

Supplemental Table 9. Gene Expression Fold Change in CD8+ T cells of WT vs. RNL5 KO tumors

gene_name	p_val	avg_log2FC	pct.1	pct.2	p_val_adj	cluster	gene	pct.diff
Hbb-bs	8.4362E-121	5.083993559	0.997	0.462	2.6197E-116	WT	Hbb-bs	0.535
mt-Atp6	3.0121E-109	2.507671872	1	0.996	9.3536E-105	WT	mt-Atp6	0.004
mt-Atp8	1.1959E-107	4.139498292	0.976	0.756	3.7138E-103	WT	mt-Atp8	0.22
Hbb-bt	1.37539E-92	6.07777452	0.859	0.08	4.27099E-88	WT	Hbb-bt	0.779
Hba-a1	2.00877E-90	5.65962381	0.863	0.092	6.23783E-86	WT	Hba-a1	0.771
mt-Co2	3.49607E-87	1.757565581	1	0.996	1.08564E-82	WT	mt-Co2	0.004
mt-Co3	6.93616E-87	1.804684112	1	1	2.15389E-82	WT	mt-Co3	0
mt-Cytb	1.73651E-85	1.828159382	0.996	0.996	5.39239E-81	WT	mt-Cytb	0
mt-Nd4l	5.58901E-81	3.152673815	0.923	0.748	1.73556E-76	WT	mt-Nd4l	0.175
Hba-a2	3.56997E-77	5.592873547	0.8	0.122	1.10858E-72	WT	Hba-a2	0.678
mt-Nd5	2.02559E-72	2.515004592	0.938	0.887	6.29006E-68	WT	mt-Nd5	0.051
mt-Co1	2.95175E-72	1.208842918	1	1	9.16605E-68	WT	mt-Co1	0
mt-Nd4	4.44854E-51	1.020853094	0.993	0.992	1.3814E-46	WT	mt-Nd4	0.001
Ftl1	1.61365E-32	1.355346376	0.87	0.941	5.01086E-28	WT	Ftl1	-0.071
mt-Nd2	8.49848E-31	0.713435733	0.963	0.992	2.63903E-26	WT	mt-Nd2	-0.029
Gm26917	8.55318E-27	2.394149975	0.784	0.857	2.65602E-22	WT	Gm26917	-0.073
Fabp4	3.0312E-22	6.116369019	0.331	0.021	9.41279E-18	WT	Fabp4	0.31
Sparc	5.74066E-16	4.515541769	0.321	0.08	1.78265E-11	WT	Sparc	0.241
S100a8	4.06514E-15	8.599426145	0.216	0	1.26235E-10	WT	S100a8	0.216
S100a9	5.09003E-15	8.340388813	0.221	0.004	1.58061E-10	WT	S100a9	0.217
Dapk3	1.08603E-12	0.754159724	0.125	0.357	3.37246E-08	WT	Dapk3	-0.232
Alas2	4.14272E-12	4.626384136	0.202	0.017	1.28644E-07	WT	Alas2	0.185
Bcl2	9.00779E-12	0.747545092	0.206	0.508	2.79719E-07	WT	Bcl2	-0.302
Rbm7	4.38286E-11	0.6937263	0.118	0.324	1.36101E-06	WT	Rbm7	-0.206
Dct	1.26374E-10	3.469348725	0.322	0.151	3.9243E-06	WT	Dct	0.171
Atp11b	2.92697E-10	0.869001836	0.227	0.534	9.08913E-06	WT	Atp11b	-0.307
Kmt2c	3.52762E-10	0.741911039	0.091	0.261	1.09543E-05	WT	Kmt2c	-0.17
Mosmo	4.73163E-10	0.719335879	0.078	0.231	1.46931E-05	WT	Mosmo	-0.153
Pnrc2	1.00812E-09	0.78892836	0.062	0.197	3.1305E-05	WT	Pnrc2	-0.135
Cndp2	1.64355E-09	0.730953705	0.112	0.294	5.10372E-05	WT	Cndp2	-0.182
Cyb5r3	2.84543E-09	0.898085674	0.119	0.307	8.83591E-05	WT	Cyb5r3	-0.188
Alkbh6	2.93631E-09	0.744516453	0.079	0.227	9.11813E-05	WT	Alkbh6	-0.148
Apoe	3.59882E-09	2.273718671	0.454	0.366	0.000111754	WT	Apoe	0.088
Terf1	3.6455E-09	0.738295766	0.088	0.244	0.000113204	WT	Terf1	-0.156
Tmem106b	7.63221E-09	1.101322194	0.131	0.324	0.000237003	WT	Tmem106b	-0.193
Yipf6	8.39026E-09	0.900204602	0.082	0.227	0.000260543	WT	Yipf6	-0.145
H2afj	1.03478E-08	1.048364977	0.675	0.861	0.000321329	WT	H2afj	-0.186
Guf1	1.03578E-08	0.76231162	0.057	0.176	0.000321642	WT	Guf1	-0.119
Tpm1	1.09386E-08	0.762467088	0.1	0.261	0.000339677	WT	Tpm1	-0.161
Gimap6	1.38966E-08	0.70569541	0.264	0.576	0.000431532	WT	Gimap6	-0.312
Snca	1.51103E-08	5.105436139	0.13	0.004	0.000469219	WT	Snca	0.126
Kctd2	1.97875E-08	0.778747406	0.056	0.172	0.00061446	WT	Kctd2	-0.116
Tubgcp3	2.4406E-08	0.823303233	0.062	0.185	0.000757881	WT	Tubgcp3	-0.123
Mtx1	2.90318E-08	0.702527208	0.107	0.269	0.000901524	WT	Mtx1	-0.162
Mtif3	3.9153E-08	0.760732055	0.027	0.109	0.001215818	WT	Mtif3	-0.082
Hvcn1	3.98462E-08	0.700746928	0.06	0.176	0.001237343	WT	Hvcn1	-0.116
Dexi	4.20004E-08	0.733680679	0.035	0.126	0.001304239	WT	Dexi	-0.091
Lonp1	4.62435E-08	0.740912667	0.113	0.277	0.001436001	WT	Lonp1	-0.164
Pcyt2	6.85853E-08	0.725977565	0.071	0.197	0.002129778	WT	Pcyt2	-0.126

Fbxl5	7.602E-08	0.778786573	0.103	0.256	0.002360649	WT	Fbxl5	-0.153
Grina	8.90945E-08	0.703801051	0.252	0.538	0.00276665	WT	Grina	-0.286
Mt1	1.05249E-07	1.548424619	0.606	0.63	0.003268298	WT	Mt1	-0.024
Cfl2	1.07596E-07	0.850967364	0.063	0.181	0.003341178	WT	Cfl2	-0.118
Pias4	1.15156E-07	0.76996605	0.06	0.172	0.003575938	WT	Pias4	-0.112
Cdkn2d	1.21211E-07	0.786660782	0.125	0.294	0.003763963	WT	Cdkn2d	-0.169
Gmeb1	1.22835E-07	0.857965758	0.051	0.155	0.003814404	WT	Gmeb1	-0.104
Ube2e3	1.50524E-07	0.813681414	0.08	0.21	0.004674215	WT	Ube2e3	-0.13
Acta2	1.56441E-07	5.921891376	0.113	0.004	0.004857963	WT	Acta2	0.109
Amn1	1.73051E-07	0.694193976	0.079	0.206	0.005373768	WT	Amn1	-0.127
Cyb5a	1.87628E-07	0.72606634	0.271	0.567	0.005826397	WT	Cyb5a	-0.296
Ulk3	1.94308E-07	0.718728763	0.018	0.084	0.006033835	WT	Ulk3	-0.066
Eif2b2	3.21664E-07	0.89701291	0.143	0.324	0.00998864	WT	Eif2b2	-0.181
Fkbp5	3.41217E-07	0.861262547	0.11	0.261	0.010595826	WT	Fkbp5	-0.151
Aspscr1	3.4863E-07	0.966546329	0.085	0.214	0.010826	WT	Aspscr1	-0.129
Akr1b10	3.62978E-07	0.701030051	0.04	0.13	0.011271557	WT	Akr1b10	-0.09
Smg9	3.97887E-07	0.730046015	0.062	0.172	0.012355585	WT	Smg9	-0.11
Slc25a39	4.69951E-07	0.988607207	0.132	0.303	0.014593397	WT	Slc25a39	-0.171
Mrpl1	4.71544E-07	0.743734135	0.067	0.181	0.01464285	WT	Mrpl1	-0.114
Al837181	6.95382E-07	0.717189973	0.055	0.155	0.021593705	WT	Al837181	-0.1
Pja2	7.87172E-07	0.802963681	0.044	0.134	0.024444048	WT	Pja2	-0.09
Tmem192	7.9013E-07	0.830034311	0.138	0.311	0.024535906	WT	Tmem192	-0.173
Rlf	8.10631E-07	0.867092046	0.138	0.307	0.025172522	WT	Rlf	-0.169
Tigd2	8.5808E-07	0.733427575	0.115	0.265	0.026645945	WT	Tigd2	-0.15
Ddit3	8.74621E-07	0.930195582	0.114	0.265	0.027159617	WT	Ddit3	-0.151
BC005561	9.97848E-07	0.794858129	0.069	0.181	0.030986178	WT	BC005561	-0.112
C1qb	1.13312E-06	3.583594183	0.21	0.088	0.035186644	WT	C1qb	0.122
Rhoc	1.19086E-06	0.739081792	0.081	0.202	0.036979775	WT	Rhoc	-0.121
Slc25a1	1.22517E-06	0.941763231	0.067	0.176	0.038045168	WT	Slc25a1	-0.109
Klf7	1.26053E-06	0.697338036	0.063	0.168	0.039143262	WT	Klf7	-0.105
Spsb3	1.28937E-06	0.933065302	0.09	0.218	0.040038786	WT	Spsb3	-0.128
Sap30bp	1.39745E-06	0.755598986	0.087	0.21	0.043395149	WT	Sap30bp	-0.123
Fmc1	1.42955E-06	0.734638441	0.116	0.265	0.044391916	WT	Fmc1	-0.149
Gng11	1.73546E-06	4.87467691	0.124	0.021	0.05389138	WT	Gng11	0.103
Nosip	1.83019E-06	1.02040972	0.112	0.256	0.056832791	WT	Nosip	-0.144
Ipo11	1.95192E-06	0.87666296	0.046	0.134	0.060612953	WT	Ipo11	-0.088
Dgcr6	2.136E-06	0.868406764	0.053	0.147	0.066329281	WT	Dgcr6	-0.094
Zfp593	2.41719E-06	0.909906023	0.169	0.361	0.07506113	WT	Zfp593	-0.192
Ncoa4	2.46738E-06	0.919256567	0.086	0.206	0.07661943	WT	Ncoa4	-0.12
Igfbp3	2.5911E-06	5.70208757	0.087	0	0.080461524	WT	Igfbp3	0.087
Gm9493	2.60529E-06	0.748669044	0.061	0.16	0.080902123	WT	Gm9493	-0.099
Cnep1r1	2.67209E-06	0.960817118	0.074	0.185	0.082976499	WT	Cnep1r1	-0.111
Spout1	2.91451E-06	0.804203685	0.04	0.122	0.090504149	WT	Spout1	-0.082
Laptm4a	3.11991E-06	0.860860546	0.181	0.374	0.096882474	WT	Laptm4a	-0.193
Pop7	3.57619E-06	0.823903807	0.119	0.265	0.11105155	WT	Pop7	-0.146
Sos1	3.64396E-06	0.836917629	0.037	0.113	0.113156044	WT	Sos1	-0.076
Tmem19	3.79326E-06	0.700498006	0.052	0.143	0.117792123	WT	Tmem19	-0.091
Nfe2l2	3.81768E-06	0.711016302	0.052	0.143	0.118550274	WT	Nfe2l2	-0.091
Ankrd54	4.16385E-06	0.953435948	0.057	0.151	0.129299958	WT	Ankrd54	-0.094
Mrpl22	4.22142E-06	0.697196226	0.101	0.231	0.131087616	WT	Mrpl22	-0.13
Clpp	4.55245E-06	0.865198532	0.095	0.218	0.141367202	WT	Clpp	-0.123

Dnase2a	6.12374E-06	0.752670709	0.025	0.088	0.190160568	WT	Dnase2a	-0.063
Hist1h4c	6.50016E-06	0.852397442	0.036	0.109	0.201849362	WT	Hist1h4c	-0.073
Ramp1	6.58341E-06	0.766767976	0.115	0.252	0.204434616	WT	Ramp1	-0.137
Tfpt	6.66525E-06	0.716025178	0.065	0.164	0.206975987	WT	Tfpt	-0.099
Grpel2	6.80353E-06	0.943943692	0.042	0.122	0.211270063	WT	Grpel2	-0.08
Mkrn1	6.84589E-06	1.140672652	0.347	0.71	0.21258529	WT	Mkrn1	-0.363
Spg20	6.99189E-06	0.783277073	0.042	0.122	0.217119233	WT	Spg20	-0.08
Vars2	7.38702E-06	0.79075947	0.034	0.105	0.229389175	WT	Vars2	-0.071
Ptgds	7.72039E-06	2.692997438	0.185	0.076	0.239741178	WT	Ptgds	0.109
Tmem222	8.60739E-06	0.993891796	0.125	0.269	0.267285159	WT	Tmem222	-0.144
Zbtb43	8.84112E-06	0.694059051	0.038	0.113	0.274543407	WT	Zbtb43	-0.075
Urod	9.37673E-06	0.837058463	0.094	0.214	0.291175518	WT	Urod	-0.12
Ifi209	9.48689E-06	0.86809807	0.03	0.097	0.294596491	WT	Ifi209	-0.067
Smyd2	1.02738E-05	0.953975785	0.088	0.202	0.319033405	WT	Smyd2	-0.114
Ap3m2	1.12118E-05	0.829621111	0.043	0.122	0.348158754	WT	Ap3m2	-0.079
Bgn	1.22052E-05	4.069238517	0.098	0.013	0.379006871	WT	Bgn	0.085
Retnlg	1.32912E-05	6.720413326	0.075	0	0.412731148	WT	Retnlg	0.075
Tyrobp	1.43668E-05	2.44519216	0.179	0.071	0.446133645	WT	Tyrobp	0.108
Acp5	1.53846E-05	0.786490851	0.121	0.256	0.477738678	WT	Acp5	-0.135
Chchd4	1.60444E-05	0.818388328	0.056	0.143	0.498226718	WT	Chchd4	-0.087
Arl3	1.61011E-05	0.705372751	0.067	0.164	0.499987722	WT	Arl3	-0.097
Mrpl30	1.6213E-05	0.709928331	0.292	0.58	0.503461319	WT	Mrpl30	-0.288
Tpd52	1.71569E-05	0.959451698	0.07	0.168	0.532773363	WT	Tpd52	-0.098
Enkd1	1.81262E-05	0.766906816	0.036	0.105	0.562871886	WT	Enkd1	-0.069
Cbr1	1.86751E-05	0.740636086	0.027	0.088	0.579916965	WT	Cbr1	-0.061
Polr2i	1.88837E-05	0.922238463	0.182	0.366	0.586394672	WT	Polr2i	-0.184
1810058I24Ril	2.13439E-05	0.769253777	0.322	0.647	0.662792321	WT	1810058I24Ril	-0.325
Pole3	2.14911E-05	0.759154307	0.128	0.269	0.667361721	WT	Pole3	-0.141
Asb8	2.22703E-05	0.721405783	0.052	0.134	0.691558754	WT	Asb8	-0.082
Galt	2.24342E-05	0.786881991	0.04	0.113	0.696648047	WT	Galt	-0.073
Col4a1	2.25108E-05	4.60439364	0.1	0.017	0.699028786	WT	Col4a1	0.083
Hagh	2.31664E-05	0.944814601	0.097	0.214	0.719385361	WT	Hagh	-0.117
Zkscan1	2.32457E-05	0.806136758	0.021	0.076	0.721848341	WT	Zkscan1	-0.055
Zfp422	2.39266E-05	0.757779811	0.038	0.109	0.742992867	WT	Zfp422	-0.071
Fam160b2	2.41451E-05	0.826945451	0.032	0.097	0.749776539	WT	Fam160b2	-0.065
Insrr	2.46609E-05	0.935278173	0.019	0.071	0.765793945	WT	Insrr	-0.052
C1qa	2.47138E-05	3.454961974	0.156	0.059	0.767436357	WT	C1qa	0.097
Nr2c2ap	2.6595E-05	0.979555752	0.084	0.189	0.825853829	WT	Nr2c2ap	-0.105
Slamf6	2.67311E-05	0.799296525	0.067	0.16	0.830080298	WT	Slamf6	-0.093
Dnajc4	2.86266E-05	0.745795463	0.043	0.118	0.888941819	WT	Dnajc4	-0.075
Sit1	3.05362E-05	0.727007156	0.048	0.126	0.948240076	WT	Sit1	-0.078
Gpihbp1	3.08097E-05	5.251863219	0.077	0.004	0.956732636	WT	Gpihbp1	0.073
Zfp275	3.14623E-05	0.90554691	0.028	0.088	0.976999043	WT	Zfp275	-0.06
Patz1	3.23304E-05	0.806387296	0.041	0.113	1	WT	Patz1	-0.072
Smim20	3.28303E-05	0.761776542	0.108	0.227	1	WT	Smim20	-0.119
Bcat2	3.34654E-05	0.985482135	0.053	0.134	1	WT	Bcat2	-0.081
Atr	3.70788E-05	0.817353038	0.119	0.248	1	WT	Atr	-0.129
Eogt	3.88131E-05	1.063731849	0.033	0.097	1	WT	Eogt	-0.064
St6galnac3	4.09969E-05	0.978453472	0.063	0.151	1	WT	St6galnac3	-0.088
Nt5c2	4.11975E-05	0.825230893	0.044	0.118	1	WT	Nt5c2	-0.074
Rpap3	4.27866E-05	0.871302415	0.059	0.143	1	WT	Rpap3	-0.084

Grn	4.39051E-05	1.112095557	0.169	0.336	1	WT	Grn	-0.167
Phf19	4.43605E-05	0.780644253	0.013	0.055	1	WT	Phf19	-0.042
Slc4a1	4.47287E-05	5.693845605	0.066	0	1	WT	Slc4a1	0.066
Al413582	4.81344E-05	0.70786121	0.091	0.197	1	WT	Al413582	-0.106
Odf2l	5.08336E-05	0.752100382	0.029	0.088	1	WT	Odf2l	-0.059
Ppp1r21	5.1768E-05	1.120172696	0.042	0.113	1	WT	Ppp1r21	-0.071
Mtg2	5.23885E-05	0.747818468	0.036	0.101	1	WT	Mtg2	-0.065
E4f1	5.24191E-05	1.169973956	0.083	0.185	1	WT	E4f1	-0.102
Parpbp	5.29969E-05	0.695988624	0.029	0.088	1	WT	Parpbp	-0.059
Lcor	5.38438E-05	1.110004469	0.047	0.122	1	WT	Lcor	-0.075
Tfdp2	5.55781E-05	0.699771032	0.088	0.193	1	WT	Tfdp2	-0.105
Ccdc32	5.58008E-05	0.8830173	0.057	0.139	1	WT	Ccdc32	-0.082
Aven	5.69968E-05	0.75815333	0.027	0.084	1	WT	Aven	-0.057
Pnpla7	5.97624E-05	1.010452343	0.04	0.109	1	WT	Pnpla7	-0.069
Jun	6.23176E-05	0.741176652	0.183	0.349	1	WT	Jun	-0.166
Creb3	6.36874E-05	0.935153264	0.05	0.126	1	WT	Creb3	-0.076
Samd8	6.37929E-05	0.6993189	0.025	0.08	1	WT	Samd8	-0.055
Gm32051	6.68866E-05	4.841638969	0.063	0	1	WT	Gm32051	0.063
Asah1	7.07197E-05	0.699519804	0.053	0.13	1	WT	Asah1	-0.077
Clcn7	7.0792E-05	1.086916574	0.038	0.105	1	WT	Clcn7	-0.067
Ccdc84	7.19187E-05	0.897110787	0.023	0.076	1	WT	Ccdc84	-0.053
Spindoc	7.66187E-05	0.704342909	0.021	0.071	1	WT	Spindoc	-0.05
Smpd2	8.32893E-05	0.884247743	0.019	0.067	1	WT	Smpd2	-0.048
Nr2f6	8.32893E-05	0.787870674	0.019	0.067	1	WT	Nr2f6	-0.048
Rufy3	8.49537E-05	0.715628998	0.019	0.067	1	WT	Rufy3	-0.048
Gm5617	8.63732E-05	0.906458573	0.041	0.109	1	WT	Gm5617	-0.068
Col4a2	8.742E-05	5.053223747	0.062	0	1	WT	Col4a2	0.062
Rps6kb2	8.78904E-05	1.123819627	0.046	0.118	1	WT	Rps6kb2	-0.072
Hist1h1b	8.90045E-05	0.719536946	0.159	0.298	1	WT	Hist1h1b	-0.139
Sec22a	9.26446E-05	1.172816874	0.041	0.109	1	WT	Sec22a	-0.068
Camta1	9.58634E-05	0.893403022	0.103	0.214	1	WT	Camta1	-0.111
Poc1a	9.68125E-05	0.8076184	0.056	0.134	1	WT	Poc1a	-0.078
Cyp4f13	0.000101444	0.790074465	0.026	0.08	1	WT	Cyp4f13	-0.054
Lrrc45	0.000104064	0.845818289	0.033	0.092	1	WT	Lrrc45	-0.059
Fam49a	0.000108469	0.953523072	0.026	0.08	1	WT	Fam49a	-0.054
Spata6	0.00010904	1.008587935	0.059	0.139	1	WT	Spata6	-0.08
Gm20186	0.000110596	0.783571877	0.044	0.113	1	WT	Gm20186	-0.069
Gadd45gip1	0.000113859	1.001269852	0.178	0.345	1	WT	Gadd45gip1	-0.167
Gypa	0.000114212	5.461984605	0.06	0	1	WT	Gypa	0.06
Wdfy2	0.000116837	0.904856611	0.024	0.076	1	WT	Wdfy2	-0.052
Gne	0.000118033	0.805100673	0.024	0.076	1	WT	Gne	-0.052
Piga	0.000124629	0.977310139	0.045	0.113	1	WT	Piga	-0.068
Nr1d2	0.00013221	0.964487316	0.022	0.071	1	WT	Nr1d2	-0.049
Borcs6	0.000133502	0.960089599	0.042	0.109	1	WT	Borcs6	-0.067
Tmem191c	0.0001366	1.022539971	0.047	0.118	1	WT	Tmem191c	-0.071
Epb41l4aos	0.000137565	1.070842199	0.085	0.181	1	WT	Epb41l4aos	-0.096
Adck5	0.000139767	1.207387147	0.047	0.118	1	WT	Adck5	-0.071
Manbal	0.000146072	0.793812985	0.09	0.189	1	WT	Manbal	-0.099
Mrpl50	0.000150233	1.015182382	0.085	0.181	1	WT	Mrpl50	-0.096
Tspan3	0.000150333	0.861309682	0.062	0.143	1	WT	Tspan3	-0.081
Gm10138	0.000160925	0.858804328	0.018	0.063	1	WT	Gm10138	-0.045

Slc4a8	0.000167774	0.960420909	0.027	0.08	1	WT	Slc4a8	-0.053
Tsr3	0.00017792	0.833062531	0.101	0.206	1	WT	Tsr3	-0.105
Rcan3	0.000187775	1.185175241	0.048	0.118	1	WT	Rcan3	-0.07
Rab37	0.000189559	0.869101711	0.032	0.088	1	WT	Rab37	-0.056
Tm4sf1	0.000202301	4.145139276	0.071	0.008	1	WT	Tm4sf1	0.063
Rtl8a	0.000206005	1.01360438	0.051	0.122	1	WT	Rtl8a	-0.071
Tfpi	0.000216648	0.787618526	0.023	0.071	1	WT	Tfpi	-0.048
Champ1	0.000223179	0.862177195	0.03	0.084	1	WT	Champ1	-0.054
Ptdss2	0.000223273	1.013368372	0.023	0.071	1	WT	Ptdss2	-0.048
Gm43848	0.000226089	0.944030991	0.023	0.071	1	WT	Gm43848	-0.048
Tagln	0.000234912	4.744432196	0.062	0.004	1	WT	Tagln	0.058
Cry1	0.000235037	0.923667299	0.039	0.101	1	WT	Cry1	-0.062
Ift80	0.000237404	0.965476391	0.039	0.101	1	WT	Ift80	-0.062
Wfdc17	0.000240497	3.810549293	0.118	0.042	1	WT	Wfdc17	0.076
Zfp120	0.000244989	0.762338698	0.049	0.118	1	WT	Zfp120	-0.069
Tmem203	0.000248886	0.840345984	0.085	0.176	1	WT	Tmem203	-0.091
Klhdc2	0.00025728	1.267723936	0.136	0.261	1	WT	Klhdc2	-0.125
Nt5dc2	0.000312099	0.805931751	0.026	0.076	1	WT	Nt5dc2	-0.05
8430408G22R	0.000331619	4.802365514	0.052	0	1	WT	8430408G22R	0.052
Ikbip	0.000331689	1.055248726	0.015	0.055	1	WT	Ikbip	-0.04
Tex9	0.00033299	0.81643166	0.031	0.084	1	WT	Tex9	-0.053
Eef2kmt	0.000361095	0.781472617	0.036	0.092	1	WT	Eef2kmt	-0.056
Msrb1	0.000396753	1.376112228	0.16	0.303	1	WT	Msrb1	-0.143
Gda	0.000402099	3.700744636	0.073	0.013	1	WT	Gda	0.06
Cd320	0.000417922	0.83909452	0.038	0.097	1	WT	Cd320	-0.059
Lym7	0.000418837	0.736731159	0.005	0.029	1	WT	Lym7	-0.024
Cep97	0.000422962	1.148849544	0.048	0.113	1	WT	Cep97	-0.065
Gzme	0.000446956	0.705203917	0.042	0.101	1	WT	Gzme	-0.059
Serpinh1	0.000451779	3.844953538	0.079	0.017	1	WT	Serpinh1	0.062
Rap2b	0.000459139	1.09019607	0.051	0.118	1	WT	Rap2b	-0.067
Cenpu	0.000459963	0.712728376	0.02	0.063	1	WT	Cenpu	-0.043
Cd24a	0.00048126	3.00505632	0.086	0.021	1	WT	Cd24a	0.065
Tbcc	0.000484598	0.962643602	0.054	0.122	1	WT	Tbcc	-0.068
Ctsh	0.000498153	0.739505979	0.032	0.084	1	WT	Ctsh	-0.052
Tma16	0.000506815	0.911719671	0.074	0.155	1	WT	Tma16	-0.081
Tmem87b	0.000521304	0.74670964	0.049	0.113	1	WT	Tmem87b	-0.064
Tmem97	0.000531768	0.749320635	0.093	0.185	1	WT	Tmem97	-0.092
Ftl1-ps1	0.000538893	0.837117634	0.025	0.071	1	WT	Ftl1-ps1	-0.046
Ddit4	0.000555943	0.957708266	0.207	0.374	1	WT	Ddit4	-0.167
Man2a2	0.000558728	1.30106459	0.064	0.139	1	WT	Man2a2	-0.075
Tpcn1	0.000578376	0.727110805	0.016	0.055	1	WT	Tpcn1	-0.039
Akap12	0.000584757	0.733604597	0.016	0.055	1	WT	Akap12	-0.039
Dync2h1	0.000591663	1.067799826	0.044	0.105	1	WT	Dync2h1	-0.061
Fam210b	0.000592356	0.800004519	0.035	0.088	1	WT	Fam210b	-0.053
Ctsz	0.00059397	0.823853302	0.175	0.319	1	WT	Ctsz	-0.144
Armc5	0.000623541	0.93416858	0.023	0.067	1	WT	Armc5	-0.044
Blvrb	0.000634569	3.328941549	0.132	0.059	1	WT	Blvrb	0.073
Sapcd2	0.000642756	1.009896791	0.052	0.118	1	WT	Sapcd2	-0.066
Ss18l2	0.000704628	1.143406234	0.102	0.197	1	WT	Ss18l2	-0.095
Abhd18	0.000724567	0.773334921	0.05	0.113	1	WT	Abhd18	-0.063
Rmnd1	0.0007269	0.949153959	0.033	0.084	1	WT	Rmnd1	-0.051

9430015G10R	0.000739123	0.816826873	0.021	0.063	1	WT	9430015G10R	-0.042
Zswim7	0.000816046	1.104143827	0.045	0.105	1	WT	Zswim7	-0.06
Nkiras2	0.000830787	1.397873251	0.05	0.113	1	WT	Nkiras2	-0.063
Myl9	0.000840099	4.75778815	0.045	0	1	WT	Myl9	0.045
Lcn2	0.0008401	5.459321882	0.045	0	1	WT	Lcn2	0.045
Emcn	0.0008401	4.638177148	0.045	0	1	WT	Emcn	0.045
Rasgrp2	0.000863479	1.315996995	0.056	0.122	1	WT	Rasgrp2	-0.066
Hist1h2bg	0.000894786	1.16119856	0.036	0.088	1	WT	Hist1h2bg	-0.052
Ppox	0.00097878	1.113707224	0.038	0.092	1	WT	Ppox	-0.054
Hist2h2ac	0.000981958	1.043112204	0.043	0.101	1	WT	Hist2h2ac	-0.058
Dhrs3	0.001002032	0.980552568	0.024	0.067	1	WT	Dhrs3	-0.043
C1qc	0.001008968	3.193493937	0.113	0.046	1	WT	C1qc	0.067
Cerk	0.001054412	1.01958941	0.049	0.109	1	WT	Cerk	-0.06
Tyrp1	0.00105864	3.145274963	0.18	0.109	1	WT	Tyrp1	0.071
Hist1h4h	0.001064053	1.085755777	0.112	0.21	1	WT	Hist1h4h	-0.098
Tspyl2	0.001077301	1.241342351	0.029	0.076	1	WT	Tspyl2	-0.047
Znhit2	0.001094905	1.07081672	0.057	0.122	1	WT	Znhit2	-0.065
Mpp1	0.001099038	1.112447669	0.066	0.139	1	WT	Mpp1	-0.073
Cpeb2	0.001107643	1.157880446	0.034	0.084	1	WT	Cpeb2	-0.05
Eya2	0.001139434	0.818056902	0.006	0.029	1	WT	Eya2	-0.023
Sirt3	0.001214107	1.106217454	0.037	0.088	1	WT	Sirt3	-0.051
Spns1	0.001218748	1.449407973	0.041	0.097	1	WT	Spns1	-0.056
Lst1	0.001238448	0.821091582	0.044	0.101	1	WT	Lst1	-0.057
Bivm	0.001249377	0.720653244	0.013	0.046	1	WT	Bivm	-0.033
Trmt11	0.001277296	0.856294945	0.032	0.08	1	WT	Trmt11	-0.048
Fam213a	0.001312721	0.919044646	0.122	0.223	1	WT	Fam213a	-0.101
Ciart	0.001369269	0.703216643	0.01	0.038	1	WT	Ciart	-0.028
Zfp668	0.001372016	0.74883515	0.02	0.059	1	WT	Zfp668	-0.039
Lef1	0.001414828	1.183271002	0.074	0.147	1	WT	Lef1	-0.073
Il1b	0.001421174	1.305953402	0.035	0.084	1	WT	Il1b	-0.049
Bola1	0.001428244	0.911791321	0.111	0.206	1	WT	Bola1	-0.095
Ptges2	0.00146648	0.916779724	0.025	0.067	1	WT	Ptges2	-0.042
Scpep1	0.001501973	0.841982718	0.025	0.067	1	WT	Scpep1	-0.042
Qtrt2	0.001632535	1.320380583	0.018	0.055	1	WT	Qtrt2	-0.037
Rabl3	0.001635762	0.840261726	0.038	0.088	1	WT	Rabl3	-0.05
Trf	0.00172022	0.797972215	0.023	0.063	1	WT	Trf	-0.04
Usp33	0.001786498	0.958053234	0.023	0.063	1	WT	Usp33	-0.04
Def8	0.00180243	0.824710046	0.023	0.063	1	WT	Def8	-0.04
Dtd2	0.00186966	0.92412442	0.04	0.092	1	WT	Dtd2	-0.052
Arfip2	0.001893125	1.116404505	0.048	0.105	1	WT	Arfip2	-0.057
Ext1	0.001900149	0.983718022	0.016	0.05	1	WT	Ext1	-0.034
Ccl2	0.001939428	1.074797315	0.059	0.122	1	WT	Ccl2	-0.063
Slc24a5	0.002077183	1.510361709	0.085	0.164	1	WT	Slc24a5	-0.079
Zcchc4	0.002114131	0.846779701	0.046	0.101	1	WT	Zcchc4	-0.055
Dennd3	0.00213491	1.26314376	0.014	0.046	1	WT	Dennd3	-0.032
Adrb2	0.00213491	0.795141438	0.014	0.046	1	WT	Adrb2	-0.032
Ick	0.002159556	0.842202818	0.026	0.067	1	WT	Ick	-0.041
Cnpy3	0.002187028	1.144441321	0.062	0.126	1	WT	Cnpy3	-0.064
Gm11131	0.002189721	1.138649864	0.021	0.059	1	WT	Gm11131	-0.038
Rpap2	0.002196287	0.776458149	0.038	0.088	1	WT	Rpap2	-0.05
Ino80b	0.002234849	1.003880259	0.113	0.206	1	WT	Ino80b	-0.093

Mfsd3	0.002260851	0.709300308	0.005	0.025	1	WT	Mfsd3	-0.02
Tpm2	0.002270712	4.592342019	0.046	0.004	1	WT	Tpm2	0.042
Sgcb	0.002280413	0.85315115	0.034	0.08	1	WT	Sgcb	-0.046
Stoml1	0.002307052	0.998094571	0.038	0.088	1	WT	Stoml1	-0.05
Adgrg3	0.002412894	0.835792246	0.013	0.042	1	WT	Adgrg3	-0.029
Zfp113	0.002600547	1.005025368	0.019	0.055	1	WT	Zfp113	-0.036
Tns1	0.00260532	0.965919282	0.029	0.071	1	WT	Tns1	-0.042
Miga1	0.002637429	0.769891615	0.024	0.063	1	WT	Miga1	-0.039
Zfp316	0.002662664	1.015065555	0.007	0.029	1	WT	Zfp316	-0.022
Hist1h2be	0.002683455	0.798814257	0.044	0.097	1	WT	Hist1h2be	-0.053
Rnf25	0.002705418	0.973367344	0.024	0.063	1	WT	Rnf25	-0.039
Usp49	0.002719053	0.758515933	0.009	0.034	1	WT	Usp49	-0.025
Gm16740	0.002736611	0.754803351	0.009	0.034	1	WT	Gm16740	-0.025
Fdps	0.002760899	0.735068894	0.127	0.223	1	WT	Fdps	-0.096
Zfp637	0.002775564	1.100727332	0.037	0.084	1	WT	Zfp637	-0.047
Tom1	0.002930007	0.805440603	0.017	0.05	1	WT	Tom1	-0.033
Alg3	0.003124386	0.766343356	0.027	0.067	1	WT	Alg3	-0.04
Hist3h2ba	0.003195525	1.42096709	0.047	0.101	1	WT	Hist3h2ba	-0.054
Vat1	0.003211983	0.901991912	0.072	0.139	1	WT	Vat1	-0.067
Rabac1	0.003212514	0.867275335	0.367	0.655	1	WT	Rabac1	-0.288
Rnf185	0.003215831	0.975013367	0.022	0.059	1	WT	Rnf185	-0.037
Trmu	0.003229798	1.365882344	0.022	0.059	1	WT	Trmu	-0.037
2700062C07R	0.003241587	0.825878539	0.053	0.109	1	WT	2700062C07R	-0.056
4930522L14Ri	0.003309831	0.927503383	0.053	0.109	1	WT	4930522L14Ri	-0.056
Ecschr	0.003386729	4.469605077	0.043	0.004	1	WT	Ecschr	0.039
Gm10073	0.003620143	1.335044814	0.199	0.345	1	WT	Gm10073	-0.146
1600020E01Ri	0.00366421	1.333044412	0.066	0.13	1	WT	1600020E01Ri	-0.064
Ier3	0.003879242	0.752214085	0.147	0.252	1	WT	Ier3	-0.105
Phf13	0.003946726	1.499968215	0.02	0.055	1	WT	Phf13	-0.035
Cdk16	0.00396244	1.134135692	0.051	0.105	1	WT	Cdk16	-0.054
Selenon	0.003983355	0.805039105	0.033	0.076	1	WT	Selenon	-0.043
Rab33b	0.003986482	0.869876707	0.025	0.063	1	WT	Rab33b	-0.038
Zfp787	0.004033254	1.173066436	0.116	0.206	1	WT	Zfp787	-0.09
Ica1	0.004068393	0.82081535	0.013	0.042	1	WT	Ica1	-0.029
Klc4	0.004111246	0.970464042	0.013	0.042	1	WT	Klc4	-0.029
Syt4	0.004237219	3.903450013	0.056	0.013	1	WT	Syt4	0.043
Pias3	0.004272696	1.274504178	0.033	0.076	1	WT	Pias3	-0.043
Lncpint	0.004448218	0.961504748	0.073	0.139	1	WT	Lncpint	-0.066
Gzmc	0.004448627	1.156354337	0.114	0.189	1	WT	Gzmc	-0.075
Pdlim1	0.00445363	0.832995576	0.049	0.101	1	WT	Pdlim1	-0.052
Samd3	0.004678488	0.961710847	0.023	0.059	1	WT	Samd3	-0.036
Glce	0.004697875	0.797834106	0.012	0.038	1	WT	Glce	-0.026
Ipo13	0.004736842	1.175152093	0.023	0.059	1	WT	Ipo13	-0.036
Hist1h3g	0.00477611	1.061386632	0.023	0.059	1	WT	Hist1h3g	-0.036
Cald1	0.004789032	4.62769905	0.048	0.008	1	WT	Cald1	0.04
Nudt13	0.004944517	0.985483791	0.031	0.071	1	WT	Nudt13	-0.04
Pinx1	0.004952428	0.70573771	0.052	0.105	1	WT	Pinx1	-0.053
Tef	0.00504868	1.239219689	0.038	0.084	1	WT	Tef	-0.046
Plvap	0.00505158	3.863270825	0.04	0.004	1	WT	Plvap	0.036
Angptl6	0.005154889	0.696653936	0.01	0.034	1	WT	Angptl6	-0.024
Ndrp2	0.005170129	0.79066043	0.01	0.034	1	WT	Ndrp2	-0.024

Hrh2	0.00518541	0.725445313	0.01	0.034	1	WT	Hrh2	-0.024
Lysmd1	0.005200731	0.883639278	0.01	0.034	1	WT	Lysmd1	-0.024
Hist1h3e	0.005213793	1.33544246	0.122	0.214	1	WT	Hist1h3e	-0.092
Cd63	0.005388808	2.454362409	0.194	0.139	1	WT	Cd63	0.055
Ctgf	0.00539423	4.008396657	0.032	0	1	WT	Ctgf	0.032
Kif24	0.005456519	0.709528526	0.008	0.029	1	WT	Kif24	-0.021
Cela1	0.005601508	0.758673251	0.016	0.046	1	WT	Cela1	-0.03
Gab3	0.005627975	0.814988208	0.016	0.046	1	WT	Gab3	-0.03
Mlana	0.005664864	2.498709554	0.114	0.059	1	WT	Mlana	0.055
Mpp5	0.005736117	1.056831712	0.021	0.055	1	WT	Mpp5	-0.034
Mgp	0.0057721	4.168511615	0.039	0.004	1	WT	Mgp	0.035
Pyroxd1	0.005824539	1.163611131	0.034	0.076	1	WT	Pyroxd1	-0.042
Hist1h4i	0.005978585	1.125218954	0.202	0.34	1	WT	Hist1h4i	-0.138
Dnajc17	0.006073768	0.795033169	0.037	0.08	1	WT	Dnajc17	-0.043
Thbs1	0.006094307	3.556861323	0.083	0.034	1	WT	Thbs1	0.049
Irak1bp1	0.00612286	0.974572787	0.029	0.067	1	WT	Irak1bp1	-0.038
Zfp397	0.006452373	1.273168502	0.05	0.101	1	WT	Zfp397	-0.051
Mfge8	0.006573935	1.400602288	0.083	0.151	1	WT	Mfge8	-0.068
Poli	0.00657432	0.94603674	0.014	0.042	1	WT	Poli	-0.028
Dhcr24	0.006590255	1.028374167	0.063	0.122	1	WT	Dhcr24	-0.059
Slpi	0.006595684	4.367002919	0.038	0.004	1	WT	Slpi	0.034
Rgs5	0.006608404	3.992480808	0.038	0.004	1	WT	Rgs5	0.034
Cdk14	0.006639105	0.746259569	0.014	0.042	1	WT	Cdk14	-0.028
Tbc1d17	0.006664583	1.300363487	0.053	0.105	1	WT	Tbc1d17	-0.052
Abcc5	0.006715081	1.005250711	0.024	0.059	1	WT	Abcc5	-0.035
Mcrip2	0.006741591	1.375781385	0.024	0.059	1	WT	Mcrip2	-0.035
Gtpbp3	0.006754881	1.099954856	0.024	0.059	1	WT	Gtpbp3	-0.035
Mtmr4	0.006932335	0.931025654	0.019	0.05	1	WT	Mtmr4	-0.031
Timp1	0.007044942	4.340239281	0.03	0	1	WT	Timp1	0.03
Ctsl	0.007054333	1.074705715	0.075	0.139	1	WT	Ctsl	-0.064
1110065P20R	0.007209724	1.257963269	0.081	0.147	1	WT	1110065P20R	-0.066
Ccl7	0.007238206	1.175444395	0.045	0.092	1	WT	Ccl7	-0.047
Gatsl3	0.007465463	0.911049342	0.027	0.063	1	WT	Gatsl3	-0.036
Hp	0.007537199	4.2454691	0.038	0.004	1	WT	Hp	0.034
Fbxw9	0.007704797	0.920416422	0.027	0.063	1	WT	Fbxw9	-0.036
Tnfaip2	0.007737148	0.703322404	0.013	0.038	1	WT	Tnfaip2	-0.025
Sertad3	0.008541279	0.896622197	0.03	0.067	1	WT	Sertad3	-0.037
Tm9sf1	0.008559486	0.788668972	0.017	0.046	1	WT	Tm9sf1	-0.029
Amigo3	0.008943452	0.800341087	0.003	0.017	1	WT	Amigo3	-0.014
Sesn2	0.008996075	0.699406245	0.011	0.034	1	WT	Sesn2	-0.023
Zfp90	0.009069667	0.913975735	0.011	0.034	1	WT	Zfp90	-0.023
Mccc1	0.009094317	1.001525379	0.011	0.034	1	WT	Mccc1	-0.023
Pkig	0.009096785	0.926606774	0.049	0.097	1	WT	Pkig	-0.048
Txnip	0.009097012	2.21866781	0.326	0.319	1	WT	Txnip	0.007
Haspin	0.009161455	0.762250869	0.025	0.059	1	WT	Haspin	-0.034
Tspo2	0.009207339	3.363574432	0.028	0	1	WT	Tspo2	0.028
Zfp52	0.009283014	0.899128125	0.025	0.059	1	WT	Zfp52	-0.034
Amdhd2	0.009702095	1.130377098	0.049	0.097	1	WT	Amdhd2	-0.048
Tmem154	0.009737472	1.104774776	0.036	0.076	1	WT	Tmem154	-0.04
Cirbp	0.009784844	0.948311675	0.347	0.609	1	WT	Cirbp	-0.262
Nudt14	0.009796402	1.307360752	0.052	0.101	1	WT	Nudt14	-0.049

Ass1	0.00980949	1.08428269	0.157	0.256		1 WT	Ass1	-0.099
Hist1h2bb	0.009816227	1.598575323	0.085	0.151		1 WT	Hist1h2bb	-0.066
S100b	0.009863614	3.693704491	0.036	0.004		1 WT	S100b	0.032
Rbp7	0.009882533	3.656805001	0.036	0.004		1 WT	Rbp7	0.032
Il21r	1.2173E-118	3.118049979	0.782	0.088	3.7802E-114	KO	Il21r	0.694
Rgs2	3.3109E-111	2.721919022	0.878	0.145	1.0281E-106	KO	Rgs2	0.733
Klre1	5.2272E-105	3.028314916	0.622	0.046	1.6232E-100	KO	Klre1	0.576
Nr4a2	7.4707E-103	3.164217513	0.765	0.117	2.31987E-98	KO	Nr4a2	0.648
Kdm6b	7.1289E-101	2.664071277	0.639	0.054	2.21374E-96	KO	Kdm6b	0.585
Nr4a3	4.399E-100	3.015771206	0.622	0.051	1.36603E-95	KO	Nr4a3	0.571
Crem	1.4853E-99	2.465115639	0.756	0.1	4.61233E-95	KO	Crem	0.656
Tnfrsf1b	6.74582E-98	2.206193382	0.786	0.109	2.09478E-93	KO	Tnfrsf1b	0.677
Rgs16	3.6372E-93	3.272299924	0.718	0.11	1.12946E-88	KO	Rgs16	0.608
Nr4a1	1.42007E-89	2.702101662	0.563	0.045	4.40976E-85	KO	Nr4a1	0.518
H2-T23	3.24125E-88	2.300800976	0.878	0.216	1.00651E-83	KO	H2-T23	0.662
Pim1	3.87025E-87	2.745705704	0.765	0.138	1.20183E-82	KO	Pim1	0.627
Gpr132	1.5837E-86	2.259319624	0.723	0.101	4.91787E-82	KO	Gpr132	0.622
Gem	1.99715E-84	2.359135338	0.639	0.079	6.20176E-80	KO	Gem	0.56
Vps37b	3.22844E-82	2.056462296	0.908	0.228	1.00253E-77	KO	Vps37b	0.68
Neurl3	1.47423E-80	1.854401925	0.613	0.069	4.57793E-76	KO	Neurl3	0.544
Dock8	5.89206E-80	1.746405672	0.706	0.103	1.82966E-75	KO	Dock8	0.603
Cap1	2.06789E-79	1.963366528	0.731	0.121	6.42141E-75	KO	Cap1	0.61
H2-T22	4.87899E-79	1.651435518	0.849	0.176	1.51507E-74	KO	H2-T22	0.673
Gtf2i	7.10042E-79	1.805885432	0.647	0.085	2.20489E-74	KO	Gtf2i	0.562
Fosl2	9.22466E-79	1.746547092	0.853	0.173	2.86453E-74	KO	Fosl2	0.68
F2r	9.48438E-79	2.276569556	0.517	0.044	2.94518E-74	KO	F2r	0.473
Ppp1r16b	4.32107E-78	1.554970117	0.718	0.111	1.34182E-73	KO	Ppp1r16b	0.607
Atxn1	6.84869E-77	1.753401354	0.777	0.14	2.12672E-72	KO	Atxn1	0.637
Ndfip2	1.50814E-76	1.697056236	0.685	0.104	4.68324E-72	KO	Ndfip2	0.581
Mid1	1.90529E-76	3.065628762	0.403	0.018	5.91649E-72	KO	Mid1	0.385
Nr3c1	5.02015E-76	1.651394768	0.731	0.124	1.55891E-71	KO	Nr3c1	0.607
Cox17	5.051E-76	1.997156818	0.866	0.221	1.56849E-71	KO	Cox17	0.645
Prkca	7.87362E-76	1.795410342	0.639	0.088	2.44499E-71	KO	Prkca	0.551
Nfil3	2.92652E-75	1.646526773	0.605	0.076	9.08771E-71	KO	Nfil3	0.529
Cd27	3.6052E-75	1.730716077	0.739	0.13	1.11952E-70	KO	Cd27	0.609
Nabp1	4.08142E-75	1.719410677	0.807	0.16	1.2674E-70	KO	Nabp1	0.647
Arsb	1.06522E-74	1.966392818	0.697	0.118	3.30782E-70	KO	Arsb	0.579
Hivep2	4.82619E-74	2.223702519	0.5	0.044	1.49868E-69	KO	Hivep2	0.456
Ddx17	2.96182E-73	1.428936643	0.798	0.155	9.19735E-69	KO	Ddx17	0.643
Itgb2	3.04909E-73	1.580704503	0.819	0.175	9.46834E-69	KO	Itgb2	0.644
2900026A02R	7.98663E-73	4.032032341	0.353	0.011	2.48009E-68	KO	2900026A02R	0.342
Pabpc1	6.83377E-72	1.402296257	0.971	0.601	2.12209E-67	KO	Pabpc1	0.37
Sytl2	2.10718E-71	1.790459398	0.588	0.075	6.54342E-67	KO	Sytl2	0.513
Tnfaip3	2.29381E-71	1.777062226	0.95	0.295	7.12298E-67	KO	Tnfaip3	0.655
Rbpj	3.93893E-71	1.880340291	0.832	0.207	1.22316E-66	KO	Rbpj	0.625
Sorl1	4.74145E-71	1.50496094	0.58	0.071	1.47236E-66	KO	Sorl1	0.509
Lag3	5.65113E-71	1.978886782	0.836	0.207	1.75484E-66	KO	Lag3	0.629
Pdcd6ip	2.81239E-70	1.437782608	0.786	0.156	8.73331E-66	KO	Pdcd6ip	0.63
Dusp4	8.07368E-70	1.976886279	0.5	0.05	2.50712E-65	KO	Dusp4	0.45
Ifng	9.47818E-70	3.01989345	0.563	0.076	2.94326E-65	KO	Ifng	0.487
Pdcd1	1.29326E-69	2.145783509	0.794	0.214	4.01597E-65	KO	Pdcd1	0.58

B2m	1.42625E-69	1.100378486	0.987	0.848	4.42892E-65	KO	B2m	0.139
Sec62	1.60811E-69	1.438606976	0.798	0.164	4.99366E-65	KO	Sec62	0.634
Irf1	1.7604E-69	1.68269656	0.651	0.103	5.46656E-65	KO	Irf1	0.548
Hopx	2.97247E-69	1.720059994	0.676	0.113	9.2304E-65	KO	Hopx	0.563
Tagap1	5.94075E-69	3.035774257	0.357	0.014	1.84478E-64	KO	Tagap1	0.343
Kdm2b	9.49555E-69	1.74142401	0.685	0.121	2.94865E-64	KO	Kdm2b	0.564
Samsn1	1.0544E-68	1.810271936	0.819	0.2	3.27423E-64	KO	Samsn1	0.619
Smad7	1.61698E-68	1.679151605	0.756	0.153	5.02121E-64	KO	Smad7	0.603
Stat1	2.24303E-68	1.880060075	0.765	0.163	6.96527E-64	KO	Stat1	0.602
Gm10036	1.22116E-67	2.579676747	0.378	0.02	3.79205E-63	KO	Gm10036	0.358
Kras	1.37334E-67	1.42887621	0.618	0.093	4.26464E-63	KO	Kras	0.525
Gstp1	3.29332E-67	1.386362497	0.609	0.088	1.02268E-62	KO	Gstp1	0.521
Atp8b2	5.95136E-67	1.808435438	0.412	0.029	1.84808E-62	KO	Atp8b2	0.383
Sik1	7.66918E-67	1.491788018	0.592	0.083	2.38151E-62	KO	Sik1	0.509
Inpp4b	9.0022E-67	1.602367322	0.718	0.136	2.79545E-62	KO	Inpp4b	0.582
Ubash3b	2.31738E-66	1.634448735	0.618	0.094	7.19615E-62	KO	Ubash3b	0.524
Map3k1	3.08355E-66	1.427043617	0.647	0.104	9.57533E-62	KO	Map3k1	0.543
Nfkb1	3.17185E-66	1.777678345	0.798	0.188	9.84954E-62	KO	Nfkb1	0.61
Mob1a	4.11864E-66	1.310013755	0.769	0.155	1.27896E-61	KO	Mob1a	0.614
Pde4d	4.16165E-66	1.616078075	0.471	0.046	1.29232E-61	KO	Pde4d	0.425
Lasp1	9.33159E-66	1.251525091	0.668	0.112	2.89774E-61	KO	Lasp1	0.556
Prf1	1.96779E-65	2.230868768	0.714	0.166	6.11058E-61	KO	Prf1	0.548
Rbms1	2.89804E-65	1.548759292	0.761	0.16	8.99928E-61	KO	Rbms1	0.601
Ifnar1	6.17438E-65	1.116284203	0.697	0.123	1.91733E-60	KO	Ifnar1	0.574
Tapbpl	9.01785E-65	1.771473954	0.508	0.06	2.80031E-60	KO	Tapbpl	0.448
Ccl4	1.16896E-64	2.463078565	0.647	0.127	3.62998E-60	KO	Ccl4	0.52
Vgll4	1.28157E-64	1.184987099	0.761	0.152	3.97965E-60	KO	Vgll4	0.609
Eif3j2	1.95304E-64	4.800827672	0.269	0.001	6.06479E-60	KO	Eif3j2	0.268
Acsl5	2.09448E-64	1.483964844	0.618	0.099	6.504E-60	KO	Acsl5	0.519
Sla	2.24468E-64	1.495249598	0.727	0.145	6.9704E-60	KO	Sla	0.582
Mxi1	3.28402E-64	1.840406378	0.571	0.082	1.01979E-59	KO	Mxi1	0.489
Areg	5.94736E-64	5.941379975	0.353	0.021	1.84683E-59	KO	Areg	0.332
Ctcf	6.98599E-64	1.401091438	0.664	0.118	2.16936E-59	KO	Ctcf	0.546
Gadd45b	7.46818E-64	2.230252396	0.681	0.145	2.31909E-59	KO	Gadd45b	0.536
Tm6sf1	1.04229E-63	1.825782774	0.513	0.063	3.23662E-59	KO	Tm6sf1	0.45
Bend4	1.83998E-63	1.613768289	0.5	0.058	5.7137E-59	KO	Bend4	0.442
Ap2b1	2.35184E-63	1.242468918	0.588	0.088	7.30318E-59	KO	Ap2b1	0.5
Fgl2	2.69202E-63	1.63232646	0.601	0.093	8.35953E-59	KO	Fgl2	0.508
Cbx4	6.94116E-63	1.436761842	0.567	0.083	2.15544E-58	KO	Cbx4	0.484
Irf8	7.15042E-63	2.112311063	0.748	0.192	2.22042E-58	KO	Irf8	0.556
Snx9	1.02159E-62	2.440816721	0.45	0.045	3.17235E-58	KO	Snx9	0.405
Itpkb	1.97856E-62	1.182291704	0.718	0.135	6.14403E-58	KO	Itpkb	0.583
Anxa11	2.56668E-62	1.215270295	0.651	0.111	7.97031E-58	KO	Anxa11	0.54
Dock2	3.12398E-62	1.309295366	0.874	0.215	9.7009E-58	KO	Dock2	0.659
Cst7	3.72953E-62	1.668269092	0.748	0.164	1.15813E-57	KO	Cst7	0.584
Prr5l	4.82153E-62	3.073848589	0.311	0.011	1.49723E-57	KO	Prr5l	0.3
Srpr	4.83528E-62	1.493505875	0.542	0.075	1.5015E-57	KO	Srpr	0.467
Cish	1.96132E-61	1.892381798	0.517	0.068	6.0905E-57	KO	Cish	0.449
Chd7	3.00572E-61	1.272529037	0.655	0.115	9.33367E-57	KO	Chd7	0.54
Rel	4.17123E-61	2.23107356	0.592	0.104	1.29529E-56	KO	Rel	0.488
Serpinb6b	4.20245E-61	1.955157494	0.681	0.143	1.30499E-56	KO	Serpinb6b	0.538

Sh3kbp1	8.35232E-61	1.35712843	0.744	0.162	2.59365E-56	KO	Sh3kbp1	0.582
Ier5l	1.80204E-60	1.888474761	0.634	0.117	5.59586E-56	KO	Ier5l	0.517
Orai1	1.91683E-60	1.369628551	0.639	0.114	5.95234E-56	KO	Orai1	0.525
Gimap8	1.99824E-60	2.239999142	0.429	0.042	6.20514E-56	KO	Gimap8	0.387
Rpl27	2.11601E-60	1.377674231	0.937	0.573	6.57085E-56	KO	Rpl27	0.364
Abcb9	2.41445E-60	2.60294311	0.361	0.024	7.4976E-56	KO	Abcb9	0.337
Gata3	3.70542E-60	2.276113837	0.458	0.052	1.15064E-55	KO	Gata3	0.406
Cdc5l	5.42666E-60	1.290845368	0.609	0.102	1.68514E-55	KO	Cdc5l	0.507
Gm8186	7.03552E-60	1.392974219	0.613	0.108	2.18474E-55	KO	Gm8186	0.505
Nfkbid	9.26134E-60	2.707586879	0.387	0.032	2.87592E-55	KO	Nfkbid	0.355
Zc3h12a	9.38284E-60	1.499261723	0.441	0.045	2.91365E-55	KO	Zc3h12a	0.396
Was	9.39691E-60	1.39221523	0.45	0.048	2.91802E-55	KO	Was	0.402
Ezr	1.24074E-59	1.487063429	0.836	0.224	3.85287E-55	KO	Ezr	0.612
Glud1	2.35608E-59	1.272119902	0.777	0.178	7.31634E-55	KO	Glud1	0.599
Sla2	3.55211E-59	1.564984288	0.504	0.067	1.10304E-54	KO	Sla2	0.437
Mlec	4.31275E-59	1.320947116	0.618	0.11	1.33924E-54	KO	Mlec	0.508
Ier3ip1	4.37948E-59	1.278479542	0.769	0.172	1.35996E-54	KO	Ier3ip1	0.597
Actg1	4.71725E-59	1.163171161	0.979	0.897	1.46485E-54	KO	Actg1	0.082
Nucb1	4.75252E-59	1.118381046	0.773	0.174	1.4758E-54	KO	Nucb1	0.599
Man2b1	4.95497E-59	1.157685971	0.655	0.122	1.53867E-54	KO	Man2b1	0.533
Itk	5.5012E-59	1.276647408	0.828	0.206	1.70829E-54	KO	Itk	0.622
Numa1	7.96646E-59	1.465946787	0.576	0.091	2.47382E-54	KO	Numa1	0.485
Auh	8.46795E-59	1.136483375	0.534	0.075	2.62955E-54	KO	Auh	0.459
Stk39	1.39511E-58	1.488019975	0.559	0.088	4.33224E-54	KO	Stk39	0.471
Dennd4a	1.47285E-58	1.683689673	0.929	0.324	4.57365E-54	KO	Dennd4a	0.605
Entpd1	1.51939E-58	1.700575374	0.483	0.061	4.71815E-54	KO	Entpd1	0.422
Ppp3cc	1.54842E-58	1.6110359	0.441	0.047	4.80831E-54	KO	Ppp3cc	0.394
Cox20	2.92081E-58	1.400964169	0.63	0.116	9.07001E-54	KO	Cox20	0.514
Tox	2.98334E-58	1.601595296	0.744	0.177	9.26417E-54	KO	Tox	0.567
P2ry10	3.02844E-58	0.956054448	0.786	0.173	9.40421E-54	KO	P2ry10	0.613
Lrmp	5.47857E-58	1.209232492	0.618	0.108	1.70126E-53	KO	Lrmp	0.51
Tob2	9.6798E-58	2.199310731	0.466	0.059	3.00587E-53	KO	Tob2	0.407
B4galt1	1.10019E-57	1.150317616	0.601	0.102	3.41642E-53	KO	B4galt1	0.499
Ppp1r18	1.90988E-57	1.328338854	0.718	0.152	5.93074E-53	KO	Ppp1r18	0.566
Bhlhe40	2.12602E-57	1.656901453	0.916	0.368	6.60192E-53	KO	Bhlhe40	0.548
Sfr1	3.94035E-57	1.311496848	0.702	0.156	1.2236E-52	KO	Sfr1	0.546
Csnk2a1	4.81955E-57	1.388665852	0.521	0.075	1.49661E-52	KO	Csnk2a1	0.446
Il2rg	5.89087E-57	1.184170363	0.794	0.187	1.82929E-52	KO	Il2rg	0.607
Slc7a1	5.9591E-57	1.656253277	0.487	0.066	1.85048E-52	KO	Slc7a1	0.421
Sept6	6.70041E-57	1.387659298	0.55	0.088	2.08068E-52	KO	Sept6	0.462
Tnfrsf9	6.76183E-57	1.659486996	0.878	0.332	2.09975E-52	KO	Tnfrsf9	0.546
Snhg6	1.07963E-56	1.589644029	0.454	0.055	3.35257E-52	KO	Snhg6	0.399
Diaph1	1.30919E-56	1.230012187	0.777	0.186	4.06544E-52	KO	Diaph1	0.591
Ccr5	1.31702E-56	1.58881494	0.639	0.127	4.08974E-52	KO	Ccr5	0.512
Rnaset2a	1.53958E-56	2.168270069	0.324	0.018	4.78085E-52	KO	Rnaset2a	0.306
Ppp1r15a	1.65177E-56	1.213912204	0.542	0.083	5.12925E-52	KO	Ppp1r15a	0.459
Cers4	1.65969E-56	1.413368816	0.546	0.086	5.15383E-52	KO	Cers4	0.46
Cxcr6	2.59641E-56	1.501696867	0.744	0.176	8.06263E-52	KO	Cxcr6	0.568
Nup98	3.43489E-56	0.985210211	0.571	0.093	1.06664E-51	KO	Nup98	0.478
B4galt5	3.83976E-56	1.30382227	0.483	0.064	1.19236E-51	KO	B4galt5	0.419
Csrnp1	4.15797E-56	1.595016246	0.454	0.055	1.29117E-51	KO	Csrnp1	0.399

Il4ra	5.07452E-56	1.167200588	0.588	0.099	1.57579E-51	KO	Il4ra	0.489
Litaf	6.18594E-56	1.508863131	0.803	0.217	1.92092E-51	KO	Litaf	0.586
Crybg1	1.02154E-55	0.900461808	0.592	0.102	3.1722E-51	KO	Crybg1	0.49
Prrc2a	1.64926E-55	1.125298024	0.735	0.163	5.12144E-51	KO	Prrc2a	0.572
Zeb2	1.92255E-55	1.381180593	0.592	0.105	5.97008E-51	KO	Zeb2	0.487
Dctn4	2.29612E-55	1.18194114	0.521	0.078	7.13014E-51	KO	Dctn4	0.443
Isy1	4.04637E-55	1.416614244	0.622	0.12	1.25652E-50	KO	Isy1	0.502
Wdtn1	5.87078E-55	1.502572966	0.374	0.033	1.82305E-50	KO	Wdtn1	0.341
Tln1	7.69646E-55	1.175124187	0.777	0.195	2.38998E-50	KO	Tln1	0.582
Zc3hav1	9.95678E-55	1.135177111	0.832	0.221	3.09188E-50	KO	Zc3hav1	0.611
Osbpl3	1.09675E-54	1.376635254	0.601	0.112	3.40574E-50	KO	Osbpl3	0.489
Nlrc5	1.0989E-54	0.96400723	0.588	0.102	3.4124E-50	KO	Nlrc5	0.486
Btg3	1.13012E-54	1.960737692	0.374	0.034	3.50937E-50	KO	Btg3	0.34
Ost4	1.55487E-54	1.326889545	0.815	0.224	4.82833E-50	KO	Ost4	0.591
Pik3cd	1.62674E-54	1.318213062	0.601	0.112	5.05153E-50	KO	Pik3cd	0.489
Cyth4	1.66159E-54	1.071651817	0.685	0.141	5.15974E-50	KO	Cyth4	0.544
Zdhhc2	1.68597E-54	1.929819951	0.466	0.064	5.23545E-50	KO	Zdhhc2	0.402
Eea1	1.76405E-54	1.489202198	0.639	0.129	5.4779E-50	KO	Eea1	0.51
Cmip	1.80674E-54	1.189267281	0.529	0.083	5.61048E-50	KO	Cmip	0.446
Tap2	1.83169E-54	1.094382302	0.756	0.181	5.68793E-50	KO	Tap2	0.575
Cd8a	2.22603E-54	1.868094588	0.79	0.298	6.91249E-50	KO	Cd8a	0.492
Jak3	2.60408E-54	1.176730116	0.529	0.083	8.08644E-50	KO	Jak3	0.446
Sema4a	3.26922E-54	1.391675726	0.496	0.072	1.01519E-49	KO	Sema4a	0.424
Chst11	4.13969E-54	1.778638225	0.395	0.04	1.2855E-49	KO	Chst11	0.355
Il27ra	5.0173E-54	1.698983557	0.395	0.04	1.55802E-49	KO	Il27ra	0.355
Mettl23	5.56062E-54	1.00872205	0.71	0.153	1.72674E-49	KO	Mettl23	0.557
Esyt1	6.78235E-54	1.238750675	0.807	0.21	2.10612E-49	KO	Esyt1	0.597
Agfg1	7.0536E-54	1.080005448	0.714	0.162	2.19035E-49	KO	Agfg1	0.552
Ccnt1	7.59111E-54	1.085485349	0.613	0.113	2.35727E-49	KO	Ccnt1	0.5
Hdac1	9.29307E-54	1.3749765	0.643	0.132	2.88578E-49	KO	Hdac1	0.511
Tox4	1.04385E-53	1.132378757	0.576	0.102	3.24147E-49	KO	Tox4	0.474
Icam1	1.07642E-53	1.754749318	0.517	0.085	3.34262E-49	KO	Icam1	0.432
Icos	1.15923E-53	1.198866424	0.782	0.197	3.59975E-49	KO	Icos	0.585
Rgs3	1.26166E-53	1.296871681	0.513	0.079	3.91784E-49	KO	Rgs3	0.434
Fasl	1.2642E-53	1.598080335	0.391	0.039	3.92571E-49	KO	Fasl	0.352
Tbx21	1.5547E-53	1.578955019	0.445	0.056	4.82781E-49	KO	Tbx21	0.389
Gpd2	1.65071E-53	1.599087225	0.466	0.064	5.12595E-49	KO	Gpd2	0.402
Stk10	2.00378E-53	1.083992811	0.5	0.074	6.22233E-49	KO	Stk10	0.426
Dgat1	2.15453E-53	1.509108955	0.79	0.204	6.69047E-49	KO	Dgat1	0.586
Thy1	2.82657E-53	1.518750895	0.929	0.379	8.77735E-49	KO	Thy1	0.55
Uhrf2	3.00583E-53	1.58411895	0.853	0.292	9.334E-49	KO	Uhrf2	0.561
1810037117Ril	3.40535E-53	1.503184527	0.878	0.305	1.05746E-48	KO	1810037117Ril	0.573
Thap12	3.71806E-53	1.225264576	0.576	0.104	1.15457E-48	KO	Thap12	0.472
Fmnl1	3.93397E-53	1.20635086	0.828	0.236	1.22162E-48	KO	Fmnl1	0.592
Creb3l2	4.09327E-53	1.922017409	0.387	0.039	1.27108E-48	KO	Creb3l2	0.348
Arid5b	6.91614E-53	1.255579182	0.521	0.083	2.14767E-48	KO	Arid5b	0.438
Stat3	7.9509E-53	1.478408716	0.92	0.457	2.46899E-48	KO	Stat3	0.463
Dnajc1	9.12478E-53	1.046888009	0.613	0.115	2.83352E-48	KO	Dnajc1	0.498
Ttpal	1.26192E-52	1.742647191	0.336	0.026	3.91862E-48	KO	Ttpal	0.31
Baz1a	1.4758E-52	1.443644473	0.681	0.154	4.5828E-48	KO	Baz1a	0.527
Slc26a2	1.77783E-52	1.596157571	0.395	0.042	5.5207E-48	KO	Slc26a2	0.353

Klrc2	1.9763E-52	1.188152731	0.517	0.082	6.13701E-48	KO	Klrc2	0.435
Ppp1r12a	2.10916E-52	0.951253264	0.752	0.18	6.54959E-48	KO	Ppp1r12a	0.572
Map2k3	2.14829E-52	1.070005299	0.626	0.124	6.67107E-48	KO	Map2k3	0.502
Twsg1	2.71929E-52	2.029964478	0.378	0.038	8.44421E-48	KO	Twsg1	0.34
Hacd2	2.90002E-52	1.983638232	0.34	0.028	9.00543E-48	KO	Hacd2	0.312
Atp2b4	3.14401E-52	1.064861177	0.538	0.088	9.76308E-48	KO	Atp2b4	0.45
Csf1	3.94683E-52	2.171190958	0.391	0.042	1.22561E-47	KO	Csf1	0.349
Grccl10	4.78242E-52	0.874114799	0.517	0.082	1.48509E-47	KO	Grccl10	0.435
Gxylt1	6.11509E-52	1.215767675	0.555	0.097	1.89892E-47	KO	Gxylt1	0.458
Rnf125	6.91643E-52	1.18667691	0.517	0.083	2.14776E-47	KO	Rnf125	0.434
Myo1f	7.40715E-52	1.634875385	0.441	0.058	2.30014E-47	KO	Myo1f	0.383
Erp44	7.51719E-52	1.100325538	0.63	0.127	2.33431E-47	KO	Erp44	0.503
Tnrc18	9.16643E-52	1.360192086	0.382	0.039	2.84645E-47	KO	Tnrc18	0.343
Klf6	9.61375E-52	1.47432793	0.84	0.259	2.98536E-47	KO	Klf6	0.581
Dusp10	1.03566E-51	2.041917671	0.374	0.038	3.21602E-47	KO	Dusp10	0.336
Adipor2	1.25927E-51	1.171481316	0.613	0.122	3.91042E-47	KO	Adipor2	0.491
Klrc1	1.26506E-51	1.353257823	0.681	0.159	3.9284E-47	KO	Klrc1	0.522
Itih5	1.28076E-51	2.07175313	0.277	0.013	3.97715E-47	KO	Itih5	0.264
Smc3	1.45961E-51	1.258141577	0.651	0.14	4.53253E-47	KO	Smc3	0.511
Rnf157	1.46327E-51	1.812906301	0.458	0.065	4.54391E-47	KO	Rnf157	0.393
Rasal3	1.60305E-51	0.968469695	0.626	0.121	4.97796E-47	KO	Rasal3	0.505
Zap70	1.70969E-51	1.077873268	0.798	0.204	5.3091E-47	KO	Zap70	0.594
Trbc2	1.7167E-51	1.428764382	0.941	0.551	5.33087E-47	KO	Trbc2	0.39
Dusp5	1.75677E-51	1.239115836	0.702	0.163	5.45531E-47	KO	Dusp5	0.539
Fam102a	2.46725E-51	1.305065666	0.588	0.111	7.66157E-47	KO	Fam102a	0.477
Nedd9	2.55607E-51	1.003385352	0.626	0.123	7.93737E-47	KO	Nedd9	0.503
Uap1	2.59473E-51	1.643514237	0.475	0.071	8.05742E-47	KO	Uap1	0.404
Sp110	2.67814E-51	1.012723033	0.563	0.1	8.31642E-47	KO	Sp110	0.463
Rock1	3.49592E-51	1.097681009	0.748	0.187	1.08559E-46	KO	Rock1	0.561
Top1	3.94392E-51	1.037895469	0.727	0.169	1.2247E-46	KO	Top1	0.558
Lin54	3.99937E-51	1.790698259	0.483	0.076	1.24192E-46	KO	Lin54	0.407
S100a4	5.10613E-51	1.614034011	0.916	0.493	1.58561E-46	KO	S100a4	0.423
Chd4	5.21456E-51	1.198286467	0.84	0.247	1.61928E-46	KO	Chd4	0.593
Skil	5.92746E-51	1.143563541	0.588	0.112	1.84066E-46	KO	Skil	0.476
Pde4b	6.89091E-51	1.531718526	0.492	0.078	2.13984E-46	KO	Pde4b	0.414
Nsmaf	7.92251E-51	0.788830438	0.626	0.125	2.46018E-46	KO	Nsmaf	0.501
Lfng	7.94886E-51	1.575541886	0.433	0.057	2.46836E-46	KO	Lfng	0.376
Zbtb1	8.88934E-51	1.355777382	0.445	0.061	2.76041E-46	KO	Zbtb1	0.384
Elmo1	1.28477E-50	1.303460821	0.605	0.123	3.98961E-46	KO	Elmo1	0.482
Rsrc2	1.33876E-50	1.003874956	0.765	0.189	4.15724E-46	KO	Rsrc2	0.576
Ide	1.47405E-50	1.387321975	0.437	0.059	4.57737E-46	KO	Ide	0.378
Emsy	1.77034E-50	1.220097218	0.5	0.08	5.49744E-46	KO	Emsy	0.42
Dhrs7	1.77476E-50	1.051612979	0.462	0.065	5.51116E-46	KO	Dhrs7	0.397
Stk4	1.87113E-50	0.882052865	0.668	0.142	5.81042E-46	KO	Stk4	0.526
Rpa3	2.53737E-50	1.556264909	0.521	0.093	7.87928E-46	KO	Rpa3	0.428
Gramd3	2.6322E-50	1.389223588	0.58	0.112	8.17377E-46	KO	Gramd3	0.468
Itgal	2.74332E-50	1.303406704	0.832	0.255	8.51882E-46	KO	Itgal	0.577
Atg12	2.82147E-50	1.616688293	0.408	0.05	8.76151E-46	KO	Atg12	0.358
Pak2	3.1372E-50	1.157406786	0.79	0.218	9.74195E-46	KO	Pak2	0.572
Il2rb	3.62033E-50	1.38134281	0.937	0.528	1.12422E-45	KO	Il2rb	0.409
Prpf8	3.70603E-50	1.032227241	0.622	0.13	1.15083E-45	KO	Prpf8	0.492

Stap1	3.71592E-50	1.295776221	0.483	0.076	1.15391E-45	KO	Stap1	0.407
Sp100	4.42027E-50	1.01029826	0.697	0.164	1.37263E-45	KO	Sp100	0.533
Cetn2	4.85224E-50	1.124039914	0.592	0.114	1.50676E-45	KO	Cetn2	0.478
Grb2	6.0993E-50	1.204020633	0.752	0.195	1.89402E-45	KO	Grb2	0.557
Spn	8.48325E-50	0.960205057	0.739	0.18	2.6343E-45	KO	Spn	0.559
Nfkbiz	1.81141E-49	1.448265297	0.634	0.141	5.62498E-45	KO	Nfkbiz	0.493
Fyn	1.97015E-49	0.97000333	0.765	0.193	6.1179E-45	KO	Fyn	0.572
Fam129a	2.18657E-49	1.280674642	0.508	0.087	6.78995E-45	KO	Fam129a	0.421
Ralbp1	2.35855E-49	1.098601004	0.563	0.106	7.32399E-45	KO	Ralbp1	0.457
Crbn	2.37661E-49	1.214604914	0.622	0.136	7.38008E-45	KO	Crbn	0.486
Rap1gds1	2.3944E-49	0.705298156	0.471	0.069	7.43534E-45	KO	Rap1gds1	0.402
Glipr2	2.75516E-49	1.040374772	0.525	0.09	8.55559E-45	KO	Glipr2	0.435
Uhmk1	3.3368E-49	0.91208099	0.555	0.1	1.03618E-44	KO	Uhmk1	0.455
Sdf2	3.51565E-49	0.736519782	0.576	0.107	1.09171E-44	KO	Sdf2	0.469
Ifrd1	3.77303E-49	1.312994937	0.651	0.152	1.17164E-44	KO	Ifrd1	0.499
Rpl27-ps3	3.94111E-49	1.080928521	0.504	0.084	1.22383E-44	KO	Rpl27-ps3	0.42
Gng2	4.13243E-49	1.286022907	0.765	0.214	1.28325E-44	KO	Gng2	0.551
Plekha2	4.15107E-49	0.894735685	0.681	0.156	1.28903E-44	KO	Plekha2	0.525
Igf2r	4.62358E-49	1.341351038	0.466	0.071	1.43576E-44	KO	Igf2r	0.395
Gzmb	4.66214E-49	1.907543261	0.739	0.249	1.44773E-44	KO	Gzmb	0.49
Znrf2	6.49976E-49	0.817457966	0.563	0.105	2.01837E-44	KO	Znrf2	0.458
Tgif1	7.27787E-49	0.976589308	0.508	0.086	2.26E-44	KO	Tgif1	0.422
Ubxn11	7.34573E-49	1.396721828	0.378	0.042	2.28107E-44	KO	Ubxn11	0.336
Elk3	7.68587E-49	1.742382901	0.462	0.073	2.38669E-44	KO	Elk3	0.389
Lta4h	8.50877E-49	1.055175983	0.508	0.087	2.64223E-44	KO	Lta4h	0.421
Ugcg	8.64802E-49	1.150310569	0.735	0.188	2.68547E-44	KO	Ugcg	0.547
Adora2a	8.89428E-49	1.874666214	0.408	0.053	2.76194E-44	KO	Adora2a	0.355
Lrrc8c	1.09691E-48	1.391974122	0.466	0.072	3.40623E-44	KO	Lrrc8c	0.394
Atp8b4	1.11438E-48	1.123591628	0.517	0.091	3.46048E-44	KO	Atp8b4	0.426
Ahsa1	1.25106E-48	1.098385311	0.605	0.125	3.8849E-44	KO	Ahsa1	0.48
Acsl4	1.34051E-48	1.168250555	0.487	0.079	4.16269E-44	KO	Acsl4	0.408
Med14	1.48422E-48	1.006455024	0.479	0.076	4.60893E-44	KO	Med14	0.403
Usp25	1.51067E-48	1.066420399	0.597	0.122	4.69109E-44	KO	Usp25	0.475
Selplg	1.51736E-48	1.299039811	0.916	0.353	4.71186E-44	KO	Selplg	0.563
Copb2	1.55926E-48	0.9420181	0.571	0.112	4.84196E-44	KO	Copb2	0.459
Dusp1	1.58121E-48	1.177840329	0.828	0.249	4.91013E-44	KO	Dusp1	0.579
4930523C07R	1.60052E-48	0.946236065	0.752	0.189	4.97008E-44	KO	4930523C07R	0.563
Smarcc1	1.7313E-48	1.400327021	0.521	0.093	5.37619E-44	KO	Smarcc1	0.428
Irf2	1.77224E-48	0.798540104	0.517	0.088	5.50335E-44	KO	Irf2	0.429
Mxd1	1.81781E-48	1.057715625	0.542	0.098	5.64484E-44	KO	Mxd1	0.444
Aida	2.13321E-48	1.280999075	0.387	0.045	6.62425E-44	KO	Aida	0.342
Msi2	2.63998E-48	0.941447132	0.693	0.163	8.19794E-44	KO	Msi2	0.53
Gm19585	2.91215E-48	1.418579953	0.454	0.07	9.04309E-44	KO	Gm19585	0.384
Sec23b	3.51875E-48	1.182356923	0.504	0.086	1.09268E-43	KO	Sec23b	0.418
Anapc11	3.54965E-48	1.009622271	0.601	0.121	1.10227E-43	KO	Anapc11	0.48
Sdhd	4.38447E-48	1.01885965	0.609	0.127	1.36151E-43	KO	Sdhd	0.482
Cdk6	5.35783E-48	1.428550882	0.761	0.221	1.66377E-43	KO	Cdk6	0.54
Larp7	6.30066E-48	1.249763366	0.517	0.093	1.95654E-43	KO	Larp7	0.424
Dgkd	6.49592E-48	1.155149598	0.382	0.044	2.01718E-43	KO	Dgkd	0.338
Glo1	6.99999E-48	0.9170508	0.588	0.119	2.17371E-43	KO	Glo1	0.469
Ndfip1	8.49792E-48	1.044801791	0.786	0.215	2.63886E-43	KO	Ndfip1	0.571

Prkcq	8.71895E-48	0.701345418	0.441	0.062	2.7075E-43	KO	Prkcq	0.379
Pigs	9.22229E-48	1.263982767	0.45	0.067	2.8638E-43	KO	Pigs	0.383
Ep400	9.50296E-48	0.922703482	0.576	0.113	2.95095E-43	KO	Ep400	0.463
Iqgap1	9.61194E-48	1.308498406	0.908	0.35	2.9848E-43	KO	Iqgap1	0.558
Metrn1	1.26377E-47	1.162478536	0.374	0.042	3.92438E-43	KO	Metrn1	0.332
Hcfc1	1.29596E-47	1.459763385	0.471	0.077	4.02434E-43	KO	Hcfc1	0.394
Tmed5	1.39097E-47	1.043640106	0.697	0.17	4.31937E-43	KO	Tmed5	0.527
Usp38	1.39725E-47	1.004645909	0.475	0.076	4.33887E-43	KO	Usp38	0.399
Nfkb1a	2.31799E-47	1.886045994	0.836	0.336	7.19805E-43	KO	Nfkb1a	0.5
Capza1	2.62864E-47	0.959355978	0.824	0.233	8.16273E-43	KO	Capza1	0.591
Golph3	2.78568E-47	1.119409262	0.542	0.103	8.65036E-43	KO	Golph3	0.439
Ppm1h	2.9471E-47	1.203962036	0.395	0.05	9.15162E-43	KO	Ppm1h	0.345
Mef2d	3.04338E-47	0.739380233	0.601	0.122	9.4506E-43	KO	Mef2d	0.479
Rab1b	3.11646E-47	0.819092071	0.58	0.114	9.67753E-43	KO	Rab1b	0.466
Taok3	3.62304E-47	0.92001148	0.45	0.068	1.12506E-42	KO	Taok3	0.382
Arpc4	3.66966E-47	1.059383293	0.765	0.205	1.13954E-42	KO	Arpc4	0.56
Pdcd1lg2	3.73662E-47	1.301241175	0.424	0.06	1.16033E-42	KO	Pdcd1lg2	0.364
Cops4	3.78021E-47	0.813071889	0.571	0.111	1.17387E-42	KO	Cops4	0.46
Ptpn7	3.88362E-47	1.041826637	0.597	0.124	1.20598E-42	KO	Ptpn7	0.473
Cd200r1	4.25154E-47	1.972608942	0.294	0.021	1.32023E-42	KO	Cd200r1	0.273
Man1a2	6.92257E-47	0.998806233	0.471	0.075	2.14967E-42	KO	Man1a2	0.396
Ier5	6.94083E-47	0.893785712	0.576	0.116	2.15533E-42	KO	Ier5	0.46
Syt11	7.38035E-47	1.542728971	0.433	0.064	2.29182E-42	KO	Syt11	0.369
Hnrnp1	7.77646E-47	0.807291581	0.668	0.154	2.41482E-42	KO	Hnrnp1	0.514
Med13l	8.61485E-47	1.621995642	0.387	0.049	2.67517E-42	KO	Med13l	0.338
Uggt1	9.14702E-47	0.989540994	0.45	0.068	2.84042E-42	KO	Uggt1	0.382
Ahr	9.17234E-47	1.676373201	0.282	0.018	2.84829E-42	KO	Ahr	0.264
Tsc22d4	1.08386E-46	0.740403724	0.723	0.175	3.36571E-42	KO	Tsc22d4	0.548
Plek	1.10776E-46	1.25101685	0.66	0.16	3.43993E-42	KO	Plek	0.5
Dnah8	1.13482E-46	2.434031123	0.265	0.014	3.52397E-42	KO	Dnah8	0.251
Slc3a2	1.19762E-46	1.093112667	0.849	0.266	3.71898E-42	KO	Slc3a2	0.583
Raf1	1.22421E-46	0.893699545	0.525	0.096	3.80154E-42	KO	Raf1	0.429
Casp4	1.29896E-46	1.668226681	0.366	0.042	4.03365E-42	KO	Casp4	0.324
Spag9	1.32722E-46	0.948982551	0.655	0.147	4.1214E-42	KO	Spag9	0.508
Wac	1.52723E-46	0.876391282	0.605	0.128	4.74251E-42	KO	Wac	0.477
Pip4k2a	1.7199E-46	0.92588364	0.45	0.069	5.34081E-42	KO	Pip4k2a	0.381
Ikzf3	1.73023E-46	1.119235856	0.618	0.139	5.3729E-42	KO	Ikzf3	0.479
Ell2	1.81818E-46	1.992501878	0.324	0.03	5.64599E-42	KO	Ell2	0.294
Map4	1.87691E-46	1.027951021	0.492	0.085	5.82837E-42	KO	Map4	0.407
Abi1	1.90829E-46	0.866735214	0.567	0.113	5.92582E-42	KO	Abi1	0.454
Btg2	1.92609E-46	1.11877429	0.697	0.169	5.98109E-42	KO	Btg2	0.528
Psm11	2.09663E-46	1.075051978	0.613	0.137	6.51067E-42	KO	Psm11	0.476
Ndel1	2.27274E-46	1.423818924	0.437	0.066	7.05755E-42	KO	Ndel1	0.371
Slc16a6	2.2794E-46	1.389386285	0.403	0.055	7.07823E-42	KO	Slc16a6	0.348
Tab2	2.46558E-46	0.871347326	0.685	0.16	7.65636E-42	KO	Tab2	0.525
Phf6	2.46893E-46	1.285799102	0.429	0.062	7.66676E-42	KO	Phf6	0.367
Trrap	2.48771E-46	0.86221981	0.429	0.062	7.72508E-42	KO	Trrap	0.367
Zfand3	2.58022E-46	1.081843685	0.399	0.052	8.01235E-42	KO	Zfand3	0.347
Cyfp2	2.60121E-46	0.931046692	0.697	0.17	8.07755E-42	KO	Cyfp2	0.527
Lcp2	2.84584E-46	1.021232788	0.643	0.146	8.83719E-42	KO	Lcp2	0.497
Tnfsf10	2.91446E-46	1.771726309	0.336	0.034	9.05028E-42	KO	Tnfsf10	0.302

Traf4	3.36774E-46	1.30894488	0.445	0.07	1.04578E-41	KO	Traf4	0.375
AC163354.1	3.50837E-46	1.297660564	0.441	0.066	1.08945E-41	KO	AC163354.1	0.375
Zcchc6	3.53911E-46	0.800339193	0.605	0.129	1.099E-41	KO	Zcchc6	0.476
Chic2	3.63054E-46	0.809649831	0.647	0.143	1.12739E-41	KO	Chic2	0.504
Ogdh	3.67099E-46	1.017078579	0.567	0.114	1.13995E-41	KO	Ogdh	0.453
Ubtf	3.75902E-46	1.066140899	0.613	0.134	1.16729E-41	KO	Ubtf	0.479
Itsn2	4.07133E-46	0.991061254	0.555	0.112	1.26427E-41	KO	Itsn2	0.443
Ptpa	4.88276E-46	1.332469972	0.475	0.079	1.51624E-41	KO	Ptpa	0.396
Zc3h18	5.13728E-46	0.95627874	0.391	0.05	1.59528E-41	KO	Zc3h18	0.341
Psemb9	5.38571E-46	1.222778728	0.891	0.329	1.67242E-41	KO	Psemb9	0.562
H2-K1	5.93527E-46	0.933120317	0.996	0.916	1.84308E-41	KO	H2-K1	0.08
Arid1a	6.37821E-46	0.840706351	0.66	0.152	1.98063E-41	KO	Arid1a	0.508
Gimap3	6.44207E-46	0.96539181	0.731	0.187	2.00046E-41	KO	Gimap3	0.544
Madd	6.88458E-46	0.815331839	0.534	0.099	2.13787E-41	KO	Madd	0.435
Rpl36al	7.38535E-46	1.05671258	0.887	0.291	2.29337E-41	KO	Rpl36al	0.596
Tshz1	1.04691E-45	1.186352287	0.45	0.071	3.25098E-41	KO	Tshz1	0.379
Sigirr	1.11392E-45	0.92038795	0.349	0.038	3.45907E-41	KO	Sigirr	0.311
Eif3c	1.12286E-45	1.167427529	0.857	0.28	3.48681E-41	KO	Eif3c	0.577
Dbnl	1.24402E-45	0.85732565	0.63	0.14	3.86306E-41	KO	Dbnl	0.49
Brd2	1.67195E-45	0.767142445	0.702	0.174	5.1919E-41	KO	Brd2	0.528
Atxn2l	1.72338E-45	0.926884445	0.605	0.134	5.35163E-41	KO	Atxn2l	0.471
Rtn3	1.79563E-45	1.147096794	0.609	0.137	5.57596E-41	KO	Rtn3	0.472
Serpinb9	1.84938E-45	1.411346202	0.702	0.202	5.74289E-41	KO	Serpinb9	0.5
Pitpnc1	1.87515E-45	0.900069887	0.521	0.097	5.8229E-41	KO	Pitpnc1	0.424
Atad2	1.88088E-45	1.228245136	0.622	0.146	5.84071E-41	KO	Atad2	0.476
St8sia4	2.38076E-45	0.851818929	0.458	0.073	7.39298E-41	KO	St8sia4	0.385
Polr2m	2.63829E-45	0.801751806	0.576	0.117	8.19269E-41	KO	Polr2m	0.459
Gpr174	2.78745E-45	1.346324826	0.458	0.076	8.65588E-41	KO	Gpr174	0.382
Rab11fip4	3.1665E-45	2.511884874	0.298	0.025	9.83294E-41	KO	Rab11fip4	0.273
Rpl13a	3.28415E-45	1.02391446	0.899	0.309	1.01983E-40	KO	Rpl13a	0.59
D16Ertd472e	4.15441E-45	1.118631373	0.761	0.215	1.29007E-40	KO	D16Ertd472e	0.546
H2-M3	4.39221E-45	1.092119102	0.429	0.064	1.36391E-40	KO	H2-M3	0.365
Josd1	5.14346E-45	2.234508765	0.294	0.024	1.5972E-40	KO	Josd1	0.27
Calm1	5.16309E-45	1.14089737	0.958	0.582	1.60329E-40	KO	Calm1	0.376
Gimap7	5.71038E-45	1.117117207	0.542	0.11	1.77324E-40	KO	Gimap7	0.432
Fhl2	5.75408E-45	1.555019027	0.328	0.034	1.78681E-40	KO	Fhl2	0.294
Aco2	6.81721E-45	1.047849369	0.559	0.114	2.11695E-40	KO	Aco2	0.445
Carnmt1	7.0803E-45	1.044566365	0.538	0.106	2.19864E-40	KO	Carnmt1	0.432
Prex1	8.06867E-45	0.899790628	0.571	0.12	2.50556E-40	KO	Prex1	0.451
Smarcd2	8.77171E-45	0.892803018	0.492	0.087	2.72388E-40	KO	Smarcd2	0.405
Il2ra	9.71181E-45	2.038864802	0.45	0.079	3.01581E-40	KO	Il2ra	0.371
Ptpn6	1.02727E-44	1.14684577	0.546	0.112	3.18999E-40	KO	Ptpn6	0.434
Gm29243	1.11508E-44	1.584025793	0.298	0.025	3.46267E-40	KO	Gm29243	0.273
Zcchc14	1.12601E-44	3.701714946	0.21	0.005	3.49661E-40	KO	Zcchc14	0.205
Eif2s3x	1.16872E-44	0.988391575	0.706	0.181	3.62923E-40	KO	Eif2s3x	0.525
Zfp36	1.21541E-44	1.289729895	0.517	0.1	3.77423E-40	KO	Zfp36	0.417
Aplp2	1.27455E-44	0.80403176	0.492	0.088	3.95786E-40	KO	Aplp2	0.404
Ddx6	1.27735E-44	0.757478166	0.786	0.212	3.96656E-40	KO	Ddx6	0.574
Slamf1	1.59535E-44	1.808476485	0.353	0.041	4.95405E-40	KO	Slamf1	0.312
Susd6	1.64703E-44	1.158228657	0.336	0.036	5.11453E-40	KO	Susd6	0.3
Herc2	1.67964E-44	1.064760206	0.391	0.053	5.21579E-40	KO	Herc2	0.338

Sf3b2	1.68024E-44	1.006855339	0.815	0.245	5.21766E-40	KO	Sf3b2	0.57
Lrrfip1	1.70079E-44	0.793274836	0.685	0.17	5.28145E-40	KO	Lrrfip1	0.515
Abcb1b	1.94005E-44	1.545182144	0.42	0.064	6.02443E-40	KO	Abcb1b	0.356
Gpr68	2.00716E-44	1.43772158	0.429	0.066	6.23283E-40	KO	Gpr68	0.363
Cebpg	2.0092E-44	0.975922243	0.382	0.05	6.23918E-40	KO	Cebpg	0.332
Cd274	2.0136E-44	1.60478803	0.315	0.03	6.25285E-40	KO	Cd274	0.285
Polr2l	2.2769E-44	1.08874015	0.454	0.075	7.07047E-40	KO	Polr2l	0.379
Mta1	2.63255E-44	0.971215991	0.496	0.089	8.17487E-40	KO	Mta1	0.407
Slc35a4	2.66684E-44	0.818125758	0.42	0.063	8.28133E-40	KO	Slc35a4	0.357
Sept11	2.76387E-44	0.917293693	0.748	0.206	8.58265E-40	KO	Sept11	0.542
Dock11	2.88329E-44	0.969308977	0.496	0.09	8.95348E-40	KO	Dock11	0.406
Gsk3b	3.04336E-44	0.781360351	0.639	0.144	9.45056E-40	KO	Gsk3b	0.495
Kpna4	3.68333E-44	0.878963045	0.63	0.145	1.14378E-39	KO	Kpna4	0.485
Sema4d	3.78763E-44	0.946752867	0.697	0.18	1.17617E-39	KO	Sema4d	0.517
Hnrnpul1	3.79146E-44	0.945063849	0.706	0.181	1.17736E-39	KO	Hnrnpul1	0.525
Virma	3.81272E-44	1.090887458	0.403	0.058	1.18396E-39	KO	Virma	0.345
Psm1	4.35574E-44	0.83829566	0.609	0.137	1.35259E-39	KO	Psm1	0.472
Cd244	4.37034E-44	1.923888377	0.273	0.019	1.35712E-39	KO	Cd244	0.254
Dusp14	4.46019E-44	2.360729832	0.34	0.039	1.38502E-39	KO	Dusp14	0.301
Eif4g3	4.92116E-44	0.834604736	0.58	0.123	1.52817E-39	KO	Eif4g3	0.457
Glt1	5.15986E-44	1.107846816	0.626	0.146	1.60229E-39	KO	Glt1	0.48
Cd3g	5.88427E-44	1.274669343	0.929	0.539	1.82724E-39	KO	Cd3g	0.39
Hscb	6.12329E-44	1.222825151	0.445	0.072	1.90146E-39	KO	Hscb	0.373
Baz1b	6.16563E-44	0.955511324	0.601	0.135	1.91461E-39	KO	Baz1b	0.466
Aak1	6.9918E-44	0.87901321	0.504	0.094	2.17116E-39	KO	Aak1	0.41
Arhgap30	7.62049E-44	0.883336457	0.803	0.223	2.36639E-39	KO	Arhgap30	0.58
Rab5a	8.94563E-44	0.93422998	0.454	0.075	2.77789E-39	KO	Rab5a	0.379
Erap1	9.2684E-44	0.801448292	0.471	0.082	2.87812E-39	KO	Erap1	0.389
Vps36	1.01639E-43	0.946294417	0.605	0.139	3.15619E-39	KO	Vps36	0.466
Mxd4	1.03491E-43	0.731116775	0.487	0.087	3.21371E-39	KO	Mxd4	0.4
Vasp	1.18236E-43	1.074227264	0.828	0.262	3.67159E-39	KO	Vasp	0.566
Nab1	1.32008E-43	0.833526179	0.601	0.134	4.09925E-39	KO	Nab1	0.467
Smarca4	1.44732E-43	0.747650981	0.609	0.138	4.49435E-39	KO	Smarca4	0.471
Exoc4	1.59469E-43	0.871299019	0.424	0.065	4.95198E-39	KO	Exoc4	0.359
Hist1h2ap	1.6871E-43	3.269938379	0.626	0.19	5.23894E-39	KO	Hist1h2ap	0.436
Lcp1	1.69751E-43	1.12739671	0.958	0.512	5.27129E-39	KO	Lcp1	0.446
Zdhhc18	2.02581E-43	0.939066318	0.786	0.226	6.29075E-39	KO	Zdhhc18	0.56
Cdk17	2.31193E-43	0.818157887	0.492	0.09	7.17924E-39	KO	Cdk17	0.402
Rassf5	2.33109E-43	0.745534699	0.559	0.117	7.23872E-39	KO	Rassf5	0.442
Mrps21	2.49909E-43	1.020269261	0.765	0.215	7.76044E-39	KO	Mrps21	0.55
Gsk3a	2.50304E-43	1.058869205	0.445	0.074	7.77269E-39	KO	Gsk3a	0.371
Gfpt1	3.25532E-43	0.8800135	0.466	0.082	1.01087E-38	KO	Gfpt1	0.384
Cers2	3.34036E-43	1.077525566	0.559	0.119	1.03728E-38	KO	Cers2	0.44
Tes	3.43267E-43	0.754210532	0.647	0.152	1.06595E-38	KO	Tes	0.495
Gatad2b	3.98119E-43	0.93921854	0.588	0.131	1.23628E-38	KO	Gatad2b	0.457
Cdipt	4.2477E-43	0.841438846	0.492	0.091	1.31904E-38	KO	Cdipt	0.401
Raph1	4.57774E-43	1.088501948	0.492	0.091	1.42153E-38	KO	Raph1	0.401
Smc1a	4.6354E-43	0.977488137	0.672	0.173	1.43943E-38	KO	Smc1a	0.499
Foxo1	4.6881E-43	0.910637425	0.445	0.075	1.45579E-38	KO	Foxo1	0.37
Rab27a	4.80547E-43	0.774675628	0.525	0.104	1.49224E-38	KO	Rab27a	0.421
Irak2	4.86432E-43	0.950092565	0.399	0.058	1.51052E-38	KO	Irak2	0.341

Trim26	4.9711E-43	1.146360687	0.408	0.061	1.54367E-38	KO	Trim26	0.347
Smap1	5.37663E-43	1.240298046	0.542	0.114	1.6696E-38	KO	Smap1	0.428
Stat4	5.45655E-43	0.984356301	0.639	0.156	1.69442E-38	KO	Stat4	0.483
Chtf8	5.6773E-43	1.041443385	0.382	0.053	1.76297E-38	KO	Chtf8	0.329
Zgpat	5.79014E-43	1.351591195	0.324	0.035	1.79801E-38	KO	Zgpat	0.289
Cnot6l	6.64985E-43	0.948339369	0.685	0.179	2.06498E-38	KO	Cnot6l	0.506
Fli1	6.83135E-43	0.748981291	0.555	0.116	2.12134E-38	KO	Fli1	0.439
Ncoa2	8.69919E-43	0.991946705	0.5	0.096	2.70136E-38	KO	Ncoa2	0.404
Snrnp200	8.88728E-43	0.874591799	0.508	0.096	2.75977E-38	KO	Snrnp200	0.412
Eprs	8.94662E-43	1.049363643	0.626	0.151	2.77819E-38	KO	Eprs	0.475
Oxct1	1.04997E-42	0.885204582	0.563	0.121	3.26046E-38	KO	Oxct1	0.442
Socs1	1.10196E-42	1.08846125	0.391	0.056	3.42193E-38	KO	Socs1	0.335
Cdip1	1.13806E-42	1.253246191	0.336	0.038	3.53401E-38	KO	Cdip1	0.298
Ube3a	1.21779E-42	0.742197908	0.651	0.157	3.78159E-38	KO	Ube3a	0.494
Ahcyl1	1.22167E-42	0.888484042	0.479	0.088	3.79364E-38	KO	Ahcyl1	0.391
Hikeshi	1.23584E-42	1.098023913	0.45	0.078	3.83764E-38	KO	Hikeshi	0.372
Ganab	1.25489E-42	0.864642818	0.454	0.079	3.89681E-38	KO	Ganab	0.375
Rab8a	1.27706E-42	0.723249716	0.668	0.162	3.96567E-38	KO	Rab8a	0.506
Capn1	1.27883E-42	0.827291263	0.525	0.103	3.97115E-38	KO	Capn1	0.422
Ragef1	1.40253E-42	0.71561135	0.5	0.096	4.35529E-38	KO	Ragef1	0.404
Cr1l	1.48438E-42	0.721070803	0.571	0.123	4.60944E-38	KO	Cr1l	0.448
Rangap1	1.68942E-42	1.044783393	0.55	0.118	5.24617E-38	KO	Rangap1	0.432
Wbp2	1.80334E-42	0.880952465	0.479	0.087	5.59992E-38	KO	Wbp2	0.392
Flii	1.89983E-42	0.815272837	0.542	0.111	5.89955E-38	KO	Flii	0.431
Irs2	2.00706E-42	2.430871612	0.265	0.019	6.23252E-38	KO	Irs2	0.246
Rasgef1a	2.15295E-42	4.362112979	0.185	0.002	6.68556E-38	KO	Rasgef1a	0.183
Hspd1	2.20116E-42	1.059019689	0.773	0.229	6.83527E-38	KO	Hspd1	0.544
Ppp2r5c	2.47127E-42	0.720315002	0.664	0.164	7.67402E-38	KO	Ppp2r5c	0.5
Gm16286	2.54534E-42	0.837359419	0.651	0.159	7.90404E-38	KO	Gm16286	0.492
Rps6ka1	2.57512E-42	0.88846992	0.508	0.099	7.99652E-38	KO	Rps6ka1	0.409
Ep300	2.62266E-42	0.774112496	0.517	0.103	8.14414E-38	KO	Ep300	0.414
Traf1	2.72082E-42	1.444683785	0.794	0.282	8.44895E-38	KO	Traf1	0.512
Chd1	3.05318E-42	0.849927511	0.445	0.075	9.48104E-38	KO	Chd1	0.37
Cmpk1	3.73363E-42	0.886283397	0.605	0.143	1.1594E-37	KO	Cmpk1	0.462
Akt2	3.80364E-42	1.021192881	0.441	0.075	1.18115E-37	KO	Akt2	0.366
Elmo2	4.28349E-42	0.958606781	0.328	0.037	1.33015E-37	KO	Elmo2	0.291
Cd200	4.59062E-42	1.537871337	0.454	0.083	1.42553E-37	KO	Cd200	0.371
Trp53	4.617E-42	0.94090097	0.609	0.144	1.43372E-37	KO	Trp53	0.465
Slc1a5	4.89749E-42	0.904044563	0.601	0.138	1.52082E-37	KO	Slc1a5	0.463
Tmx3	5.22818E-42	1.044187798	0.437	0.074	1.62351E-37	KO	Tmx3	0.363
Ahnak	5.72076E-42	1.026890909	0.878	0.299	1.77647E-37	KO	Ahnak	0.579
Man2b2	5.73813E-42	2.618801101	0.231	0.012	1.78186E-37	KO	Man2b2	0.219
Cebpz	5.7636E-42	1.130578535	0.504	0.1	1.78977E-37	KO	Cebpz	0.404
Bet1	6.06009E-42	1.332784294	0.382	0.055	1.88184E-37	KO	Bet1	0.327
Cd86	6.60504E-42	2.228507939	0.239	0.013	2.05106E-37	KO	Cd86	0.226
Pdia4	6.73318E-42	1.068018582	0.441	0.076	2.09085E-37	KO	Pdia4	0.365
Hsph1	7.07656E-42	1.552662185	0.391	0.06	2.19748E-37	KO	Hsph1	0.331
Rnps1	7.50596E-42	0.920414599	0.55	0.119	2.33082E-37	KO	Rnps1	0.431
Atic	8.20164E-42	0.954805456	0.391	0.058	2.54686E-37	KO	Atic	0.333
Pafah1b1	8.73004E-42	0.816709994	0.786	0.23	2.71094E-37	KO	Pafah1b1	0.556
Cx3cr1	8.9494E-42	2.045435844	0.319	0.036	2.77906E-37	KO	Cx3cr1	0.283

Emd	9.01806E-42	0.880965597	0.664	0.169	2.80038E-37	KO	Emd	0.495
Ubr4	9.15754E-42	0.975127393	0.433	0.072	2.84369E-37	KO	Ubr4	0.361
Synrg	9.18072E-42	1.314830232	0.311	0.033	2.85089E-37	KO	Synrg	0.278
Mis18a	9.27905E-42	1.478476061	0.315	0.034	2.88142E-37	KO	Mis18a	0.281
Pik3r1	9.40282E-42	0.720310129	0.634	0.153	2.91986E-37	KO	Pik3r1	0.481
Gnpda1	9.69233E-42	1.289267729	0.315	0.034	3.00976E-37	KO	Gnpda1	0.281
Eif4ebp2	1.00808E-41	0.70377388	0.542	0.112	3.13038E-37	KO	Eif4ebp2	0.43
H2-D1	1.00841E-41	0.872596006	0.983	0.838	3.13142E-37	KO	H2-D1	0.145
Dot1l	1.08967E-41	1.218249011	0.378	0.054	3.38374E-37	KO	Dot1l	0.324
Ptch1	1.11895E-41	1.716498007	0.378	0.056	3.47469E-37	KO	Ptch1	0.322
Snx18	1.17948E-41	0.948715918	0.529	0.111	3.66263E-37	KO	Snx18	0.418
Smap2	1.36217E-41	0.700456606	0.559	0.119	4.22995E-37	KO	Smap2	0.44
Bcl2a1d	1.84381E-41	1.304776768	0.739	0.233	5.72559E-37	KO	Bcl2a1d	0.506
Tgoln1	1.88677E-41	0.831104316	0.643	0.155	5.859E-37	KO	Tgoln1	0.488
Havcr2	1.89073E-41	1.129053954	0.592	0.139	5.87128E-37	KO	Havcr2	0.453
Rab8b	1.89415E-41	0.904503327	0.79	0.232	5.8819E-37	KO	Rab8b	0.558
Cnppd1	2.18784E-41	0.875266761	0.454	0.081	6.7939E-37	KO	Cnppd1	0.373
Rbm14	2.29523E-41	1.50203326	0.361	0.049	7.12738E-37	KO	Rbm14	0.312
Tapbp	2.38513E-41	1.009931647	0.819	0.259	7.40655E-37	KO	Tapbp	0.56
Hcst	2.71132E-41	1.052889406	0.929	0.355	8.41947E-37	KO	Hcst	0.574
Erh	2.74471E-41	1.181351849	0.731	0.212	8.52314E-37	KO	Erh	0.519
Rab10	2.79073E-41	0.947089925	0.689	0.184	8.66604E-37	KO	Rab10	0.505
Itpr2	2.90095E-41	1.006053731	0.324	0.037	9.00832E-37	KO	Itpr2	0.287
Eif4e3	2.96487E-41	1.44388182	0.303	0.031	9.20682E-37	KO	Eif4e3	0.272
Notch1	2.98334E-41	0.921323572	0.445	0.078	9.26417E-37	KO	Notch1	0.367
Pabpn1	3.01305E-41	0.837837489	0.42	0.068	9.35644E-37	KO	Pabpn1	0.352
Actb	3.10433E-41	0.849805107	0.996	0.971	9.63988E-37	KO	Actb	0.025
Rad21	3.21106E-41	1.130706532	0.672	0.185	9.97129E-37	KO	Rad21	0.487
Slc30a9	3.35341E-41	0.783849719	0.508	0.101	1.04133E-36	KO	Slc30a9	0.407
Tstd3	3.42103E-41	1.77023734	0.307	0.033	1.06233E-36	KO	Tstd3	0.274
Khsrp	3.58288E-41	0.723493601	0.571	0.127	1.11259E-36	KO	Khsrp	0.444
Runx1	4.19336E-41	1.355667532	0.403	0.064	1.30217E-36	KO	Runx1	0.339
Kctd10	4.43466E-41	1.210182962	0.391	0.059	1.3771E-36	KO	Kctd10	0.332
Plac8	4.45942E-41	1.963103193	0.66	0.238	1.38478E-36	KO	Plac8	0.422
Elf1	5.62851E-41	0.70691299	0.769	0.218	1.74782E-36	KO	Elf1	0.551
Sh2d1a	5.82462E-41	0.918034639	0.613	0.147	1.80872E-36	KO	Sh2d1a	0.466
Wdr95	6.00106E-41	1.649547642	0.345	0.044	1.86351E-36	KO	Wdr95	0.301
D030056L22R	6.14468E-41	1.667287968	0.315	0.036	1.90811E-36	KO	D030056L22R	0.279
Purb	6.20545E-41	0.971356958	0.824	0.261	1.92698E-36	KO	Purb	0.563
Mfap1a	6.38219E-41	1.694291103	0.328	0.039	1.98186E-36	KO	Mfap1a	0.289
Atp10a	8.80154E-41	0.915420345	0.408	0.065	2.73314E-36	KO	Atp10a	0.343
Ptpn2	9.66085E-41	1.355629806	0.437	0.078	2.99998E-36	KO	Ptpn2	0.359
Nfatc1	1.05864E-40	1.001749801	0.504	0.103	3.2874E-36	KO	Nfatc1	0.401
Srgap3	1.06612E-40	1.740695054	0.269	0.022	3.31062E-36	KO	Srgap3	0.247
Dusp2	1.07088E-40	1.147157311	0.668	0.178	3.32541E-36	KO	Dusp2	0.49
Fam110a	1.2494E-40	1.090847713	0.433	0.076	3.87978E-36	KO	Fam110a	0.357
Chtop	1.28794E-40	0.783669691	0.584	0.137	3.99944E-36	KO	Chtop	0.447
Dpm1	1.3206E-40	1.13312898	0.357	0.048	4.10084E-36	KO	Dpm1	0.309
Ggta1	1.32513E-40	1.695225772	0.315	0.036	4.11493E-36	KO	Ggta1	0.279
Setd1b	1.58252E-40	1.500520568	0.328	0.039	4.9142E-36	KO	Setd1b	0.289
Gls	1.62063E-40	0.829410749	0.803	0.243	5.03253E-36	KO	Gls	0.56

Gmfb	1.6231E-40	0.932442144	0.513	0.107	5.0402E-36	KO	Gmfb	0.406
Epsti1	1.62639E-40	0.861638992	0.651	0.164	5.05043E-36	KO	Epsti1	0.487
Cdc14a	1.62781E-40	1.086080123	0.349	0.046	5.05483E-36	KO	Cdc14a	0.303
Gpcpd1	1.94936E-40	1.103417921	0.412	0.067	6.05333E-36	KO	Gpcpd1	0.345
Ywhaz	1.95664E-40	1.017738792	0.903	0.339	6.07594E-36	KO	Ywhaz	0.564
Chordc1	1.98198E-40	0.859005566	0.378	0.056	6.15463E-36	KO	Chordc1	0.322
Kpnb1	2.12907E-40	0.840648267	0.592	0.14	6.61141E-36	KO	Kpnb1	0.452
Vmp1	2.35831E-40	1.158698582	0.803	0.255	7.32324E-36	KO	Vmp1	0.548
Sept9	2.44458E-40	0.787821785	0.79	0.236	7.59116E-36	KO	Sept9	0.554
Agpat4	2.48671E-40	0.938259454	0.416	0.069	7.72197E-36	KO	Agpat4	0.347
Emc7	2.6887E-40	0.786206622	0.597	0.143	8.34923E-36	KO	Emc7	0.454
Nek7	2.95548E-40	0.925272833	0.408	0.066	9.17765E-36	KO	Nek7	0.342
Anxa6	3.04039E-40	0.930991596	0.878	0.305	9.44132E-36	KO	Anxa6	0.573
Fnbp1	3.1333E-40	0.917306902	0.723	0.2	9.72984E-36	KO	Fnbp1	0.523
Crebbp	3.30426E-40	0.721720992	0.508	0.104	1.02607E-35	KO	Crebbp	0.404
Hypk	3.44488E-40	0.998898292	0.462	0.086	1.06974E-35	KO	Hypk	0.376
Ms4a4b	3.55355E-40	1.273664181	0.866	0.407	1.10349E-35	KO	Ms4a4b	0.459
Smco4	3.69139E-40	1.350862657	0.387	0.061	1.14629E-35	KO	Smco4	0.326
Ablim1	3.83093E-40	0.697801301	0.752	0.213	1.18962E-35	KO	Ablim1	0.539
Ntan1	3.92991E-40	0.75186584	0.597	0.14	1.22036E-35	KO	Ntan1	0.457
Galnt3	4.13039E-40	1.596123498	0.29	0.029	1.28261E-35	KO	Galnt3	0.261
Fosb	4.99679E-40	2.132916938	0.298	0.032	1.55165E-35	KO	Fosb	0.266
Ss18	5.07176E-40	0.747246278	0.492	0.097	1.57493E-35	KO	Ss18	0.395
Pspc1	5.95135E-40	0.918246106	0.412	0.068	1.84807E-35	KO	Pspc1	0.344
Ilk	6.29208E-40	0.727488497	0.508	0.104	1.95388E-35	KO	Ilk	0.404
Rhoq	6.76546E-40	1.633735165	0.303	0.033	2.10088E-35	KO	Rhoq	0.27
Atp6v0a2	7.35254E-40	0.719844516	0.391	0.061	2.28318E-35	KO	Atp6v0a2	0.33
Lsm12	8.60701E-40	0.814558707	0.685	0.181	2.67273E-35	KO	Lsm12	0.504
Tram1	8.74984E-40	0.717360743	0.727	0.202	2.71709E-35	KO	Tram1	0.525
Cd3e	9.89297E-40	0.980006964	0.882	0.333	3.07206E-35	KO	Cd3e	0.549
Slc2a3	9.97813E-40	1.436857383	0.429	0.078	3.09851E-35	KO	Slc2a3	0.351
Stag2	1.05696E-39	0.808675705	0.529	0.114	3.28218E-35	KO	Stag2	0.415
Cpsf2	1.06331E-39	1.350455664	0.429	0.077	3.30189E-35	KO	Cpsf2	0.352
Hcls1	1.07297E-39	0.843529686	0.731	0.207	3.3319E-35	KO	Hcls1	0.524
Cd5	1.10093E-39	1.185930065	0.458	0.088	3.4187E-35	KO	Cd5	0.37
C1galt1	1.20104E-39	0.700280845	0.408	0.067	3.72958E-35	KO	C1galt1	0.341
Hnrnpa2b1	1.32958E-39	1.057211692	0.954	0.492	4.12874E-35	KO	Hnrnpa2b1	0.462
Uba52	1.52702E-39	1.04157996	0.916	0.458	4.74184E-35	KO	Uba52	0.458
Actn4	1.58416E-39	0.928308039	0.676	0.187	4.9193E-35	KO	Actn4	0.489
Cmtm6	1.66861E-39	0.86073038	0.412	0.068	5.18155E-35	KO	Cmtm6	0.344
Dnajc9	1.67973E-39	1.162366442	0.592	0.148	5.21607E-35	KO	Dnajc9	0.444
Mycbp2	1.86356E-39	0.69346813	0.693	0.186	5.78691E-35	KO	Mycbp2	0.507
Bscl2	1.88451E-39	0.827514207	0.429	0.075	5.85197E-35	KO	Bscl2	0.354
Pygb	2.15604E-39	1.147853471	0.345	0.046	6.69514E-35	KO	Pygb	0.299
Eif4enif1	2.24938E-39	0.750922843	0.475	0.093	6.985E-35	KO	Eif4enif1	0.382
Prkcsh	2.27346E-39	0.722036192	0.626	0.154	7.05977E-35	KO	Prkcsh	0.472
Klrd1	2.3045E-39	1.322918395	0.761	0.287	7.15617E-35	KO	Klrd1	0.474
Gm42418	2.35777E-39	0.793844664	0.996	0.999	7.32159E-35	KO	Gm42418	-0.003
Ppp1r15b	2.42783E-39	0.832410591	0.424	0.074	7.53915E-35	KO	Ppp1r15b	0.35
Pdcl3	2.73479E-39	0.846325902	0.496	0.103	8.49234E-35	KO	Pdcl3	0.393
Lmnb1	2.93543E-39	1.181423175	0.66	0.186	9.11539E-35	KO	Lmnb1	0.474

Nup210	2.97958E-39	0.892855428	0.693	0.193	9.25249E-35	KO	Nup210	0.5
Mtf2	2.99317E-39	1.009662547	0.466	0.09	9.29469E-35	KO	Mtf2	0.376
Copb1	3.11538E-39	0.818756879	0.529	0.115	9.67418E-35	KO	Copb1	0.414
Trmt1l	3.27909E-39	0.940025376	0.349	0.048	1.01825E-34	KO	Trmt1l	0.301
Pank2	3.32285E-39	0.834392314	0.458	0.087	1.03185E-34	KO	Pank2	0.371
Fcrl6	3.48213E-39	2.439857006	0.214	0.011	1.0813E-34	KO	Fcrl6	0.203
Bdp1	3.5462E-39	0.979882609	0.399	0.064	1.1012E-34	KO	Bdp1	0.335
Cntrl	3.74567E-39	0.700743148	0.685	0.183	1.16314E-34	KO	Cntrl	0.502
Chfr	3.75857E-39	0.942404079	0.45	0.084	1.16715E-34	KO	Chfr	0.366
Ilf3	3.98935E-39	0.743351075	0.42	0.073	1.23881E-34	KO	Ilf3	0.347
Ubn1	3.99893E-39	0.77877923	0.504	0.105	1.24179E-34	KO	Ubn1	0.399
Hexim1	4.02023E-39	0.829477426	0.437	0.079	1.2484E-34	KO	Hexim1	0.358
Tcea1	4.03924E-39	0.735795714	0.58	0.137	1.2543E-34	KO	Tcea1	0.443
Ccrl2	4.26759E-39	1.171128455	0.424	0.075	1.32522E-34	KO	Ccrl2	0.349
Kat6a	4.51686E-39	0.70850117	0.395	0.063	1.40262E-34	KO	Kat6a	0.332
Helz2	4.74116E-39	1.433712126	0.311	0.037	1.47227E-34	KO	Helz2	0.274
Nfyb	4.77603E-39	0.780473919	0.458	0.088	1.4831E-34	KO	Nfyb	0.37
Socs3	5.01758E-39	1.062227644	0.37	0.056	1.55811E-34	KO	Socs3	0.314
Dpp9	5.17585E-39	0.962935681	0.332	0.042	1.60726E-34	KO	Dpp9	0.29
Rfc1	5.28657E-39	1.483618295	0.378	0.061	1.64164E-34	KO	Rfc1	0.317
Stx11	5.35023E-39	1.327670342	0.487	0.104	1.66141E-34	KO	Stx11	0.383
Ppm1j	5.44802E-39	1.127787209	0.269	0.024	1.69177E-34	KO	Ppm1j	0.245
Dusp16	5.65272E-39	1.479630051	0.298	0.033	1.75534E-34	KO	Dusp16	0.265
Ttc7	6.32791E-39	0.834980404	0.42	0.073	1.96501E-34	KO	Ttc7	0.347
Cmc1	6.55351E-39	0.720058886	0.626	0.158	2.03506E-34	KO	Cmc1	0.468
Tmbim6	7.68745E-39	0.90679322	0.878	0.317	2.38718E-34	KO	Tmbim6	0.561
Senp2	8.06454E-39	0.780243863	0.462	0.088	2.50428E-34	KO	Senp2	0.374
Gbp7	8.59525E-39	0.96312342	0.492	0.104	2.66908E-34	KO	Gbp7	0.388
Nrf1	8.6051E-39	0.986261314	0.424	0.076	2.67214E-34	KO	Nrf1	0.348
Fam46a	1.02974E-38	1.614719303	0.571	0.152	3.19765E-34	KO	Fam46a	0.419
Osgep	1.14082E-38	0.839023141	0.466	0.091	3.54259E-34	KO	Osgep	0.375
Themis	1.14152E-38	0.71534321	0.626	0.157	3.54475E-34	KO	Themis	0.469
Panx1	1.26726E-38	1.508368689	0.298	0.034	3.93521E-34	KO	Panx1	0.264
Plp2	1.40073E-38	0.852386163	0.487	0.101	4.34967E-34	KO	Plp2	0.386
Rbm27	1.43251E-38	0.989265641	0.42	0.074	4.44836E-34	KO	Rbm27	0.346
Mthfd1l	1.46288E-38	0.965095361	0.458	0.088	4.54269E-34	KO	Mthfd1l	0.37
Rnf114	1.51369E-38	0.812028995	0.487	0.1	4.70045E-34	KO	Rnf114	0.387
C2cd3	1.58658E-38	1.017752752	0.328	0.042	4.92681E-34	KO	C2cd3	0.286
Amfr	1.67481E-38	0.735942329	0.525	0.114	5.20079E-34	KO	Amfr	0.411
Rap2a	1.78603E-38	1.153257724	0.42	0.077	5.54617E-34	KO	Rap2a	0.343
Dok2	1.79227E-38	0.948418488	0.504	0.108	5.56555E-34	KO	Dok2	0.396
Fam76a	1.84413E-38	0.901773374	0.353	0.05	5.72657E-34	KO	Fam76a	0.303
Irf9	1.91936E-38	1.466902544	0.319	0.04	5.96019E-34	KO	Irf9	0.279
Dnajc13	1.93474E-38	1.09199476	0.403	0.068	6.00794E-34	KO	Dnajc13	0.335
Jak2	1.94029E-38	1.110002372	0.5	0.109	6.02517E-34	KO	Jak2	0.391
Ddost	1.99268E-38	0.754771924	0.706	0.196	6.18786E-34	KO	Ddost	0.51
Tgfb1	1.99451E-38	1.08912423	0.786	0.255	6.19357E-34	KO	Tgfb1	0.531
Rpia	2.10086E-38	0.96901624	0.34	0.047	6.52379E-34	KO	Rpia	0.293
Tnks2	2.3614E-38	0.71315422	0.555	0.126	7.33286E-34	KO	Tnks2	0.429
Dck	2.46611E-38	1.89823849	0.294	0.034	7.658E-34	KO	Dck	0.26
Ubl3	2.47418E-38	0.727904294	0.748	0.221	7.68308E-34	KO	Ubl3	0.527

Hif1a	2.52385E-38	0.966185671	0.916	0.362	7.83731E-34	KO	Hif1a	0.554
Parp8	2.52928E-38	1.262311634	0.324	0.041	7.85417E-34	KO	Parp8	0.283
Pcgf5	2.68361E-38	0.945680475	0.504	0.11	8.33342E-34	KO	Pcgf5	0.394
Pcmt1	2.84017E-38	1.066272206	0.45	0.087	8.81957E-34	KO	Pcmt1	0.363
Sp3	2.94767E-38	0.783498615	0.592	0.145	9.1534E-34	KO	Sp3	0.447
Zmiz1	3.05712E-38	0.705366494	0.513	0.11	9.49327E-34	KO	Zmiz1	0.403
Ube2d2a	3.4908E-38	0.704022356	0.735	0.207	1.084E-33	KO	Ube2d2a	0.528
2810403A07R	3.66232E-38	0.727335396	0.441	0.082	1.13726E-33	KO	2810403A07R	0.359
Mien1	3.92594E-38	0.784378725	0.672	0.184	1.21912E-33	KO	Mien1	0.488
Actr2	4.28485E-38	0.958815728	0.882	0.326	1.33058E-33	KO	Actr2	0.556
Vamp2	4.35104E-38	0.718843931	0.483	0.098	1.35113E-33	KO	Vamp2	0.385
Tcof1	4.43025E-38	1.018559392	0.471	0.097	1.37573E-33	KO	Tcof1	0.374
Pcna	4.43644E-38	1.31411106	0.609	0.172	1.37765E-33	KO	Pcna	0.437
Fbxw11	4.57639E-38	0.832202374	0.37	0.057	1.42111E-33	KO	Fbxw11	0.313
Mapk1	4.98481E-38	0.812824682	0.647	0.17	1.54793E-33	KO	Mapk1	0.477
Prps2	5.06514E-38	0.757642985	0.387	0.062	1.57288E-33	KO	Prps2	0.325
Snw1	6.34268E-38	0.82493388	0.513	0.112	1.96959E-33	KO	Snw1	0.401
Brip1os	6.90631E-38	1.27404183	0.273	0.027	2.14462E-33	KO	Brip1os	0.246
Pi4ka	6.94118E-38	0.92206651	0.353	0.051	2.15545E-33	KO	Pi4ka	0.302
Hp1bp3	7.32058E-38	0.756356019	0.639	0.169	2.27326E-33	KO	Hp1bp3	0.47
Hsp90b1	8.15769E-38	1.16393141	0.92	0.426	2.53321E-33	KO	Hsp90b1	0.494
Ddx18	8.18745E-38	0.731850065	0.471	0.095	2.54245E-33	KO	Ddx18	0.376
G3bp1	8.90164E-38	1.013160631	0.744	0.236	2.76423E-33	KO	G3bp1	0.508
Specc1l	9.2903E-38	0.875976634	0.387	0.063	2.88492E-33	KO	Specc1l	0.324
Skap1	9.84284E-38	0.935144935	0.672	0.191	3.0565E-33	KO	Skap1	0.481
Smad3	1.08054E-37	0.904641699	0.462	0.093	3.35539E-33	KO	Smad3	0.369
Ctsc	1.1335E-37	0.734728572	0.563	0.133	3.51987E-33	KO	Ctsc	0.43
Spata13	1.17908E-37	0.831039236	0.454	0.088	3.6614E-33	KO	Spata13	0.366
Efh2	1.23778E-37	0.740287045	0.697	0.196	3.84369E-33	KO	Efh2	0.501
Fam98b	1.27718E-37	1.212622611	0.34	0.048	3.96602E-33	KO	Fam98b	0.292
Dnmt3a	1.42335E-37	0.810222521	0.395	0.067	4.41993E-33	KO	Dnmt3a	0.328
Zfp148	1.62744E-37	0.841704189	0.441	0.084	5.05368E-33	KO	Zfp148	0.357
Col4a3bp	1.65458E-37	0.771501238	0.387	0.064	5.13797E-33	KO	Col4a3bp	0.323
Cnot4	1.67082E-37	0.909176798	0.378	0.062	5.18841E-33	KO	Cnot4	0.316
Khdrbs1	1.68268E-37	0.704359503	0.731	0.21	5.22524E-33	KO	Khdrbs1	0.521
Synj2bp	1.75994E-37	0.959293109	0.403	0.071	5.46514E-33	KO	Synj2bp	0.332
Cs	1.78869E-37	0.849513616	0.559	0.133	5.55443E-33	KO	Cs	0.426
Abce1	1.80005E-37	1.133249081	0.437	0.085	5.5897E-33	KO	Abce1	0.352
Rnf5	1.9428E-37	1.767599616	0.235	0.017	6.03299E-33	KO	Rnf5	0.218
Tnfrsf18	1.97587E-37	0.9691723	0.664	0.187	6.13567E-33	KO	Tnfrsf18	0.477
Gm17745	2.02296E-37	1.005702697	0.387	0.064	6.28189E-33	KO	Gm17745	0.323
Prkar2a	2.04299E-37	1.488293565	0.311	0.039	6.34409E-33	KO	Prkar2a	0.272
Myo10	2.16428E-37	1.514312121	0.345	0.051	6.72075E-33	KO	Myo10	0.294
Tipr1	2.17184E-37	0.896821408	0.651	0.182	6.74422E-33	KO	Tipr1	0.469
Ap3b1	2.18907E-37	0.766435407	0.525	0.118	6.79771E-33	KO	Ap3b1	0.407
Cbx6	2.25102E-37	0.861719451	0.319	0.041	6.99008E-33	KO	Cbx6	0.278
Nkg7	2.28123E-37	1.435523821	0.849	0.599	7.0839E-33	KO	Nkg7	0.25
Mcm6	2.36101E-37	1.002803739	0.639	0.18	7.33165E-33	KO	Mcm6	0.459
Bak1	2.50787E-37	0.853206241	0.496	0.107	7.78768E-33	KO	Bak1	0.389
Kmt2a	3.13688E-37	0.777273389	0.664	0.181	9.74094E-33	KO	Kmt2a	0.483
Tpm4	3.35056E-37	0.876058606	0.845	0.298	1.04045E-32	KO	Tpm4	0.547

Ankrd13c	3.35478E-37	0.937353382	0.387	0.064	1.04176E-32	KO	Ankrd13c	0.323
Ppp1r3b	3.62214E-37	1.546149267	0.273	0.028	1.12478E-32	KO	Ppp1r3b	0.245
Actr1b	3.63697E-37	1.157292287	0.37	0.06	1.12939E-32	KO	Actr1b	0.31
Nadk	3.75622E-37	1.17995717	0.391	0.067	1.16642E-32	KO	Nadk	0.324
Ccng1	3.80645E-37	0.916331925	0.534	0.124	1.18202E-32	KO	Ccng1	0.41
Prkch	4.02498E-37	0.720317577	0.71	0.208	1.24988E-32	KO	Prkch	0.502
Ndufa1	4.0787E-37	0.902217386	0.866	0.311	1.26656E-32	KO	Ndufa1	0.555
Ubxn2a	4.29462E-37	0.935758024	0.361	0.056	1.33361E-32	KO	Ubxn2a	0.305
Med30	4.82358E-37	0.841816795	0.555	0.133	1.49787E-32	KO	Med30	0.422
Rtn4	4.88284E-37	0.771148006	0.618	0.159	1.51627E-32	KO	Rtn4	0.459
Phb	5.1448E-37	1.191924165	0.458	0.096	1.59761E-32	KO	Phb	0.362
Ncoa3	5.24367E-37	1.004366014	0.361	0.056	1.62832E-32	KO	Ncoa3	0.305
Mllt10	5.28085E-37	1.049179765	0.433	0.083	1.63986E-32	KO	Mllt10	0.35
Cdk5rap1	5.3207E-37	1.696482038	0.202	0.01	1.65224E-32	KO	Cdk5rap1	0.192
Ipo7	5.72154E-37	0.75766395	0.513	0.114	1.77671E-32	KO	Ipo7	0.399
Snrpg	5.7487E-37	1.099220056	0.887	0.394	1.78514E-32	KO	Snrpg	0.493
Rpa1	6.32549E-37	0.772214711	0.504	0.112	1.96425E-32	KO	Rpa1	0.392
Alcam	6.53474E-37	1.563211953	0.366	0.061	2.02923E-32	KO	Alcam	0.305
Psm2	6.6279E-37	0.754824891	0.63	0.167	2.05816E-32	KO	Psm2	0.463
Pbrm1	7.60225E-37	0.74146387	0.727	0.211	2.36073E-32	KO	Pbrm1	0.516
Mkl1	7.88354E-37	1.296356067	0.315	0.041	2.44807E-32	KO	Mkl1	0.274
Lrrc8d	8.72541E-37	1.080276459	0.29	0.034	2.7095E-32	KO	Lrrc8d	0.256
Ppwd1	8.76718E-37	0.843913367	0.374	0.062	2.72247E-32	KO	Ppwd1	0.312
Pabpc4	8.88779E-37	0.977229429	0.471	0.099	2.75993E-32	KO	Pabpc4	0.372
Hdac3	9.33847E-37	1.025820937	0.403	0.072	2.89987E-32	KO	Hdac3	0.331
Rpe	9.41358E-37	1.223717823	0.332	0.047	2.9232E-32	KO	Rpe	0.285
Epdr1	9.75048E-37	2.909633619	0.172	0.004	3.02782E-32	KO	Epdr1	0.168
Gpr171	1.07724E-36	0.811110198	0.483	0.103	3.34515E-32	KO	Gpr171	0.38
Pdpk1	1.11528E-36	0.816078665	0.412	0.075	3.46328E-32	KO	Pdpk1	0.337
Sipa1l1	1.34111E-36	0.829704326	0.521	0.118	4.16455E-32	KO	Sipa1l1	0.403
Mcm2	1.34286E-36	1.114259627	0.466	0.1	4.16998E-32	KO	Mcm2	0.366
Dennd1b	1.37591E-36	0.702269906	0.584	0.146	4.27261E-32	KO	Dennd1b	0.438
Podnl1	1.40459E-36	1.017940579	0.307	0.038	4.36166E-32	KO	Podnl1	0.269
Acat1	1.49723E-36	0.81136507	0.378	0.062	4.64936E-32	KO	Acat1	0.316
Hivep1	1.55219E-36	0.957717355	0.374	0.062	4.82003E-32	KO	Hivep1	0.312
Impact	1.63566E-36	1.409657798	0.349	0.054	5.0792E-32	KO	Impact	0.295
Tle3	1.73554E-36	0.955460994	0.475	0.102	5.38937E-32	KO	Tle3	0.373
Hars	1.78995E-36	0.98265761	0.424	0.081	5.55832E-32	KO	Hars	0.343
Pik3cg	1.8325E-36	0.994978225	0.328	0.045	5.69047E-32	KO	Pik3cg	0.283
Ints11	1.84496E-36	0.760327632	0.366	0.059	5.72916E-32	KO	Ints11	0.307
Runx2	1.98367E-36	0.715894204	0.706	0.206	6.15988E-32	KO	Runx2	0.5
Nrp1	1.99412E-36	1.095607005	0.357	0.056	6.19236E-32	KO	Nrp1	0.301
Ocel1	2.14681E-36	1.039052175	0.286	0.033	6.66648E-32	KO	Ocel1	0.253
Mnt	2.20017E-36	1.087195028	0.298	0.037	6.83219E-32	KO	Mnt	0.261
Igbbp1	2.35655E-36	0.775947282	0.479	0.104	7.31779E-32	KO	Igbbp1	0.375
Coro2a	2.36792E-36	0.759742157	0.487	0.108	7.35309E-32	KO	Coro2a	0.379
Tpr	2.44342E-36	0.798450426	0.811	0.272	7.58754E-32	KO	Tpr	0.539
Uba1	2.63553E-36	0.896281408	0.647	0.179	8.1841E-32	KO	Uba1	0.468
Ptbp3	2.654E-36	0.832890021	0.849	0.287	8.24148E-32	KO	Ptbp3	0.562
Srprb	2.91072E-36	1.337643076	0.29	0.035	9.03867E-32	KO	Srprb	0.255
Naxd	2.99235E-36	1.200787496	0.391	0.069	9.29216E-32	KO	Naxd	0.322

Smarca5	3.09113E-36	0.931370353	0.769	0.249	9.5989E-32	KO	Smarca5	0.52
Atp2b1	3.12857E-36	0.934679917	0.685	0.202	9.71514E-32	KO	Atp2b1	0.483
Lrba	3.15183E-36	1.151786334	0.399	0.072	9.78737E-32	KO	Lrba	0.327
Chst2	3.40491E-36	1.322684946	0.294	0.036	1.05733E-31	KO	Chst2	0.258
Dnaja1	3.56067E-36	0.855049713	0.84	0.294	1.1057E-31	KO	Dnaja1	0.546
Btbd9	3.63913E-36	1.080724961	0.269	0.028	1.13006E-31	KO	Btbd9	0.241
Al467606	3.65412E-36	1.259552096	0.29	0.035	1.13471E-31	KO	Al467606	0.255
Exosc3	3.93139E-36	0.710936618	0.492	0.108	1.22082E-31	KO	Exosc3	0.384
Apeh	4.02074E-36	1.060718995	0.303	0.038	1.24856E-31	KO	Apeh	0.265
Stip1	4.28061E-36	0.796639613	0.546	0.132	1.32926E-31	KO	Stip1	0.414
Rbl2	4.85994E-36	0.762139004	0.655	0.184	1.50916E-31	KO	Rbl2	0.471
Pcbd2	4.92211E-36	0.908349734	0.458	0.094	1.52846E-31	KO	Pcbd2	0.364
Larp1	5.64607E-36	0.767590524	0.597	0.155	1.75327E-31	KO	Larp1	0.442
Wipf1	5.8161E-36	0.725945482	0.761	0.236	1.80607E-31	KO	Wipf1	0.525
Neat1	6.36551E-36	0.96144075	0.714	0.211	1.97668E-31	KO	Neat1	0.503
Smim3	6.53655E-36	1.037911413	0.395	0.072	2.02979E-31	KO	Smim3	0.323
0610010K14R	6.75929E-36	1.074032462	0.412	0.078	2.09896E-31	KO	0610010K14R	0.334
Dnm1l	6.76803E-36	1.058278133	0.378	0.064	2.10168E-31	KO	Dnm1l	0.314
Cox16	7.03838E-36	1.185257826	0.273	0.03	2.18563E-31	KO	Cox16	0.243
Ttc39b	7.08187E-36	0.696798787	0.613	0.161	2.19913E-31	KO	Ttc39b	0.452
Ankra2	7.18537E-36	0.823614796	0.277	0.031	2.23127E-31	KO	Ankra2	0.246
Myo1g	7.28755E-36	0.889467015	0.685	0.202	2.263E-31	KO	Myo1g	0.483
1810022K09R	7.31963E-36	0.7193703	0.689	0.194	2.27296E-31	KO	1810022K09R	0.495
Aagab	7.72896E-36	1.435513533	0.256	0.025	2.40007E-31	KO	Aagab	0.231
Bcl11b	8.21327E-36	0.726442896	0.605	0.158	2.55047E-31	KO	Bcl11b	0.447
Trim56	8.94727E-36	1.554129611	0.307	0.04	2.7784E-31	KO	Trim56	0.267
Pmaip1	9.33888E-36	1.064466935	0.374	0.063	2.9E-31	KO	Pmaip1	0.311
Flt3l	9.59579E-36	0.858031715	0.303	0.038	2.97978E-31	KO	Flt3l	0.265
Lpcat4	1.01116E-35	2.029825873	0.231	0.018	3.13996E-31	KO	Lpcat4	0.213
Selenoi	1.04409E-35	1.098600106	0.361	0.059	3.2422E-31	KO	Selenoi	0.302
Tmem163	1.05361E-35	1.076111548	0.315	0.042	3.27176E-31	KO	Tmem163	0.273
Tnpo3	1.10231E-35	0.704734612	0.483	0.105	3.42301E-31	KO	Tnpo3	0.378
Glrx2	1.1638E-35	0.809222743	0.504	0.116	3.61396E-31	KO	Glrx2	0.388
Irak1	1.19078E-35	0.798174153	0.529	0.126	3.69773E-31	KO	Irak1	0.403
Srbd1	1.21668E-35	1.573550609	0.252	0.024	3.77816E-31	KO	Srbd1	0.228
Sptbn1	1.2217E-35	0.728055336	0.542	0.131	3.79373E-31	KO	Sptbn1	0.411
Shisa5	1.26002E-35	0.912196558	0.929	0.406	3.91275E-31	KO	Shisa5	0.523
Dcun1d1	1.30961E-35	0.967253901	0.361	0.06	4.06672E-31	KO	Dcun1d1	0.301
Ezh2	1.40523E-35	1.256653573	0.475	0.108	4.36365E-31	KO	Ezh2	0.367
Capn2	1.40727E-35	0.760068695	0.391	0.069	4.37E-31	KO	Capn2	0.322
Casp8ap2	1.41728E-35	0.889888789	0.445	0.091	4.40108E-31	KO	Casp8ap2	0.354
Sbds	1.45501E-35	0.855834075	0.437	0.088	4.51824E-31	KO	Sbds	0.349
Bcr	1.46607E-35	0.760015163	0.319	0.044	4.55258E-31	KO	Bcr	0.275
Hspa1b	1.49643E-35	2.133930781	0.353	0.06	4.64688E-31	KO	Hspa1b	0.293
Cdk2ap1	1.50749E-35	1.077776823	0.412	0.078	4.68121E-31	KO	Cdk2ap1	0.334
Ap1s3	1.62342E-35	1.556366892	0.223	0.016	5.04121E-31	KO	Ap1s3	0.207
Pigp	1.62818E-35	0.740038004	0.408	0.076	5.056E-31	KO	Pigp	0.332
Rgs1	1.66383E-35	1.214937441	0.832	0.322	5.16669E-31	KO	Rgs1	0.51
Dnttip2	1.66914E-35	1.204922322	0.34	0.053	5.18319E-31	KO	Dnttip2	0.287
Tmem30a	1.83833E-35	0.870792428	0.618	0.17	5.70856E-31	KO	Tmem30a	0.448
Pqlc3	1.95922E-35	1.004505031	0.328	0.048	6.08397E-31	KO	Pqlc3	0.28

Bbip1	2.0204E-35	0.94443143	0.395	0.072	6.27394E-31	KO	Bbip1	0.323
Tomm7	2.06733E-35	0.988162372	0.933	0.438	6.41969E-31	KO	Tomm7	0.495
Ddx21	2.105E-35	0.969216875	0.525	0.128	6.53666E-31	KO	Ddx21	0.397
Nono	2.29722E-35	0.777779561	0.79	0.255	7.13355E-31	KO	Nono	0.535
Eif4g1	2.37994E-35	0.699869782	0.693	0.203	7.39042E-31	KO	Eif4g1	0.49
Cnot6	2.38975E-35	0.754260376	0.618	0.163	7.4209E-31	KO	Cnot6	0.455
Gtdc1	2.40434E-35	1.962675282	0.269	0.03	7.4662E-31	KO	Gtdc1	0.239
Ppp2r2d	2.41517E-35	0.872272392	0.403	0.075	7.49982E-31	KO	Ppp2r2d	0.328
Mllt3	2.49296E-35	1.073346457	0.466	0.1	7.74139E-31	KO	Mllt3	0.366
Lockd	2.66866E-35	1.107175406	0.471	0.106	8.28698E-31	KO	Lockd	0.365
Dcps	2.72243E-35	0.875216263	0.416	0.08	8.45396E-31	KO	Dcps	0.336
A930024E05R	3.17616E-35	1.820569826	0.21	0.013	9.86293E-31	KO	A930024E05R	0.197
Lars	3.48209E-35	0.834818086	0.416	0.081	1.08129E-30	KO	Lars	0.335
Wdr82	3.49937E-35	1.337413311	0.349	0.057	1.08666E-30	KO	Wdr82	0.292
Cyb5b	3.75113E-35	0.706043528	0.517	0.122	1.16484E-30	KO	Cyb5b	0.395
Ebna1bp2	3.75144E-35	0.711466072	0.567	0.14	1.16493E-30	KO	Ebna1bp2	0.427
Aff1	3.78041E-35	0.881036359	0.277	0.032	1.17393E-30	KO	Aff1	0.245
Igtp	4.05587E-35	1.132462169	0.391	0.072	1.25947E-30	KO	Igtp	0.319
Cers6	4.17117E-35	1.347068982	0.256	0.026	1.29527E-30	KO	Cers6	0.23
Nars	4.19195E-35	0.783251257	0.458	0.097	1.30173E-30	KO	Nars	0.361
Ccnd2	4.32549E-35	1.048903889	0.71	0.228	1.34319E-30	KO	Ccnd2	0.482
Hilpda	4.70493E-35	0.79705141	0.744	0.236	1.46102E-30	KO	Hilpda	0.508
Hexb	5.10096E-35	1.087953192	0.311	0.043	1.584E-30	KO	Hexb	0.268
Cnn2	5.37727E-35	0.913245599	0.853	0.316	1.6698E-30	KO	Cnn2	0.537
Sod1	5.40139E-35	0.782734289	0.798	0.258	1.67729E-30	KO	Sod1	0.54
Ybx3	5.50747E-35	1.068802836	0.739	0.252	1.71023E-30	KO	Ybx3	0.487
Clcf1	5.56851E-35	1.524980411	0.235	0.02	1.72919E-30	KO	Clcf1	0.215
Lamb3	5.63419E-35	1.92899607	0.235	0.02	1.74958E-30	KO	Lamb3	0.215
Adam10	5.79578E-35	0.969620139	0.429	0.088	1.79976E-30	KO	Adam10	0.341
Birc3	6.56632E-35	1.266271924	0.408	0.081	2.03904E-30	KO	Birc3	0.327
Prpf6	6.86671E-35	1.289139635	0.311	0.043	2.13232E-30	KO	Prpf6	0.268
Kcnn4	7.19704E-35	1.039739249	0.483	0.112	2.2349E-30	KO	Kcnn4	0.371
Pus1	7.27642E-35	1.389289996	0.319	0.047	2.25955E-30	KO	Pus1	0.272
Mfsd14a	7.35539E-35	0.818951023	0.37	0.063	2.28407E-30	KO	Mfsd14a	0.307
Rin3	8.13542E-35	1.06759467	0.332	0.051	2.52629E-30	KO	Rin3	0.281
Spty2d1	8.75042E-35	1.05433477	0.34	0.054	2.71727E-30	KO	Spty2d1	0.286
Minpp1	9.63859E-35	1.143783832	0.303	0.04	2.99307E-30	KO	Minpp1	0.263
Mark2	1.00819E-34	0.72670717	0.571	0.146	3.13073E-30	KO	Mark2	0.425
Fyb	1.03813E-34	0.763839626	0.87	0.309	3.22369E-30	KO	Fyb	0.561
Cbx1	1.05358E-34	0.840465248	0.513	0.123	3.27167E-30	KO	Cbx1	0.39
Trac	1.07853E-34	1.000186007	0.924	0.466	3.34917E-30	KO	Trac	0.458
Fam103a1	1.09465E-34	0.908616848	0.513	0.123	3.39922E-30	KO	Fam103a1	0.39
Stard3nl	1.19752E-34	0.823808386	0.399	0.075	3.71867E-30	KO	Stard3nl	0.324
Cdc123	1.21147E-34	0.743178341	0.433	0.088	3.76197E-30	KO	Cdc123	0.345
Zfp384	1.21551E-34	1.174901857	0.244	0.023	3.77452E-30	KO	Zfp384	0.221
Ilvbl	1.32175E-34	0.85872854	0.298	0.039	4.10444E-30	KO	Ilvbl	0.259
Rabep1	1.32975E-34	1.475032677	0.319	0.047	4.12926E-30	KO	Rabep1	0.272
Ywhah	1.36377E-34	0.818539684	0.798	0.273	4.23492E-30	KO	Ywhah	0.525
Far1	1.36537E-34	0.855521469	0.487	0.111	4.2399E-30	KO	Far1	0.376
Adam8	1.42957E-34	0.784092951	0.462	0.1	4.43924E-30	KO	Adam8	0.362
Rad50	1.45206E-34	0.994435542	0.378	0.068	4.50908E-30	KO	Rad50	0.31

Efcab14	1.57579E-34	0.881993454	0.361	0.062	4.8933E-30	KO	Efcab14	0.299
Bloc1s1	1.58789E-34	1.121406671	0.277	0.033	4.93089E-30	KO	Bloc1s1	0.244
Rnf14	1.63287E-34	0.861188901	0.324	0.048	5.07056E-30	KO	Rnf14	0.276
Jaml	1.66166E-34	1.48745657	0.29	0.038	5.15997E-30	KO	Jaml	0.252
Plscr1	1.76595E-34	0.901102825	0.466	0.104	5.48381E-30	KO	Plscr1	0.362
Galk2	1.86303E-34	1.371087711	0.269	0.031	5.78528E-30	KO	Galk2	0.238
Gm26532	2.1575E-34	1.61279457	0.252	0.026	6.69969E-30	KO	Gm26532	0.226
Rai1	2.27405E-34	1.230440185	0.269	0.031	7.0616E-30	KO	Rai1	0.238
Sh3bp1	2.66801E-34	0.759770197	0.412	0.08	8.28497E-30	KO	Sh3bp1	0.332
Aftph	2.95991E-34	0.725936371	0.433	0.088	9.19142E-30	KO	Aftph	0.345
Magohb	3.01521E-34	1.239901619	0.408	0.081	9.36312E-30	KO	Magohb	0.327
Acadl	3.19816E-34	0.77015496	0.651	0.186	9.93123E-30	KO	Acadl	0.465
Hspa14	3.45573E-34	0.777509308	0.517	0.125	1.07311E-29	KO	Hspa14	0.392
Ciabin1	3.56237E-34	0.753391544	0.765	0.253	1.10622E-29	KO	Ciabin1	0.512
Ifi27l2a	3.68664E-34	1.4152959	0.79	0.32	1.14481E-29	KO	Ifi27l2a	0.47
Rnaseh2b	3.70363E-34	1.001524144	0.416	0.083	1.15009E-29	KO	Rnaseh2b	0.333
Endod1	4.31094E-34	0.810209406	0.336	0.053	1.33868E-29	KO	Endod1	0.283
Mef2a	4.32133E-34	0.73208962	0.403	0.077	1.3419E-29	KO	Mef2a	0.326
Cd8b1	4.53695E-34	1.137328228	0.773	0.307	1.40886E-29	KO	Cd8b1	0.466
Dtx3l	4.60072E-34	1.222835153	0.328	0.051	1.42866E-29	KO	Dtx3l	0.277
Ccl3	4.61477E-34	1.287976338	0.437	0.094	1.43303E-29	KO	Ccl3	0.343
Mta3	4.733E-34	0.777226459	0.387	0.071	1.46974E-29	KO	Mta3	0.316
Acbd3	4.89485E-34	1.104182955	0.403	0.08	1.52E-29	KO	Acbd3	0.323
Xlr	5.07549E-34	4.100817348	0.139	0	1.57609E-29	KO	Xlr	0.139
Sh2d2a	5.18839E-34	1.085752873	0.908	0.46	1.61115E-29	KO	Sh2d2a	0.448
Cldnd1	5.2856E-34	1.059432265	0.336	0.054	1.64134E-29	KO	Cldnd1	0.282
Opa3	5.59175E-34	1.402781062	0.223	0.018	1.73641E-29	KO	Opa3	0.205
Paip1	5.82638E-34	1.140399914	0.248	0.025	1.80927E-29	KO	Paip1	0.223
Ddi2	6.04755E-34	1.459171095	0.319	0.048	1.87795E-29	KO	Ddi2	0.271
Pcnt	6.48599E-34	0.799956775	0.324	0.049	2.01409E-29	KO	Pcnt	0.275
Sik3	6.98933E-34	0.707335003	0.433	0.089	2.1704E-29	KO	Sik3	0.344
Hsd11b1	7.01988E-34	1.111272018	0.273	0.033	2.17988E-29	KO	Hsd11b1	0.24
Pced1b	7.16047E-34	1.285271976	0.256	0.028	2.22354E-29	KO	Pced1b	0.228
Trim12c	7.34845E-34	1.182297746	0.29	0.038	2.28192E-29	KO	Trim12c	0.252
Mcm3	7.47645E-34	1.416890057	0.508	0.135	2.32166E-29	KO	Mcm3	0.373
Fuca2	7.75843E-34	0.844648549	0.303	0.042	2.40923E-29	KO	Fuca2	0.261
Il3ra	7.91141E-34	0.802848363	0.328	0.05	2.45673E-29	KO	Il3ra	0.278
Capzb	7.95185E-34	0.963394692	0.924	0.412	2.46929E-29	KO	Capzb	0.512
Sltm	8.4473E-34	0.808621543	0.613	0.172	2.62314E-29	KO	Sltm	0.441
Lig1	8.50662E-34	1.310490432	0.525	0.138	2.64156E-29	KO	Lig1	0.387
Ern1	8.66721E-34	1.000553457	0.244	0.024	2.69143E-29	KO	Ern1	0.22
Gatad1	9.84463E-34	0.816995491	0.458	0.103	3.05705E-29	KO	Gatad1	0.355
Noc2l	1.07691E-33	0.726106601	0.521	0.127	3.34413E-29	KO	Noc2l	0.394
Slc37a2	1.12674E-33	1.613397339	0.218	0.017	3.49887E-29	KO	Slc37a2	0.201
Trnt1	1.16971E-33	1.012520608	0.429	0.089	3.63231E-29	KO	Trnt1	0.34
Paics	1.22394E-33	0.745309842	0.534	0.134	3.8007E-29	KO	Paics	0.4
Taf1	1.27394E-33	0.797654901	0.391	0.074	3.95597E-29	KO	Taf1	0.317
Zc3h4	1.29709E-33	1.255231322	0.29	0.038	4.02784E-29	KO	Zc3h4	0.252
Banp	1.30882E-33	1.508745567	0.252	0.027	4.06429E-29	KO	Banp	0.225
Runx3	1.36732E-33	0.834129188	0.777	0.265	4.24594E-29	KO	Runx3	0.512
Sept7	1.40627E-33	0.755069151	0.836	0.297	4.36689E-29	KO	Sept7	0.539

Vrk3	1.43671E-33	0.699253774	0.311	0.045	4.46141E-29	KO	Vrk3	0.266
Chst12	1.45003E-33	0.696670331	0.357	0.062	4.50278E-29	KO	Chst12	0.295
Abhd2	1.49292E-33	0.944143465	0.361	0.062	4.63597E-29	KO	Abhd2	0.299
Itgb1	1.72836E-33	1.143338145	0.731	0.241	5.36707E-29	KO	Itgb1	0.49
Mat2a	1.84928E-33	0.787235549	0.546	0.141	5.74257E-29	KO	Mat2a	0.405
Tmem229b	1.88807E-33	1.182748587	0.252	0.027	5.86303E-29	KO	Tmem229b	0.225
Rb1	2.01176E-33	1.032671939	0.307	0.044	6.24713E-29	KO	Rb1	0.263
Ufsp2	2.0704E-33	1.161621566	0.307	0.045	6.42921E-29	KO	Ufsp2	0.262
Fubp1	2.14027E-33	0.722658663	0.739	0.234	6.64618E-29	KO	Fubp1	0.505
Akap13	2.38459E-33	1.025355656	0.937	0.485	7.40488E-29	KO	Akap13	0.452
Add3	2.68928E-33	0.835117343	0.324	0.05	8.35103E-29	KO	Add3	0.274
Serpine2	2.69746E-33	1.954472337	0.324	0.054	8.37641E-29	KO	Serpine2	0.27
Sms	2.83614E-33	0.878295174	0.685	0.213	8.80707E-29	KO	Sms	0.472
Rcn1	2.85217E-33	0.792089988	0.336	0.055	8.85686E-29	KO	Rcn1	0.281
Elavl1	2.91723E-33	0.697860768	0.647	0.188	9.05887E-29	KO	Elavl1	0.459
Fam204a	2.98729E-33	0.735188809	0.416	0.086	9.27642E-29	KO	Fam204a	0.33
Cd96	3.07515E-33	0.746091915	0.412	0.082	9.54925E-29	KO	Cd96	0.33
Mov10	3.09091E-33	1.244713231	0.244	0.025	9.59819E-29	KO	Mov10	0.219
Dnajib11	3.29064E-33	0.714470306	0.492	0.119	1.02184E-28	KO	Dnajib11	0.373
Perp	3.41132E-33	1.418221372	0.244	0.025	1.05932E-28	KO	Perp	0.219
Ddb1	3.57158E-33	0.693337588	0.664	0.193	1.10908E-28	KO	Ddb1	0.471
Cbx5	3.6539E-33	0.968412103	0.521	0.134	1.13465E-28	KO	Cbx5	0.387
Stard4	3.71339E-33	1.083745255	0.391	0.077	1.15312E-28	KO	Stard4	0.314
Ets2	3.77013E-33	0.943847596	0.315	0.048	1.17074E-28	KO	Ets2	0.267
Cd47	3.88482E-33	0.960445009	0.882	0.363	1.20635E-28	KO	Cd47	0.519
Myh9	3.99259E-33	0.950990534	0.912	0.409	1.23982E-28	KO	Myh9	0.503
Thap2	4.05584E-33	1.692737352	0.239	0.024	1.25946E-28	KO	Thap2	0.215
H2-Q7	4.18738E-33	1.022223712	0.95	0.653	1.30031E-28	KO	H2-Q7	0.297
Usp50	4.22205E-33	1.068224561	0.353	0.062	1.31107E-28	KO	Usp50	0.291
Agps	4.39048E-33	0.891976323	0.332	0.054	1.36338E-28	KO	Agps	0.278
Phactr2	4.77695E-33	1.093539393	0.29	0.039	1.48339E-28	KO	Phactr2	0.251
Ptms	4.84381E-33	0.962733139	0.765	0.277	1.50415E-28	KO	Ptms	0.488
Cox7c	5.1072E-33	0.864215405	0.941	0.593	1.58594E-28	KO	Cox7c	0.348
Rilpl2	5.19168E-33	0.818824839	0.609	0.172	1.61217E-28	KO	Rilpl2	0.437
Mrpl21	5.97135E-33	0.863447279	0.521	0.128	1.85428E-28	KO	Mrpl21	0.393
9530068E07Ri	6.06269E-33	0.697350592	0.487	0.113	1.88265E-28	KO	9530068E07Ri	0.374
Dapk2	6.06717E-33	1.901343229	0.218	0.018	1.88404E-28	KO	Dapk2	0.2
Hnrnpa0	6.73934E-33	0.905942958	0.891	0.374	2.09277E-28	KO	Hnrnpa0	0.517
Hpf1	6.78852E-33	0.743273718	0.634	0.188	2.10804E-28	KO	Hpf1	0.446
Mepce	7.44554E-33	0.855588659	0.361	0.064	2.31206E-28	KO	Mepce	0.297
Tollip	7.47886E-33	0.887195533	0.298	0.042	2.32241E-28	KO	Tollip	0.256
Dhps	7.54416E-33	1.094979436	0.395	0.078	2.34269E-28	KO	Dhps	0.317
Tmem230	8.59373E-33	0.993367702	0.273	0.035	2.66861E-28	KO	Tmem230	0.238
Nrm	1.00584E-32	0.885428049	0.345	0.06	3.12344E-28	KO	Nrm	0.285
Sppl2a	1.07312E-32	0.701822679	0.416	0.086	3.33236E-28	KO	Sppl2a	0.33
Baiap2	1.08305E-32	1.28796854	0.282	0.038	3.36318E-28	KO	Baiap2	0.244
Traf3ip3	1.14621E-32	0.777561635	0.45	0.102	3.55931E-28	KO	Traf3ip3	0.348
Micu2	1.15407E-32	0.89286432	0.349	0.061	3.58373E-28	KO	Micu2	0.288
Lsm8	1.25317E-32	0.763117248	0.584	0.162	3.89146E-28	KO	Lsm8	0.422
Hook3	1.34171E-32	0.742946218	0.382	0.073	4.16642E-28	KO	Hook3	0.309
Plagl2	1.38975E-32	0.985628467	0.286	0.039	4.31558E-28	KO	Plagl2	0.247

Slc9a1	1.42954E-32	0.983516727	0.273	0.035	4.43916E-28	KO	Slc9a1	0.238
Rbbp8	1.48077E-32	0.70338161	0.345	0.059	4.59824E-28	KO	Rbbp8	0.286
Tmem258	1.4848E-32	0.753381788	0.782	0.268	4.61076E-28	KO	Tmem258	0.514
Parvg	1.52515E-32	0.743387632	0.403	0.083	4.73606E-28	KO	Parvg	0.32
Psip1	1.58745E-32	0.821730177	0.496	0.123	4.9295E-28	KO	Psip1	0.373
Mms22l	1.65852E-32	0.858558058	0.319	0.05	5.1502E-28	KO	Mms22l	0.269
Impa1	1.71208E-32	0.815234925	0.429	0.092	5.31652E-28	KO	Impa1	0.337
Klf10	1.78509E-32	1.630337385	0.244	0.026	5.54325E-28	KO	Klf10	0.218
Nde1	1.82461E-32	0.922131168	0.366	0.067	5.66597E-28	KO	Nde1	0.299
Pes1	1.88491E-32	0.930245108	0.336	0.057	5.8532E-28	KO	Pes1	0.279
Ssbp3	2.2551E-32	0.855041738	0.525	0.135	7.00278E-28	KO	Ssbp3	0.39
Mthfd1	2.41379E-32	1.224262937	0.34	0.06	7.49555E-28	KO	Mthfd1	0.28
Pdcl	2.43828E-32	1.580188933	0.252	0.029	7.57158E-28	KO	Pdcl	0.223
Gbp2	2.44546E-32	1.245800227	0.311	0.048	7.59389E-28	KO	Gbp2	0.263
Tet3	2.47833E-32	0.723403739	0.378	0.072	7.69596E-28	KO	Tet3	0.306
Ints7	2.48489E-32	0.82345946	0.298	0.043	7.71632E-28	KO	Ints7	0.255
Aebp2	2.49041E-32	0.840836643	0.849	0.336	7.73348E-28	KO	Aebp2	0.513
Cep41	2.51103E-32	2.275858839	0.189	0.012	7.79751E-28	KO	Cep41	0.177
Herc6	2.5895E-32	1.514498762	0.252	0.029	8.04118E-28	KO	Herc6	0.223
Impa2	2.72744E-32	0.716302904	0.529	0.136	8.46951E-28	KO	Impa2	0.393
Furin	2.84467E-32	1.304399221	0.42	0.092	8.83355E-28	KO	Furin	0.328
Colgalt1	3.18187E-32	0.938310627	0.328	0.054	9.88066E-28	KO	Colgalt1	0.274
Ccdc6	3.30076E-32	0.725543289	0.378	0.073	1.02498E-27	KO	Ccdc6	0.305
Inf2	3.41694E-32	0.817191192	0.349	0.062	1.06106E-27	KO	Inf2	0.287
Ppfia1	3.42402E-32	0.781979821	0.303	0.045	1.06326E-27	KO	Ppfia1	0.258
Borcs8	3.53051E-32	0.714015817	0.433	0.093	1.09633E-27	KO	Borcs8	0.34
Hnrnpc	3.72698E-32	0.707959528	0.807	0.27	1.15734E-27	KO	Hnrnpc	0.537
Dnmt1	3.96607E-32	1.250580092	0.513	0.141	1.23158E-27	KO	Dnmt1	0.372
Arid4a	4.21189E-32	1.018123826	0.403	0.083	1.30792E-27	KO	Arid4a	0.32
Fam114a2	4.28813E-32	0.724887884	0.311	0.048	1.33159E-27	KO	Fam114a2	0.263
Bcl2l11	4.42733E-32	0.959220651	0.529	0.139	1.37482E-27	KO	Bcl2l11	0.39
Slc30a5	4.47214E-32	1.020243642	0.324	0.053	1.38873E-27	KO	Slc30a5	0.271
Stx6	4.84309E-32	1.059765181	0.366	0.068	1.50393E-27	KO	Stx6	0.298
Prelid2	4.89653E-32	0.875898048	0.374	0.072	1.52052E-27	KO	Prelid2	0.302
Lpgat1	4.94348E-32	1.311816628	0.29	0.042	1.5351E-27	KO	Lpgat1	0.248
Rgcc	4.96317E-32	1.668162813	0.353	0.066	1.54121E-27	KO	Rgcc	0.287
Inpp5d	5.87554E-32	0.833498245	0.454	0.103	1.82453E-27	KO	Inpp5d	0.351
Trim35	6.05614E-32	0.735308566	0.441	0.097	1.88061E-27	KO	Trim35	0.344
Psme2	6.27876E-32	0.936428464	0.866	0.331	1.94974E-27	KO	Psme2	0.535
Pkp4	8.75392E-32	0.940161698	0.479	0.117	2.71836E-27	KO	Pkp4	0.362
Gch1	9.4608E-32	0.93555765	0.399	0.083	2.93786E-27	KO	Gch1	0.316
Scamp2	9.99607E-32	0.766154631	0.361	0.067	3.10408E-27	KO	Scamp2	0.294
Nap1l1	1.02228E-31	1.006727184	0.878	0.395	3.17448E-27	KO	Nap1l1	0.483
Hacd3	1.0824E-31	0.778030938	0.391	0.079	3.36119E-27	KO	Hacd3	0.312
Gm12840	1.2351E-31	2.803772138	0.218	0.021	3.83537E-27	KO	Gm12840	0.197
Wdr1	1.33784E-31	0.779938241	0.769	0.269	4.15439E-27	KO	Wdr1	0.5
Cep120	1.38885E-31	1.23206461	0.282	0.039	4.31281E-27	KO	Cep120	0.243
Cd38	1.4504E-31	1.401377974	0.235	0.025	4.50392E-27	KO	Cd38	0.21
Exoc2	1.56469E-31	0.718864322	0.324	0.054	4.85882E-27	KO	Exoc2	0.27
Fh1	1.71566E-31	1.024673559	0.395	0.083	5.32763E-27	KO	Fh1	0.312
AB124611	1.79103E-31	0.843181375	0.286	0.04	5.56169E-27	KO	AB124611	0.246

Ptger4	1.88901E-31	1.329349073	0.269	0.036	5.86595E-27	KO	Ptger4	0.233
Cd200r4	1.94576E-31	1.887645257	0.181	0.011	6.04216E-27	KO	Cd200r4	0.17
Ppp2cb	2.19311E-31	1.854123558	0.248	0.03	6.81026E-27	KO	Ppp2cb	0.218
Nfya	2.26225E-31	1.877056566	0.21	0.018	7.02496E-27	KO	Nfya	0.192
Larp1b	2.36996E-31	1.478331885	0.315	0.052	7.35943E-27	KO	Larp1b	0.263
Lrch4	2.61358E-31	1.266130358	0.185	0.012	8.11596E-27	KO	Lrch4	0.173
Ncaph	2.61881E-31	1.382938873	0.29	0.043	8.1322E-27	KO	Ncaph	0.247
Coa6	2.72324E-31	0.885025152	0.29	0.042	8.45648E-27	KO	Coa6	0.248
Pdcd11	2.8313E-31	1.011732625	0.319	0.053	8.79205E-27	KO	Pdcd11	0.266
Nudt16l1	2.96952E-31	0.695997766	0.319	0.053	9.22126E-27	KO	Nudt16l1	0.266
Cdyl	3.11982E-31	1.779100102	0.227	0.023	9.68797E-27	KO	Cdyl	0.204
Rpl23a	3.13691E-31	0.841041562	0.962	0.661	9.74105E-27	KO	Rpl23a	0.301
Parp1	3.36636E-31	0.905833016	0.374	0.074	1.04535E-26	KO	Parp1	0.3
Rbms2	3.65243E-31	1.291625091	0.231	0.024	1.13419E-26	KO	Rbms2	0.207
Lclat1	3.66928E-31	1.028380839	0.286	0.041	1.13942E-26	KO	Lclat1	0.245
Hccs	3.81637E-31	0.877501348	0.416	0.09	1.1851E-26	KO	Hccs	0.326
Lonp2	4.03925E-31	0.804162576	0.303	0.047	1.25431E-26	KO	Lonp2	0.256
Lilr4b	4.27273E-31	0.827417153	0.424	0.093	1.32681E-26	KO	Lilr4b	0.331
Rab19	4.29102E-31	1.14114602	0.303	0.048	1.33249E-26	KO	Rab19	0.255
Mcur1	4.63722E-31	1.093268393	0.315	0.052	1.44E-26	KO	Mcur1	0.263
Tfe3	5.28109E-31	0.759417915	0.269	0.036	1.63994E-26	KO	Tfe3	0.233
Pum3	5.28357E-31	0.89000549	0.37	0.073	1.64071E-26	KO	Pum3	0.297
Adssl1	5.32497E-31	0.949619328	0.286	0.041	1.65356E-26	KO	Adssl1	0.245
Ywhab	5.54429E-31	0.75528872	0.739	0.258	1.72167E-26	KO	Ywhab	0.481
Prep	5.69075E-31	0.973948402	0.298	0.046	1.76715E-26	KO	Prep	0.252
Clec2d	5.72686E-31	0.69415891	0.63	0.189	1.77836E-26	KO	Clec2d	0.441
Pou2f2	6.05379E-31	2.83918814	0.193	0.014	1.87988E-26	KO	Pou2f2	0.179
Pglyrp2	7.36286E-31	1.289285938	0.223	0.022	2.28639E-26	KO	Pglyrp2	0.201
Samd1	7.51902E-31	1.509039297	0.265	0.036	2.33488E-26	KO	Samd1	0.229
Rab3ip	8.65564E-31	0.751961092	0.353	0.066	2.68783E-26	KO	Rab3ip	0.287
Dnaja2	8.85094E-31	0.695830741	0.63	0.187	2.74848E-26	KO	Dnaja2	0.443
Cbx3	9.51318E-31	0.908369085	0.815	0.325	2.95413E-26	KO	Cbx3	0.49
Prps1	9.88065E-31	0.77425146	0.357	0.068	3.06824E-26	KO	Prps1	0.289
Meaf6	9.8914E-31	1.202937603	0.353	0.067	3.07158E-26	KO	Meaf6	0.286
Galnt12	1.04107E-30	1.119781196	0.248	0.03	3.23283E-26	KO	Galnt12	0.218
Lpin2	1.14471E-30	0.991672389	0.34	0.062	3.55466E-26	KO	Lpin2	0.278
Jade2	1.17033E-30	1.138407319	0.336	0.062	3.63422E-26	KO	Jade2	0.274
Slc35e1	1.19098E-30	1.324037932	0.261	0.035	3.69834E-26	KO	Slc35e1	0.226
Stk26	1.19839E-30	1.044639604	0.34	0.062	3.72137E-26	KO	Stk26	0.278
Smc4	1.24415E-30	1.035861904	0.706	0.258	3.86346E-26	KO	Smc4	0.448
Mafg	1.28595E-30	0.809679163	0.324	0.056	3.99327E-26	KO	Mafg	0.268
Bccip	1.49978E-30	0.769689686	0.399	0.086	4.65728E-26	KO	Bccip	0.313
Arl1	1.53077E-30	0.726155082	0.538	0.147	4.7535E-26	KO	Arl1	0.391
Htatsf1	1.53671E-30	0.909029337	0.328	0.058	4.77196E-26	KO	Htatsf1	0.27
Gfod1	1.58919E-30	1.863292607	0.21	0.019	4.93492E-26	KO	Gfod1	0.191
Cmtm7	1.72124E-30	0.926272823	0.744	0.269	5.34496E-26	KO	Cmtm7	0.475
Cul2	1.73553E-30	0.945003961	0.324	0.057	5.38933E-26	KO	Cul2	0.267
Hspa8	1.85191E-30	0.74410049	0.966	0.784	5.75074E-26	KO	Hspa8	0.182
Cxcr4	1.92246E-30	0.862040702	0.424	0.098	5.9698E-26	KO	Cxcr4	0.326
Arnt2	1.99014E-30	2.265472973	0.164	0.008	6.18E-26	KO	Arnt2	0.156
Suco	2.00338E-30	0.712760596	0.408	0.088	6.2211E-26	KO	Suco	0.32

Cdt1	2.10784E-30	0.773083501	0.378	0.077	6.54546E-26	KO	Cdt1	0.301
Gm45902	2.17838E-30	1.668190697	0.181	0.012	6.76452E-26	KO	Gm45902	0.169
Msh2	2.18739E-30	0.788244811	0.345	0.063	6.79251E-26	KO	Msh2	0.282
Mfsd6	2.3859E-30	1.412112873	0.311	0.053	7.40893E-26	KO	Mfsd6	0.258
Srsf6	2.53252E-30	0.766565064	0.668	0.208	7.86422E-26	KO	Srsf6	0.46
Erg28	2.59192E-30	0.713686525	0.471	0.115	8.04869E-26	KO	Erg28	0.356
Cfap43	2.63975E-30	1.500251729	0.21	0.019	8.19723E-26	KO	Cfap43	0.191
Kif13b	2.8633E-30	0.82791764	0.332	0.06	8.89141E-26	KO	Kif13b	0.272
Itpr3	3.17292E-30	0.786906264	0.261	0.035	9.85287E-26	KO	Itpr3	0.226
Nfe2l1	3.21611E-30	0.694503503	0.307	0.05	9.98699E-26	KO	Nfe2l1	0.257
Tap1	3.40537E-30	0.821119029	0.84	0.338	1.05747E-25	KO	Tap1	0.502
Coq10b	3.44921E-30	0.78467554	0.441	0.104	1.07108E-25	KO	Coq10b	0.337
Hsd17b7	3.60151E-30	1.671847223	0.218	0.022	1.11838E-25	KO	Hsd17b7	0.196
Pstk	3.66589E-30	1.167422131	0.265	0.037	1.13837E-25	KO	Pstk	0.228
Slfn2	3.69125E-30	0.907247724	0.458	0.113	1.14624E-25	KO	Slfn2	0.345
Wnk1	3.85802E-30	0.871835678	0.92	0.414	1.19803E-25	KO	Wnk1	0.506
Tpm3	3.93261E-30	0.897194622	0.866	0.388	1.22119E-25	KO	Tpm3	0.478
Rgs8	4.62769E-30	1.642561207	0.252	0.033	1.43704E-25	KO	Rgs8	0.219
Mon2	4.70038E-30	0.78177405	0.315	0.054	1.45961E-25	KO	Mon2	0.261
Soat1	4.73249E-30	0.697982342	0.303	0.049	1.46958E-25	KO	Soat1	0.254
Sub1	4.7712E-30	0.97250972	0.937	0.545	1.4816E-25	KO	Sub1	0.392
Slc25a24	4.81871E-30	0.860258706	0.231	0.026	1.49635E-25	KO	Slc25a24	0.205
Slc17a6	4.90214E-30	3.653582646	0.176	0.012	1.52226E-25	KO	Slc17a6	0.164
Cfl1	5.19535E-30	0.807376403	0.958	0.656	1.61331E-25	KO	Cfl1	0.302
Atp6v1c1	5.40458E-30	0.83298335	0.349	0.066	1.67828E-25	KO	Atp6v1c1	0.283
Gtf3c1	5.46553E-30	0.736902126	0.303	0.049	1.69721E-25	KO	Gtf3c1	0.254
Slbp	5.57023E-30	0.778801197	0.605	0.184	1.72972E-25	KO	Slbp	0.421
Bcl2l1	6.35588E-30	0.981561185	0.424	0.1	1.97369E-25	KO	Bcl2l1	0.324
Mcm5	6.79581E-30	1.052217557	0.508	0.143	2.1103E-25	KO	Mcm5	0.365
Lrch1	6.92481E-30	1.058684706	0.332	0.061	2.15036E-25	KO	Lrch1	0.271
St3gal4	7.04974E-30	1.063627284	0.282	0.042	2.18915E-25	KO	St3gal4	0.24
Gm28875	7.57176E-30	1.01649557	0.265	0.037	2.35126E-25	KO	Gm28875	0.228
Tbc1d5	7.93216E-30	1.077202736	0.214	0.021	2.46317E-25	KO	Tbc1d5	0.193
Atg101	7.99133E-30	0.69843037	0.361	0.071	2.48155E-25	KO	Atg101	0.29
Ppm1m	8.29444E-30	1.416528952	0.227	0.025	2.57567E-25	KO	Ppm1m	0.202
Ppa1	8.29591E-30	0.765770223	0.504	0.133	2.57613E-25	KO	Ppa1	0.371
Zfp142	8.9644E-30	0.985969049	0.265	0.037	2.78371E-25	KO	Zfp142	0.228
Gm45716	9.14429E-30	0.799720764	0.504	0.135	2.83958E-25	KO	Gm45716	0.369
Hsp90ab1	9.71622E-30	0.768362819	0.966	0.734	3.01718E-25	KO	Hsp90ab1	0.232
Trap1	1.01823E-29	0.729496431	0.361	0.072	3.16192E-25	KO	Trap1	0.289
Nlk	1.04955E-29	0.983014707	0.239	0.029	3.25916E-25	KO	Nlk	0.21
Nsd2	1.0982E-29	0.754298446	0.571	0.171	3.41023E-25	KO	Nsd2	0.4
2410002F23Ri	1.15628E-29	0.802602204	0.286	0.044	3.5906E-25	KO	2410002F23Ri	0.242
Mkrn2	1.20073E-29	1.45139128	0.273	0.04	3.72862E-25	KO	Mkrn2	0.233
Nol7	1.22192E-29	0.84707379	0.836	0.339	3.79442E-25	KO	Nol7	0.497
Ahi1	1.28541E-29	0.831007707	0.277	0.041	3.99157E-25	KO	Ahi1	0.236
Eef1akmt2	1.36641E-29	1.174673406	0.273	0.04	4.24311E-25	KO	Eef1akmt2	0.233
Snd1	1.5027E-29	0.7604684	0.387	0.083	4.66633E-25	KO	Snd1	0.304
N4bp1	1.50986E-29	1.116921633	0.382	0.082	4.68858E-25	KO	N4bp1	0.3
Ints3	1.59582E-29	1.779900568	0.218	0.023	4.95551E-25	KO	Ints3	0.195
Chn2	1.66369E-29	2.353376627	0.16	0.008	5.16624E-25	KO	Chn2	0.152

Cntln	1.73127E-29	1.784951208	0.168	0.01	5.37612E-25	KO	Cntln	0.158
Cytip	1.85057E-29	0.859973706	0.845	0.35	5.74656E-25	KO	Cytip	0.495
Mrps6	1.90661E-29	0.763158468	0.378	0.081	5.92061E-25	KO	Mrps6	0.297
Tex2	1.94723E-29	0.784121768	0.256	0.035	6.04673E-25	KO	Tex2	0.221
Map3k7	1.95386E-29	0.923949563	0.319	0.057	6.06733E-25	KO	Map3k7	0.262
Cd82	1.96692E-29	0.796494189	0.777	0.289	6.10789E-25	KO	Cd82	0.488
Dek	2.16796E-29	0.95693231	0.773	0.304	6.73217E-25	KO	Dek	0.469
Pola1	2.19365E-29	0.96568239	0.286	0.045	6.81194E-25	KO	Pola1	0.241
Abrac1	2.30954E-29	0.857201078	0.908	0.407	7.17182E-25	KO	Abrac1	0.501
Pcyt1a	2.37247E-29	0.943289656	0.366	0.075	7.36724E-25	KO	Pcyt1a	0.291
Tbc1d20	2.42205E-29	0.835834834	0.307	0.052	7.52119E-25	KO	Tbc1d20	0.255
Ubfd1	2.69152E-29	1.180642224	0.261	0.037	8.35799E-25	KO	Ubfd1	0.224
Crkl	2.81072E-29	0.820365082	0.307	0.053	8.72813E-25	KO	Crkl	0.254
Brcc3	2.82681E-29	0.969478187	0.361	0.073	8.77809E-25	KO	Brcc3	0.288
Zbp1	2.87828E-29	0.713391514	0.357	0.071	8.93792E-25	KO	Zbp1	0.286
Prr12	3.18286E-29	1.933702289	0.214	0.022	9.88373E-25	KO	Prr12	0.192
Dclre1c	3.3244E-29	1.165663472	0.214	0.022	1.03233E-24	KO	Dclre1c	0.192
Ciao1	3.35632E-29	1.378487719	0.248	0.033	1.04224E-24	KO	Ciao1	0.215
Kpna2	3.45904E-29	1.674817969	0.223	0.025	1.07414E-24	KO	Kpna2	0.198
Ttll12	4.04313E-29	0.832666791	0.252	0.034	1.25551E-24	KO	Ttll12	0.218
Spata5	4.12887E-29	1.151277	0.227	0.026	1.28214E-24	KO	Spata5	0.201
Llgl1	4.20083E-29	1.772862596	0.21	0.021	1.30448E-24	KO	Llgl1	0.189
Xdh	4.55349E-29	1.067351942	0.277	0.042	1.414E-24	KO	Xdh	0.235
Tmem181a	4.58118E-29	0.770083341	0.286	0.045	1.42259E-24	KO	Tmem181a	0.241
Tbc1d9b	4.60517E-29	0.918893671	0.277	0.042	1.43004E-24	KO	Tbc1d9b	0.235
Rrm1	5.19174E-29	1.012135204	0.513	0.148	1.61219E-24	KO	Rrm1	0.365
Sreb1	5.30074E-29	0.742032258	0.286	0.045	1.64604E-24	KO	Sreb1	0.241
Ctnna1	5.72831E-29	0.974188205	0.261	0.037	1.77881E-24	KO	Ctnna1	0.224
Umps	5.81995E-29	1.097964472	0.273	0.041	1.80727E-24	KO	Umps	0.232
Brd8	5.96038E-29	0.750890485	0.424	0.1	1.85088E-24	KO	Brd8	0.324
Eif3a	6.7922E-29	0.753983009	0.828	0.317	2.10918E-24	KO	Eif3a	0.511
5430416N02R	7.0197E-29	1.044547007	0.29	0.048	2.17983E-24	KO	5430416N02R	0.242
Ccnc	7.53651E-29	1.091649847	0.252	0.035	2.34031E-24	KO	Ccnc	0.217
Cdk4	7.63434E-29	0.756658176	0.55	0.164	2.37069E-24	KO	Cdk4	0.386
Arrdc3	7.83377E-29	0.891715658	0.248	0.033	2.43262E-24	KO	Arrdc3	0.215
Armc7	8.25348E-29	0.866649984	0.273	0.041	2.56295E-24	KO	Armc7	0.232
Ly9	8.9013E-29	1.004298364	0.231	0.028	2.76412E-24	KO	Ly9	0.203
Nipal3	9.94212E-29	1.47078684	0.206	0.02	3.08733E-24	KO	Nipal3	0.186
Nat10	1.00051E-28	1.366430077	0.231	0.028	3.1069E-24	KO	Nat10	0.203
Nfkbie	1.05337E-28	0.779312934	0.332	0.062	3.27103E-24	KO	Nfkbie	0.27
Gpr160	1.13419E-28	1.392605243	0.214	0.023	3.522E-24	KO	Gpr160	0.191
Anp32e	1.14946E-28	0.821199219	0.697	0.243	3.56942E-24	KO	Anp32e	0.454
Gse1	1.16249E-28	1.46293777	0.261	0.038	3.60989E-24	KO	Gse1	0.223
Vcpkmt	1.18203E-28	0.958754897	0.277	0.043	3.67057E-24	KO	Vcpkmt	0.234
Lactb2	1.19623E-28	1.094853872	0.218	0.024	3.71465E-24	KO	Lactb2	0.194
Ak3	1.3244E-28	0.835248804	0.261	0.038	4.11267E-24	KO	Ak3	0.223
Med11	1.65947E-28	0.864688763	0.345	0.068	5.15315E-24	KO	Med11	0.277
Aifm1	1.6793E-28	1.2059449	0.248	0.034	5.21473E-24	KO	Aifm1	0.214
Tdg	1.78257E-28	0.761451462	0.399	0.091	5.53542E-24	KO	Tdg	0.308
Tma7	1.81144E-28	0.863916459	0.912	0.443	5.62507E-24	KO	Tma7	0.469
Atl2	2.05206E-28	0.70787811	0.239	0.031	6.37225E-24	KO	Atl2	0.208

Bsdc1	2.05424E-28	1.627364441	0.252	0.036	6.37903E-24	KO	Bsdc1	0.216
Zdhhc8	2.06251E-28	0.760659541	0.214	0.023	6.40471E-24	KO	Zdhhc8	0.191
Gnptab	2.13159E-28	0.823678411	0.29	0.048	6.61922E-24	KO	Gnptab	0.242
Dhx29	2.26929E-28	1.290153207	0.21	0.022	7.04683E-24	KO	Dhx29	0.188
Nelfa	2.26973E-28	0.88303777	0.256	0.037	7.04819E-24	KO	Nelfa	0.219
Cdkn2aip	2.66258E-28	0.778765356	0.273	0.042	8.26812E-24	KO	Cdkn2aip	0.231
Pip4k2b	2.73808E-28	0.737383732	0.303	0.053	8.50255E-24	KO	Pip4k2b	0.25
Pola2	2.77061E-28	0.778409693	0.29	0.048	8.60358E-24	KO	Pola2	0.242
Ptprs	3.12665E-28	0.895263701	0.529	0.154	9.70918E-24	KO	Ptprs	0.375
Rab3gap2	3.17223E-28	1.036005347	0.223	0.026	9.85073E-24	KO	Rab3gap2	0.197
Atf6b	3.53798E-28	0.89756801	0.261	0.038	1.09865E-23	KO	Atf6b	0.223
Ebpl	3.54175E-28	0.860561232	0.34	0.067	1.09982E-23	KO	Ebpl	0.273
Rwdd1	3.62853E-28	0.715989939	0.769	0.288	1.12677E-23	KO	Rwdd1	0.481
Mfap3	4.36231E-28	1.655042693	0.202	0.02	1.35463E-23	KO	Mfap3	0.182
Hells	4.3668E-28	1.014297759	0.412	0.101	1.35602E-23	KO	Hells	0.311
Fam168a	4.38599E-28	0.994788197	0.231	0.029	1.36198E-23	KO	Fam168a	0.202
Hmgxb4	4.46877E-28	1.764854392	0.181	0.014	1.38769E-23	KO	Hmgxb4	0.167
Mybbp1a	5.02166E-28	0.811968033	0.45	0.114	1.55937E-23	KO	Mybbp1a	0.336
Gsdmd	5.13504E-28	0.696134838	0.307	0.055	1.59458E-23	KO	Gsdmd	0.252
Odc1	6.08962E-28	0.80279384	0.878	0.398	1.89101E-23	KO	Odc1	0.48
Dusp6	6.71541E-28	1.242374903	0.277	0.045	2.08534E-23	KO	Dusp6	0.232
Tmem106c	6.90892E-28	1.301358212	0.181	0.014	2.14543E-23	KO	Tmem106c	0.167
Srd5a3	8.27416E-28	1.084285389	0.214	0.024	2.56937E-23	KO	Srd5a3	0.19
Gbp6	8.31795E-28	1.299004453	0.176	0.013	2.58297E-23	KO	Gbp6	0.163
Siah2	8.76813E-28	0.774943288	0.273	0.043	2.72277E-23	KO	Siah2	0.23
Fen1	9.48118E-28	0.72210647	0.378	0.085	2.94419E-23	KO	Fen1	0.293
Gbf1	9.73964E-28	0.906787429	0.282	0.046	3.02445E-23	KO	Gbf1	0.236
Usp1	1.06583E-27	0.7944149	0.454	0.117	3.30972E-23	KO	Usp1	0.337
Edaradd	1.11372E-27	2.277525868	0.143	0.006	3.45845E-23	KO	Edaradd	0.137
Dlat	1.1325E-27	0.779765386	0.277	0.045	3.51677E-23	KO	Dlat	0.232
Trmt10a	1.24226E-27	1.937647479	0.16	0.01	3.8576E-23	KO	Trmt10a	0.15
Gtf2h1	1.41332E-27	1.103348765	0.286	0.049	4.38879E-23	KO	Gtf2h1	0.237
Rad51	1.43616E-27	1.191766332	0.311	0.059	4.45972E-23	KO	Rad51	0.252
Stk17b	1.50428E-27	0.837861805	0.874	0.379	4.67123E-23	KO	Stk17b	0.495
Ccr8	1.50914E-27	1.85583318	0.16	0.01	4.68633E-23	KO	Ccr8	0.15
Zfp664	1.59598E-27	1.220282451	0.261	0.039	4.956E-23	KO	Zfp664	0.222
Arl8a	1.68602E-27	1.035316689	0.248	0.036	5.23561E-23	KO	Arl8a	0.212
Laptm5	1.81335E-27	0.790915846	0.962	0.586	5.63099E-23	KO	Laptm5	0.376
Zfp655	1.81655E-27	0.77049015	0.252	0.037	5.64093E-23	KO	Zfp655	0.215
Gnai2	1.82018E-27	0.792255908	0.924	0.491	5.65222E-23	KO	Gnai2	0.433
Dnajc14	1.8892E-27	0.721854136	0.277	0.045	5.86654E-23	KO	Dnajc14	0.232
Mrps28	2.05103E-27	0.726668305	0.349	0.073	6.36906E-23	KO	Mrps28	0.276
Cdc42	2.15062E-27	0.802013987	0.933	0.465	6.67831E-23	KO	Cdc42	0.468
Cox18	2.15199E-27	1.012905154	0.273	0.044	6.68256E-23	KO	Cox18	0.229
Fbxo9	2.25568E-27	0.715808179	0.277	0.045	7.00457E-23	KO	Fbxo9	0.232
1810030007R	2.3365E-27	0.776827925	0.248	0.036	7.25554E-23	KO	1810030007R	0.212
Cit	2.44328E-27	0.881545588	0.315	0.061	7.58711E-23	KO	Cit	0.254
Hprt	2.47232E-27	0.707074796	0.731	0.256	7.67728E-23	KO	Hprt	0.475
Isg20l2	2.56581E-27	1.141578511	0.277	0.046	7.9676E-23	KO	Isg20l2	0.231
Cyfi1	2.65558E-27	1.154971204	0.277	0.046	8.24636E-23	KO	Cyfi1	0.231
Hmgn2	2.79182E-27	1.129901079	0.605	0.219	8.66944E-23	KO	Hmgn2	0.386

Sec11c	2.83538E-27	0.867857847	0.84	0.359	8.8047E-23	KO	Sec11c	0.481
Tnfrsf18	3.08019E-27	0.832879699	0.866	0.39	9.56493E-23	KO	Tnfrsf18	0.476
Qdpr	3.2913E-27	0.699467217	0.395	0.091	1.02205E-22	KO	Qdpr	0.304
Ubqln1	3.35766E-27	0.756289563	0.37	0.084	1.04265E-22	KO	Ubqln1	0.286
Gripap1	3.4945E-27	0.715520849	0.227	0.029	1.08515E-22	KO	Gripap1	0.198
Ubash3a	3.55649E-27	1.14615996	0.311	0.06	1.1044E-22	KO	Ubash3a	0.251
Atxn7l1	3.59876E-27	0.846048335	0.324	0.063	1.11752E-22	KO	Atxn7l1	0.261
Zbtb44	3.66627E-27	1.086055447	0.311	0.059	1.13849E-22	KO	Zbtb44	0.252
Lgals3	4.21636E-27	1.004692074	0.794	0.332	1.30931E-22	KO	Lgals3	0.462
Diaph3	4.42948E-27	0.855470905	0.29	0.051	1.37549E-22	KO	Diaph3	0.239
Bcl3	4.43669E-27	1.425195686	0.239	0.034	1.37773E-22	KO	Bcl3	0.205
Ptprc	4.80207E-27	0.876569824	0.966	0.619	1.49119E-22	KO	Ptprc	0.347
AC160336.1	4.94702E-27	0.794300193	0.504	0.151	1.5362E-22	KO	AC160336.1	0.353
Gnpda2	4.97135E-27	0.756749756	0.303	0.057	1.54375E-22	KO	Gnpda2	0.246
Hira	5.09185E-27	0.821553102	0.282	0.048	1.58117E-22	KO	Hira	0.234
Hsf1	5.13563E-27	1.191127463	0.239	0.034	1.59477E-22	KO	Hsf1	0.205
Rbl1	5.17808E-27	0.974944093	0.311	0.06	1.60795E-22	KO	Rbl1	0.251
Cept1	5.50001E-27	0.935488368	0.294	0.053	1.70792E-22	KO	Cept1	0.241
Sf3a3	5.56827E-27	0.874342802	0.399	0.095	1.72912E-22	KO	Sf3a3	0.304
Bach2	5.59927E-27	2.052039858	0.168	0.013	1.73874E-22	KO	Bach2	0.155
Ptprcap	6.25315E-27	0.736301613	0.903	0.424	1.94179E-22	KO	Ptprcap	0.479
Sart3	6.26886E-27	0.986352737	0.298	0.055	1.94667E-22	KO	Sart3	0.243
Adcy3	6.85209E-27	1.386813165	0.206	0.023	2.12778E-22	KO	Adcy3	0.183
Cwc25	6.91815E-27	0.853841862	0.286	0.05	2.14829E-22	KO	Cwc25	0.236
Zfp62	7.4605E-27	1.145984446	0.256	0.039	2.31671E-22	KO	Zfp62	0.217
Cad	7.50052E-27	0.707600434	0.311	0.06	2.32914E-22	KO	Cad	0.251
Mapkap1	7.51372E-27	0.824603468	0.248	0.037	2.33324E-22	KO	Mapkap1	0.211
Heatr1	7.60044E-27	1.154854888	0.227	0.03	2.36017E-22	KO	Heatr1	0.197
Atl3	7.99412E-27	1.173962026	0.332	0.068	2.48241E-22	KO	Atl3	0.264
Hnrnph3	8.30412E-27	0.725668879	0.353	0.077	2.57868E-22	KO	Hnrnph3	0.276
Ndr3	8.88024E-27	0.738787543	0.286	0.05	2.75758E-22	KO	Ndr3	0.236
Gabpb1	9.81123E-27	0.728702973	0.336	0.07	3.04668E-22	KO	Gabpb1	0.266
Spry1	1.09198E-26	1.586786191	0.185	0.017	3.39093E-22	KO	Spry1	0.168
Id2	1.24563E-26	0.83603225	0.924	0.494	3.86805E-22	KO	Id2	0.43
Hmces	1.27119E-26	1.20548577	0.256	0.04	3.94742E-22	KO	Hmces	0.216
Bspry	1.35467E-26	1.185970137	0.273	0.046	4.20666E-22	KO	Bspry	0.227
Vsir	1.40958E-26	0.785270177	0.315	0.062	4.37716E-22	KO	Vsir	0.253
Rnf31	1.4486E-26	0.712129584	0.214	0.026	4.49834E-22	KO	Rnf31	0.188
Arl6ip1	1.56825E-26	0.864798567	0.899	0.423	4.86989E-22	KO	Arl6ip1	0.476
Actr3	1.59944E-26	0.82455933	0.912	0.459	4.96674E-22	KO	Actr3	0.453
Etaa1	1.7708E-26	0.72101115	0.202	0.022	5.49887E-22	KO	Etaa1	0.18
Nsf	1.77721E-26	0.964293493	0.307	0.06	5.51878E-22	KO	Nsf	0.247
Nrgn	1.84727E-26	1.537382945	0.668	0.288	5.73631E-22	KO	Nrgn	0.38
Aldh18a1	1.86033E-26	0.978385962	0.239	0.035	5.77689E-22	KO	Aldh18a1	0.204
Fkbp2	2.05246E-26	0.693674887	0.555	0.169	6.3735E-22	KO	Fkbp2	0.386
Hnrnpa3	2.12896E-26	0.862268145	0.887	0.449	6.61106E-22	KO	Hnrnpa3	0.438
Mdh2	2.15791E-26	0.701835492	0.853	0.338	6.70096E-22	KO	Mdh2	0.515
Ctps2	2.33342E-26	0.730314465	0.248	0.038	7.24596E-22	KO	Ctps2	0.21
Asf1b	2.5294E-26	1.482249496	0.294	0.056	7.85454E-22	KO	Asf1b	0.238
Cntrob	2.65325E-26	2.530249265	0.118	0.002	8.23913E-22	KO	Cntrob	0.116
Ncf1	2.73146E-26	2.044509123	0.189	0.019	8.48199E-22	KO	Ncf1	0.17

Lamc1	2.84632E-26	0.973647133	0.311	0.062	8.83867E-22	KO	Lamc1	0.249
Tbc1d22b	2.84939E-26	1.334588572	0.227	0.031	8.84822E-22	KO	Tbc1d22b	0.196
Tmem109	2.95737E-26	0.71113714	0.412	0.103	9.18353E-22	KO	Tmem109	0.309
Taf4	2.96111E-26	1.007078494	0.193	0.02	9.19514E-22	KO	Taf4	0.173
Dcaf1	3.00851E-26	0.857127231	0.269	0.045	9.34234E-22	KO	Dcaf1	0.224
Psmd5	3.72176E-26	0.954186435	0.235	0.034	1.15572E-21	KO	Psmd5	0.201
Ccdc43	3.88394E-26	1.324797015	0.248	0.038	1.20608E-21	KO	Ccdc43	0.21
Itfg1	3.94144E-26	0.730380392	0.328	0.068	1.22393E-21	KO	Itfg1	0.26
Jpt2	4.21147E-26	1.268109228	0.214	0.027	1.30779E-21	KO	Jpt2	0.187
Cd80	4.27002E-26	0.944258762	0.227	0.031	1.32597E-21	KO	Cd80	0.196
Diablo	4.5982E-26	0.725122021	0.227	0.031	1.42788E-21	KO	Diablo	0.196
Lgalsl	4.90329E-26	1.300847247	0.185	0.018	1.52262E-21	KO	Lgalsl	0.167
O610030E20Ri	5.55194E-26	0.70613065	0.273	0.047	1.72404E-21	KO	O610030E20Ri	0.226
Extl3	5.83802E-26	0.886708183	0.273	0.047	1.81288E-21	KO	Extl3	0.226
Patl1	6.43269E-26	1.060280445	0.223	0.03	1.99754E-21	KO	Patl1	0.193
Gpm6b	6.97244E-26	1.037513061	0.269	0.046	2.16515E-21	KO	Gpm6b	0.223
Rbm10	8.04237E-26	0.720251914	0.277	0.049	2.4974E-21	KO	Rbm10	0.228
Il12rb1	8.14204E-26	0.91121311	0.223	0.03	2.52835E-21	KO	Il12rb1	0.193
Rwdd4a	8.38361E-26	0.812143915	0.294	0.056	2.60336E-21	KO	Rwdd4a	0.238
Kif18b	8.58031E-26	2.238577646	0.143	0.008	2.66444E-21	KO	Kif18b	0.135
Kcnq1ot1	8.62926E-26	0.792940191	0.361	0.084	2.67964E-21	KO	Kcnq1ot1	0.277
Prkaca	9.24612E-26	0.843111667	0.239	0.036	2.8712E-21	KO	Prkaca	0.203
Wipf2	9.44511E-26	0.711976494	0.277	0.049	2.93299E-21	KO	Wipf2	0.228
Ubap2	9.46593E-26	0.696636976	0.324	0.067	2.93945E-21	KO	Ubap2	0.257
Fam20b	9.67913E-26	1.040647141	0.197	0.022	3.00566E-21	KO	Fam20b	0.175
Dpy19l1	1.05275E-25	1.050905372	0.273	0.048	3.26912E-21	KO	Dpy19l1	0.225
Rab2b	1.09088E-25	1.562018223	0.151	0.01	3.38751E-21	KO	Rab2b	0.141
Fbxo34	1.14431E-25	1.52652415	0.176	0.016	3.55344E-21	KO	Fbxo34	0.16
Rhot2	1.22905E-25	0.896164667	0.235	0.035	3.81658E-21	KO	Rhot2	0.2
Cyp51	1.2447E-25	0.823374506	0.328	0.069	3.86516E-21	KO	Cyp51	0.259
Ezh1	1.32015E-25	1.090053647	0.227	0.032	4.09948E-21	KO	Ezh1	0.195
Nucks1	1.33339E-25	0.726072925	0.756	0.29	4.14056E-21	KO	Nucks1	0.466
Sertad2	1.33874E-25	0.69774935	0.273	0.048	4.15719E-21	KO	Sertad2	0.225
Eif4g2	1.41546E-25	0.766204225	0.895	0.397	4.39543E-21	KO	Eif4g2	0.498
Fdxr	1.58464E-25	0.707516266	0.286	0.053	4.92078E-21	KO	Fdxr	0.233
Inpp5b	1.64682E-25	0.829009166	0.256	0.042	5.11388E-21	KO	Inpp5b	0.214
Cotl1	1.67292E-25	0.879140306	0.857	0.416	5.19491E-21	KO	Cotl1	0.441
Rps6ka4	1.7296E-25	0.749446293	0.244	0.038	5.37093E-21	KO	Rps6ka4	0.206
Lsp1	1.81931E-25	0.724915153	0.887	0.383	5.64951E-21	KO	Lsp1	0.504
1190007I07Ril	1.90737E-25	1.019790057	0.282	0.052	5.92297E-21	KO	1190007I07Ril	0.23
Slc25a30	1.92277E-25	0.820684149	0.256	0.042	5.97077E-21	KO	Slc25a30	0.214
Sdf2l1	1.9455E-25	0.711042232	0.395	0.098	6.04136E-21	KO	Sdf2l1	0.297
Hyou1	2.13171E-25	0.81296023	0.256	0.042	6.6196E-21	KO	Hyou1	0.214
Sclt1	2.50893E-25	0.99843733	0.223	0.031	7.79099E-21	KO	Sclt1	0.192
Cep55	2.63003E-25	1.1458324	0.252	0.041	8.16704E-21	KO	Cep55	0.211
Gnl2	2.85582E-25	0.729696907	0.273	0.049	8.86819E-21	KO	Gnl2	0.224
Rac2	2.9794E-25	0.769418811	0.924	0.56	9.25193E-21	KO	Rac2	0.364
Vamp7	3.04872E-25	0.826346193	0.248	0.039	9.46718E-21	KO	Vamp7	0.209
Mettl3	3.27106E-25	0.965748255	0.168	0.014	1.01576E-20	KO	Mettl3	0.154
Ints10	3.39597E-25	1.101006803	0.21	0.027	1.05455E-20	KO	Ints10	0.183
Fam53c	3.48442E-25	0.888044833	0.265	0.046	1.08202E-20	KO	Fam53c	0.219

Usp37	3.80704E-25	0.9914634	0.29	0.056	1.1822E-20	KO	Usp37	0.234
Il10rb	3.94708E-25	0.966470348	0.269	0.047	1.22569E-20	KO	Il10rb	0.222
Slc35d1	4.04892E-25	2.223355027	0.16	0.013	1.25731E-20	KO	Slc35d1	0.147
Suox	4.09368E-25	0.997339876	0.185	0.019	1.27121E-20	KO	Suox	0.166
Xpot	4.55659E-25	1.264349674	0.282	0.053	1.41496E-20	KO	Xpot	0.229
Secisbp2l	4.59857E-25	0.70732128	0.269	0.047	1.42799E-20	KO	Secisbp2l	0.222
Tmbim1	4.91932E-25	1.095991889	0.256	0.043	1.5276E-20	KO	Tmbim1	0.213
Rrad	5.3175E-25	1.227570017	0.202	0.025	1.65124E-20	KO	Rrad	0.177
E2f1	5.32726E-25	0.918584047	0.265	0.046	1.65427E-20	KO	E2f1	0.219
Tmem184b	5.36561E-25	1.156806382	0.16	0.013	1.66618E-20	KO	Tmem184b	0.147
Ramp3	5.38463E-25	0.771238519	0.345	0.079	1.67209E-20	KO	Ramp3	0.266
Arpc2	5.79381E-25	0.736132305	0.916	0.523	1.79915E-20	KO	Arpc2	0.393
Hmg20a	6.25336E-25	0.803506543	0.193	0.022	1.94186E-20	KO	Hmg20a	0.171
Gzmk	6.5558E-25	1.842960745	0.248	0.042	2.03577E-20	KO	Gzmk	0.206
Haus1	6.74879E-25	0.753608423	0.265	0.046	2.0957E-20	KO	Haus1	0.219
Polk	7.29625E-25	0.806999254	0.231	0.035	2.2657E-20	KO	Polk	0.196
Tm9sf4	7.70339E-25	0.976069802	0.261	0.045	2.39213E-20	KO	Tm9sf4	0.216
Pgrmc2	7.88336E-25	0.779334432	0.273	0.05	2.44802E-20	KO	Pgrmc2	0.223
Parp9	7.90573E-25	0.925484158	0.29	0.056	2.45497E-20	KO	Parp9	0.234
Cbx8	7.9816E-25	1.660558528	0.126	0.005	2.47852E-20	KO	Cbx8	0.121
Rybp	8.38319E-25	0.880549591	0.202	0.025	2.60323E-20	KO	Rybp	0.177
Slc25a20	9.1069E-25	0.814953267	0.239	0.038	2.82796E-20	KO	Slc25a20	0.201
Ing5	9.37162E-25	0.694447198	0.261	0.045	2.91017E-20	KO	Ing5	0.216
Plcb2	9.63015E-25	2.377940969	0.134	0.007	2.99045E-20	KO	Plcb2	0.127
Ptpn5	9.70929E-25	1.611238379	0.139	0.008	3.01503E-20	KO	Ptpn5	0.131
Prdm2	1.00653E-24	1.030900233	0.231	0.035	3.12557E-20	KO	Prdm2	0.196
Seh1l	1.01088E-24	0.98934308	0.298	0.061	3.13909E-20	KO	Seh1l	0.237
Arpc1b	1.02082E-24	0.722588716	0.908	0.462	3.16995E-20	KO	Arpc1b	0.446
Ap1g2	1.09289E-24	0.8266291	0.252	0.042	3.39376E-20	KO	Ap1g2	0.21
Bcl2l13	1.1548E-24	0.861135757	0.197	0.024	3.58601E-20	KO	Bcl2l13	0.173
Rsrp1	1.19769E-24	0.703499947	0.815	0.327	3.71918E-20	KO	Rsrp1	0.488
Rnf121	1.27536E-24	0.865623787	0.248	0.041	3.96038E-20	KO	Rnf121	0.207
Hsdl2	1.38443E-24	1.328358033	0.197	0.024	4.29908E-20	KO	Hsdl2	0.173
Slc5a3	1.46273E-24	0.938482438	0.269	0.049	4.54223E-20	KO	Slc5a3	0.22
Mdn1	1.51964E-24	0.912155947	0.294	0.059	4.71893E-20	KO	Mdn1	0.235
Nop58	1.53427E-24	0.750717753	0.508	0.158	4.76436E-20	KO	Nop58	0.35
Snx25	1.54384E-24	1.329455651	0.206	0.027	4.79409E-20	KO	Snx25	0.179
Med20	1.55135E-24	1.419284613	0.214	0.03	4.81742E-20	KO	Med20	0.184
Lzts1	1.56209E-24	0.800687097	0.197	0.024	4.85076E-20	KO	Lzts1	0.173
Cd101	1.58455E-24	1.482041144	0.164	0.014	4.92051E-20	KO	Cd101	0.15
Mthfs	1.6255E-24	1.319452011	0.168	0.015	5.04767E-20	KO	Mthfs	0.153
Cdk19	1.6765E-24	0.904647709	0.227	0.034	5.20602E-20	KO	Cdk19	0.193
Sec61b	1.69998E-24	0.772926309	0.924	0.476	5.27895E-20	KO	Sec61b	0.448
Pitpnm2	1.71636E-24	1.259354869	0.231	0.036	5.32981E-20	KO	Pitpnm2	0.195
Osbp	1.904E-24	1.265364281	0.223	0.033	5.9125E-20	KO	Osbp	0.19
Ccdc186	1.90592E-24	0.932361855	0.252	0.043	5.91845E-20	KO	Ccdc186	0.209
Rmi2	1.99444E-24	1.970636245	0.189	0.022	6.19334E-20	KO	Rmi2	0.167
Cysltr2	2.036E-24	0.819395017	0.261	0.046	6.3224E-20	KO	Cysltr2	0.215
Plod2	2.14675E-24	0.990797316	0.231	0.036	6.66629E-20	KO	Plod2	0.195
Clspn	2.32008E-24	1.04524775	0.328	0.074	7.20456E-20	KO	Clspn	0.254
Tpp1	2.48195E-24	1.156287867	0.239	0.038	7.7072E-20	KO	Tpp1	0.201

Gm47015	2.56526E-24	1.376536694	0.248	0.042	7.96591E-20	KO	Gm47015	0.206
2810004N23R	2.60621E-24	0.765052949	0.261	0.046	8.09307E-20	KO	2810004N23R	0.215
Icmt	2.79846E-24	1.038080839	0.223	0.033	8.69004E-20	KO	Icmt	0.19
Smc2	2.80144E-24	1.183228749	0.496	0.17	8.6993E-20	KO	Smc2	0.326
Cyb561d2	2.83749E-24	1.165537187	0.214	0.03	8.81125E-20	KO	Cyb561d2	0.184
Qrfp	2.89945E-24	1.380223973	0.176	0.018	9.00366E-20	KO	Qrfp	0.158
Tcrg-C2	3.02525E-24	1.460632847	0.189	0.022	9.3943E-20	KO	Tcrg-C2	0.167
Wnt10b	3.09363E-24	2.263642784	0.151	0.012	9.60665E-20	KO	Wnt10b	0.139
Slc52a3	3.40244E-24	1.293629035	0.16	0.013	1.05656E-19	KO	Slc52a3	0.147
Snrpf	3.73429E-24	0.721552016	0.891	0.431	1.15961E-19	KO	Snrpf	0.46
Polb	3.79652E-24	0.921464316	0.277	0.053	1.17893E-19	KO	Polb	0.224
Galnt7	3.82149E-24	0.95053081	0.218	0.032	1.18669E-19	KO	Galnt7	0.186
Nuf2	3.90163E-24	1.554870928	0.218	0.032	1.21157E-19	KO	Nuf2	0.186
Hspbp1	3.95328E-24	0.943607025	0.332	0.076	1.22761E-19	KO	Hspbp1	0.256
Slf2	4.00955E-24	0.814731553	0.235	0.038	1.24509E-19	KO	Slf2	0.197
Hivep3	4.3021E-24	1.892944636	0.185	0.021	1.33593E-19	KO	Hivep3	0.164
Ncbp2	4.65556E-24	0.862317603	0.361	0.088	1.44569E-19	KO	Ncbp2	0.273
Iffo2	5.17187E-24	1.051183074	0.151	0.012	1.60602E-19	KO	Iffo2	0.139
Gabpa	5.56206E-24	0.745377492	0.294	0.06	1.72719E-19	KO	Gabpa	0.234
Atp2b2	5.6482E-24	2.44629664	0.143	0.01	1.75394E-19	KO	Atp2b2	0.133
Mcm4	6.2643E-24	0.787742435	0.424	0.12	1.94525E-19	KO	Mcm4	0.304
Mb21d1	6.44444E-24	1.280137648	0.143	0.01	2.00119E-19	KO	Mb21d1	0.133
Atp5f1	6.49921E-24	0.745609553	0.878	0.41	2.0182E-19	KO	Atp5f1	0.468
Gtpbp4	6.78954E-24	0.806192751	0.445	0.126	2.10836E-19	KO	Gtpbp4	0.319
Tmprss6	6.85414E-24	1.785135122	0.168	0.016	2.12842E-19	KO	Tmprss6	0.152
Erf	7.12508E-24	1.318281823	0.168	0.016	2.21255E-19	KO	Erf	0.152
Kif15	7.25693E-24	0.869208182	0.37	0.095	2.25349E-19	KO	Kif15	0.275
Cd160	7.28987E-24	1.035813493	0.307	0.066	2.26372E-19	KO	Cd160	0.241
Wdr6	7.5054E-24	0.726679148	0.206	0.028	2.33065E-19	KO	Wdr6	0.178
Cpox	8.80984E-24	1.407381748	0.193	0.024	2.73572E-19	KO	Cpox	0.169
Tgif2	8.88956E-24	1.038384585	0.168	0.016	2.76048E-19	KO	Tgif2	0.152
Klhl28	9.0218E-24	0.710635211	0.244	0.041	2.80154E-19	KO	Klhl28	0.203
Cd55	9.04601E-24	1.379020768	0.181	0.02	2.80906E-19	KO	Cd55	0.161
Ndc80	9.05575E-24	0.969110167	0.235	0.038	2.81208E-19	KO	Ndc80	0.197
Exoc3	9.40081E-24	0.722864015	0.294	0.061	2.91923E-19	KO	Exoc3	0.233
Nrbf2	9.49531E-24	0.814193649	0.282	0.056	2.94858E-19	KO	Nrbf2	0.226
Tbc1d10a	1.1001E-23	1.053529557	0.244	0.041	3.41613E-19	KO	Tbc1d10a	0.203
Spry2	1.13523E-23	1.082988675	0.214	0.031	3.52524E-19	KO	Spry2	0.183
Abtb2	1.18062E-23	0.890812789	0.181	0.02	3.66618E-19	KO	Abtb2	0.161
Tpx2	1.23267E-23	1.091125456	0.34	0.083	3.8278E-19	KO	Tpx2	0.257
Tmed8	1.23734E-23	0.983600995	0.181	0.02	3.84231E-19	KO	Tmed8	0.161
Usp24	1.26034E-23	0.891690041	0.282	0.056	3.91374E-19	KO	Usp24	0.226
Eomes	1.40943E-23	1.665781463	0.218	0.034	4.3767E-19	KO	Eomes	0.184
Tob1	1.41509E-23	1.559124566	0.176	0.019	4.39429E-19	KO	Tob1	0.157
Rad54l	1.43776E-23	0.993130237	0.21	0.03	4.46466E-19	KO	Rad54l	0.18
Taf9b	1.66945E-23	1.320086399	0.16	0.014	5.18415E-19	KO	Taf9b	0.146
Aspm	1.70447E-23	1.297095082	0.252	0.046	5.29289E-19	KO	Aspm	0.206
Creld2	1.74269E-23	0.979288913	0.265	0.05	5.41158E-19	KO	Creld2	0.215
Pkmyt1	1.78454E-23	0.811861955	0.265	0.05	5.54154E-19	KO	Pkmyt1	0.215
Zfp367	1.99273E-23	0.777071598	0.218	0.033	6.18802E-19	KO	Zfp367	0.185
Tnfsf9	2.04048E-23	2.076771541	0.172	0.018	6.33631E-19	KO	Tnfsf9	0.154

Kptn	2.24845E-23	1.014349131	0.185	0.022	6.98211E-19	KO	Kptn	0.163
Junb	2.29504E-23	0.866076681	0.945	0.539	7.1268E-19	KO	Junb	0.406
Napsa	2.37938E-23	0.790458856	0.303	0.064	7.38869E-19	KO	Napsa	0.239
Pwwp2a	2.53584E-23	0.766507212	0.265	0.05	7.87454E-19	KO	Pwwp2a	0.215
Myl12a	2.64355E-23	0.740673055	0.908	0.462	8.20903E-19	KO	Myl12a	0.446
Pex6	2.96623E-23	0.775222306	0.197	0.026	9.21103E-19	KO	Pex6	0.171
Ptgr2	3.06563E-23	1.117827853	0.193	0.025	9.51969E-19	KO	Ptgr2	0.168
Senp5	3.08479E-23	0.77994812	0.223	0.035	9.57918E-19	KO	Senp5	0.188
Evi2a	3.09166E-23	0.739112143	0.235	0.039	9.60053E-19	KO	Evi2a	0.196
Prkdc	3.18397E-23	0.979145771	0.214	0.032	9.88718E-19	KO	Prkdc	0.182
Pdcd2	3.298E-23	0.826889165	0.298	0.063	1.02413E-18	KO	Pdcd2	0.235
Strbp	3.33187E-23	0.799865727	0.227	0.037	1.03465E-18	KO	Strbp	0.19
Zufsp	3.37281E-23	0.766718513	0.324	0.075	1.04736E-18	KO	Zufsp	0.249
Egr1	3.49873E-23	0.786279707	0.303	0.065	1.08646E-18	KO	Egr1	0.238
Fancm	3.8191E-23	0.891138061	0.168	0.017	1.18595E-18	KO	Fancm	0.151
Npnt	4.38946E-23	1.65090475	0.176	0.02	1.36306E-18	KO	Npnt	0.156
Ctnnd2	4.81091E-23	3.018291003	0.092	0	1.49393E-18	KO	Ctnnd2	0.092
Hnrnpu	5.77537E-23	0.743813156	0.853	0.385	1.79343E-18	KO	Hnrnpu	0.468
Hspa4l	6.38397E-23	1.25817154	0.227	0.038	1.98242E-18	KO	Hspa4l	0.189
Adamts6	6.40859E-23	1.096232165	0.189	0.024	1.99006E-18	KO	Adamts6	0.165
Elp5	6.6604E-23	0.829712482	0.34	0.082	2.06825E-18	KO	Elp5	0.258
Diaph2	6.88072E-23	0.803124244	0.214	0.033	2.13667E-18	KO	Diaph2	0.181
Slc14a1	7.05606E-23	2.29270203	0.126	0.007	2.19112E-18	KO	Slc14a1	0.119
Sgk1	7.12096E-23	0.875923967	0.235	0.04	2.21127E-18	KO	Sgk1	0.195
Ncapg2	7.26542E-23	0.747361186	0.332	0.081	2.25613E-18	KO	Ncapg2	0.251
Fkrp	7.4762E-23	1.822817447	0.13	0.008	2.32158E-18	KO	Fkrp	0.122
Nup35	8.05184E-23	1.30251942	0.16	0.015	2.50034E-18	KO	Nup35	0.145
Spc25	8.19274E-23	1.195587762	0.29	0.062	2.54409E-18	KO	Spc25	0.228
Chmp7	8.40749E-23	0.695531752	0.239	0.041	2.61078E-18	KO	Chmp7	0.198
Itpripl1	8.53067E-23	1.546283724	0.193	0.026	2.64903E-18	KO	Itpripl1	0.167
Ppif	8.96755E-23	0.956859446	0.235	0.04	2.78469E-18	KO	Ppif	0.195
Shkbp1	9.05435E-23	0.927388833	0.282	0.058	2.81165E-18	KO	Shkbp1	0.224
Memo1	9.14392E-23	0.808122103	0.303	0.066	2.83946E-18	KO	Memo1	0.237
Irf4	1.04094E-22	1.654935766	0.189	0.025	3.23243E-18	KO	Irf4	0.164
Uck2	1.08276E-22	0.923553802	0.282	0.059	3.3623E-18	KO	Uck2	0.223
Zfp646	1.23473E-22	0.786243468	0.248	0.045	3.8342E-18	KO	Zfp646	0.203
Notch2	1.29459E-22	1.611089285	0.168	0.018	4.02008E-18	KO	Notch2	0.15
Rnf19b	1.31956E-22	0.776925826	0.273	0.056	4.09764E-18	KO	Rnf19b	0.217
Mrpl10	1.41884E-22	0.850770564	0.21	0.032	4.40593E-18	KO	Mrpl10	0.178
Ccl5	1.55437E-22	2.024283041	0.815	0.544	4.82679E-18	KO	Ccl5	0.271
Fem1c	1.57011E-22	0.718551076	0.273	0.055	4.87566E-18	KO	Fem1c	0.218
Tmem164	1.57106E-22	0.881135766	0.239	0.042	4.87862E-18	KO	Tmem164	0.197
Ncapd2	1.6835E-22	0.922989503	0.412	0.12	5.22778E-18	KO	Ncapd2	0.292
4930579G24R	1.87373E-22	1.190329284	0.151	0.013	5.81848E-18	KO	4930579G24R	0.138
H2afv	1.98979E-22	0.778896357	0.752	0.324	6.1789E-18	KO	H2afv	0.428
Sgms1	2.00696E-22	1.197228875	0.248	0.046	6.23222E-18	KO	Sgms1	0.202
Foxp4	2.06599E-22	1.245253081	0.214	0.034	6.41553E-18	KO	Foxp4	0.18
Tjp2	2.07043E-22	0.959372449	0.189	0.025	6.4293E-18	KO	Tjp2	0.164
Traf5	2.14979E-22	1.117891044	0.176	0.021	6.67575E-18	KO	Traf5	0.155
Ing3	2.15634E-22	0.837015045	0.244	0.044	6.6961E-18	KO	Ing3	0.2
Slc39a1	2.24421E-22	0.791324278	0.239	0.042	6.96893E-18	KO	Slc39a1	0.197

Neil1	2.48747E-22	1.244502865	0.147	0.013	7.72434E-18	KO	Neil1	0.134
Jade1	2.58469E-22	0.821219157	0.248	0.046	8.02624E-18	KO	Jade1	0.202
Gan	2.83308E-22	1.572138757	0.181	0.023	8.79757E-18	KO	Gan	0.158
Cryzl1	2.9354E-22	1.07801987	0.197	0.028	9.11529E-18	KO	Cryzl1	0.169
Agtppb1	3.0502E-22	0.828328569	0.214	0.034	9.47179E-18	KO	Agtppb1	0.18
Ly6c2	3.33269E-22	1.609382282	0.349	0.095	1.0349E-17	KO	Ly6c2	0.254
Ostf1	3.47248E-22	0.731791717	0.937	0.539	1.07831E-17	KO	Ostf1	0.398
Scly	3.49491E-22	0.752587256	0.214	0.034	1.08527E-17	KO	Scly	0.18
Tpra1	3.55836E-22	1.148886675	0.16	0.016	1.10498E-17	KO	Tpra1	0.144
Ptprj	3.62557E-22	0.771200648	0.227	0.038	1.12585E-17	KO	Ptprj	0.189
Psme2b	3.65606E-22	1.038756595	0.16	0.016	1.13532E-17	KO	Psme2b	0.144
Wdr83	3.7395E-22	0.814811937	0.265	0.053	1.16123E-17	KO	Wdr83	0.212
Ltv1	3.97474E-22	1.326908438	0.239	0.044	1.23428E-17	KO	Ltv1	0.195
Tiam1	4.03744E-22	1.100299147	0.235	0.042	1.25375E-17	KO	Tiam1	0.193
Pdzd11	4.05905E-22	0.989366928	0.235	0.041	1.26046E-17	KO	Pdzd11	0.194
Btbd10	4.22601E-22	1.01415362	0.202	0.03	1.3123E-17	KO	Btbd10	0.172
Nfyc	4.50799E-22	0.985182775	0.235	0.042	1.39987E-17	KO	Nfyc	0.193
Nudt18	4.90156E-22	0.818757662	0.193	0.027	1.52208E-17	KO	Nudt18	0.166
Hace1	5.04543E-22	1.089090243	0.185	0.024	1.56676E-17	KO	Hace1	0.161
Dip2a	5.12161E-22	1.769172013	0.109	0.004	1.59041E-17	KO	Dip2a	0.105
Nek8	5.40866E-22	0.714069791	0.193	0.027	1.67955E-17	KO	Nek8	0.166
Mcee	5.60884E-22	0.712427245	0.21	0.033	1.74171E-17	KO	Mcee	0.177
Nipsnap2	5.93038E-22	0.980488289	0.181	0.023	1.84156E-17	KO	Nipsnap2	0.158
Gpn2	6.04894E-22	1.125099763	0.168	0.019	1.87838E-17	KO	Gpn2	0.149
Hist1h2ab	6.25204E-22	1.862102984	0.118	0.006	1.94145E-17	KO	Hist1h2ab	0.112
Camk2n1	6.31754E-22	1.036520945	0.206	0.032	1.96179E-17	KO	Camk2n1	0.174
9030025P20R	6.9695E-22	2.004556991	0.118	0.006	2.16424E-17	KO	9030025P20R	0.112
Lmnb2	8.22557E-22	1.191706268	0.151	0.014	2.55429E-17	KO	Lmnb2	0.137
Mcu	8.56388E-22	1.189405684	0.21	0.034	2.65934E-17	KO	Mcu	0.176
Tbc1d7	8.74862E-22	1.037492312	0.189	0.026	2.71671E-17	KO	Tbc1d7	0.163
Ccp110	8.99001E-22	0.903772008	0.197	0.029	2.79167E-17	KO	Ccp110	0.168
Atpaf2	9.39491E-22	1.603369764	0.176	0.022	2.9174E-17	KO	Atpaf2	0.154
Ermp1	1.03343E-21	0.747207826	0.244	0.046	3.2091E-17	KO	Ermp1	0.198
Slc10a7	1.08741E-21	1.541608171	0.164	0.018	3.37674E-17	KO	Slc10a7	0.146
Fam120b	1.23047E-21	0.719498377	0.239	0.044	3.82097E-17	KO	Fam120b	0.195
Arhgap4	1.45756E-21	0.83481395	0.231	0.041	4.52616E-17	KO	Arhgap4	0.19
Hsp90aa1	1.53898E-21	0.894462394	0.912	0.488	4.77898E-17	KO	Hsp90aa1	0.424
Rgs14	1.5468E-21	0.934442479	0.193	0.028	4.80329E-17	KO	Rgs14	0.165
Nemp2	1.54845E-21	1.026321767	0.185	0.025	4.8084E-17	KO	Nemp2	0.16
Hmgb1	1.72245E-21	0.901975356	0.866	0.49	5.34872E-17	KO	Hmgb1	0.376
Rabgef1	1.80002E-21	0.701557088	0.202	0.031	5.5896E-17	KO	Rabgef1	0.171
Slc16a1	1.82396E-21	0.958217411	0.265	0.056	5.66395E-17	KO	Slc16a1	0.209
Arhgef3	1.96057E-21	0.748208924	0.218	0.038	6.08817E-17	KO	Arhgef3	0.18
Actn1	2.02166E-21	0.712545199	0.366	0.1	6.27787E-17	KO	Actn1	0.266
Umad1	2.05146E-21	1.469888325	0.139	0.012	6.37038E-17	KO	Umad1	0.127
Pprc1	2.05261E-21	0.881687821	0.172	0.021	6.37396E-17	KO	Pprc1	0.151
Tacc2	2.11241E-21	1.370100571	0.139	0.012	6.55967E-17	KO	Tacc2	0.127
Ap1s2	2.17783E-21	0.873632934	0.223	0.038	6.76282E-17	KO	Ap1s2	0.185
Rab11fip1	2.36404E-21	0.79291953	0.248	0.048	7.34106E-17	KO	Rab11fip1	0.2
Ap1ar	2.37751E-21	1.033235795	0.256	0.052	7.38289E-17	KO	Ap1ar	0.204
BC037034	2.40506E-21	0.852175119	0.206	0.033	7.46842E-17	KO	BC037034	0.173

Hmgb2	2.4387E-21	1.057464769	0.92	0.566	7.5729E-17	KO	Hmgb2	0.354
Snip1	2.48965E-21	1.112729048	0.218	0.038	7.7311E-17	KO	Snip1	0.18
Mmadhc	2.97813E-21	0.792669635	0.319	0.079	9.24797E-17	KO	Mmadhc	0.24
Slc37a3	3.15268E-21	0.967312036	0.197	0.03	9.79002E-17	KO	Slc37a3	0.167
Rnf34	3.16349E-21	0.825066061	0.189	0.027	9.82358E-17	KO	Rnf34	0.162
Dynlt1a	3.20688E-21	1.079189724	0.134	0.011	9.95832E-17	KO	Dynlt1a	0.123
Cops7a	3.21394E-21	0.803071339	0.239	0.045	9.98024E-17	KO	Cops7a	0.194
Zbtb2	3.30003E-21	1.54744344	0.13	0.01	1.02476E-16	KO	Zbtb2	0.12
Wdr20	3.38102E-21	0.970965732	0.21	0.035	1.04991E-16	KO	Wdr20	0.175
Ofd1	3.51271E-21	0.807445038	0.176	0.023	1.0908E-16	KO	Ofd1	0.153
Lmtk3	3.525E-21	0.775341332	0.155	0.016	1.09462E-16	KO	Lmtk3	0.139
Eif2ak2	3.57986E-21	1.106300673	0.202	0.032	1.11165E-16	KO	Eif2ak2	0.17
Prdm4	3.67174E-21	1.18701156	0.197	0.03	1.14018E-16	KO	Prdm4	0.167
Supt3	3.87211E-21	1.03771308	0.193	0.029	1.20241E-16	KO	Supt3	0.164
Gnl3l	4.31418E-21	0.759128289	0.244	0.047	1.33968E-16	KO	Gnl3l	0.197
Itln1	4.59687E-21	3.320776696	0.084	0	1.42747E-16	KO	Itln1	0.084
Mcph1	4.89525E-21	1.066302187	0.151	0.015	1.52012E-16	KO	Mcph1	0.136
Tmem39a	4.93089E-21	0.99506731	0.185	0.026	1.53119E-16	KO	Tmem39a	0.159
1600014C10R	5.07931E-21	0.698799554	0.218	0.038	1.57728E-16	KO	1600014C10R	0.18
Focad	5.20253E-21	1.652510165	0.109	0.005	1.61554E-16	KO	Focad	0.104
Lpcat3	5.31671E-21	0.762581063	0.218	0.038	1.651E-16	KO	Lpcat3	0.18
Fgd3	5.40727E-21	1.631752079	0.147	0.014	1.67912E-16	KO	Fgd3	0.133
Tlnrd1	6.51226E-21	1.177773214	0.181	0.025	2.02225E-16	KO	Tlnrd1	0.156
Hectd3	6.6116E-21	0.949003257	0.172	0.022	2.0531E-16	KO	Hectd3	0.15
Pank3	6.78274E-21	0.725092324	0.214	0.037	2.10624E-16	KO	Pank3	0.177
Eif2d	6.82895E-21	0.844083689	0.239	0.046	2.12059E-16	KO	Eif2d	0.193
Slnf9	7.97849E-21	1.355474492	0.143	0.013	2.47756E-16	KO	Slnf9	0.13
Cenpe	9.11099E-21	1.151106657	0.294	0.071	2.82924E-16	KO	Cenpe	0.223
Cd83	9.46553E-21	1.808933296	0.197	0.032	2.93933E-16	KO	Cd83	0.165
Aldh3a2	1.09499E-20	0.868134409	0.168	0.021	3.40028E-16	KO	Aldh3a2	0.147
Txn1	1.11669E-20	0.704846859	0.908	0.546	3.46767E-16	KO	Txn1	0.362
Eps8l1	1.11774E-20	2.731712867	0.088	0.001	3.47091E-16	KO	Eps8l1	0.087
Fiz1	1.22326E-20	1.061268735	0.176	0.024	3.79858E-16	KO	Fiz1	0.152
Nup133	1.24521E-20	1.197526614	0.21	0.036	3.86675E-16	KO	Nup133	0.174
Cdc45	1.26211E-20	1.278160283	0.239	0.047	3.91923E-16	KO	Cdc45	0.192
Dhrs7b	1.29045E-20	0.815030888	0.21	0.036	4.00724E-16	KO	Dhrs7b	0.174
Pacs2	1.36433E-20	0.754726348	0.176	0.024	4.23664E-16	KO	Pacs2	0.152
Polr3b	1.37535E-20	1.56256308	0.151	0.016	4.27088E-16	KO	Polr3b	0.135
Gbp3	1.40804E-20	0.902891197	0.248	0.051	4.3724E-16	KO	Gbp3	0.197
Ppil3	1.50173E-20	0.788148	0.319	0.08	4.66334E-16	KO	Ppil3	0.239
Rfx1	1.56525E-20	0.697638022	0.202	0.033	4.86056E-16	KO	Rfx1	0.169
Gcnt1	1.60287E-20	0.93971766	0.185	0.027	4.9774E-16	KO	Gcnt1	0.158
Slc4a1ap	2.14429E-20	0.891488965	0.244	0.049	6.65867E-16	KO	Slc4a1ap	0.195
Fzd5	2.39582E-20	2.214865934	0.126	0.01	7.43975E-16	KO	Fzd5	0.116
Utp20	2.42152E-20	1.358585281	0.16	0.019	7.51955E-16	KO	Utp20	0.141
Tpmt	2.46086E-20	1.230055012	0.13	0.011	7.64172E-16	KO	Tpmt	0.119
Poc1b	2.57264E-20	0.833067272	0.16	0.019	7.98881E-16	KO	Poc1b	0.141
Nqo2	2.61015E-20	1.407393051	0.13	0.011	8.1053E-16	KO	Nqo2	0.119
Crmp1	2.70656E-20	1.282068627	0.172	0.023	8.40467E-16	KO	Crmp1	0.149
Pmepa1	2.96238E-20	1.304994381	0.181	0.026	9.19909E-16	KO	Pmepa1	0.155
Nxn	3.03507E-20	0.788051266	0.189	0.029	9.4248E-16	KO	Nxn	0.16

Gdf11	3.16616E-20	2.783844358	0.097	0.003	9.83189E-16	KO	Gdf11	0.094
Ift140	3.21847E-20	1.204809381	0.126	0.01	9.99431E-16	KO	Ift140	0.116
Sertad1	3.22484E-20	0.857945214	0.248	0.051	1.00141E-15	KO	Sertad1	0.197
Usb1	3.25741E-20	1.131697496	0.126	0.01	1.01152E-15	KO	Usb1	0.116
Eil	3.36727E-20	0.894102518	0.176	0.025	1.04564E-15	KO	Eil	0.151
Sptlc1	3.55813E-20	0.810950561	0.244	0.049	1.10491E-15	KO	Sptlc1	0.195
Rfc3	3.65316E-20	0.75977495	0.298	0.074	1.13441E-15	KO	Rfc3	0.224
Ckap2l	3.9584E-20	1.006151254	0.214	0.038	1.2292E-15	KO	Ckap2l	0.176
Mtf1	4.08689E-20	0.883059539	0.227	0.043	1.2691E-15	KO	Mtf1	0.184
Muc1	4.12046E-20	2.030030322	0.101	0.004	1.27953E-15	KO	Muc1	0.097
Pitrm1	4.15084E-20	0.863558268	0.202	0.034	1.28896E-15	KO	Pitrm1	0.168
Espl1	4.29927E-20	1.174246979	0.185	0.028	1.33505E-15	KO	Espl1	0.157
Il13	4.47754E-20	5.870952057	0.08	0	1.39041E-15	KO	Il13	0.08
Abcd1	4.56683E-20	0.824986712	0.168	0.022	1.41814E-15	KO	Abcd1	0.146
Sufu	4.6854E-20	0.956586251	0.155	0.018	1.45496E-15	KO	Sufu	0.137
Snx27	5.25762E-20	0.754945795	0.206	0.036	1.63265E-15	KO	Snx27	0.17
S100a6	5.37926E-20	0.951764292	0.882	0.693	1.67042E-15	KO	S100a6	0.189
Ankrd27	5.38131E-20	1.00000023	0.185	0.028	1.67106E-15	KO	Ankrd27	0.157
Casp7	5.74545E-20	0.83436115	0.193	0.031	1.78413E-15	KO	Casp7	0.162
Figl1	5.91486E-20	1.006661875	0.21	0.038	1.83674E-15	KO	Figl1	0.172
1110004E09Ri	6.0651E-20	1.107801608	0.239	0.049	1.8834E-15	KO	1110004E09Ri	0.19
E2f6	6.07652E-20	1.347983664	0.139	0.013	1.88694E-15	KO	E2f6	0.126
Rab6b	6.31599E-20	1.532715323	0.139	0.013	1.9613E-15	KO	Rab6b	0.126
Myb	6.61124E-20	0.744766776	0.269	0.062	2.05299E-15	KO	Myb	0.207
Cep162	6.70174E-20	0.725978717	0.185	0.028	2.08109E-15	KO	Cep162	0.157
Cobll1	6.88707E-20	1.204441158	0.151	0.017	2.13864E-15	KO	Cobll1	0.134
Zfp703	7.11928E-20	1.259428088	0.164	0.021	2.21075E-15	KO	Zfp703	0.143
Mir155hg	8.35762E-20	1.002002333	0.256	0.057	2.59529E-15	KO	Mir155hg	0.199
Pepd	8.51769E-20	1.545540451	0.16	0.02	2.645E-15	KO	Pepd	0.14
Kctd5	8.99705E-20	0.856414336	0.189	0.03	2.79385E-15	KO	Kctd5	0.159
Ctla2b	9.08762E-20	1.142228868	0.134	0.013	2.82198E-15	KO	Ctla2b	0.121
Ero1lb	9.14263E-20	0.954244217	0.151	0.017	2.83906E-15	KO	Ero1lb	0.134
Ammecr1l	9.21533E-20	0.841964867	0.223	0.042	2.86164E-15	KO	Ammecr1l	0.181
Ncoa1	9.21536E-20	0.736485958	0.218	0.04	2.86165E-15	KO	Ncoa1	0.178
Pgghg	9.42907E-20	1.122975195	0.151	0.017	2.92801E-15	KO	Pgghg	0.134
Fam26f	9.8713E-20	1.164238819	0.193	0.032	3.06533E-15	KO	Fam26f	0.161
Rfc5	1.05433E-19	0.889242391	0.282	0.067	3.27402E-15	KO	Rfc5	0.215
Slfn8	1.07039E-19	0.828761867	0.181	0.027	3.32387E-15	KO	Slfn8	0.154
Cog6	1.16365E-19	1.218927585	0.13	0.012	3.61348E-15	KO	Cog6	0.118
Crls1	1.2164E-19	0.719552779	0.202	0.035	3.7773E-15	KO	Crls1	0.167
B3glct	1.34368E-19	1.153927005	0.147	0.016	4.17252E-15	KO	B3glct	0.131
Snx16	1.35012E-19	1.135256943	0.13	0.012	4.19253E-15	KO	Snx16	0.118
Lmtk2	1.38436E-19	2.434478037	0.126	0.011	4.29887E-15	KO	Lmtk2	0.115
Ikzf4	1.39206E-19	1.233196284	0.168	0.023	4.32277E-15	KO	Ikzf4	0.145
Ece1	1.40515E-19	0.944963327	0.273	0.064	4.3634E-15	KO	Ece1	0.209
Kif11	1.46532E-19	1.090815245	0.303	0.079	4.55025E-15	KO	Kif11	0.224
Yeats2	1.47817E-19	0.806176019	0.206	0.037	4.59017E-15	KO	Yeats2	0.169
Wdr36	1.58953E-19	0.723596184	0.197	0.034	4.93597E-15	KO	Wdr36	0.163
Car5b	1.71874E-19	1.445866865	0.155	0.019	5.33721E-15	KO	Car5b	0.136
Ank	1.82429E-19	0.96180105	0.143	0.015	5.66496E-15	KO	Ank	0.128
Izumo1r	1.88097E-19	0.965863462	0.21	0.038	5.84099E-15	KO	Izumo1r	0.172

Phtf2	2.00066E-19	0.913314903	0.172	0.025	6.21266E-15	KO	Phtf2	0.147
Top2a	2.11911E-19	1.420614697	0.504	0.22	6.58048E-15	KO	Top2a	0.284
Rad52	2.26575E-19	0.753855403	0.143	0.015	7.03584E-15	KO	Rad52	0.128
Zfp865	2.45655E-19	0.742464163	0.189	0.031	7.62833E-15	KO	Zfp865	0.158
Taf8	2.70345E-19	1.464088634	0.139	0.014	8.39501E-15	KO	Taf8	0.125
Mettl7a1	2.93E-19	2.215478755	0.113	0.008	9.09852E-15	KO	Mettl7a1	0.105
Hist1h2ai	2.95702E-19	1.898752934	0.092	0.003	9.18243E-15	KO	Hist1h2ai	0.089
Spdl1	3.31215E-19	1.666877156	0.16	0.021	1.02852E-14	KO	Spdl1	0.139
Arfp1	3.31258E-19	0.919931953	0.181	0.028	1.02866E-14	KO	Arfp1	0.153
Hist1h2ae	3.43916E-19	1.003501207	0.395	0.128	1.06796E-14	KO	Hist1h2ae	0.267
Ube2w	3.60659E-19	0.913447533	0.214	0.04	1.11995E-14	KO	Ube2w	0.174
Syap1	3.98881E-19	0.704139288	0.193	0.033	1.23865E-14	KO	Syap1	0.16
Phlda1	4.31273E-19	1.250139048	0.336	0.096	1.33923E-14	KO	Phlda1	0.24
Sik2	4.42534E-19	0.754004073	0.176	0.027	1.3742E-14	KO	Sik2	0.149
Cep128	4.61586E-19	1.110248893	0.168	0.024	1.43336E-14	KO	Cep128	0.144
Tmem175	4.62897E-19	1.310994555	0.134	0.013	1.43744E-14	KO	Tmem175	0.121
Tmem86b	4.63596E-19	0.805674712	0.105	0.006	1.43961E-14	KO	Tmem86b	0.099
Sdr39u1	4.93443E-19	0.8810428	0.185	0.03	1.53229E-14	KO	Sdr39u1	0.155
Ccne2	6.82103E-19	1.531486596	0.155	0.02	2.11813E-14	KO	Ccne2	0.135
Slc25a16	6.90626E-19	1.328933403	0.164	0.023	2.1446E-14	KO	Slc25a16	0.141
Irgm1	7.23591E-19	0.850899493	0.164	0.023	2.24697E-14	KO	Irgm1	0.141
Thoc6	7.28334E-19	1.083323321	0.214	0.041	2.2617E-14	KO	Thoc6	0.173
Alg1	7.51076E-19	0.96542645	0.164	0.023	2.33232E-14	KO	Alg1	0.141
Lrrc42	8.16748E-19	0.977989955	0.164	0.023	2.53625E-14	KO	Lrrc42	0.141
Gstcd	8.68033E-19	0.958788073	0.172	0.026	2.6955E-14	KO	Gstcd	0.146
Trim5	8.93175E-19	0.804595982	0.181	0.029	2.77358E-14	KO	Trim5	0.152
AU040320	8.98994E-19	0.767866467	0.155	0.02	2.79165E-14	KO	AU040320	0.135
9330175E14Ri	9.10739E-19	1.296141057	0.143	0.016	2.82812E-14	KO	9330175E14Ri	0.127
Usp42	9.88254E-19	0.694228819	0.164	0.023	3.06882E-14	KO	Usp42	0.141
Exph5	9.98206E-19	1.089243717	0.235	0.051	3.09973E-14	KO	Exph5	0.184
Dffa	1.16987E-18	1.325807677	0.139	0.015	3.63281E-14	KO	Dffa	0.124
Spp1	1.18575E-18	1.610276837	0.303	0.088	3.68212E-14	KO	Spp1	0.215
Srxn1	1.25207E-18	1.102459192	0.139	0.015	3.88804E-14	KO	Srxn1	0.124
Csgalnact2	1.26907E-18	1.291354038	0.151	0.019	3.94084E-14	KO	Csgalnact2	0.132
Ppa2	1.34216E-18	0.926037849	0.218	0.044	4.16782E-14	KO	Ppa2	0.174
Rabif	1.39718E-18	0.75750099	0.218	0.043	4.33866E-14	KO	Rabif	0.175
Fanci	1.43322E-18	1.143526588	0.122	0.011	4.45059E-14	KO	Fanci	0.111
Zscan29	1.46414E-18	0.997063403	0.139	0.015	4.54658E-14	KO	Zscan29	0.124
Myc	1.46914E-18	0.764566052	0.227	0.047	4.56213E-14	KO	Myc	0.18
Tor4a	1.52644E-18	0.884693084	0.139	0.015	4.74006E-14	KO	Tor4a	0.124
Tmco6	1.7403E-18	1.588834891	0.118	0.01	5.40415E-14	KO	Tmco6	0.108
E130308A19R	1.79544E-18	1.016929717	0.202	0.038	5.57537E-14	KO	E130308A19R	0.164
Izumo4	1.91369E-18	0.694134677	0.176	0.028	5.94257E-14	KO	Izumo4	0.148
Hmmr	2.0027E-18	0.756310124	0.239	0.054	6.21899E-14	KO	Hmmr	0.185
Cant1	2.0475E-18	0.795716418	0.214	0.042	6.35811E-14	KO	Cant1	0.172
Dcaf17	2.0682E-18	1.456339438	0.155	0.021	6.42239E-14	KO	Dcaf17	0.134
Wdr55	2.30097E-18	0.763732041	0.147	0.018	7.14521E-14	KO	Wdr55	0.129
Rad51d	2.38443E-18	0.952516188	0.155	0.021	7.40436E-14	KO	Rad51d	0.134
Ino80c	2.44864E-18	0.907651976	0.248	0.056	7.60375E-14	KO	Ino80c	0.192
Mycbp	2.87533E-18	0.938528405	0.164	0.024	8.92876E-14	KO	Mycbp	0.14
Dnajc10	2.95554E-18	0.792220671	0.244	0.055	9.17785E-14	KO	Dnajc10	0.189

Arl13b	3.08218E-18	2.046383066	0.143	0.017	9.5711E-14	KO	Arl13b	0.126
Leo1	3.11732E-18	1.013632681	0.176	0.029	9.68021E-14	KO	Leo1	0.147
Gphn	3.20032E-18	2.445681533	0.105	0.007	9.93795E-14	KO	Gphn	0.098
Tacc3	3.2757E-18	0.813497119	0.34	0.102	1.0172E-13	KO	Tacc3	0.238
Entpd6	3.31074E-18	1.25081947	0.13	0.013	1.02808E-13	KO	Entpd6	0.117
Bub1b	3.35012E-18	0.712101991	0.265	0.064	1.04031E-13	KO	Bub1b	0.201
Mafk	3.35643E-18	1.005537127	0.143	0.017	1.04227E-13	KO	Mafk	0.126
Tnfsf13b	3.39176E-18	0.796353886	0.13	0.013	1.05324E-13	KO	Tnfsf13b	0.117
Slc10a3	3.4358E-18	1.893913783	0.092	0.004	1.06692E-13	KO	Slc10a3	0.088
Slx4ip	3.55971E-18	0.913718672	0.13	0.013	1.1054E-13	KO	Slx4ip	0.117
Gypc	3.61834E-18	0.846238907	0.143	0.017	1.1236E-13	KO	Gypc	0.126
Zfp831	3.69816E-18	2.513429408	0.097	0.005	1.14839E-13	KO	Zfp831	0.092
Pigh	3.78139E-18	1.237984899	0.101	0.006	1.17424E-13	KO	Pigh	0.095
Igsf5	4.22086E-18	2.675605262	0.071	0	1.31071E-13	KO	Igsf5	0.071
Eml3	4.98157E-18	0.732527444	0.206	0.04	1.54693E-13	KO	Eml3	0.166
Dhrs1	5.05844E-18	0.890839188	0.206	0.04	1.5708E-13	KO	Dhrs1	0.166
Ncald	5.13315E-18	0.989971818	0.181	0.031	1.594E-13	KO	Ncald	0.15
Fam20a	5.45522E-18	0.95389741	0.139	0.016	1.69401E-13	KO	Fam20a	0.123
Suv39h2	5.48298E-18	1.098271337	0.139	0.016	1.70263E-13	KO	Suv39h2	0.123
Vps18	6.09911E-18	1.207674696	0.139	0.016	1.89396E-13	KO	Vps18	0.123
Rrp36	6.56954E-18	0.810334349	0.181	0.031	2.04004E-13	KO	Rrp36	0.15
Slc39a9	7.06433E-18	1.07779845	0.147	0.019	2.19369E-13	KO	Slc39a9	0.128
Ubxn8	7.14813E-18	0.876846365	0.193	0.036	2.21971E-13	KO	Ubxn8	0.157
Ccr7	7.80204E-18	1.46455442	0.416	0.159	2.42277E-13	KO	Ccr7	0.257
Txlng	8.57976E-18	0.773504518	0.185	0.033	2.66427E-13	KO	Txlng	0.152
Trmt13	8.75471E-18	0.852544728	0.197	0.038	2.7186E-13	KO	Trmt13	0.159
Nol6	8.97877E-18	0.944542238	0.172	0.028	2.78818E-13	KO	Nol6	0.144
Melk	9.01065E-18	1.218838929	0.185	0.033	2.79808E-13	KO	Melk	0.152
Net1	9.08452E-18	0.846005302	0.185	0.033	2.82101E-13	KO	Net1	0.152
Crtam	9.13453E-18	2.416658898	0.202	0.041	2.83655E-13	KO	Crtam	0.161
Gcc1	9.75792E-18	1.032841647	0.134	0.015	3.03013E-13	KO	Gcc1	0.119
Gemin5	1.0093E-17	1.162440524	0.164	0.025	3.13417E-13	KO	Gemin5	0.139
Adgrl1	1.06454E-17	0.727050647	0.164	0.025	3.30571E-13	KO	Adgrl1	0.139
Tnfsf4	1.08161E-17	1.66739767	0.189	0.036	3.35874E-13	KO	Tnfsf4	0.153
Mrc2	1.0915E-17	1.019835324	0.118	0.011	3.38942E-13	KO	Mrc2	0.107
Exd2	1.14324E-17	1.488676514	0.13	0.014	3.55009E-13	KO	Exd2	0.116
Dph6	1.19161E-17	1.292745123	0.143	0.018	3.7003E-13	KO	Dph6	0.125
Gbp5	1.20006E-17	0.730838483	0.176	0.03	3.72656E-13	KO	Gbp5	0.146
Zbtb21	1.243E-17	0.914650526	0.13	0.014	3.8599E-13	KO	Zbtb21	0.116
Heg1	1.29399E-17	0.859161074	0.16	0.024	4.01824E-13	KO	Heg1	0.136
Tec	1.33732E-17	1.052724906	0.13	0.014	4.15277E-13	KO	Tec	0.116
Ryk	1.40295E-17	1.077216064	0.16	0.024	4.35658E-13	KO	Ryk	0.136
Kntc1	1.41833E-17	1.242307132	0.151	0.021	4.40435E-13	KO	Kntc1	0.13
Zc3h12d	1.57468E-17	0.927198529	0.197	0.038	4.88986E-13	KO	Zc3h12d	0.159
Ccr2	1.71536E-17	1.189231709	0.269	0.07	5.3267E-13	KO	Ccr2	0.199
0610009O20R	1.80734E-17	0.699269856	0.151	0.021	5.61232E-13	KO	0610009O20R	0.13
Epas1	1.83145E-17	0.780603296	0.214	0.045	5.6872E-13	KO	Epas1	0.169
Tmem107	1.85796E-17	1.912747743	0.109	0.009	5.76953E-13	KO	Tmem107	0.1
Rbm45	2.06091E-17	1.138862992	0.126	0.013	6.39974E-13	KO	Rbm45	0.113
Micu1	2.08214E-17	1.0471919	0.181	0.032	6.46568E-13	KO	Micu1	0.149
Myo1e	2.18906E-17	1.045574043	0.139	0.017	6.79769E-13	KO	Myo1e	0.122

Csf2	2.21901E-17	4.446188801	0.088	0.004	6.89068E-13	KO	Csf2	0.084
Rrm2	2.25826E-17	1.161914485	0.315	0.096	7.01258E-13	KO	Rrm2	0.219
Galnt18	2.51356E-17	2.048130325	0.084	0.003	7.80537E-13	KO	Galnt18	0.081
Ccdc80	2.58673E-17	2.688759863	0.088	0.004	8.03259E-13	KO	Ccdc80	0.084
Mcub	2.71251E-17	0.875572729	0.185	0.034	8.42317E-13	KO	Mcub	0.151
Rab11fip2	2.75534E-17	0.916924428	0.164	0.026	8.55617E-13	KO	Rab11fip2	0.138
Ebag9	2.75565E-17	0.974273697	0.176	0.031	8.55712E-13	KO	Ebag9	0.145
Unc13b	2.79549E-17	2.917460524	0.092	0.005	8.68083E-13	KO	Unc13b	0.087
Pde4dip	2.95393E-17	1.033929432	0.164	0.026	9.17284E-13	KO	Pde4dip	0.138
Il1rap	3.11656E-17	0.809180574	0.122	0.013	9.67785E-13	KO	Il1rap	0.109
Usp22	3.26252E-17	0.973875655	0.176	0.031	1.01311E-12	KO	Usp22	0.145
Exoc3l	3.29955E-17	1.455320776	0.097	0.006	1.02461E-12	KO	Exoc3l	0.091
Aldoc	3.30099E-17	1.396388003	0.134	0.016	1.02506E-12	KO	Aldoc	0.118
Ccl27a	3.36092E-17	1.489758728	0.122	0.013	1.04367E-12	KO	Ccl27a	0.109
Tmem251	3.50692E-17	0.773521254	0.189	0.036	1.089E-12	KO	Tmem251	0.153
Nusap1	4.05863E-17	1.220599532	0.324	0.102	1.26033E-12	KO	Nusap1	0.222
Nudt2	4.10098E-17	0.886706588	0.189	0.036	1.27348E-12	KO	Nudt2	0.153
Kdm1b	4.13329E-17	0.702005961	0.134	0.016	1.28351E-12	KO	Kdm1b	0.118
N6amt1	4.38028E-17	0.947877389	0.151	0.022	1.36021E-12	KO	N6amt1	0.129
Tmem167b	4.8915E-17	0.952919542	0.143	0.019	1.51896E-12	KO	Tmem167b	0.124
Pde6d	4.89774E-17	1.041524368	0.118	0.012	1.52089E-12	KO	Pde6d	0.106
Fbxo4	4.98341E-17	0.749984257	0.16	0.025	1.5475E-12	KO	Fbxo4	0.135
Zfp513	5.00907E-17	0.845145488	0.143	0.019	1.55547E-12	KO	Zfp513	0.124
1110032F04Ri	5.20247E-17	1.272550566	0.118	0.012	1.61552E-12	KO	1110032F04Ri	0.106
Gmppb	6.24936E-17	0.905289434	0.185	0.035	1.94062E-12	KO	Gmppb	0.15
Chd1l	6.27438E-17	0.822712272	0.172	0.03	1.94838E-12	KO	Chd1l	0.142
Dsn1	6.96431E-17	0.943591929	0.13	0.015	2.16263E-12	KO	Dsn1	0.115
Fancl	7.10175E-17	1.044653219	0.164	0.027	2.20531E-12	KO	Fancl	0.137
Slc20a2	8.08687E-17	1.160173722	0.113	0.011	2.51122E-12	KO	Slc20a2	0.102
Homer1	8.87414E-17	0.991072216	0.147	0.021	2.75569E-12	KO	Homer1	0.126
Tmsb15b1	9.06369E-17	1.176158052	0.126	0.014	2.81455E-12	KO	Tmsb15b1	0.112
1500009L16Ri	9.22735E-17	1.262250218	0.21	0.046	2.86537E-12	KO	1500009L16Ri	0.164
Gm17173	9.46293E-17	1.402681195	0.109	0.01	2.93852E-12	KO	Gm17173	0.099
Zbtb32	1.10672E-16	0.869462658	0.227	0.053	3.4367E-12	KO	Zbtb32	0.174
Cep76	1.11699E-16	0.761106756	0.109	0.01	3.46859E-12	KO	Cep76	0.099
Dcun1d3	1.25878E-16	0.82462331	0.134	0.017	3.9089E-12	KO	Dcun1d3	0.117
Isoc1	1.26519E-16	0.817457662	0.151	0.023	3.92878E-12	KO	Isoc1	0.128
Trp53inp2	1.35517E-16	1.956055519	0.105	0.009	4.20822E-12	KO	Trp53inp2	0.096
Itm2a	1.3983E-16	0.783956449	0.193	0.038	4.34215E-12	KO	Itm2a	0.155
Tmem237	1.53627E-16	0.803405464	0.134	0.017	4.77058E-12	KO	Tmem237	0.117
Zfp180	1.55443E-16	1.117444108	0.122	0.013	4.82698E-12	KO	Zfp180	0.109
Nipsnap1	1.58803E-16	0.883159413	0.16	0.026	4.9313E-12	KO	Nipsnap1	0.134
Smcr8	1.66582E-16	1.029234503	0.143	0.02	5.17287E-12	KO	Smcr8	0.123
Utp15	1.73224E-16	0.907323064	0.189	0.038	5.37914E-12	KO	Utp15	0.151
Tmem260	1.79218E-16	1.222324991	0.164	0.028	5.56524E-12	KO	Tmem260	0.136
Ice1	1.84632E-16	0.863608387	0.197	0.04	5.73336E-12	KO	Ice1	0.157
Slc35g1	1.98951E-16	0.784313418	0.164	0.028	6.17802E-12	KO	Slc35g1	0.136
Wdr92	2.15803E-16	0.771761208	0.13	0.016	6.70134E-12	KO	Wdr92	0.114
Slco4a1	2.18212E-16	1.085436944	0.139	0.019	6.77615E-12	KO	Slco4a1	0.12
Alg8	2.2831E-16	0.730687177	0.164	0.028	7.0897E-12	KO	Alg8	0.136
Grb7	2.41487E-16	1.870333671	0.084	0.004	7.49889E-12	KO	Grb7	0.08

Zc3h10	2.58534E-16	1.178946536	0.118	0.013	8.02826E-12	KO	Zc3h10	0.105
Gale	2.6066E-16	0.725789486	0.155	0.025	8.09427E-12	KO	Gale	0.13
Haus8	2.80476E-16	0.931873836	0.155	0.025	8.70963E-12	KO	Haus8	0.13
Tmem131l	2.81587E-16	0.969019683	0.197	0.041	8.74413E-12	KO	Tmem131l	0.156
Hps5	2.89051E-16	0.745235616	0.139	0.019	8.9759E-12	KO	Hps5	0.12
Cdc6	3.08598E-16	0.927059658	0.139	0.019	9.58288E-12	KO	Cdc6	0.12
Tada3	3.16739E-16	0.694230487	0.189	0.038	9.83568E-12	KO	Tada3	0.151
Tbck	3.30112E-16	1.048552121	0.16	0.027	1.0251E-11	KO	Tbck	0.133
Hist3h2a	3.44048E-16	1.649190869	0.113	0.012	1.06837E-11	KO	Hist3h2a	0.101
Orc1	3.5157E-16	0.814458138	0.113	0.012	1.09173E-11	KO	Orc1	0.101
Cradd	3.71931E-16	1.14670732	0.126	0.015	1.15496E-11	KO	Cradd	0.111
Vps4a	3.78229E-16	0.983960317	0.181	0.035	1.17452E-11	KO	Vps4a	0.146
Tcf19	3.79424E-16	0.95049783	0.126	0.015	1.17823E-11	KO	Tcf19	0.111
Gm47415	3.94953E-16	3.106767257	0.063	0	1.22645E-11	KO	Gm47415	0.063
Cables2	4.10633E-16	0.720689073	0.16	0.027	1.27514E-11	KO	Cables2	0.133
Rmdn3	4.3944E-16	1.254178358	0.143	0.021	1.36459E-11	KO	Rmdn3	0.122
Chpf	4.4546E-16	0.824706206	0.151	0.024	1.38329E-11	KO	Chpf	0.127
Papolg	5.0103E-16	1.166520807	0.143	0.021	1.55585E-11	KO	Papolg	0.122
Hmgxb3	5.05679E-16	0.892610452	0.134	0.018	1.57029E-11	KO	Hmgxb3	0.116
Mrrf	5.20508E-16	1.448040369	0.122	0.014	1.61633E-11	KO	Mrrf	0.108
Abcg1	5.24694E-16	1.194987285	0.109	0.011	1.62933E-11	KO	Abcg1	0.098
Stn1	5.29021E-16	0.992780669	0.172	0.032	1.64277E-11	KO	Stn1	0.14
Tbrg4	5.42314E-16	0.868801719	0.218	0.051	1.68405E-11	KO	Tbrg4	0.167
Klf4	5.90785E-16	1.305902555	0.122	0.014	1.83457E-11	KO	Klf4	0.108
Exosc2	5.91867E-16	0.923537136	0.223	0.054	1.83793E-11	KO	Exosc2	0.169
Mki67	6.32252E-16	1.080459712	0.479	0.211	1.96333E-11	KO	Mki67	0.268
Tnip3	6.53948E-16	1.074212314	0.147	0.023	2.03071E-11	KO	Tnip3	0.124
Nup188	6.87418E-16	0.746426767	0.193	0.04	2.13464E-11	KO	Nup188	0.153
Zfp729b	7.44497E-16	1.260360297	0.105	0.01	2.31189E-11	KO	Zfp729b	0.095
Trim37	7.83569E-16	0.922907716	0.13	0.017	2.43322E-11	KO	Trim37	0.113
Fbxo25	7.84257E-16	1.675507334	0.118	0.013	2.43535E-11	KO	Fbxo25	0.105
E330009J07Ri	8.15681E-16	0.845095249	0.181	0.036	2.53293E-11	KO	E330009J07Ri	0.145
Ttc27	8.21966E-16	1.169722976	0.13	0.017	2.55245E-11	KO	Ttc27	0.113
Praf2	8.9551E-16	0.757955325	0.155	0.026	2.78083E-11	KO	Praf2	0.129
Abcd4	9.16209E-16	0.877838346	0.147	0.023	2.84511E-11	KO	Abcd4	0.124
Nrn1	9.24116E-16	1.081871719	0.433	0.178	2.86966E-11	KO	Nrn1	0.255
Tesk1	9.90198E-16	0.746574454	0.172	0.033	3.07486E-11	KO	Tesk1	0.139
Cyb561d1	9.97352E-16	1.537756416	0.101	0.009	3.09708E-11	KO	Cyb561d1	0.092
Tsen54	1.05949E-15	0.867726695	0.139	0.02	3.29003E-11	KO	Tsen54	0.119
Ddx19b	1.06621E-15	0.82896216	0.172	0.033	3.31091E-11	KO	Ddx19b	0.139
Naf1	1.26376E-15	0.765440781	0.151	0.025	3.92437E-11	KO	Naf1	0.126
Nek6	1.34311E-15	0.926949424	0.126	0.016	4.17076E-11	KO	Nek6	0.11
Ms4a4c	1.51704E-15	1.363812542	0.176	0.036	4.71088E-11	KO	Ms4a4c	0.14
Rad51ap1	1.56006E-15	0.823272701	0.202	0.045	4.84445E-11	KO	Rad51ap1	0.157
Senp7	1.59517E-15	0.779312362	0.176	0.035	4.95348E-11	KO	Senp7	0.141
Mier3	1.60002E-15	0.861009388	0.134	0.019	4.96855E-11	KO	Mier3	0.115
Hic2	1.74221E-15	2.198202172	0.092	0.007	5.41008E-11	KO	Hic2	0.085
Gtf2h4	1.77453E-15	1.057827417	0.155	0.027	5.51045E-11	KO	Gtf2h4	0.128
Adck1	2.10907E-15	1.86445669	0.122	0.015	6.54929E-11	KO	Adck1	0.107
Atrn	2.34305E-15	0.854462315	0.168	0.032	7.27588E-11	KO	Atrn	0.136
Plscr4	2.40438E-15	1.632320867	0.08	0.004	7.46631E-11	KO	Plscr4	0.076

Pcgf6	2.40604E-15	1.384584733	0.139	0.021	7.47146E-11	KO	Pcgf6	0.118
Mettl4	2.57137E-15	0.809200528	0.109	0.012	7.98488E-11	KO	Mettl4	0.097
Znfx1	2.59885E-15	1.017008361	0.109	0.012	8.07021E-11	KO	Znfx1	0.097
Rfc4	2.90941E-15	0.735365326	0.303	0.092	9.03458E-11	KO	Rfc4	0.211
Stmn1	2.92863E-15	1.217662523	0.584	0.32	9.09428E-11	KO	Stmn1	0.264
Slc16a11	3.00626E-15	0.724181255	0.244	0.064	9.33535E-11	KO	Slc16a11	0.18
1700048O20R	3.15734E-15	1.555952785	0.118	0.014	9.80448E-11	KO	1700048O20R	0.104
Sema6d	3.18683E-15	0.982054762	0.164	0.031	9.89605E-11	KO	Sema6d	0.133
Ccdc66	3.60485E-15	1.029823389	0.151	0.026	1.11941E-10	KO	Ccdc66	0.125
Pvrig	3.81202E-15	2.118704015	0.059	0	1.18375E-10	KO	Pvrig	0.059
Vps37c	3.99032E-15	0.735533094	0.118	0.014	1.23912E-10	KO	Vps37c	0.104
Zdhhc16	4.25838E-15	0.719617591	0.181	0.038	1.32236E-10	KO	Zdhhc16	0.143
Tspan5	4.43804E-15	0.814311092	0.134	0.02	1.37814E-10	KO	Tspan5	0.114
Dhfr	4.67217E-15	0.872008119	0.252	0.069	1.45085E-10	KO	Dhfr	0.183
Rrp12	4.918E-15	1.387748463	0.113	0.013	1.52719E-10	KO	Rrp12	0.1
Klf11	5.19989E-15	1.178514593	0.101	0.01	1.61472E-10	KO	Klf11	0.091
Elac2	5.22348E-15	0.80539212	0.16	0.03	1.62205E-10	KO	Elac2	0.13
Ccdc92	5.35262E-15	0.888908417	0.155	0.028	1.66215E-10	KO	Ccdc92	0.127
Slc25a10	5.46609E-15	1.364467554	0.101	0.01	1.69739E-10	KO	Slc25a10	0.091
Ociad2	5.53831E-15	1.037780395	0.147	0.025	1.71981E-10	KO	Ociad2	0.122
Pofut1	5.95891E-15	0.941219639	0.172	0.035	1.85042E-10	KO	Pofut1	0.137
Cdk5	6.13014E-15	0.920546223	0.181	0.038	1.90359E-10	KO	Cdk5	0.143
Gar1	6.39593E-15	0.907361278	0.319	0.103	1.98613E-10	KO	Gar1	0.216
Abcc1	6.43137E-15	0.799858583	0.227	0.058	1.99713E-10	KO	Abcc1	0.169
Zfp938	6.93708E-15	1.09062028	0.113	0.013	2.15417E-10	KO	Zfp938	0.1
Nbn	8.0485E-15	1.026627611	0.097	0.009	2.4993E-10	KO	Nbn	0.088
Tmem68	8.23322E-15	0.892535164	0.13	0.019	2.55666E-10	KO	Tmem68	0.111
Trim30d	8.53691E-15	1.517836918	0.13	0.019	2.65097E-10	KO	Trim30d	0.111
Mrps2	9.40832E-15	0.861451709	0.139	0.022	2.92156E-10	KO	Mrps2	0.117
Zbtb14	9.54739E-15	1.400718869	0.109	0.013	2.96475E-10	KO	Zbtb14	0.096
2410004B18R	9.6943E-15	0.837029842	0.168	0.034	3.01037E-10	KO	2410004B18R	0.134
Bcl6	1.0223E-14	1.518176627	0.092	0.008	3.17454E-10	KO	Bcl6	0.084
Gins1	1.03907E-14	0.772765632	0.139	0.022	3.22662E-10	KO	Gins1	0.117
2810006K23R	1.04644E-14	1.436472815	0.092	0.008	3.24951E-10	KO	2810006K23R	0.084
Pfkm	1.13688E-14	0.809346845	0.109	0.013	3.53034E-10	KO	Pfkm	0.096
Tuba1b	1.16938E-14	0.997356222	0.672	0.369	3.63127E-10	KO	Tuba1b	0.303
2700097O09R	1.40944E-14	0.937653516	0.134	0.021	4.37672E-10	KO	2700097O09R	0.113
Slc25a45	1.43274E-14	1.807124476	0.105	0.012	4.44907E-10	KO	Slc25a45	0.093
Cenpn	1.43354E-14	1.021268595	0.118	0.015	4.45157E-10	KO	Cenpn	0.103
Mtmr9	1.45319E-14	0.883787739	0.134	0.021	4.51261E-10	KO	Mtmr9	0.113
Pogz	1.46963E-14	0.908980244	0.168	0.034	4.56365E-10	KO	Pogz	0.134
Rasd2	1.49419E-14	1.226478312	0.088	0.007	4.6399E-10	KO	Rasd2	0.081
Dars2	1.5098E-14	1.892220629	0.105	0.012	4.68838E-10	KO	Dars2	0.093
Gm4707	1.52618E-14	0.716559159	0.118	0.015	4.73926E-10	KO	Gm4707	0.103
Rhebl1	1.5337E-14	1.262078592	0.105	0.012	4.76261E-10	KO	Rhebl1	0.093
Hist1h2ac	1.54976E-14	1.467932267	0.126	0.018	4.81248E-10	KO	Hist1h2ac	0.108
Rab3d	1.54985E-14	1.539440808	0.105	0.012	4.81274E-10	KO	Rab3d	0.093
Rnf41	1.62471E-14	0.696498456	0.118	0.015	5.04522E-10	KO	Rnf41	0.103
Stk35	1.64832E-14	0.787951892	0.118	0.015	5.11854E-10	KO	Stk35	0.103
Elmod2	1.6749E-14	0.879294795	0.126	0.018	5.20105E-10	KO	Elmod2	0.108
Mt3	1.71067E-14	0.705563166	0.176	0.038	5.31214E-10	KO	Mt3	0.138

Galns	1.72139E-14	0.894769141	0.126	0.018	5.34544E-10	KO	Galns	0.108
Ptpn3	1.73314E-14	1.362934804	0.084	0.006	5.38191E-10	KO	Ptpn3	0.078
Tbc1d13	1.77724E-14	0.771050441	0.126	0.018	5.51887E-10	KO	Tbc1d13	0.108
D630039A03R	1.93268E-14	1.851005512	0.08	0.005	6.00155E-10	KO	D630039A03R	0.075
Gm20069	1.9442E-14	1.720111432	0.076	0.004	6.03732E-10	KO	Gm20069	0.072
Nek4	1.97052E-14	1.367589039	0.076	0.004	6.11906E-10	KO	Nek4	0.072
Slc25a32	2.21218E-14	1.190808766	0.13	0.02	6.86949E-10	KO	Slc25a32	0.11
Spred2	2.44872E-14	1.123753573	0.122	0.017	7.60401E-10	KO	Spred2	0.105
Ercc6l	2.60142E-14	0.725361837	0.101	0.011	8.0782E-10	KO	Ercc6l	0.09
Nek1	2.62931E-14	1.006264834	0.101	0.011	8.16481E-10	KO	Nek1	0.09
Ric8b	2.63596E-14	0.701753435	0.113	0.014	8.18544E-10	KO	Ric8b	0.099
Xpnpep3	2.6717E-14	0.838325948	0.101	0.011	8.29644E-10	KO	Xpnpep3	0.09
Pot1b	2.72927E-14	1.043372948	0.101	0.011	8.47521E-10	KO	Pot1b	0.09
BC030867	2.80853E-14	0.806757113	0.113	0.014	8.72133E-10	KO	BC030867	0.099
Slc41a1	2.83146E-14	0.869677235	0.13	0.02	8.79253E-10	KO	Slc41a1	0.11
Ttc7b	3.53666E-14	0.988019607	0.155	0.03	1.09824E-09	KO	Ttc7b	0.125
Gm156	3.67531E-14	4.049669143	0.055	0	1.14129E-09	KO	Gm156	0.055
Retnla	3.67531E-14	3.758888346	0.055	0	1.14129E-09	KO	Retnla	0.055
Ogg1	3.68868E-14	0.941551663	0.097	0.01	1.14545E-09	KO	Ogg1	0.087
Xxylt1	3.9793E-14	1.451000816	0.109	0.013	1.23569E-09	KO	Xxylt1	0.096
Als2	4.00304E-14	1.421534254	0.097	0.01	1.24306E-09	KO	Als2	0.087
Zdhhc15	4.27337E-14	0.831685321	0.097	0.01	1.32701E-09	KO	Zdhhc15	0.087
Cenpi	4.42141E-14	1.572823678	0.134	0.022	1.37298E-09	KO	Cenpi	0.112
Gprin3	4.61523E-14	1.086037351	0.164	0.034	1.43317E-09	KO	Gprin3	0.13
Tmem39b	4.95145E-14	1.537185648	0.147	0.027	1.53757E-09	KO	Tmem39b	0.12
Zfp426	5.27134E-14	0.813813191	0.118	0.016	1.63691E-09	KO	Zfp426	0.102
Clgn	5.65845E-14	1.335618225	0.092	0.009	1.75712E-09	KO	Clgn	0.083
Hspa1a	5.67255E-14	1.022494413	0.252	0.075	1.7615E-09	KO	Hspa1a	0.177
Eme1	5.78625E-14	1.117401674	0.092	0.009	1.79681E-09	KO	Eme1	0.083
Invs	5.81864E-14	1.491979874	0.092	0.009	1.80686E-09	KO	Invs	0.083
Ksr1	5.90674E-14	1.104626817	0.105	0.013	1.83422E-09	KO	Ksr1	0.092
Rps6ka5	6.70145E-14	1.261786436	0.105	0.013	2.081E-09	KO	Rps6ka5	0.092
1700096K18R	6.80361E-14	1.371198851	0.105	0.013	2.11273E-09	KO	1700096K18R	0.092
Rbm19	6.86794E-14	0.718621469	0.139	0.024	2.1327E-09	KO	Rbm19	0.115
Filip1	7.26091E-14	0.888240825	0.143	0.026	2.25473E-09	KO	Filip1	0.117
Calca	8.27391E-14	1.684880778	0.059	0.001	2.5693E-09	KO	Calca	0.058
Pogk	8.44442E-14	0.808970256	0.113	0.015	2.62225E-09	KO	Pogk	0.098
Dhx32	9.10818E-14	0.826862954	0.113	0.015	2.82836E-09	KO	Dhx32	0.098
Dnajb14	9.40135E-14	0.760193897	0.13	0.021	2.9194E-09	KO	Dnajb14	0.109
Rasgef1b	1.05942E-13	1.484530223	0.084	0.007	3.28982E-09	KO	Rasgef1b	0.077
Plxdc2	1.08901E-13	1.396369948	0.101	0.012	3.38169E-09	KO	Plxdc2	0.089
Cep170b	1.17615E-13	0.783536315	0.101	0.012	3.65229E-09	KO	Cep170b	0.089
Ago1	1.18354E-13	0.740492431	0.147	0.028	3.67525E-09	KO	Ago1	0.119
Alg2	1.20052E-13	0.704540939	0.101	0.012	3.72797E-09	KO	Alg2	0.089
Tmc8	1.2984E-13	1.779892352	0.08	0.006	4.03191E-09	KO	Tmc8	0.074
Sema7a	1.34722E-13	0.802828535	0.134	0.023	4.18352E-09	KO	Sema7a	0.111
Bcl7a	1.38613E-13	2.830340042	0.076	0.005	4.30435E-09	KO	Bcl7a	0.071
Rida	1.40407E-13	0.732064833	0.134	0.023	4.36006E-09	KO	Rida	0.111
Mier2	1.41763E-13	1.594640696	0.109	0.014	4.40216E-09	KO	Mier2	0.095
Socs2	1.43301E-13	1.360594744	0.118	0.017	4.44992E-09	KO	Socs2	0.101
Parp11	1.49953E-13	1.14143521	0.118	0.017	4.65648E-09	KO	Parp11	0.101

Zfp950	1.5178E-13	0.768997643	0.176	0.04	4.71323E-09	KO	Zfp950	0.136
Edrf1	1.53081E-13	0.833140418	0.126	0.02	4.75364E-09	KO	Edrf1	0.106
Aplp1	1.58412E-13	1.495148127	0.076	0.005	4.91917E-09	KO	Aplp1	0.071
C230024C17R	1.59421E-13	1.675771793	0.076	0.005	4.9505E-09	KO	C230024C17R	0.071
Slc35b4	1.63438E-13	1.207099788	0.118	0.017	5.07524E-09	KO	Slc35b4	0.101
Igf2bp2	1.6434E-13	1.908088921	0.067	0.003	5.10324E-09	KO	Igf2bp2	0.064
Dis3l	1.64357E-13	0.848743271	0.097	0.011	5.10379E-09	KO	Dis3l	0.086
Pdp1	1.65655E-13	1.348264738	0.097	0.011	5.14409E-09	KO	Pdp1	0.086
Trim68	1.66647E-13	1.313890043	0.067	0.003	5.17488E-09	KO	Trim68	0.064
Dlg2	1.66664E-13	1.209289579	0.076	0.005	5.17541E-09	KO	Dlg2	0.071
B3galt5	1.76663E-13	1.070257404	0.071	0.004	5.48592E-09	KO	B3galt5	0.067
Rab43	1.7892E-13	0.854081728	0.118	0.017	5.556E-09	KO	Rab43	0.101
Ccna2	1.91932E-13	0.954789267	0.319	0.115	5.96006E-09	KO	Ccna2	0.204
2310031A07R	1.94036E-13	0.823152109	0.168	0.038	6.02539E-09	KO	2310031A07R	0.13
Riox1	2.21846E-13	1.19378626	0.13	0.022	6.88898E-09	KO	Riox1	0.108
Arhgap19	2.4383E-13	0.96104431	0.122	0.019	7.57165E-09	KO	Arhgap19	0.103
Capn10	2.6073E-13	1.482898167	0.092	0.01	8.09645E-09	KO	Capn10	0.082
Osgin1	2.63321E-13	0.891288099	0.105	0.013	8.17691E-09	KO	Osgin1	0.092
Tnfsf11	3.23904E-13	1.568336682	0.143	0.028	1.00582E-08	KO	Tnfsf11	0.115
Rfx5	3.52498E-13	0.752831009	0.113	0.016	1.09461E-08	KO	Rfx5	0.097
Tmem140	3.80119E-13	1.613966565	0.088	0.009	1.18038E-08	KO	Tmem140	0.079
Pef1	3.81729E-13	0.860461297	0.151	0.031	1.18538E-08	KO	Pef1	0.12
Naaa	3.97178E-13	1.628211765	0.088	0.009	1.23336E-08	KO	Naaa	0.079
Timmdc1	4.18448E-13	0.741846901	0.126	0.021	1.29941E-08	KO	Timmdc1	0.105
Zfp760	4.21869E-13	1.003783142	0.088	0.009	1.31003E-08	KO	Zfp760	0.079
Slc39a11	4.54457E-13	1.118272501	0.101	0.013	1.41122E-08	KO	Slc39a11	0.088
Mettl14	4.55821E-13	0.752095205	0.151	0.031	1.41546E-08	KO	Mettl14	0.12
Filip1l	4.62775E-13	0.727690346	0.126	0.021	1.43705E-08	KO	Filip1l	0.105
Med26	4.72774E-13	0.712697739	0.101	0.013	1.46811E-08	KO	Med26	0.088
Pacsin1	5.38089E-13	1.557510681	0.122	0.02	1.67093E-08	KO	Pacsin1	0.102
Prdm10	5.49847E-13	2.101867224	0.084	0.008	1.70744E-08	KO	Prdm10	0.076
Simc1	5.75216E-13	1.495552486	0.084	0.008	1.78622E-08	KO	Simc1	0.076
Mrm1	5.81735E-13	1.282667977	0.084	0.008	1.80646E-08	KO	Mrm1	0.076
Gm42670	5.81735E-13	0.959135179	0.084	0.008	1.80646E-08	KO	Gm42670	0.076
Ildr1	5.86396E-13	0.826560703	0.118	0.018	1.82093E-08	KO	Ildr1	0.1
Syvn1	6.00607E-13	0.817724898	0.139	0.026	1.86507E-08	KO	Syvn1	0.113
Crim1	6.23237E-13	1.675227478	0.097	0.012	1.93534E-08	KO	Crim1	0.085
Pxmp2	6.27921E-13	0.694872557	0.143	0.028	1.94988E-08	KO	Pxmp2	0.115
Ltb4r1	7.10538E-13	2.469228411	0.08	0.007	2.20643E-08	KO	Ltb4r1	0.073
Taf5	7.59919E-13	0.695702333	0.151	0.032	2.35978E-08	KO	Taf5	0.119
Bdh2	7.71875E-13	3.218573136	0.055	0.001	2.3969E-08	KO	Bdh2	0.054
Ahcy	7.76306E-13	0.923101325	0.113	0.017	2.41066E-08	KO	Ahcy	0.096
Ppm1f	7.98491E-13	0.838842271	0.122	0.02	2.47955E-08	KO	Ppm1f	0.102
Pclaf	8.05182E-13	1.019833143	0.445	0.211	2.50033E-08	KO	Pclaf	0.234
Aaed1	8.07467E-13	1.078374259	0.105	0.014	2.50743E-08	KO	Aaed1	0.091
Cep57l1	9.10192E-13	0.804278763	0.122	0.02	2.82642E-08	KO	Cep57l1	0.102
Lrr1	9.34171E-13	1.054393425	0.105	0.014	2.90088E-08	KO	Lrr1	0.091
Supt7l	9.34171E-13	0.897074903	0.105	0.014	2.90088E-08	KO	Supt7l	0.091
Myo18a	9.46154E-13	0.845832722	0.134	0.025	2.93809E-08	KO	Myo18a	0.109
Mknk1	9.71021E-13	0.789711619	0.126	0.022	3.01531E-08	KO	Mknk1	0.104
Acot2	9.77994E-13	0.934157135	0.113	0.017	3.03697E-08	KO	Acot2	0.096

Gm20342	1.02683E-12	1.19151062	0.118	0.019	3.1886E-08	KO	Gm20342	0.099
Pwwp2b	1.08802E-12	1.464038085	0.076	0.006	3.37862E-08	KO	Pwwp2b	0.07
Rcc1l	1.10306E-12	0.746547232	0.143	0.029	3.42534E-08	KO	Rcc1l	0.114
Socs5	1.12793E-12	1.4007068	0.076	0.006	3.50257E-08	KO	Socs5	0.07
Ckap2	1.16021E-12	1.052866529	0.218	0.062	3.6028E-08	KO	Ckap2	0.156
Evi2	1.19194E-12	1.80274859	0.059	0.002	3.70133E-08	KO	Evi2	0.057
Cenpf	1.19333E-12	0.78742781	0.311	0.114	3.70565E-08	KO	Cenpf	0.197
Smyd1	1.21755E-12	2.183514813	0.071	0.005	3.78085E-08	KO	Smyd1	0.066
Agbl5	1.22607E-12	0.906146171	0.092	0.011	3.80733E-08	KO	Agbl5	0.081
Ccnyl1	1.2641E-12	2.522799915	0.071	0.005	3.9254E-08	KO	Ccnyl1	0.066
Tsga10	1.28802E-12	1.568827612	0.071	0.005	3.9997E-08	KO	Tsga10	0.066
Enox2	1.31239E-12	0.845172314	0.071	0.005	4.07538E-08	KO	Enox2	0.066
Hdac10	1.32062E-12	1.515669438	0.071	0.005	4.10091E-08	KO	Hdac10	0.066
Chrne	1.34559E-12	1.542451666	0.071	0.005	4.17847E-08	KO	Chrne	0.066
Dab2ip	1.34559E-12	1.431365268	0.071	0.005	4.17847E-08	KO	Dab2ip	0.066
Ltf	1.35005E-12	2.974544234	0.063	0.003	4.19232E-08	KO	Ltf	0.06
Tmem35b	1.35939E-12	2.860890272	0.063	0.003	4.22131E-08	KO	Tmem35b	0.06
Gm20045	1.44466E-12	2.032286263	0.067	0.004	4.4861E-08	KO	Gm20045	0.063
Acyp2	1.49263E-12	0.835386074	0.067	0.004	4.63506E-08	KO	Acyp2	0.063
Galm	1.50241E-12	1.412855303	0.067	0.004	4.66542E-08	KO	Galm	0.063
Ltk	1.50241E-12	1.324507251	0.067	0.004	4.66542E-08	KO	Ltk	0.063
Kif3c	1.50241E-12	1.011464487	0.067	0.004	4.66542E-08	KO	Kif3c	0.063
Alg6	1.6121E-12	1.135325575	0.101	0.013	5.00605E-08	KO	Alg6	0.088
Marveld1	1.6121E-12	1.069696961	0.101	0.013	5.00605E-08	KO	Marveld1	0.088
Noct	1.64267E-12	0.829108497	0.151	0.033	5.101E-08	KO	Noct	0.118
Rad54b	1.6988E-12	0.699026584	0.101	0.013	5.27529E-08	KO	Rad54b	0.088
Ano8	1.84141E-12	1.191687795	0.088	0.01	5.71812E-08	KO	Ano8	0.078
Btd	1.84141E-12	0.842013295	0.088	0.01	5.71812E-08	KO	Btd	0.078
Pigq	1.9468E-12	0.881607824	0.147	0.031	6.0454E-08	KO	Pigq	0.116
Slc29a3	2.03665E-12	1.39077569	0.122	0.021	6.32441E-08	KO	Slc29a3	0.101
Ccdc102a	2.22949E-12	0.919822246	0.122	0.021	6.92324E-08	KO	Ccdc102a	0.101
Pus7	2.36557E-12	0.898020846	0.113	0.018	7.34579E-08	KO	Pus7	0.095
Gpt	2.77664E-12	1.242864198	0.084	0.009	8.62229E-08	KO	Gpt	0.075
Cyp4v3	2.8523E-12	1.121990748	0.084	0.009	8.85725E-08	KO	Cyp4v3	0.075
Ttc38	2.94577E-12	0.913691709	0.084	0.009	9.14751E-08	KO	Ttc38	0.075
Btbd6	2.96164E-12	1.147786077	0.084	0.009	9.19678E-08	KO	Btbd6	0.075
Cdon	3.14281E-12	0.788913335	0.105	0.015	9.75937E-08	KO	Cdon	0.09
Tfb2m	3.3747E-12	1.017551075	0.118	0.02	1.04795E-07	KO	Tfb2m	0.098
Dynlt1c	3.41082E-12	2.266060678	0.046	0	1.05916E-07	KO	Dynlt1c	0.046
Tbc1d4	3.53712E-12	1.372343324	0.122	0.022	1.09838E-07	KO	Tbc1d4	0.1
Mturn	4.32831E-12	0.828631158	0.08	0.008	1.34407E-07	KO	Mturn	0.072
Fancc	4.44017E-12	0.888070068	0.092	0.012	1.37881E-07	KO	Fancc	0.08
Cstad	4.44944E-12	0.792707986	0.08	0.008	1.38168E-07	KO	Cstad	0.072
Tspyl3	4.66347E-12	0.713044528	0.109	0.017	1.44815E-07	KO	Tspyl3	0.092
2900093K20R	4.82816E-12	1.339784521	0.092	0.012	1.49929E-07	KO	2900093K20R	0.08
Sirt1	5.36443E-12	0.699632445	0.151	0.034	1.66582E-07	KO	Sirt1	0.117
Zdhhc9	5.40533E-12	1.260650941	0.109	0.017	1.67852E-07	KO	Zdhhc9	0.092
Spef1	6.21077E-12	1.316605324	0.076	0.007	1.92863E-07	KO	Spef1	0.069
Nmral1	6.63788E-12	0.876415701	0.122	0.022	2.06126E-07	KO	Nmral1	0.1
Raver1	7.41256E-12	2.177766218	0.05	0.001	2.30182E-07	KO	Raver1	0.049
Sept2	7.47825E-12	1.010340583	0.088	0.011	2.32222E-07	KO	Sept2	0.077

Tmem171	7.66855E-12	1.183295447	0.088	0.011	2.38132E-07	KO	Tmem171	0.077
Nrros	7.70522E-12	1.23042303	0.151	0.035	2.3927E-07	KO	Nrros	0.116
Fam83d	7.76668E-12	0.970693859	0.097	0.013	2.41179E-07	KO	Fam83d	0.084
Pi4kb	8.02008E-12	0.772998923	0.113	0.019	2.49047E-07	KO	Pi4kb	0.094
Mtrr	8.02008E-12	0.694970195	0.113	0.019	2.49047E-07	KO	Mtrr	0.094
Ccsap	8.14487E-12	0.69420398	0.088	0.011	2.52923E-07	KO	Ccsap	0.077
Poc5	8.66688E-12	0.968149938	0.105	0.016	2.69133E-07	KO	Poc5	0.089
Mex3b	8.67427E-12	0.697289978	0.071	0.006	2.69362E-07	KO	Mex3b	0.065
Abhd17c	8.67696E-12	0.845231934	0.13	0.026	2.69446E-07	KO	Abhd17c	0.104
Kn1	1.02085E-11	0.870492952	0.248	0.083	3.17005E-07	KO	Kn1	0.165
Rad51b	1.03731E-11	0.710587029	0.097	0.013	3.22115E-07	KO	Rad51b	0.084
Gm17767	1.03844E-11	2.42863086	0.055	0.002	3.22466E-07	KO	Gm17767	0.053
Arc	1.15161E-11	2.381537423	0.063	0.004	3.57609E-07	KO	Arc	0.059
Zfp825	1.15689E-11	1.339195031	0.084	0.01	3.59249E-07	KO	Zfp825	0.074
Upk1a	1.15904E-11	1.797288531	0.063	0.004	3.59917E-07	KO	Upk1a	0.059
Ccdc112	1.25102E-11	1.678566585	0.059	0.003	3.8848E-07	KO	Ccdc112	0.056
Fktn	1.26248E-11	0.911917238	0.084	0.01	3.92038E-07	KO	Fktn	0.074
Zfp747	1.27674E-11	1.236810974	0.059	0.003	3.96467E-07	KO	Zfp747	0.056
Sass6	1.51571E-11	0.823623018	0.109	0.018	4.70672E-07	KO	Sass6	0.091
Frmd4b	1.62709E-11	0.801303427	0.126	0.025	5.0526E-07	KO	Frmd4b	0.101
Pced1a	1.65553E-11	1.09288259	0.101	0.015	5.1409E-07	KO	Pced1a	0.086
Trappc2	1.70019E-11	0.764463331	0.101	0.015	5.2796E-07	KO	Trappc2	0.086
Tarsl2	1.73509E-11	1.613033289	0.08	0.009	5.38799E-07	KO	Tarsl2	0.071
Asb2	1.91778E-11	1.498474318	0.08	0.009	5.9553E-07	KO	Asb2	0.071
Tmem206	1.96891E-11	1.218989368	0.08	0.009	6.11406E-07	KO	Tmem206	0.071
Plekhm3	2.0535E-11	1.110221009	0.08	0.009	6.37674E-07	KO	Plekhm3	0.071
Nefh	2.9719E-11	1.189392835	0.097	0.014	9.22865E-07	KO	Nefh	0.083
Vsig10	2.99651E-11	0.793475846	0.088	0.012	9.30505E-07	KO	Vsig10	0.076
Ndufaf5	3.02031E-11	0.962418601	0.118	0.022	9.37897E-07	KO	Ndufaf5	0.096
Elk1	3.06184E-11	0.806346767	0.076	0.008	9.50792E-07	KO	Elk1	0.068
Arhgef10	3.11187E-11	0.808544886	0.076	0.008	9.6633E-07	KO	Arhgef10	0.068
Rfxank	3.13649E-11	0.94971616	0.097	0.014	9.73974E-07	KO	Rfxank	0.083
Ifi214	3.16271E-11	0.785897062	0.076	0.008	9.82116E-07	KO	Ifi214	0.068
D830025C05R	3.17984E-11	0.728948394	0.076	0.008	9.87434E-07	KO	D830025C05R	0.068
Pgap3	3.21436E-11	0.768623271	0.076	0.008	9.98154E-07	KO	Pgap3	0.068
Atxn2	3.60749E-11	0.701116707	0.122	0.024	1.12023E-06	KO	Atxn2	0.098
Abcb10	4.29548E-11	1.537535621	0.071	0.007	1.33388E-06	KO	Abcb10	0.064
Zdhhc24	4.49148E-11	1.501255629	0.071	0.007	1.39474E-06	KO	Zdhhc24	0.064
Gm14326	4.77784E-11	1.014051134	0.084	0.011	1.48366E-06	KO	Gm14326	0.073
Golm1	4.9207E-11	0.760688569	0.084	0.011	1.52803E-06	KO	Golm1	0.073
Pisd	4.96642E-11	0.988113987	0.101	0.016	1.54222E-06	KO	Pisd	0.085
Cd1d1	5.00915E-11	0.769602604	0.101	0.016	1.55549E-06	KO	Cd1d1	0.085
Jrkl	5.06601E-11	2.01700643	0.092	0.013	1.57315E-06	KO	Jrkl	0.079
Pcgf2	5.08357E-11	1.103875665	0.113	0.021	1.5786E-06	KO	Pcgf2	0.092
P2rx4	5.27821E-11	1.027145856	0.092	0.013	1.63904E-06	KO	P2rx4	0.079
Nkiras1	5.70678E-11	0.707047665	0.134	0.03	1.77213E-06	KO	Nkiras1	0.104
C2cd4b	5.8594E-11	2.201792338	0.067	0.006	1.81952E-06	KO	C2cd4b	0.061
Recql5	6.06625E-11	1.808204525	0.067	0.006	1.88375E-06	KO	Recql5	0.061
CAAA0114733	6.9894E-11	1.794363868	0.046	0.001	2.17042E-06	KO	CAAA0114733	0.045
Hmga1b	6.9894E-11	1.722229652	0.046	0.001	2.17042E-06	KO	Hmga1b	0.045
3300005D01R	7.39873E-11	1.072794002	0.08	0.01	2.29753E-06	KO	3300005D01R	0.07

Cdh24	7.85913E-11	2.381085497	0.063	0.005	2.4405E-06	KO	Cdh24	0.058
Pask	8.26268E-11	0.881539893	0.08	0.01	2.56581E-06	KO	Pask	0.07
Zfp169	8.44769E-11	0.862010985	0.063	0.005	2.62326E-06	KO	Zfp169	0.058
Hook2	8.77459E-11	0.919410389	0.097	0.015	2.72477E-06	KO	Hook2	0.082
AU041133	8.77473E-11	0.779441799	0.08	0.01	2.72482E-06	KO	AU041133	0.07
Zfp983	9.25053E-11	2.384261925	0.05	0.002	2.87257E-06	KO	Zfp983	0.048
Gm10031	9.38385E-11	2.336611511	0.05	0.002	2.91397E-06	KO	Gm10031	0.048
Zfp973	9.58736E-11	1.81936274	0.05	0.002	2.97716E-06	KO	Zfp973	0.048
Gm6710	9.60903E-11	1.324336515	0.088	0.013	2.98389E-06	KO	Gm6710	0.075
Ii5	9.65615E-11	2.916162615	0.05	0.002	2.99853E-06	KO	Ii5	0.048
Wscd2	9.79518E-11	2.266363252	0.05	0.002	3.0417E-06	KO	Wscd2	0.048
Slc37a1	9.82004E-11	0.762254472	0.097	0.015	3.04942E-06	KO	Slc37a1	0.082
Gm7160	9.86541E-11	1.358277019	0.05	0.002	3.06351E-06	KO	Gm7160	0.048
Grk5	1.01446E-10	1.211767971	0.059	0.004	3.1502E-06	KO	Grk5	0.055
Hacl1	1.02734E-10	0.873061477	0.059	0.004	3.19019E-06	KO	Hacl1	0.055
Ddias	1.04906E-10	0.828654881	0.088	0.013	3.25763E-06	KO	Ddias	0.075
Atxn1l	1.10914E-10	0.757849478	0.109	0.02	3.44422E-06	KO	Atxn1l	0.089
Susd1	1.16529E-10	1.163832762	0.076	0.009	3.61858E-06	KO	Susd1	0.067
Zfp280b	1.27385E-10	0.706163913	0.113	0.022	3.95568E-06	KO	Zfp280b	0.091
Tada2b	1.27841E-10	1.269531853	0.076	0.009	3.96985E-06	KO	Tada2b	0.067
Klhl18	1.27933E-10	0.862674238	0.101	0.017	3.9727E-06	KO	Klhl18	0.084
Ddx11	1.36703E-10	1.122664543	0.101	0.017	4.24503E-06	KO	Ddx11	0.084
Frmf6	1.50291E-10	1.565416855	0.092	0.014	4.66698E-06	KO	Frmf6	0.078
Palb2	1.71058E-10	0.741470035	0.084	0.012	5.31186E-06	KO	Palb2	0.072
Zfp626	1.7446E-10	1.056212481	0.092	0.014	5.4175E-06	KO	Zfp626	0.078
Zfp653	1.76766E-10	0.828538241	0.092	0.014	5.48912E-06	KO	Zfp653	0.078
Bcl2l2	2.00469E-10	0.933045725	0.071	0.008	6.22517E-06	KO	Bcl2l2	0.063
Gm16754	2.04751E-10	0.988916187	0.071	0.008	6.35812E-06	KO	Gm16754	0.063
Ccdc138	2.1246E-10	0.95596197	0.071	0.008	6.59751E-06	KO	Ccdc138	0.063
Dna2	2.52631E-10	0.770093219	0.109	0.021	7.84494E-06	KO	Dna2	0.088
Pxylp1	2.64583E-10	0.703198449	0.097	0.016	8.21608E-06	KO	Pxylp1	0.081
Irgm2	2.70163E-10	1.197110858	0.097	0.016	8.38938E-06	KO	Irgm2	0.081
Yipf2	3.00181E-10	0.957208246	0.088	0.013	9.32154E-06	KO	Yipf2	0.075
Usp11	3.0124E-10	0.773623005	0.08	0.011	9.35442E-06	KO	Usp11	0.069
Trmo	3.02164E-10	1.282053595	0.067	0.007	9.3831E-06	KO	Trmo	0.06
Gins3	3.05562E-10	1.23157212	0.088	0.013	9.4886E-06	KO	Gins3	0.075
Ebi3	3.09658E-10	1.248413185	0.088	0.013	9.61582E-06	KO	Ebi3	0.075
Nsl1	3.13809E-10	0.700768821	0.088	0.013	9.7447E-06	KO	Nsl1	0.075
Fsbp	3.17067E-10	1.804764496	0.038	0	9.84589E-06	KO	Fsbp	0.038
Chek2	3.22581E-10	1.193588507	0.067	0.007	1.00171E-05	KO	Chek2	0.06
Zfp991	3.27892E-10	1.022340381	0.067	0.007	1.0182E-05	KO	Zfp991	0.06
Trgv2	3.3148E-10	0.779942074	0.067	0.007	1.02934E-05	KO	Trgv2	0.06
Efcab11	3.33288E-10	0.78587953	0.067	0.007	1.03496E-05	KO	Efcab11	0.06
Numb	3.57509E-10	0.823186212	0.101	0.018	1.11017E-05	KO	Numb	0.083
Egr2	4.13909E-10	2.310568697	0.063	0.006	1.28531E-05	KO	Egr2	0.057
Snx29	4.3307E-10	1.72140237	0.063	0.006	1.34481E-05	KO	Snx29	0.057
Olfr1369-ps1	4.50544E-10	1.960930928	0.063	0.006	1.39907E-05	KO	Olfr1369-ps1	0.057
Poll	4.72075E-10	0.708941864	0.092	0.015	1.46594E-05	KO	Poll	0.077
Rnf43	4.82114E-10	0.813664227	0.063	0.006	1.49711E-05	KO	Rnf43	0.057
Mpv17	5.05785E-10	1.16334626	0.076	0.01	1.57062E-05	KO	Mpv17	0.066
Sipa1l3	5.13261E-10	0.928902168	0.076	0.01	1.59383E-05	KO	Sipa1l3	0.066

Gemin8	5.20162E-10	0.838743631	0.092	0.015	1.61526E-05	KO	Gemin8	0.077
Abhd4	5.35723E-10	0.715971482	0.092	0.015	1.66358E-05	KO	Abhd4	0.077
Trim36	5.41179E-10	1.322106874	0.084	0.013	1.68052E-05	KO	Trim36	0.071
Dhrs13	5.63572E-10	0.925207983	0.084	0.013	1.75006E-05	KO	Dhrs13	0.071
Mettl21a	6.00114E-10	0.931659104	0.109	0.022	1.86353E-05	KO	Mettl21a	0.087
Platr17	6.57352E-10	1.282488487	0.042	0.001	2.04127E-05	KO	Platr17	0.041
Zfp236	6.83257E-10	0.717876095	0.109	0.022	2.12172E-05	KO	Zfp236	0.087
Styk1	8.23243E-10	3.262629985	0.046	0.002	2.55642E-05	KO	Styk1	0.044
Ighmbp2	8.5043E-10	0.953420337	0.071	0.009	2.64084E-05	KO	Ighmbp2	0.062
Ovol2	8.64877E-10	1.859601061	0.046	0.002	2.6857E-05	KO	Ovol2	0.044
Gm26510	8.8076E-10	1.126707445	0.071	0.009	2.73502E-05	KO	Gm26510	0.062
Katnal1	8.83342E-10	1.602608659	0.046	0.002	2.74304E-05	KO	Katnal1	0.044
Nap1l3	8.89582E-10	1.603744181	0.046	0.002	2.76242E-05	KO	Nap1l3	0.044
BC048403	9.08125E-10	1.764815168	0.05	0.003	2.82E-05	KO	BC048403	0.047
Serpinb1b	9.20106E-10	1.705945926	0.05	0.003	2.85721E-05	KO	Serpinb1b	0.047
Ralgps1	9.32242E-10	0.71579513	0.05	0.003	2.89489E-05	KO	Ralgps1	0.047
Phf11a	1.00005E-09	0.881842642	0.08	0.012	3.10545E-05	KO	Phf11a	0.068
Hspa2	1.01197E-09	0.716926641	0.126	0.03	3.14246E-05	KO	Hspa2	0.096
Gm14325	1.17927E-09	1.008614875	0.067	0.008	3.662E-05	KO	Gm14325	0.059
Zfp317	1.22075E-09	0.890534825	0.105	0.021	3.7908E-05	KO	Zfp317	0.084
Xcl1	1.28003E-09	2.989411149	0.202	0.071	3.97487E-05	KO	Xcl1	0.131
Trbc1	1.31442E-09	0.776400307	0.618	0.427	4.08166E-05	KO	Trbc1	0.191
Hsh2d	1.32784E-09	0.955554579	0.067	0.008	4.12333E-05	KO	Hsh2d	0.059
Igip	1.34159E-09	1.284625268	0.067	0.008	4.16603E-05	KO	Igip	0.059
Mgme1	1.34851E-09	1.523006734	0.067	0.008	4.18753E-05	KO	Mgme1	0.059
Gm49359	1.35547E-09	1.047651061	0.067	0.008	4.20915E-05	KO	Gm49359	0.059
Lppos	1.3597E-09	0.80112688	0.105	0.021	4.22229E-05	KO	Lppos	0.084
Pdp2	1.3695E-09	0.817810801	0.067	0.008	4.25271E-05	KO	Pdp2	0.059
Urgcp	1.42731E-09	0.87733288	0.109	0.023	4.43224E-05	KO	Urgcp	0.086
Armc3	1.47173E-09	0.725339822	0.067	0.008	4.57016E-05	KO	Armc3	0.059
Gm37494	2.00403E-09	0.74712574	0.097	0.018	6.22312E-05	KO	Gm37494	0.079
Arl10	2.0392E-09	0.87594911	0.063	0.007	6.33234E-05	KO	Arl10	0.056
Ntrk3	2.07055E-09	1.807436365	0.088	0.015	6.42969E-05	KO	Ntrk3	0.073
Socs6	2.11005E-09	1.616701063	0.101	0.02	6.55234E-05	KO	Socs6	0.081
D11Wsu47e	2.16194E-09	1.11357359	0.063	0.007	6.71348E-05	KO	D11Wsu47e	0.056
Tpst1	2.19665E-09	1.118248476	0.063	0.007	6.82124E-05	KO	Tpst1	0.056
Ccdc137	2.22008E-09	0.898035851	0.063	0.007	6.89402E-05	KO	Ccdc137	0.056
Adal	2.22008E-09	0.837084631	0.063	0.007	6.89402E-05	KO	Adal	0.056
2900076A07R	2.89722E-09	1.790530242	0.071	0.01	8.99672E-05	KO	2900076A07R	0.061
Mettl13	3.00975E-09	1.062653566	0.071	0.01	9.34616E-05	KO	Mettl13	0.061
Magi3	3.03854E-09	0.815881515	0.071	0.01	9.43557E-05	KO	Magi3	0.061
Trav7d-3	3.06556E-09	2.345156513	0.034	0	9.51947E-05	KO	Trav7d-3	0.034
Spint1	3.06556E-09	2.340418324	0.034	0	9.51947E-05	KO	Spint1	0.034
Gm6594	3.06556E-09	1.466581111	0.034	0	9.51947E-05	KO	Gm6594	0.034
Jazf1	3.22728E-09	1.593638326	0.059	0.006	0.000100217	KO	Jazf1	0.053
Map6	3.2451E-09	1.700512928	0.059	0.006	0.00010077	KO	Map6	0.053
Gm21887	3.29913E-09	1.006082207	0.059	0.006	0.000102448	KO	Gm21887	0.053
Galnt10	3.31733E-09	1.059857447	0.059	0.006	0.000103013	KO	Galnt10	0.053
Tpm3-rs7	4.48376E-09	1.799363302	0.055	0.005	0.000139234	KO	Tpm3-rs7	0.05
Arl4d	4.53315E-09	1.028796062	0.084	0.014	0.000140768	KO	Arl4d	0.07
Tmem185b	4.72169E-09	1.806947494	0.055	0.005	0.000146622	KO	Tmem185b	0.05

Spo11	4.7762E-09	1.09241843	0.055	0.005	0.000148315	KO	Spo11	0.05
Syngn3	4.88708E-09	1.235503549	0.055	0.005	0.000151759	KO	Syngn3	0.05
1110046J04Ri	4.88708E-09	0.956764195	0.055	0.005	0.000151759	KO	1110046J04Ri	0.05
Prune2	4.91519E-09	0.74686682	0.055	0.005	0.000152631	KO	Prune2	0.05
Cnih2	5.07183E-09	1.189633996	0.067	0.009	0.000157495	KO	Cnih2	0.058
Ankle1	5.50959E-09	0.955206234	0.067	0.009	0.000171089	KO	Ankle1	0.058
Art2b	5.98075E-09	2.300697295	0.038	0.001	0.00018572	KO	Art2b	0.037
Gm20300	6.07269E-09	2.014191508	0.038	0.001	0.000188575	KO	Gm20300	0.037
Gm11707	6.16142E-09	1.331870192	0.05	0.004	0.00019133	KO	Gm11707	0.046
Mir17hg	6.16142E-09	0.938389003	0.05	0.004	0.00019133	KO	Mir17hg	0.046
Pus3	6.16397E-09	0.744510146	0.088	0.016	0.00019141	KO	Pus3	0.072
Wwc1	6.166E-09	1.558962856	0.038	0.001	0.000191473	KO	Wwc1	0.037
Etaa1os	6.31206E-09	1.337229383	0.05	0.004	0.000196008	KO	Etaa1os	0.046
Ifit1bl1	6.54476E-09	0.937298971	0.05	0.004	0.000203234	KO	Ifit1bl1	0.046
Frs2	7.19344E-09	0.766384404	0.118	0.029	0.000223378	KO	Frs2	0.089
Pak6	7.34947E-09	2.190225563	0.046	0.003	0.000228223	KO	Pak6	0.043
Gm6793	7.49239E-09	1.352061337	0.046	0.003	0.000232661	KO	Gm6793	0.043
Pomt2	7.54063E-09	0.984955342	0.046	0.003	0.000234159	KO	Pomt2	0.043
Gstt3	7.63801E-09	1.321313387	0.046	0.003	0.000237183	KO	Gstt3	0.043
Gm20498	7.68716E-09	1.726450205	0.046	0.003	0.000238709	KO	Gm20498	0.043
Klra3	7.73662E-09	1.65708361	0.046	0.003	0.000240245	KO	Klra3	0.043
9130011E15Ri	7.73662E-09	1.099918233	0.046	0.003	0.000240245	KO	9130011E15Ri	0.043
Zfp58	7.78638E-09	1.103548201	0.046	0.003	0.000241791	KO	Zfp58	0.043
Atrnl1	7.78638E-09	0.780514413	0.046	0.003	0.000241791	KO	Atrnl1	0.043
Zkscan7	7.78638E-09	0.750134856	0.046	0.003	0.000241791	KO	Zkscan7	0.043
Afg1l	7.83078E-09	1.46424401	0.042	0.002	0.000243169	KO	Afg1l	0.04
Gm10658	7.88514E-09	1.441677427	0.042	0.002	0.000244857	KO	Gm10658	0.04
2210011C24R	7.88514E-09	0.940114863	0.042	0.002	0.000244857	KO	2210011C24R	0.04
Rgs11	8.71502E-09	1.440803942	0.063	0.008	0.000270628	KO	Rgs11	0.055
Wdr74	8.71502E-09	1.418021679	0.063	0.008	0.000270628	KO	Wdr74	0.055
Kcnq5	9.25393E-09	1.044178775	0.063	0.008	0.000287362	KO	Kcnq5	0.055
Gm16062	9.44066E-09	1.01220294	0.063	0.008	0.000293161	KO	Gm16062	0.055
Hlcs	9.51801E-09	0.932535547	0.097	0.02	0.000295563	KO	Hlcs	0.077
AC165953.2	1.04762E-08	0.83823323	0.071	0.011	0.000325318	KO	AC165953.2	0.06
Gla	1.18256E-08	0.97690143	0.084	0.015	0.000367222	KO	Gla	0.069
Il1rl1	1.2431E-08	2.696016761	0.076	0.013	0.000386019	KO	Il1rl1	0.063
Zfp282	1.2477E-08	0.704757811	0.122	0.032	0.000387448	KO	Zfp282	0.09
Ydjc	1.32445E-08	0.707696154	0.105	0.024	0.000411282	KO	Ydjc	0.081
D930016D06R	1.40952E-08	1.156122696	0.059	0.007	0.000437698	KO	D930016D06R	0.052
Oas3	1.44636E-08	1.346048787	0.059	0.007	0.000449139	KO	Oas3	0.052
Dpy19l3	1.46136E-08	1.144501673	0.059	0.007	0.000453796	KO	Dpy19l3	0.052
Tmem177	1.49181E-08	0.96380877	0.059	0.007	0.000463252	KO	Tmem177	0.052
4833407H14R	1.51505E-08	0.791958879	0.059	0.007	0.000470469	KO	4833407H14R	0.052
St3gal3	1.59885E-08	1.053818867	0.076	0.013	0.000496491	KO	St3gal3	0.063
Nkrf	1.65774E-08	1.089961967	0.067	0.01	0.000514778	KO	Nkrf	0.057
Prkab2	1.66823E-08	0.875004011	0.076	0.013	0.000518035	KO	Prkab2	0.063
Vwa5a	1.79456E-08	1.825070022	0.088	0.017	0.000557264	KO	Vwa5a	0.071
Gm20275	2.14229E-08	0.966362027	0.055	0.006	0.000665245	KO	Gm20275	0.049
Zfp827	2.23605E-08	1.388483033	0.055	0.006	0.000694361	KO	Zfp827	0.049
Unc5cl	2.24805E-08	1.816961363	0.055	0.006	0.000698086	KO	Unc5cl	0.049
Slc9b2	2.27223E-08	1.19228864	0.055	0.006	0.000705595	KO	Slc9b2	0.049

Gm33782	2.29666E-08	1.51773537	0.055	0.006	0.000713183	KO	Gm33782	0.049
Prr11	2.3266E-08	1.026814843	0.105	0.025	0.000722478	KO	Prr11	0.08
Gm20707	2.33379E-08	0.750921145	0.055	0.006	0.000724712	KO	Gm20707	0.049
St3gal1	2.37116E-08	0.815096356	0.134	0.038	0.000736317	KO	St3gal1	0.096
Slc35e3	2.3715E-08	0.987593766	0.055	0.006	0.000736423	KO	Slc35e3	0.049
Apol7e	2.3715E-08	0.866497783	0.055	0.006	0.000736423	KO	Apol7e	0.049
Caprin2	2.38421E-08	0.710881111	0.055	0.006	0.000740367	KO	Caprin2	0.049
Srp54c	2.9748E-08	1.446141015	0.029	0	0.000923765	KO	Srp54c	0.029
Slc32a1	2.9748E-08	1.418508266	0.029	0	0.000923765	KO	Slc32a1	0.029
Pigg	3.12163E-08	1.033049953	0.063	0.009	0.00096936	KO	Pigg	0.054
Chst10	3.23622E-08	0.755087463	0.071	0.012	0.001004942	KO	Chst10	0.059
Zfyve21	3.35059E-08	0.823501324	0.063	0.009	0.00104046	KO	Zfyve21	0.054
Ankrd29	3.36512E-08	1.579135756	0.05	0.005	0.001044972	KO	Ankrd29	0.045
Phf11d	3.40292E-08	1.324920443	0.05	0.005	0.001056707	KO	Phf11d	0.045
Miga2	3.4992E-08	1.58221764	0.05	0.005	0.001086607	KO	Miga2	0.045
Gm10184	3.53845E-08	1.063546842	0.05	0.005	0.001098795	KO	Gm10184	0.045
Ccl1	3.5797E-08	2.635460305	0.126	0.037	0.001111605	KO	Ccl1	0.089
Noc3l	4.0059E-08	0.859998789	0.092	0.02	0.001243953	KO	Noc3l	0.072
Usp54	4.90451E-08	1.016355351	0.046	0.004	0.001522997	KO	Usp54	0.042
Pop1	5.00196E-08	0.723009669	0.105	0.026	0.001553259	KO	Pop1	0.079
Atcay	5.02105E-08	0.882413543	0.046	0.004	0.001559187	KO	Atcay	0.042
Kcnip3	5.02105E-08	0.876262925	0.046	0.004	0.001559187	KO	Kcnip3	0.042
Xpo5	5.29789E-08	1.18059181	0.067	0.011	0.001645155	KO	Xpo5	0.056
Lcn4	5.41537E-08	0.870479818	0.067	0.011	0.001681635	KO	Lcn4	0.056
Prmt2	5.51117E-08	0.949535066	0.067	0.011	0.001711383	KO	Prmt2	0.056
Urb1	5.55968E-08	0.751718806	0.067	0.011	0.001726447	KO	Urb1	0.056
2410131K14R	5.60413E-08	0.819785482	0.08	0.015	0.00174025	KO	2410131K14R	0.065
Lif	5.68101E-08	2.834863269	0.034	0.001	0.001764125	KO	Lif	0.033
4930570N18R	5.7672E-08	1.737081098	0.034	0.001	0.001790888	KO	4930570N18R	0.033
Zfp420	5.7672E-08	1.486912342	0.034	0.001	0.001790888	KO	Zfp420	0.033
Myo16	5.7672E-08	0.962165577	0.034	0.001	0.001790888	KO	Myo16	0.033
Mccc2	6.30215E-08	1.397219971	0.042	0.003	0.001957007	KO	Mccc2	0.039
Nrbp2	6.38147E-08	1.226589991	0.042	0.003	0.001981638	KO	Nrbp2	0.039
Hyal1	6.72113E-08	2.132568576	0.038	0.002	0.002087111	KO	Hyal1	0.036
C030037D09R	6.81288E-08	1.619953968	0.038	0.002	0.002115604	KO	C030037D09R	0.036
Tgtp2	6.81288E-08	1.5743498	0.038	0.002	0.002115604	KO	Tgtp2	0.036
Ptgr1	6.81288E-08	1.029444404	0.038	0.002	0.002115604	KO	Ptgr1	0.036
Ube2c	6.85503E-08	0.693899402	0.399	0.207	0.002128691	KO	Ube2c	0.192
Osr2	6.85921E-08	1.429183963	0.038	0.002	0.002129991	KO	Osr2	0.036
Slc2a9	6.90585E-08	1.388197421	0.038	0.002	0.002144473	KO	Slc2a9	0.036
Kdm8	6.90585E-08	1.175370137	0.038	0.002	0.002144473	KO	Kdm8	0.036
Gm2682	7.18619E-08	1.030947568	0.084	0.017	0.002231528	KO	Gm2682	0.067
Ptprk	7.31964E-08	1.210850714	0.092	0.021	0.002272967	KO	Ptprk	0.071
Fbxo32	7.84873E-08	0.701043321	0.084	0.017	0.002437265	KO	Fbxo32	0.067
Fam122b	7.90653E-08	0.776422148	0.084	0.017	0.002455216	KO	Fam122b	0.067
Itga1	8.52236E-08	0.940117724	0.088	0.019	0.002646448	KO	Itga1	0.069
Bckdhb	8.57431E-08	0.861581012	0.071	0.013	0.00266258	KO	Bckdhb	0.058
Ust	9.64924E-08	1.587966701	0.055	0.007	0.002996377	KO	Ust	0.048
Polr1e	9.68165E-08	0.808918053	0.092	0.021	0.003006443	KO	Polr1e	0.071
Fchsd1	9.74599E-08	0.871747795	0.055	0.007	0.003026423	KO	Fchsd1	0.048
Tmtc4	9.79472E-08	0.77386819	0.055	0.007	0.003041554	KO	Tmtc4	0.048

Itgb8	1.04877E-07	1.114011167	0.063	0.01	0.003256746	KO	Itgb8	0.053
Ccdc28b	1.10915E-07	0.916966915	0.105	0.027	0.003444231	KO	Ccdc28b	0.078
3010003L21Ri	1.1338E-07	1.1363752	0.076	0.014	0.00352079	KO	3010003L21Ri	0.062
Gpr19	1.54046E-07	1.40078611	0.05	0.006	0.004783605	KO	Gpr19	0.044
Rad51c	1.56457E-07	1.13430996	0.05	0.006	0.004858445	KO	Rad51c	0.044
Armc6	1.58684E-07	1.00888611	0.067	0.012	0.004927628	KO	Armc6	0.055
Bace2	1.61348E-07	0.763325642	0.067	0.012	0.005010333	KO	Bace2	0.055
Tlcd2	1.64738E-07	0.817071334	0.067	0.012	0.005115604	KO	Tlcd2	0.055
Serpinb1a	1.79253E-07	1.721467958	0.059	0.009	0.005566336	KO	Serpinb1a	0.05
Kcnmb4	1.8507E-07	1.219119296	0.059	0.009	0.005746984	KO	Kcnmb4	0.05
Hus1	1.88069E-07	1.059145146	0.088	0.02	0.005840104	KO	Hus1	0.068
Harbi1	1.90201E-07	0.850138424	0.059	0.009	0.005906324	KO	Harbi1	0.05
Syne2	2.30599E-07	0.779899109	0.071	0.013	0.007160794	KO	Syne2	0.058
Cxxc5	2.35523E-07	1.511528642	0.046	0.005	0.0073137	KO	Cxxc5	0.041
4930524J08Ri	2.55398E-07	0.861855864	0.046	0.005	0.007930885	KO	4930524J08Ri	0.041
Csrnp2	2.56779E-07	0.980670202	0.046	0.005	0.007973772	KO	Csrnp2	0.041
Bik	2.56779E-07	0.701712548	0.046	0.005	0.007973772	KO	Bik	0.041
Mid2	2.6367E-07	1.190549078	0.076	0.015	0.008187743	KO	Mid2	0.061
Il4	2.90339E-07	2.412720684	0.025	0	0.009015911	KO	Il4	0.025
Gm20139	2.90339E-07	2.088350581	0.025	0	0.009015911	KO	Gm20139	0.025
Ttbk2	2.90339E-07	1.879937495	0.025	0	0.009015911	KO	Ttbk2	0.025
Slc15a1	2.90339E-07	1.834918816	0.025	0	0.009015911	KO	Slc15a1	0.025
Pdzd2	2.90339E-07	1.624547647	0.025	0	0.009015911	KO	Pdzd2	0.025
Cfap126	2.90339E-07	1.616541057	0.025	0	0.009015911	KO	Cfap126	0.025
Gm3435	2.90339E-07	1.466576227	0.025	0	0.009015911	KO	Gm3435	0.025
Slc17a9	2.93963E-07	1.246906528	0.063	0.011	0.009128422	KO	Slc17a9	0.052
Sumf2	3.0024E-07	0.909189127	0.063	0.011	0.009323351	KO	Sumf2	0.052
Gm5141	3.09246E-07	0.715430281	0.063	0.011	0.009603016	KO	Gm5141	0.052
A430078G23R	3.11867E-07	0.849684268	0.063	0.011	0.009684397	KO	A430078G23R	0.052
Zbtb34	3.14509E-07	1.249374255	0.063	0.011	0.009766443	KO	Zbtb34	0.052
Usp21	3.19858E-07	0.830455194	0.063	0.011	0.009932554	KO	Usp21	0.052
Rab23	3.40907E-07	1.431110748	0.055	0.008	0.010586188	KO	Rab23	0.047
Plagl1	3.40907E-07	1.302209126	0.055	0.008	0.010586188	KO	Plagl1	0.047
Slc27a4	3.40907E-07	0.709730859	0.055	0.008	0.010586188	KO	Slc27a4	0.047
Rpp38	3.42503E-07	1.285643017	0.055	0.008	0.010635743	KO	Rpp38	0.047
Kantr	3.50591E-07	0.880872146	0.055	0.008	0.010886898	KO	Kantr	0.047
Abhd6	3.5223E-07	0.916224625	0.055	0.008	0.010937811	KO	Abhd6	0.047
Gm10827	3.56036E-07	1.64077939	0.042	0.004	0.011055982	KO	Gm10827	0.038
Zfp940	3.58069E-07	1.105122135	0.042	0.004	0.01111913	KO	Zfp940	0.038
Mettl8	3.6217E-07	1.160818263	0.042	0.004	0.011246472	KO	Mettl8	0.038
Ninj2	3.66316E-07	1.289453347	0.042	0.004	0.01137522	KO	Ninj2	0.038
Reck	3.68407E-07	1.27250047	0.042	0.004	0.011440127	KO	Reck	0.038
Hist1h2ag	3.76883E-07	0.879751411	0.042	0.004	0.011703347	KO	Hist1h2ag	0.038
Acpp	3.79031E-07	1.027341084	0.042	0.004	0.011770059	KO	Acpp	0.038
6330418K02R	3.79031E-07	0.987897783	0.042	0.004	0.011770059	KO	6330418K02R	0.038
Naif1	3.79031E-07	0.862956127	0.042	0.004	0.011770059	KO	Naif1	0.038
Glis1	3.79031E-07	0.781025204	0.042	0.004	0.011770059	KO	Glis1	0.038
Tnfsf14	5.05002E-07	1.289332877	0.038	0.003	0.015681814	KO	Tnfsf14	0.035
Gpr35	5.08077E-07	0.930606342	0.038	0.003	0.015777318	KO	Gpr35	0.035
Depdc1b	5.11171E-07	1.125278687	0.038	0.003	0.015873383	KO	Depdc1b	0.035
Gipc3	5.11171E-07	1.11513648	0.038	0.003	0.015873383	KO	Gipc3	0.035

Gm26614	5.14247E-07	1.908964904	0.029	0.001	0.015968898	KO	Gm26614	0.028
Alpk2	5.33672E-07	3.070544864	0.029	0.001	0.016572111	KO	Alpk2	0.028
Chrnbl	5.33672E-07	1.74598667	0.029	0.001	0.016572111	KO	Chrnbl	0.028
Gm28187	5.37641E-07	1.420645412	0.029	0.001	0.016695362	KO	Gm28187	0.028
Psd	5.37641E-07	1.290679287	0.029	0.001	0.016695362	KO	Psd	0.028
Gm4668	5.37641E-07	1.28081636	0.029	0.001	0.016695362	KO	Gm4668	0.028
Gprc5a	5.37641E-07	1.265712486	0.029	0.001	0.016695362	KO	Gprc5a	0.028
Ccr4	5.37641E-07	1.025654664	0.029	0.001	0.016695362	KO	Ccr4	0.028
Tmppe	5.37641E-07	0.970772473	0.029	0.001	0.016695362	KO	Tmppe	0.028
Il10	5.4866E-07	2.872344017	0.05	0.007	0.017037547	KO	Il10	0.043
Ptgfrn	5.51585E-07	1.338510283	0.059	0.01	0.01712838	KO	Ptgfrn	0.049
6720489N17R	5.84203E-07	1.567294732	0.034	0.002	0.018141246	KO	6720489N17R	0.032
Gm340	5.88078E-07	2.715788723	0.034	0.002	0.01826158	KO	Gm340	0.032
Gm27003	5.89784E-07	0.797414796	0.05	0.007	0.018314568	KO	Gm27003	0.043
Adarb2	5.91978E-07	0.938379687	0.034	0.002	0.018382684	KO	Adarb2	0.032
Serpini1	5.91978E-07	0.79796297	0.034	0.002	0.018382684	KO	Serpini1	0.032
Fam19a3	5.95903E-07	1.45226583	0.034	0.002	0.018504561	KO	Fam19a3	0.032
Cdk5r1	5.95903E-07	1.191903363	0.034	0.002	0.018504561	KO	Cdk5r1	0.032
Dlg3	5.95903E-07	1.183117239	0.034	0.002	0.018504561	KO	Dlg3	0.032
Fam89a	5.95903E-07	1.139893476	0.034	0.002	0.018504561	KO	Fam89a	0.032
2810455O05R	5.95903E-07	0.762717899	0.034	0.002	0.018504561	KO	2810455O05R	0.032
Top1mt	6.04141E-07	0.990965627	0.05	0.007	0.018760386	KO	Top1mt	0.043
Bdh1	6.67519E-07	0.697117572	0.08	0.018	0.020728455	KO	Bdh1	0.062
Lta	7.65661E-07	1.504369226	0.063	0.012	0.023776075	KO	Lta	0.051
Acss2	9.73385E-07	1.169813842	0.067	0.013	0.030226526	KO	Acss2	0.054
Mfsd2a	9.98218E-07	1.253144737	0.055	0.009	0.030997662	KO	Mfsd2a	0.046
1700020L24Ri	1.02642E-06	0.968160198	0.046	0.006	0.031873418	KO	1700020L24Ri	0.04
L2hgdh	1.05229E-06	0.916998995	0.046	0.006	0.032676809	KO	L2hgdh	0.04
Tedc2	1.11381E-06	0.720577327	0.055	0.009	0.034587051	KO	Tedc2	0.046
Egr3	1.67717E-06	1.617831426	0.042	0.005	0.052081233	KO	Egr3	0.037
Gm20939	1.6947E-06	1.213642712	0.042	0.005	0.052625606	KO	Gm20939	0.037
Macrodl	1.74836E-06	0.760814804	0.042	0.005	0.054291734	KO	Macrodl	0.037
Naa25	1.78797E-06	0.715199803	0.105	0.032	0.055521707	KO	Naa25	0.073
Tnfsf8	1.84759E-06	1.354170778	0.101	0.03	0.057373197	KO	Tnfsf8	0.071
Smug1	2.22016E-06	1.146389883	0.067	0.014	0.068942778	KO	Smug1	0.053
Mcoln2	2.63286E-06	0.962887873	0.038	0.004	0.081758141	KO	Mcoln2	0.034
Pus7l	2.64733E-06	1.186350623	0.038	0.004	0.082207585	KO	Pus7l	0.034
Samd11	2.66188E-06	2.116084758	0.038	0.004	0.082659401	KO	Samd11	0.034
Zfp324	2.69121E-06	0.981796391	0.038	0.004	0.083570191	KO	Zfp324	0.034
Gm26890	2.70599E-06	0.744433568	0.038	0.004	0.08402919	KO	Gm26890	0.034
Hgh1	2.75203E-06	0.776852528	0.071	0.016	0.085458902	KO	Hgh1	0.055
Esrp1	2.85911E-06	2.35926077	0.021	0	0.088784094	KO	Esrp1	0.021
Gm47997	2.85911E-06	1.712342752	0.021	0	0.088784094	KO	Gm47997	0.021
Trim6	2.85911E-06	1.701925036	0.021	0	0.088784094	KO	Trim6	0.021
Eepd1	2.85911E-06	1.542724244	0.021	0	0.088784094	KO	Eepd1	0.021
Zfp383	2.85911E-06	1.527386175	0.021	0	0.088784094	KO	Zfp383	0.021
Adora2b	2.85911E-06	1.491984029	0.021	0	0.088784094	KO	Adora2b	0.021
Gm30918	2.85911E-06	1.437309633	0.021	0	0.088784094	KO	Gm30918	0.021
Gm49032	2.85911E-06	1.343728925	0.021	0	0.088784094	KO	Gm49032	0.021
Erfe	2.85911E-06	1.024725103	0.021	0	0.088784094	KO	Erfe	0.021
AC168090.1	2.85911E-06	0.950584604	0.021	0	0.088784094	KO	AC168090.1	0.021

Gm21994	2.85911E-06	0.916665197	0.021	0	0.088784094	KO	Gm21994	0.021
Vav2	3.06067E-06	1.409898864	0.055	0.01	0.095042993	KO	Vav2	0.045
Mx1	3.08595E-06	0.73036597	0.055	0.01	0.095827931	KO	Mx1	0.045
Zfp873	3.41165E-06	1.088807958	0.046	0.007	0.105941951	KO	Zfp873	0.039
Axin2	3.42745E-06	1.325500303	0.046	0.007	0.10643246	KO	Axin2	0.039
Sirt4	3.5728E-06	0.969734026	0.046	0.007	0.110946132	KO	Sirt4	0.039
Hist1h2af	3.62255E-06	0.912660268	0.046	0.007	0.112491059	KO	Hist1h2af	0.039
Apobec2	3.65609E-06	0.983454799	0.046	0.007	0.113532446	KO	Apobec2	0.039
F2rl2	3.66667E-06	2.182611514	0.034	0.003	0.113861124	KO	F2rl2	0.031
1700056N10R	3.79815E-06	1.732889696	0.034	0.003	0.117943907	KO	1700056N10R	0.031
Rsad1	3.8883E-06	1.279710302	0.034	0.003	0.120743332	KO	Rsad1	0.031
Gm15326	3.93414E-06	1.280445458	0.034	0.003	0.122166819	KO	Gm15326	0.031
Lrrc9	3.93414E-06	0.95143454	0.034	0.003	0.122166819	KO	Lrrc9	0.031
Zc2hc1a	3.95725E-06	1.013999963	0.034	0.003	0.122884581	KO	Zc2hc1a	0.031
Gm20517	3.9805E-06	1.143900285	0.034	0.003	0.123606383	KO	Gm20517	0.031
Fam171b	3.9805E-06	0.718665186	0.034	0.003	0.123606383	KO	Fam171b	0.031
Ccr3	4.73188E-06	2.105930509	0.029	0.002	0.146939093	KO	Ccr3	0.027
Kyat1	4.85495E-06	1.865865277	0.029	0.002	0.150760611	KO	Kyat1	0.027
Zbtb12	4.91928E-06	1.311879326	0.025	0.001	0.152758276	KO	Zbtb12	0.024
Tmprss3	4.94925E-06	1.585699893	0.029	0.002	0.153689027	KO	Tmprss3	0.027
Cyp11a1	4.95514E-06	2.74889045	0.025	0.001	0.153871859	KO	Cyp11a1	0.024
Gm3604	4.95514E-06	1.715412876	0.025	0.001	0.153871859	KO	Gm3604	0.024
Lig4	4.98107E-06	1.828999731	0.029	0.002	0.154677215	KO	Lig4	0.027
Gm14410	4.99125E-06	1.392276309	0.025	0.001	0.154993213	KO	Gm14410	0.024
1700021A07R	4.99125E-06	1.351561962	0.025	0.001	0.154993213	KO	1700021A07R	0.024
Lhpp	4.99125E-06	1.248013242	0.025	0.001	0.154993213	KO	Lhpp	0.024
Gm14698	4.99125E-06	1.12373009	0.025	0.001	0.154993213	KO	Gm14698	0.024
Gm29394	4.99125E-06	1.113144076	0.025	0.001	0.154993213	KO	Gm29394	0.024
Uprt	4.99125E-06	1.052386201	0.025	0.001	0.154993213	KO	Uprt	0.024
P2ry10b	4.99125E-06	1.017504186	0.025	0.001	0.154993213	KO	P2ry10b	0.024
Amdhd1	4.99125E-06	0.887373168	0.025	0.001	0.154993213	KO	Amdhd1	0.024
4930590J08Ri	4.99125E-06	0.776505419	0.025	0.001	0.154993213	KO	4930590J08Ri	0.024
B630019A10R	4.99125E-06	0.751415219	0.025	0.001	0.154993213	KO	B630019A10R	0.024
Tex15	5.01309E-06	1.436631068	0.029	0.002	0.155671485	KO	Tex15	0.027
Ppm1n	5.01309E-06	1.390591539	0.029	0.002	0.155671485	KO	Ppm1n	0.027
Tsacc	5.01309E-06	1.347011266	0.029	0.002	0.155671485	KO	Tsacc	0.027
Pank1	5.01309E-06	1.250912917	0.029	0.002	0.155671485	KO	Pank1	0.027
Efcab7	5.01309E-06	0.823874867	0.029	0.002	0.155671485	KO	Efcab7	0.027
C130013H08R	5.04531E-06	1.362180765	0.029	0.002	0.156671875	KO	C130013H08R	0.027
Heatr9	5.04531E-06	1.188736008	0.029	0.002	0.156671875	KO	Heatr9	0.027
Vsig10l	5.04531E-06	1.120138552	0.029	0.002	0.156671875	KO	Vsig10l	0.027
Actn2	5.04531E-06	0.789472198	0.029	0.002	0.156671875	KO	Actn2	0.027
Gm47769	5.04531E-06	0.764810035	0.029	0.002	0.156671875	KO	Gm47769	0.027
Sepsecs	5.17816E-06	0.967860223	0.067	0.015	0.160797357	KO	Sepsecs	0.052
Calclrl	5.39514E-06	0.821847666	0.067	0.015	0.167535359	KO	Calclrl	0.052
Znrf3	5.40346E-06	2.430388415	0.05	0.009	0.16779363	KO	Znrf3	0.041
Coil	5.70242E-06	1.459444244	0.071	0.017	0.177077211	KO	Coil	0.054
Ccdc73	5.73033E-06	0.98923406	0.05	0.009	0.177943898	KO	Ccdc73	0.041
Tlr12	6.44451E-06	1.337835561	0.042	0.006	0.200121293	KO	Tlr12	0.036
Mex3d	6.59987E-06	0.951218387	0.042	0.006	0.204945613	KO	Mex3d	0.036
Atat1	7.7746E-06	0.758376095	0.055	0.011	0.241424539	KO	Atat1	0.044

Zfp428	7.83503E-06	0.76050752	0.055	0.011	0.243301275 KO	Zfp428	0.044
Arsk	1.09125E-05	0.947073232	0.046	0.008	0.338867016 KO	Arsk	0.038
Rasl11b	1.09628E-05	1.316570951	0.038	0.005	0.340427512 KO	Rasl11b	0.033
Zfp60	1.09628E-05	1.002859341	0.038	0.005	0.340427512 KO	Zfp60	0.033
Galnt9	1.10724E-05	1.432800374	0.038	0.005	0.343829885 KO	Galnt9	0.033
Rsl1	1.10724E-05	0.847429063	0.038	0.005	0.343829885 KO	Rsl1	0.033
1700066B19R	1.11275E-05	1.10966667	0.038	0.005	0.345543222 KO	1700066B19R	0.033
Mrgpre	1.12946E-05	1.119974851	0.038	0.005	0.350732276 KO	Mrgpre	0.033
A130010J15Ri	1.12946E-05	0.815716044	0.038	0.005	0.350732276 KO	A130010J15Ri	0.033
Angptl2	1.39015E-05	1.729099824	0.05	0.01	0.431684621 KO	Angptl2	0.04
Ccdc166	1.76273E-05	0.696393087	0.055	0.012	0.547379817 KO	Ccdc166	0.043
Prdm9	1.81863E-05	1.735929864	0.034	0.004	0.564739045 KO	Prdm9	0.03
Usp18	1.8378E-05	2.010481735	0.034	0.004	0.570691182 KO	Usp18	0.03
Ficd	1.86203E-05	0.796722308	0.034	0.004	0.578214844 KO	Ficd	0.03
3110001I22Ril	1.86691E-05	0.794016149	0.034	0.004	0.579731561 KO	3110001I22Ril	0.03
Cd40lg	1.87671E-05	1.210139327	0.034	0.004	0.582775217 KO	Cd40lg	0.03
Cdh17	1.87671E-05	1.151982388	0.034	0.004	0.582775217 KO	Cdh17	0.03
Mgat3	1.89646E-05	1.272465404	0.034	0.004	0.588908253 KO	Mgat3	0.03
Tctn1	1.90641E-05	0.723783328	0.034	0.004	0.591997776 KO	Tctn1	0.03
Pkdcc	1.91641E-05	0.835460412	0.034	0.004	0.595102734 KO	Pkdcc	0.03
Tnfrsf8	1.96258E-05	1.044448903	0.067	0.017	0.609439875 KO	Tnfrsf8	0.05
Tnks1bp1	2.00377E-05	0.870670452	0.042	0.007	0.62223213 KO	Tnks1bp1	0.035
Slx1b	2.04826E-05	1.087094376	0.042	0.007	0.636045916 KO	Slx1b	0.035
Tctn3	2.06631E-05	1.44050922	0.042	0.007	0.64165278 KO	Tctn3	0.035
Dph7	2.20205E-05	0.743725566	0.071	0.019	0.683802344 KO	Dph7	0.052
Sirt5	2.85317E-05	1.49772147	0.046	0.009	0.885995185 KO	Sirt5	0.037
5830416I19Ril	2.85549E-05	2.702034066	0.017	0	0.886714755 KO	5830416I19Ril	0.017
Gm16230	2.85549E-05	2.246853603	0.017	0	0.886714755 KO	Gm16230	0.017
Lsmem1	2.85549E-05	1.936542127	0.017	0	0.886714755 KO	Lsmem1	0.017
Tmem220	2.85549E-05	1.870859667	0.017	0	0.886714755 KO	Tmem220	0.017
Gm45351	2.85549E-05	1.855293919	0.017	0	0.886714755 KO	Gm45351	0.017
Actbl2	2.85549E-05	1.841538205	0.017	0	0.886714755 KO	Actbl2	0.017
Trbv20	2.85549E-05	1.820720235	0.017	0	0.886714755 KO	Trbv20	0.017
Tprg	2.85549E-05	1.72705727	0.017	0	0.886714755 KO	Tprg	0.017
Gm13522	2.85549E-05	1.602888375	0.017	0	0.886714755 KO	Gm13522	0.017
Gm7334	2.85549E-05	1.552725649	0.017	0	0.886714755 KO	Gm7334	0.017
Gm26756	2.85549E-05	1.490258978	0.017	0	0.886714755 KO	Gm26756	0.017
Lrrc75aos2	2.85549E-05	1.489729968	0.017	0	0.886714755 KO	Lrrc75aos2	0.017
Kcnf1	2.85549E-05	1.461135957	0.017	0	0.886714755 KO	Kcnf1	0.017
A530040E14R	2.85549E-05	1.455588064	0.017	0	0.886714755 KO	A530040E14R	0.017
Rpl13a-ps1	2.85549E-05	1.452621908	0.017	0	0.886714755 KO	Rpl13a-ps1	0.017
Ehbp1	2.85549E-05	1.390609953	0.017	0	0.886714755 KO	Ehbp1	0.017
Gm11767	2.85549E-05	1.294326255	0.017	0	0.886714755 KO	Gm11767	0.017
Prss36	2.85549E-05	1.224065125	0.017	0	0.886714755 KO	Prss36	0.017
CT030713.2	2.85549E-05	1.223141458	0.017	0	0.886714755 KO	CT030713.2	0.017
Arhgap27os1	2.85549E-05	1.203780953	0.017	0	0.886714755 KO	Arhgap27os1	0.017
Zfp459	2.85549E-05	1.196786447	0.017	0	0.886714755 KO	Zfp459	0.017
Chl1	2.85549E-05	1.182744251	0.017	0	0.886714755 KO	Chl1	0.017
Rbm3os	2.85549E-05	1.158372696	0.017	0	0.886714755 KO	Rbm3os	0.017
Gm16894	2.85549E-05	1.128272336	0.017	0	0.886714755 KO	Gm16894	0.017
Tcrg-C3	2.85549E-05	1.099845144	0.017	0	0.886714755 KO	Tcrg-C3	0.017

9230111E07Ri	2.85549E-05	1.090960343	0.017	0	0.886714755	KO	9230111E07Ri	0.017
Nup210l	2.85549E-05	1.044636814	0.017	0	0.886714755	KO	Nup210l	0.017
Afp	2.85549E-05	1.018454752	0.017	0	0.886714755	KO	Afp	0.017
Slc16a7	2.85549E-05	0.744894021	0.017	0	0.886714755	KO	Slc16a7	0.017
Nicn1	2.89187E-05	1.292315318	0.029	0.003	0.898011078	KO	Nicn1	0.026
Vdr	2.9245E-05	0.895503951	0.029	0.003	0.908144653	KO	Vdr	0.026
Pkd2	2.94095E-05	2.055751532	0.029	0.003	0.913252109	KO	Pkd2	0.026
Trim45	2.95748E-05	1.097076025	0.029	0.003	0.918386861	KO	Trim45	0.026
5031425F14Ri	2.95748E-05	0.75928099	0.029	0.003	0.918386861	KO	5031425F14Ri	0.026
Gm14419	2.97411E-05	0.925981662	0.029	0.003	0.923549046	KO	Gm14419	0.026
Gm48529	2.99082E-05	0.773533868	0.029	0.003	0.928738801	KO	Gm48529	0.026
Mrm2	3.80782E-05	0.715621204	0.038	0.006	1	KO	Mrm2	0.032
Mettl25	3.84246E-05	0.832590464	0.038	0.006	1	KO	Mettl25	0.032
Rpusd1	4.02497E-05	0.777598731	0.067	0.018	1	KO	Rpusd1	0.049
Dhdh	4.03896E-05	1.016982743	0.025	0.002	1	KO	Dhdh	0.023
Spsb1	4.08906E-05	2.14626955	0.025	0.002	1	KO	Spsb1	0.023
Mansc1	4.13974E-05	1.191188038	0.025	0.002	1	KO	Mansc1	0.023
Kank3	4.13974E-05	1.109474679	0.025	0.002	1	KO	Kank3	0.023
Cyb5rl	4.13974E-05	0.812261899	0.025	0.002	1	KO	Cyb5rl	0.023
Gm4673	4.14163E-05	0.962007557	0.055	0.013	1	KO	Gm4673	0.042
Lama5	4.16531E-05	0.713728851	0.025	0.002	1	KO	Lama5	0.023
Ifi202b	4.50973E-05	2.209311793	0.021	0.001	1	KO	Ifi202b	0.02
AF529169	4.54174E-05	1.149017621	0.021	0.001	1	KO	AF529169	0.02
Afmid	4.54174E-05	1.080476498	0.021	0.001	1	KO	Afmid	0.02
Ccl24	4.57396E-05	1.910206889	0.021	0.001	1	KO	Ccl24	0.02
Tmem91	4.57396E-05	1.843303885	0.021	0.001	1	KO	Tmem91	0.02
Gm26698	4.57396E-05	1.788488111	0.021	0.001	1	KO	Gm26698	0.02
Cdh23	4.57396E-05	1.530866521	0.021	0.001	1	KO	Cdh23	0.02
A530010L16Ri	4.57396E-05	1.522004758	0.021	0.001	1	KO	A530010L16Ri	0.02
Faxc	4.57396E-05	1.20013379	0.021	0.001	1	KO	Faxc	0.02
2510017J16Ri	4.6064E-05	1.809347773	0.021	0.001	1	KO	2510017J16Ri	0.02
Kif19a	4.6064E-05	1.520245082	0.021	0.001	1	KO	Kif19a	0.02
Capn5	4.6064E-05	1.427496597	0.021	0.001	1	KO	Capn5	0.02
2410004P03R	4.6064E-05	1.388538181	0.021	0.001	1	KO	2410004P03R	0.02
Gm31763	4.6064E-05	1.207101874	0.021	0.001	1	KO	Gm31763	0.02
Stc2	4.6064E-05	1.190932595	0.021	0.001	1	KO	Stc2	0.02
Megf11	4.6064E-05	1.131499493	0.021	0.001	1	KO	Megf11	0.02
Susd2	4.6064E-05	1.017678027	0.021	0.001	1	KO	Susd2	0.02
Rassf6	4.6064E-05	0.997214698	0.021	0.001	1	KO	Rassf6	0.02
Sv2a	4.6064E-05	0.937623398	0.021	0.001	1	KO	Sv2a	0.02
Pkn3	4.6064E-05	0.847820523	0.021	0.001	1	KO	Pkn3	0.02
Gnrh1	4.6064E-05	0.810012944	0.021	0.001	1	KO	Gnrh1	0.02
Sugct	4.6064E-05	0.753592512	0.021	0.001	1	KO	Sugct	0.02
Klhl30	4.6064E-05	0.706465488	0.021	0.001	1	KO	Klhl30	0.02
Tbc1d8b	5.70216E-05	1.677239975	0.042	0.008	1	KO	Tbc1d8b	0.034
Plxdc1	5.70216E-05	0.850735377	0.042	0.008	1	KO	Plxdc1	0.034
Wfs1	7.00393E-05	0.900352832	0.034	0.005	1	KO	Wfs1	0.029
Ckm	7.17065E-05	0.719938233	0.034	0.005	1	KO	Ckm	0.029
Zfp599	0.000106678	0.986166291	0.038	0.007	1	KO	Zfp599	0.031
Ankrd13d	0.000108015	1.691393296	0.038	0.007	1	KO	Ankrd13d	0.031
Fbxl4	0.000111195	1.107302034	0.038	0.007	1	KO	Fbxl4	0.031

Nat8f4	0.000123791	0.728763386	0.029	0.004	1 KO	Nat8f4	0.025
Krtcap3	0.000153172	1.037195412	0.046	0.011	1 KO	Krtcap3	0.035
Ccdc171	0.000205616	1.304897026	0.025	0.003	1 KO	Ccdc171	0.022
Nutf2	0.000208215	0.742719253	0.034	0.006	1 KO	Nutf2	0.028
Pcna-ps2	0.000208917	1.039356749	0.025	0.003	1 KO	Pcna-ps2	0.022
BC049715	0.000210029	1.065078798	0.025	0.003	1 KO	BC049715	0.022
Ernm	0.000210029	1.02100669	0.025	0.003	1 KO	Ernm	0.022
Mtrf1	0.000210895	0.97627844	0.034	0.006	1 KO	Mtrf1	0.028
Gm15247	0.000211146	1.061155172	0.025	0.003	1 KO	Gm15247	0.022
Mycl	0.000211146	1.019873255	0.025	0.003	1 KO	Mycl	0.022
1700019L13Ri	0.000213397	0.797388013	0.025	0.003	1 KO	1700019L13Ri	0.022
Zc4h2	0.000213397	0.761273365	0.025	0.003	1 KO	Zc4h2	0.022
Slc5a6	0.000213397	0.758051433	0.025	0.003	1 KO	Slc5a6	0.022
Gstk1	0.000213397	0.704858074	0.025	0.003	1 KO	Gstk1	0.022
Stx3	0.00021453	1.01851552	0.025	0.003	1 KO	Stx3	0.022
2700081O15R	0.00021453	0.942537599	0.025	0.003	1 KO	2700081O15R	0.022
Rbm47	0.000265769	0.875863498	0.055	0.015	1 KO	Rbm47	0.04
Zfp341	0.000275266	0.828945991	0.038	0.008	1 KO	Zfp341	0.03
Rbm12b1	0.000279489	1.384437137	0.038	0.008	1 KO	Rbm12b1	0.03
Selenoo	0.000289322	1.134722709	0.055	0.015	1 KO	Selenoo	0.04
AC124490.1	0.000291946	1.957888441	0.013	0	1 KO	AC124490.1	0.013
Ptch2	0.000291946	1.743199732	0.013	0	1 KO	Ptch2	0.013
Gm48089	0.000291946	1.672497241	0.013	0	1 KO	Gm48089	0.013
Slc7a2	0.000291946	1.578061238	0.013	0	1 KO	Slc7a2	0.013
Slc30a3	0.000291946	1.570208155	0.013	0	1 KO	Slc30a3	0.013
Trav7-4	0.000291946	1.499301314	0.013	0	1 KO	Trav7-4	0.013
Derl3	0.000291946	1.473897899	0.013	0	1 KO	Derl3	0.013
2900089D17R	0.000291946	1.446026351	0.013	0	1 KO	2900089D17R	0.013
Gm6634	0.000291946	1.371181721	0.013	0	1 KO	Gm6634	0.013
Gm36839	0.000291946	1.359559156	0.013	0	1 KO	Gm36839	0.013
Apoc1	0.000291946	1.293709637	0.013	0	1 KO	Apoc1	0.013
Gm614	0.000291946	1.213795244	0.013	0	1 KO	Gm614	0.013
Gm9947	0.000291946	1.205752838	0.013	0	1 KO	Gm9947	0.013
Actrt3	0.000291946	1.12135346	0.013	0	1 KO	Actrt3	0.013
Gm36198	0.000291946	1.0690527	0.013	0	1 KO	Gm36198	0.013
Trbv13-2	0.000291946	1.042983131	0.013	0	1 KO	Trbv13-2	0.013
Gm40304	0.000291946	1.033937989	0.013	0	1 KO	Gm40304	0.013
Cntfr	0.000291946	1.021698075	0.013	0	1 KO	Cntfr	0.013
Hc	0.000291946	1.019023922	0.013	0	1 KO	Hc	0.013
Gm47802	0.000291946	1.016786799	0.013	0	1 KO	Gm47802	0.013
C78859	0.000291946	1.002884123	0.013	0	1 KO	C78859	0.013
Unc5a	0.000291946	0.998658829	0.013	0	1 KO	Unc5a	0.013
Antxr1	0.000291946	0.938436661	0.013	0	1 KO	Antxr1	0.013
Tub	0.000291946	0.934030538	0.013	0	1 KO	Tub	0.013
Sox5	0.000291946	0.914222941	0.013	0	1 KO	Sox5	0.013
Colq	0.000291946	0.902551728	0.013	0	1 KO	Colq	0.013
Slc2a12	0.000291946	0.896357852	0.013	0	1 KO	Slc2a12	0.013
Fam131a	0.000291946	0.896042926	0.013	0	1 KO	Fam131a	0.013
Gm12185	0.000291946	0.89322257	0.013	0	1 KO	Gm12185	0.013
Zfp972	0.000291946	0.882514707	0.013	0	1 KO	Zfp972	0.013
Gm30214	0.000291946	0.85853208	0.013	0	1 KO	Gm30214	0.013

Hoxb6	0.000291946	0.846112537	0.013	0	1 KO	Hoxb6	0.013
Cage1	0.000291946	0.836704338	0.013	0	1 KO	Cage1	0.013
D430019H16F	0.000291946	0.831850287	0.013	0	1 KO	D430019H16F	0.013
Mmp10	0.000291946	0.787535283	0.013	0	1 KO	Mmp10	0.013
Slc6a11	0.000291946	0.768859871	0.013	0	1 KO	Slc6a11	0.013
2700016F22Ri	0.000291946	0.759900146	0.013	0	1 KO	2700016F22Ri	0.013
Pip5k1b	0.000291946	0.748278118	0.013	0	1 KO	Pip5k1b	0.013
Gm14391	0.000291946	0.73599013	0.013	0	1 KO	Gm14391	0.013
Nutf2-ps1	0.000291946	0.735767491	0.013	0	1 KO	Nutf2-ps1	0.013
Gm7125	0.000291946	0.724834207	0.013	0	1 KO	Gm7125	0.013
Gm2245	0.000291946	0.716721786	0.013	0	1 KO	Gm2245	0.013
Il6	0.000291946	0.698395336	0.013	0	1 KO	Il6	0.013
Gm49207	0.000291946	0.696292317	0.013	0	1 KO	Gm49207	0.013
Cpm	0.000315642	1.293182546	0.042	0.01	1 KO	Cpm	0.032
Il23a	0.000324376	0.98707266	0.021	0.002	1 KO	Il23a	0.019
Gm9803	0.000326279	1.207937718	0.021	0.002	1 KO	Gm9803	0.019
Gm14508	0.000328192	1.958078356	0.021	0.002	1 KO	Gm14508	0.019
Zbed5	0.000328192	1.170626918	0.021	0.002	1 KO	Zbed5	0.019
Gm6225	0.000330116	1.152961339	0.021	0.002	1 KO	Gm6225	0.019
Slc9a7	0.000330116	0.943101212	0.021	0.002	1 KO	Slc9a7	0.019
Gm13546	0.000330116	0.883892362	0.021	0.002	1 KO	Gm13546	0.019
Nphp4	0.000330116	0.706209054	0.021	0.002	1 KO	Nphp4	0.019
Smim24	0.00033205	0.994717125	0.021	0.002	1 KO	Smim24	0.019
Gm26610	0.00033205	0.833127351	0.021	0.002	1 KO	Gm26610	0.019
Myo3b	0.00033205	0.792288651	0.021	0.002	1 KO	Myo3b	0.019
Slc6a20b	0.00033205	0.751961286	0.021	0.002	1 KO	Slc6a20b	0.019
Actr3b	0.000407908	0.822064798	0.029	0.005	1 KO	Actr3b	0.024
Gdpgp1	0.000407908	0.693451987	0.029	0.005	1 KO	Gdpgp1	0.024
Ica1l	0.000411521	1.021106802	0.029	0.005	1 KO	Ica1l	0.024
Atf7ip2	0.000413339	0.700535274	0.029	0.005	1 KO	Atf7ip2	0.024
Gm34093	0.000415404	1.750927622	0.017	0.001	1 KO	Gm34093	0.016
Nos1	0.000415404	1.65357066	0.017	0.001	1 KO	Nos1	0.016
Lim2	0.000415404	1.158941324	0.017	0.001	1 KO	Lim2	0.016
Star	0.000415404	0.998759098	0.017	0.001	1 KO	Star	0.016
Dsp	0.000418241	2.881959139	0.017	0.001	1 KO	Dsp	0.016
Hcn2	0.000418241	2.363431761	0.017	0.001	1 KO	Hcn2	0.016
Pde10a	0.000418241	1.218295448	0.017	0.001	1 KO	Pde10a	0.016
Mpzl2	0.000421095	1.541378096	0.017	0.001	1 KO	Mpzl2	0.016
Fbxl22	0.000421095	1.227423831	0.017	0.001	1 KO	Fbxl22	0.016
Gm6712	0.000421095	1.141457718	0.017	0.001	1 KO	Gm6712	0.016
Gm43057	0.000421095	1.130702556	0.017	0.001	1 KO	Gm43057	0.016
Gm14718	0.000421095	1.128686851	0.017	0.001	1 KO	Gm14718	0.016
Mogat1	0.000421095	1.098701632	0.017	0.001	1 KO	Mogat1	0.016
Cnih3	0.000421095	1.086807934	0.017	0.001	1 KO	Cnih3	0.016
Gm27029	0.000421095	1.083649725	0.017	0.001	1 KO	Gm27029	0.016
Pcyt1b	0.000421095	1.022979752	0.017	0.001	1 KO	Pcyt1b	0.016
Tssk4	0.000421095	0.999355802	0.017	0.001	1 KO	Tssk4	0.016
3110070M22F	0.000421095	0.961171849	0.017	0.001	1 KO	3110070M22F	0.016
Gm10131	0.000421095	0.93839558	0.017	0.001	1 KO	Gm10131	0.016
Sarm1	0.000421095	0.932396994	0.017	0.001	1 KO	Sarm1	0.016
4930535E02Ri	0.000421095	0.924147833	0.017	0.001	1 KO	4930535E02Ri	0.016

Fndc10	0.000421095	0.900022288	0.017	0.001	1 KO	Fndc10	0.016
Gm10501	0.000421095	0.886903154	0.017	0.001	1 KO	Gm10501	0.016
Xylb	0.000421095	0.859973268	0.017	0.001	1 KO	Xylb	0.016
Ccno	0.000421095	0.859921899	0.017	0.001	1 KO	Ccno	0.016
C230037L18Ri	0.000421095	0.856713883	0.017	0.001	1 KO	C230037L18Ri	0.016
Gm15265	0.000421095	0.819141649	0.017	0.001	1 KO	Gm15265	0.016
Disc1	0.000421095	0.791347475	0.017	0.001	1 KO	Disc1	0.016
Gm28874	0.000421095	0.704411353	0.017	0.001	1 KO	Gm28874	0.016
Pros1	0.000548029	0.896332374	0.034	0.007	1 KO	Pros1	0.027
Gm45871	0.000550155	0.915954941	0.034	0.007	1 KO	Gm45871	0.027
Klf8	0.000556579	1.015778545	0.034	0.007	1 KO	Klf8	0.027
Olfm1	0.000583071	1.057395369	0.05	0.014	1 KO	Olfm1	0.036
Il18bp	0.000642736	1.253962989	0.038	0.009	1 KO	Il18bp	0.029
Cuedc1	0.000660958	1.075509101	0.042	0.011	1 KO	Cuedc1	0.031
Camk2n2	0.000766218	0.809885278	0.025	0.004	1 KO	Camk2n2	0.021
Hsf4	0.000769768	1.33174407	0.025	0.004	1 KO	Hsf4	0.021
Msc	0.000773334	1.007952058	0.025	0.004	1 KO	Msc	0.021
Vipr2	0.000776914	0.765617955	0.025	0.004	1 KO	Vipr2	0.021
Nudt15	0.001073857	0.848438387	0.029	0.006	1 KO	Nudt15	0.023
Slc26a11	0.001104013	0.987388615	0.029	0.006	1 KO	Slc26a11	0.023
Dglucy	0.001291914	1.242511477	0.038	0.01	1 KO	Dglucy	0.028
Cxcl3	0.001348654	1.838230586	0.055	0.018	1 KO	Cxcl3	0.037
Zfp623	0.001424898	1.940132607	0.021	0.003	1 KO	Zfp623	0.018
Gm49180	0.001424898	1.590748712	0.021	0.003	1 KO	Gm49180	0.018
Anpep	0.00143194	1.003212124	0.021	0.003	1 KO	Anpep	0.018
Ino80dos	0.00143194	0.960350249	0.021	0.003	1 KO	Ino80dos	0.018
1110035H17R	0.00143194	0.854827713	0.021	0.003	1 KO	1110035H17R	0.018
Angel1	0.001439014	0.844750484	0.021	0.003	1 KO	Angel1	0.018
Lipt1	0.001439014	0.777600439	0.021	0.003	1 KO	Lipt1	0.018
Aste1	0.001759683	0.963520505	0.05	0.016	1 KO	Aste1	0.034
Gm8817	0.002188577	0.921831979	0.025	0.005	1 KO	Gm8817	0.02
Gm47438	0.002206444	0.877192507	0.025	0.005	1 KO	Gm47438	0.02
Nudt10	0.002421031	1.326115878	0.017	0.002	1 KO	Nudt10	0.015
Gfod2	0.002460906	0.995980173	0.017	0.002	1 KO	Gfod2	0.015
Crabp2	0.00247433	2.354917502	0.017	0.002	1 KO	Crabp2	0.015
Mtus1	0.00247433	1.945445006	0.017	0.002	1 KO	Mtus1	0.015
Bahcc1	0.002487822	2.532520892	0.017	0.002	1 KO	Bahcc1	0.015
Gm26884	0.002487822	1.349387904	0.017	0.002	1 KO	Gm26884	0.015
Rgs9	0.002487822	1.177126775	0.017	0.002	1 KO	Rgs9	0.015
Gm26720	0.002487822	1.141613598	0.017	0.002	1 KO	Gm26720	0.015
4930518I15Ril	0.002487822	1.077505877	0.017	0.002	1 KO	4930518I15Ril	0.015
Jam2	0.002501381	1.059639523	0.017	0.002	1 KO	Jam2	0.015
Vash1	0.002501381	0.970429943	0.017	0.002	1 KO	Vash1	0.015
Gm15492	0.002501381	0.766963183	0.017	0.002	1 KO	Gm15492	0.015
Gm15445	0.002515008	0.941925282	0.017	0.002	1 KO	Gm15445	0.015
Ctdspl	0.002515008	0.864302118	0.017	0.002	1 KO	Ctdspl	0.015
Gm14966	0.002515008	0.857737836	0.017	0.002	1 KO	Gm14966	0.015
4933406I18Ril	0.002515008	0.823260593	0.017	0.002	1 KO	4933406I18Ril	0.015
Adora3	0.002515008	0.816186029	0.017	0.002	1 KO	Adora3	0.015
Fam83g	0.002515008	0.713306234	0.017	0.002	1 KO	Fam83g	0.015
Mast4	0.002615851	1.30533544	0.034	0.009	1 KO	Mast4	0.025

Acot1	0.003710039	1.124073449	0.013	0.001	1 KO	Acot1	0.012
Gm26541	0.003710039	1.106426605	0.013	0.001	1 KO	Gm26541	0.012
Hus1b	0.003733394	1.511682618	0.013	0.001	1 KO	Hus1b	0.012
Aldh4a1	0.003757981	2.555374083	0.013	0.001	1 KO	Aldh4a1	0.012
Tchh	0.003757981	2.384720175	0.013	0.001	1 KO	Tchh	0.012
St8sia6	0.003757981	1.272906016	0.013	0.001	1 KO	St8sia6	0.012
Gm28043	0.003757981	1.25168976	0.013	0.001	1 KO	Gm28043	0.012
Fam212b	0.003757981	1.099396296	0.013	0.001	1 KO	Fam212b	0.012
Ccdc173	0.003757981	0.961804844	0.013	0.001	1 KO	Ccdc173	0.012
Fcrl1	0.003757981	0.917516518	0.013	0.001	1 KO	Fcrl1	0.012
Siah3	0.003757981	0.797097671	0.013	0.001	1 KO	Siah3	0.012
Pou2af1	0.003782163	1.193389781	0.013	0.001	1 KO	Pou2af1	0.012
Oas2	0.003782163	1.15392568	0.013	0.001	1 KO	Oas2	0.012
Tnfaip6	0.003782163	1.053250419	0.013	0.001	1 KO	Tnfaip6	0.012
Gm26664	0.003782163	1.012860136	0.013	0.001	1 KO	Gm26664	0.012
Klrc3	0.003782163	0.990526525	0.013	0.001	1 KO	Klrc3	0.012
Pde4c	0.003782163	0.953331727	0.013	0.001	1 KO	Pde4c	0.012
Col14a1	0.003782163	0.921260205	0.013	0.001	1 KO	Col14a1	0.012
Fbxo41	0.003782163	0.912299359	0.013	0.001	1 KO	Fbxo41	0.012
Pcdhgc5	0.003782163	0.853671331	0.013	0.001	1 KO	Pcdhgc5	0.012
Gm19325	0.003782163	0.823329566	0.013	0.001	1 KO	Gm19325	0.012
Plscr2	0.003782163	0.822982188	0.013	0.001	1 KO	Plscr2	0.012
Gm26764	0.003782163	0.807777042	0.013	0.001	1 KO	Gm26764	0.012
B230208H11R	0.003782163	0.801670538	0.013	0.001	1 KO	B230208H11R	0.012
Wdr78	0.003782163	0.772321956	0.013	0.001	1 KO	Wdr78	0.012
Gm38394	0.003782163	0.76803186	0.013	0.001	1 KO	Gm38394	0.012
Twist1	0.003782163	0.762471794	0.013	0.001	1 KO	Twist1	0.012
4930537H2OR	0.003782163	0.756664031	0.013	0.001	1 KO	4930537H2OR	0.012
Pdzk1	0.003782163	0.745082914	0.013	0.001	1 KO	Pdzk1	0.012
Pi16	0.003782163	0.734853576	0.013	0.001	1 KO	Pi16	0.012
Siglecg	0.003782163	0.69677332	0.013	0.001	1 KO	Siglecg	0.012
Tbc1d9	0.004385179	1.332709625	0.021	0.004	1 KO	Tbc1d9	0.017
Zfp971	0.004385179	0.951162728	0.021	0.004	1 KO	Zfp971	0.017
Car12	0.004385179	0.826408677	0.021	0.004	1 KO	Car12	0.017
Fam129c	0.004403742	1.025850668	0.021	0.004	1 KO	Fam129c	0.017
Popdc2	0.004422376	0.70528869	0.021	0.004	1 KO	Popdc2	0.017
Mrnip	0.004887424	0.854461803	0.034	0.01	1 KO	Mrnip	0.024
Lipo3	0.005049342	1.317080695	0.034	0.01	1 KO	Lipo3	0.024
Wars2	0.005183328	0.729086699	0.025	0.006	1 KO	Wars2	0.019
Gm46430	0.005232875	1.237703459	0.029	0.008	1 KO	Gm46430	0.021
Gm11579	0.005277537	0.870447521	0.025	0.006	1 KO	Gm11579	0.019
Cxcl5	0.008785241	1.05538736	0.017	0.003	1 KO	Cxcl5	0.014
Pard6g	0.00880243	0.927660024	0.034	0.011	1 KO	Pard6g	0.023
Tert	0.008824558	1.630764773	0.017	0.003	1 KO	Tert	0.014
Casc1	0.008824558	1.09680797	0.017	0.003	1 KO	Casc1	0.014
Zfp354c	0.008824558	0.970446468	0.017	0.003	1 KO	Zfp354c	0.014
Trim7	0.008864031	0.903672182	0.017	0.003	1 KO	Trim7	0.014
Slc30a2	0.008864031	0.841878347	0.017	0.003	1 KO	Slc30a2	0.014
Xkr6	0.008864031	0.7769946	0.017	0.003	1 KO	Xkr6	0.014
Rab32	0.009854512	1.033023701	0.029	0.009	1 KO	Rab32	0.02