	5 IVNS1ABP	0.269
1.77E-09	0.521319	0.394	0.136	2.79E-05	5 SSH2	0.258

2.23E-09	1.254339	0.38	0.148	3.50E-05	5 LGMN	0.232
4.35E-09	0.63005	0.817	0.67	6.84E-05	5 ARPC2	0.147
4.66E-09	0.759505	0.62	0.357	7.33E-05	5 C10orf54	0.263
6.48E-09	0.504653	0.352	0.12	0.000102	5 PLEKHB2	0.232
6.52E-09	0.525979	0.507	0.217	0.000103	5 GRB2	0.29
1.19E-08	0.607555	0.394	0.154	0.000187	5 RILPL2	0.24
1.29E-08	0.682164	0.803	0.585	0.000203	5 KLF6	0.218
1.72E-08	0.6013	0.352	0.123	0.00027	5 EIF4A3	0.229
1.99E-08	0.529084	0.69	0.406	0.000312	5 PRR13	0.284
2.86E-08	0.519163	0.676	0.388	0.00045	5 ACTR3	0.288
7.49E-08	0.54459	0.324	0.112	0.001177	5 RASSF4	0.212
9.79E-08	1.091983	0.465	0.237	0.00154	5 SLC40A1	0.228
2.53E-07	0.859285	0.338	0.132	0.003977	5 MAN1A1	0.206
5.10E-07	0.505668	0.606	0.34	0.008016	5 CMTM6	0.266
5.31E-07	0.566747	0.451	0.216	0.008357	5 RB1	0.235
6.34E-07	0.507805	0.38	0.16	0.009976	5 KIAA1033	0.22
6.63E-07	0.555721	0.972	0.866	0.010422	5 S100A6	0.106
3.28E-188	2.634181	0.891	0.005	5.16E-184	6 ACKR1	0.886
3.31E-51	1.459836	0.652	0.054	5.20E-47	6 PLAT	0.598
5.76E-50	1.950079	0.913	0.138	9.06E-46	6 PLVAP	0.775
6.31E-47	0.880012	0.348	0.011	9.93E-43	6 ADGRG6	0.337
6.18E-45	1.039393	0.478	0.028	9.71E-41	6 SELP	0.45
1.22E-43	0.791112	0.348	0.013	1.92E-39	6 LHX6	0.335
5.99E-42	0.748951	0.348	0.013	9.42E-38	6 CRTAC1	0.335
5.22E-39	1.307496	0.652	0.078	8.21E-35	6 SLCO2A1	0.574
1.73E-35	0.806287	0.348	0.018	2.73E-31	6 MPZL2	0.33
4.87E-28	0.919517	0.326	0.023	7.66E-24	6 CCL14	0.303
9.62E-28	1.481952	0.978	0.39	1.51E-23	6 RAMP3	0.588
1.02E-27	0.882135	0.413	0.04	1.60E-23	6 RASA4	0.373
3.62E-26	1.557939	0.87	0.297	5.69E-22	6 DUSP23	0.573
5.72E-26	0.97782	0.522	0.075	8.99E-22	6 TPO	0.447
1.17E-25	1.467112	0.891	0.274	1.84E-21	6 TGM2	0.617
1.99E-23	0.94475	0.543	0.089	3.14E-19	6 TFF3	0.454
6.94E-23	1.462034	0.87	0.297	1.09E-18	6 HYAL2	0.573
2.88E-20	1.093621	0.978	0.49	4.53E-16	6 PECAM1	0.488
3.69E-20	1.00815	0.761	0.217	5.81E-16	6 CXorf36	0.544
7.74E-20	1.322259	0.935	0.462	1.22E-15	6 IGFBP4	0.473
1.43E-19	1.188114	0.522	0.106	2.24E-15	6 FAM167B	0.416
1.13E-18	1.211296	0.935	0.434	1.78E-14	6 CALCRL	0.501
5.18E-18	1.201186	0.674	0.197	8.15E-14	6 THBD	0.477
1.71E-17	0.648606	0.391	0.06	2.68E-13	6 EPB41L3	0.331
1.74E-16	0.577758	0.283	0.033	2.74E-12	6 ITGB4	0.25
2.94E-16	0.660758	0.348	0.051	4.62E-12	6 PTPN5	0.297
3.76E-15	0.987983	0.891	0.475	5.91E-11	6 TGFBR2	0.416
3.81E-15	0.816658	0.609	0.171	6.00E-11	6 CREB3L1	0.438
8.89E-15	0.963074	0.848	0.372	1.40E-10	6 PRCP	0.476
2.16E-14	1.01199	0.587	0.173	3.39E-10	6 CDA	0.414
9.74E-14	0.943982	0.978	0.571	1.53E-09	6 MT1X	0.407
1.25E-13	0.797074	0.804	0.307	1.97E-09	6 SNCG	0.497
1.64E-13	0.788978	0.587	0.172	2.58E-09	6 NOSTRIN	0.415
2.88E-13	0.956637	0.587	0.176	4.53E-09	6 SEPN1	0.411
4.04E-13	0.607685	0.348	0.064	6.36E-09	6 SPNS2	0.284
4.46E-13	0.94982	0.652	0.216	7.01E-09	6 ISLR	0.436
5.55E-13	0.64679	0.261	0.037	8.73E-09	6 HAPLN3	0.224
8.19E-13	0.629046	0.978	0.932	1.29E-08	6 RPS6	0.046
8.85E-13	0.74602	0.457	0.113	1.39E-08	6 BCL3	0.344
1.09E-12	0.797215	0.543	0.164	1.72E-08	6 TSHZ2	0.379
1.25E-12	0.627097	0.304	0.051	1.97E-08	6 CYSLTR1	0.253

1.71E-12	0.789301	0.478	0.126	2.69E-08	6 APLNR	0.352
2.13E-12	0.74124	0.935	0.762	3.35E-08	6 FKBP1A	0.173
2.19E-12	0.842375	0.652	0.243	3.44E-08	6 ARL4A	0.409
2.26E-12	0.725967	0.587	0.187	3.56E-08	6 SULF2	0.4
2.31E-12	0.752713	0.696	0.249	3.63E-08	6 TM4SF18	0.447
3.15E-12	0.84392	0.5	0.142	4.95E-08	6 C10orf128	0.358
3.63E-12	0.790593	0.261	0.039	5.72E-08	6 CPXM2	0.222
4.59E-12	0.880029	0.978	0.503	7.22E-08	6 VWF	0.475
9.66E-12	0.73102	0.696	0.278	1.52E-07	6 MMRN2	0.418
1.10E-11	0.853317	0.804	0.363	1.73E-07	6 PTPRB	0.441
1.60E-11	0.673451	0.413	0.098	2.52E-07	6 VWA1	0.315
3.16E-11	0.775847	0.457	0.13	4.97E-07	6 EHD4	0.327
3.26E-11	0.620833	0.283	0.049	5.13E-07	6 FAM84B	0.234
3.65E-11	0.864342	0.87	0.512	5.74E-07	6 IL6ST	0.358
4.67E-11	0.756244	0.804	0.407	7.35E-07	6 LIMS2	0.397
5.74E-11	0.722068	0.674	0.282	9.03E-07	6 ELK3	0.392
7.06E-11	0.620429	0.413	0.103	1.11E-06	6 NUAK1	0.31
8.64E-11	0.775842	0.609	0.221	1.36E-06	6 ROBO4	0.388
9.07E-11	0.693367	0.783	0.346	1.43E-06	6 ADGRL4	0.437
1.23E-10	0.560901	0.913	0.489	1.93E-06	6 HLA-DRA	0.424
1.43E-10	0.7052	0.413	0.107	2.25E-06	6 TGFBR3	0.306
1.66E-10	0.83291	0.717	0.323	2.61E-06	6 NPDC1	0.394
4.20E-10	0.680677	0.522	0.168	6.61E-06	6 FLNB	0.354
5.58E-10	0.564266	0.413	0.11	8.78E-06	6 LYST	0.303
7.86E-10	0.50604	0.304	0.063	1.24E-05	6 BCAR1	0.241
9.60E-10	0.631728	1	0.669	1.51E-05	6 CD74	0.331
1.09E-09	0.715265	0.674	0.289	1.72E-05	6 IL33	0.385
1.33E-09	0.64305	0.543	0.187	2.09E-05	6 NAMPT	0.356
2.21E-09	0.772342	0.565	0.216	3.48E-05	6 PRSS23	0.349
2.51E-09	0.938802	0.652	0.297	3.95E-05	6 LIFR	0.355
3.23E-09	0.657486	0.5	0.166	5.08E-05	6 SEMA6A	0.334
4.28E-09	0.981854	0.761	0.394	6.73E-05	6 MT1M	0.367
6.26E-09	0.63842	0.522	0.187	9.84E-05	6 SHC1	0.335
7.33E-09	0.520761	0.435	0.134	0.000115	6 LRP5	0.301
8.78E-09	0.610353	0.435	0.137	0.000138	6 MGAT4A	0.298
8.85E-09	0.547174	0.5	0.177	0.000139	6 ERG	0.323
2.05E-08	0.502241	0.391	0.116	0.000322	6 ST6GAL1	0.275
2.26E-08	0.719351	0.457	0.159	0.000356	6 EPHB4	0.298
3.20E-08	0.839057	0.348	0.098	0.000503	6 TMEM176A	0.25
3.38E-08	0.504981	0.63	0.27	0.000531	6 PLEC	0.36
3.38E-08	0.579035	0.37	0.105	0.000531	6 ENTPD1	0.265
3.67E-08	0.545881	0.413	0.135	0.000577	6 CMIP	0.278
3.72E-08	0.758416	0.565	0.246	0.000586	6 MALL	0.319
4.84E-08	0.606269	0.565	0.236	0.000761	6 TRIOBP	0.329
6.14E-08	0.805854	0.826	0.55	0.000965	6 MT1E	0.276
6.31E-08	0.645039	0.913	0.679	0.000992	6 CD59	0.234
6.69E-08	0.501035	0.457	0.16	0.001052	6 HLA-DQA1	0.297
7.93E-08	0.676756	0.674	0.329	0.001247	6 HEG1	0.345
9.50E-08	0.555236	0.348	0.103	0.001493	6 TMEM255E	0.245
9.86E-08	0.581463	0.478	0.178	0.00155	6 PREX2	0.3
1.10E-07	0.552509	0.37	0.115	0.001735	6 EGLN1	0.255
1.11E-07	0.615623	0.565	0.245	0.001738	6 CPD	0.32
1.11E-07	0.656003	0.696	0.38	0.001751	6 TNFRSF1A	0.316
1.13E-07	0.547755	0.913	0.518	0.001775	6 ITM2A	0.395
1.63E-07	0.708904	0.63	0.321	0.002562	6 BMPR2	0.309
2.10E-07	0.509364	0.304	0.082	0.003297	6 TPD52L1	0.222
2.70E-07	0.701327	0.457	0.175	0.004253	6 PIEZO1	0.282
2.85E-07	0.71022	0.652	0.351	0.004479	6 ADAM15	0.301

2.99E-07	0.536554	0.978	0.865	0.004703	6 TXNIP	0.113
3.24E-07	0.878614	0.413	0.144	0.005089	6 STC1	0.269
3.75E-07	0.563417	0.609	0.284	0.00589	6 MARCKS	0.325
4.47E-07	0.708996	0.435	0.169	0.007023	6 MKNK2	0.266
1.17E-06	0.543596	0.261	0.069	0.018358	6 IKBKB	0.192
1.20E-06	0.759535	0.37	0.135	0.018909	6 IL1R1	0.235
1.96E-06	0.553783	0.696	0.402	0.030896	6 PEA15	0.294
2.51E-06	0.500716	0.348	0.119	0.039476	6 RAPH1	0.229
2.60E-06	0.727478	0.435	0.175	0.040839	6 TBCD	0.26
2.20E-166	2.102878	0.852	0.005	3.45E-162	7 NRG1	0.847
1.12E-157	1.34526	0.667	0	1.76E-153	7 PKHD1L1	0.667
3.10E-149	1.730852	0.667	0.001	4.87E-145	7 SLC6A4	0.666
9.38E-142	1.328436	0.667	0.002	1.48E-137	7 SMOC1	0.665
2.86E-127	1.56744	0.926	0.017	4.49E-123	7 BMX	0.909
2.54E-120	1.285304	0.63	0.004	3.99E-116	7 MUM1L1	0.626
2.50E-105	1.796795	0.63	0.007	3.93E-101	7 NPR3	0.623
3.35E-105	0.91535	0.444	0	5.28E-101	7 SFRP5	0.444
3.35E-105	0.719201	0.444	0	5.28E-101	7 PLXNA4	0.444
1.13E-92	1.067953	0.593	0.008	1.78E-88	7 BCO2	0.585
3.73E-90	1.763217	0.852	0.026	5.87E-86	7 SELP	0.826
1.16E-89	1.543924	0.704	0.015	1.83E-85	7 GDF7	0.689
1.02E-83	1.004677	0.444	0.003	1.60E-79	7 BMPER	0.441
9.61E-80	1.359052	0.593	0.011	1.51E-75	7 PCDH7	0.582
3.68E-79	0.657431	0.333	0	5.79E-75	7 RP11-767L	0.333
1.81E-76	2.494516	0.889	0.042	2.85E-72	7 EDN1	0.847
1.66E-70	0.915956	0.296	0	2.60E-66	7 SOST	0.296
1.87E-65	1.620733	0.815	0.041	2.94E-61	7 SCD5	0.774
1.07E-64	1.196649	0.556	0.014	1.68E-60	7 BMP6	0.542
1.42E-62	0.697388	0.296	0.001	2.23E-58	7 F5	0.295
1.62E-62	0.536935	0.296	0.001	2.55E-58	7 SLC26A7	0.295
3.36E-62	1.508136	0.704	0.029	5.28E-58	7 CLDN11	0.675
7.23E-62	0.612719	0.259	0	1.14E-57	7 VAT1L	0.259
7.23E-62	0.578243	0.259	0	1.14E-57	7 HHIP	0.259
1.81E-59	1.554916	0.444	0.009	2.85E-55	7 IL1RL1	0.435
1.12E-58	1.224839	0.741	0.036	1.77E-54	7 PTGS1	0.705
2.35E-54	0.537744	0.333	0.004	3.70E-50	7 DAPL1	0.329
4.23E-54	0.727374	0.37	0.006	6.65E-50	7 NR2F1	0.364
5.14E-54	0.908429	0.556	0.019	8.08E-50	7 MPZL2	0.537
1.59E-46	0.553596	0.296	0.004	2.50E-42	7 MOV10L1	0.292
1.09E-45	0.90355	0.519	0.021	1.72E-41	7 PLCXD3	0.498
1.08E-43	0.530395	0.333	0.007	1.70E-39	7 IRF6	0.326
8.00E-43	1.248541	0.667	0.044	1.26E-38	7 SPINT2	0.623
1.01E-42	0.91964	0.593	0.032	1.59E-38	7 ART4	0.561
1.63E-42	0.981186	0.444	0.016	2.56E-38	7 DNASE1L3	0.428
4.82E-41	1.44754	0.778	0.067	7.58E-37	7 CDH11	0.711
2.98E-37	0.851567	0.37	0.012	4.68E-33	7 RHOU	0.358
1.08E-35	1.519478	0.926	0.122	1.69E-31	7 LEPR	0.804
3.40E-35	1.159218	0.593	0.044	5.35E-31	7 FBLIM1	0.549
4.07E-35	1.024398	0.63	0.048	6.40E-31	7 FOXC1	0.582
8.11E-35	0.865721	0.333	0.01	1.28E-30	7 GDF6	0.323
8.60E-34	0.685978	0.407	0.018	1.35E-29	7 CRTAC1	0.389
1.56E-33	0.67959	0.444	0.023	2.46E-29	7 KRT8	0.421
2.29E-33	0.633162	0.519	0.032	3.61E-29	7 KRT18	0.487
2.06E-32	1.995705	0.963	0.153	3.24E-28	7 EFEMP1	0.81
1.40E-29	1.354086	0.852	0.116	2.21E-25	7 MGST1	0.736
2.43E-29	1.103477	0.815	0.11	3.82E-25	7 CDH13	0.705
8.40E-29	0.941012	0.481	0.034	1.32E-24	7 MMRN1	0.447
1.86E-28	1.470825	0.778	0.105	2.92E-24	7 BMP4	0.673

1.29E-27	0.598057	0.407	0.024	2.03E-23	7 RAB11FIP1	0.383
1.98E-26	0.736499	0.444	0.031	3.11E-22	7 CGNL1	0.413
3.10E-26	1.938139	1	0.227	4.87E-22	7 CLU	0.773
8.83E-26	0.942164	0.704	0.088	1.39E-21	7 STAB1	0.616
9.00E-25	0.658577	0.444	0.033	1.42E-20	7 SHISA3	0.411
1.26E-23	0.767378	0.593	0.066	1.97E-19	7 MAOA	0.527
2.04E-23	0.558848	0.333	0.019	3.21E-19	7 MAN1C1	0.314
2.49E-23	1.200993	0.889	0.153	3.91E-19	7 POSTN	0.736
4.48E-23	1.18879	0.741	0.11	7.05E-19	7 MATN2	0.631
6.80E-23	1.059831	0.444	0.038	1.07E-18	7 CP	0.406
8.64E-23	0.771545	0.407	0.031	1.36E-18	7 DAPK1	0.376
9.36E-23	1.83561	0.926	0.205	1.47E-18	7 CTGF	0.721
1.57E-22	0.632406	0.407	0.03	2.47E-18	7 KCNT2	0.377
3.67E-22	1.643252	0.889	0.208	5.77E-18	7 CRIM1	0.681
2.17E-21	0.961785	0.556	0.065	3.42E-17	7 TNFRSF21	0.491
1.23E-20	2.131778	0.852	0.197	1.93E-16	7 ELN	0.655
2.74E-20	0.856755	0.667	0.096	4.31E-16	7 LTC4S	0.571
4.97E-20	1.058369	0.63	0.095	7.81E-16	7 SNTB2	0.535
1.17E-19	1.912868	0.852	0.212	1.84E-15	7 CXCL2	0.64
2.06E-19	0.552366	0.444	0.044	3.24E-15	7 SLC25A29	0.4
2.34E-19	0.520977	0.407	0.037	3.69E-15	7 METRNL	0.37
3.34E-19	0.60927	0.444	0.045	5.26E-15	7 SEMA3F	0.399
2.51E-18	0.638502	0.333	0.026	3.95E-14	7 SLC16A12	0.307
2.51E-18	0.642236	0.333	0.026	3.95E-14	7 SELL	0.307
3.79E-18	1.080527	0.704	0.124	5.96E-14	7 PTGIS	0.58
6.41E-18	1.19332	0.778	0.167	1.01E-13	7 FLNB	0.611
1.47E-17	0.606578	0.37	0.034	2.31E-13	7 UCHL1	0.336
3.35E-17	0.848187	0.556	0.079	5.27E-13	7 IL4R	0.477
1.69E-16	1.037352	0.63	0.111	2.66E-12	7 HMCN1	0.519
3.76E-16	1.290547	0.667	0.137	5.91E-12	7 GJA1	0.53
5.17E-16	1.026192	0.556	0.094	8.14E-12	7 TXNRD1	0.462
5.61E-16	0.622382	0.37	0.038	8.82E-12	7 TMEM100	0.332
6.02E-16	0.615151	0.444	0.055	9.47E-12	7 ITGA10	0.389
6.12E-16	0.687277	0.444	0.054	9.63E-12	7 ACSM3	0.39
6.68E-16	1.098616	0.63	0.112	1.05E-11	7 AKR1C1	0.518
8.78E-16	1.11404	0.667	0.132	1.38E-11	7 IL1R1	0.535
9.51E-16	0.62105	0.556	0.085	1.50E-11	7 PXDC1	0.471
1.88E-15	0.617094	0.296	0.026	2.96E-11	7 GATA4	0.27
2.66E-15	0.583498	0.407	0.048	4.18E-11	7 MICAL2	0.359
2.71E-14	0.957781	0.704	0.157	4.25E-10	7 PLVAP	0.547
3.26E-14	1.205992	0.778	0.214	5.13E-10	7 INMT	0.564
7.19E-14	1.28392	0.963	0.595	1.13E-09	7 HSPG2	0.368
1.88E-13	1.355815	0.852	0.286	2.96E-09	7 TGM2	0.566
2.33E-13	0.732326	0.63	0.132	3.67E-09	7 ITGAV	0.498
3.92E-13	0.751942	0.407	0.057	6.17E-09	7 ANGPTL4	0.35
4.97E-13	1.388922	0.704	0.193	7.81E-09	7 CYR61	0.511
9.92E-13	0.554875	0.259	0.024	1.56E-08	7 IRX3	0.235
1.07E-12	0.889734	1	0.751	1.69E-08	7 POLR2L	0.249
2.52E-12	0.659386	0.519	0.093	3.97E-08	7 TSTD1	0.426
2.85E-12	0.830717	0.667	0.163	4.49E-08	7 SOCS3	0.504
2.95E-12	1.225159	0.963	0.46	4.64E-08	7 FN1	0.503
3.38E-12	0.585556	0.444	0.071	5.32E-08	7 SESN3	0.373
4.55E-12	0.627208	0.407	0.06	7.16E-08	7 COLEC12	0.347
5.29E-12	0.701342	0.519	0.101	8.32E-08	7 NDRG4	0.418
7.42E-12	1.44641	0.963	0.493	1.17E-07	7 SAT1	0.47
9.13E-12	0.624796	0.556	0.115	1.44E-07	7 ST3GAL1	0.441
9.69E-12	0.623665	1	0.973	1.52E-07	7 RPS21	0.027
1.07E-11	0.607603	0.63	0.14	1.68E-07	7 METTL7A	0.49

1.54E-11	0.917358	0.889	0.321	2.42E-07	7 LIMCH1	0.568
2.12E-11	0.969118	0.63	0.168	3.33E-07	7 RND3	0.462
2.55E-11	0.512146	0.333	0.044	4.01E-07	7 TNFRSF12A	0.289
2.97E-11	0.793897	0.667	0.181	4.67E-07	7 CTNNA1	0.486
2.99E-11	0.533082	0.37	0.055	4.70E-07	7 DIXDC1	0.315
6.53E-11	1.104692	0.667	0.197	1.03E-06	7 COLEC11	0.47
6.66E-11	0.745785	1	0.5	1.05E-06	7 ADIRF	0.5
7.86E-11	0.752849	0.481	0.096	1.24E-06	7 PTPN14	0.385
9.79E-11	0.72718	0.667	0.171	1.54E-06	7 DKK3	0.496
1.12E-10	0.588527	0.407	0.069	1.76E-06	7 PDE3A	0.338
1.31E-10	0.640524	1	0.987	2.06E-06	7 RPL36	0.013
1.79E-10	1.187069	0.519	0.12	2.81E-06	7 SERPINE1	0.399
2.17E-10	0.574363	0.407	0.072	3.41E-06	7 AGPS	0.335
2.70E-10	0.568688	0.37	0.06	4.25E-06	7 ACKR3	0.31
2.95E-10	0.73162	0.63	0.17	4.65E-06	7 NCOA7	0.46
3.14E-10	0.651814	0.519	0.11	4.94E-06	7 TGFB3	0.409
3.28E-10	1.26637	0.963	0.516	5.16E-06	7 IL6ST	0.447
3.50E-10	1.281797	0.593	0.17	5.51E-06	7 PROCR	0.423
4.70E-10	0.814802	0.889	0.36	7.40E-06	7 SLC38A2	0.529
6.85E-10	0.669694	0.444	0.092	1.08E-05	7 TLE1	0.352
1.49E-09	0.815733	0.963	0.51	2.34E-05	7 RPS2	0.453
1.53E-09	0.642136	0.556	0.136	2.41E-05	7 CMIP	0.42
1.79E-09	0.766197	0.778	0.269	2.82E-05	7 ATP1A1	0.509
1.93E-09	1.210151	0.556	0.152	3.04E-05	7 TMEM150C	0.404
2.08E-09	0.787182	0.296	0.044	3.27E-05	7 HS3ST1	0.252
2.08E-09	0.566665	0.556	0.132	3.27E-05	7 ECSCR.1	0.424
2.37E-09	0.688213	1	0.955	3.72E-05	7 RPLP0	0.045
3.26E-09	0.630531	1	0.935	5.13E-05	7 RPLP2	0.065
3.56E-09	0.791982	0.593	0.167	5.59E-05	7 ITGA5	0.426
3.99E-09	0.592331	1	0.99	6.27E-05	7 RPS12	0.01
4.93E-09	0.736838	0.556	0.151	7.76E-05	7 KIAA0355	0.405
6.51E-09	0.747437	0.519	0.124	0.000102	7 SRPX	0.395
6.80E-09	0.924288	0.778	0.28	0.000107	7 ECE1	0.498
9.65E-09	0.643601	0.407	0.085	0.000152	7 ZMAT3	0.322
1.23E-08	0.915255	1	0.98	0.000194	7 FTL	0.02
1.29E-08	0.696151	1	0.99	0.000203	7 TPT1	0.01
1.67E-08	0.629421	0.407	0.084	0.000262	7 AKR1C2	0.323
1.96E-08	0.598378	0.556	0.142	0.000308	7 EPN1	0.414
2.20E-08	0.632205	1	0.968	0.000346	7 RPL3	0.032
2.61E-08	0.636911	0.667	0.208	0.000411	7 FAM213A	0.459
3.48E-08	0.676475	0.815	0.332	0.000547	7 SERPINE2	0.483
3.93E-08	0.777122	1	0.869	0.000618	7 S100A6	0.131
5.57E-08	0.681528	0.519	0.148	0.000876	7 TMEM106C	0.371
7.65E-08	0.561234	0.519	0.133	0.001204	7 NEXN	0.386
1.01E-07	0.552827	1	0.977	0.001592	7 RPS18	0.023
1.13E-07	0.567515	0.556	0.16	0.001772	7 DHRS3	0.396
1.73E-07	0.671872	0.852	0.454	0.00272	7 NGFRAP1	0.398
1.99E-07	0.511824	0.519	0.143	0.003133	7 TMEM98	0.376
2.00E-07	0.766144	0.889	0.607	0.003146	7 RPL13A	0.282
2.46E-07	0.696349	0.926	0.538	0.003867	7 RPS17	0.388
2.52E-07	0.919887	0.963	0.512	0.003957	7 VWF	0.451
2.65E-07	0.60218	0.37	0.085	0.004163	7 TNFRSF10E	0.285
3.23E-07	0.804642	0.704	0.289	0.005081	7 ACTN1	0.415
5.65E-07	0.517989	0.444	0.119	0.008879	7 ST6GAL1	0.325
5.68E-07	0.68284	0.815	0.465	0.008938	7 TSPO	0.35
5.75E-07	0.514731	0.259	0.045	0.009049	7 SIK2	0.214
5.91E-07	0.527099	1	0.964	0.009301	7 RPL37	0.036
6.81E-07	0.78787	0.815	0.376	0.010709	7 NUPR1	0.439

6.93E-07	1.003087	0.667	0.336	0.010897	7 HEG1	0.331
9.50E-07	0.751019	0.741	0.324	0.014943	7 BMPR2	0.417
9.53E-07	0.767717	0.593	0.206	0.014993	7 STAT1	0.387
1.06E-06	0.548708	0.63	0.218	0.016693	7 LTBP3	0.412
1.11E-06	0.878094	0.593	0.221	0.017515	7 PRSS23	0.372
1.32E-06	0.747799	0.481	0.149	0.020787	7 RBP1	0.332
1.48E-06	0.539459	1	0.851	0.023285	7 RPS29	0.149
1.57E-06	0.578435	0.852	0.389	0.024642	7 LINC00657	0.463
1.61E-06	0.682326	0.778	0.391	0.025343	7 DUSP1	0.387