

id	HR	HR. 95L	HR. 95H	pvalue	km
ACTB	1.2718699	0.9152681	1.7674089	0.1519852	0.0312595
ACTL6A	0.8691436	0.6761292	1.1172577	0.2736946	0.004766
ACTL6B	1.0938502	0.7744779	1.5449223	0.6106025	0.0001933
ACTR2	0.7996453	0.6701251	0.954199	0.0131389	2.84E-05
ACTR3	0.8279181	0.6486421	1.0567435	0.1293459	0.0001309
ACTR3B	0.8054171	0.5593488	1.1597357	0.2447054	0.0396651
ACTR5	1.032035	0.7310785	1.4568835	0.8577341	0.0333712
ACTR6	0.6827597	0.5393849	0.8642452	0.0015081	1.55E-06
ACTR8	0.5854236	0.4547953	0.7535715	3.24E-05	1.71E-06
ADNP	0.7283474	0.5576998	0.9512104	0.0199544	9.80E-05
AEBP2	0.7306409	0.5727072	0.9321274	0.0115503	0.0009023
AHCTF1	0.8225747	0.663097	1.0204075	0.075693	0.0028516
AICDA	1.1595001	0.9697639	1.3863586	0.1045457	0.0250486
AIRE	1.7706672	1.0761633	2.9133705	0.0245203	0.0001189
AKAP1	0.6172778	0.4913309	0.7755096	3.42E-05	5.42E-06
ALKBH1	0.5882948	0.4539022	0.7624786	6.09E-05	6.56E-05
ALKBH3	0.8661267	0.6308079	1.1892297	0.3742499	0.0055741
ANP32A	0.7707751	0.5579726	1.0647372	0.1142369	0.0071561
ANP32B	0.8053013	0.6231343	1.0407229	0.0979433	0.0003676
ANP32E	0.8571433	0.708019	1.0376765	0.1139431	0.0033214
APBB1	0.6370729	0.5347635	0.7589557	4.47E-07	8.91E-10
APEX1	0.6845017	0.5409892	0.8660849	0.0015909	0.00021
APOBEC1	1.03237	0.4859185	2.1933466	0.9339651	8.50E-06
APOBEC2	0.9444694	0.6803765	1.3110717	0.7327901	0.1357898
APOBEC3A	1.1652589	0.9284664	1.462442	0.1869726	0.0078677
APOBEC3B	1.2702138	1.0280799	1.5693752	0.0266502	0.0018216
APOBEC3C	1.12436	0.9723397	1.300148	0.1137636	0.0049712
APOBEC3D	1.3174694	1.093483	1.5873367	0.0037324	0.0004336
APOBEC3F	0.9273392	0.7285501	1.1803689	0.5399929	0.0175831
APOBEC3G	1.1693791	0.9939447	1.3757783	0.059197	0.0357108
ARID1A	0.7771978	0.642768	0.9397424	0.0092851	6.55E-05
ARID1B	0.6711314	0.5406958	0.833033	0.0002983	6.01E-07
ARID2	0.7854154	0.6171772	0.999514	0.0495398	0.0048766
ARID3A	1.3004205	1.0086661	1.6765642	0.0427103	0.0125172
ARID3B	0.8440999	0.6203174	1.1486131	0.2808648	0.0204898
ARID4A	0.7208126	0.5988597	0.8676001	0.0005366	6.72E-05
ARID4B	0.799953	0.6438822	0.9938539	0.0438378	0.000347
ARID5A	1.14233	0.9418095	1.3855431	0.1766301	0.0250451
ARID5B	0.7832939	0.690943	0.8879883	0.0001356	2.27E-08
ARNTL	0.8560328	0.6931507	1.0571902	0.1488759	0.0014771
ARRB1	0.6940639	0.5824545	0.8270598	4.45E-05	2.31E-06
ASCL1	1.3822829	0.9338967	2.0459501	0.105634	0.0020137
ASCL2	1.1932752	0.9647368	1.4759525	0.1033121	0.0103443
ASF1A	0.7564957	0.5907874	0.9686831	0.0269532	0.0001915
ASF1B	1.2711565	1.0424319	1.5500665	0.0177615	3.79E-05
ASH1L	0.7413753	0.6369887	0.8628682	0.0001111	2.22E-06
ASH2L	0.6026318	0.4762581	0.7625383	2.47E-05	1.99E-06
ASXL1	1.0420824	0.7930355	1.3693408	0.7673651	0.3253534
ASXL2	0.6805325	0.5678156	0.8156248	3.10E-05	3.60E-06
ATAD2	1.2399237	0.9903862	1.5523347	0.0606958	0.0305287

ATF2	0.7226323	0.5795841	0.9009866	0.0038971	2.49E-05
ATF7IP	0.8389631	0.6656455	1.0574084	0.1369678	0.0029143
ATM	0.8760672	0.7306262	1.0504601	0.1531532	0.0257563
ATN1	1.0810297	0.8475096	1.3788932	0.5303429	0.1528082
ATR	0.9364974	0.7235214	1.212165	0.618216	0.0710416
ATRX	0.6687265	0.547173	0.8172828	8.45E-05	2.20E-05
ATXN7	0.8207144	0.6554275	1.0276836	0.0850746	0.0070421
ATXN7L3	1.2635482	0.9249444	1.7261081	0.1416291	0.0372721
AURKA	1.5619149	1.2850779	1.8983895	7.47E-06	1.65E-08
AURKB	1.6576906	1.4417559	1.9059664	1.27E-12	3.91E-09
AURKC	1.4709431	1.1306422	1.9136679	0.0040455	2.58E-05
BAHD1	0.617199	0.4928191	0.7729706	2.64E-05	4.23E-07
BANF1	1.8838051	1.3709452	2.5885218	9.39E-05	3.01E-06
BANP	0.7527607	0.5246719	1.0800056	0.123058	0.0125776
BAP1	0.7058375	0.5375908	0.9267394	0.0121547	0.0003036
BARD1	0.9504613	0.7326444	1.2330355	0.7020282	0.0571425
BAZ1A	1.0746453	0.8629753	1.3382335	0.5200742	0.1073966
BAZ1B	0.8022653	0.6502958	0.9897491	0.0397704	0.0007433
BAZ2A	0.8710115	0.7187528	1.0555244	0.1589136	0.0081067
BAZ2B	0.7997506	0.648352	0.9865027	0.0368994	0.0005879
BBX	0.7042825	0.592571	0.8370537	6.94E-05	3.43E-06
BCL10	0.6290642	0.5082001	0.778673	2.06E-05	3.04E-08
BCOR	0.7842488	0.6566829	0.9365952	0.007293	8.52E-05
BCORL1	0.7903472	0.6348401	0.9839465	0.0353143	0.0004944
BMI1	0.6704792	0.5393381	0.8335074	0.0003183	3.75E-05
BRCA1	0.979343	0.7509851	1.2771395	0.8775367	0.0053015
BRCA2	0.8750842	0.6387929	1.1987804	0.4060108	0.0016833
BRCC3	0.7332617	0.5795242	0.9277831	0.0097564	0.001187
BRD1	0.8623873	0.67955	1.0944182	0.2232928	0.0311734
BRD2	0.7736097	0.6360046	0.9409867	0.0102097	0.0008484
BRD3	0.6923693	0.5647547	0.8488203	0.0004049	8.28E-05
BRD4	1.1109158	0.8203378	1.5044217	0.4965754	0.06794
BRD7	0.6464752	0.4751469	0.8795811	0.0054914	0.0013236
BRD8	0.8876471	0.7026561	1.1213414	0.3175511	0.0246673
BRD9	1.6614549	1.1492294	2.4019855	0.0069432	0.0002188
BRDT	0.9899601	0.4619887	2.1213096	0.9792971	4.10E-05
BRMS1	1.079393	0.7391277	1.5763031	0.6925329	0.0278302
BRMS1L	0.5833034	0.4748023	0.716599	2.84E-07	2.29E-08
BRPF1	0.8078327	0.6245198	1.0449528	0.1041399	0.0013298
BRPF3	0.7603267	0.6435163	0.8983404	0.0012834	9.13E-05
BRWD1	0.8714071	0.6758104	1.1236143	0.2885492	0.0233824
BRWD3	0.7521686	0.6118603	0.9246515	0.0068581	0.0006267
BTAF1	1.0395726	0.8607366	1.2555655	0.6869921	0.1072989
BUB1	1.5486342	1.3060941	1.8362138	4.84E-07	3.46E-07
C17orf49	1.6826985	1.2003005	2.3589712	0.0025345	3.46E-05
CBX1	0.7920477	0.6327032	0.9915227	0.0419264	0.0004461
CBX2	1.0364661	0.7974097	1.3471895	0.7889068	0.2988345
CBX3	0.9952762	0.7228017	1.3704653	0.9768552	0.0170019
CBX4	1.3984886	1.0477709	1.8666011	0.0228018	0.0024924
CBX5	0.8073145	0.6565249	0.9927371	0.0424516	0.0001455
CBX6	0.7595575	0.6314835	0.9136068	0.003512	0.000283

CBX7	0.6738089	0.5727928	0.79264	1.90E-06	6.01E-06
CBX8	1.844397	1.3627905	2.4962019	7.35E-05	2.22E-05
CDC6	1.4212163	1.1456704	1.763034	0.0013903	3.85E-05
CDC73	0.6822454	0.573093	0.8121871	1.72E-05	1.33E-06
CDK2	1.2476425	0.951459	1.6360261	0.1095739	0.0349993
CDK3	1.6795129	1.3102033	2.1529204	4.27E-05	2.09E-05
CDK5	1.1903657	0.8753814	1.6186892	0.266468	0.000623
CDK7	0.9064992	0.6806224	1.2073373	0.5019911	0.012028
CDK9	1.2549185	0.8721257	1.8057264	0.2213194	0.0039857
CDYL	0.7019453	0.5576419	0.8835908	0.0025785	2.76E-05
CDYL2	0.7758056	0.6617505	0.9095185	0.0017544	0.0001172
CECR2	1.178857	0.8688244	1.5995222	0.2905876	0.0013419
CHAF1A	0.9342208	0.7197627	1.2125782	0.6090922	0.0436956
CHAF1B	1.2877933	1.0223922	1.6220895	0.031711	0.0013342
CHD1	0.8649079	0.7040749	1.0624801	0.166787	0.0161685
CHD1L	1.1592529	0.9358483	1.4359883	0.1760734	0.0015971
CHD2	0.8498641	0.6856459	1.0534141	0.137553	0.0014464
CHD3	1.0061792	0.8462218	1.1963726	0.9444037	0.0995562
CHD4	0.8234336	0.6516999	1.0404221	0.1035435	0.0035831
CHD5	0.9514154	0.6727675	1.345474	0.7781919	0.0137367
CHD6	0.7430619	0.6021491	0.9169506	0.0056382	2.75E-05
CHD7	0.9546885	0.7380315	1.2349475	0.7240238	0.0073206
CHD8	0.7393503	0.6116984	0.8936411	0.0017912	6.94E-05
CHD9	0.7053096	0.5873208	0.8470015	0.0001857	1.42E-06
CHEK1	1.2075717	0.931193	1.5659797	0.1549217	0.0011719
CHMP1B	0.5915235	0.4786717	0.7309814	1.17E-06	1.37E-08
CHRA1	0.7690517	0.5510562	1.0732853	0.1225647	0.0183713
CHUK	0.6397271	0.5108636	0.8010958	9.93E-05	7.72E-07
CIC	0.8799436	0.7092965	1.0916461	0.2449237	0.0177357
CIT	0.9045158	0.811068	1.0087302	0.0712732	0.0004429
CLNS1A	0.705373	0.5125441	0.9707478	0.0321791	8.11E-05
CLOCK	0.6920137	0.5672695	0.8441895	0.0002833	3.95E-05
CRB2	1.1002928	0.9405644	1.2871465	0.2323645	0.0165091
CREBBP	0.6605185	0.537701	0.8113891	7.78E-05	1.46E-06
CSNK2A1	0.774882	0.5995273	1.0015259	0.0513771	0.003371
CTBP1	1.2164563	0.8125705	1.8210925	0.3412071	0.0190925
CTBP2	0.6085286	0.4922897	0.7522136	4.38E-06	6.68E-08
CTCF	0.6533345	0.5237299	0.8150116	0.0001612	6.87E-07
CTCF1	0.5262715	0.1271546	2.1781489	0.3757354	0.2361313
CTR9	0.6292825	0.513811	0.7707044	7.53E-06	1.86E-08
CUL1	0.7679607	0.5707963	1.0332295	0.0811544	0.0001806
CUL2	0.8097235	0.6193656	1.0585865	0.1226901	8.07E-05
CUL3	0.6756246	0.550678	0.8289212	0.000171	5.02E-06
CUL4A	0.6996319	0.5480262	0.8931777	0.0041497	0.0001705
CUL4B	0.7421807	0.5953969	0.9251513	0.0080037	0.0001749
CUL5	0.6726174	0.55009	0.8224368	0.000111	0.0001385
CXXC1	0.9230126	0.7513927	1.1338311	0.4452979	0.0286085
DAPK3	1.1380697	0.8669188	1.49403	0.3516187	0.0293616
DAXX	0.889139	0.6672808	1.1847608	0.4223698	0.0071841
DBF4	1.5171025	1.1917445	1.9312865	0.0007136	3.02E-05
DBF4B	1.502358	1.0948041	2.0616287	0.0117044	0.0046024

DDB1	0.5871986	0.4581037	0.7526727	2.63E-05	1.27E-05
DDB2	0.8422162	0.6755218	1.0500449	0.1270091	0.0016165
DDX21	0.8063061	0.6862605	0.947351	0.0088565	0.0004588
DDX50	0.7366388	0.5975723	0.9080687	0.0041918	2.95E-05
DEK	0.8025334	0.6730152	0.9569767	0.0142985	0.0001076
DHX30	0.700147	0.5228726	0.9375244	0.0167087	0.0034833
DID01	0.7640623	0.5883118	0.992316	0.0436118	0.0015134
DMAP1	0.9743708	0.7329223	1.2953603	0.8581678	0.296567
DNAJC1	0.6400081	0.5210221	0.7861671	2.11E-05	1.57E-06
DNMT1	1.01205	0.8103957	1.2638829	0.9158605	0.0931951
DNMT3A	1.0191312	0.7869557	1.3198055	0.8857647	0.0845915
DNMT3B	1.5471291	1.2505369	1.9140646	5.85E-05	2.52E-06
DNMT3L	1.3744139	0.7068053	2.6726078	0.3486104	2.41E-05
DNTT	1.1962313	0.9220797	1.5518934	0.1772945	0.0019959
DNTTIP2	0.6670791	0.5239416	0.8493209	0.0010189	3.11E-05
DOT1L	1.0683124	0.8495818	1.3433567	0.5718416	0.1573775
DPF1	1.596982	1.1942056	2.135605	0.0015948	2.52E-09
DPF2	0.6476297	0.4759762	0.8811873	0.0056926	0.0049657
DPF3	0.9074655	0.7794884	1.056454	0.2106041	0.0152433
DPPA3	1.0249953	0.6694828	1.5692942	0.9095527	6.02E-05
DR1	0.6833044	0.53596	0.8711561	0.0021189	1.78E-05
DTX3L	0.7745308	0.6238659	0.9615817	0.0206178	0.00081
DUSP1	0.7997587	0.7024693	0.9105222	0.0007345	9.90E-05
DZIP3	0.7202656	0.61146	0.8484326	8.60E-05	2.15E-05
E2F6	0.8943724	0.6464562	1.2373647	0.5003017	0.0134397
EED	1.2106337	0.8084102	1.812983	0.35356	0.0485484
EHMT1	0.8946978	0.6767458	1.1828431	0.4347263	0.0394762
EHMT2	0.9974154	0.7732922	1.2864962	0.9840995	0.0471185
ELP3	0.6145599	0.4807424	0.7856263	0.0001021	2.89E-06
ELP4	0.6286601	0.5178559	0.7631728	2.71E-06	9.44E-07
ENY2	0.8576661	0.6043279	1.2172054	0.3900263	0.0178167
EP300	0.7392712	0.6251437	0.8742341	0.000414	1.76E-05
EP400	0.9770749	0.7585628	1.2585319	0.857492	0.0603746
EPC1	0.6770766	0.5367033	0.854164	0.0010029	8.27E-06
EPC2	0.6966739	0.5759159	0.8427523	0.0001981	2.66E-05
ERBB4	0.9521773	0.7887345	1.149489	0.6100435	0.0183794
ERCC6	0.6595404	0.4837109	0.899284	0.0085131	4.08E-06
EXOSC1	2.5754849	1.6813322	3.945159	1.37E-05	4.98E-09
EXOSC2	0.6991516	0.5380903	0.9084218	0.0073864	0.000397
EXOSC3	0.6768022	0.4981744	0.9194797	0.0125283	1.47E-05
EXOSC4	1.1147225	0.8628338	1.4401454	0.405948	0.0195718
EXOSC5	1.237536	0.9590715	1.5968521	0.1012856	0.0140237
EXOSC6	0.8131535	0.5900981	1.1205232	0.2061044	0.0278623
EXOSC7	1.0073735	0.7668549	1.3233291	0.9579067	0.1023017
EXOSC8	1.2120172	0.8890462	1.6523164	0.2239296	0.0008938
EXOSC9	0.8471465	0.5930604	1.2100913	0.3618819	0.0463317
EYA1	1.3405154	1.1872932	1.5135111	2.22E-06	2.52E-10
EYA2	1.0005847	0.8453145	1.1843754	0.9945795	0.0181948
EYA3	0.6578694	0.5382906	0.8040121	4.29E-05	8.08E-06
EYA4	0.77042	0.5779875	1.02692	0.0752731	0.0038536
EZH1	0.7454787	0.5961274	0.9322477	0.010024	0.0011585

EZH2	1.5160014	1.2054213	1.9066033	0.0003747	6.72E-07
FBL	1.0095051	0.7784631	1.3091187	0.9431246	0.0098909
FBXL19	1.355126	1.0355532	1.7733192	0.026791	0.0019208
FMR1	0.6639843	0.5208545	0.846446	0.0009472	1.21E-05
FOXA1	1.2575614	1.0970697	1.4415317	0.0010023	2.50E-10
FOXP1	0.9055283	0.7178949	1.1422026	0.4022222	0.0408532
FOXP2	1.0700877	0.9198842	1.2448174	0.3800393	0.1352282
FOXP3	1.3133845	1.1285141	1.5285398	0.0004284	3.20E-07
FOXP4	1.2198763	0.9696425	1.5346876	0.0897386	0.0091687
FTO	0.752521	0.6362622	0.8900228	0.000898	3.99E-06
FXR1	0.8822918	0.6644228	1.1716015	0.3867802	0.0065741
FXR2	0.7861919	0.5982811	1.0331224	0.0843223	0.0071454
GABRG1	0.6981829	0.4554925	1.070181	0.0992084	0.0012133
GADD45A	0.7098598	0.6020637	0.8369562	4.54E-05	2.46E-05
GADD45B	1.081153	0.9327326	1.2531906	0.3003556	0.0873854
GADD45G	0.9587387	0.8293217	1.1083514	0.5690028	0.1560293
GATAD1	1.038969	0.781694	1.3809197	0.7922845	0.0827227
GATAD2A	0.7725089	0.5840261	1.0218209	0.0704976	0.0039475
GATAD2B	0.7902843	0.6304494	0.9906415	0.041199	0.0016768
GFI1	1.1567089	0.965741	1.3854392	0.113807	0.0172011
GFI1B	0.5630089	0.2174951	1.4574078	0.2364982	0.0021938
GLYATL1	0.853356	0.7890041	0.9229566	7.37E-05	4.90E-06
GTF2I	0.7271984	0.6340914	0.8339768	5.19E-06	8.76E-06
GTF3C1	0.8838577	0.6806975	1.1476528	0.3541978	0.0013374
GTF3C4	0.6573552	0.5437877	0.7946407	1.46E-05	5.34E-07
HAT1	0.7029677	0.5615305	0.8800299	0.0021052	3.96E-08
HBP1	0.6274147	0.5392438	0.7300021	1.61E-09	1.90E-10
HCFC1	0.8399525	0.6760056	1.0436603	0.1154314	0.0069719
HCFC2	0.6438641	0.5205346	0.7964139	4.94E-05	4.20E-07
HDAC1	0.9161241	0.707232	1.1867159	0.5070344	0.0612769
HDAC10	1.8338896	1.4630939	2.2986569	1.43E-07	9.44E-10
HDAC11	0.6159603	0.4769702	0.7954523	0.0002041	5.04E-06
HDAC2	0.7378251	0.5882534	0.9254276	0.0085274	2.77E-05
HDAC3	0.7750149	0.597995	1.0044366	0.0540416	0.0059105
HDAC4	0.8303204	0.6289547	1.096155	0.1894814	0.0083355
HDAC5	0.629432	0.5057863	0.7833044	3.34E-05	2.26E-06
HDAC6	0.8036978	0.6458628	1.0001042	0.0501093	0.0007574
HDAC8	1.0380545	0.6563087	1.6418449	0.8731461	0.0232094
HDAC9	0.7208256	0.5506566	0.9435818	0.0171892	0.0041284
HDGF	0.8920665	0.7228443	1.1009048	0.2872268	0.0102108
HELLS	1.4330736	1.1021811	1.8633054	0.0072247	0.000299
HIF1AN	0.6733686	0.5171232	0.8768225	0.0033266	1.05E-05
HIRA	0.7840558	0.581987	1.0562838	0.1096289	0.0021472
HIRIP3	0.7593525	0.5952052	0.9687687	0.0267398	0.0006597
HLCS	0.7981986	0.6264054	1.0171066	0.0683348	0.0020427
HMG20A	0.7237747	0.6025437	0.8693973	0.0005477	0.0001099
HMG20B	0.8907708	0.6398455	1.2401005	0.4932184	0.0114805
HMGA1	1.2811862	1.0972321	1.4959807	0.0017284	0.0059134
HMGA2	1.4911019	1.3065491	1.7017231	3.10E-09	9.44E-08
HMGB1	0.6804348	0.5162814	0.8967812	0.0062688	0.0017274
HMGB2	1.2096881	0.9227614	1.5858327	0.168187	0.0006572

HMGB3	1.2759568	1.0753855	1.513937	0.0052236	0.0080688
HMGN1	1.1452157	0.8507148	1.5416672	0.3713276	0.0124414
HMGN2	0.7448604	0.6138417	0.9038439	0.0028432	0.0002699
HMGN3	1.2565631	1.0145807	1.5562595	0.0363849	4.27E-05
HMGN4	0.7608603	0.6484214	0.8927966	0.0008086	1.33E-05
HP1BP3	0.8044158	0.6371815	1.0155424	0.0672105	0.0014315
HR	0.7428662	0.5720166	0.964745	0.0258053	0.0001188
HSPA1A	0.9005708	0.7407325	1.0948997	0.2934797	0.0117208
HUWE1	0.756975	0.6363449	0.9004725	0.0016686	2.02E-05
IDH1	0.9936717	0.8052608	1.226166	0.9528064	0.0004904
IDH2	0.8105861	0.6430985	1.0216938	0.0753664	0.004684
IFIT3	0.8172608	0.6887626	0.9697321	0.0207711	0.0008415
IGFBP7	0.7954823	0.6693633	0.9453642	0.0093797	0.0001219
ING1	0.7862468	0.5734856	1.0779417	0.1352358	0.0063618
ING2	0.7068123	0.5489932	0.9099996	0.0071129	0.0012071
ING3	0.6015308	0.4908041	0.7372378	9.73E-07	1.64E-06
ING4	0.7575995	0.5741227	0.9997114	0.049762	0.0004578
ING5	1.0474948	0.8110579	1.3528571	0.722209	0.2380817
JAK2	0.7762495	0.6475879	0.9304734	0.0061562	0.0003223
JARID2	0.7825564	0.6201307	0.987525	0.0388542	0.0067183
JDP2	0.7897431	0.6609225	0.9436721	0.0093744	1.89E-05
JMJD1C	0.7320207	0.620767	0.8632131	0.0002083	2.30E-05
JMJD4	0.9624462	0.7018864	1.319733	0.812167	0.1102244
KEAP1	0.70527	0.5211164	0.9545003	0.0237235	0.0001225
L3MBTL2	0.6975914	0.5233227	0.9298924	0.014065	0.0001357
L3MBTL3	0.780903	0.629988	0.9679702	0.0240034	0.0003918
L3MBTL4	0.6917763	0.5541043	0.8636542	0.0011354	0.0001554
LAS1L	0.8220562	0.5808057	1.1635154	0.2689358	0.0022072
LBR	0.8640683	0.7302771	1.0223708	0.0887176	5.98E-05
LEO1	0.6793502	0.5399686	0.8547102	0.0009669	5.10E-05
LMNA	0.9515728	0.7923485	1.1427935	0.5952036	0.0152056
LMNB1	1.3101953	1.0794821	1.5902179	0.0062596	9.38E-09
LMNB2	1.270077	0.9914871	1.6269455	0.0584515	0.0001956
MAP3K7	0.9257573	0.7038592	1.2176106	0.58112	0.0740598
MAPKAPK3	0.6877096	0.5422674	0.8721611	0.0020135	9.26E-05
MASTL	0.9147385	0.7032629	1.1898061	0.5064576	0.0255317
MAX	0.792055	0.5773569	1.0865917	0.1484141	0.005492
MAZ	0.9863363	0.791299	1.2294458	0.9025905	0.011754
MBD1	0.7848737	0.6147428	1.0020885	0.0519887	0.0025604
MBD2	0.6958306	0.5512209	0.8783779	0.0022813	8.39E-06
MBD3	1.1545495	0.8778315	1.5184971	0.3039779	0.0019084
MBD4	0.9584915	0.7234199	1.2699483	0.7677563	0.0383405
MBD5	0.6171946	0.4898843	0.77759	4.24E-05	2.39E-05
MBD6	1.2021659	0.9276377	1.557939	0.163902	0.0549645
MBIP	0.7720803	0.6353898	0.9381769	0.0092713	0.0009844
MBTD1	0.821743	0.6663752	1.0133353	0.0663465	0.0062137
MCRS1	0.9713676	0.6785582	1.3905293	0.8738915	0.0491413
MDC1	0.8849934	0.7191531	1.0890773	0.2485062	0.0106437
MDM2	0.7520036	0.6051458	0.9345011	0.0101389	4.58E-06
MDM4	1.152206	0.9619148	1.3801416	0.1239625	0.0213949
MECP2	0.5908785	0.4663623	0.74864	1.31E-05	8.49E-08

MEN1	0.9666156	0.6933633	1.3475558	0.8412453	0.0677661
MGA	0.6472757	0.5185839	0.8079037	0.00012	1.24E-05
MGMT	0.7729234	0.6197567	0.9639438	0.0222627	0.0025467
MIER1	0.6921907	0.5604107	0.8549587	0.0006396	6.77E-06
MIER2	1.0842544	0.8161275	1.4404707	0.5767689	0.1150048
MIER3	0.7087707	0.568888	0.8830489	0.0021494	0.001517
MLLT1	0.9345784	0.7130258	1.2249722	0.624062	0.021009
MLLT10	0.7829196	0.6371759	0.9619999	0.0198809	0.000127
MLLT3	0.7013013	0.5649954	0.8704912	0.0012918	5.10E-05
MLLT6	0.8946049	0.7284479	1.0986619	0.2880538	0.0390536
MOCS1	0.7879502	0.6594814	0.9414451	0.0086794	0.0004499
MORF4	0.2810849	0.0932385	0.8473827	0.02419	0.0002808
MORF4L1	0.6587944	0.5275372	0.8227098	0.000232	2.19E-06
MORF4L2	0.7867876	0.5778301	1.0713092	0.1278591	1.37E-05
MOV10	1.5860358	1.2247422	2.0539094	0.0004705	1.67E-05
MSH6	0.840584	0.6734267	1.0492329	0.1247534	0.0043629
MST1	1.0909837	0.9463241	1.2577568	0.2302124	0.0014973
MTA1	1.0958082	0.8789594	1.366156	0.4160939	0.0435747
MTA2	1.1167957	0.8132748	1.5335931	0.4948232	0.0049622
MTA3	0.8098252	0.5911047	1.1094765	0.1891153	0.0272499
MTF2	1.0814922	0.8238948	1.4196294	0.5724829	0.2381104
MYBBP1A	1.2446786	0.9428928	1.643055	0.1223671	0.0024507
MYO1C	0.7377444	0.5894221	0.9233905	0.0079088	0.000325
MYSM1	0.9575551	0.7944907	1.1540874	0.6488496	0.063907
NAP1L1	1.0742947	0.8405996	1.3729593	0.56692	0.0003456
NAP1L2	0.9239647	0.8175353	1.0442495	0.2053265	0.0127721
NAP1L3	1.0428055	0.881611	1.2334729	0.6246779	0.179398
NAP1L4	0.8199321	0.5568173	1.2073772	0.3146481	0.0226493
NAP1L5	0.7574479	0.6135997	0.9350188	0.0097316	0.0001348
NASP	1.2544494	0.9738414	1.6159135	0.0792963	0.039424
NAT10	0.8966711	0.6566213	1.224479	0.4926709	0.0213945
NBN	0.7678847	0.6402152	0.9210134	0.0044154	3.06E-05
NCL	0.7775754	0.6282733	0.9623575	0.0207399	4.30E-05
NCOA1	0.6560434	0.540664	0.7960452	1.94E-05	9.90E-06
NCOA2	0.7393211	0.6191512	0.8828146	0.0008464	1.62E-05
NCOA3	0.7267714	0.6049989	0.8730538	0.0006475	0.0001914
NCOA4	0.6306996	0.5444397	0.7306263	8.12E-10	1.08E-10
NCOA5	0.7131017	0.5582373	0.910928	0.0067941	0.0002193
NCOA6	0.7372248	0.5804805	0.9362939	0.0124299	2.91E-05
NCOA7	0.6991136	0.6045153	0.8085153	1.40E-06	5.19E-07
NCOR1	0.6864722	0.5640645	0.8354436	0.0001739	1.44E-07
NCOR2	1.0030842	0.8110043	1.2406568	0.9773471	0.0662322
NEK6	0.8640226	0.7753601	0.9628237	0.0081505	2.12E-05
NEK9	0.8254703	0.6579653	1.0356187	0.0974164	0.0011927
NFRKB	0.8043154	0.6311325	1.0250199	0.0783716	0.0003656
NFYB	0.9109578	0.6636736	1.2503797	0.5638448	0.0334476
NFYC	0.5406222	0.3854292	0.7583035	0.0003672	8.76E-06
NIPBL	0.7285811	0.5983483	0.8871595	0.0016237	3.73E-05
NOC2L	0.889761	0.6888678	1.1492403	0.3710068	0.0134638
NPAS2	1.3777325	1.1177489	1.6981872	0.002671	0.0002943
NPM1	0.7182531	0.5870592	0.8787658	0.0013008	1.17E-05

NPM2	0.9692584	0.8145631	1.1533322	0.7248707	0.0773712
NSD1	0.7277576	0.602532	0.8790091	0.0009719	1.27E-05
OGT	1.1936875	0.9920438	1.4363176	0.0607444	0.0049272
PADI1	1.0967902	1.0048962	1.1970875	0.0385119	0.0001064
PADI2	1.0792426	0.9345158	1.2463831	0.2992438	0.0327351
PADI3	1.1953967	1.0916176	1.309042	0.0001173	2.51E-07
PADI4	0.9090577	0.6353476	1.3006831	0.6019098	0.1932302
PAF1	0.6934411	0.514388	0.9348207	0.016295	0.0004971
PAK2	0.7663578	0.6129398	0.9581762	0.0195527	0.0012801
PARG	0.7300084	0.5727914	0.9303776	0.0109861	0.0010841
PARP1	0.8449231	0.6877127	1.0380718	0.1086605	0.0006153
PARP2	1.0645277	0.8149675	1.3905085	0.6463885	0.0851678
PARP3	1.1263547	0.8812164	1.4396859	0.342024	0.0386562
PARP4	0.7446323	0.6383162	0.8686561	0.0001759	7.58E-08
PAXIP1	0.7884525	0.6008223	1.0346776	0.0865075	0.0008203
PBK	1.3680129	1.1382582	1.6441431	0.0008365	8.90E-05
PCGF1	1.094845	0.7787846	1.5391747	0.6021055	0.1019412
PCGF2	0.9514744	0.7582781	1.1938938	0.6675175	0.0306867
PCGF3	1.1036814	0.8626846	1.4120024	0.4325429	0.0548519
PCGF5	0.6160642	0.5107806	0.7430492	4.06E-07	2.12E-08
PCGF6	1.0571276	0.7958671	1.4041523	0.701299	0.0013426
PCNA	0.9183989	0.6924888	1.2180074	0.5545772	0.0001615
PELP1	1.0141206	0.7361068	1.3971352	0.9316456	0.0468312
PES1	0.7360535	0.5739225	0.943986	0.0157763	0.0004038
PHC1	0.8771496	0.720282	1.0681807	0.1922779	0.0072349
PHC2	0.955203	0.7456761	1.2236045	0.7167938	0.0316386
PHC3	0.7672779	0.6326313	0.930582	0.0071296	0.0010308
PHF1	0.8960122	0.6976294	1.1508086	0.3898383	0.0322555
PHF10	0.8419237	0.6785051	1.0447019	0.1181054	0.0127385
PHF12	1.1094059	0.8265188	1.489115	0.4893699	0.1959873
PHF13	0.9466083	0.7530089	1.1899824	0.6383456	0.0129136
PHF14	0.7599744	0.5650543	1.0221337	0.069496	0.0016988
PHF19	1.4083728	1.0917277	1.8168577	0.0084044	0.0001074
PHF2	0.7353304	0.5972178	0.9053829	0.0037747	9.55E-05
PHF20	0.7294156	0.5696394	0.9340069	0.0123781	0.0003486
PHF20L1	0.7908959	0.5924593	1.0557964	0.1114764	0.0126571
PHF21A	1.3033868	0.9799614	1.7335552	0.0686282	0.0137592
PHF21B	1.2945919	0.954356	1.7561247	0.0969826	0.001809
PHF23	0.6961299	0.5239228	0.9249393	0.0124865	0.0012565
PHF3	0.7329647	0.6242559	0.8606044	0.000149	4.95E-06
PHF6	0.79933	0.6349259	1.006304	0.0565887	0.0001694
PHF7	0.8835413	0.6375157	1.2245113	0.4571244	0.203862
PHF8	0.8565554	0.6733463	1.0896135	0.2073056	0.0149764
PHIP	0.9671443	0.7823099	1.1956492	0.7575379	0.0520407
PIWIL4	1.0976561	0.8703312	1.3843567	0.4312978	0.0630811
PKN1	0.8648246	0.6824468	1.0959414	0.2294317	0.0072409
POGZ	1.0039592	0.8076165	1.2480354	0.9716112	0.0436361
POLE3	0.6435565	0.5105993	0.8111351	0.0001894	1.88E-06
PPARGC1A	0.6968131	0.614662	0.789944	1.66E-08	2.45E-11
PPM1G	0.9521069	0.6897467	1.3142615	0.7653957	0.0123545
PPP2CA	0.613511	0.4608734	0.8167011	0.0008163	4.22E-05

PPP4C	1.1307853	0.8082566	1.5820167	0.4731099	0.0764538
PPP4R2	0.752163	0.5792789	0.9766438	0.0325718	0.0004922
PRC1	1.427308	1.1436893	1.7812602	0.001645	5.31E-06
PRDM1	0.7915417	0.6821867	0.9184263	0.0020581	0.0006797
PRDM10	0.6531279	0.5006765	0.8519994	0.0016839	0.0002477
PRDM11	0.6662719	0.4988889	0.8898138	0.0059443	0.0002482
PRDM12	3.1710147	1.4868224	6.7629692	0.0028232	7.68E-07
PRDM13	6.4311191	0.2609141	158.51691	0.2550135	0.0015905
PRDM14	1.196052	0.7270923	1.9674812	0.480827	0.0018268
PRDM15	1.1774054	0.8131431	1.7048455	0.3871895	0.1077285
PRDM16	0.6186415	0.4706097	0.8132373	0.0005786	5.51E-05
PRDM2	0.7450587	0.5903316	0.9403401	0.0132158	0.0003676
PRDM4	0.7045858	0.5645347	0.879381	0.0019563	0.0001149
PRDM5	0.7971608	0.5650673	1.1245835	0.1966296	0.027514
PRDM7	2.0785897	0.7882338	5.4812863	0.1391478	0.0001441
PRDM8	1.3179845	1.0978436	1.5822683	0.0030657	0.0007791
PRDM9	1.4126955	0.5262082	3.7926215	0.4929034	0.0002468
PRKAA1	0.6786112	0.5621536	0.8191944	5.43E-05	1.09E-06
PRKAA2	0.6273446	0.542063	0.7260434	3.99E-10	1.68E-08
PRKAB1	0.6951941	0.5673187	0.851893	0.0004557	0.0001372
PRKAB2	0.758989	0.626264	0.9198425	0.0049245	0.000618
PRKAG1	0.5782477	0.4370848	0.7650012	0.0001251	6.94E-06
PRKAG2	0.6795892	0.5329012	0.8666552	0.0018485	0.0002888
PRKAG3	1.1668912	0.573012	2.3762765	0.67058	0.0054205
PRKCA	0.9608426	0.8090565	1.1411051	0.6488723	0.0671126
PRKCD	0.9406485	0.7429695	1.1909233	0.6112238	0.0205709
PRKDC	0.8311409	0.6994562	0.9876176	0.035594	0.0001671
PRMT1	1.1205408	0.7791381	1.6115393	0.5393026	0.0023794
PRMT2	0.7458697	0.5838529	0.9528455	0.018949	0.0007474
PRMT3	0.9530866	0.7079192	1.2831608	0.7514808	0.0041119
PRMT5	0.7409156	0.6355695	0.863723	0.000127	5.30E-05
PRMT6	0.7516712	0.608518	0.9285009	0.008093	0.0008213
PRMT7	0.8903055	0.6219157	1.2745199	0.52558	0.2324753
PRMT8	0.9114068	0.3869372	2.1467629	0.8319324	0.0654555
PRPF31	0.9871966	0.6973809	1.3974532	0.9420673	0.0166472
PRR12	0.8831851	0.7015724	1.1118111	0.2902443	0.0246021
PRR14	0.9852811	0.7432024	1.3062108	0.9179036	0.0810204
PSIP1	0.6879694	0.5653002	0.8372576	0.0001895	0.0001666
PYG01	1.3084373	1.0366955	1.6514087	0.0236123	0.0034912
PYG02	1.2781666	0.8996276	1.8159845	0.1707918	0.1277424
RAC3	1.3534186	1.174296	1.559864	2.94E-05	8.85E-05
RAD51	1.3577202	1.0670755	1.7275293	0.0128392	3.37E-06
RAD54B	1.3749454	1.0797384	1.7508637	0.0098203	0.0016944
RAD54L	1.3244747	1.1220802	1.5633759	0.0008959	9.27E-05
RAD54L2	0.7277842	0.5635548	0.939873	0.0148833	0.0001037
RAG1	0.4723475	0.3629029	0.6147984	2.44E-08	2.39E-08
RAG2	2.5454595	0.3121097	20.759895	0.3829122	0.0070199
RAI1	0.89773	0.7333831	1.0989061	0.2956749	0.0281511
RARA	0.8756386	0.7289479	1.0518486	0.1557215	0.0002543
RB1	0.7095467	0.6058176	0.8310364	2.09E-05	1.96E-09
RBBP4	0.7816028	0.6162789	0.9912768	0.0421311	0.0003073

RBBP5	0.6107855	0.478382	0.779835	7.66E-05	8.45E-05
RBBP7	0.8710212	0.637601	1.1898946	0.3856163	0.0078983
RBP1	1.1192442	0.9415357	1.3304939	0.2015858	0.0117327
RBX1	1.1398191	0.7986083	1.6268146	0.4709082	0.0076839
RCC1	1.3506548	1.0808755	1.6877691	0.0081918	8.33E-05
RCOR1	0.755635	0.6238016	0.9153299	0.0041783	6.54E-05
RCOR2	1.3771206	1.1605486	1.6341074	0.0002468	2.60E-05
RCOR3	0.8746005	0.6973765	1.0968624	0.2461581	0.0247003
REST	0.6393747	0.5257774	0.7775152	7.41E-06	4.44E-06
RING1	0.8614282	0.6687372	1.1096415	0.2482383	0.0132061
RIT1	0.7456164	0.6436211	0.8637751	9.19E-05	2.62E-08
RMI1	0.6972193	0.5507104	0.8827049	0.0027301	4.53E-05
RNF168	0.7667881	0.6123338	0.9602016	0.0206765	0.0009149
RNF17	1.3037866	0.9487904	1.791607	0.10188	0.0113331
RNF2	0.7724789	0.6161863	0.9684144	0.0252055	0.0016303
RNF20	0.6085901	0.5131566	0.7217717	1.15E-08	2.12E-08
RNF40	0.7146583	0.597554	0.8547119	0.0002339	2.20E-05
RNF8	0.6569849	0.4941736	0.8734363	0.0038364	1.41E-05
RPS6KA3	0.7749283	0.6532201	0.9193131	0.0034442	0.000123
RPS6KA4	1.2269947	0.9154345	1.6445918	0.1710717	0.0189849
RPS6KA5	0.5323552	0.3627211	0.7813222	0.0012795	9.10E-05
RSAD1	0.9115621	0.6619758	1.2552505	0.5705375	0.0950683
RSF1	0.6666778	0.5429449	0.8186085	0.0001085	6.02E-05
RTF1	0.6997264	0.5314388	0.9213048	0.0109616	0.002595
RUVBL1	0.9448549	0.6845731	1.3040987	0.730082	0.0134455
RUVBL2	1.2421762	0.8784107	1.7565834	0.2199479	0.0270582
RYBP	0.6380845	0.5102853	0.7978904	8.15E-05	1.58E-05
SAFB	0.9099185	0.6905825	1.1989178	0.5023449	0.0446196
SAP130	0.8053351	0.6362986	1.0192772	0.0716845	0.0017794
SAP18	0.4976981	0.3757185	0.6592793	1.15E-06	2.99E-07
SAP30	0.9813094	0.8256224	1.1663543	0.8304978	0.0146588
SAP30L	0.6111661	0.5072272	0.7364038	2.25E-07	6.88E-11
SATB1	0.7187355	0.5874255	0.8793979	0.0013342	5.15E-05
SATB2	0.7558388	0.6447516	0.8860657	0.0005577	4.71E-07
SCMH1	0.7884851	0.6181797	1.0057087	0.0556057	0.004934
SCML1	1.1199675	0.9183697	1.3658193	0.2631569	0.0289363
SCML2	1.4524444	1.0337859	2.0406497	0.031437	0.0058223
SCML4	1.1730303	0.8411426	1.6358704	0.3469677	0.0204965
SENP1	0.8526708	0.6529307	1.1135141	0.2418406	0.0048719
SENP3	0.8960809	0.643637	1.2475369	0.5157429	0.0166888
SET	0.6769916	0.5342499	0.8578712	0.0012429	9.62E-06
SETBP1	0.6797516	0.5722921	0.8073888	1.10E-05	4.58E-08
SETD1A	1.0190819	0.7787361	1.3336071	0.8904531	0.0430981
SETD2	0.7420581	0.6068776	0.9073498	0.0036426	9.06E-05
SETD3	0.529074	0.4284866	0.6532743	3.27E-09	2.33E-07
SETD4	1.4771237	1.0753062	2.0290914	0.0160324	0.0001212
SETD5	1.076451	0.864465	1.3404207	0.5103007	0.2005651
SETD6	1.3112523	0.946453	1.8166593	0.1032902	0.0060199
SETD7	0.8067697	0.6841288	0.951396	0.0107045	0.001248
SETDB1	0.8525412	0.667866	1.0882819	0.2002731	0.0052765
SETDB2	0.6043464	0.4624196	0.7898338	0.0002265	3.40E-05

SETMAR	0.7068999	0.5359329	0.9324068	0.0140737	0.0027935
SF3B1	0.7949777	0.6416021	0.9850177	0.0359054	0.0014851
SF3B3	0.7388252	0.5950639	0.9173178	0.0061135	0.0005096
SFMBT1	0.7092712	0.5668327	0.8875028	0.0026699	0.0007378
SFMBT2	0.9058385	0.7514783	1.0919057	0.2994912	0.012302
SFPQ	0.9281895	0.724907	1.1884777	0.5546168	0.1079243
SHPRH	0.634459	0.5038372	0.7989449	0.0001095	0.0001259
SIN3A	0.6742933	0.5396551	0.8425224	0.0005247	5.35E-05
SIN3B	1.0758695	0.8462009	1.3678728	0.5505787	0.0748624
SIRT1	0.6666963	0.555778	0.799751	1.26E-05	8.16E-07
SIRT2	0.6050625	0.4345203	0.8425397	0.0029373	0.0002008
SIRT3	0.5981298	0.4466154	0.8010455	0.0005639	8.88E-08
SIRT4	0.63074	0.4748033	0.8378899	0.0014696	0.0018603
SIRT5	0.6045039	0.4620736	0.7908372	0.0002409	0.0001131
SIRT6	1.383018	0.9718095	1.9682239	0.0716821	0.0155499
SIRT7	2.1169596	1.5263482	2.9361047	7.00E-06	5.33E-08
SMARCA1	0.733575	0.6178883	0.8709216	0.0004027	0.0003469
SMARCA2	0.6436252	0.5454392	0.759486	1.81E-07	7.19E-07
SMARCA4	0.8889132	0.6804414	1.1612559	0.3878218	0.0164446
SMARCA5	0.6527605	0.5327913	0.7997433	3.84E-05	3.38E-06
SMARCA1	0.6969588	0.5682312	0.8548483	0.0005297	6.15E-05
SMARCA1	0.7311491	0.5624551	0.9504384	0.0192949	0.0014573
SMARCB1	0.6688021	0.5240499	0.8535376	0.0012268	1.77E-05
SMARCC1	0.7443053	0.6016131	0.9208415	0.0065403	0.0006343
SMARCC2	0.8341065	0.6928953	1.0040963	0.0552675	0.0120551
SMARCD1	1.1336803	0.8171342	1.5728517	0.4526125	0.1165057
SMARCD2	1.0100209	0.7601669	1.3419976	0.945175	0.0120668
SMARCD3	1.3437746	1.1139636	1.6209956	0.0020167	0.0003419
SMARCE1	0.7666656	0.5731225	1.0255681	0.0734713	0.0012573
SMC1A	0.8015085	0.6673941	0.9625735	0.0178726	0.002483
SMCHD1	0.8205584	0.6736677	0.999478	0.0493967	0.0012106
SMYD1	25.327515	1.1200148	572.74514	0.0422349	0.0040097
SMYD2	0.623932	0.4906853	0.7933621	0.0001189	2.18E-05
SMYD3	1.0817208	0.7882206	1.4845081	0.6266818	0.0158182
SMYD4	0.8074184	0.6060262	1.0757364	0.1439446	0.000665
SMYD5	0.8221752	0.6019912	1.1228937	0.2182648	0.0537957
SNAI2	1.0939754	0.9470639	1.2636764	0.2221811	0.0868205
SND1	0.7487983	0.5807622	0.9654536	0.0256736	5.98E-05
SP1	0.7969829	0.6488746	0.9788975	0.0305188	5.03E-05
SP100	0.8829671	0.6668674	1.1690945	0.3847967	0.0311149
SP110	0.9277561	0.6996503	1.2302308	0.6024887	0.0723581
SP140	1.2573493	1.0466988	1.5103936	0.0143724	0.002853
SPEN	0.8019461	0.6837626	0.9405567	0.0066606	8.79E-06
SPOP	0.6859941	0.5286595	0.8901531	0.0045773	0.0003845
SRCAP	0.8174651	0.6328209	1.0559849	0.1228453	0.0021612
SRRM2	1.0302082	0.8654328	1.2263563	0.7378661	0.3117313
SS18L1	1.020687	0.7818597	1.3324666	0.8803244	0.1454159
SS18L2	1.6303965	1.0999936	2.416553	0.0149067	0.0030163
SSRP1	0.7601217	0.5961346	0.969219	0.0269582	0.002043
STK31	1.6824078	1.2482416	2.2675865	0.0006356	4.40E-07
STK4	0.921055	0.7233691	1.1727656	0.5046895	0.0053635

SUDS3	0.9390063	0.7031278	1.254015	0.6698263	0.0165484
SUPT16H	0.7696115	0.6222792	0.9518264	0.01572	0.0013386
SUPT3H	0.7681624	0.5818675	1.0141029	0.0627239	0.0101064
SUPT6H	0.7340938	0.5974806	0.9019434	0.003258	2.07E-05
SUPT7L	1.1001884	0.8055702	1.5025563	0.5482317	0.3062186
SUV39H1	1.2889258	0.9347261	1.7773438	0.1215717	0.0464882
SUV39H2	0.8814293	0.6588926	1.1791264	0.3952653	0.0008548
SUZ12	0.6974585	0.5579382	0.8718679	0.0015559	3.29E-05
SYNCRIP	0.8078352	0.6506487	1.0029956	0.0532521	0.0006106
TAF1	0.8574024	0.7017663	1.0475551	0.1322285	0.0037878
TAF10	2.2749982	1.7427893	2.9697318	1.49E-09	6.55E-08
TAF12	0.9505785	0.6719851	1.3446721	0.7745578	0.0008031
TAF1L	0.7148029	0.0835927	6.1122955	0.759121	0.164236
TAF2	0.7791904	0.637851	0.9518487	0.0145572	8.35E-06
TAF4	0.948923	0.6553891	1.373924	0.7812844	0.0092635
TAF5	0.8240704	0.6126929	1.1083727	0.2006999	0.0257338
TAF5L	0.8391694	0.6508382	1.0819976	0.1763094	0.0135194
TAF6	0.9084445	0.7073389	1.1667271	0.4519784	0.0072016
TAF6L	1.0909995	0.7874067	1.5116456	0.6006567	0.0672344
TAF7	0.8043978	0.6437955	1.0050641	0.0554275	0.0093417
TAF9	0.66017	0.4812376	0.9056325	0.0100387	6.35E-05
TAF9B	0.715052	0.5817815	0.8788511	0.0014371	5.88E-06
TBL1XR1	0.9554803	0.763855	1.1951778	0.6900628	0.2371819
TCF4	0.7700409	0.6725986	0.8816	0.0001534	1.32E-05
TDG	1.1788662	0.8737935	1.5904506	0.2814875	0.0061058
TDRD1	0.7982327	0.575289	1.1075746	0.1774811	0.0075757
TDRD3	0.6567845	0.5058922	0.8526834	0.0015964	1.09E-05
TDRD5	0.9210877	0.6655123	1.2748111	0.6200895	0.0147537
TDRD7	0.5772579	0.4722765	0.7055755	8.08E-08	1.15E-08
TDRD9	0.9072332	0.7801642	1.0549986	0.2060344	0.019817
TDRKH	0.74892	0.5725687	0.9795876	0.0348144	9.39E-05
TERF1	0.773505	0.605395	0.9882969	0.0399641	0.0020796
TERF2	0.7003348	0.5421666	0.9046461	0.0063867	0.000142
TEX10	0.6666028	0.5118259	0.8681845	0.0026251	0.0005718
TFDP1	0.6508207	0.5292403	0.8003313	4.68E-05	1.12E-05
TFF1	1.1720566	1.0560491	1.3008076	0.0028312	3.71E-08
TFPT	1.1359011	0.8653194	1.4910927	0.3586596	0.0008762
TLE1	0.7697034	0.615585	0.9624069	0.0216707	0.0070811
TLE2	0.7802009	0.6618852	0.9196661	0.0030964	0.0005701
TLE4	0.7844638	0.6014426	1.0231789	0.0733071	0.0003966
TLK1	0.7704146	0.5875919	1.0101204	0.0591456	0.0004005
TLK2	0.6777527	0.5069984	0.9060161	0.0086297	0.00255
TNP1	4.4451284	1.0573258	18.68787	0.0417461	0.0045867
TNP2	0.7790758	0.0254363	23.861898	0.8862987	0.0499659
TOP2A	1.2941461	1.1079411	1.5116455	0.0011411	7.11E-06
TOP2B	0.7298305	0.6011336	0.8860802	0.001463	0.0001177
TOPBP1	0.9455583	0.7560173	1.1826192	0.6238187	0.057196
TOX	1.0108988	0.8896049	1.1487307	0.8679844	0.1474652
TP53	0.9171824	0.7148867	1.1767229	0.4965228	0.0228906
TP53BP1	0.7884353	0.6475084	0.9600343	0.0179855	0.0002117
TRIM16	1.1241553	0.8494846	1.4876374	0.4129302	2.75E-05

TRIM24	0.6291771	0.4871008	0.812694	0.0003879	8.62E-06
TRIM28	0.9279148	0.6982056	1.2331981	0.60617	0.0096886
TRIM33	0.7109534	0.5621425	0.8991577	0.0044124	3.37E-05
TRRAP	0.8079735	0.6619997	0.986135	0.0359675	0.0004408
TSPYL1	0.622574	0.5354856	0.723826	7.10E-10	1.59E-09
TSPYL2	1.1057539	0.9449046	1.2939843	0.2100666	0.0387691
TSPYL4	0.676338	0.5623565	0.8134219	3.28E-05	3.51E-07
TSPYL5	0.7387737	0.63067	0.8654075	0.0001763	1.00E-06
TSPYL6	1.152411	0.3884454	3.418887	0.7982039	0.0004591
TSSK6	1.0048973	0.7779105	1.2981166	0.9701675	0.0800999
TTF2	1.0139197	0.7458627	1.3783141	0.9296835	0.1160017
TTK	1.7687733	1.4130903	2.2139838	6.40E-07	3.47E-09
TXN2	0.6404293	0.4565451	0.8983772	0.0098641	0.0038116
UBE2A	0.8813366	0.638718	1.2161144	0.4419408	0.0017604
UBE2B	0.6389577	0.495978	0.8231552	0.0005287	1.32E-05
UBE2D1	0.999311	0.7604387	1.313219	0.9960544	8.28E-05
UBE2D3	0.50582	0.3988907	0.6414135	1.86E-08	4.31E-10
UBE2E1	0.8053928	0.6089809	1.0651526	0.1291598	0.0069989
UBE2H	0.86354	0.6616351	1.1270583	0.2802691	0.01153
UBE2N	0.7525432	0.5519037	1.0261233	0.0723411	0.0004107
UBE2T	1.6667359	1.3614142	2.0405316	7.48E-07	1.04E-09
UBN1	0.7927614	0.6400497	0.9819091	0.0334044	0.0009913
UBR2	0.6784825	0.5537473	0.8313151	0.0001823	2.07E-06
UBTF	0.8282278	0.6329215	1.0838016	0.1696006	0.0075783
UHL5	0.6886543	0.5395207	0.8790113	0.0027392	1.26E-05
UHRF1	1.4621684	1.2179022	1.7554254	4.63E-05	3.58E-06
UHRF2	0.8676117	0.6923048	1.0873103	0.2175326	0.0121381
USP11	0.858516	0.6806912	1.0827961	0.1976681	0.0069083
USP12	0.7023611	0.5788313	0.8522538	0.0003438	4.97E-06
USP15	0.9160625	0.6679642	1.2563106	0.5864219	0.0293453
USP16	0.8257322	0.6551564	1.040719	0.1048237	0.001041
USP21	1.4337953	1.0652591	1.9298298	0.0174539	0.0007015
USP22	0.7610172	0.6252639	0.9262443	0.0064449	0.0001982
USP3	0.7434485	0.5537647	0.9981057	0.0485434	0.0069364
USP36	0.8689132	0.6823708	1.1064516	0.2544681	0.0144434
USP44	0.4800235	0.2422822	0.9510502	0.0353931	0.0155535
USP46	0.7163688	0.567882	0.9036813	0.0048847	0.0001748
USP49	1.2921715	0.9613235	1.7368838	0.0893985	0.0320863
USP7	0.632524	0.4897007	0.8170023	0.0004518	2.70E-05
UTY	0.920009	0.8235706	1.0277402	0.1400358	0.0173327
VDR	0.8736856	0.7499463	1.0178414	0.083094	0.0015407
VPS72	0.66275	0.479161	0.9166805	0.0129318	0.0055503
VRK1	0.7740756	0.5692139	1.0526677	0.1025286	0.0005553
WAC	0.6593154	0.5392044	0.8061818	4.91E-05	2.16E-06
WDR5	0.8277926	0.6503291	1.0536827	0.1247351	0.0207363
WDR77	1.0490066	0.7314205	1.50449	0.7948356	0.0009239
WSB2	0.8068203	0.6118189	1.0639735	0.1283437	0.0007619
XRCC1	0.9584758	0.7144937	1.2857719	0.7772109	0.0454335
YAF2	0.78874	0.5736074	1.0845585	0.1441709	0.0107946
YEATS2	0.9742381	0.8033036	1.1815456	0.790891	0.0101627
YEATS4	0.7063553	0.5675733	0.879072	0.0018408	7.40E-06

YWHAB	0.6295854	0.4943792	0.8017687	0.0001761	1.05E-05
YWHAE	0.5567096	0.4212861	0.7356654	3.81E-05	1.61E-05
YWHAZ	0.7942977	0.6021416	1.047775	0.103163	0.0004331
YY1	0.6819882	0.5120799	0.908272	0.0088426	0.001809
ZBTB16	0.6931749	0.607726	0.7906384	4.77E-08	2.42E-08
ZBTB24	0.8158132	0.6335062	1.0505834	0.1146666	0.003435
ZBTB33	0.6693156	0.545321	0.8215039	0.0001226	4.90E-06
ZBTB38	0.8170504	0.6823062	0.9784042	0.0279921	0.0002794
ZBTB4	0.6166459	0.5080381	0.7484717	1.00E-06	1.09E-07
ZBTB7C	1.0876396	0.965005	1.2258589	0.1687105	0.005882
ZCWPW1	1.360308	0.9710192	1.9056655	0.0736173	0.0002283
ZGPAT	1.249276	0.963084	1.6205135	0.0936193	0.0122945
ZHX1	0.6727566	0.5536302	0.8175158	6.71E-05	3.70E-06
ZHX2	0.8704212	0.7305956	1.0370073	0.120364	0.0074592
ZHX3	0.6871496	0.5676103	0.831864	0.0001192	6.27E-05
ZMYM1	0.7743686	0.6002934	0.9989228	0.0490381	0.0008809
ZMYM2	0.9572664	0.7417454	1.235409	0.7371866	0.0552226
ZMYM3	0.9075169	0.7096093	1.1606202	0.4394146	0.021655
ZMYM4	0.7718101	0.62085	0.9594764	0.0196752	4.93E-05
ZMYM5	0.8470965	0.6557431	1.0942891	0.2040014	0.0058402
ZMYM6	0.8965061	0.615067	1.3067245	0.5698207	0.129587
ZMYND11	0.6325564	0.5264262	0.7600829	1.02E-06	1.06E-09
ZNF217	0.780617	0.6310593	0.9656189	0.0224674	0.0006267
ZNF516	0.7188158	0.5881627	0.878492	0.0012566	0.000349
ZNF532	0.9547263	0.7988562	1.1410092	0.6104365	0.0394087
ZNF541	0.9206211	0.7773173	1.0903439	0.3380369	0.0005773
ZNF592	0.7119436	0.5805137	0.8731296	0.0011028	1.66E-05
ZNF687	0.7367335	0.5948978	0.9123857	0.0051041	4.88E-05
ZNF711	0.866689	0.7743112	0.9700877	0.0128436	0.0022356
ZNHIT1	1.342214	1.032561	1.7447283	0.0278488	0.0013478
ZRANB3	0.6560918	0.4449339	0.9674614	0.0334281	0.0010119