Supplementary Table S1: Zsummary statistics for module preservation

Module	moduleSize	medianRank.pres	Zsummary	Eigengene-BD correlation in NISC1/NISC2	Comment
green	908	6	53	-/-	Included
turquoise	2766	19	53	-/-	Included
yellow	959	10	52	+/+	Included
blue	1523	16	48	-/-	Included
red	847	11	43	-/-	Included
purple	442	2	37	+/+	Included
midnightblue	282	17	30	-/-	Included
salmon	293	4	29	-/-	Included
darkgreen	175	4	25	-/-	Included
royalblue	179	1	24	+/+	Included
lightcyan	254	12	24	+/+	Included
lightyellow	209	17	21	+/+	Included
darkturquoise	166	14	20	-/-	Included
darkgrey	166	21	17	+/+	Included
skyblue	135	12	17	+/+	Included
darkorange	141	25	17	-/-	Included
saddlebrown	133	22	16	+/+	Included
white	141	29	15	+/+	Included
darkred	179	33	15	+/+	Included
paleturquoise	100	22	14	-/-	Included
darkolivegreen	74	29	10	+/+	Included
pink	559	7	42	+/-	Excluded opposite direction
black	777	6	41	+/-	Excluded opposite direction
brown	1012	28	39	-/+	Excluded opposite direction
tan	338	18	31	+/-	Excluded opposite direction
magenta	519	17	30	-/+	Excluded opposite direction
cyan	286	23	28	-/+	Excluded opposite direction
greenyellow	394	22	28	+/-	Excluded opposite direction
grey60	212	26	20	-/+	Excluded opposite direction
lightgreen	211	27	19	+/-	Excluded opposite direction
orange	150	8	18	+/-	Excluded opposite direction
violet	99	13	14	-/+	Excluded opposite direction
steelblue	101	32	13	+/-	Excluded opposite direction
grey	1841	35	-2.5	-/+	Excluded opposite direction

Supplementary Table S2: Comparison of brain transcriptome modules generated using RNA-seq (this study) and microarray (Oldham et al., 2008)

Bipolar Disorder Networks		Preservation of normal human brain				Cell composition
Module Color	N genes	Oldham et al (2008) module	Overlap p-value	Corrected p-value	Gene overlap (%)	Oldham et al (2008) module annotation
pink	559	M9A	<1.0E-16	<1.0E-16	80	oligodendrocytes
lightyellow	209	M9A	<1.0E-16	<1.0E-16	58	oligodendrocytes
black	777	M9A	<1.0E-16	<1.0E-16	50	oligodendrocytes
salmon	293	M9A	<1.0E-16	<1.0E-16	50	oligodendrocytes
skyblue	135	M9A	1.5E-05	9.4E-03	50	oligodendrocytes
yellow	959	M15A	<1.0E-16	<1.0E-16	49	astrocytes
orange	150	M18A	3.9E-08	2.5E-05	44	neurons, synaptic proteins
darkturquoise	166	M18A	3.7E-10	2.3E-07	43	neurons, synaptic proteins
darkgrey	166	M16A	8.0E-07	5.0E-04	38	neurons
paleturquoise	100	M4A	1.7E-12	1.1E-09	36	microglia
magenta	519	M9A	1.2E-14	7.3E-12	36	oligodendrocytes
saddlebrown	133	M18A	2.7E-05	1.7E-02	33	neurons, synaptic proteins
steelblue	101	M18A	2.7E-05	1.7E-02	33	neurons, synaptic proteins
purple	442	M15A	<1.0E-16	<1.0E-16	33	astrocytes
brown	1012	M18A	<1.0E-16	<1.0E-16	32	neurons, synaptic proteins
cyan	286	M15A	4.9E-13	3.1E-10	32	astrocytes
lightcyan	254	M18A	8.9E-07	5.6E-04	32	neurons, synaptic proteins
grey60	212	M18A	5.6E-09	3.5E-06	31	neurons, synaptic proteins
turquoise	2766	M18A	<1.0E-16	<1.0E-16	31	neurons, synaptic proteins
darkred	179	M18A	2.9E-04	ns	30	neurons, synaptic proteins
royalblue	179	M18A	3.3E-05	2.1E-02	30	neurons, synaptic proteins
green	908	M9A	<1.0E-16	<1.0E-16	30	oligodendrocytes
darkorange	141	M18A	4.5E-05	2.8E-02	29	neurons, synaptic proteins
tan	338	M9A	1.6E-08	1.0E-05	29	oligodendrocytes
darkolivegreen	74	M2	6.7E-10	4.2E-07	29	synaptic proteins
greenyellow	394	M16A	5.6E-10	3.5E-07	28	neurons
midnightblue	282	M10A	6.2E-11	3.9E-08	28	synapse, Glu neurons
lightgreen	211	M10A	1.1E-09	6.8E-07	27	synapse, Glu neurons
violet	99	M15A	1.7E-04	ns	26	astrocytes
darkgreen	175	M18A	3.2E-04	ns	26	neurons, synaptic proteins
blue	1523	M15A	<1.0E-16	<1.0E-16	21	astrocytes
blue	1523	M10A	<1.0E-16	<1.0E-16	21	synapse, Glu neurons
red	847	M10A	<1.0E-16	<1.0E-16	21	synapse, Glu neurons
white	141	M19A	4.1E-04	ns	20	

ns=not significant

Supplementary Table S3: Genes in 21 modules and their kME values (module membership values)

geneName	Module	kME_NISC1	kME_NISC2
MARCH5	blue	-0.733	-0.922
MARCH9	blue	0.966	0.834
SEPT5	blue	0.909	0.944
SEPT6	blue	0.688	0.762
A1BG	blue	0.500	0.462
AAK1	blue	0.629	0.848
ABCA7	blue	0.861	0.740
ABCB7	blue	-0.811	-0.865
ABCC12	blue	0.724	0.850
ABCC4	blue	-0.674	-0.723
ABHD12	blue	0.878	0.873
ABI1	blue	-0.760	-0.801
ABL2	blue	-0.426	-0.589
ABLIM1	blue	-0.912	-0.805
AC002055.4	blue	0.602	0.689
AC004847.1	blue	0.907	0.887
AC004985.13	blue	0.854	0.781
AC005104.3	blue	-0.478	-0.564
AC005971.3	blue	-0.271	-0.621
AC007384.1	blue	-0.725	-0.745
AC008537.2	blue	0.542	0.307
AC010226.4	blue	-0.635	-0.835
AC011498.1	blue	0.818	0.765
AC015933.2	blue	-0.534	-0.636
AC016629.2	blue	0.841	0.478
AC016722.2	blue	0.782	0.754
AC017116.8	blue	0.468	0.805
AC023356.3	blue	0.322	0.571
AC024575.1	blue	0.673	0.872
AC027612.6	blue	0.840	0.742
AC062028.1	blue	0.956	0.809
AC084125.4	blue	0.801	0.823
AC098831.4	blue	-0.684	-0.424
AC114772.1	blue	-0.617	-0.839
AC129929.5	blue	0.577	0.328
AC147651.3	blue	0.144	0.709
ACAP3	blue	0.857	0.900
ACCS	blue	-0.349	-0.631
ACOT8	blue	0.897	0.897
ACRV1	blue	0.781	0.518
ACSF3	blue	0.809	0.689
ACTA1	blue	0.709	0.877
ACTR3C	blue	0.604	0.654
ADAM17	blue	-0.397	-0.597

ADAMTS13	blue	0.661	0.737
ADRA2C	blue	0.802	0.779
ADRBK1	blue	0.932	0.908
AGAP3	blue	0.965	0.975
AHCYL2	blue	-0.750	-0.809
AHNAK	blue	-0.550	-0.763
AHSA2	blue	-0.624	-0.732
AIM1	blue	-0.524	-0.571
AIP	blue	0.832	0.698
AKR1A1	blue	0.715	0.729
AL137059.1	blue	-0.724	-0.684
AL590822.1	blue	0.368	0.527
ALG2	blue	-0.602	-0.763
ALG3	blue	0.471	0.607
ALKBH6	blue	-0.360	-0.271
AMACR	blue	-0.620	-0.503
ANGPTL1	blue	-0.665	-0.365
ANKAR	blue	-0.605	-0.691
ANKRD13B	blue	0.819	0.897
ANKRD13D	blue	0.949	0.730
ANKRD34A	blue	0.788	0.786
ANKRD54	blue	0.896	0.711
ANO6	blue	-0.807	-0.826
ANTXR2	blue	-0.641	-0.748
AOX1	blue	-0.724	-0.721
AP000704.5	blue	0.389	0.297
AP001816.1	blue	0.912	0.737
AP1G2	blue	0.877	0.495
AP1S1	blue	0.866	0.794
AP2M1	blue	0.910	0.780
AP3D1	blue	0.863	0.665
APOA1BP	blue	0.835	0.798
APPL2	blue	-0.678	-0.621
APRT	blue	0.781	0.899
APTX	blue	0.600	0.427
AQR	blue	-0.847	-0.825
ARF1	blue	0.942	0.901
ARFGAP3	blue	-0.863	-0.705
ARFIP2	blue	0.907	0.773
ARFRP1	blue	0.894	0.544
ARHGAP31	blue	-0.708	-0.737
ARHGAP33	blue	0.565	0.813
ARHGAP42	blue	-0.758	-0.862
ARHGDIA	blue	0.933	0.815
ARHGDIG	blue	0.888	0.866
ARHGEF4	blue	0.921	0.924
ARHGEF6	blue	-0.766	-0.870

ARHGEF7-AS2	blue	0.615	0.421
ARID2	blue	-0.798	-0.901
ARL16	blue	0.773	0.755
ARL4D	blue	0.737	0.839
ARMC7	blue	0.886	0.896
ARPC1A	blue	0.711	0.869
ARPC2	blue	0.745	0.869
ARRB2	blue	0.914	0.959
ARRDC3	blue	-0.692	-0.492
ASB14	blue	-0.697	-0.550
ASCC3	blue	-0.885	-0.897
ASF1A	blue	-0.877	-0.793
ASGR1	blue	0.716	0.821
ASGR2	blue	0.708	0.483
ASIC2	blue	0.837	0.841
ASPH	blue	-0.734	-0.805
ASPHD1	blue	0.607	0.865
ASPSCR1	blue	0.591	0.575
ASS1	blue	0.764	0.776
ASTL	blue	0.680	0.756
ATAD2B	blue	-0.882	-0.746
ATF1	blue	-0.653	-0.641
ATF5	blue	0.800	0.681
ATG16L2	blue	0.764	0.641
ATG4D	blue	0.863	0.682
ATOX1	blue	0.479	0.559
ATP10D	blue	-0.792	-0.866
ATP11C	blue	-0.945	-0.840
ATP5G1	blue	0.589	0.896
ATP5SL	blue	0.728	0.744
ATP6AP1	blue	0.810	0.746
ATP6V0A2	blue	-0.677	-0.898
ATP6V0B	blue	0.956	0.960
ATXN7	blue	-0.690	-0.824
ATXN7L2	blue	0.697	0.463
B3GALT6	blue	0.506	0.890
B3GNTL1	blue	0.933	0.744
B4GALT2	blue	0.804	0.847
B4GALT4	blue	-0.667	-0.814
B9D2	blue	0.906	0.723
BABAM1	blue	0.937	0.875
BAIAP2	blue	0.811	0.866
BAP1	blue	0.920	0.936
BCDIN3D	blue	0.841	0.581
BCKDK	blue	0.777	0.613
BCL2	blue	-0.872	-0.760
BCL2L2	blue	0.729	0.711

BCL7B	blue	0.866	0.726
BDH2	blue	-0.662	-0.690
BDNF-AS1	blue	-0.424	-0.348
BEAN1	blue	0.846	0.913
BEND5	blue	0.909	0.823
BEND7	blue	-0.721	-0.588
BLVRB	blue	0.915	0.674
BMPR1A	blue	-0.548	-0.854
BOLA1	blue	0.820	0.707
BORA	blue	-0.637	-0.630
BRSK1	blue	0.946	0.936
BTAF1	blue	-0.866	-0.700
BTBD6	blue	0.847	0.920
C10orf11	blue	-0.620	-0.239
C10orf131	blue	-0.439	-0.666
C11orf54	blue	-0.818	-0.869
C11orf58	blue	-0.307	-0.508
C11orf84	blue	0.766	0.675
C11orf92	blue	-0.858	-0.700
C12orf10	blue	0.888	0.931
C14orf135	blue	-0.724	-0.838
C14orf149	blue	-0.643	-0.621
C14orf80	blue	0.812	0.813
C15orf23	blue	0.830	0.532
C15orf29	blue	-0.722	-0.815
C15orf59	blue	0.765	0.846
C16orf42	blue	0.887	0.800
C16orf45	blue	0.825	0.850
C16orf55	blue	0.512	0.747
C16orf57	blue	0.913	0.895
C16orf59	blue	0.751	0.554
C16orf7	blue	0.945	0.824
C16orf80	blue	0.486	0.746
C16orf95	blue	0.776	0.866
C17orf49	blue	0.746	0.506
C17orf81	blue	0.804	0.894
C17orf90	blue	0.856	0.674
C17orf96	blue	0.456	0.869
C19orf10	blue	0.705	0.818
C19orf21	blue	0.545	0.619
C19orf70	blue	0.860	0.955
C19orf76	blue	0.757	0.529
C19orf77	blue	0.396	0.809
C1orf145	blue	0.398	0.724
C1orf159	blue	0.855	0.706
C1orf216	blue	0.846	0.757
C1orf50	blue	0.554	0.555

C1QTNF2	blue	0.535	0.730
C20orf27	blue	0.930	0.830
C20orf94	blue	-0.886	-0.415
C21orf56	blue	0.772	0.437
C22orf29	blue	0.644	0.769
C2orf29	blue	-0.826	-0.800
C2orf49	blue	-0.819	-0.710
C3orf38	blue	-0.904	-0.564
C3orf64	blue	-0.410	-0.889
C3orf75	blue	0.814	0.591
C4orf21	blue	-0.672	-0.687
C5	blue	-0.726	-0.707
C5orf51	blue	-0.947	-0.923
C6orf106	blue	0.752	0.734
C7	blue	-0.665	-0.537
C7orf59	blue	0.872	0.834
C8G	blue	0.874	0.685
C8orf42	blue	-0.339	-0.616
C8orf55	blue	0.713	0.820
C9orf16	blue	0.592	0.715
C9orf169	blue	0.379	0.548
C9orf64	blue	-0.837	-0.659
C9orf69	blue	0.922	0.943
CA11	blue	0.725	0.860
CA4	blue	0.733	0.882
CACNA1F	blue	0.769	0.829
CACNB3	blue	0.875	0.950
CACNG7	blue	0.741	0.949
CALCRL	blue	-0.733	-0.578
CALM3	blue	0.813	0.760
CALY	blue	0.831	0.722
CAPN7	blue	-0.918	-0.852
CAPNS1	blue	0.682	0.862
CAPZB	blue	0.769	0.904
CBFB	blue	-0.821	-0.846
CBX6	blue	0.491	0.787
CCDC106	blue	0.847	0.888
CCDC122	blue	-0.695	-0.492
CCDC124	blue	0.969	0.834
CCDC136	blue	0.888	0.854
CCDC157	blue	0.839	0.657
CCDC28B	blue	0.686	0.457
CCDC33	blue	0.577	0.555
CCDC48	blue	0.824	0.835
CCDC56	blue	0.973	0.891
CCDC64	blue	0.906	0.784
CCDC82	blue	-0.790	-0.351

CCK	blue	0.451	0.801
CCKBR	blue	0.793	0.880
CCM2	blue	0.983	0.863
CCNC	blue	-0.593	-0.652
CCNG1	blue	-0.823	-0.817
CCNJ	blue	-0.776	-0.798
CCNK	blue	-0.769	-0.861
CCNT1	blue	-0.922	-0.688
CCT6B	blue	-0.636	-0.601
CCT7	blue	0.966	0.726
CD109	blue	-0.894	-0.833
CD163L1	blue	0.630	0.427
CD2BP2	blue	0.339	0.735
CD302	blue	-0.850	-0.797
CD320	blue	0.764	0.790
CD52	blue	0.412	0.861
CDC34	blue	0.898	0.845
CDCP2	blue	0.524	0.370
CDIPT	blue	0.975	0.930
CDK16	blue	0.866	0.906
CDK5	blue	0.943	0.964
CDK5R2	blue	0.907	0.827
CDKAL1	blue	-0.923	-0.800
CELF3	blue	0.709	0.957
CELF5	blue	0.570	0.892
CENPBD1	blue	0.703	0.514
CFL1	blue	0.761	0.905
CHCHD2	blue	0.892	0.849
CHCHD3	blue	0.650	0.701
CHCHD4	blue	0.501	0.838
CHCHD6	blue	0.916	0.963
CHD5	blue	0.830	0.936
CHGA	blue	0.643	0.705
CHIC2	blue	-0.512	-0.586
CHIT1	blue	0.594	0.516
CHMP1B	blue	0.709	0.531
CHMP6	blue	0.860	0.522
CHRM1	blue	0.835	0.833
CHST1	blue	0.654	0.886
CHST2	blue	0.613	0.761
CHSY1	blue	-0.658	-0.861
CHUK	blue	-0.790	-0.852
CIDECP	blue	0.896	0.819
CINP	blue	0.624	0.730
CIRH1A	blue	0.619	0.232
CISD3	blue	0.727	0.872
CLEC14A	blue	0.566	0.358

CLEC2L	blue	0.704	0.833
CLIC3	blue	0.623	0.360
CLIP3	blue	0.586	0.825
CLTB	blue	0.966	0.784
CNOT6	blue	-0.853	-0.819
CNOT6L	blue	-0.886	-0.955
CNPY3	blue	0.628	0.711
COBRA1	blue	0.897	0.784
COG3	blue	-0.686	-0.597
COL22A1	blue	0.308	0.558
COL5A3	blue	-0.457	-0.615
COMMD6	blue	0.733	0.546
COMMD7	blue	0.317	0.752
COMMD9	blue	0.577	0.846
COPB1	blue	-0.581	-0.616
CORO1A	blue	0.889	0.945
COX4I1	blue	0.874	0.805
COX6B1	blue	0.813	0.704
CPLX1	blue	0.573	0.603
CPNE5	blue	0.780	0.890
CPNE6	blue	0.753	0.867
CPS1	blue	-0.382	-0.648
CREBZF	blue	-0.846	-0.643
CRHR1	blue	0.963	0.854
CRIP2	blue	0.953	0.850
CRYGN	blue	0.474	0.785
CSGALNACT1	blue	-0.255	-0.650
CSNK1A1L	blue	-0.696	-0.697
CSNK1G2	blue	0.895	0.850
CSNK2A2	blue	0.960	0.433
CTA-250D10.15	blue	0.692	0.772
CTAGE1	blue	-0.746	-0.479
CTD-2562J17.7	blue	0.827	0.824
CTD-2653M23.2	blue	-0.596	-0.464
CTDSPL2	blue	-0.930	-0.783
CTNNBIP1	blue	0.801	0.791
CTNND2	blue	0.828	0.470
CTSZ	blue	0.641	0.463
CTU2	blue	0.843	0.899
CTXN1	blue	0.437	0.814
CUTA	blue	0.934	0.903
CUTC	blue	-0.420	-0.517
CXXC5	blue	0.592	0.907
CYC1	blue	0.928	0.807
CYP3A43	blue	-0.668	-0.561
CYTH2	blue	0.547	0.614
DBNDD1	blue	0.774	0.843

DBNL	blue	0.926	0.901
DDA1	blue	0.703	0.679
DDN	blue	0.548	0.861
DDRGK1	blue	0.873	0.838
DDX31	blue	-0.639	-0.637
DDX41	blue	0.940	0.954
DDX47	blue	-0.788	-0.418
DDX49	blue	0.932	0.819
DDX5	blue	-0.956	-0.868
DDX58	blue	-0.958	-0.726
DDX60	blue	-0.487	-0.797
DEAF1	blue	0.995	0.697
DEDD2	blue	0.561	0.801
DENND4C	blue	-0.846	-0.868
DEPDC1	blue	-0.755	-0.355
DERA	blue	-0.847	-0.691
DGCR6	blue	0.802	0.694
DGCR6L	blue	0.927	0.826
DGKZ	blue	0.933	0.919
DHDH	blue	0.721	0.816
DIS3	blue	-0.816	-0.877
DLK2	blue	0.899	0.927
DMWD	blue	0.834	0.866
DNA2	blue	-0.606	-0.443
DNAL4	blue	0.671	0.618
DNASE1L1	blue	0.490	0.709
DNMT1	blue	0.660	0.586
DOHH	blue	0.719	0.906
DOK3	blue	0.728	0.490
DOK4	blue	0.816	0.870
DPF1	blue	0.757	0.905
DPY30	blue	0.595	0.600
DRAM2	blue	-0.612	-0.490
DRAP1	blue	0.663	0.868
DRD2	blue	0.698	0.583
DSC2	blue	-0.761	-0.732
DTNB	blue	0.952	0.878
DTX1	blue	0.703	0.821
DUSP2	blue	0.811	0.896
DUSP8	blue	0.655	0.788
DYNLL1	blue	0.618	0.825
DYRK1B	blue	0.853	0.897
E2F1	blue	0.789	0.724
E4F1	blue	0.838	0.647
EBNA1BP2	blue	0.826	0.883
EBP	blue	0.879	0.720
ECEL1P2	blue	0.417	0.477

ECH1	blue	0.581	0.588
ECHS1	blue	0.752	0.842
ECSIT	blue	0.952	0.914
EDEM1	blue	-0.657	-0.779
EDF1	blue	0.768	0.698
EED	blue	-0.361	-0.513
EEF1A2	blue	0.960	0.790
EEF2	blue	0.921	0.923
EEFSEC	blue	0.830	0.525
EGFL7	blue	0.909	0.679
EGLN2	blue	0.939	0.913
EHHADH	blue	-0.773	-0.885
EHMT2	blue	0.910	0.852
EIF2AK3	blue	-0.829	-0.701
EIF2B3	blue	0.748	0.792
EIF2C4	blue	-0.789	-0.692
EIF3H	blue	0.546	0.691
EIF3I	blue	0.917	0.875
EIF3K	blue	0.815	0.796
EIF4EBP2	blue	-0.875	-0.895
EIF5AL1	blue	0.938	0.643
EIF6	blue	0.946	0.794
ELP4	blue	-0.754	-0.477
EMID2	blue	0.816	0.915
EML4	blue	-0.833	-0.885
EML5	blue	-0.490	-0.596
EPS8	blue	-0.749	-0.810
ERAL1	blue	0.859	0.908
ERBB2IP	blue	-0.816	-0.913
ERCC1	blue	0.836	0.743
ERCC4	blue	-0.895	-0.682
ERGIC1	blue	0.543	0.780
ERI1	blue	-0.835	-0.802
ERI3	blue	0.969	0.826
ERO1LB	blue	-0.765	-0.856
ERP29	blue	0.888	0.850
ERRFI1	blue	-0.899	-0.792
EVL	blue	0.952	0.726
EXOSC5	blue	0.888	0.903
F12	blue	0.824	0.656
F2R	blue	-0.544	-0.298
F7	blue	0.788	0.858
FABP3	blue	0.630	0.751
FAF2	blue	-0.636	-0.712
FAHD1	blue	0.770	0.837
FAM100A	blue	0.908	0.859
FAM105B	blue	-0.873	-0.673

FAM114A2	blue	-0.915	-0.776
FAM116A	blue	-0.919	-0.876
FAM116B	blue	0.937	0.816
FAM127B	blue	0.761	0.781
FAM135A	blue	-0.805	-0.813
FAM158A	blue	0.971	0.839
FAM171B	blue	-0.821	-0.776
FAM174B	blue	0.803	0.870
FAM175A	blue	-0.842	-0.691
FAM189A1	blue	0.794	0.591
FAM189B	blue	0.901	0.737
FAM18A	blue	0.935	0.799
FAM198B	blue	-0.917	-0.861
FAM207A	blue	0.812	0.623
FAM208A	blue	-0.960	-0.730
FAM212A	blue	0.932	0.935
FAM219B	blue	0.641	0.490
FAM32A	blue	0.761	0.635
FAM35A	blue	-0.920	-0.686
FAM46C	blue	-0.526	-0.714
FAM48A	blue	-0.801	-0.848
FAM57B	blue	0.856	0.878
FAM58A	blue	0.872	0.792
FAM60A	blue	-0.518	-0.708
FAM64A	blue	0.628	0.572
FAM71E1	blue	0.868	0.855
FAM78A	blue	0.424	0.707
FAM83H	blue	0.611	0.411
FAM86DP	blue	0.818	0.058
FAM98C	blue	0.822	0.822
FANCA	blue	0.865	0.702
FANCB	blue	-0.832	-0.127
FANCC	blue	-0.388	-0.510
FANCM	blue	-0.687	-0.431
FASTK	blue	0.887	0.664
FBXL16	blue	0.879	0.902
FBXL19	blue	0.657	0.908
FBXL3	blue	-0.899	-0.662
FBXO10	blue	0.821	0.880
FBXO27	blue	0.752	0.782
FBXO32	blue	-0.568	-0.545
FBXO36	blue	-0.790	-0.757
FBXO4	blue	-0.293	-0.525
FBXO44	blue	0.952	0.897
FBXW5	blue	0.896	0.906
FBXW7	blue	0.620	0.591
FBXW9	blue	0.855	0.904

FCHO2	blue	-0.907	-0.916
FDX1L	blue	0.940	0.908
FEM1C	blue	-0.874	-0.839
FGD1	blue	0.822	0.677
FGD5-AS1	blue	-0.722	-0.547
FGF8	blue	0.826	0.575
FIGN	blue	-0.670	-0.617
FIS1	blue	0.555	0.733
FKBP14	blue	-0.714	-0.774
FKBP1A	blue	0.537	0.738
FKBP1A-SDCBP2	blue	-0.410	-0.636
FKBP2	blue	0.584	0.635
FKBP7	blue	-0.551	-0.799
FLAD1	blue	0.875	0.814
FLOT2	blue	0.873	0.820
FLYWCH2	blue	0.824	0.909
FMNL1	blue	0.843	0.979
FNDC3B	blue	-0.819	-0.729
FNDC5	blue	0.763	0.876
FNDC8	blue	0.518	0.746
FOXC2	blue	-0.672	-0.560
FOXD4L1	blue	0.470	0.455
FRS2	blue	-0.962	-0.821
FSD1	blue	0.925	0.944
FZD4	blue	-0.516	-0.808
FZD6	blue	-0.420	-0.711
G3BP1	blue	-0.870	-0.927
GABRA2	blue	-0.781	-0.707
GABRD	blue	0.908	0.850
GABRG1	blue	-0.791	-0.689
GALNT9	blue	0.928	0.917
GALR3	blue	0.770	0.535
GAP43	blue	0.852	0.783
GART	blue	-0.911	-0.804
GAS2	blue	-0.843	-0.688
GAS2L1	blue	0.730	0.651
GAS2L2	blue	0.719	0.423
GAS6	blue	0.849	0.717
GEMIN7	blue	0.615	0.804
GIPC1	blue	0.759	0.641
GIT1	blue	0.849	0.911
GK5	blue	-0.853	-0.732
GLTPD1	blue	0.759	0.784
GMDS	blue	0.747	0.832
GNB1L	blue	0.957	0.891
GNPDA1	blue	0.812	0.594
GNRH2	blue	0.903	0.701

GORAB	blue	-0.822	-0.851
GPATCH3	blue	0.297	0.763
GPC1	blue	0.881	0.720
GPC4	blue	-0.564	-0.758
GPR123	blue	0.933	0.936
GPR137	blue	0.952	0.919
GPR162	blue	0.816	0.894
GPS1	blue	0.826	0.885
GRAMD4	blue	0.604	0.612
GRASP	blue	0.859	0.692
GRK1	blue	0.623	0.685
GRK6	blue	0.845	0.909
GRM2	blue	0.804	0.903
GSG1	blue	0.292	0.722
GSTZ1	blue	0.465	0.612
GTF2F1	blue	0.980	0.694
GUK1	blue	0.946	0.836
GUSBP5	blue	0.511	0.840
H2AFY2	blue	0.786	0.607
HAGH	blue	0.926	0.903
HAS1	blue	0.444	0.706
HAUS6	blue	-0.913	-0.650
HBQ1	blue	0.477	0.560
HDAC5	blue	0.932	0.940
HDDC3	blue	0.422	0.702
HECTD3	blue	0.669	0.749
HERC4	blue	-0.730	-0.806
HEXIM2	blue	0.489	0.751
HIF1A	blue	-0.834	-0.895
HIST1H2BK	blue	0.385	0.643
HIST1H3A	blue	0.568	0.550
HK3	blue	0.675	0.513
HKR1	blue	0.855	0.537
HMBS	blue	0.454	0.634
HMGN1	blue	-0.854	-0.874
HMHA1	blue	0.566	0.801
HMOX2	blue	0.940	0.850
HN1	blue	0.649	0.854
HNF1A	blue	0.827	0.782
HNRNPH1	blue	-0.509	-0.822
HNRNPU	blue	-0.876	-0.631
HNRNPU-AS1	blue	-0.817	-0.925
HP1BP3	blue	-0.908	-0.723
HPCA	blue	0.733	0.923
HRAS	blue	0.917	0.757
HRH2	blue	0.772	0.757
HS6ST1	blue	0.761	0.689

HSD17B12	blue	-0.894	-0.637
HSPBP1	blue	0.951	0.942
HTR5BP	blue	-0.349	-0.902
HYAL3	blue	0.699	0.737
ICAM5	blue	0.861	0.792
IDE	blue	-0.826	-0.795
IER5L	blue	0.419	0.713
IFT140	blue	0.757	0.273
IGBP1	blue	0.887	0.727
IGFBP6	blue	0.781	0.910
IGLV1-51	blue	0.838	0.687
IGSF21	blue	0.796	0.950
IKZF2	blue	-0.893	-0.906
IL34	blue	0.744	0.930
IL6ST	blue	-0.925	-0.939
IMPACT	blue	-0.845	-0.544
IMPDH1	blue	0.936	0.915
ING4	blue	0.530	0.871
INO80D	blue	-0.649	-0.720
INPP5E	blue	0.911	0.469
INTS6	blue	-0.787	-0.308
IPMK	blue	-0.831	-0.909
IPO8	blue	-0.677	-0.666
IRAK1	blue	0.310	0.595
IRF2BP1	blue	0.628	0.750
ISG15	blue	0.927	0.585
ITGB1BP2	blue	-0.508	-0.573
ITPA	blue	0.143	0.785
ITPK1	blue	0.730	0.941
ITPKA	blue	0.736	0.962
JAG2	blue	0.879	0.823
JAK2	blue	-0.789	-0.859
JAKMIP1	blue	0.930	0.800
JMY	blue	-0.780	-0.621
JPH3	blue	0.906	0.885
JRKL	blue	-0.765	-0.820
JTB	blue	0.880	0.698
KAL1	blue	-0.797	-0.872
KANSL1L	blue	-0.938	-0.951
KAT2A	blue	0.896	0.636
KAT2B	blue	-0.892	-0.890
KATNAL2	blue	-0.685	-0.501
KAZALD1	blue	0.494	0.695
KBTBD12	blue	-0.485	-0.859
KCNF1	blue	0.801	0.886
KCNH3	blue	0.969	0.934
KCNJ4	blue	0.755	0.884

KCNK12	blue	0.817	0.474
KCNK3	blue	0.686	0.868
KCNMB4	blue	0.439	0.554
KCNN1	blue	0.969	0.970
KCTD17	blue	0.945	0.942
KDELC2	blue	-0.832	-0.891
KIAA0907	blue	-0.775	-0.691
KIAA1430	blue	-0.905	-0.575
KIAA1967	blue	0.770	0.755
KIAA2013	blue	0.405	0.636
KIF17	blue	0.731	0.806
KIFC2	blue	0.867	0.860
KIFC3	blue	0.817	0.846
KLF16	blue	0.189	0.755
KLHDC3	blue	0.948	0.892
KLHDC8B	blue	0.913	0.950
KLHL15	blue	-0.912	-0.810
KLHL22	blue	0.843	0.881
KLHL25	blue	0.633	0.503
KLHL31	blue	-0.849	-0.800
KLK7	blue	0.253	0.753
KLKB1	blue	-0.513	-0.397
KPNA5	blue	-0.710	-0.737
KPTN	blue	0.919	0.857
KREMEN2	blue	0.866	0.638
KRT3	blue	0.741	0.551
KRT7	blue	0.862	0.757
LACTB2	blue	-0.919	-0.525
LAGE3	blue	0.798	0.884
LAMTOR1	blue	0.866	0.738
LARP4	blue	-0.936	-0.913
LARS	blue	-0.693	-0.691
LATS1	blue	-0.887	-0.849
LDOC1	blue	0.859	0.778
LEO1	blue	0.522	0.596
LGALS1	blue	0.870	0.721
LIMD2	blue	0.884	0.604
LIN7C	blue	-0.865	-0.914
LINC00205	blue	0.423	0.463
LINC00539	blue	-0.706	-0.594
LIX1	blue	-0.628	-0.649
LL0XNC01-250H1	blue	0.654	0.612
LMO1	blue	0.799	0.511
LMO4	blue	0.636	0.822
LOC678655	blue	0.738	0.509
LONP2	blue	-0.619	-0.772
LONRF1	blue	-0.733	-0.683

LPAR4	blue	-0.722	-0.470
LPHN1	blue	0.820	0.950
LPO	blue	0.512	0.615
LRCH2	blue	-0.902	-0.712
LRPAP1	blue	0.793	0.816
LRRC37A5P	blue	0.401	0.517
LRRC37BP1	blue	-0.494	-0.418
LRRC4	blue	0.737	0.810
LRRC45	blue	0.836	0.669
LRRC4B	blue	0.864	0.937
LRRC56	blue	0.801	0.884
LRRC61	blue	0.870	0.834
LRRTM1	blue	0.594	0.835
LRSAM1	blue	0.964	0.779
LRWD1	blue	0.733	0.743
LSM4	blue	0.501	0.656
LSMD1	blue	0.915	0.894
LTBP4	blue	0.924	0.885
LYPLA2	blue	0.905	0.675
LYZL4	blue	0.477	0.646
MAD1L1	blue	0.847	0.653
MAFG	blue	0.835	0.615
MAGI2-AS3	blue	-0.952	-0.850
MAGIX	blue	0.770	0.849
MAML2	blue	-0.683	-0.781
MAP1LC3A	blue	0.850	0.745
MAP2K2	blue	0.815	0.918
MAP3K10	blue	0.904	0.922
MAP7D1	blue	0.588	0.820
MAPK11	blue	0.969	0.830
MAPK8IP1	blue	0.591	0.910
MAPK8IP2	blue	0.932	0.844
MAPRE3	blue	0.950	0.894
MAPT	blue	0.785	0.942
MARK4	blue	0.698	0.605
MASP2	blue	-0.600	-0.548
MAZ	blue	0.867	0.677
MBD3	blue	0.868	0.652
MBLAC1	blue	0.834	0.706
MCART6	blue	-0.698	-0.673
MCAT	blue	0.869	0.938
MCCC2	blue	-0.640	-0.784
MCOLN1	blue	0.733	0.840
MCRS1	blue	0.810	0.853
MEA1	blue	0.888	0.883
MECR	blue	0.956	0.899
MED17	blue	-0.519	-0.837

MED8	blue	0.581	0.699
MEIS3	blue	0.836	0.904
MEIS3P1	blue	0.661	0.868
METTL11A	blue	0.932	0.625
METTL14	blue	-0.907	-0.745
METTL17	blue	-0.537	-0.533
MEX3A	blue	-0.677	-0.500
MFSD10	blue	0.811	0.629
MFSD12	blue	0.858	0.543
MFSD3	blue	0.884	0.777
MFSD8	blue	-0.891	-0.664
MGAT4B	blue	0.844	0.783
MGST3	blue	0.606	0.634
MIER3	blue	-0.904	-0.758
MIR497HG	blue	-0.581	-0.588
MKLN1	blue	-0.897	-0.911
MLF2	blue	0.911	0.891
MLLT10	blue	-0.294	-0.473
MLST8	blue	0.914	0.815
MMP17	blue	0.901	0.917
MOB1A	blue	-0.875	-0.813
MON1A	blue	0.964	0.946
MPG	blue	0.689	0.766
MPND	blue	0.925	0.939
MRE11A	blue	-0.731	-0.759
MRP63	blue	0.465	0.730
MRPL20	blue	0.843	0.638
MRPL21	blue	0.839	0.543
MRPL23	blue	0.777	0.870
MRPL24	blue	0.710	0.864
MRPL28	blue	0.933	0.890
MRPL39	blue	-0.202	-0.761
MRPL4	blue	0.840	0.804
MRPL49	blue	0.681	0.526
MRPL54	blue	0.886	0.716
MRPL55	blue	0.897	0.918
MRPL9	blue	0.472	0.787
MRPS11	blue	0.971	0.797
MRPS12	blue	0.767	0.872
MRPS34	blue	0.885	0.871
MRTO4	blue	0.907	0.688
MSANTD1	blue	0.714	0.599
MSANTD4	blue	-0.847	-0.849
MSC	blue	0.441	0.711
MSRA	blue	0.467	0.823
MSTO1	blue	0.641	0.480
MTCH1	blue	0.934	0.777

MTCP1	blue	-0.331	-0.510
MTHFD2L	blue	-0.763	-0.722
MTM1	blue	-0.931	-0.925
MTMR8	blue	-0.620	-0.325
MTR	blue	-0.701	-0.569
MUS81	blue	0.844	0.800
MUSK	blue	-0.757	-0.441
MUT	blue	-0.338	-0.893
MVD	blue	0.880	0.711
MXI1	blue	-0.943	-0.829
MYBL1	blue	-0.865	-0.594
MYCBP	blue	-0.541	-0.783
MYL12B	blue	0.926	0.920
MYL6B	blue	0.828	0.918
MYOT	blue	-0.689	-0.635
MZT2A	blue	0.779	0.672
NAA60	blue	0.636	0.884
NANOS3	blue	0.239	0.698
NAPA	blue	0.942	0.913
NARFL	blue	0.887	0.709
NARG2	blue	-0.959	-0.863
NAT6	blue	0.881	0.715
NCBP2-AS1	blue	-0.843	-0.757
NCOA3	blue	-0.911	-0.715
NCS1	blue	0.888	0.819
NDUFA7	blue	0.781	0.793
NDUFB11	blue	0.967	0.882
NDUFB7	blue	0.792	0.862
NDUFS8	blue	0.968	0.742
NEBL	blue	-0.900	-0.691
NECAB2	blue	0.677	0.853
NEDD1	blue	-0.878	-0.860
NEDD4	blue	-0.820	-0.826
NELF	blue	0.827	0.796
NEURL	blue	0.905	0.884
NEUROD2	blue	0.649	0.528
NFKBIE	blue	0.740	0.866
NGFRAP1	blue	0.950	0.849
NHLRC2	blue	-0.854	-0.912
NHP2L1	blue	0.890	0.739
NKD2	blue	0.578	0.415
NMD3	blue	-0.854	-0.752
NOB1	blue	0.715	0.484
NOC2L	blue	0.929	0.809
NOC3L	blue	-0.737	-0.782
NOG	blue	0.708	0.709
NOS2	blue	0.640	0.815

NOSIP	blue	0.882	0.660
NOXO1	blue	0.532	0.750
NPAS1	blue	0.638	0.831
NPAT	blue	-0.915	-0.883
NPM3	blue	0.803	0.921
NPPA	blue	0.684	0.754
NRGN	blue	0.842	0.892
NRSN2	blue	0.875	0.968
NT5C3L	blue	0.968	0.889
NTHL1	blue	0.829	0.855
NUCB1	blue	0.857	0.810
NUDT14	blue	0.936	0.798
NUDT2	blue	0.902	0.819
NUDT5	blue	-0.618	-0.476
NUDT6	blue	-0.603	-0.473
NUMBL	blue	0.833	0.840
NUP107	blue	-0.844	-0.707
NUP205	blue	-0.774	-0.685
NUP54	blue	-0.801	-0.633
NUTF2	blue	0.878	0.662
NYAP1	blue	0.773	0.839
OAZ1	blue	0.840	0.882
OCEL1	blue	0.521	0.714
ODF3L1	blue	0.646	0.336
OGFRL1	blue	-0.927	-0.796
OLFM1	blue	0.758	0.883
OMA1	blue	-0.815	-0.828
OPN1SW	blue	0.507	0.767
OR13J1	blue	0.968	0.687
ORAI2	blue	0.508	0.649
ORMDL2	blue	-0.572	-0.505
OSBP2	blue	0.674	0.904
OSBPL2	blue	-0.588	-0.606
OSBPL7	blue	0.636	0.571
OSCP1	blue	0.514	0.634
OSGIN2	blue	-0.790	-0.791
OTUB1	blue	0.936	0.971
P2RX5	blue	0.820	0.698
P2RY11	blue	0.819	0.680
PABPC5	blue	-0.799	-0.775
PAFAH1B3	blue	0.940	0.799
PAM16	blue	0.909	0.702
PANK2	blue	0.585	0.715
PAPD4	blue	-0.963	-0.640
PARD6A	blue	0.934	0.924
PARP6	blue	0.858	0.899
PATL1	blue	-0.724	-0.785

PBRM1	blue	-0.886	-0.789
PCDH9-AS3	blue	-0.577	-0.479
PCNT	blue	0.309	0.382
PCYT2	blue	0.810	0.843
PDCD1LG2	blue	-0.733	-0.587
PDE3A	blue	-0.590	-0.810
PDE3B	blue	-0.772	-0.882
PDE5A	blue	-0.772	-0.780
PDE6C	blue	-0.729	-0.810
PDE7A	blue	-0.513	-0.484
PDGFC	blue	-0.688	-0.790
PDIA2	blue	0.436	0.595
PDRG1	blue	0.680	0.584
PDS5A	blue	-0.906	-0.497
PDZD11	blue	0.918	0.863
PDZD4	blue	0.819	0.907
PDZD7	blue	0.887	0.832
PEA15	blue	0.408	0.602
PEX1	blue	-0.823	-0.665
PEX16	blue	0.784	0.727
PFDN1	blue	0.811	0.870
PFDN5	blue	0.951	0.545
PFKFB2	blue	-0.775	-0.864
PGM2	blue	-0.684	-0.633
PGM3	blue	-0.730	-0.941
PHB2	blue	0.714	0.748
PHF10	blue	-0.822	-0.804
PHF11	blue	-0.893	-0.772
PHKG2	blue	0.798	0.896
PI4K2A	blue	0.868	0.755
PI4K2B	blue	-0.611	-0.700
PIGQ	blue	0.938	0.649
PIGW	blue	-0.838	-0.549
PIK3C2A	blue	-0.960	-0.809
PIK3R2	blue	0.746	0.979
PIM2	blue	0.588	0.711
PIN1	blue	0.851	0.857
PIP5K1C	blue	0.774	0.893
PIP5KL1	blue	0.796	0.708
PKMYT1	blue	0.618	0.502
PKN2	blue	-0.971	-0.818
PLAC2	blue	0.792	0.507
PLAC9	blue	0.729	0.483
PLB1	blue	0.633	0.673
PLCH2	blue	0.751	0.940
PLD6	blue	0.731	0.650
PLEKHJ1	blue	0.905	0.747

PMEPA1	blue	0.670	0.563
PMS1	blue	-0.761	-0.636
PMS2CL	blue	0.845	0.408
PNKP	blue	0.783	0.517
PNMA5	blue	0.463	0.699
PNMAL2	blue	0.947	0.932
PNPLA5	blue	0.758	0.620
POC1B	blue	-0.898	-0.827
PODXL2	blue	0.875	0.805
POLA1	blue	-0.893	-0.663
POLDIP2	blue	0.916	0.766
POLE4	blue	0.448	0.882
POLI	blue	-0.859	-0.748
POLK	blue	-0.949	-0.721
POLR2E	blue	0.916	0.900
POLR2F	blue	0.719	0.605
POLR2I	blue	0.810	0.742
POLR3H	blue	0.848	0.938
POP7	blue	0.610	0.813
POT1	blue	-0.854	-0.638
PP2D1	blue	-0.589	-0.635
PPFIA3	blue	0.941	0.863
PPIA	blue	0.792	0.879
PPM1J	blue	0.911	0.679
PPM1N	blue	0.670	0.464
PPP1CA	blue	0.725	0.858
PPP1R12C	blue	0.626	0.852
PPP1R1A	blue	0.467	0.836
PPP1R37	blue	0.891	0.943
PPP1R3B	blue	-0.811	-0.869
PPP1R3F	blue	0.952	0.864
PPP1R7	blue	0.715	0.907
PPP1R9B	blue	0.727	0.870
PPP2R5B	blue	0.833	0.782
PPP6R1	blue	0.922	0.962
PPP6R2	blue	0.827	0.573
PPPDE1	blue	-0.749	-0.727
PQLC1	blue	0.900	0.887
PRCP	blue	-0.710	-0.756
PRDX5	blue	0.961	0.900
PREX2	blue	-0.724	-0.768
PRKAA1	blue	-0.791	-0.746
PRKCG	blue	0.580	0.820
PRKCZ	blue	0.848	0.848
PRKD3	blue	-0.739	-0.820
PRKG1	blue	-0.884	-0.774
PRMT3	blue	-0.856	-0.784

PRPF39	blue	-0.895	-0.589
PRPF6	blue	0.870	0.599
PRRC1	blue	-0.876	-0.930
PRRG2	blue	0.547	0.610
PRRT3	blue	0.629	0.895
PRSS3	blue	0.948	0.794
PRSS42	blue	-0.603	-0.528
PSD	blue	0.894	0.902
PSMA7	blue	0.919	0.925
PSMB3	blue	0.962	0.764
PSMB4	blue	0.910	0.597
PSMB6	blue	0.934	0.910
PSMB7	blue	0.948	0.613
PSMC3	blue	0.948	0.856
PSMC5	blue	0.946	0.631
PSMD7	blue	0.622	0.599
PSMD8	blue	0.689	0.858
PSMG3	blue	0.954	0.953
PTCD3	blue	-0.794	-0.886
PTGES2	blue	0.920	0.975
PTMS	blue	0.770	0.906
PTOV1	blue	0.926	0.805
PTPRG	blue	-0.565	-0.871
PTRH2	blue	0.701	0.687
PUSL1	blue	0.504	0.708
PYCRL	blue	0.894	0.722
PYGO1	blue	-0.764	-0.818
QSER1	blue	-0.934	-0.874
R3HCC1	blue	0.540	0.727
R3HDM2	blue	0.355	0.599
RAB11FIP3	blue	0.874	0.754
RAB26	blue	0.950	0.788
RAB2B	blue	-0.821	-0.612
RAB36	blue	0.808	0.770
RAB3A	blue	0.895	0.855
RAB4B	blue	0.707	0.784
RABEPK	blue	0.950	0.845
RABGGTA	blue	0.801	0.804
RABL5	blue	0.822	0.934
RAD51B	blue	-0.766	-0.504
RAMP2	blue	0.546	0.476
RAPGEF4	blue	0.470	0.325
RAPGEFL1	blue	0.694	0.919
RARA	blue	0.390	0.430
RASGEF1A	blue	0.910	0.834
RASGEF1C	blue	0.704	0.823
RASL10A	blue	0.765	0.808

RASL10B	blue	0.696	0.928
RASSF7	blue	0.910	0.896
RASSF8	blue	-0.823	-0.795
RBAK	blue	-0.719	-0.602
RBBP9	blue	-0.769	-0.846
RBM33	blue	-0.413	-0.502
RBMS3	blue	-0.603	-0.693
RBMX	blue	-0.650	-0.651
RBP4	blue	0.807	0.882
RCL1	blue	-0.433	-0.850
RCOR1	blue	-0.397	-0.741
RDH11	blue	-0.527	-0.441
RECK	blue	-0.368	-0.592
RECQL4	blue	0.910	0.801
REEP2	blue	0.890	0.951
REXO1	blue	0.932	0.803
REXO4	blue	0.619	0.525
RFC2	blue	0.842	0.829
RGS12	blue	0.492	0.876
RGS14	blue	0.480	0.883
RHBDD2	blue	0.987	0.931
RHOBTB2	blue	0.779	0.936
RHOBTB3	blue	-0.782	-0.715
RICTOR	blue	-0.886	-0.680
RIMKLB	blue	-0.620	-0.789
RNF10	blue	0.955	0.931
RNF103	blue	-0.906	-0.852
RNF112	blue	0.966	0.847
RNF113A	blue	0.703	0.691
RNF157	blue	0.851	0.774
RNF25	blue	0.834	0.868
RNF32	blue	-0.897	-0.683
RNFT2	blue	0.864	0.836
RNMTL1	blue	0.924	0.777
ROGDI	blue	0.706	0.889
RORA	blue	-0.764	-0.892
RP11-1134I14.4	blue	0.456	0.810
RP11-139J15.2	blue	-0.482	-0.456
RP11-152N13.12	blue	-0.735	-0.728
RP11-168G16.1	blue	0.707	0.519
RP11-178A10.1	blue	0.547	0.776
RP11-18C24.6	blue	0.766	0.550
RP11-273B20.1	blue	0.392	0.260
RP11-279F6.1	blue	0.762	0.713
RP11-27I1.4	blue	-0.744	-0.603
RP11-298P3.4	blue	-0.660	-0.475
RP11-307C12.11	blue	0.734	0.486

RP11-316M21.6	blue	-0.484	-0.528
RP11-33B1.1	blue	-0.677	-0.538
RP11-33N16.1	blue	0.567	0.461
RP11-383C5.4	blue	-0.751	-0.483
RP11-465L10.7	blue	0.378	0.363
RP11-513M16.2	blue	-0.850	-0.580
RP11-519G16.1	blue	-0.569	-0.742
RP11-522N14.1	blue	0.696	0.487
RP11-548B3.3	blue	0.779	0.879
RP11-574F21.2	blue	-0.332	-0.572
RP11-598F7.4	blue	0.619	0.680
RP11-656E20.4	blue	-0.218	-0.674
RP11-820L6.1	blue	-0.643	-0.517
RP13-1039J1.2	blue	0.740	0.423
RP1-63G5.5	blue	0.722	0.636
RP3-355L5.4	blue	-0.619	-0.603
RP3-400N23.6	blue	-0.350	-0.456
RP4-785G19.5	blue	-0.458	-0.769
RP5-842K24.2	blue	-0.864	-0.779
RPL19	blue	0.717	0.611
RPL22L1	blue	-0.796	-0.709
RPL23	blue	0.461	0.581
RPL26	blue	0.431	0.602
RPL29	blue	0.786	0.698
RPL3	blue	0.881	0.775
RPL32	blue	0.575	0.561
RPL36	blue	0.638	0.531
RPL41	blue	0.468	0.691
RPL5	blue	0.590	0.462
RPL7A	blue	0.943	0.684
RPS12	blue	0.826	0.491
RPS19BP1	blue	0.738	0.832
RPS4X	blue	0.740	0.564
RPS6KA4	blue	0.702	0.847
RPS6KA5	blue	-0.769	-0.772
RPSAP14	blue	0.736	0.745
RPUSD1	blue	0.927	0.802
RRAD	blue	0.195	0.611
RRN3P1	blue	-0.754	-0.681
RRP1	blue	0.949	0.702
RRP12	blue	0.888	0.827
RRP36	blue	0.674	0.803
RSBN1	blue	-0.746	-0.636
RSPH9	blue	0.468	0.619
RTBDN	blue	0.872	0.888
RTN2	blue	0.892	0.923
RTN4RL2	blue	0.811	0.841

RUNDC3A	blue	0.937	0.884
RUNX1	blue	-0.674	-0.614
RUVBL1	blue	0.913	0.550
RUVBL2	blue	0.891	0.863
SAC3D1	blue	0.833	0.803
SAMD10	blue	0.800	0.902
SBK1	blue	0.485	0.742
SCAND1	blue	0.455	0.742
SCHIP1	blue	-0.447	-0.652
SCML1	blue	-0.793	-0.868
SCML4	blue	0.688	0.489
SCN1B	blue	0.591	0.369
SCO2	blue	0.903	0.901
SCTR	blue	0.681	0.500
SDHAF1	blue	0.546	0.679
SEMA6B	blue	0.818	0.887
SENP1	blue	-0.878	-0.815
SEPHS1	blue	0.662	0.538
SEPW1	blue	0.557	0.927
SERGEF	blue	0.843	0.757
SERPINB8	blue	-0.784	-0.756
SERPINB9	blue	-0.585	-0.755
SETD9	blue	-0.407	-0.592
SEZ6L2	blue	0.784	0.885
SF3B5	blue	0.886	0.590
SGSM2	blue	0.915	0.857
SH2D3C	blue	0.898	0.590
SH3BGRL3	blue	0.620	0.892
SH3BP1	blue	0.548	0.805
SH3GL1	blue	0.726	0.586
SIL1	blue	0.868	0.677
SIX4	blue	-0.366	-0.704
SLAIN2	blue	-0.740	-0.951
SLC10A7	blue	-0.894	-0.881
SLC18B1	blue	-0.724	-0.698
SLC19A2	blue	-0.602	-0.857
SLC1A6	blue	0.961	0.907
SLC25A11	blue	0.832	0.846
SLC25A19	blue	0.827	0.773
SLC25A22	blue	0.961	0.826
SLC25A23	blue	0.798	0.853
SLC25A42	blue	0.819	0.922
SLC25A45	blue	0.755	0.752
SLC2A12	blue	-0.579	-0.760
SLC2A6	blue	0.945	0.882
SLC2A8	blue	0.751	0.506
SLC30A1	blue	-0.740	-0.837

SLC30A10	blue	-0.579	-0.720
SLC30A2	blue	0.940	0.850
SLC30A7	blue	-0.976	-0.901
SLC35B1	blue	0.779	0.764
SLC35G6	blue	0.773	0.573
SLC38A2	blue	-0.848	-0.568
SLC39A3	blue	0.912	0.855
SLC45A1	blue	0.902	0.829
SLC4A3	blue	0.902	0.912
SLC4A5	blue	-0.675	-0.704
SLC9A3R2	blue	0.721	0.563
SLC9A5	blue	0.835	0.487
SMAD5	blue	-0.933	-0.948
SMAD9	blue	-0.831	-0.617
SMARCA4	blue	0.939	0.747
SMC5	blue	-0.930	-0.798
SMCHD1	blue	-0.900	-0.870
SMEK1	blue	-0.854	-0.784
SMEK2	blue	-0.873	-0.700
SMPDL3A	blue	-0.632	-0.827
SMURF2	blue	-0.759	-0.799
SNAI3	blue	0.777	0.936
SNAPC2	blue	0.739	0.848
SNCG	blue	0.927	0.902
SNHG1	blue	-0.720	-0.699
SNRNP25	blue	0.914	0.853
SNRPD2	blue	0.846	0.625
SNRPD3	blue	0.489	0.520
SNUPN	blue	0.704	0.645
SNX21	blue	0.729	0.841
SNX6	blue	-0.811	-0.404
SOAT1	blue	-0.697	-0.854
SOHLH1	blue	0.881	0.898
SORBS1	blue	-0.638	-0.705
SOX5	blue	-0.683	-0.742
SOX6	blue	-0.851	-0.505
SP140L	blue	-0.545	-0.713
SP3	blue	-0.927	-0.797
SP4	blue	-0.812	-0.718
SPAG7	blue	0.762	0.866
SPATA2L	blue	0.625	0.626
SPATA5	blue	-0.680	-0.638
SPDEF	blue	0.838	0.633
SPEF1	blue	0.743	0.927
SPHK2	blue	0.746	0.910
SPINK13	blue	-0.878	-0.711
SPIRE2	blue	0.902	0.871

SPPL2A	blue	-0.490	-0.731
SPTLC3	blue	-0.824	-0.782
SPTY2D1	blue	-0.791	-0.722
SRC	blue	0.800	0.758
SRCRB4D	blue	0.689	0.693
SRM	blue	0.874	0.685
SRP54	blue	-0.769	-0.740
SRSF2	blue	-0.590	-0.447
SSBP4	blue	0.776	0.807
SSFA2	blue	-0.706	-0.730
SSNA1	blue	0.723	0.748
SSR2	blue	0.481	0.656
SSR4	blue	0.797	0.725
ST3GAL2	blue	0.669	0.895
ST6GALNAC6	blue	0.818	0.855
STAC	blue	0.667	0.744
STAT5B	blue	-0.308	-0.554
STK16	blue	0.809	0.897
STK25	blue	0.976	0.945
STK32C	blue	0.847	0.971
STK38L	blue	-0.777	-0.899
STMN3	blue	0.932	0.877
STOML1	blue	0.910	0.899
STRN4	blue	0.749	0.772
STUB1	blue	0.917	0.759
STX1A	blue	0.906	0.949
STX8	blue	0.759	0.842
STYX	blue	-0.951	-0.884
SUPT4H1	blue	0.802	0.928
SURF2	blue	0.698	0.869
SUV420H1	blue	-0.880	-0.786
SUZ12	blue	-0.866	-0.712
SWT1	blue	-0.770	-0.830
SYDE2	blue	-0.698	-0.463
SYN1	blue	0.888	0.767
SYNDIG1	blue	0.461	0.804
SYNGR3	blue	0.954	0.886
SYP	blue	0.674	0.847
SYP-AS1	blue	0.391	0.534
SYT12	blue	0.697	0.878
SYT3	blue	0.891	0.895
SYT5	blue	0.958	0.905
TACC3	blue	0.504	0.600
TADA3	blue	0.859	0.746
TAF1A	blue	-0.905	-0.610
TAGLN3	blue	0.878	0.894
TANK	blue	-0.907	-0.889

TBC1D22A	blue	0.648	0.691
TBCB	blue	0.718	0.719
TCEB2	blue	0.802	0.751
TCOF1	blue	0.714	0.737
TCTA	blue	0.767	0.853
TDRD6	blue	-0.444	-0.674
TEAD1	blue	-0.868	-0.892
TEKT2	blue	0.429	0.565
TESC	blue	0.937	0.916
TESK1	blue	0.947	0.770
TFPT	blue	0.434	0.586
TGM3	blue	0.514	0.590
THAP2	blue	-0.834	-0.731
THAP3	blue	0.638	0.790
THAP6	blue	-0.956	-0.588
THAP7	blue	0.831	0.739
THAP8	blue	0.613	0.887
THOP1	blue	0.808	0.809
THSD4	blue	-0.421	-0.590
THY1	blue	0.924	0.923
TIA1	blue	-0.971	-0.672
TIFA	blue	-0.515	-0.443
TIGD4	blue	-0.828	-0.705
TIMM10	blue	0.484	0.715
TIMM17B	blue	0.772	0.688
TIMM22	blue	0.851	0.876
TIMM23	blue	0.354	0.655
TIMM50	blue	0.827	0.897
TLE6	blue	0.701	0.522
TLR2	blue	-0.485	-0.769
TMCO1	blue	-0.864	-0.689
TMED3	blue	0.855	0.855
TMEM11	blue	0.789	0.780
TMEM132E	blue	0.538	0.589
TMEM133	blue	-0.815	-0.747
TMEM141	blue	0.847	0.925
TMEM143	blue	0.851	0.661
TMEM167B	blue	-0.633	-0.553
TMEM168	blue	-0.916	-0.881
TMEM170A	blue	-0.831	-0.800
TMEM186	blue	0.603	0.692
TMEM191A	blue	0.515	0.729
TMEM194A	blue	-0.877	-0.691
TMEM198	blue	0.615	0.785
TMEM203	blue	0.861	0.822
TMEM205	blue	0.940	0.853
TMEM208	blue	0.817	0.760

TMEM209	blue	-0.690	-0.613
TMEM221	blue	0.746	0.620
TMEM222	blue	0.784	0.598
TMEM234	blue	0.871	0.445
TMEM238	blue	0.548	0.309
TMEM38A	blue	0.831	0.901
TMEM39B	blue	0.819	0.615
TMEM52	blue	0.799	0.271
TMEM56	blue	-0.714	-0.546
TMEM59L	blue	0.942	0.892
TMEM9	blue	0.946	0.902
TMOD3	blue	-0.670	-0.738
TNFRSF18	blue	0.854	0.622
TNIK	blue	-0.815	-0.679
TNK2	blue	0.903	0.710
TNPO1	blue	-0.797	-0.880
TONSL	blue	0.922	0.816
TOR1A	blue	0.612	0.720
TOR1AIP2	blue	-0.607	-0.842
TP53I11	blue	0.540	0.688
TPI1	blue	0.939	0.958
TPRG1L	blue	0.811	0.715
TPT1	blue	0.352	0.386
TRAF6	blue	-0.800	-0.727
TRAIP	blue	0.817	0.536
TRAPPC2L	blue	0.840	0.831
TRDMT1	blue	-0.768	-0.430
TRIB3	blue	0.828	0.704
TRIM29	blue	0.447	0.470
TRIM46	blue	0.932	0.815
TRIM5	blue	-0.689	-0.767
TRMT112	blue	0.684	0.529
TRMT61A	blue	0.633	0.704
TRPM3	blue	-0.620	-0.800
TRPM7	blue	-0.858	-0.670
TRPV2	blue	0.721	0.463
TRUB2	blue	0.836	0.957
TSG101	blue	-0.575	-0.636
TSPAN6	blue	-0.850	-0.773
TSR2	blue	0.935	0.733
TSSC1	blue	0.939	0.889
TSTA3	blue	0.985	0.821
TTC9B	blue	0.900	0.630
TUBA1A	blue	0.498	0.679
TUBA4A	blue	0.965	0.756
TUBB	blue	0.883	0.702
TUBB2A	blue	0.895	0.835

TUBB4A	blue	0.656	0.780
TUBB4B	blue	0.934	0.695
TUBG2	blue	0.774	0.879
TUSC2	blue	0.852	0.863
TWF2	blue	0.880	0.854
U2AF2	blue	0.459	0.633
UBA52	blue	0.613	0.715
UBE2H	blue	-0.829	-0.759
UBE2L3	blue	0.807	0.942
UBE2QL1	blue	0.681	0.688
UBE2S	blue	0.603	0.610
UBE2V1	blue	-0.711	-0.743
UBL7	blue	0.913	0.868
UBR2	blue	-0.869	-0.713
UBR5	blue	-0.859	-0.922
UBTF	blue	0.531	0.838
UBXN6	blue	0.929	0.931
UEVLD	blue	-0.835	-0.844
UFC1	blue	0.757	0.711
ULK3	blue	0.975	0.913
UNC119B	blue	-0.788	-0.803
UNC50	blue	-0.821	-0.704
UROC1	blue	0.761	0.634
USE1	blue	0.947	0.732
USP24	blue	-0.860	-0.809
USP45	blue	-0.678	-0.742
USP47	blue	-0.977	-0.857
UXT	blue	0.847	0.535
VAC14	blue	0.844	0.941
VAMP2	blue	0.587	0.793
VILL	blue	0.813	0.691
VPS26B	blue	0.841	0.767
VPS28	blue	0.844	0.796
VPS72	blue	0.507	0.592
VSTM2L	blue	0.590	0.947
VSX1	blue	-0.643	-0.798
VWA5B2	blue	0.756	0.724
WAPAL	blue	-0.891	-0.921
WASF3	blue	-0.413	-0.527
WBSCR17	blue	0.833	0.786
WDR13	blue	0.912	0.889
WDR25	blue	0.772	0.776
WDR35	blue	-0.638	-0.593
WDR43	blue	-0.523	-0.782
WDR46	blue	0.892	0.798
WDR5	blue	0.589	0.750
WDR62	blue	0.547	0.779

WDR75	blue	-0.852	-0.719
WDR76	blue	-0.727	-0.690
WDR83	blue	0.919	0.787
WDR83OS	blue	0.649	0.422
WDR86	blue	0.810	0.748
WFDC2	blue	0.673	0.766
WISP3	blue	-0.455	-0.346
WNT10A	blue	0.548	0.671
WRN	blue	-0.934	-0.883
XPOT	blue	-0.853	-0.760
XRN1	blue	-0.921	-0.889
YARS2	blue	0.080	0.760
YBX2	blue	0.636	0.439
YIF1B	blue	0.850	0.838
ZBTB10	blue	-0.676	-0.889
ZBTB12	blue	0.476	0.635
ZBTB17	blue	0.794	0.575
ZBTB26	blue	-0.937	-0.885
ZC3H12C	blue	-0.912	-0.915
ZC3H12D	blue	0.655	0.516
ZC3HAV1	blue	-0.702	-0.788
ZCCHC4	blue	-0.836	-0.677
ZDHHC12	blue	0.529	0.487
ZDHHC13	blue	-0.580	-0.564
ZDHHC2	blue	-0.910	-0.846
ZFAND2A	blue	0.615	0.712
ZFAND2B	blue	0.867	0.543
ZFP112	blue	-0.752	-0.553
ZMYM1	blue	-0.928	-0.733
ZMYND19	blue	0.840	0.800
ZNF136	blue	-0.692	-0.530
ZNF14	blue	-0.697	-0.766
ZNF146	blue	-0.935	-0.828
ZNF160	blue	-0.888	-0.789
ZNF167	blue	-0.773	-0.703
ZNF175	blue	-0.771	-0.707
ZNF197	blue	-0.890	-0.850
ZNF225	blue	-0.816	-0.669
ZNF254	blue	-0.868	-0.943
ZNF267	blue	-0.659	-0.858
ZNF268	blue	-0.805	-0.785
ZNF280D	blue	-0.829	-0.633
ZNF283	blue	-0.800	-0.517
ZNF284	blue	-0.667	-0.467
ZNF286B	blue	-0.550	-0.539
ZNF341	blue	0.877	0.609
ZNF383	blue	-0.664	-0.600

ZNF414	blue	0.767	0.613
ZNF432	blue	-0.463	-0.653
ZNF451	blue	-0.903	-0.720
ZNF506	blue	-0.767	-0.819
ZNF528	blue	-0.647	-0.513
ZNF529	blue	-0.773	-0.810
ZNF544	blue	0.828	0.757
ZNF550	blue	-0.558	-0.571
ZNF554	blue	0.579	0.833
ZNF558	blue	-0.923	-0.820
ZNF571	blue	-0.914	-0.916
ZNF594	blue	-0.705	-0.627
ZNF596	blue	-0.420	-0.678
ZNF654	blue	-0.802	-0.784
ZNF662	blue	-0.891	-0.738
ZNF674	blue	-0.571	-0.827
ZNF74	blue	0.779	0.770
ZNF775	blue	0.813	0.892
ZNF800	blue	-0.555	-0.772
ZNF827	blue	0.452	0.504
ZNRF1	blue	0.806	0.859
ZSCAN12	blue	-0.898	-0.806
ZWINT	blue	0.959	0.730
AAAS	darkgreen	-0.758	-0.759
AARSD1	darkgreen	-0.903	-0.870
AC011551.2	darkgreen	-0.820	-0.541
AEBP2	darkgreen	0.621	0.677
AFF4	darkgreen	0.966	0.966
ALG11	darkgreen	0.838	0.785
ALKBH7	darkgreen	-0.581	-0.879
ANAPC11	darkgreen	-0.922	-0.809
ARF4	darkgreen	0.690	0.681
ARHGEF12	darkgreen	0.760	0.862
ARL5B	darkgreen	0.894	0.933
ATF6	darkgreen	0.785	0.757
ATP13A3	darkgreen	0.931	0.977
B3GALT1	darkgreen	0.845	0.845
BAX	darkgreen	-0.644	-0.740
BRD9	darkgreen	-0.908	-0.875
C12orf49	darkgreen	0.841	0.889
C7orf42	darkgreen	0.722	0.976
CA13	darkgreen	0.693	0.784
CANX	darkgreen	0.911	0.760
CCDC117	darkgreen	0.882	0.815
CCDC126	darkgreen	0.917	0.633
CDK5RAP1	darkgreen	-0.884	-0.649
CDV3	darkgreen	0.948	0.911

CHAD	darkgreen	-0.583	-0.764
CHAF1A	darkgreen	-0.670	-0.837
CHMP2A	darkgreen	-0.984	-0.919
CLDN12	darkgreen	0.680	0.831
COPB2	darkgreen	0.702	0.657
CPEB4	darkgreen	0.916	0.896
CSNK1A1	darkgreen	0.796	0.929
CYHR1	darkgreen	-0.845	-0.792
CYP2D7P1	darkgreen	-0.786	-0.689
DCHS2	darkgreen	0.509	0.801
DCN	darkgreen	0.512	0.728
DENND4A	darkgreen	0.971	0.924
DHX33	darkgreen	0.669	0.907
DHX40	darkgreen	0.896	0.907
DNAJB9	darkgreen	0.810	0.867
EDEM3	darkgreen	0.979	0.935
EDNRA	darkgreen	0.452	0.794
ELL2	darkgreen	0.822	0.901
ERLIN1	darkgreen	0.557	0.829
ETF1	darkgreen	0.857	0.900
ETS1	darkgreen	0.728	0.689
FAM208B	darkgreen	0.943	0.778
FAM82A2	darkgreen	-0.813	-0.688
FANCG	darkgreen	-0.959	-0.800
FBXO21	darkgreen	0.662	0.781
FBXO5	darkgreen	0.914	0.882
FOXJ3	darkgreen	0.811	0.947
FRMD3	darkgreen	0.637	0.677
GNB4	darkgreen	0.841	0.855
GNPTG	darkgreen	-0.920	-0.714
GSPT1	darkgreen	0.937	0.915
GSR	darkgreen	0.500	0.869
HDX	darkgreen	0.953	0.588
HELZ	darkgreen	0.899	0.775
HIPK1	darkgreen	0.756	0.964
HIPK3	darkgreen	0.823	0.900
HIST3H2A	darkgreen	-0.666	-0.660
HS2ST1	darkgreen	0.842	0.852
IFI27L1	darkgreen	-0.827	-0.614
IFNAR1	darkgreen	0.954	0.804
IL1RAP	darkgreen	0.747	0.817
IMP3	darkgreen	-0.620	-0.754
INO80C	darkgreen	-0.863	-0.845
IREB2	darkgreen	0.947	0.910
JHDM1D	darkgreen	0.928	0.904
KCTD12	darkgreen	0.950	0.814
KCTD20	darkgreen	0.946	0.931

KIAA0586	darkgreen	0.860	0.809
KIAA2018	darkgreen	0.870	0.816
KLC4	darkgreen	-0.878	-0.815
LIN7B	darkgreen	-0.937	-0.828
LPHN3	darkgreen	0.768	0.834
LPIN2	darkgreen	0.932	0.865
LRRC43	darkgreen	-0.853	-0.584
LYST	darkgreen	0.850	0.772
MAK16	darkgreen	0.808	0.684
MAPK12	darkgreen	-0.786	-0.776
MED13L	darkgreen	0.485	0.868
MMGT1	darkgreen	0.939	0.824
MRPL2	darkgreen	-0.844	-0.822
MRPL38	darkgreen	-0.906	-0.743
MRPL43	darkgreen	-0.761	-0.926
MYNN	darkgreen	0.868	0.814
MYO18B	darkgreen	-0.573	-0.779
NAA50	darkgreen	0.986	0.916
NAAA	darkgreen	-0.425	-0.489
NAMPT	darkgreen	0.934	0.785
NFAT5	darkgreen	0.854	0.782
NPRL2	darkgreen	-0.902	-0.785
NUDT16L1	darkgreen	-0.915	-0.757
NUFIP2	darkgreen	0.971	0.942
OBFC2A	darkgreen	0.477	0.663
OTUD4	darkgreen	0.935	0.926
PAQR7	darkgreen	-0.942	-0.665
PBX3	darkgreen	0.711	0.776
PCDH18	darkgreen	0.747	0.718
PCDHB12	darkgreen	0.434	0.794
PCDHB13	darkgreen	0.719	0.796
PCDHB14	darkgreen	0.601	0.713
PCGF5	darkgreen	0.876	0.907
PDE4D	darkgreen	0.728	0.749
PHOSPHO2	darkgreen	0.593	0.876
PI4KAP2	darkgreen	-0.648	-0.714
PIPSL	darkgreen	-0.845	-0.850
PPDPF	darkgreen	-0.474	-0.627
PRKCA	darkgreen	0.841	0.890
PTPRJ	darkgreen	0.795	0.825
RAB5A	darkgreen	0.951	0.743
RALGAPA1	darkgreen	0.969	0.933
RANBP1	darkgreen	-0.763	-0.720
RB1	darkgreen	0.978	0.826
RBM12	darkgreen	0.869	0.928
RGL1	darkgreen	0.794	0.923
RNF115	darkgreen	0.687	0.783

RNF169	darkgreen	0.780	0.860
RPP25L	darkgreen	-0.894	-0.674
RPUSD2	darkgreen	-0.889	-0.524
RSG1	darkgreen	-0.791	-0.885
SAMD8	darkgreen	0.946	0.907
SDSL	darkgreen	-0.850	-0.594
SEC24A	darkgreen	0.885	0.920
SESTD1	darkgreen	0.854	0.757
SFTPD	darkgreen	-0.557	-0.897
SLC35E4	darkgreen	-0.922	-0.675
SLC37A3	darkgreen	0.704	0.721
SMG1	darkgreen	0.895	0.846
SOD2	darkgreen	0.625	0.733
STAT1	darkgreen	0.602	0.927
STRA13	darkgreen	-0.736	-0.772
SUGP1	darkgreen	-0.929	-0.829
TAF6L	darkgreen	-0.720	-0.707
TARS2	darkgreen	-0.901	-0.668
TCTN3	darkgreen	0.607	0.817
TEX264	darkgreen	-0.927	-0.834
TFAP4	darkgreen	-0.598	-0.527
TMEM135	darkgreen	0.940	0.823
TMEM161A	darkgreen	-0.831	-0.822
TMTC3	darkgreen	0.777	0.836
TOP1MT	darkgreen	-0.913	-0.731
TRAPPC12	darkgreen	-0.863	-0.750
TRIM8	darkgreen	-0.477	-0.709
TRMT2A	darkgreen	-0.918	-0.727
TRPC4	darkgreen	0.681	0.800
TTC39B	darkgreen	0.838	0.797
TUFM	darkgreen	-0.872	-0.937
TXNRD1	darkgreen	0.550	0.895
UBASH3B	darkgreen	0.928	0.864
UBE2J1	darkgreen	0.810	0.906
UROD	darkgreen	-0.815	-0.880
WBP1	darkgreen	-0.852	-0.658
WDFY3	darkgreen	0.908	0.874
WNK3	darkgreen	0.967	0.864
WWC2	darkgreen	0.826	0.805
XPO1	darkgreen	0.868	0.729
XYLT2	darkgreen	-0.717	-0.710
ZBTB33	darkgreen	0.959	0.942
ZC3HC1	darkgreen	-0.679	-0.824
ZNF205	darkgreen	-0.793	-0.571
ZNF295	darkgreen	0.859	0.849
ZNF428	darkgreen	-0.447	-0.740
ZNF518B	darkgreen	0.929	0.895

ZNRF2	darkgreen	0.956	0.762
AC005162.3	darkgrey	0.518	0.665
AC007386.2	darkgrey	0.646	0.753
AC007743.1	darkgrey	-0.713	-0.739
AC055764.1	darkgrey	0.831	0.807
ACOT1	darkgrey	0.767	0.509
AKR7L	darkgrey	0.843	0.823
AL139099.1	darkgrey	0.835	0.954
ALDH8A1	darkgrey	0.542	0.418
ANKRD30BL	darkgrey	0.538	0.714
ARHGAP32	darkgrey	-0.747	-0.756
ASTN1	darkgrey	-0.898	-0.946
ATP2B4	darkgrey	-0.925	-0.880
ATP6AP1L	darkgrey	0.672	0.624
BCL11B	darkgrey	0.521	0.542
BCL9L	darkgrey	-0.779	-0.827
BPTF	darkgrey	0.490	0.802
BRPF3	darkgrey	-0.901	-0.963
C10orf103	darkgrey	0.890	0.885
C12orf50	darkgrey	0.541	0.786
C17orf57	darkgrey	0.484	0.898
C1orf146	darkgrey	0.406	0.661
C3orf30	darkgrey	0.547	0.770
C3orf35	darkgrey	0.824	0.917
CALD1	darkgrey	0.798	0.797
CANT1	darkgrey	-0.919	-0.923
CCDC36	darkgrey	0.768	0.830
CLDND2	darkgrey	0.718	0.818
CLINT1	darkgrey	-0.773	-0.739
CNOT10	darkgrey	0.710	0.637
CPO	darkgrey	0.720	0.732
CTB-113P19.1	darkgrey	0.711	0.515
CTB-46B19.2	darkgrey	0.713	0.876
CTC-338M12.4	darkgrey	0.598	0.853
CTD-3065B20.3	darkgrey	0.784	0.865
DBIL5P2	darkgrey	0.665	0.868
DCP1A	darkgrey	0.788	0.828
DPYSL3	darkgrey	-0.726	-0.620
DSCAM-IT1	darkgrey	0.772	0.547
EFR3B	darkgrey	-0.865	-0.976
EIF4EBP1	darkgrey	0.825	0.783
EIF5A	darkgrey	0.311	0.571
EXTL3	darkgrey	-0.931	-0.941
EZH2	darkgrey	0.705	0.909
FAM120B	darkgrey	-0.610	-0.713
FAM194A	darkgrey	0.840	0.783
FAM55A	darkgrey	0.660	0.704

FAM5C	darkgrey	-0.651	-0.676
FAM66B	darkgrey	-0.870	-0.600
FILIP1L	darkgrey	0.818	0.806
GBP7	darkgrey	0.824	0.667
GCNT3	darkgrey	0.811	0.821
GPR64	darkgrey	0.899	0.812
GUCY2D	darkgrey	0.818	0.143
HBA1	darkgrey	0.849	0.471
HIGD1C	darkgrey	0.753	0.813
HULC	darkgrey	0.738	0.866
IL20RB	darkgrey	0.391	0.855
INTS4L1	darkgrey	0.600	0.563
ISY1	darkgrey	0.789	0.873
KIAA1407	darkgrey	0.677	0.938
L1TD1	darkgrey	0.748	0.922
LINC00525	darkgrey	0.858	0.918
MAGI2	darkgrey	-0.831	-0.786
MALSU1	darkgrey	0.548	0.677
MDGA1	darkgrey	-0.656	-0.573
MIR320B2	darkgrey	0.712	0.527
MIR548I1	darkgrey	0.729	0.832
MORC2-AS1	darkgrey	0.668	0.661
NAP1L6	darkgrey	0.592	0.532
NEK11	darkgrey	0.779	0.679
NEXN	darkgrey	0.855	0.881
NHSL2	darkgrey	-0.866	-0.922
NKAPP1	darkgrey	0.696	0.513
NRP2	darkgrey	-0.802	-0.756
NUDT13	darkgrey	0.885	0.934
NUP37	darkgrey	0.747	0.603
OSBPL10-AS1	darkgrey	0.593	0.833
PCBP2	darkgrey	0.869	0.808
PCCA-AS1	darkgrey	0.540	0.583
PCDH1	darkgrey	-0.856	-0.964
PCDHA2	darkgrey	-0.706	-0.817
PCDHA4	darkgrey	-0.829	-0.911
PDZK1IP1-AS1	darkgrey	0.821	0.878
PFN4	darkgrey	0.675	0.793
PHF15	darkgrey	-0.968	-0.880
PIH1D2	darkgrey	0.689	0.559
POM121	darkgrey	-0.908	-0.906
PPEF2	darkgrey	0.663	0.668
PPP1R16B	darkgrey	-0.916	-0.844
PRRC2B	darkgrey	-0.950	-0.939
PSMC1	darkgrey	0.778	0.844
PTGFRN	darkgrey	-0.835	-0.736
RAI1	darkgrey	-0.582	-0.847

RELN	darkgrey	-0.180	-0.645
RGS8	darkgrey	-0.638	-0.971
RNF113B	darkgrey	0.797	0.717
RNF2	darkgrey	-0.949	-0.791
RNF216-IT1	darkgrey	0.897	0.767
RP11-1136G11.7	darkgrey	-0.355	-0.643
RP11-139H15.1	darkgrey	0.834	0.622
RP11-182J1.12	darkgrey	0.787	0.640
RP11-231I16.1	darkgrey	0.480	0.812
RP11-346I3.4	darkgrey	0.716	0.922
RP11-464F9.9	darkgrey	0.675	0.892
RP11-484D2.2	darkgrey	0.833	0.912
RP11-507K2.2	darkgrey	0.871	0.802
RP11-586K2.1	darkgrey	-0.879	-0.749
RP11-637O19.2	darkgrey	0.735	0.838
RP11-752G15.4	darkgrey	0.762	0.406
RP11-80H8.4	darkgrey	0.493	0.638
RP11-840I19.3	darkgrey	0.868	0.872
RP11-877E17.2	darkgrey	0.892	0.766
RP11-96K19.2	darkgrey	0.665	0.749
RP3-477O4.14	darkgrey	0.950	0.646
RP4-811H24.6	darkgrey	0.868	0.875
RP5-828H9.3	darkgrey	0.848	0.546
RPL13AP6	darkgrey	0.753	0.816
SAA2	darkgrey	0.524	0.782
SAT1	darkgrey	0.734	0.777
SAT2	darkgrey	0.776	0.619
SCN4A	darkgrey	-0.668	-0.488
SEC31A	darkgrey	-0.499	-0.623
SECISBP2	darkgrey	0.480	0.625
SERPINE1	darkgrey	0.609	0.603
SH3RF1	darkgrey	-0.801	-0.868
SLC10A1	darkgrey	0.933	0.851
SLC26A3	darkgrey	0.707	0.730
SLC35C1	darkgrey	-0.508	-0.737
SNX31	darkgrey	0.878	0.632
SPARCL1	darkgrey	0.824	0.771
SRGAP3-AS1	darkgrey	0.731	0.661
SUPV3L1	darkgrey	0.535	0.525
TBC1D14	darkgrey	-0.931	-0.914
TLL1	darkgrey	-0.648	-0.535
TNFRSF19	darkgrey	-0.915	-0.871
TPH1	darkgrey	0.584	0.695
TPRXL	darkgrey	0.812	0.497
TRAPPC9	darkgrey	-0.785	-0.802
TRIM27	darkgrey	-0.800	-0.608
TRNAU1AP	darkgrey	0.725	0.949

TTN	darkgrey	0.547	0.775
UBE3B	darkgrey	-0.846	-0.845
UPF3A	darkgrey	0.901	0.804
VLDLR	darkgrey	-0.881	-0.962
WDR64	darkgrey	0.866	0.498
XPO7	darkgrey	-0.935	-0.887
XYLT1	darkgrey	-0.896	-0.955
ZBTB8OS	darkgrey	0.941	0.966
ZCCHC2	darkgrey	-0.743	-0.859
ZDHHC5	darkgrey	-0.766	-0.681
ZFP2	darkgrey	0.926	0.804
ZNF444	darkgrey	0.819	0.692
ZNF502	darkgrey	0.574	0.676
ZNF787	darkgrey	0.539	0.677
SEPT11	darkolivegree	0.840	0.912
AC090616.2	darkolivegree	0.727	0.689
AL592528.1	darkolivegree	0.745	0.498
ATP6V0A4	darkolivegree	0.831	0.626
C1QL1	darkolivegree	0.734	0.647
CCDC47	darkolivegree	-0.769	-0.549
CNOT8	darkolivegree	-0.728	-0.836
CTC-378H22.1	darkolivegree	0.920	0.541
CTCF	darkolivegree	0.736	0.645
CTD-2574D22.5	darkolivegree	0.885	0.687
DNAJC8	darkolivegree	0.837	0.830
EMD	darkolivegree	0.858	0.552
FAM127C	darkolivegree	-0.862	-0.520
FAM182B	darkolivegree	0.615	0.283
FGF16	darkolivegree	0.790	0.696
GABARAP	darkolivegree	0.867	0.774
HMGB3P22	darkolivegree	0.867	0.882
HOPX	darkolivegree	0.660	0.766
IK	darkolivegree	0.917	0.645
KAT6B	darkolivegree	0.777	0.958
KIAA1984	darkolivegree	0.581	0.666
LINC00266-1	darkolivegree	0.627	0.735
LINC00577	darkolivegree	0.937	0.593
LPAL2	darkolivegree	0.660	0.697
NBEAL1	darkolivegree	0.773	0.913
NSFL1C	darkolivegree	0.919	0.886
NXNL2	darkolivegree	0.565	0.850
OLFML2A	darkolivegree	-0.757	-0.520
OTUD1	darkolivegree	-0.693	-0.680
PCBD1	darkolivegree	0.874	0.671
PRRC2C	darkolivegree	0.840	0.906
PRSS54	darkolivegree	0.939	0.721
RAD23A	darkolivegree	0.829	0.763

RBM15	darkolivegree	-0.857	-0.853
RNF19A	darkolivegree	-0.858	-0.682
RP11-181G12.4	darkolivegree	0.697	0.905
RP11-327L3.1	darkolivegree	-0.616	-0.792
RP11-360F5.1	darkolivegree	-0.871	-0.695
RP11-397P14.3	darkolivegree	0.928	0.881
RP11-48B14.2	darkolivegree	0.835	0.898
RPL14	darkolivegree	0.806	0.744
RPL28	darkolivegree	0.888	0.895
RPL35	darkolivegree	0.774	0.573
RPS24	darkolivegree	0.944	0.714
SAMD1	darkolivegree	0.898	0.904
SNORA84	darkolivegree	0.692	0.891
SNORA9	darkolivegree	-0.822	-0.550
SNRPA	darkolivegree	0.827	0.810
SP7	darkolivegree	-0.728	-0.643
SPDYE8P	darkolivegree	0.825	0.806
SRP14	darkolivegree	0.940	0.763
TAF10	darkolivegree	0.957	0.880
TAOK3	darkolivegree	0.885	0.937
TCEAL3	darkolivegree	0.945	0.873
TCEAL4	darkolivegree	0.926	0.924
TCEAL5	darkolivegree	0.934	0.966
TCEAL6	darkolivegree	0.881	0.792
TMEM132C	darkolivegree	-0.877	-0.677
UBAP2	darkolivegree	0.930	0.907
UTP3	darkolivegree	0.959	0.799
ZAR1	darkolivegree	-0.750	-0.813
ZNF419	darkolivegree	-0.827	-0.632
ZNF420	darkolivegree	-0.780	-0.739
ZNF519	darkolivegree	-0.739	-0.773
ZNF764	darkolivegree	-0.640	-0.649
ZSCAN20	darkolivegree	-0.770	-0.850
AC004540.4	darkorange	-0.485	-0.584
AC010680.1	darkorange	-0.774	-0.636
ADCY6	darkorange	0.812	0.695
ADCY7	darkorange	0.811	0.719
ANAPC16	darkorange	-0.979	-0.932
ANGPTL5	darkorange	-0.401	-0.620
ANKHD1-EIF4EBP	darkorange	-0.770	-0.701
ANKRD52	darkorange	0.896	0.898
AP1B1	darkorange	0.921	0.784
ARRB1	darkorange	0.944	0.967
AXDND1	darkorange	-0.497	-0.660
BICD2	darkorange	0.957	0.962
BSCL2	darkorange	-0.627	-0.627
C11orf21	darkorange	0.727	0.632

C16orf70	darkorange	0.901	0.894
C20orf152	darkorange	-0.285	-0.816
CC2D2A	darkorange	-0.802	-0.614
CCRL1	darkorange	-0.948	-0.759
CELSR2	darkorange	0.970	0.975
CETN2	darkorange	-0.826	-0.327
CHD2	darkorange	-0.974	-0.929
CHEK2	darkorange	-0.801	-0.583
CHMP4A	darkorange	-0.910	-0.858
CLPB	darkorange	0.937	0.932
COIL	darkorange	-0.937	-0.783
CSNK1D	darkorange	0.872	0.814
CTA-221G9.11	darkorange	0.554	0.763
DDB1	darkorange	0.960	0.882
DUT	darkorange	-0.628	-0.363
DYNC1H1	darkorange	0.945	0.987
EGFL8	darkorange	-0.724	-0.730
EIF4H	darkorange	0.617	0.950
ELFN1	darkorange	0.790	0.600
EPHB2	darkorange	0.889	0.714
EXOC7	darkorange	0.987	0.971
FAM81B	darkorange	-0.387	-0.836
FLRT1	darkorange	0.900	0.859
FOXP4	darkorange	0.713	0.693
FRAS1	darkorange	0.626	0.882
FUCA1	darkorange	0.599	0.755
GBA	darkorange	0.933	0.875
GJC3	darkorange	-0.671	-0.762
GNL2	darkorange	-0.905	-0.729
GTF3C1	darkorange	0.828	0.808
HERC2	darkorange	0.908	0.955
HMGB3	darkorange	-0.573	-0.501
HSCB	darkorange	-0.931	-0.844
HSPD1	darkorange	-0.838	-0.629
HUWE1	darkorange	0.934	0.896
IL15	darkorange	-0.684	-0.679
IL20RA	darkorange	-0.819	-0.781
JUND	darkorange	-0.748	-0.805
LAMB4	darkorange	-0.571	-0.631
LARP1	darkorange	0.930	0.927
LEPREL1	darkorange	-0.437	-0.729
LYG2	darkorange	-0.746	-0.891
MACC1	darkorange	-0.586	-0.710
MALAT1	darkorange	-0.884	-0.983
MAN2B2	darkorange	0.871	0.943
MAX	darkorange	-0.891	-0.763
MCM2	darkorange	0.951	0.760

MFN2	darkorange	0.921	0.947
MKRN9P	darkorange	0.910	0.740
MLL2	darkorange	0.781	0.724
MPHOSPH6	darkorange	-0.762	-0.597
MPP3	darkorange	0.725	0.828
NOSTRIN	darkorange	-0.670	-0.621
NPHP1	darkorange	-0.916	-0.891
NUP210L	darkorange	-0.940	-0.800
PKD1L1	darkorange	-0.663	-0.523
PKD2L1	darkorange	0.568	0.703
PLA2G5	darkorange	-0.780	-0.669
POLE2	darkorange	-0.898	-0.835
PRDM4	darkorange	0.866	0.909
PRKD2	darkorange	-0.822	-0.618
PRMT5	darkorange	0.926	0.846
PRPF8	darkorange	0.965	0.851
PSAP	darkorange	0.938	0.898
PUM1	darkorange	0.912	0.637
PYGL	darkorange	-0.860	-0.704
RAB5B	darkorange	0.888	0.497
RARRES1	darkorange	-0.631	-0.384
RASAL1	darkorange	0.795	0.769
RBM6	darkorange	-0.840	-0.865
RFT1	darkorange	0.699	0.658
RNF149	darkorange	-0.832	-0.887
RNF19B	darkorange	0.794	0.494
RP11-131L23.1	darkorange	-0.929	-0.923
RP11-216B9.6	darkorange	-0.907	-0.541
RP11-418J17.1	darkorange	-0.746	-0.741
RP11-557J10.4	darkorange	-0.874	-0.766
RP11-849H4.4	darkorange	-0.692	-0.495
RP3-414A15.10	darkorange	-0.394	-0.814
RRAS2	darkorange	-0.916	-0.734
RSRC2	darkorange	-0.899	-0.718
SBDSP1	darkorange	-0.760	-0.624
SEC16A	darkorange	0.724	0.811
SETD1B	darkorange	0.787	0.759
SLC7A3	darkorange	0.717	0.418
SLC7A6	darkorange	0.762	0.501
SMCR7L	darkorange	0.778	0.729
SNORD10	darkorange	-0.671	-0.753
SRSF11	darkorange	-0.957	-0.958
ST20	darkorange	-0.761	-0.681
STK38	darkorange	-0.911	-0.952
TAF11	darkorange	-0.915	-0.558
TECTA	darkorange	0.762	0.858
TPT1-AS1	darkorange	-0.847	-0.782

TRRAP	darkorange	0.844	0.671
TSC2	darkorange	0.881	0.804
TUSC1	darkorange	-0.672	-0.508
URB1	darkorange	0.900	0.870
USP22	darkorange	0.953	0.959
VAV2	darkorange	0.673	0.405
WDR77	darkorange	0.914	0.938
WRB	darkorange	0.782	0.701
WWP2	darkorange	0.914	0.740
XPNPEP1	darkorange	0.681	0.505
ZC2HC1B	darkorange	-0.625	-0.440
ZDHHC3	darkorange	0.834	0.753
ZMYM3	darkorange	0.952	0.936
ZNF286A	darkorange	-0.850	-0.646
ZNF71	darkorange	0.868	0.898
ZNF791	darkorange	-0.915	-0.641
ZNF843	darkorange	0.853	0.511
ZNF860	darkorange	0.712	0.733
ZZEF1	darkorange	0.870	0.825
ABCF1	darkred	0.914	0.961
ADPRHL2	darkred	0.781	0.826
ANGPTL6	darkred	0.831	0.646
B3GAT3	darkred	0.912	0.894
BLOC1S3	darkred	0.668	0.597
C10orf137	darkred	-0.850	-0.848
C10orf140	darkred	-0.664	-0.539
C11orf83	darkred	0.722	0.626
C17orf59	darkred	0.697	0.765
C18orf25	darkred	-0.876	-0.774
C19orf48	darkred	0.811	0.709
C20orf160	darkred	0.716	0.687
C22orf46	darkred	0.746	0.735
C3orf23	darkred	-0.926	-0.807
C6orf1	darkred	0.927	0.788
CAPN12	darkred	0.513	0.632
CDC7	darkred	-0.719	-0.699
CENPB	darkred	0.887	0.875
CHCHD5	darkred	0.809	0.726
CHMP1A	darkred	0.893	0.752
CHPF	darkred	0.828	0.628
CKAP2	darkred	-0.853	-0.817
CLPP	darkred	0.795	0.862
COMMD5	darkred	0.767	0.738
COX6B2	darkred	0.806	0.713
DDX20	darkred	-0.748	-0.827
DECR2	darkred	0.911	0.882
DEGS1	darkred	-0.768	-0.503

DENND1B	darkred	-0.748	-0.841
DGAT1	darkred	0.923	0.687
DSE	darkred	0.924	0.663
EIF3M	darkred	-0.784	-0.735
ETFB	darkred	0.976	0.719
FAM20C	darkred	0.750	0.606
FAM3A	darkred	0.762	0.793
FAM50A	darkred	0.938	0.833
FAM71F1	darkred	0.401	0.701
FAM96B	darkred	0.965	0.822
FANCI	darkred	-0.474	-0.747
FBL	darkred	0.933	0.813
FIGNL1	darkred	-0.676	-0.719
FOXF2	darkred	0.557	0.644
FUBP1	darkred	-0.824	-0.710
GAMT	darkred	0.714	0.747
GNB2L1	darkred	0.897	0.915
GPX1	darkred	0.972	0.788
GS1-393G12.12	darkred	0.802	0.925
HEXDC	darkred	0.723	0.796
IMPA1	darkred	-0.632	-0.783
INPP5K	darkred	0.884	0.704
IQCB1	darkred	-0.816	-0.594
ISOC2	darkred	0.878	0.839
KDM3A	darkred	-0.584	-0.830
KIAA0564	darkred	-0.732	-0.889
KIAA1875	darkred	0.516	0.583
KIF12	darkred	0.556	0.751
KLRAP1	darkred	-0.881	-0.781
KNTC1	darkred	-0.631	-0.799
KXD1	darkred	0.607	0.793
LINS	darkred	-0.505	-0.693
LSM10	darkred	0.838	0.820
MAD2L2	darkred	0.612	0.862
MDM1	darkred	-0.914	-0.699
MED27	darkred	0.947	0.898
METTL1	darkred	0.617	0.673
MFN1	darkred	-0.855	-0.886
MMAB	darkred	0.895	0.574
MPV17L2	darkred	0.712	0.820
MST1R	darkred	0.859	0.727
MYL6	darkred	0.869	0.714
NAE1	darkred	-0.759	-0.800
NAIF1	darkred	0.751	0.775
NENF	darkred	0.559	0.728
NFIC	darkred	0.802	0.835
NSMCE1	darkred	0.919	0.829

NUP62	darkred	0.907	0.985
PAPPA2	darkred	0.707	0.848
PCMTD2	darkred	-0.721	-0.851
PDCD11	darkred	0.824	0.647
PGLS	darkred	0.925	0.882
PIK3R6	darkred	0.597	0.577
PPHLN1	darkred	-0.720	-0.668
PPWD1	darkred	-0.913	-0.848
PRDM5	darkred	-0.630	-0.746
PSMB10	darkred	0.887	0.899
PSME1	darkred	0.658	0.827
RABL3	darkred	-0.914	-0.622
RAD54B	darkred	-0.814	-0.630
RASIP1	darkred	0.720	0.737
RDBP	darkred	0.571	0.911
RELB	darkred	0.688	0.739
RILPL1	darkred	0.901	0.809
RINT1	darkred	-0.759	-0.806
RLF	darkred	-0.844	-0.848
RNF166	darkred	0.881	0.795
RNF181	darkred	0.903	0.892
RP11-1407O15.2	darkred	-0.882	-0.845
RP11-255H23.2	darkred	-0.818	-0.721
RP11-497D6.2	darkred	-0.787	-0.804
RP11-798M19.3	darkred	-0.329	-0.782
RP4-758J18.2	darkred	0.880	0.697
RPL8	darkred	0.969	0.896
RPLP0P2	darkred	0.644	0.612
RPRD2	darkred	-0.585	-0.900
RPS2	darkred	0.655	0.907
RPS3	darkred	0.931	0.814
RPS5	darkred	0.935	0.820
RPS6KB1	darkred	-0.976	-0.855
RPSAP58	darkred	0.948	0.850
RRP9	darkred	0.892	0.881
SCML2	darkred	-0.870	-0.711
SGTA	darkred	0.515	0.757
SHARPIN	darkred	0.929	0.787
SIRT6	darkred	0.871	0.754
SLAMF8	darkred	-0.552	-0.684
SLC24A5	darkred	-0.891	-0.953
SLC25A10	darkred	0.898	0.888
SLC35G2	darkred	-0.625	-0.757
SLC38A7	darkred	0.865	0.907
STK40	darkred	0.674	0.626
STX4	darkred	0.711	0.618
STXBP2	darkred	0.788	0.725

SULT1A2	darkred	0.547	0.682
SYNC	darkred	-0.774	-0.869
TDP2	darkred	-0.924	-0.738
TEN1	darkred	0.504	0.875
THOC6	darkred	0.885	0.937
TMEM147	darkred	0.971	0.818
TMEM180	darkred	0.757	0.931
TMEM237	darkred	-0.927	-0.908
TMPRSS13	darkred	0.880	0.687
TOR2A	darkred	0.823	0.774
TSPAN14	darkred	0.489	0.631
TSSC4	darkred	0.883	0.813
TTC39C	darkred	-0.430	-0.890
TUBE1	darkred	-0.917	-0.839
U2AF1L4	darkred	0.750	0.777
USP48	darkred	-0.814	-0.655
WNK4	darkred	0.605	0.706
YKT6	darkred	0.822	0.913
ZDHHC16	darkred	0.635	0.887
ZFP30	darkred	-0.706	-0.756
ZMYM6	darkred	-0.930	-0.894
ZNF214	darkred	-0.827	-0.816
ZNF449	darkred	-0.701	-0.745
ZNF524	darkred	0.935	0.807
AC005754.1	darkturquoise	-0.746	-0.772
AC011497.1	darkturquoise	0.681	0.590
AC018712.3	darkturquoise	0.654	0.875
AC084809.2	darkturquoise	0.722	0.559
AC092295.7	darkturquoise	-0.749	-0.815
ACRBP	darkturquoise	-0.609	-0.816
AGAP5	darkturquoise	-0.681	-0.679
AKNA	darkturquoise	-0.619	-0.643
ANKRD29	darkturquoise	0.932	0.938
AQP8	darkturquoise	-0.786	-0.505
ARMCX1	darkturquoise	0.648	0.950
ATP1B1	darkturquoise	0.835	0.938
ATP5F1	darkturquoise	0.695	0.696
ATP6AP2	darkturquoise	0.829	0.913
ATP6V1B2	darkturquoise	0.881	0.975
BCL7C	darkturquoise	-0.649	-0.802
BLOC1S1	darkturquoise	-0.643	-0.423
C11orf16	darkturquoise	-0.654	-0.781
C17orf75	darkturquoise	0.887	0.982
C1orf144	darkturquoise	-0.874	-0.946
C1orf74	darkturquoise	0.485	0.810
C22orf24	darkturquoise	0.746	0.774
C22orf31	darkturquoise	-0.903	-0.829

C3orf71	darkturquoise	-0.535	-0.446
C9orf57	darkturquoise	-0.778	-0.630
CADPS	darkturquoise	0.815	0.922
CADPS2	darkturquoise	0.770	0.947
CALR	darkturquoise	-0.669	-0.805
CCDC19	darkturquoise	-0.573	-0.701
CCNI2	darkturquoise	-0.776	-0.649
CCT6A	darkturquoise	0.791	0.919
CERK	darkturquoise	0.891	0.966
CNKSR1	darkturquoise	-0.747	-0.522
COPS4	darkturquoise	0.914	0.948
CTD-2368P22.1	darkturquoise	-0.754	-0.752
CUL2	darkturquoise	0.781	0.976
DDX1	darkturquoise	0.859	0.929
DDX19B	darkturquoise	-0.822	-0.674
DKK1	darkturquoise	0.621	0.701
DLEU1	darkturquoise	-0.570	-0.787
DUSP18	darkturquoise	-0.913	-0.884
DYNLL2	darkturquoise	0.838	0.870
DYRK3	darkturquoise	-0.698	-0.804
ECHDC3	darkturquoise	-0.616	-0.726
ECM1	darkturquoise	0.731	0.818
EFNB1	darkturquoise	-0.825	-0.856
EIF4E2	darkturquoise	0.815	0.914
ELF3	darkturquoise	-0.634	-0.792
EMP3	darkturquoise	-0.813	-0.932
ETNK2	darkturquoise	-0.553	-0.689
FAM81A	darkturquoise	0.865	0.871
FAP	darkturquoise	0.600	0.647
FARSB	darkturquoise	0.875	0.934
FBLN7	darkturquoise	0.796	0.864
FBXO22	darkturquoise	0.819	0.894
FGF11	darkturquoise	-0.853	-0.720
GCNT7	darkturquoise	-0.652	-0.706
GLRB	darkturquoise	0.811	0.969
GPLD1	darkturquoise	0.697	0.511
GPRASP1	darkturquoise	0.746	0.951
GPRASP2	darkturquoise	0.848	0.977
GPX7	darkturquoise	-0.741	-0.656
HEBP1	darkturquoise	-0.685	-0.577
HENMT1	darkturquoise	0.889	0.939
HERC6	darkturquoise	0.719	0.924
HHAT	darkturquoise	0.466	0.654
HHLA3	darkturquoise	-0.793	-0.411
HNRNPA0	darkturquoise	0.572	0.747
HSDL1	darkturquoise	0.982	0.965
HUNK	darkturquoise	0.633	0.844

IGIP	darkturquoise	0.741	0.826
IMMT	darkturquoise	0.657	0.934
INPP4B	darkturquoise	0.764	0.717
KCNC1	darkturquoise	0.918	0.946
KCNS1	darkturquoise	0.868	0.811
KIAA1383	darkturquoise	0.670	0.872
KIFAP3	darkturquoise	0.895	0.930
KLF17	darkturquoise	-0.616	-0.838
KLHDC2	darkturquoise	0.764	0.963
LMAN2L	darkturquoise	-0.723	-0.523
MAP1LC3B2	darkturquoise	0.668	0.900
MAP2K1	darkturquoise	0.893	0.952
MAP2K5	darkturquoise	0.598	0.803
MAT2B	darkturquoise	0.878	0.920
MCM4	darkturquoise	0.698	0.949
MED21	darkturquoise	0.857	0.774
MKKS	darkturquoise	0.971	0.969
MOB3A	darkturquoise	-0.950	-0.914
NAP1L2	darkturquoise	0.773	0.946
NIPAL2	darkturquoise	0.678	0.790
NKIRAS1	darkturquoise	0.821	0.877
OAT	darkturquoise	0.792	0.922
PAIP2	darkturquoise	0.567	0.828
PCMT1	darkturquoise	0.824	0.935
PGAM4	darkturquoise	0.900	0.653
PHF21A	darkturquoise	-0.845	-0.890
PMPCB	darkturquoise	0.795	0.887
PPA1	darkturquoise	0.896	0.946
PRC1	darkturquoise	0.573	0.454
PRR16	darkturquoise	0.794	0.888
PRRT3-AS1	darkturquoise	-0.625	-0.753
PTMA	darkturquoise	-0.797	-0.871
QPCT	darkturquoise	0.899	0.901
RAB11A	darkturquoise	0.900	0.920
RAB8A	darkturquoise	-0.797	-0.874
RBM11	darkturquoise	0.863	0.923
REM2	darkturquoise	0.617	0.910
RFWD2	darkturquoise	0.858	0.467
RFX5	darkturquoise	0.614	0.582
RIIAD1	darkturquoise	0.677	0.694
RNF145	darkturquoise	0.908	0.951
RP11-103G8.2	darkturquoise	-0.714	-0.577
RP11-154J22.1	darkturquoise	-0.762	-0.611
RP11-265M18.2	darkturquoise	0.726	0.462
RP11-298I3.4	darkturquoise	-0.748	-0.442
RP11-446E24.4	darkturquoise	-0.778	-0.758
RP11-472B18.1	darkturquoise	-0.730	-0.414

RP1-164F3.8	darkturquoise	-0.838	-0.691
RP11-77I22.3	darkturquoise	0.580	0.781
RP11-950C14.3	darkturquoise	-0.610	-0.435
RP5-836N10.1	darkturquoise	-0.728	-0.838
RSPH6A	darkturquoise	-0.686	-0.649
RSPO2	darkturquoise	0.878	0.876
RTN4IP1	darkturquoise	0.669	0.924
RWDD2A	darkturquoise	0.835	0.936
RWDD2B	darkturquoise	0.528	0.865
SEC22C	darkturquoise	-0.669	-0.590
SEH1L	darkturquoise	0.895	0.957
SFTPB	darkturquoise	-0.839	-0.836
SH3BGRL2	darkturquoise	0.954	0.986
SLC17A6	darkturquoise	0.584	0.782
SLC25A12	darkturquoise	0.876	0.963
SOX12	darkturquoise	-0.724	-0.508
SPEN	darkturquoise	-0.842	-0.642
STAT4	darkturquoise	0.784	0.758
SUCLA2	darkturquoise	0.933	0.976
SYS1	darkturquoise	-0.767	-0.724
TCHP	darkturquoise	-0.622	-0.473
TM6SF1	darkturquoise	0.919	0.970
TMEM241	darkturquoise	0.753	0.940
TPD52	darkturquoise	0.943	0.933
TRIM21	darkturquoise	-0.833	-0.880
TSPYL1	darkturquoise	0.754	0.944
TTC19	darkturquoise	0.855	0.716
UBXN10	darkturquoise	0.805	0.860
VDAC1	darkturquoise	0.673	0.922
VMA21	darkturquoise	0.775	0.936
XAF1	darkturquoise	-0.822	-0.905
ZFP28	darkturquoise	0.575	0.704
ZNF16	darkturquoise	-0.365	-0.448
ZNF385C	darkturquoise	-0.925	-0.324
ZNF691	darkturquoise	-0.843	-0.842
MARCH4	green	0.761	0.890
SEPT3	green	0.898	0.961
AASDH	green	-0.691	-0.816
ABAT	green	0.775	0.740
ABCC2	green	-0.833	-0.833
ABR	green	0.740	0.970
AC000068.5	green	-0.748	-0.731
AC005594.1	green	-0.729	-0.786
AC007038.7	green	-0.777	-0.971
AC007383.3	green	-0.924	-0.659
AC010883.5	green	-0.615	-0.614
AC017076.4	green	0.840	0.920

AC017096.1	green	0.874	0.952
AC046143.5	green	-0.681	-0.666
AC064875.2	green	0.797	0.652
AC107081.5	green	-0.768	-0.901
AC125494.1	green	-0.729	-0.749
AC138969.4	green	-0.645	-0.354
AC140481.1	green	0.807	0.385
ACAP1	green	-0.653	-0.745
ACSM1	green	-0.784	-0.313
ACVR1B	green	0.703	0.903
ADAMTS3	green	0.917	0.760
ADARB1	green	0.796	0.913
ADCY1	green	0.850	0.968
ADCY2	green	0.790	0.545
ADRA1B	green	0.791	0.607
AGAP2	green	0.836	0.985
AGBL4	green	0.709	0.973
AHRR	green	0.624	0.564
AJAP1	green	0.680	0.896
AL096869.5	green	0.815	0.523
AL138968.1	green	0.877	0.964
ALB	green	-0.441	-0.654
ALPK1	green	-0.868	-0.804
AMIGO2	green	0.557	0.608
ANKRD10	green	-0.702	-0.530
ANKRD23	green	-0.887	-0.788
ANKRD6	green	0.664	0.904
ANKS6	green	-0.466	-0.319
ANO3	green	0.903	0.936
ANXA3	green	-0.605	-0.657
ANXA4	green	-0.887	-0.739
AP000269.1	green	-0.583	-0.848
AP000688.14	green	-0.526	-0.463
AP000892.4	green	-0.493	-0.800
AP006216.12	green	-0.804	-0.516
APOBEC3H	green	-0.328	-0.668
APOM	green	-0.795	-0.746
AQP3	green	0.393	0.427
ARF3	green	0.748	0.921
ARHGAP25	green	0.651	0.576
ARHGAP35	green	0.889	0.727
ARHGAP44	green	0.785	0.958
ARHGEF9	green	0.904	0.924
ARMCX2	green	0.905	0.958
ARNT2	green	0.623	0.878
ARPP21	green	0.801	0.929
ARRDC2	green	-0.888	-0.827

ARSD	green	-0.845	-0.926
ARSJ	green	-0.484	-0.866
ASAP1	green	0.679	0.519
ASB4	green	-0.854	-0.695
ASPHD2	green	0.870	0.945
ASXL3	green	0.770	0.851
ATCAY	green	0.819	0.788
ATOH8	green	-0.797	-0.902
ATP2B2	green	0.816	0.909
ATPBD4	green	-0.669	-0.868
B3GALNT2	green	-0.471	-0.866
B4GALT1	green	-0.822	-0.736
BACH1-IT1	green	-0.707	-0.739
BAHD1	green	0.578	0.747
BAI3	green	0.914	0.766
BAZ2B	green	-0.624	-0.763
BCKDHA	green	-0.662	-0.712
BCL11A	green	0.633	0.815
BCL2L14	green	-0.650	-0.647
BCL2L15	green	-0.570	-0.643
BCR	green	0.693	0.712
BEST3	green	-0.585	-0.808
BFSP1	green	0.680	0.668
BNC2	green	-0.752	-0.631
BOD1	green	0.654	0.683
BRI3BP	green	0.598	0.712
BTBD9	green	0.919	0.880
BTG2	green	-0.809	-0.812
BTN2A2	green	-0.654	-0.821
BTRC	green	0.815	0.865
BZRAP1	green	0.836	0.797
BZW2	green	0.816	0.891
C11orf34	green	-0.553	-0.675
C11orf41	green	0.897	0.945
C11orf95	green	0.752	0.436
C12orf39	green	-0.701	-0.855
C12orf52	green	0.684	0.966
C12orf68	green	0.731	0.833
C14orf102	green	-0.744	-0.526
C14orf129	green	0.828	0.903
C14orf180	green	0.708	0.411
C16orf46	green	0.305	0.841
C17orf39	green	0.549	0.691
C17orf51	green	0.588	0.963
C19orf18	green	-0.842	-0.757
C19orf26	green	0.654	0.733
C1orf21	green	0.767	0.754

C1orf95	green	0.867	0.918
C1orf98	green	-0.519	-0.543
C1QTNF1	green	-0.566	-0.862
C20orf43	green	0.636	0.512
C21orf58	green	-0.730	-0.599
C21orf62	green	-0.804	-0.771
C21orf7	green	-0.469	-0.416
C22orf40	green	-0.668	-0.424
C2CD2L	green	0.819	0.938
C2orf65	green	0.723	0.896
C2orf82	green	-0.599	-0.652
C3orf78	green	-0.852	-0.808
C5orf62	green	-0.521	-0.960
C6orf48	green	-0.551	-0.206
C7orf61	green	-0.711	-0.746
C8orf34	green	0.630	0.624
C8orf46	green	0.724	0.954
C9orf100	green	-0.563	-0.690
CA10	green	0.863	0.977
CA5B	green	-0.804	-0.725
CABLES2	green	0.720	0.809
CACNA1E	green	0.895	0.930
CACNA1G	green	0.892	0.938
CACNB1	green	0.786	0.946
CACNG3	green	0.768	0.972
CADM2-AS2	green	-0.717	-0.552
CADM3	green	0.949	0.987
CALB1	green	0.889	0.863
CALM1	green	0.804	0.927
CALM2	green	0.506	0.781
CAMK2A	green	0.855	0.881
CAMK4	green	0.729	0.934
CAMKK2	green	0.934	0.950
CAMKV	green	0.775	0.971
CAP2	green	0.893	0.955
CAPG	green	-0.790	-0.781
CASS4	green	-0.830	-0.570
CBLN1	green	0.763	0.805
CBS	green	-0.855	-0.851
CCDC113	green	0.561	0.877
CCDC129	green	-0.507	-0.576
CCDC13-AS1	green	-0.823	-0.427
CCDC150	green	-0.796	-0.522
CCDC84	green	-0.667	-0.749
CCNB2	green	-0.906	-0.778
CCNL2	green	-0.932	-0.722
CCNY	green	0.826	0.788

CCT6P1	green	-0.703	-0.901
CD200	green	0.905	0.941
CDA	green	-0.662	-0.729
CDC6	green	0.588	0.541
CDH12	green	0.853	0.834
CDH26	green	-0.654	-0.511
CDH8	green	0.884	0.944
CDK20	green	0.744	0.953
CDK5R1	green	0.876	0.927
CDNF	green	-0.665	-0.644
CDON	green	0.816	0.629
CECR6	green	0.876	0.892
CELF2	green	0.812	0.799
CGREF1	green	0.641	0.916
CHCHD8	green	-0.533	-0.437
CHMP7	green	0.845	0.815
CHST15	green	0.532	0.872
CHSY3	green	0.741	0.811
CLDN5	green	-0.587	-0.836
CLVS1	green	0.834	0.905
CMIP	green	0.858	0.959
CNNM1	green	0.810	0.667
CNTN3	green	0.809	0.849
CNTN4	green	0.819	0.843
CNTN5	green	0.740	0.684
CNTRL	green	-0.785	-0.857
COL21A1	green	-0.587	-0.665
COPZ1	green	0.696	0.850
COPZ2	green	-0.912	-0.874
CRISPLD1	green	-0.742	-0.705
CSNK1A1P1	green	-0.429	-0.791
CTA-211A9.5	green	-0.588	-0.733
CTB-51J22.1	green	-0.741	-0.656
CTC-774J1.2	green	0.731	0.494
CTD-2024I7.13	green	-0.879	-0.785
CTD-2270P14.3	green	-0.901	-0.567
CTD-2560E9.3	green	0.927	0.840
CTD-2561B21.9	green	0.802	0.779
CTD-2651B20.3	green	-0.709	-0.566
CX3CL1	green	0.914	0.890
CYB561D1	green	0.848	0.866
CYP4V2	green	-0.497	-0.728
CYR61	green	-0.827	-0.892
CYS1	green	0.701	0.244
CYTH3	green	0.903	0.833
DAB1	green	0.648	0.756
DACT1	green	0.466	0.842

DAGLA	green	0.713	0.929
DCAF11	green	0.782	0.792
DCAF6	green	0.947	0.950
DCLK3	green	0.961	0.760
DCUN1D3	green	-0.479	-0.571
DDIT4	green	-0.831	-0.681
DDR2	green	-0.553	-0.902
DDTL	green	-0.750	-0.446
DENND1A	green	0.671	0.836
DFNB59	green	-0.774	-0.372
DGKB	green	0.894	0.903
DGKG	green	-0.678	-0.643
DHRS2	green	0.745	0.476
DHX32	green	-0.743	-0.849
DIO1	green	-0.660	-0.712
DIO3OS	green	-0.470	-0.548
DISP2	green	0.800	0.945
DLG3	green	0.871	0.920
DLGAP3	green	0.865	0.946
DLGAP4	green	0.930	0.941
DOK6	green	0.703	0.873
DPP6	green	0.751	0.882
DRAM1	green	-0.523	-0.933
DSCAM	green	0.822	0.971
DSG3	green	0.641	0.530
DUSP14	green	0.727	0.814
DUSP6	green	0.603	0.650
E2F3	green	0.721	0.908
E2F7	green	-0.713	-0.297
EFNB3	green	0.954	0.965
EGR3	green	0.813	0.947
EHBP1	green	0.642	0.620
EIF1AX	green	0.339	0.612
ELF2	green	-0.817	-0.909
ELFN2	green	0.762	0.932
ELP3	green	0.587	0.642
EMP2	green	-0.599	-0.663
EPAS1	green	-0.795	-0.728
EPB41L4A	green	-0.646	-0.608
EPB41L4B	green	0.900	0.931
EPHA1	green	-0.691	-0.723
EPHA4	green	0.831	0.937
EPHA6	green	0.698	0.424
ETV5	green	0.429	0.684
EXOC6	green	0.783	0.873
EXOSC10	green	-0.496	-0.728
EXTL1	green	0.816	0.961

FAM110B	green	0.611	0.598
FAM110C	green	0.661	0.661
FAM13A-AS1	green	-0.706	-0.731
FAM155B	green	0.711	0.498
FAM159A	green	-0.705	-0.467
FAM161B	green	0.746	0.861
FAM162A	green	0.370	0.572
FAM176C	green	-0.764	-0.878
FAM190A	green	0.753	0.612
FAM198A	green	-0.755	-0.935
FAM19A1	green	0.869	0.907
FAM212B	green	0.811	0.474
FAM22G	green	-0.730	-0.680
FAM40B	green	0.713	0.813
FAM46B	green	-0.501	-0.547
FAM47A	green	0.615	0.479
FAM65B	green	0.875	0.925
FAM78B	green	0.862	0.869
FBXL2	green	0.781	0.959
FBXO34	green	0.832	0.876
FBXO41	green	0.909	0.976
FCHSD1	green	-0.770	-0.785
FHOD3	green	0.881	0.963
FIG4	green	0.817	0.897
FITM1	green	-0.638	-0.670
FKBP4	green	0.793	0.789
FKBP9	green	-0.527	-0.426
FLG	green	0.637	0.596
FLRT2	green	0.684	0.741
FNBP4	green	-0.786	-0.923
FOXM1	green	-0.816	-0.787
FOXP1	green	0.854	0.656
FRA10AC1	green	-0.700	-0.476
FSIP2	green	-0.693	-0.758
FXR2	green	0.522	0.492
GABBR2	green	0.907	0.871
GABRA5	green	0.782	0.931
GABRB3	green	0.895	0.964
GALNTL6	green	0.760	0.873
GATAD2A	green	-0.747	-0.740
GFAP	green	-0.799	-0.924
GGCT	green	0.621	0.713
GGT5	green	-0.490	-0.877
GGTA1P	green	-0.735	-0.630
GJD2	green	0.676	0.807
GJD4	green	0.891	0.916
GK-AS1	green	-0.631	-0.482

GLIPR1L1	green	-0.642	-0.795
GLOD4	green	0.544	0.858
GLT8D2	green	0.856	0.679
GLYR1	green	0.616	0.708
GMPR	green	-0.640	-0.622
GNAZ	green	0.790	0.943
GNG4	green	0.406	0.807
GNPTAB	green	0.483	0.573
GOLGA2B	green	-0.706	-0.717
GOSR2	green	0.713	0.562
GPATCH8	green	-0.699	-0.807
GPM6A	green	0.562	0.578
GPR153	green	0.921	0.426
GPR26	green	0.774	0.644
GPR75	green	-0.725	-0.719
GPR83	green	0.696	0.556
GPRIN1	green	0.823	0.942
GRAMD1B	green	0.841	0.871
GREM2	green	0.928	0.768
GRIA1	green	0.855	0.964
GRIA2	green	0.877	0.874
GRIA3	green	0.873	0.778
GRIN2B	green	0.871	0.814
GRK5	green	0.858	0.647
GS1-211B7.1	green	0.612	0.876
GSG1L	green	0.692	0.910
GSK3A	green	0.779	0.958
GSTM2P1	green	-0.500	-0.402
GYS2	green	-0.859	-0.571
HAPLN1	green	0.208	0.443
HCN4	green	0.789	0.795
HES1	green	-0.784	-0.623
HESX1	green	-0.582	-0.509
HIST1H3D	green	0.452	0.422
HIVEP2	green	0.673	0.816
HIVEP3	green	0.627	0.625
HLX	green	-0.619	-0.564
HMP19	green	0.966	0.958
HOMER1	green	0.701	0.675
HOMER3	green	-0.849	-0.738
HPCAL4	green	0.951	0.918
HPD	green	-0.816	-0.618
HPGD	green	0.293	0.594
HRASLS	green	0.867	0.828
HSPBAP1	green	-0.604	-0.757
HTR2A	green	0.825	0.831
HTR4	green	0.648	0.796

HTR7P1	green	0.753	0.839
HTT	green	0.858	0.935
HYOU1	green	0.849	0.707
ID1	green	-0.755	-0.614
ID3	green	-0.882	-0.674
IDI2-AS1	green	-0.586	-0.827
IDS	green	0.878	0.933
IFIT1	green	0.681	0.833
IGSF3	green	0.749	0.858
IL12A	green	-0.627	-0.753
IMPG1	green	0.694	0.697
INHA	green	-0.141	-0.473
INPP5B	green	-0.766	-0.885
IPO9	green	0.731	0.366
IQCD	green	-0.206	-0.291
IQSEC2	green	0.906	0.981
ITGA9	green	0.761	0.602
JOSD1	green	0.725	0.796
JPH1	green	0.854	0.831
KALRN	green	0.803	0.933
KCNA4	green	0.961	0.905
KCNAB1-AS2	green	-0.595	-0.378
KCNB2	green	0.674	0.910
KCNC3	green	0.814	0.968
KCNE4	green	-0.853	-0.883
KCNG1	green	0.442	0.637
KCNH5	green	0.852	0.796
KCNIP3	green	0.818	0.797
KCNJ13	green	-0.681	-0.765
KCNQ2	green	0.851	0.902
KCNQ4	green	0.582	0.840
KCTD1	green	0.764	0.776
KDM1A	green	0.771	0.692
KIAA0182	green	0.651	0.960
KIAA0319	green	0.768	0.631
KIAA0319L	green	0.612	0.251
KIAA0408	green	0.445	0.761
KIAA0513	green	0.799	0.923
KIAA0753	green	0.716	0.877
KIAA1045	green	0.893	0.945
KIAA1191	green	0.901	0.805
KIAA1549	green	0.906	0.954
KIAA1644	green	0.895	0.970
KIF21B	green	0.810	0.825
KIF26B	green	0.692	0.646
KIF3B	green	0.918	0.729
KIF3C	green	0.850	0.962

KIF5C	green	0.536	0.819
KLHL14	green	0.532	0.733
KLHL2	green	0.842	0.843
KLHL29	green	0.726	0.938
KLK5	green	0.610	0.562
KNDC1	green	0.753	0.907
KRBA2	green	-0.834	-0.638
KRTCAP3	green	-0.575	-0.882
KSR2	green	0.562	0.795
LANCL2	green	0.760	0.905
LASP1	green	0.898	0.923
LCTL	green	-0.646	-0.519
LDB2	green	0.946	0.951
LEAP2	green	-0.895	-0.909
LENG8-AS1	green	-0.613	-0.904
LGALS4	green	-0.900	-0.834
LINC00086	green	0.768	0.891
LINC00087	green	0.787	0.852
LINC00094	green	0.629	0.958
LINC00115	green	-0.465	-0.722
LINC00174	green	-0.795	-0.960
LINC00473	green	0.328	0.463
LINC00578	green	-0.638	-0.881
LINGO1	green	0.847	0.931
LINGO2	green	0.775	0.454
LMO7	green	0.752	0.863
LMOD1	green	-0.669	-0.784
LMTK3	green	0.726	0.847
LONRF2	green	0.823	0.882
LPCAT1	green	0.415	0.791
LPPR5	green	0.804	0.938
LRFN2	green	0.758	0.944
LRP2BP	green	-0.542	-0.739
LRRC59	green	0.690	0.496
LRRC7	green	0.664	0.933
LRRN2	green	0.624	0.902
LRRTM4	green	0.766	0.959
LTBP1	green	-0.804	-0.888
LUC7L2	green	-0.672	-0.802
LUZP1	green	0.660	0.599
LY6G5B	green	-0.336	-0.644
LYSMD1	green	0.624	0.826
LZTS1	green	0.779	0.765
MAMLD1	green	0.754	0.937
MAN1A1	green	0.733	0.939
MAP1A	green	0.793	0.860
MAP3K8	green	-0.845	-0.840

MAP7D3	green	-0.668	-0.738
MARK1	green	0.799	0.843
MARK2	green	0.805	0.836
MAST2	green	0.640	0.710
MAST3	green	0.792	0.920
MATN3	green	-0.592	-0.711
MCHR2	green	0.739	0.630
MCM3AP-AS1	green	-0.748	-0.668
MCU	green	0.837	0.804
MED30	green	-0.575	-0.812
MEF2D	green	0.733	0.931
MEST	green	0.835	0.921
METAP1	green	0.759	0.901
MFSD4	green	0.955	0.979
MGAT5B	green	0.769	0.860
MICB	green	-0.772	-0.693
MIR145	green	-0.485	-0.643
MIR210HG	green	-0.786	-0.765
MIR4500HG	green	0.674	0.854
MIR635	green	-0.734	-0.734
MLIP	green	0.656	0.805
MMD	green	0.768	0.764
MMP24	green	0.769	0.874
MOGAT1	green	-0.595	-0.629
MORN4	green	0.636	0.714
MOXD1	green	-0.839	-0.739
MPL	green	0.565	0.729
MRPL3	green	0.548	0.977
MRPL37	green	0.789	0.945
MRPS23	green	0.369	0.826
MSLN	green	-0.527	-0.545
MTA3	green	0.934	0.916
MTERFD3	green	-0.383	-0.639
MTUS2	green	0.846	0.776
MXD3	green	-0.589	-0.804
MYBPHL	green	-0.791	-0.802
MYC	green	-0.663	-0.686
MYH10	green	0.842	0.857
MYL12A	green	-0.780	-0.909
MYL3	green	-0.618	-0.631
MYLK3	green	0.718	0.731
MYO16	green	0.603	0.775
MYOF	green	-0.700	-0.541
MYT1L	green	0.943	0.972
NACA	green	0.168	0.309
NACC1	green	0.766	0.809
NALCN-AS1	green	-0.482	-0.562

NCEH1	green	0.938	0.855
NDEL1	green	0.674	0.934
NEDD9	green	-0.666	-0.745
NEK2	green	0.793	0.818
NEK9	green	-0.859	-0.754
NETO2	green	0.763	0.899
NEURL1B	green	0.624	0.761
NEUROD6	green	0.669	0.847
NFKBIA	green	-0.687	-0.940
NFKBIZ	green	-0.781	-0.829
NHLRC1	green	0.494	0.755
NLK	green	0.739	0.962
NNAT	green	0.808	0.803
NOP14	green	-0.717	-0.250
NOV	green	0.778	0.925
NOVA2	green	0.720	0.977
NOXRED1	green	-0.715	-0.667
NPL	green	-0.789	-0.819
NPTN	green	0.756	0.925
NPTXR	green	0.824	0.962
NPY1R	green	0.645	0.699
NR2C1	green	-0.702	-0.457
NRN1	green	0.732	0.907
NRSN1	green	0.644	0.892
NTPCR	green	0.602	0.728
NTRK3	green	0.773	0.782
NTSR1	green	0.550	0.788
NUP160	green	-0.808	-0.883
OR14I1	green	0.884	0.889
OSBPL11	green	-0.778	-0.874
OSTBETA	green	-0.826	-0.670
OTOF	green	0.636	0.615
OTOS	green	-0.812	-0.921
OTUB2	green	0.821	0.854
OXNAD1	green	0.856	0.823
PACRG	green	0.736	0.775
PAK7	green	0.872	0.871
PAPPA	green	-0.454	-0.871
PARVA	green	-0.457	-0.829
PBLD	green	-0.862	-0.738
PBX2	green	0.357	0.719
PCBD2	green	-0.771	-0.939
PCDH19	green	0.715	0.831
PCDH20	green	0.778	0.828
PCDH7	green	0.787	0.728
PCNXL2	green	0.861	0.933
PCP4L1	green	0.580	0.793

PCYT1A	green	-0.858	-0.879
PDE8B	green	0.815	0.519
PDGFA	green	-0.689	-0.382
PDHX	green	0.773	0.860
PDIA6	green	0.639	0.328
PDPK1	green	0.869	0.862
PDYN	green	0.543	0.481
PDZD2	green	0.872	0.485
PFKFB1	green	-0.769	-0.369
PGAM5	green	0.610	0.913
PHACTR1	green	0.884	0.867
PHF23	green	0.620	0.610
PHF7	green	-0.606	-0.628
PID1	green	0.923	0.855
PIP4K2B	green	0.937	0.958
PIP4K2C	green	0.890	0.904
PIP5K1B	green	0.768	0.911
PITPNM2	green	0.746	0.914
PITPNM3	green	0.838	0.962
PKD1L2	green	-0.917	-0.237
PKD2	green	-0.764	-0.906
PLAUR	green	-0.782	-0.859
PLCE1	green	-0.730	-0.845
PLD3	green	0.610	0.890
PLK2	green	0.869	0.878
PLP2	green	-0.743	-0.844
PLS1	green	0.784	0.797
PLXNA2	green	0.773	0.788
PLXNA4	green	0.872	0.946
PMAIP1	green	-0.469	-0.787
PMFBP1	green	-0.705	-0.615
POLR2K	green	0.504	0.786
POU5F1P3	green	-0.710	-0.459
PPAP2A	green	-0.527	-0.849
PPFIA1	green	-0.870	-0.965
PPIEL	green	-0.686	-0.613
PPP1R11	green	0.474	0.957
PPP1R14C	green	0.870	0.874
PPP2R2C	green	0.791	0.964
PPP4R4	green	0.856	0.954
PPPDE2	green	0.635	0.849
PRAGMIN	green	0.788	0.813
PRDM11	green	0.761	0.823
PRDM8	green	0.866	0.891
PRKAG2	green	0.747	0.799
PRKCB	green	0.844	0.893
PRKCD	green	0.899	0.832

PRKG2	green	0.817	0.870
PRPS2	green	0.766	0.876
PRR19	green	0.880	0.562
PRRC2A	green	0.803	0.771
PRRG3	green	0.900	0.906
PRRT1	green	0.646	0.823
PRSS12	green	0.810	0.800
PRSS48	green	-0.689	-0.633
PRX	green	-0.679	-0.760
PSD3	green	0.724	0.838
PTBP1	green	-0.772	-0.855
PTCD1	green	-0.784	-0.455
PTDSS1	green	0.795	0.902
PTGDR2	green	-0.650	-0.487
PTHLH	green	0.719	0.644
PTPN21	green	-0.907	-0.928
PTPN7	green	-0.557	-0.459
PTPRA	green	0.618	0.856
PTPRN2	green	0.897	0.940
PTPRO	green	0.891	0.935
PVRL3	green	0.773	0.491
PVRL3-AS1	green	0.855	0.709
PXDC1	green	-0.812	-0.937
PXN	green	-0.918	-0.725
RAB11FIP4	green	0.828	0.935
RAB15	green	0.921	0.915
RAB25	green	-0.742	-0.743
RAB35	green	0.707	0.800
RAB3D	green	0.750	0.511
RAB3IL1	green	-0.786	-0.768
RAB7L1	green	-0.625	-0.761
RABGEF1	green	-0.787	-0.741
RABIF	green	0.832	0.959
RAD23B	green	0.689	0.889
RAD51C	green	0.837	0.801
RAD52	green	-0.882	-0.414
RAE1	green	0.713	0.800
RALYL	green	0.850	0.883
RAP1GAP2	green	0.754	0.936
RAP2B	green	0.554	0.826
RAPGEF1	green	0.884	0.561
RARB	green	0.847	0.886
RASL12	green	-0.871	-0.933
RASSF4	green	-0.959	-0.849
RASSF5	green	0.734	0.899
RBFOX2	green	0.880	0.915
RBM47	green	-0.529	-0.795

RBMS2	green	-0.846	-0.822
RBPMS	green	-0.477	-0.852
RERE	green	0.467	0.624
RFTN1	green	0.813	0.763
RG9MTD3	green	-0.709	-0.910
RGMB	green	0.865	0.869
RGS19	green	0.691	0.313
RGS6	green	0.870	0.941
RIC3	green	0.690	0.441
RIMBP2	green	0.940	0.977
RIMS1	green	0.659	0.696
RIMS3	green	0.890	0.896
RIMS4	green	0.764	0.898
RIN2	green	-0.841	-0.841
RIN3	green	-0.566	-0.608
RIPK1	green	-0.670	-0.953
RNF165	green	0.852	0.899
RNF8	green	0.676	0.846
ROM1	green	-0.855	-0.905
RP11-1134I14.8	green	0.812	0.799
RP11-152N13.5	green	-0.572	-0.413
RP11-157P1.4	green	-0.216	-0.767
RP11-16E12.2	green	-0.410	-0.638
RP11-185P18.1	green	0.648	0.816
RP11-186N15.3	green	-0.764	-0.784
RP11-196G18.3	green	-0.537	-0.404
RP11-206L10.1	green	-0.538	-0.627
RP11-228B15.4	green	-0.789	-0.605
RP11-236J17.6	green	0.723	0.368
RP11-255G12.1	green	-0.555	-0.561
RP11-298E9.3	green	-0.651	-0.670
RP11-29H23.1	green	-0.878	-0.571
RP11-302J23.1	green	0.840	0.407
RP11-307C19.3	green	0.816	0.366
RP11-309L24.4	green	0.767	0.688
RP11-315I20.1	green	-0.739	-0.672
RP11-31F19.1	green	-0.794	-0.781
RP11-320N21.1	green	-0.637	-0.370
RP11-330L19.4	green	-0.712	-0.858
RP11-365N19.2	green	-0.911	-0.762
RP11-366M4.11	green	-0.868	-0.457
RP11-367J11.4	green	-0.502	-0.778
RP11-379F4.4	green	0.709	0.631
RP11-395P17.3	green	-0.791	-0.422
RP11-429G19.2	green	-0.534	-0.710
RP11-451M19.3	green	-0.842	-0.570
RP11-468E2.4	green	-0.772	-0.799

RP11-473O4.3	green	-0.615	-0.745
RP11-473O4.5	green	0.706	0.854
RP11-476E15.3	green	0.898	0.774
RP11-521C20.4	green	-0.682	-0.757
RP11-586D19.1	green	0.919	0.967
RP11-629G13.1	green	-0.711	-0.538
RP11-669N7.3	green	0.562	0.522
RP11-6D1.6	green	-0.733	-0.628
RP11-94C24.10	green	0.803	0.789
RP13-530H6.2	green	-0.558	-0.426
RP3-510L9.1	green	-0.528	-0.803
RP4-635E18.7	green	-0.607	-0.611
RP4-669P10.18	green	0.300	0.859
RP4-694B14.5	green	-0.726	-0.739
RP5-1055C14.7	green	-0.886	-0.704
RP5-981L23.1	green	-0.505	-0.683
RP5-997D16.2	green	-0.745	-0.700
RPAIN	green	-0.838	-0.323
RPH3A	green	0.596	0.948
RPL17	green	0.764	0.521
RPL39L	green	0.749	0.867
RTN4RL1	green	0.801	0.966
RUNX3	green	-0.637	-0.789
RYK	green	-0.651	-0.945
S100A10	green	-0.656	-0.451
S100A2	green	-0.855	-0.916
SAPCD1-AS1	green	0.592	0.274
SATB1	green	0.842	0.955
SATB2	green	0.718	0.881
SCARNA20	green	-0.593	-0.577
SCN11A	green	-0.780	-0.704
SCN2A	green	0.642	0.868
SCN3B	green	0.846	0.939
SDC1	green	0.871	0.474
SDK1	green	0.660	0.686
SDPR	green	-0.626	-0.891
SELP	green	-0.769	-0.333
SEMA4F	green	0.783	0.928
SERINC2	green	-0.785	-0.696
SERPINF2	green	-0.773	-0.663
SFXN1	green	0.497	0.928
SH2D4A	green	-0.757	-0.694
SH3KBP1	green	0.686	0.738
SH3PXD2A	green	0.683	0.762
SH3RF3	green	0.516	0.715
SHANK1	green	0.893	0.981
SHANK2	green	0.892	0.956

SHISA9	green	0.795	0.783
SHMT1	green	-0.735	-0.612
SHROOM3	green	0.601	0.713
SIAH2	green	0.731	0.922
SIAH3	green	0.459	0.660
SIRPA	green	0.718	0.896
SKAP2	green	0.697	0.920
SLC16A3	green	-0.772	-0.743
SLC17A7	green	0.800	0.963
SLC23A1	green	-0.598	-0.539
SLC24A1	green	-0.743	-0.411
SLC24A4	green	0.529	0.626
SLC28A2	green	-0.604	-0.860
SLC2A1	green	-0.794	-0.569
SLC2A3	green	0.837	0.330
SLC30A3	green	0.725	0.908
SLC43A3	green	-0.871	-0.790
SLC44A5	green	0.652	0.537
SLC45A4	green	0.817	0.907
SLC8A2	green	0.764	0.979
SLC8A3	green	0.685	0.936
SLCO2A1	green	0.834	0.874
SMAD3	green	0.764	0.871
SMAP2	green	0.867	0.974
SMARCA2	green	0.796	0.525
SMARCD2	green	-0.950	-0.777
SMC1B	green	-0.748	-0.585
SMG7	green	0.716	0.836
SMPD3	green	0.804	0.895
SMTNL2	green	-0.531	-0.948
SNHG12	green	-0.712	-0.826
SNORA65	green	-0.723	-0.809
SNORD109A	green	-0.452	-0.768
SNORD69	green	-0.741	-0.509
SNTB1	green	-0.550	-0.890
SNX2	green	0.776	0.898
SOBP	green	0.811	0.708
SORBS2	green	0.890	0.794
SPAG6	green	0.511	0.830
SPRN	green	0.824	0.887
SPTB	green	0.779	0.915
SPTBN2	green	0.725	0.969
SRGAP3	green	0.799	0.851
SRPRB	green	0.616	0.763
SRPX2	green	-0.678	-0.666
SRSF7	green	0.637	0.605
ST6GALNAC2	green	-0.780	-0.637

ST6GALNAC5	green	0.887	0.844
ST7-AS1	green	-0.845	-0.847
STAG3	green	-0.559	-0.456
STARD13-AS2	green	-0.612	-0.628
STC2	green	-0.779	-0.700
STIM1	green	0.693	0.920
STIP1	green	0.803	0.432
STOX2	green	0.575	0.874
STRAP	green	0.815	0.925
STX19	green	-0.854	-0.386
STXBP1	green	0.727	0.946
SUSD4	green	0.835	0.903
SYNGAP1	green	0.867	0.965
SYNPO	green	0.858	0.888
SYT15	green	0.568	0.713
SYTL4	green	-0.739	-0.798
TAC3	green	0.787	0.651
TACR2	green	0.828	0.925
TAF4B	green	0.851	0.637
TAF8	green	-0.839	-0.760
TAS2R20	green	-0.620	-0.412
TATDN2	green	0.884	0.962
TBC1D22B	green	0.948	0.770
TC2N	green	0.774	0.663
TCF7L2	green	-0.750	-0.807
TEF	green	0.558	0.778
TEK	green	0.897	0.716
TENC1	green	-0.728	-0.864
TGFB3	green	-0.754	-0.724
TIMP3	green	-0.735	-0.853
TIPARP-AS1	green	-0.487	-0.560
TM2D3	green	0.810	0.772
TMEM127	green	0.675	0.826
TMEM14A	green	0.500	0.808
TMEM182	green	0.801	0.574
TMEM200C	green	0.860	0.855
TMEM229B	green	0.707	0.881
TMEM39A	green	-0.765	-0.842
TNFAIP1	green	0.692	0.633
TNFAIP8	green	-0.397	-0.608
TNFRSF10B	green	-0.729	-0.883
TNFRSF11A	green	0.750	0.887
TNRC6A	green	-0.729	-0.886
TOM1L1	green	0.835	0.811
TOMM40L	green	0.820	0.958
TOX3	green	0.685	0.441
TPM3	green	0.725	0.776

TRAF3	green	0.553	0.662
TRERF1	green	0.774	0.826
TREX2	green	-0.573	-0.492
TRIM39	green	-0.761	-0.844
TRIOBP	green	-0.888	-0.813
TRIP13	green	0.845	0.696
TSPAN17	green	0.760	0.834
TSPO	green	-0.746	-0.826
TTC18	green	-0.581	-0.837
TTC23	green	-0.919	-0.711
TTC9	green	0.875	0.937
TTYH3	green	0.702	0.786
TUB	green	0.888	0.906
TUFT1	green	0.605	0.593
UBA2	green	0.722	0.783
UNC13A	green	0.842	0.980
UNC79	green	0.802	0.878
UPP2	green	0.752	0.328
UQCC	green	0.638	0.910
UXS1	green	0.732	0.883
VASH2	green	-0.816	-0.763
VIM	green	-0.692	-0.905
VIT	green	0.836	0.857
VOPP1	green	0.737	0.741
VPS53	green	0.715	0.767
VTI1B	green	0.813	0.831
WDR82	green	0.854	0.939
WDTC1	green	0.636	0.877
WHSC1	green	0.843	0.871
WISP2	green	-0.689	-0.870
WNT2	green	0.939	0.901
WNT7A	green	0.633	0.803
WSB2	green	0.781	0.943
WSCD2	green	0.776	0.959
XRCC6BP1	green	0.555	0.412
YLPM1	green	0.426	0.694
YPEL1	green	0.596	0.418
Z95152.1	green	0.850	0.906
ZBTB49	green	-0.659	-0.533
ZBTB7C	green	0.765	0.569
ZC4H2	green	0.805	0.946
ZDHHC23	green	0.708	0.905
ZFR	green	0.847	0.606
ZNF169	green	0.781	0.679
ZNF17	green	-0.632	-0.559
ZNF18	green	-0.655	-0.382
ZNF193	green	-0.809	-0.604

ZNF215	green	0.704	0.373
ZNF238	green	0.878	0.946
ZNF259	green	0.654	0.875
ZNF264	green	-0.668	-0.790
ZNF345	green	-0.663	-0.919
ZNF417	green	-0.641	-0.197
ZNF442	green	-0.732	-0.842
ZNF469	green	0.689	0.662
ZNF491	green	-0.774	-0.680
ZNF559	green	-0.595	-0.670
ZNF565	green	-0.607	-0.514
ZNF600	green	-0.704	-0.640
ZNF621	green	-0.813	-0.805
ZNF665	green	-0.703	-0.602
ZNF697	green	0.598	0.861
ZNF7	green	-0.729	-0.808
ZNF700	green	-0.829	-0.606
ZNF783	green	-0.613	-0.832
ZNF789	green	-0.727	-0.912
ZNF799	green	-0.839	-0.574
ZNF813	green	-0.491	-0.595
ZNF823	green	-0.696	-0.610
ZSCAN18	green	0.587	0.728
AP001625.4	lightcyan	0.638	0.722
BPHL	lightcyan	0.625	0.545
C10orf12	lightcyan	-0.543	-0.616
CCDC86	lightcyan	-0.470	-0.675
FPGT-TNNI3K	lightcyan	0.833	0.533
GNG8	lightcyan	0.627	0.579
SCARNA18	lightcyan	-0.478	-0.940
TPK1	lightcyan	0.467	0.509
AC018495.2	lightyellow	0.620	0.706
ALG14	lightyellow	0.545	0.467
ANP32B	lightyellow	0.600	0.614
ATP8B5P	lightyellow	0.768	0.750
C4BPB	lightyellow	0.499	0.758
CCND2	lightyellow	-0.700	-0.547
CSRP2	lightyellow	0.673	0.812
FRG1B	lightyellow	0.467	0.871
GTF2IRD2P1	lightyellow	0.479	0.500
MYBPC3	lightyellow	0.467	0.516
NOMO3	lightyellow	-0.404	-0.757
OR2AE1	lightyellow	0.735	0.634
RP11-12A1.1	lightyellow	0.769	0.395
RP11-453E2.2	lightyellow	-0.480	-0.888
RP11-783K16.14	lightyellow	0.607	0.616
TRAK1	lightyellow	-0.248	-0.819

USP51	lightyellow	0.683	0.808
VNN2	lightyellow	0.614	0.655
WNT2B	lightyellow	0.333	0.524
AC142528.1	midnightblue	-0.627	-0.535
AIG1	midnightblue	-0.682	-0.902
ARHGEF19	midnightblue	0.798	0.811
ATP8B2	midnightblue	0.733	0.652
BAIAP2L1	midnightblue	0.582	0.635
C11orf55	midnightblue	-0.523	-0.356
C2orf43	midnightblue	-0.427	-0.648
CASZ1	midnightblue	0.639	0.632
CCDC61	midnightblue	0.668	0.599
CNIH4	midnightblue	0.711	0.805
COL1A1	midnightblue	0.653	0.504
CTA-313A17.4	midnightblue	0.468	0.739
CYP39A1	midnightblue	-0.660	-0.266
DOK7	midnightblue	0.677	0.579
FAM70B	midnightblue	0.607	0.624
GS1-259H13.2	midnightblue	-0.467	-0.562
KIRREL	midnightblue	0.510	0.754
LAMA3	midnightblue	0.510	0.535
LAMA5	midnightblue	0.778	0.613
NDNL2	midnightblue	-0.634	-0.454
NUP85	midnightblue	0.802	0.641
PGLYRP1	midnightblue	0.534	0.593
SGCA	midnightblue	0.567	0.492
SLC25A21	midnightblue	-0.703	-0.627
ZFP106	midnightblue	-0.658	-0.496
ZNF587	midnightblue	0.730	0.693
ABI3	paleturquoise	0.914	0.766
ACVR1	paleturquoise	0.576	0.769
ADAP2	paleturquoise	0.638	0.898
AOC2	paleturquoise	-0.795	-0.570
AP000266.7	paleturquoise	0.425	0.715
APOBR	paleturquoise	0.771	0.897
B2M	paleturquoise	0.683	0.747
BCL7A	paleturquoise	-0.885	-0.765
BIN2	paleturquoise	0.917	0.794
BLNK	paleturquoise	0.833	0.766
BOLA3	paleturquoise	-0.603	-0.843
BTK	paleturquoise	0.853	0.677
C19orf38	paleturquoise	0.829	0.786
C7orf63	paleturquoise	-0.584	-0.745
C9orf167	paleturquoise	0.574	0.829
CABP4	paleturquoise	0.777	0.617
CD300A	paleturquoise	0.944	0.897
CD4	paleturquoise	0.866	0.851

CD68	paleturquoise	0.960	0.950
CIITA	paleturquoise	0.776	0.688
CMTM7	paleturquoise	0.858	0.916
CRTAM	paleturquoise	-0.617	-0.594
CTSS	paleturquoise	0.872	0.809
CXCL16	paleturquoise	0.857	0.911
CYBA	paleturquoise	0.851	0.940
CYTH4	paleturquoise	0.944	0.947
DEF6	paleturquoise	0.829	0.929
DISC1	paleturquoise	0.905	0.881
DPY19L2	paleturquoise	-0.690	-0.735
ELK1	paleturquoise	-0.905	-0.792
EXOSC9	paleturquoise	-0.714	-0.721
FAM177B	paleturquoise	0.755	0.706
FBXL21	paleturquoise	-0.693	-0.799
FLI1	paleturquoise	0.826	0.804
GAB3	paleturquoise	0.894	0.870
GIMAP1	paleturquoise	0.806	0.846
GIMAP4	paleturquoise	0.675	0.834
GIMAP6	paleturquoise	0.717	0.898
GIMAP8	paleturquoise	0.691	0.860
GPC2	paleturquoise	0.868	0.744
GPR183	paleturquoise	0.847	0.925
GPSM3	paleturquoise	0.930	0.902
GRHL1	paleturquoise	-0.485	-0.774
GYPC	paleturquoise	0.557	0.711
HAVCR2	paleturquoise	0.942	0.820
HCLS1	paleturquoise	0.921	0.933
HHEX	paleturquoise	0.850	0.947
HLA-DMA	paleturquoise	0.844	0.688
HLA-DPB1	paleturquoise	0.774	0.858
IGSF6	paleturquoise	0.923	0.884
INPP5D	paleturquoise	0.954	0.945
KCNJ8	paleturquoise	0.806	0.679
KIAA0754	paleturquoise	0.891	0.815
LAT2	paleturquoise	0.937	0.935
LPAR6	paleturquoise	0.684	0.878
MAN2B1	paleturquoise	0.736	0.879
MYO1F	paleturquoise	0.696	0.973
NFAM1	paleturquoise	0.850	0.865
NFATC2	paleturquoise	0.721	0.774
PIK3AP1	paleturquoise	0.828	0.800
PLCG2	paleturquoise	0.859	0.763
PRKACA	paleturquoise	-0.797	-0.640
PTPN6	paleturquoise	0.909	0.956
PYCARD	paleturquoise	0.714	0.753
RBM3	paleturquoise	0.693	0.635

RP11-834C11.4	paleturquoise	0.967	0.759
RP11-98I9.4	paleturquoise	0.647	0.648
S100A11	paleturquoise	0.643	0.718
SLA	paleturquoise	0.684	0.824
SLC37A2	paleturquoise	0.694	0.785
SLC7A7	paleturquoise	0.669	0.835
SLCO2B1	paleturquoise	0.897	0.807
TBXAS1	paleturquoise	0.945	0.955
TEKT1	paleturquoise	-0.582	-0.583
TGFB1	paleturquoise	0.933	0.858
TGFBR2	paleturquoise	0.735	0.821
TLR6	paleturquoise	0.792	0.831
TMEM106A	paleturquoise	0.888	0.890
TMIGD2	paleturquoise	0.715	0.831
TNFAIP8L2	paleturquoise	0.751	0.914
TOX2	paleturquoise	-0.574	-0.626
TRIM38	paleturquoise	0.890	0.892
UCP2	paleturquoise	0.762	0.928
VAMP8	paleturquoise	0.750	0.636
WAS	paleturquoise	0.784	0.921
WDR19	paleturquoise	-0.472	-0.649
WNT9B	paleturquoise	-0.757	-0.729
ZCCHC18	paleturquoise	-0.744	-0.803
ZMYND15	paleturquoise	0.732	0.895
ABHD3	purple	0.749	0.883
AC004017.1	purple	0.849	0.946
AC004967.7	purple	0.865	0.958
AC005740.5	purple	0.749	0.808
AC007000.12	purple	0.878	0.694
AC009501.4	purple	0.814	0.946
AC068831.8	purple	0.472	0.870
AC092620.2	purple	0.683	0.929
AC093690.1	purple	0.624	0.799
AC093726.6	purple	0.804	0.935
ACACA	purple	-0.870	-0.940
ACADM	purple	0.806	0.651
ACLY	purple	-0.927	-0.923
ACTN2	purple	-0.702	-0.809
ADAT1	purple	-0.801	-0.911
ADCY5	purple	-0.779	-0.921
AK4	purple	0.805	0.778
ALDH1A1	purple	0.830	0.542
ANKH	purple	-0.749	-0.936
AP000487.5	purple	0.701	0.947
APBA1	purple	-0.764	-0.979
AQP11	purple	-0.669	-0.760
ARHGAP5-AS1	purple	0.742	0.859

ARMC8	purple	-0.971	-0.813
ARPC4	purple	0.702	0.555
ARR3	purple	0.427	0.430
ASB1	purple	-0.744	-0.782
ASB3	purple	0.773	0.556
ASRGL1	purple	0.904	0.952
ATP13A5	purple	0.840	0.753
ATP2A2	purple	-0.832	-0.972
B3GALTL	purple	-0.675	-0.672
BAZ1B	purple	0.565	0.762
BCAS4	purple	-0.601	-0.855
BECN1	purple	-0.918	-0.951
BRD7P3	purple	0.714	0.664
BUB3	purple	-0.523	-0.713
C11orf70	purple	0.525	0.863
C12orf33	purple	0.573	0.684
C14orf64	purple	0.767	0.604
C15orf38-AP3S2	purple	0.656	0.807
C15orf40	purple	0.742	0.870
C1orf106	purple	0.662	0.432
C1orf131	purple	0.932	0.900
C1orf162	purple	0.802	0.870
C1orf229	purple	0.651	0.762
C3orf19	purple	0.772	0.856
C7orf10	purple	0.859	0.863
C7orf41	purple	-0.673	-0.443
C8orf44	purple	0.785	0.881
C8orf76	purple	0.761	0.598
C9orf129	purple	-0.826	-0.866
C9orf37	purple	0.434	0.667
CAB39L	purple	-0.774	-0.916
CAMTA1	purple	-0.824	-0.864
CBY1	purple	0.810	0.934
CCDC144A	purple	0.842	0.544
CCDC64B	purple	-0.547	-0.540
CCDC85A	purple	-0.732	-0.871
CCDC87	purple	-0.570	-0.718
CCT6P3	purple	0.503	0.853
CDHR3	purple	0.626	0.795
CDR1	purple	-0.750	-0.130
CGNL1	purple	0.717	0.805
CGRRF1	purple	0.571	0.629
CHRDL1	purple	0.691	0.711
CHRNB1	purple	0.770	0.700
CHST10	purple	0.440	0.725
CHST5	purple	0.787	0.794
CLCN6	purple	-0.855	-0.929

CLIP2	purple	-0.808	-0.805
CLRN1-AS1	purple	0.899	0.635
CORO1C	purple	-0.886	-0.916
COTL1	purple	0.767	0.854
CREB1	purple	-0.523	-0.418
CSMD1	purple	-0.684	-0.851
CSNK2A1P	purple	-0.826	-0.865
CSTB	purple	0.586	0.675
CTC-308K20.1	purple	0.828	0.652
CTD-2003C8.1	purple	0.778	0.531
CTD-2140G10.2	purple	0.554	0.561
CTD-2260A17.2	purple	-0.629	-0.852
CTD-2292P10.4	purple	-0.587	-0.662
CTD-2555K7.2	purple	0.592	0.705
CTD-3074O7.5	purple	-0.796	-0.686
CTH	purple	0.724	0.674
CTNNB1	purple	-0.814	-0.546
CWC25	purple	0.720	0.884
CXorf1	purple	0.821	0.576
CYP20A1	purple	0.683	0.852
DAK	purple	-0.705	-0.813
DARS	purple	0.849	0.928
DCAF5	purple	0.655	0.819
DCLRE1C	purple	0.839	0.958
DECR1	purple	0.931	0.887
DFFA	purple	0.799	0.665
DIAPH3	purple	0.632	0.327
DIO2	purple	0.838	0.897
DKK3	purple	-0.892	-0.825
DMGDH	purple	0.896	0.426
DNAH7	purple	0.645	0.769
DNAJC1	purple	0.818	0.854
DOC2B	purple	-0.772	-0.775
DONSON	purple	0.807	0.609
DRD5	purple	-0.663	-0.790
DTD1	purple	-0.661	-0.688
DTX4	purple	-0.847	-0.860
DUSP22	purple	-0.732	-0.909
DYRK4	purple	0.666	0.767
E2F5	purple	0.806	0.499
EARS2	purple	-0.847	-0.904
EEF1B2	purple	-0.600	-0.654
EFHD2	purple	-0.771	-0.618
EFNA4	purple	0.727	0.672
EIF3A	purple	0.527	0.811
EMX2	purple	0.932	0.943
ENKUR	purple	0.827	0.701

ENOPH1	purple	-0.719	-0.752
ENTPD3	purple	-0.658	-0.900
ENTPD3-AS1	purple	0.776	0.740
EPHA3	purple	-0.860	-0.853
ETFDH	purple	0.871	0.881
F13A1	purple	-0.862	-0.789
FAM107A	purple	0.865	0.933
FAM110D	purple	0.806	0.497
FAM113B	purple	-0.665	-0.506
FAM117A	purple	0.555	0.670
FAM118B	purple	0.801	0.737
FAM131B	purple	-0.948	-0.970
FAM184A	purple	0.786	0.900
FAM186A	purple	0.803	0.831
FAM18B1	purple	0.733	0.822
FAM45B	purple	-0.629	-0.840
FAM89A	purple	0.801	0.901
FAS	purple	0.454	0.653
FBLN5	purple	-0.875	-0.518
FBXW2	purple	-0.927	-0.782
FGD6	purple	0.560	0.869
FJX1	purple	0.587	0.752
FOXO3B	purple	-0.798	-0.629
FOXP2	purple	-0.754	-0.788
FSD2	purple	0.869	0.842
FXYD3	purple	0.848	0.866
FYN	purple	0.893	0.823
GABPB2	purple	0.737	0.777
GCNT1	purple	-0.691	-0.803
GCSH	purple	0.745	0.726
GIGYF2	purple	0.665	0.809
GINS2	purple	0.746	0.570
GMNN	purple	0.898	0.854
GNE	purple	-0.771	-0.607
GNG5	purple	0.895	0.927
GNRHR2	purple	-0.957	-0.919
GPANK1	purple	0.629	0.502
GPATCH1	purple	0.782	0.573
GPHN	purple	-0.647	-0.837
GPR176	purple	-0.725	-0.837
GPR85	purple	-0.532	-0.888
GRIP1	purple	-0.399	-0.782
GRM1	purple	-0.698	-0.920
GRM5-AS1	purple	0.565	0.848
GS1-124K5.12	purple	-0.583	-0.332
H3F3A	purple	0.604	0.562
HERC1	purple	-0.939	-0.942

HFM1	purple	0.594	0.729
HIF1AN	purple	-0.844	-0.971
HMGCR	purple	-0.846	-0.887
HMGN3	purple	0.775	0.898
HMGXB4	purple	0.738	0.821
HPSE2	purple	0.838	0.647
HRSP12	purple	0.915	0.873
HS3ST2	purple	-0.651	-0.791
HS3ST3A1	purple	0.886	0.945
HSPA8	purple	-0.901	-0.938
HTT-AS1	purple	0.614	0.757
IARS	purple	-0.780	-0.921
IER3	purple	0.251	0.614
IL12RB2	purple	-0.643	-0.900
INPP4A	purple	-0.893	-0.972
IQCA1	purple	0.808	0.813
IQSEC1	purple	-0.851	-0.971
ISPD	purple	-0.669	-0.805
ITM2A	purple	-0.717	-0.545
ITPR2	purple	0.857	0.897
KCNJ12	purple	-0.854	-0.927
KCNJ16	purple	0.830	0.839
KCNMB3	purple	0.863	0.755
KCTD6	purple	0.609	0.619
KIAA0090	purple	-0.790	-0.829
KIAA1199	purple	-0.846	-0.936
KLHL12	purple	-0.958	-0.947
KRT31	purple	-0.700	-0.473
LAPTM4B	purple	-0.848	-0.699
LARGE	purple	-0.869	-0.924
LDOC1L	purple	-0.837	-0.893
LGALS3	purple	0.877	0.954
LGMN	purple	-0.805	-0.918
LINC00343	purple	-0.610	-0.593
LMNB1	purple	0.702	0.820
LRP11	purple	-0.899	-0.860
LRRC47	purple	-0.865	-0.817
LRRC55	purple	-0.767	-0.944
LRRFIP1P1	purple	0.671	0.750
LSAMP-AS3	purple	0.720	0.834
LUC7L	purple	0.765	0.928
LURAP1L	purple	-0.554	-0.806
MACROD2-AS1	purple	0.560	0.424
MAGED2	purple	-0.769	-0.804
MAGOH	purple	0.674	0.705
MAP3K5	purple	0.745	0.789
MAP4K2	purple	-0.930	-0.892

MARCH2-1	purple	0.728	0.468
MARK3	purple	0.660	0.893
MATN1	purple	-0.625	-0.509
ME1	purple	0.346	0.586
MEIS2	purple	0.737	0.834
MEMO1	purple	-0.710	-0.416
METTL12	purple	0.253	0.722
MFAP1	purple	0.504	0.685
MFI2-AS1	purple	0.515	0.787
MGAT4C	purple	0.612	0.850
MIR155HG	purple	0.657	0.576
MIR29C	purple	0.655	0.844
MKX	purple	-0.845	-0.777
MNT	purple	-0.787	-0.751
MOSPD3	purple	0.784	0.756
MRPL48	purple	-0.588	-0.598
MRPL53	purple	0.859	0.712
MTMR4	purple	-0.843	-0.931
MTRNR2L4	purple	0.691	0.499
MXRA5	purple	-0.847	-0.561
MYRIP	purple	-0.937	-0.926
NADKD1	purple	0.667	0.767
NANOS1	purple	0.780	0.464
NBAS	purple	-0.841	-0.799
NCAPG2	purple	-0.507	-0.613
NEK4	purple	0.533	0.602
NIF3L1	purple	-0.808	-0.880
NNT	purple	-0.894	-0.887
NOTCH2NL	purple	0.895	0.826
NPEPL1	purple	0.801	0.856
NPTX1	purple	-0.826	-0.954
NRARP	purple	0.653	0.453
NRG1	purple	-0.815	-0.952
NSRP1	purple	0.613	0.869
NTN4	purple	-0.914	-0.769
NUP93	purple	-0.672	-0.924
ODZ4	purple	-0.841	-0.925
OPHN1	purple	0.669	0.845
OR2H2	purple	0.758	0.803
OSBPL10	purple	-0.915	-0.952
PARD3	purple	0.873	0.962
PCDH11X	purple	-0.626	-0.538
PCDHA5	purple	-0.747	-0.935
PEBP4	purple	0.620	0.436
PFKM	purple	-0.665	-0.726
PINX1	purple	0.684	0.664
PIR	purple	0.434	0.813

PITRM1	purple	-0.863	-0.819
PKD1L3	purple	0.821	0.697
PKLR	purple	-0.582	-0.735
PLAC8L1	purple	0.432	0.880
PLBD2	purple	-0.758	-0.922
PLEKHB2	purple	-0.774	-0.913
PMCHL1	purple	0.714	0.800
PNN	purple	0.568	0.919
POLH	purple	0.936	0.637
POLR3C	purple	-0.888	-0.883
PON1	purple	0.786	0.908
POP4	purple	-0.812	-0.777
PPAPDC1B	purple	0.713	0.810
PPP1R14B	purple	0.785	0.792
PPP1R18	purple	0.759	0.721
PPP1R3C	purple	0.889	0.939
PPP1R3E	purple	0.573	0.655
PPP1R3G	purple	0.834	0.647
PRDX1	purple	0.710	0.447
PROCR	purple	-0.669	-0.322
PROP1	purple	0.683	0.727
PROX1-AS1	purple	-0.574	-0.723
PRPS1	purple	-0.756	-0.958
PRR14	purple	0.787	0.902
PRR3	purple	0.512	0.588
PRR5	purple	0.682	0.738
PSMD9	purple	0.802	0.740
PSME2	purple	0.685	0.878
PTN	purple	0.817	0.814
PTPRK	purple	-0.891	-0.908
PTPRM	purple	-0.829	-0.833
PTPRN	purple	-0.884	-0.953
PURG	purple	0.715	0.675
PWP1	purple	-0.788	-0.850
PXMP2	purple	0.624	0.866
PZP	purple	0.505	0.865
QSOX1	purple	-0.798	-0.858
RAB31	purple	0.951	0.969
RAVER2	purple	0.709	0.788
RERG	purple	0.788	0.735
RFPL3-AS1	purple	0.588	0.626
RFXANK	purple	0.858	0.875
RGS20	purple	0.914	0.936
RGS22	purple	0.544	0.789
RNF111	purple	-0.813	-0.895
RNF121	purple	-0.893	-0.836
RNF182	purple	0.811	0.873

RNF41	purple	-0.954	-0.966
RNLS	purple	-0.910	-0.761
RP11-1018J11.1	purple	-0.623	-0.790
RP11-109I13.2	purple	0.673	0.837
RP11-10K16.1	purple	0.747	0.693
RP11-124D2.6	purple	0.544	0.314
RP11-12A2.3	purple	0.776	0.651
RP11-159F24.1	purple	0.846	0.927
RP11-159F24.3	purple	-0.575	-0.763
RP11-179H18.2	purple	0.965	0.812
RP11-215A19.1	purple	0.915	0.838
RP11-288I21.1	purple	0.614	0.823
RP11-367H5.7	purple	0.388	0.910
RP11-392A22.2	purple	0.910	0.807
RP11-3D4.3	purple	0.841	0.886
RP11-428C6.1	purple	-0.942	-0.811
RP11-429B14.2	purple	0.762	0.480
RP11-480I12.4	purple	0.820	0.524
RP11-493K19.3	purple	0.702	0.769
RP11-545I5.3	purple	-0.719	-0.783
RP11-56B16.5	purple	0.885	0.631
RP11-574K11.16	purple	0.669	0.667
RP11-612B6.2	purple	0.832	0.918
RP11-625H11.1	purple	0.654	0.713
RP11-6F2.7	purple	0.633	0.659
RP11-737F9.1	purple	0.727	0.836
RP11-80H5.7	purple	0.485	0.469
RP11-85O21.5	purple	0.920	0.727
RP11-91P24.6	purple	0.713	0.643
RP11-91P24.7	purple	0.862	0.746
RP1-1J6.2	purple	0.789	0.913
RP3-449O17.1	purple	0.609	0.882
RP4-671G15.3	purple	0.748	0.867
RP4-791M13.5	purple	0.769	0.506
RP5-1027G4.3	purple	0.698	0.625
RP5-1198E17.1	purple	0.618	0.191
RP5-914P20.5	purple	0.500	0.643
RPL36A	purple	0.896	0.802
RPP21	purple	0.907	0.849
RPS7	purple	0.580	0.719
RPUSD4	purple	-0.858	-0.976
SBF1	purple	-0.741	-0.911
SEC14L1	purple	0.710	0.563
SEC16B	purple	-0.499	-0.836
SELV	purple	0.770	0.665
SERPINE2	purple	0.791	0.776
SETD5	purple	0.455	0.928

SGK196	purple	-0.774	-0.834
SGPP2	purple	-0.826	-0.547
SLC1A1	purple	-0.602	-0.967
SLC25A30	purple	0.896	0.813
SLC25A33	purple	0.894	0.764
SLC6A17	purple	-0.915	-0.963
SLIT2	purple	-0.779	-0.900
SLIT3	purple	-0.858	-0.978
SNRNP35	purple	0.814	0.830
SORCS1	purple	-0.910	-0.742
SORCS3	purple	-0.810	-0.938
SPATA18	purple	-0.673	-0.480
SPATA2	purple	-0.471	-0.841
SPOCK2	purple	-0.836	-0.889
SRI	purple	0.867	0.938
SS18L1	purple	-0.870	-0.842
SSH1	purple	-0.730	-0.778
ST7-AS2	purple	0.770	0.901
STEAP1B	purple	-0.559	-0.766
STK19	purple	0.600	0.667
SUCLG2	purple	0.913	0.854
SUSD1	purple	-0.801	-0.931
SYCP3	purple	0.961	0.971
SYNPR	purple	-0.718	-0.830
TAF3	purple	0.848	0.709
TEX15	purple	0.776	0.853
TIPIN	purple	0.796	0.708
TLN2	purple	-0.829	-0.970
TMCC2	purple	-0.696	-0.745
TMCO7	purple	-0.902	-0.765
TMEM185A	purple	-0.613	-0.674
TMEM220	purple	0.625	0.867
TMPRSS11A	purple	0.830	0.865
TNFAIP8L3	purple	-0.842	-0.783
TNFRSF21	purple	-0.839	-0.948
TNRC6B	purple	0.852	0.653
TNS3	purple	0.881	0.724
TP53I3	purple	0.845	0.795
TRAF3IP2	purple	0.889	0.934
TRAF3IP2-AS1	purple	0.847	0.880
TRIM32	purple	-0.843	-0.966
TRIM35	purple	-0.690	-0.809
TRIM4	purple	0.873	0.931
TRIP4	purple	0.604	0.673
TRPC5-AS1	purple	0.929	0.842
TSPAN12	purple	0.838	0.752
TSPYL4	purple	-0.840	-0.973

TUBGCP2	purple	-0.916	-0.776
TUBGCP5	purple	-0.564	-0.736
UBE2J2	purple	0.548	0.689
UBR4	purple	-0.803	-0.627
USP28	purple	0.639	0.278
VAV3	purple	0.598	0.645
VKORC1	purple	0.913	0.709
VSIG10	purple	0.921	0.837
WBSCR22	purple	0.890	0.563
WDR33	purple	0.681	0.415
YBX1	purple	0.820	0.703
ZBTB43	purple	0.926	0.877
ZCCHC11	purple	0.798	0.948
ZCCHC7	purple	0.883	0.861
ZCCHC8	purple	0.945	0.785
ZDHHC22	purple	-0.810	-0.875
ZFP41	purple	-0.859	-0.859
ZFPM2	purple	-0.729	-0.830
ZFYVE9	purple	-0.911	-0.975
ZNF20	purple	0.836	0.687
ZNF385A	purple	0.880	0.846
ZNF394	purple	0.668	0.617
ZNF407	purple	-0.940	-0.821
ZNF410	purple	0.947	0.937
ZNF566	purple	0.702	0.821
ZNF576	purple	-0.532	-0.557
ZNF680	purple	0.784	0.837
ZNF703	purple	0.829	0.773
ZNF709	purple	0.943	0.554
ZNF830	purple	0.558	0.667
ZSWIM7	purple	0.837	0.939
AACS	red	0.883	0.778
AAMP	red	0.898	0.589
AARS	red	0.993	0.912
AARS2	red	0.839	0.885
ABCA3	red	0.942	0.966
ABCC10	red	0.897	0.600
ABCC5	red	0.811	0.737
ABCF2	red	0.983	0.866
ABCF3	red	0.941	0.954
ABTB1	red	0.931	0.882
AC002117.1	red	-0.519	-0.630
AC006547.14	red	0.732	0.763
AC007390.6	red	-0.862	-0.784
AC018642.1	red	-0.541	-0.710
AC073869.20	red	0.946	0.883
AC079807.2	red	-0.708	-0.558

AC109333.10	red	-0.897	-0.728
AC110619.2	red	0.783	0.746
AC137723.5	red	0.813	0.476
ACAD8	red	0.761	0.790
ACAD9	red	0.788	0.863
ACE	red	0.978	0.835
ACHE	red	0.543	0.688
ACO2	red	0.935	0.778
ACOT7	red	0.972	0.921
ACTR1A	red	0.881	0.931
ACTR1B	red	0.923	0.967
ADAM11	red	0.955	0.966
ADAMTS8	red	0.855	0.834
ADC	red	0.809	0.886
ADCK2	red	0.831	0.852
ADCY9	red	0.832	0.703
ADSL	red	0.907	0.773
AFAP1L2	red	0.743	0.779
AFP	red	0.556	0.549
AGBL3	red	-0.463	-0.726
AGPAT6	red	0.796	0.323
AGRN	red	0.878	0.915
AHCY	red	0.905	0.878
AHDC1	red	0.512	0.579
AHSA1	red	0.701	0.691
AK3	red	-0.926	-0.934
AKR1B1	red	0.881	0.867
ALDH1B1	red	0.501	0.505
ALDOA	red	0.971	0.946
ALS2CR11	red	-0.841	-0.611
AMDHD2	red	0.894	0.836
AMMECR1	red	-0.620	-0.863
AMPD2	red	0.915	0.921
ANAPC10	red	-0.490	-0.616
ANGPT4	red	0.820	0.475
ANK1	red	0.490	0.747
ANKHD1	red	-0.818	-0.958
AP001610.5	red	-0.383	-0.762
AP1M1	red	0.905	0.889
AP2A1	red	0.978	0.947
AP2A2	red	0.982	0.945
AP3B1	red	-0.855	-0.832
AP3B2	red	0.956	0.940
APEH	red	0.990	0.919
APLP2	red	0.879	0.838
APP	red	0.762	0.913
ARFGAP1	red	0.854	0.697

ARHGAP9	red	0.500	0.381
ARHGEF17	red	0.927	0.855
ARHGEF26-AS1	red	-0.750	-0.855
ARID5B	red	-0.883	-0.697
ARL13B	red	-0.788	-0.940
ARL6IP6	red	-0.871	-0.854
ARMC6	red	0.956	0.744
ARMCX4	red	0.796	0.650
ASB13	red	0.541	0.870
ASB6	red	0.762	0.711
ASNA1	red	0.951	0.910
ATG4B	red	0.889	0.575
ATG9A	red	0.903	0.974
ATP13A2	red	0.951	0.958
ATP1A1	red	0.865	0.897
ATP2B3	red	0.802	0.918
ATP6V0D1	red	0.919	0.934
B3GALT4	red	0.706	0.742
B3GAT1	red	0.684	0.790
B3GNT1	red	0.807	0.789
B3GNT5	red	-0.605	-0.720
B4GALNT3	red	0.861	0.812
BAI2	red	0.837	0.937
BAIAP3	red	0.823	0.796
BCAP31	red	0.895	0.703
BCAR1	red	0.640	0.729
BCS1L	red	0.866	0.706
BLM	red	-0.669	-0.463
BMP8A	red	0.531	0.330
BMPER	red	0.909	0.898
BRF1	red	0.797	0.649
BYSL	red	0.882	0.424
C10orf35	red	0.926	0.932
C11orf10	red	-0.667	-0.305
C11orf71	red	-0.787	-0.574
C12orf44	red	0.926	0.920
C12orf56	red	-0.754	-0.579
C14orf109	red	-0.855	-0.661
C15orf33	red	-0.947	-0.806
C15orf58	red	0.794	0.669
C16orf91	red	0.874	0.777
C17orf70	red	0.772	0.671
C19orf47	red	0.701	0.706
C1orf112	red	-0.484	-0.322
C1orf27	red	-0.912	-0.918
C20orf166-AS1	red	0.485	0.521
C21orf2	red	0.927	0.869

C21orf67	red	0.911	0.789
C3orf18	red	0.933	0.815
C3orf37	red	0.787	0.692
C3orf39	red	0.934	0.921
C4BPA	red	-0.859	-0.738
C4orf22	red	-0.401	-0.428
C4orf29	red	-0.870	-0.780
C5orf43	red	-0.883	-0.683
C5orf63	red	-0.705	-0.884
C6orf225	red	-0.667	-0.495
C7orf43	red	0.907	0.911
C7orf73	red	-0.614	-0.823
C8orf37	red	-0.889	-0.528
CABIN1	red	0.841	0.884
CACNA1B	red	0.939	0.922
CACNA1I	red	0.932	0.912
CALHM1	red	0.890	0.900
CAND2	red	0.929	0.920
CAPN1	red	0.945	0.881
CARKD	red	0.721	0.381
CASKIN1	red	0.975	0.961
CC2D2B	red	-0.660	-0.742
CCDC115	red	0.691	0.870
CCDC121	red	-0.886	-0.295
CCDC160	red	-0.663	-0.687
CCDC22	red	0.926	0.726
CCDC51	red	0.885	0.884
CCDC81	red	-0.604	-0.600
CCDC88A	red	-0.837	-0.907
CCT3	red	0.683	0.667
CCT5	red	0.723	0.974
CDKN2AIP	red	-0.787	-0.744
CECR5	red	0.789	0.553
CELSR3	red	0.907	0.903
CENPI	red	-0.629	-0.571
CENPK	red	-0.549	-0.500
CENPQ	red	-0.797	-0.497
CEP85L	red	-0.926	-0.898
CETN3	red	-0.949	-0.920
CETN4P	red	-0.633	-0.418
CHD3	red	0.897	0.773
CHID1	red	0.944	0.784
CHPF2	red	0.832	0.784
CHPT1	red	-0.839	-0.840
CHRD	red	0.832	0.734
CHRNA2	red	0.427	0.659
CHRNA4	red	0.954	0.836

CIAO1	red	0.834	0.838
CIZ1	red	0.944	0.860
CLDN4	red	0.856	0.544
CLEC4A	red	-0.663	-0.513
CLPTM1L	red	0.942	0.959
CLSTN1	red	0.859	0.945
CLSTN3	red	0.858	0.957
CNOT2	red	-0.645	-0.768
CNOT4	red	-0.868	-0.539
CNTNAP1	red	0.872	0.948
COASY	red	0.625	0.680
COPS7A	red	0.941	0.951
CPLX2	red	0.829	0.949
CPNE7	red	0.866	0.627
CPSF1	red	0.888	0.613
CPSF2	red	-0.852	-0.666
CPT1C	red	0.904	0.964
CREB3	red	0.799	0.540
CRELD1	red	0.808	0.654
CSMD2	red	0.784	0.415
CSNK2B	red	-0.783	-0.632
CTAGE5	red	-0.617	-0.811
CTB-89H12.4	red	-0.947	-0.945
CTC-281B15.1	red	-0.448	-0.558
CTC-359D24.3	red	-0.820	-0.743
CTC-512J14.5	red	0.890	0.676
CTD-2335A18.1	red	0.776	0.826
CTD-2517M22.14	red	0.757	0.424
CTD-2555O16.2	red	-0.781	-0.467
CTD-3110H11.2	red	-0.702	-0.728
CTPS	red	0.848	0.937
CUL7	red	0.910	0.950
CUL9	red	0.935	0.862
CXorf40A	red	0.882	0.841
CXorf40B	red	0.830	0.957
CYFIP2	red	0.796	0.922
CYP3A4	red	-0.660	-0.770
CYP4A11	red	0.719	0.650
DAB2IP	red	0.676	0.465
DALRD3	red	0.964	0.943
DAPK1	red	0.693	0.753
DAPK3	red	0.826	0.878
DCTN1	red	0.969	0.974
DCTN3	red	0.955	0.895
DDAH1	red	-0.938	-0.843
DDX59	red	-0.830	-0.739
DENND4B	red	0.973	0.908

DEPDC4	red	-0.857	-0.580
DEPDC5	red	0.908	0.890
DGCR2	red	0.851	0.955
DGKQ	red	0.938	0.867
DGUOK-AS1	red	-0.751	-0.516
DHDDS	red	0.897	0.773
DHPS	red	0.939	0.899
DHRS4L2	red	0.912	0.533
DHRS7B	red	0.853	0.746
DHX30	red	0.972	0.897
DIMT1	red	-0.891	-0.573
DIRAS1	red	0.858	0.921
DLEU2	red	-0.805	-0.757
DNAH12	red	-0.705	-0.554
DNAJA3	red	0.833	0.845
DNAJB2	red	0.323	0.531
DNAJC5	red	0.825	0.936
DNM1	red	0.942	0.933
DPH1	red	0.960	0.681
DPYS	red	-0.694	-0.271
DPYSL4	red	0.951	0.723
EBF2	red	-0.666	-0.239
EDC4	red	0.922	0.942
EFTUD2	red	0.940	0.928
EHD3	red	0.821	0.913
EIF2B5	red	0.864	0.739
ELAC2	red	0.870	0.854
EME2	red	0.788	0.889
EMG1	red	-0.841	-0.205
ENAH	red	-0.754	-0.920
ENDOV	red	0.913	0.319
ENO2	red	0.809	0.887
ENTPD6	red	0.974	0.948
EPHA10	red	0.846	0.962
EPHB3	red	0.796	0.804
EPHB6	red	0.937	0.944
ERCC2	red	0.887	0.887
ERCC3	red	0.840	0.879
ERP44	red	-0.751	-0.510
ESCO2	red	-0.470	-0.406
ESYT1	red	0.875	0.823
EVI5	red	-0.877	-0.704
EVI5L	red	0.697	0.793
EXOC3L1	red	0.912	0.924
EXOSC8	red	-0.908	-0.565
FAM113A	red	0.873	0.750
FAM131A	red	0.852	0.947

FAM163B	red	0.587	0.871
FAM171A2	red	0.846	0.919
FAM18B2	red	-0.661	-0.754
FAM211A	red	0.772	0.863
FAM50B	red	0.838	0.788
FAM65A	red	0.880	0.848
FAM72A	red	0.686	0.807
FAM73B	red	0.799	0.782
FARS2	red	0.826	0.861
FARSA	red	0.967	0.979
FBXO18	red	0.905	0.635
FBXO31	red	0.961	0.867
FDXACB1	red	-0.778	-0.334
FER	red	-0.884	-0.954
FH	red	0.779	0.666
FHL2	red	0.923	0.907
FIBP	red	0.896	0.878
FLT3	red	0.399	0.624
FMN2	red	-0.675	-0.727
FMO2	red	-0.707	-0.808
FOXK2	red	0.578	0.816
FOXS1	red	0.678	0.425
FTSJ1	red	0.750	0.840
FTSJD2	red	0.641	0.809
FURIN	red	0.904	0.502
FXR1	red	-0.801	-0.716
GAA	red	0.511	0.531
GALNS	red	0.629	0.705
GATAD1	red	-0.926	-0.949
GBA2	red	0.956	0.922
GBAS	red	-0.833	-0.725
GDI1	red	0.848	0.933
GDPD5	red	0.791	0.821
GEMIN4	red	0.744	0.807
GFOD2	red	0.915	0.909
GGA3	red	0.802	0.959
GGT7	red	0.886	0.979
GHDC	red	0.682	0.630
GK	red	-0.474	-0.686
GK3P	red	-0.646	-0.604
GLB1L2	red	0.855	0.877
GMCL1	red	-0.640	-0.610
GMPR2	red	0.836	0.901
GNB1	red	0.789	0.880
GPAA1	red	0.862	0.874
GPR132	red	0.724	0.571
GPR19	red	-0.655	-0.370

GPR45	red	0.747	0.835
GPR68	red	0.819	0.732
GRIK5	red	0.902	0.848
GRIN1	red	0.973	0.948
GRM4	red	0.882	0.937
GSS	red	0.916	0.834
GTF2F2	red	-0.867	-0.489
GUCA1A	red	0.602	0.719
GUSBP4	red	0.872	0.731
HARS	red	0.715	0.790
HCN2	red	0.926	0.907
HCN3	red	0.807	0.779
HDLBP	red	0.762	0.816
HEBP2	red	-0.560	-0.771
HGS	red	0.854	0.766
HIBCH	red	-0.870	-0.797
HIPK4	red	0.824	0.835
HNRNPA2B1	red	-0.756	-0.693
HNRNPR	red	-0.723	-0.396
HOGA1	red	-0.670	-0.642
HOMEZ	red	-0.861	-0.634
HPS1	red	0.852	0.650
HPS6	red	0.925	0.914
HR	red	0.628	0.923
HSPA12B	red	0.567	0.647
HSPB11	red	-0.875	-0.447
HTRA2	red	0.808	0.945
ICAM3	red	0.635	0.782
IDUA	red	0.858	0.566
IFFO1	red	0.695	0.778
IFT122	red	0.851	0.857
IFT172	red	0.807	0.457
IFT88	red	-0.794	-0.726
IGFBP2	red	0.712	0.829
IGSF8	red	0.877	0.935
IGSF9B	red	0.749	0.379
INCENP	red	0.899	0.923
ING3	red	-0.867	-0.772
INPP5A	red	0.921	0.916
INPP5J	red	0.802	0.761
INTS1	red	0.964	0.872
INTS12	red	-0.963	-0.856
IP6K1	red	0.815	0.909
IQCK	red	-0.811	-0.724
IRF2BP2	red	-0.906	-0.696
IRF2BPL	red	0.457	0.471
IRF3	red	0.872	0.540

IRGQ	red	0.592	0.770
ITGA11	red	0.555	0.440
IWS1	red	-0.819	-0.442
JRK	red	0.745	0.473
KATNB1	red	0.973	0.957
KBTBD10	red	-0.672	-0.325
KCNH2	red	0.951	0.853
KCNJ11	red	0.865	0.951
KCNK1	red	0.794	0.922
KCNK9	red	0.865	0.928
KCNS3	red	0.221	0.678
KCNT1	red	0.878	0.910
KHK	red	0.906	0.894
KIAA0100	red	0.665	0.875
KIAA0226	red	0.805	0.903
KIAA0284	red	0.814	0.950
KIAA0664	red	0.839	0.828
KIF1A	red	0.861	0.939
KIRREL3	red	0.576	0.863
KLC2	red	0.926	0.889
KLHDC8A	red	0.474	0.676
KLHL18	red	0.867	0.776
KLHL5	red	-0.681	-0.750
KRBA1	red	0.580	0.634
L1CAM	red	0.942	0.958
L2HGDH	red	-0.607	-0.575
L3MBTL2	red	0.806	0.727
LAMB3	red	0.845	0.828
LCN8	red	0.658	0.379
LECT1	red	-0.503	-0.537
LEPROT	red	-0.857	-0.861
LHFPL4	red	0.927	0.919
LIG1	red	0.747	0.521
LIMK1	red	0.949	0.857
LIMS1	red	-0.906	-0.910
LINC00242	red	0.793	0.714
LINC00467	red	-0.829	-0.723
LPP	red	-0.705	-0.930
LRAT	red	-0.526	-0.900
LRR1	red	-0.905	-0.911
LRRC14	red	0.957	0.984
LRRC16B	red	0.743	0.845
LRRC19	red	-0.791	-0.740
LRRC58	red	-0.893	-0.816
LRRC73	red	0.943	0.866
LRRFIP2	red	-0.691	-0.880
LRRK1	red	0.742	0.804

LSM6	red	-0.782	-0.716
LVRN	red	-0.657	-0.587
LYNX1	red	0.815	0.953
LYPLAL1	red	-0.926	-0.897
LZTR1	red	0.936	0.706
MADD	red	0.752	0.946
MAEA	red	0.912	0.903
MAP3K12	red	0.958	0.873
MAPK13	red	0.911	0.915
MAPK8IP3	red	0.943	0.972
MAPKBP1	red	0.905	0.637
MAST1	red	0.953	0.931
MBD1	red	0.897	0.872
MCF2L	red	0.745	0.761
MED24	red	0.829	0.800
MEGF8	red	0.850	0.923
METTL19	red	0.559	0.544
MEX3D	red	-0.835	-0.762
MGAT3	red	0.731	0.957
MGRN1	red	0.754	0.558
MID1IP1-AS1	red	-0.632	-0.744
MIR621	red	0.718	0.590
MKL1	red	0.831	0.476
MKRN2	red	0.593	0.645
MLH3	red	-0.751	-0.933
MLK7-AS1	red	-0.533	-0.661
MMS19	red	0.940	0.925
MOCS3	red	0.502	0.828
MORN1	red	0.834	0.432
MPPED1	red	0.889	0.929
MPRIP	red	0.841	0.865
MRPL17	red	0.841	0.678
MTUS2-AS1	red	0.688	0.596
MYBBP1A	red	0.924	0.833
MYH15	red	-0.685	-0.556
MYO7A	red	0.594	0.820
N4BP2L1	red	-0.632	-0.457
N4BP2L2	red	-0.870	-0.897
N4BP3	red	0.714	0.915
NARF	red	0.735	0.370
NAT8L	red	0.909	0.705
NBR2	red	-0.530	-0.432
NCAPH2	red	0.980	0.874
NCLN	red	0.879	0.602
NCOR2	red	0.613	0.820
NDUFS7	red	0.804	0.813
NDUFV1	red	0.951	0.893

NECAB3	red	0.861	0.923
NEK1	red	-0.701	-0.830
NEK5	red	-0.742	-0.520
NEU1	red	0.975	0.718
NEURL4	red	0.974	0.944
NFE2L1	red	0.901	0.963
NGEF	red	0.958	0.954
NICN1	red	0.903	0.923
NIPBL	red	-0.933	-0.856
NISCH	red	0.957	0.947
NKAP	red	-0.512	-0.402
NKTR	red	-0.722	-0.874
NLE1	red	0.939	0.937
NLGN2	red	0.718	0.862
NLRP14	red	-0.540	-0.500
NOL8	red	-0.937	-0.714
NOMO1	red	0.807	0.873
NOTUM	red	0.750	0.475
NPM1	red	-0.776	-0.588
NRXN2	red	0.700	0.793
NSUN6	red	-0.829	-0.619
NTN3	red	0.690	0.597
NUDCD3	red	0.938	0.953
NUDT18	red	0.659	0.536
NUF2	red	-0.757	-0.699
OBSCN	red	0.870	0.425
OGDHL	red	0.930	0.836
OGG1	red	0.804	0.351
OPRD1	red	0.754	0.910
OSGEPL1	red	-0.889	-0.712
P2RY14	red	-0.467	-0.830
P4HTM	red	0.945	0.872
PABPC4L	red	0.739	0.302
PACS1	red	0.849	0.697
PANK4	red	0.873	0.893
PAPOLB	red	-0.659	-0.577
PARVB	red	0.850	0.798
PCDHA7	red	0.762	0.772
PCGF6	red	-0.684	-0.819
PDGFB	red	0.781	0.931
PDPN	red	-0.520	-0.770
PDXK	red	0.697	0.741
PEF1	red	0.953	0.768
PES1	red	0.936	0.461
PEX11B	red	0.794	0.843
PEX14	red	0.876	0.880
PEX5	red	0.547	0.855

PEX6	red	0.472	0.594
PFAS	red	0.784	0.915
PGGT1B	red	-0.940	-0.877
PGM5P2	red	-0.744	-0.591
PGS1	red	0.859	0.758
PHB	red	0.748	0.794
PHC1	red	0.343	0.171
PHF3	red	-0.921	-0.910
PI4KA	red	0.694	0.936
PICK1	red	0.703	0.669
PIH1D1	red	0.864	0.797
PIP5K1A	red	-0.740	-0.791
PISD	red	0.780	0.769
PITPNM1	red	0.930	0.855
PKD1	red	0.910	0.871
PKD2L2	red	-0.707	-0.766
PKM2	red	0.948	0.924
PLA2G15	red	0.844	0.892
PLA2G4C	red	0.474	0.482
PLEC	red	0.764	0.475
PLEKHA6	red	0.815	0.934
PLEKHG5	red	0.953	0.850
PLXNA1	red	0.736	0.897
PLXND1	red	0.752	0.820
PMP2	red	-0.870	-0.902
PNPLA6	red	0.970	0.940
PNPT1	red	-0.915	-0.748
PNRC1	red	-0.970	-0.821
POLD3	red	-0.706	-0.631
POLR2M	red	-0.646	-0.811
POLRMT	red	0.831	0.691
PPARD	red	0.882	0.677
PPAT	red	-0.816	-0.701
PPIL2	red	0.892	0.684
PPL	red	0.804	0.918
PPM1F	red	0.899	0.772
PPP2R1A	red	0.987	0.837
PPP2R2D	red	0.929	0.902
PPP2R4	red	0.909	0.742
PPP5C	red	0.935	0.926
PRDM1	red	-0.765	-0.835
PRDM15	red	0.751	0.524
PREB	red	0.695	0.455
PRIM2	red	-0.710	-0.505
PRMT1	red	0.890	0.494
PRMT7	red	0.872	0.866
PRPF3	red	-0.760	-0.519

PRPF38B	red	-0.880	-0.737
PRR4	red	-0.725	-0.765
PRRG4	red	-0.723	-0.786
PSMA1	red	-0.476	-0.423
PSMA3	red	-0.604	-0.923
PSMB5	red	0.638	0.762
PSMD2	red	0.919	0.938
PSMD3	red	0.969	0.937
PTGER4P2	red	0.673	0.506
PTGES	red	0.663	0.852
PTGR2	red	-0.759	-0.793
PTPN5	red	0.912	0.884
PUF60	red	0.885	0.785
RAB1B	red	0.947	0.750
RAB27A	red	-0.828	-0.809
RAB28	red	-0.853	-0.822
RAB40B	red	0.616	0.600
RAB40C	red	0.909	0.878
RAD21-AS1	red	-0.572	-0.371
RAD51AP1	red	-0.727	-0.381
RAD51D	red	0.922	0.812
RANBP10	red	0.740	0.612
RANGAP1	red	0.983	0.935
RASGRP2	red	0.824	0.858
RBBP7	red	0.720	0.591
RBM15B	red	0.579	0.654
RBM17	red	-0.840	-0.903
RBM4	red	-0.607	-0.830
RCN3	red	0.699	0.571
RELL2	red	0.525	0.741
REXO2	red	-0.717	-0.919
RFC1	red	-0.876	-0.650
RG9MTD2	red	-0.820	-0.490
RHOT2	red	0.914	0.781
RIC8A	red	0.827	0.873
RIPK2	red	-0.837	-0.795
RMND5B	red	0.922	0.805
RNF123	red	0.958	0.925
RNF187	red	0.948	0.897
RNF26	red	0.649	0.917
RNF44	red	0.825	0.839
RP11-113K21.5	red	-0.557	-0.723
RP11-119B16.2	red	-0.773	-0.528
RP11-158K1.3	red	-0.731	-0.965
RP11-166D19.1	red	-0.926	-0.773
RP11-177H13.2	red	0.814	0.455
RP11-213G2.3	red	-0.825	-0.788

RP11-266K4.9	red	0.897	0.781
RP11-286H14.4	red	0.848	0.858
RP11-323F24.1	red	-0.580	-0.670
RP11-332O19.5	red	0.732	0.752
RP11-342D11.2	red	-0.828	-0.542
RP11-382J12.1	red	-0.518	-0.742
RP11-440L14.1	red	-0.659	-0.690
RP11-444D3.1	red	-0.594	-0.472
RP11-510H23.1	red	-0.501	-0.773
RP11-658F2.8	red	-0.730	-0.770
RP11-98D18.3	red	0.773	0.729
RP13-895J2.2	red	0.727	0.840
RP4-639F20.1	red	-0.885	-0.708
RP4-749H3.1	red	0.549	0.275
RPAP1	red	0.800	0.721
RPE65	red	-0.656	-0.807
RPGR	red	-0.572	-0.883
RPL21	red	-0.526	-0.594
RPS6KL1	red	0.834	0.871
RPTOR	red	0.802	0.926
RRAGC	red	-0.723	-0.800
RUSC2	red	0.868	0.983
RXRB	red	0.934	0.907
SAE1	red	0.920	0.946
SAP30	red	-0.735	-0.568
SARM1	red	0.795	0.589
SASS6	red	-0.792	-0.851
SAV1	red	-0.863	-0.632
SCAF11	red	-0.932	-0.907
SCFD2	red	0.789	0.838
SCG3	red	-0.830	-0.539
SCNN1D	red	0.830	0.733
SCYL1	red	0.986	0.920
SDF2	red	0.923	0.800
SELS	red	-0.577	-0.767
SEMA5B	red	0.791	0.883
SEMA6C	red	0.878	0.885
SEMA7A	red	0.776	0.905
SENP6	red	-0.820	-0.752
SFXN3	red	0.940	0.923
SGCG	red	0.587	0.598
SGSM1	red	0.938	0.869
SGSM3	red	0.973	0.837
SH2B1	red	0.833	0.715
SH3BP5L	red	0.786	0.903
SH3GLB2	red	0.906	0.682
SHISA7	red	0.728	0.872

SKIV2L	red	0.911	0.727
SLC12A5	red	0.847	0.926
SLC20A1	red	0.527	0.780
SLC22A18	red	0.870	0.542
SLC27A4	red	0.887	0.973
SLC29A1	red	0.869	0.908
SLC35E3	red	-0.551	-0.691
SLC38A4	red	-0.392	-0.705
SLC39A4	red	0.711	0.775
SLC43A2	red	0.964	0.904
SLC46A3	red	-0.671	-0.619
SLC5A12	red	-0.629	-0.523
SLC7A4	red	0.878	0.934
SLC9A1	red	0.923	0.930
SMC3	red	-0.987	-0.825
SMC4	red	-0.929	-0.598
SMCR7	red	0.755	0.862
SMUG1	red	0.782	0.909
SNAP47	red	0.913	0.911
SND1	red	0.986	0.891
SNHG6	red	-0.441	-0.662
SNRPG	red	-0.871	-0.786
SNX17	red	0.729	0.894
SOGA2	red	0.671	0.721
SPAG1	red	-0.698	-0.679
SPG20	red	-0.829	-0.663
SPRYD3	red	0.925	0.943
SPTBN1	red	0.711	0.802
SPTSSA	red	-0.879	-0.885
SRBD1	red	-0.750	-0.269
SRFBP1	red	-0.874	-0.925
SRRM1	red	-0.739	-0.820
SSSCA1	red	0.871	0.867
ST7L	red	-0.898	-0.835
ST8SIA5	red	0.738	0.905
STK11IP	red	0.806	0.842
STX1B	red	0.955	0.961
STX2	red	-0.527	-0.834
SUV39H2	red	-0.747	-0.681
SV2A	red	0.839	0.879
SYNGR1	red	0.830	0.946
SYT7	red	0.804	0.886
TAOK2	red	0.840	0.853
TAX1BP3	red	-0.665	-0.518
TBC1D10B	red	0.645	0.767
TBC1D13	red	0.708	0.925
TBC1D24	red	0.757	0.804

TBC1D25	red	0.792	0.963
TBCD	red	0.918	0.957
TBRG4	red	0.923	0.932
TCEB3	red	-0.947	-0.753
TCTE1	red	0.817	0.777
TDRD12	red	-0.631	-0.378
TDRD3	red	-0.880	-0.664
TECPR1	red	0.921	0.738
TFAM	red	-0.839	-0.682
TGDS	red	-0.939	-0.903
THAP11	red	0.863	0.862
THOC1	red	-0.962	-0.886
THOC5	red	0.681	0.564
TIGD1	red	-0.581	-0.707
TM2D1	red	-0.884	-0.625
TMBIM4	red	-0.647	-0.421
TMC1	red	-0.759	-0.823
TMEM106C	red	0.945	0.713
TMEM151B	red	0.783	0.931
TMEM179	red	0.839	0.947
TMEM192	red	-0.836	-0.878
TMEM200B	red	0.620	0.526
TMEM63B	red	0.921	0.914
TMEM63C	red	0.814	0.930
TMEM8B	red	0.930	0.599
TMUB2	red	0.731	0.727
TNN	red	0.845	0.786
TNNC1	red	0.691	0.569
TNPO2	red	0.866	0.754
TNXB	red	0.547	0.419
TOLLIP	red	0.914	0.891
TOMM5	red	-0.711	-0.670
TOPORS	red	-0.727	-0.868
TPTE2	red	-0.426	-0.530
TRAP1	red	0.835	0.879
TRIM14	red	-0.745	-0.632
TRIO	red	0.720	0.382
TRMT11	red	-0.449	-0.669
TROVE2	red	-0.930	-0.921
TRPA1	red	-0.336	-0.626
TRPM2	red	0.953	0.964
TSNARE1	red	0.860	0.774
TSPAN32	red	0.640	0.667
TTBK1	red	0.862	0.968
TTC26	red	-0.849	-0.413
TTC35	red	-0.823	-0.778
TTC4	red	-0.502	-0.618

TUBGCP6	red	0.908	0.802
TXNDC12	red	-0.805	-0.379
TXNL4B	red	-0.572	-0.781
TXNRD3	red	-0.489	-0.557
TYRO3	red	0.846	0.923
TYW5	red	-0.923	-0.894
UBA1	red	0.893	0.832
UBB	red	0.889	0.810
UBE2G2	red	-0.856	-0.877
UBE2O	red	0.981	0.957
UBL4A	red	0.926	0.931
UBN2	red	-0.885	-0.925
ULK1	red	0.859	0.799
UNC13B	red	0.828	0.762
UNC5A	red	0.941	0.931
URGCP	red	0.747	0.607
URM1	red	0.824	0.607
USP20	red	0.950	0.840
USP3	red	-0.886	-0.950
USP35	red	0.859	0.918
USP5	red	0.863	0.929
USP53	red	-0.883	-0.805
VARS	red	0.931	0.871
VARS2	red	0.864	0.518
VCP	red	0.932	0.873
VEGFA	red	-0.583	-0.734
VIPR2	red	0.466	0.845
VPS18	red	0.853	0.950
VPS25	red	0.818	0.761
VPS33B	red	0.814	0.742
VPS39	red	0.805	0.808
VSTM5	red	0.548	0.842
WDR4	red	0.934	0.805
WDR74	red	0.764	0.787
WDR89	red	-0.791	-0.876
WEE1	red	-0.640	-0.862
WNK2	red	0.955	0.947
WNT5B	red	0.739	0.535
WRNIP1	red	0.872	0.838
WTAP	red	-0.809	-0.875
XRN2	red	-0.566	-0.801
YIPF2	red	0.969	0.847
YIPF3	red	0.898	0.829
YIPF6	red	-0.903	-0.917
ZACN	red	0.725	0.490
ZC3H7B	red	0.911	0.949
ZCCHC6	red	-0.916	-0.859

ZDHHC8	red	0.844	0.941
ZER1	red	0.913	0.947
ZFAND6	red	-0.787	-0.856
ZFYVE19	red	0.933	0.807
ZFYVE27	red	0.760	0.884
ZGPAT	red	0.818	0.575
ZMAT1	red	-0.943	-0.961
ZMYND10	red	0.674	0.364
ZNF124	red	-0.708	-0.638
ZNF140	red	-0.733	-0.856
ZNF213	red	0.630	0.763
ZNF222	red	-0.546	-0.375
ZNF335	red	0.937	0.564
ZNF426	red	-0.752	-0.771
ZNF430	red	-0.836	-0.951
ZNF44	red	-0.707	-0.862
ZNF48	red	0.967	0.911
ZNF497	red	0.813	0.833
ZNF500	red	0.763	0.692
ZNF501	red	-0.789	-0.664
ZNF512B	red	0.846	0.868
ZNF517	red	0.626	0.626
ZNF583	red	-0.824	-0.817
ZNF622	red	0.943	0.936
ZNF682	red	-0.899	-0.581
ZNF738	red	-0.768	-0.581
ZNF75A	red	-0.725	-0.716
ZNF763	red	-0.532	-0.499
ZNF766	red	-0.861	-0.921
ZNF782	red	-0.874	-0.418
ZNF853	red	0.639	0.410
ZNF93	red	-0.694	-0.349
ZNHIT6	red	-0.790	-0.752
ABCB10	royalblue	-0.831	-0.579
AC007621.1	royalblue	0.786	0.813
AC008073.6	royalblue	0.973	0.917
AC090699.1	royalblue	0.760	0.673
AC092839.1	royalblue	0.829	0.887
AC126544.2	royalblue	-0.752	-0.866
AC140481.8	royalblue	0.783	0.680
ADAL	royalblue	0.791	0.942
ADARB2	royalblue	-0.766	-0.711
ADNP	royalblue	-0.878	-0.949
ADNP2	royalblue	-0.871	-0.925
ANKRD11	royalblue	0.891	0.888
ANKRD33B	royalblue	-0.664	-0.754
APOBEC4	royalblue	0.868	0.675

ASAP2	royalblue	-0.756	-0.895
ASXL1	royalblue	-0.830	-0.821
ATP5I	royalblue	0.765	0.440
C11orf42	royalblue	-0.647	-0.861
C12orf65	royalblue	0.865	0.937
C3orf26	royalblue	0.887	0.798
C3orf72	royalblue	-0.805	-0.575
C9orf103	royalblue	0.831	0.794
C9orf78	royalblue	0.885	0.927
CA1	royalblue	0.970	0.617
CATSPER2P1	royalblue	0.691	0.839
CCDC18	royalblue	0.880	0.947
CCDC34	royalblue	0.843	0.946
CCDC59	royalblue	0.846	0.957
CD160	royalblue	0.940	0.772
CD3EAP	royalblue	0.956	0.822
CENPJ	royalblue	0.917	0.612
CFDP1	royalblue	0.921	0.874
CHL1-AS1	royalblue	0.894	0.790
CLIC5	royalblue	-0.711	-0.746
CNOT1	royalblue	-0.838	-0.895
CNPY2	royalblue	0.794	0.892
COMMD1	royalblue	0.782	0.872
CRLF3	royalblue	0.927	0.816
CSPP1	royalblue	0.921	0.969
CTC-228N24.3	royalblue	0.853	0.760
CTC-358I24.1	royalblue	0.783	0.769
CTD-3065J16.9	royalblue	0.834	0.725
DACT2	royalblue	-0.794	-0.529
DDX10	royalblue	0.837	0.890
DUSP28	royalblue	0.775	0.753
EAPP	royalblue	0.815	0.850
EEF1A1	royalblue	0.500	0.828
EFCAB6-AS1	royalblue	0.664	0.765
EFNA3	royalblue	0.683	0.808
ERICH1	royalblue	0.871	0.845
FAM123B	royalblue	-0.910	-0.898
FAM40A	royalblue	-0.754	-0.831
FAM89B	royalblue	0.946	0.746
FBXL22	royalblue	0.760	0.490
GAS5	royalblue	0.797	0.860
GMFG	royalblue	0.654	0.629
GRHL2	royalblue	0.666	0.868
GRK4	royalblue	0.951	0.927
GTF2H5	royalblue	0.757	0.740
GTPBP4	royalblue	0.876	0.836
HDDC2	royalblue	0.764	0.762

HEATR6	royalblue	-0.754	-0.819
HIGD2A	royalblue	0.944	0.812
HIST1H4C	royalblue	0.572	0.726
HPSE	royalblue	-0.622	-0.816
HTATSF1	royalblue	0.914	0.696
INSL5	royalblue	0.797	0.492
JPX	royalblue	0.707	0.609
KCND1	royalblue	-0.858	-0.832
KCNK10	royalblue	-0.893	-0.918
KIAA0020	royalblue	0.908	0.985
KIAA1257	royalblue	0.780	0.855
KIF15	royalblue	0.966	0.896
LIG3	royalblue	-0.803	-0.874
LINC00338	royalblue	0.584	0.948
LOH12CR1	royalblue	-0.840	-0.873
LRP8	royalblue	-0.439	-0.913
LRRIQ3	royalblue	0.556	0.671
LTV1	royalblue	0.771	0.897
MARS2	royalblue	-0.737	-0.861
MED19	royalblue	0.863	0.975
METAP2	royalblue	0.849	0.912
MPHOSPH8	royalblue	0.914	0.960
MRPL51	royalblue	0.888	0.643
MTIF3	royalblue	0.759	0.887
MTMR1	royalblue	-0.903	-0.625
N4BP2L2-IT1	royalblue	0.883	0.851
NCAPD3	royalblue	-0.918	-0.951
NDUFA6	royalblue	0.956	0.758
NEDD8	royalblue	0.580	0.594
NEMF	royalblue	0.909	0.969
NLRP9	royalblue	0.644	0.831
NME1	royalblue	0.706	0.559
NOMO2	royalblue	-0.701	-0.759
NR2F6	royalblue	0.683	0.894
OR1B1	royalblue	-0.621	-0.681
PAK1IP1	royalblue	0.887	0.940
PATE2	royalblue	0.791	0.911
PDCD5	royalblue	0.801	0.578
PDCD7	royalblue	0.947	0.976
PDE12	royalblue	-0.828	-0.855
PFN1	royalblue	0.646	0.583
PHIP	royalblue	0.867	0.932
PNISR	royalblue	0.899	0.905
POLR1A	royalblue	-0.844	-0.889
PPP1R12A	royalblue	0.878	0.882
PPP3R2	royalblue	0.820	0.795
PRINS	royalblue	0.607	0.853

PRSS37	royalblue	0.687	0.545
RBBP4	royalblue	-0.810	-0.915
RBM25	royalblue	0.929	0.962
RBM34	royalblue	0.675	0.681
RINL	royalblue	0.632	0.710
RNF224	royalblue	-0.907	-0.800
RP11-152F13.5	royalblue	0.730	0.830
RP11-167N4.2	royalblue	0.560	0.662
RP11-183E9.3	royalblue	0.832	0.891
RP11-372E1.6	royalblue	0.921	0.699
RP11-386G11.10	royalblue	0.927	0.544
RP11-434C1.1	royalblue	0.928	0.923
RP11-506O24.1	royalblue	0.800	0.889
RP11-52J3.2	royalblue	0.699	0.824
RP11-58B17.1	royalblue	0.901	0.721
RP11-933H2.4	royalblue	0.812	0.778
RP11-977G19.11	royalblue	0.812	0.796
RP11-977G19.5	royalblue	0.756	0.791
RP3-322I12.2	royalblue	0.824	0.631
RP4-604G5.1	royalblue	0.824	0.495
RP4-724E13.2	royalblue	-0.888	-0.727
RP5-934G17.2	royalblue	0.644	0.812
RPL23A	royalblue	0.797	0.615
RPL4	royalblue	0.928	0.680
RRP7A	royalblue	0.674	0.718
RSRC1	royalblue	0.865	0.843
RUSC1-AS1	royalblue	0.671	0.712
SARNP	royalblue	0.801	0.880
SCAPER	royalblue	0.814	0.964
SDCCAG8	royalblue	0.909	0.971
SFTA1P	royalblue	0.914	0.918
SHFM1	royalblue	0.843	0.736
SIAH2-AS1	royalblue	0.870	0.764
SLC34A3	royalblue	-0.860	-0.656
SLC4A7	royalblue	0.854	0.905
SLC5A4	royalblue	0.516	0.878
SLC7A1	royalblue	-0.663	-0.927
SLTM	royalblue	0.877	0.896
SMC6	royalblue	0.794	0.976
SNRNP27	royalblue	0.839	0.865
SNRPF	royalblue	0.544	0.570
SORD	royalblue	-0.791	-0.814
SOX7	royalblue	0.739	0.611
SPIN4	royalblue	-0.764	-0.879
SRSF8	royalblue	0.789	0.733
SYNJ2BP	royalblue	0.661	0.670
TBC1D16	royalblue	-0.722	-0.505

TCEAL2	royalblue	0.804	0.824
TCF19	royalblue	-0.626	-0.634
TET3	royalblue	-0.891	-0.906
TGS1	royalblue	0.930	0.988
TNFSF12	royalblue	0.782	0.717
TTF1	royalblue	0.913	0.924
TYW1	royalblue	0.370	0.829
UBE2Q2P1	royalblue	0.736	0.897
UTP14A	royalblue	0.774	0.804
WDR55	royalblue	-0.952	-0.820
WHAMM	royalblue	0.752	0.900
YTHDC1	royalblue	0.749	0.902
ZBED4	royalblue	-0.848	-0.582
ZBTB40	royalblue	-0.841	-0.746
ZC3H15	royalblue	0.877	0.850
ZCCHC14	royalblue	-0.665	-0.772
ZNF398	royalblue	-0.516	-0.888
ZNF623	royalblue	-0.603	-0.796
ZNF69	royalblue	0.821	0.853
ZNF740	royalblue	-0.669	-0.971
AC016738.4	saddlebrown	0.708	0.721
AC018720.10	saddlebrown	0.920	0.648
AC133919.6	saddlebrown	0.856	0.599
ACSBG2	saddlebrown	0.762	0.711
AGPAT1	saddlebrown	-0.664	-0.918
AIFM3	saddlebrown	0.892	0.807
AK7	saddlebrown	-0.845	-0.673
ANKLE1	saddlebrown	0.918	0.755
ANP32A	saddlebrown	-0.816	-0.710
ANXA2	saddlebrown	0.841	0.839
ANXA2P2	saddlebrown	0.834	0.820
AP000347.4	saddlebrown	0.687	0.860
AP5B1	saddlebrown	0.802	0.788
ARHGAP39	saddlebrown	0.949	0.738
BTBD19	saddlebrown	0.913	0.720
C12orf59	saddlebrown	-0.517	-0.758
C15orf62	saddlebrown	0.815	0.643
C16orf53	saddlebrown	0.782	0.762
C17orf69	saddlebrown	0.854	0.855
C5orf45	saddlebrown	0.874	0.723
C9orf133	saddlebrown	0.736	0.626
CACNA1C-AS1	saddlebrown	0.891	0.852
CCDC144NL	saddlebrown	0.751	0.543
CCDC40	saddlebrown	0.609	0.720
CCR10	saddlebrown	0.846	0.529
CDK2AP1	saddlebrown	0.764	0.534
CDK8	saddlebrown	-0.534	-0.856

COL13A1	saddlebrown	0.845	0.771
COQ7	saddlebrown	-0.947	-0.739
COX10-AS1	saddlebrown	-0.951	-0.867
CPSF4	saddlebrown	0.806	0.923
CREG1	saddlebrown	-0.873	-0.862
CSNK2A1	saddlebrown	-0.895	-0.929
CXCL17	saddlebrown	0.801	0.655
CYP2G1P	saddlebrown	0.660	0.719
DCDC2B	saddlebrown	0.817	0.844
DNAJC14	saddlebrown	-0.821	-0.674
ESR2	saddlebrown	0.528	0.708
ETFA	saddlebrown	0.801	0.569
FAM192A	saddlebrown	-0.617	-0.879
FGF22	saddlebrown	0.883	0.601
FLCN	saddlebrown	0.716	0.757
GDE1	saddlebrown	-0.812	-0.884
GP1BA	saddlebrown	0.716	0.839
GRAMD1A	saddlebrown	0.602	0.757
GTPBP5	saddlebrown	0.833	0.807
GUSBP11	saddlebrown	0.900	0.938
GZMM	saddlebrown	0.680	0.898
HEATR4	saddlebrown	0.934	0.901
HNRNPC	saddlebrown	-0.914	-0.403
HSPB8	saddlebrown	0.746	0.851
ING5	saddlebrown	0.807	0.718
INHBE	saddlebrown	0.866	0.882
ITGA10	saddlebrown	0.693	0.867
ITGA2B	saddlebrown	0.642	0.829
ITPKC	saddlebrown	0.914	0.806
KHDRBS1	saddlebrown	-0.817	-0.655
LINC00313	saddlebrown	0.571	0.711
MAP3K6	saddlebrown	0.852	0.884
MFSD7	saddlebrown	0.642	0.570
MYCBPAP	saddlebrown	0.822	0.816
MYH16	saddlebrown	0.919	0.707
NAV3	saddlebrown	-0.937	-0.966
NBPF9	saddlebrown	0.705	0.885
NLRC3	saddlebrown	0.732	0.768
NRD1	saddlebrown	-0.585	-0.653
NUDT17	saddlebrown	0.767	0.746
OSTF1	saddlebrown	-0.676	-0.789
PCOLCE	saddlebrown	0.583	0.804
PER1	saddlebrown	0.809	0.578
PIF1	saddlebrown	0.756	0.681
PKP4	saddlebrown	-0.658	-0.649
PLEKHH3	saddlebrown	0.797	0.821
PMS2P3	saddlebrown	0.696	0.522

PTGER1	saddlebrown	0.805	0.788
PTPRE	saddlebrown	-0.712	-0.849
RAB7A	saddlebrown	-0.642	-0.822
RAD9A	saddlebrown	0.830	0.715
RBP2	saddlebrown	0.850	0.699
RP11-1017G21.4	saddlebrown	0.784	0.663
RP11-125K10.4	saddlebrown	0.910	0.840
RP11-179G5.4	saddlebrown	-0.656	-0.720
RP11-202H2.1	saddlebrown	-0.662	-0.689
RP11-262D11.2	saddlebrown	-0.712	-0.787
RP11-436I24.1	saddlebrown	0.838	0.510
RP11-439E19.3	saddlebrown	0.775	0.642
RP11-566K11.2	saddlebrown	0.884	0.805
RP11-664D7.4	saddlebrown	-0.895	-0.921
RP4-728D4.2	saddlebrown	0.809	0.607
RP5-921G16.1	saddlebrown	0.548	0.887
RPA2	saddlebrown	-0.868	-0.435
RRS1	saddlebrown	0.595	0.716
RYBP	saddlebrown	-0.885	-0.717
S100A6	saddlebrown	0.920	0.771
SCARF2	saddlebrown	0.650	0.450
SCCPDH	saddlebrown	-0.848	-0.850
SEMA3C	saddlebrown	-0.821	-0.742
SLC13A4	saddlebrown	0.532	0.948
SLC22A8	saddlebrown	0.768	0.689
SMARCE1	saddlebrown	-0.930	-0.846
SPHK1	saddlebrown	0.768	0.812
ST13P4	saddlebrown	-0.880	-0.492
STAM	saddlebrown	-0.946	-0.926
STIM2	saddlebrown	-0.770	-0.704
TAC4	saddlebrown	0.821	0.606
TAS2R4	saddlebrown	0.618	0.783
TEAD2	saddlebrown	0.627	0.709
TFAP2E	saddlebrown	0.945	0.676
TFCP2	saddlebrown	-0.726	-0.889
TMEM50A	saddlebrown	-0.719	-0.904
TMPRSS9	saddlebrown	0.893	0.781
TNIP2	saddlebrown	0.593	0.853
TSPYL6	saddlebrown	0.556	0.849
UBE2B	saddlebrown	-0.871	-0.784
UBE2Z	saddlebrown	-0.898	-0.901
UGGT1	saddlebrown	-0.799	-0.751
UIMC1	saddlebrown	0.869	0.865
VASN	saddlebrown	0.882	0.871
WBP2NL	saddlebrown	0.780	0.772
XKR4	saddlebrown	-0.755	-0.616
YWHAQ	saddlebrown	-0.887	-0.955

ZDHHC1	saddlebrown	0.836	0.741
ZDHHC7	saddlebrown	-0.894	-0.712
ZFP1	saddlebrown	-0.906	-0.790
ZNF547	saddlebrown	0.846	0.857
SEPT2	salmon	-0.900	-0.901
ABCC8	salmon	0.728	0.633
ABCG8	salmon	0.723	0.769
AC003102.3	salmon	0.731	0.640
AC004967.8	salmon	-0.608	-0.657
AC005035.1	salmon	-0.732	-0.712
AC007283.5	salmon	-0.896	-0.938
AC011738.4	salmon	0.580	0.762
AC012507.3	salmon	0.897	0.817
AC018755.11	salmon	-0.549	-0.850
AC074117.10	salmon	-0.764	-0.809
AC087859.1	salmon	-0.918	-0.833
AF131216.6	salmon	-0.723	-0.790
AGPAT9	salmon	0.468	0.859
ALOXE3	salmon	0.746	0.559
ANKRD42	salmon	0.779	0.841
ANXA5	salmon	-0.928	-0.935
ANXA6	salmon	0.806	0.894
APIP	salmon	-0.822	-0.569
APLN	salmon	-0.896	-0.915
ARG2	salmon	0.563	0.628
ARHGEF33	salmon	0.501	0.848
ARMCX5	salmon	0.835	0.911
ASCC1	salmon	-0.969	-0.827
ASNS	salmon	0.776	0.866
ATP5A1	salmon	0.807	0.843
ATP5B	salmon	0.808	0.893
ATP5G3	salmon	0.779	0.876
ATP6V1H	salmon	0.821	0.966
ATXN7L3	salmon	0.884	0.892
B3GNT4	salmon	0.880	0.903
BARD1	salmon	-0.870	-0.828
BBX	salmon	-0.939	-0.764
BIRC5	salmon	-0.763	-0.483
BLCAP	salmon	0.883	0.895
BMP2	salmon	-0.667	-0.856
C10orf28	salmon	-0.539	-0.763
C11orf65	salmon	-0.679	-0.810
C1orf201	salmon	0.899	0.894
C20orf3	salmon	0.684	0.786
C21orf49	salmon	-0.847	-0.790
C2orf47	salmon	0.518	0.709
C4orf36	salmon	-0.728	-0.706

C9orf85	salmon	-0.622	-0.460
CACNA1C	salmon	0.719	0.857
CACNA1D	salmon	0.836	0.858
CACNA2D3	salmon	0.889	0.945
CALCOCO2	salmon	-0.902	-0.858
CAMK1G	salmon	0.541	0.753
CAMKK1	salmon	0.884	0.963
CAPRIN2	salmon	0.770	0.838
CARHSP1	salmon	-0.679	-0.887
CBX7	salmon	0.799	0.923
CCDC108	salmon	0.639	0.896
CCNB1	salmon	0.794	0.892
CCT2	salmon	0.779	0.571
CCT8	salmon	0.690	0.947
CDCA7L	salmon	-0.885	-0.815
CDH18	salmon	0.733	0.923
CDO1	salmon	0.692	0.925
CDR2	salmon	0.870	0.941
CHD1L	salmon	-0.819	-0.838
CHD7	salmon	-0.825	-0.854
CIT	salmon	0.704	0.729
CNN2	salmon	-0.894	-0.738
COL5A2	salmon	0.658	0.751
CPNE3	salmon	-0.912	-0.810
CRTC1	salmon	0.788	0.900
CRYGD	salmon	0.496	0.751
CTA-217C2.1	salmon	0.734	0.863
CTD-2049J23.2	salmon	0.710	0.805
CTD-2062F14.3	salmon	0.553	0.682
CTD-2339L15.1	salmon	-0.870	-0.922
CTD-2547L24.3	salmon	0.556	0.597
CTD-2562J17.4	salmon	0.695	0.890
CTIF	salmon	0.786	0.956
CUEDC2	salmon	0.730	0.770
CYB561	salmon	0.719	0.770
CYP4X1	salmon	0.893	0.960
DAZAP2	salmon	-0.868	-0.838
DCTN2	salmon	0.819	0.880
DGKA	salmon	0.839	0.588
DIAPH1	salmon	0.897	0.815
DNAH10OS	salmon	0.655	0.833
DNAJA2	salmon	0.649	0.846
DNM3OS	salmon	-0.629	-0.944
DOCK1	salmon	-0.724	-0.905
DRG1	salmon	0.728	0.825
DRP2	salmon	0.859	0.922
E2F6	salmon	-0.769	-0.753

EDAR	salmon	0.543	0.395
EMX1	salmon	0.805	0.927
ENO4	salmon	-0.877	-0.847
ENTPD7	salmon	-0.873	-0.708
EPC1	salmon	-0.767	-0.830
FADS1	salmon	-0.955	-0.871
FAM123C	salmon	0.909	0.929
FAM177A1	salmon	-0.635	-0.699
FAM46A	salmon	-0.602	-0.841
FAM47E	salmon	0.654	0.579
FHL1	salmon	0.796	0.897
FICD	salmon	-0.554	-0.942
FOXC1	salmon	-0.572	-0.791
FOXL2	salmon	-0.584	-0.589
FUT1	salmon	0.703	0.692
GEMIN2	salmon	-0.734	-0.710
GGA2	salmon	0.727	0.643
GLB1L3	salmon	0.844	0.796
GNAL	salmon	0.584	0.615
GOSR1	salmon	-0.682	-0.857
GPR88	salmon	0.901	0.855
GPSM2	salmon	-0.900	-0.833
GTF2IRD2B	salmon	-0.917	-0.848
HABP2	salmon	0.521	0.734
HAPLN4	salmon	0.840	0.931
HERC5	salmon	-0.783	-0.858
HMG20B	salmon	-0.676	-0.887
HSD3BP4	salmon	0.784	0.401
HTR3B	salmon	0.815	0.688
IAH1	salmon	0.708	0.612
IFIH1	salmon	-0.892	-0.855
IGF2BP2	salmon	-0.622	-0.675
IL1RL2	salmon	0.869	0.849
ITPRIPL2	salmon	-0.735	-0.955
KATNA1	salmon	-0.812	-0.884
KCNAB2	salmon	0.939	0.954
KCNQ1OT1	salmon	-0.588	-0.827
KIAA0146	salmon	0.862	0.882
KIAA1522	salmon	0.862	0.911
KIF2B	salmon	0.581	0.946
KLHL38	salmon	0.779	0.699
LHFPL5	salmon	0.902	0.656
LINC00240	salmon	-0.768	-0.421
LINC00336	salmon	0.654	0.434
LPXN	salmon	-0.911	-0.894
LSM14A	salmon	-0.922	-0.847
LYPD5	salmon	0.737	0.915

MDFIC	salmon	-0.846	-0.747
MDH1	salmon	0.705	0.895
ME3	salmon	0.884	0.963
METTL16	salmon	-0.863	-0.814
METTL24	salmon	0.737	0.691
MLL3	salmon	-0.871	-0.900
MNDA	salmon	-0.594	-0.839
MPP1	salmon	0.741	0.912
MTF1	salmon	-0.753	-0.899
MTX2	salmon	0.703	0.823
MYO15A	salmon	0.812	0.699
MYO6	salmon	-0.864	-0.951
NAA20	salmon	0.533	0.691
NCDN	salmon	0.902	0.940
NDUFA10	salmon	0.633	0.887
NEFH	salmon	0.572	0.911
NEK10	salmon	0.585	0.798
NFIA	salmon	-0.862	-0.854
NFS1	salmon	0.729	0.809
NIPSNAP3B	salmon	0.687	0.601
NXT2	salmon	-0.871	-0.758
OLIG1	salmon	-0.910	-0.569
ORAI1	salmon	-0.585	-0.718
P2RX6	salmon	0.793	0.896
PCDH8	salmon	0.713	0.882
PCSK5	salmon	-0.870	-0.772
PDHA1	salmon	0.776	0.869
PET112	salmon	0.917	0.705
PHACTR4	salmon	-0.841	-0.930
PHTF1	salmon	0.600	0.592
PKNOX2	salmon	0.834	0.628
PLEKHB1	salmon	-0.707	-0.660
PNKD	salmon	0.951	0.917
POPDC2	salmon	-0.515	-0.471
POU6F1	salmon	0.948	0.902
PPFIA4	salmon	0.815	0.944
PPP1R13B	salmon	0.742	0.866
PQLC3	salmon	-0.687	-0.859
PREP	salmon	0.953	0.902
PRKX	salmon	-0.555	-0.910
PRPF19	salmon	0.694	0.865
PRTG	salmon	-0.650	-0.636
PSPC1	salmon	0.826	0.729
PTH2R	salmon	0.889	0.887
PTK2B	salmon	0.855	0.736
PTP4A2	salmon	-0.790	-0.368
PXDNL	salmon	0.580	0.589

RAI14	salmon	-0.901	-0.741
RAN	salmon	0.636	0.837
RCCD1	salmon	0.730	0.827
RDX	salmon	-0.936	-0.771
REST	salmon	-0.956	-0.970
RGCC	salmon	-0.886	-0.722
RGS2	salmon	0.406	0.765
RGS7	salmon	0.648	0.903
RHBDL2	salmon	-0.825	-0.833
RIPPLY2	salmon	0.636	0.837
RIT1	salmon	-0.750	-0.891
RMND1	salmon	0.565	0.839
RNF183	salmon	-0.425	-0.680
RP11-10O17.2	salmon	-0.861	-0.432
RP11-111E14.1	salmon	-0.847	-0.841
RP11-142G7.2	salmon	0.372	0.461
RP11-169K16.9	salmon	-0.492	-0.530
RP11-20J15.3	salmon	0.923	0.463
RP11-271E2.1	salmon	0.669	0.823
RP11-317J10.2	salmon	-0.888	-0.743
RP11-416N4.4	salmon	0.886	0.844
RP11-430B1.2	salmon	0.912	0.852
RP11-566K19.6	salmon	0.664	0.864
RP11-596D21.1	salmon	-0.719	-0.720
RP11-66B24.4	salmon	0.715	0.903
RP11-707A18.1	salmon	-0.440	-0.636
RP11-723O4.6	salmon	0.910	0.862
RP11-752G15.3	salmon	-0.897	-0.619
RP11-875O11.1	salmon	0.654	0.423
RP1-62D2.3	salmon	-0.752	-0.665
RP1-71L16.2	salmon	-0.686	-0.874
RP4-742J24.2	salmon	-0.832	-0.923
RSPRY1	salmon	-0.757	-0.693
RUSC1	salmon	0.931	0.903
S100B	salmon	-0.792	-0.697
SCN4B	salmon	0.834	0.927
SEC11A	salmon	-0.745	-0.908
SIDT1	salmon	0.795	0.813
SIPA1L1	salmon	0.668	0.934
SLC25A3	salmon	0.620	0.961
SLC25A4	salmon	0.853	0.901
SLC26A11	salmon	0.405	0.390
SLC35F2	salmon	0.598	0.468
SLC6A5	salmon	0.393	0.768
SMARCC1	salmon	-0.316	-0.724
SMYD5	salmon	0.584	0.706
SNAPC4	salmon	0.884	0.708

SNN	salmon	0.829	0.943
SNORD115-45	salmon	0.684	0.672
SNPH	salmon	0.890	0.708
SP110	salmon	-0.899	-0.955
SPAG5	salmon	0.751	0.628
SPIN2A	salmon	0.452	0.707
SRRM4	salmon	0.598	0.810
SSTR3	salmon	0.846	0.962
STAR	salmon	0.909	0.873
SUGP2	salmon	0.732	0.769
SYBU	salmon	0.965	0.954
SYNE1	salmon	0.626	0.605
TACC2	salmon	0.656	0.829
TAF6	salmon	0.873	0.933
TAS2R39	salmon	-0.691	-0.556
TBCE	salmon	0.605	0.838
TESPA1	salmon	0.700	0.951
TGIF2	salmon	-0.730	-0.771
TMEM179B	salmon	-0.617	-0.388
TMEM80	salmon	-0.854	-0.535
TMOD1	salmon	0.772	0.902
TOMM34	salmon	0.874	0.958
TP53TG5	salmon	-0.879	-0.507
TPBG	salmon	0.696	0.923
TPGS2	salmon	0.786	0.939
TPM1	salmon	0.897	0.718
TPX2	salmon	0.464	0.776
TRANK1	salmon	0.767	0.826
TRIM56	salmon	-0.643	-0.960
TTC8	salmon	0.836	0.570
TUBGCP4	salmon	0.773	0.905
UACA	salmon	-0.833	-0.689
UBE2T	salmon	0.580	0.881
UQCRC2	salmon	0.642	0.879
VDAC3	salmon	0.567	0.863
VSNL1	salmon	0.870	0.946
WDR16	salmon	0.900	0.908
YES1	salmon	-0.894	-0.890
ZC2HC1C	salmon	0.407	0.888
ZCCHC24	salmon	-0.789	-0.819
ZMAT4	salmon	0.735	0.890
ZNF480	salmon	-0.894	-0.917
ZNF487P	salmon	0.638	0.446
ZNF652	salmon	-0.785	-0.859
ZNF673	salmon	0.693	0.527
ZNF677	salmon	-0.706	-0.649
ZNF774	salmon	0.462	0.811

ZNF812	salmon	-0.702	-0.731
ZNF879	salmon	-0.828	-0.650
A2M	skyblue	-0.770	-0.768
ABCA17P	skyblue	0.774	0.854
ABCG5	skyblue	0.635	0.937
AC007639.1	skyblue	0.715	0.626
AC125232.1	skyblue	-0.662	-0.758
ACOT13	skyblue	0.842	0.734
ACVR2B	skyblue	-0.820	-0.742
ADAMDEC1	skyblue	0.627	0.853
ADTRP	skyblue	-0.792	-0.722
ALDH16A1	skyblue	-0.625	-0.719
ANGEL1	skyblue	-0.861	-0.898
ANKRD32	skyblue	0.789	0.903
AP1S3	skyblue	0.807	0.535
ARF6	skyblue	-0.852	-0.779
ARHGEF15	skyblue	-0.752	-0.764
ARHGEF16	skyblue	-0.873	-0.743
ARID4A	skyblue	0.904	0.833
ART4	skyblue	0.822	0.703
ASTN2	skyblue	-0.923	-0.810
ATP5J2	skyblue	0.842	0.580
BCCIP	skyblue	0.957	0.904
C12orf40	skyblue	0.648	0.699
C14orf142	skyblue	0.888	0.714
C14orf182	skyblue	0.707	0.726
C14orf21	skyblue	-0.867	-0.887
C16orf86	skyblue	-0.709	-0.605
C1orf116	skyblue	-0.621	-0.843
C2orf73	skyblue	0.755	0.614
C3orf15	skyblue	0.810	0.914
C4orf45	skyblue	0.923	0.441
C6orf10	skyblue	0.798	0.855
CACNA2D4	skyblue	-0.859	-0.613
CARD11	skyblue	-0.864	-0.879
CDC26	skyblue	0.838	0.733
CMKLR1	skyblue	-0.717	-0.877
CMPK2	skyblue	-0.796	-0.673
CNDP2	skyblue	-0.826	-0.674
CORO7	skyblue	-0.888	-0.884
COX11	skyblue	-0.610	-0.698
CTBP1-AS1	skyblue	-0.900	-0.940
CTSK	skyblue	-0.671	-0.686
CYB561D2	skyblue	-0.787	-0.593
CYBASC3	skyblue	-0.932	-0.885
DHX16	skyblue	-0.917	-0.681
DNAJC21	skyblue	0.977	0.902

DYX1C1-CCPG1	skyblue	0.840	0.839
EML2	skyblue	-0.909	-0.721
ERCC8	skyblue	0.873	0.692
FAAH	skyblue	-0.766	-0.480
FAM210B	skyblue	0.945	0.840
FBN1	skyblue	-0.916	-0.757
FRMD8P1	skyblue	-0.866	-0.674
GABRB1	skyblue	0.846	0.900
GANAB	skyblue	-0.877	-0.939
GCN1L1	skyblue	-0.894	-0.729
GOLM1	skyblue	0.770	0.484
GTF2E2	skyblue	0.746	0.729
HERC2P9	skyblue	-0.798	-0.647
HGSNAT	skyblue	-0.660	-0.787
HIATL2	skyblue	0.842	0.601
HLA-F-AS1	skyblue	0.620	0.734
INF2	skyblue	-0.886	-0.893
ING2	skyblue	0.850	0.617
IQCJ	skyblue	0.876	0.841
L3MBTL3	skyblue	0.882	0.667
LETM2	skyblue	0.502	0.853
LIMS2	skyblue	-0.701	-0.741
LINC00478	skyblue	0.657	0.686
LSR	skyblue	-0.871	-0.559
MCAM	skyblue	-0.930	-0.707
MCM3AP	skyblue	-0.933	-0.910
MEGF6	skyblue	-0.895	-0.792
METTL3	skyblue	-0.914	-0.519
MIPOL1	skyblue	0.798	0.921
MIR137HG	skyblue	0.682	0.758
MPPE1	skyblue	-0.812	-0.672
MRPS6	skyblue	0.841	0.725
MTO1	skyblue	-0.791	-0.647
NKAIN3	skyblue	0.769	0.850
NRG4	skyblue	0.859	0.755
NSUN5	skyblue	-0.832	-0.702
NTM	skyblue	0.637	0.486
PACS2	skyblue	-0.856	-0.762
PDSS1	skyblue	0.597	0.773
PSMG2	skyblue	0.819	0.815
PTPRQ	skyblue	0.770	0.698
PYROXD1	skyblue	-0.721	-0.664
RAB11FIP1	skyblue	0.835	0.875
RCN1P2	skyblue	0.801	0.696
RDM1	skyblue	0.743	0.638
RIOK1	skyblue	0.831	0.515
RP11-181B11.2	skyblue	0.886	0.909

RP11-32K4.2	skyblue	0.839	0.523
RP11-452K12.7	skyblue	0.746	0.862
RP11-468E2.9	skyblue	0.633	0.545
RP11-499P20.2	skyblue	0.705	0.837
RP11-4K16.2	skyblue	0.852	0.848
RP11-620J15.3	skyblue	0.835	0.636
RP11-711G10.1	skyblue	0.850	0.815
RP11-84G21.1	skyblue	0.719	0.802
RP3-486L4.3	skyblue	0.834	0.934
RP4-726N20.2	skyblue	0.778	0.790
RP5-848E13.3	skyblue	0.751	0.876
RPF2	skyblue	0.776	0.914
SCARB1	skyblue	-0.792	-0.791
SLC34A2	skyblue	0.830	0.593
SLC38A5	skyblue	-0.905	-0.771
SMARCAL1	skyblue	-0.816	-0.556
SPAG17	skyblue	0.775	0.807
SPNS2	skyblue	-0.787	-0.715
SPOP	skyblue	0.832	0.772
SPRY1	skyblue	0.887	0.789
STARD9	skyblue	-0.964	-0.828
SZT2	skyblue	-0.920	-0.761
TAF12	skyblue	0.835	0.537
TMEM173	skyblue	-0.865	-0.604
TMEM67	skyblue	0.639	0.736
TOP1	skyblue	0.902	0.925
UPF2	skyblue	0.807	0.816
UPF3B	skyblue	0.860	0.929
VAT1	skyblue	-0.892	-0.861
VWA2	skyblue	-0.778	-0.821
WDR67	skyblue	0.799	0.670
WDR91	skyblue	-0.900	-0.841
WDR96	skyblue	0.894	0.920
WIPF2	skyblue	0.975	0.896
ZC3H8	skyblue	0.840	0.946
ZNF132	skyblue	-0.959	-0.653
ZNF732	skyblue	0.964	0.824
MARCH6	turquoise	0.789	0.748
MARCH7	turquoise	0.825	0.750
SEPT1	turquoise	-0.822	-0.506
AASDHPPT	turquoise	0.692	0.845
ABCA5	turquoise	0.793	0.859
ABCB9	turquoise	-0.909	-0.788
ABCC3	turquoise	-0.628	-0.635
ABCC6	turquoise	-0.707	-0.719
ABCE1	turquoise	0.856	0.550
ABCG2	turquoise	0.550	0.556

ABHD10	turquoise	0.656	0.803
ABHD13	turquoise	0.622	0.551
ABHD14B	turquoise	-0.888	-0.829
ABHD2	turquoise	0.805	0.535
ABI2	turquoise	0.949	0.622
AC004041.2	turquoise	-0.493	-0.502
AC004166.7	turquoise	-0.597	-0.721
AC004893.11	turquoise	-0.522	-0.514
AC004951.6	turquoise	-0.511	-0.879
AC004985.12	turquoise	-0.746	-0.540
AC005237.4	turquoise	-0.652	-0.480
AC005895.3	turquoise	-0.459	-0.855
AC006276.7	turquoise	-0.780	-0.861
AC006277.2	turquoise	-0.538	-0.387
AC006465.3	turquoise	0.799	0.728
AC006547.13	turquoise	-0.747	-0.924
AC006978.6	turquoise	-0.849	-0.879
AC007276.5	turquoise	0.433	0.309
AC008697.1	turquoise	0.504	0.561
AC008746.3	turquoise	-0.656	-0.676
AC009948.5	turquoise	0.575	0.783
AC010127.4	turquoise	0.731	0.608
AC011450.1	turquoise	-0.772	-0.754
AC012314.8	turquoise	-0.709	-0.661
AC012442.5	turquoise	-0.514	-0.580
AC018737.1	turquoise	-0.219	-0.557
AC022498.1	turquoise	-0.663	-0.794
AC022532.1	turquoise	-0.833	-0.701
AC034193.5	turquoise	-0.757	-0.399
AC069513.3	turquoise	-0.935	-0.542
AC074286.1	turquoise	0.823	0.653
AC078802.1	turquoise	0.751	0.613
AC079341.1	turquoise	0.597	0.920
AC083884.8	turquoise	-0.659	-0.633
AC092295.4	turquoise	-0.587	-0.571
AC092296.2	turquoise	0.849	0.685
AC092619.1	turquoise	-0.422	-0.609
AC093495.4	turquoise	-0.465	-0.881
AC097662.2	turquoise	0.587	0.667
AC103810.2	turquoise	-0.845	-0.614
AC109586.1	turquoise	-0.628	-0.516
AC110619.1	turquoise	0.678	0.545
AC115618.1	turquoise	-0.590	-0.698
AC159540.1	turquoise	-0.498	-0.387
ACAA1	turquoise	-0.743	-0.651
ACAD10	turquoise	-0.889	-0.647
ACADSB	turquoise	0.927	0.893

ACADVL	turquoise	-0.947	-0.913
ACIN1	turquoise	-0.797	-0.783
ACOT2	turquoise	-0.691	-0.664
ACP1	turquoise	0.662	0.794
ACPL2	turquoise	0.278	0.705
ACPT	turquoise	-0.757	-0.298
ACR	turquoise	-0.493	-0.647
ACSL3	turquoise	0.801	0.687
ACSL4	turquoise	0.975	0.954
ACTN3	turquoise	-0.680	-0.499
ACTR10	turquoise	0.795	0.881
ACTR2	turquoise	0.861	0.926
ACTR3	turquoise	0.799	0.907
ACTR6	turquoise	0.848	0.636
ACTR8	turquoise	0.831	0.461
ACVR1C	turquoise	0.876	0.890
ACVR2A	turquoise	0.802	0.509
ACY1	turquoise	-0.637	-0.480
ADAM22	turquoise	0.910	0.980
ADAM9	turquoise	0.905	0.773
ADAMTS5	turquoise	0.825	0.528
ADAMTSL5	turquoise	-0.623	-0.743
ADAP1	turquoise	-0.806	-0.527
ADAR	turquoise	0.624	0.874
ADAT2	turquoise	0.699	0.674
ADAT3	turquoise	-0.402	-0.846
ADD2	turquoise	0.769	0.951
ADO	turquoise	0.882	0.857
ADRBK2	turquoise	0.946	0.956
ADSS	turquoise	0.864	0.934
AFAP1	turquoise	0.739	0.715
AFF3	turquoise	0.858	0.845
AFTPH	turquoise	0.700	0.439
AGAP6	turquoise	-0.711	-0.487
AGFG1	turquoise	0.789	0.812
AGFG2	turquoise	-0.543	-0.661
AGK	turquoise	0.318	0.846
AGPAT3	turquoise	0.310	0.569
AGPS	turquoise	0.914	0.911
AGRP	turquoise	-0.508	-0.005
AGTPBP1	turquoise	0.885	0.974
AGXT2L2	turquoise	-0.779	-0.809
AIFM2	turquoise	-0.782	-0.739
AIMP2	turquoise	-0.389	-0.599
AIPL1	turquoise	-0.506	-0.450
AK1	turquoise	-0.617	-0.937
AKAP10	turquoise	0.911	0.921

AKAP11	turquoise	0.960	0.961
AKAP6	turquoise	0.784	0.979
AKAP8L	turquoise	-0.844	-0.757
AKR7A2	turquoise	-0.756	-0.657
AKR7A2P1	turquoise	-0.783	-0.359
AKT3	turquoise	0.891	0.968
AL450992.2	turquoise	0.741	0.898
ALDH1A2	turquoise	0.755	0.788
ALDH2	turquoise	-0.489	-0.819
ALDH3A2	turquoise	0.437	0.630
ALDOC	turquoise	-0.888	-0.648
ALG10	turquoise	0.822	0.619
ALG10B	turquoise	0.896	0.535
ALG13	turquoise	0.423	0.837
ALKBH2	turquoise	-0.641	-0.706
ALKBH8	turquoise	0.697	0.772
ALOX12	turquoise	-0.748	-0.806
ALS2	turquoise	0.866	0.902
ALS2CR8	turquoise	0.819	0.620
AMD1	turquoise	0.971	0.931
AMIGO1	turquoise	0.467	0.844
AMN1	turquoise	0.836	0.946
AMOTL1	turquoise	0.918	0.482
AMT	turquoise	-0.921	-0.588
ANAPC1	turquoise	0.827	0.966
ANK2	turquoise	0.800	0.918
ANK3	turquoise	0.861	0.939
ANKDD1A	turquoise	-0.614	-0.759
ANKK1	turquoise	-0.566	-0.588
ANKLE2	turquoise	0.273	0.597
ANKMY2	turquoise	0.776	0.919
ANKRD13C	turquoise	0.919	0.937
ANKRD28	turquoise	0.747	0.890
ANKRD34B	turquoise	0.743	0.769
ANKRD35	turquoise	-0.772	-0.613
ANKRD36B	turquoise	-0.466	-0.832
ANKRD39	turquoise	-0.862	-0.790
ANKRD45	turquoise	0.702	0.320
ANKRD46	turquoise	0.747	0.860
ANKRD5	turquoise	0.650	0.599
ANKRD50	turquoise	0.903	0.975
ANO5	turquoise	0.782	0.688
ANXA2P3	turquoise	-0.562	-0.703
ANXA2R	turquoise	-0.360	-0.652
AP001432.14	turquoise	0.687	0.556
AP1AR	turquoise	0.844	0.972
AP1G1	turquoise	0.939	0.883

AP1S2	turquoise	0.732	0.878
AP2B1	turquoise	0.718	0.906
AP3M2	turquoise	0.672	0.930
AP4M1	turquoise	-0.881	-0.652
AP4S1	turquoise	0.673	0.799
AP5M1	turquoise	0.927	0.941
AP5S1	turquoise	-0.721	-0.687
API5	turquoise	0.957	0.948
APOBEC3F	turquoise	-0.653	-0.680
APOL2	turquoise	-0.415	-0.548
APOOL	turquoise	0.874	0.828
APOPT1	turquoise	-0.670	-0.813
APPBP2	turquoise	0.925	0.846
APPL1	turquoise	0.931	0.939
AQP5	turquoise	-0.451	-0.790
AQP7P1	turquoise	-0.815	-0.137
ARCN1	turquoise	0.823	0.831
ARFGEF1	turquoise	0.961	0.864
ARFGEF2	turquoise	0.818	0.955
ARHGAP11A	turquoise	0.577	0.635
ARHGAP21	turquoise	0.713	0.884
ARHGAP26	turquoise	0.781	0.823
ARHGAP8	turquoise	-0.363	-0.109
ARHGEF7	turquoise	0.780	0.944
ARID3A	turquoise	-0.722	-0.938
ARIH1	turquoise	0.975	0.784
ARL1	turquoise	0.918	0.953
ARL10	turquoise	0.625	0.442
ARL15	turquoise	0.241	0.871
ARL6	turquoise	0.769	0.944
ARL6IP4	turquoise	-0.890	-0.775
ARL8B	turquoise	0.693	0.970
ARMC12	turquoise	-0.801	-0.784
ARMCX3	turquoise	0.860	0.752
ARNTL2	turquoise	0.596	0.791
ARPC1B	turquoise	-0.449	-0.721
ARPC5	turquoise	0.768	0.649
ARPP19	turquoise	0.744	0.860
ARRDC1	turquoise	-0.814	-0.674
ARSK	turquoise	0.678	0.719
ART3	turquoise	0.484	0.672
AS3MT	turquoise	-0.483	-0.675
ASAH2B	turquoise	0.859	0.957
ASB7	turquoise	0.766	0.734
ASB9	turquoise	0.388	0.156
ASB9P1	turquoise	-0.694	-0.354
ASCC2	turquoise	-0.816	-0.865

ASCL1	turquoise	-0.571	-0.442
ASH1L	turquoise	0.838	0.643
ASH2L	turquoise	0.805	0.881
ASIC3	turquoise	-0.778	-0.671
ASPRV1	turquoise	-0.442	-0.477
ATAD1	turquoise	0.883	0.960
ATAD3A	turquoise	-0.841	-0.407
ATE1	turquoise	0.884	0.980
ATF2	turquoise	0.846	0.954
ATF6B	turquoise	-0.600	-0.889
ATG2B	turquoise	0.926	0.954
ATG5	turquoise	0.716	0.832
ATG9B	turquoise	-0.869	-0.650
ATL2	turquoise	0.849	0.704
ATMIN	turquoise	0.898	0.978
ATP11B	turquoise	0.962	0.773
ATP1A4	turquoise	-0.871	-0.505
ATP2A1	turquoise	-0.787	-0.764
ATP2B1	turquoise	0.617	0.743
ATP2C1	turquoise	0.874	0.892
ATP5L2	turquoise	-0.357	-0.729
ATP5O	turquoise	0.547	0.363
ATP6V0A1	turquoise	0.459	0.874
ATP6V1A	turquoise	0.845	0.983
ATP6V1C1	turquoise	0.847	0.943
ATP8A1	turquoise	0.886	0.952
ATP8A2	turquoise	0.762	0.903
ATP9A	turquoise	0.687	0.954
ATPAF1	turquoise	0.596	0.754
ATPAF2	turquoise	-0.936	-0.313
ATR	turquoise	0.821	0.920
ATRIP	turquoise	-0.608	-0.772
ATRN	turquoise	0.845	0.957
ATXN1	turquoise	0.769	0.908
ATXN7L3B	turquoise	0.856	0.946
AUP1	turquoise	-0.928	-0.826
AURKAIP1	turquoise	-0.657	-0.639
AVEN	turquoise	-0.557	-0.603
AVL9	turquoise	0.888	0.905
AXIN1	turquoise	-0.886	-0.447
AZI1	turquoise	-0.945	-0.359
AZI2	turquoise	0.850	0.827
AZIN1	turquoise	0.987	0.911
B3GALNT1	turquoise	0.871	0.954
B3GALT2	turquoise	0.811	0.907
B3GNT2	turquoise	0.862	0.624
B4GALNT4	turquoise	-0.803	-0.619

B4GALT5	turquoise	0.765	0.972
B4GALT6	turquoise	0.855	0.906
BAG4	turquoise	0.865	0.894
BAG5	turquoise	0.840	0.862
BAIAP2L2	turquoise	-0.469	-0.535
BANK1	turquoise	0.707	0.310
BBS10	turquoise	0.717	0.858
BBS5	turquoise	-0.892	-0.572
BBS7	turquoise	0.914	0.975
BCAP29	turquoise	0.665	0.890
BCAT1	turquoise	0.890	0.893
BCAT2	turquoise	-0.884	-0.719
BCL2L13	turquoise	0.798	0.535
BCL3	turquoise	-0.623	-0.570
BCRP3	turquoise	-0.591	-0.273
BEND4	turquoise	0.816	0.910
BHLHB9	turquoise	0.956	0.958
BHMT2	turquoise	-0.498	-0.507
BICD1	turquoise	0.910	0.748
BIRC2	turquoise	0.847	0.722
BLOC1S2	turquoise	0.680	0.807
BMI1	turquoise	0.951	0.936
BMP1	turquoise	-0.750	-0.594
BMPR2	turquoise	0.947	0.919
BNIP3L	turquoise	0.819	0.957
BRAF	turquoise	0.924	0.884
BRD4	turquoise	-0.822	-0.814
BRMS1	turquoise	-0.707	-0.840
BRMS1L	turquoise	0.834	0.910
BRWD1	turquoise	0.755	0.743
BRWD1-AS1	turquoise	-0.464	-0.775
BSG	turquoise	-0.818	-0.620
BTBD1	turquoise	0.965	0.926
BTBD11	turquoise	0.461	0.614
BTBD3	turquoise	0.675	0.949
BTF3L4	turquoise	0.794	0.955
BVES-AS1	turquoise	0.424	0.587
BZW1	turquoise	0.941	0.745
C10orf107	turquoise	0.378	0.584
C10orf108	turquoise	-0.777	-0.765
C10orf116	turquoise	-0.636	-0.665
C10orf2	turquoise	-0.739	-0.511
C10orf32	turquoise	-0.713	-0.279
C10orf46	turquoise	0.822	0.842
C10orf76	turquoise	0.577	0.557
C10orf82	turquoise	0.596	0.485
C10orf88	turquoise	0.816	0.954

C11orf1	turquoise	-0.593	-0.684
C11orf45	turquoise	0.415	0.859
C11orf51	turquoise	-0.300	-0.633
C11orf75	turquoise	-0.532	-0.503
C11orf82	turquoise	0.684	0.566
C12orf23	turquoise	0.861	0.631
C12orf29	turquoise	0.599	0.697
C12orf4	turquoise	0.895	0.957
C12orf5	turquoise	0.777	0.792
C12orf51	turquoise	0.562	0.946
C12orf54	turquoise	-0.467	-0.420
C14orf159	turquoise	-0.863	-0.542
C14orf55	turquoise	-0.644	-0.722
C15orf61	turquoise	0.610	0.642
C15orf63	turquoise	-0.545	-0.868
C16orf48	turquoise	-0.645	-0.785
C16orf52	turquoise	0.633	0.706
C16orf72	turquoise	0.837	0.533
C16orf96	turquoise	-0.670	-0.659
C17orf104	turquoise	0.830	0.765
C17orf50	turquoise	-0.521	-0.775
C17orf53	turquoise	-0.697	-0.868
C18orf1	turquoise	0.817	0.934
C19orf12	turquoise	0.598	0.797
C19orf24	turquoise	-0.729	-0.451
C19orf25	turquoise	-0.604	-0.756
C19orf29	turquoise	-0.773	-0.631
C19orf43	turquoise	-0.627	-0.464
C19orf46	turquoise	-0.653	-0.806
C19orf60	turquoise	-0.702	-0.501
C19orf79	turquoise	-0.547	-0.085
C19orf81	turquoise	-0.740	-0.182
C1GALT1C1	turquoise	0.782	0.799
C1orf133	turquoise	0.548	0.501
C1orf192	turquoise	0.938	0.888
C1orf200	turquoise	-0.570	-0.575
C1orf213	turquoise	-0.730	-0.525
C1orf228	turquoise	-0.814	-0.822
C1orf35	turquoise	-0.825	-0.870
C1orf43	turquoise	0.692	0.688
C1orf54	turquoise	-0.572	-0.846
C1orf85	turquoise	0.352	0.417
C1orf86	turquoise	-0.777	-0.702
C1orf96	turquoise	0.830	0.951
C1R	turquoise	-0.586	-0.680
C1RL	turquoise	-0.819	-0.580
C2	turquoise	-0.516	-0.319

C20orf11	turquoise	0.542	0.827
C20orf20	turquoise	-0.802	-0.673
C20orf202	turquoise	0.440	0.770
C20orf7	turquoise	0.440	0.869
C21orf77	turquoise	-0.704	-0.554
C21orf88	turquoise	-0.652	-0.586
C2orf16	turquoise	0.901	0.818
C2orf42	turquoise	0.666	0.510
C2orf62	turquoise	-0.755	-0.801
C3orf43	turquoise	-0.840	-0.297
C3orf49	turquoise	0.736	0.722
C3P1	turquoise	-0.667	-0.493
C4orf33	turquoise	0.873	0.873
C4orf34	turquoise	0.563	0.500
C4orf48	turquoise	-0.431	-0.465
C5orf22	turquoise	0.897	0.983
C5orf24	turquoise	0.907	0.770
C5orf30	turquoise	0.630	0.812
C5orf44	turquoise	0.965	0.933
C5orf49	turquoise	-0.609	-0.497
C6orf108	turquoise	-0.893	-0.681
C6orf120	turquoise	0.878	0.921
C6orf130	turquoise	0.713	0.448
C6orf211	turquoise	0.804	0.877
C6orf226	turquoise	-0.568	-0.376
C6orf228	turquoise	0.956	0.975
C6orf89	turquoise	0.868	0.779
C6orf99	turquoise	-0.824	-0.818
C7orf13	turquoise	0.450	0.521
C7orf23	turquoise	-0.414	-0.382
C7orf44	turquoise	0.638	0.787
C7orf60	turquoise	0.688	0.855
C8orf38	turquoise	0.740	0.782
C8orf58	turquoise	-0.573	-0.706
C8orf73	turquoise	-0.774	-0.438
C9orf114	turquoise	-0.797	-0.655
C9orf125	turquoise	0.654	0.845
C9orf131	turquoise	-0.732	-0.631
C9orf41	turquoise	0.707	0.672
C9orf72	turquoise	0.892	0.722
C9orf80	turquoise	0.802	0.595
C9orf89	turquoise	-0.892	-0.756
CA3	turquoise	-0.742	-0.633
CA8	turquoise	0.391	0.365
CA9	turquoise	-0.508	-0.501
CAB39	turquoise	0.874	0.969
CACNA1C-IT3	turquoise	-0.441	-0.656

CACNA2D1	turquoise	0.838	0.935
CACNB4	turquoise	0.927	0.910
CADM2	turquoise	0.916	0.887
CALML4	turquoise	-0.282	-0.326
CALML6	turquoise	-0.574	-0.696
CALN1	turquoise	0.839	0.749
CAMK2D	turquoise	0.850	0.932
CAMSAP1	turquoise	0.672	0.921
CAMSAP2	turquoise	0.956	0.862
CAND1	turquoise	0.954	0.980
CAPN14	turquoise	-0.658	-0.364
CAPRIN1	turquoise	0.786	0.954
CAPS2	turquoise	0.875	0.730
CAPZA1	turquoise	0.726	0.491
CAPZA2	turquoise	0.911	0.786
CARS2	turquoise	-0.958	-0.578
CASD1	turquoise	0.813	0.982
CASK	turquoise	0.825	0.842
CATSPERG	turquoise	-0.619	-0.689
CAV3	turquoise	-0.393	-0.652
CBL	turquoise	0.840	0.703
CBR3	turquoise	-0.591	-0.628
CBR3-AS1	turquoise	-0.519	-0.866
CBR4	turquoise	0.750	0.571
CBWD2	turquoise	0.814	0.546
CBX5	turquoise	0.805	0.886
CBY3	turquoise	-0.694	-0.800
CC2D1A	turquoise	-0.699	-0.835
CCBE1	turquoise	0.658	0.464
CCDC101	turquoise	-0.808	-0.885
CCDC102A	turquoise	-0.636	-0.586
CCDC11	turquoise	-0.658	-0.807
CCDC12	turquoise	-0.908	-0.581
CCDC120	turquoise	-0.545	-0.658
CCDC132	turquoise	0.773	0.901
CCDC142	turquoise	-0.897	-0.925
CCDC149	turquoise	0.858	0.820
CCDC153	turquoise	-0.495	-0.486
CCDC154	turquoise	-0.662	-0.736
CCDC24	turquoise	-0.817	-0.715
CCDC37	turquoise	-0.687	-0.611
CCDC6	turquoise	0.954	0.950
CCDC60	turquoise	-0.684	-0.795
CCDC88B	turquoise	-0.733	-0.463
CCDC9	turquoise	-0.759	-0.847
CCDC90B	turquoise	0.897	0.584
CCDC94	turquoise	-0.879	-0.525

CCNG2	turquoise	0.445	0.837
CCNH	turquoise	0.614	0.896
CCNT2	turquoise	0.867	0.873
CCS	turquoise	-0.964	-0.559
CD151	turquoise	-0.698	-0.691
CD276	turquoise	-0.745	-0.689
CD40	turquoise	-0.699	-0.613
CD47	turquoise	0.935	0.985
CDADC1	turquoise	0.743	0.816
CDC27	turquoise	0.947	0.888
CDC42	turquoise	0.829	0.642
CDC42SE2	turquoise	0.931	0.933
CDC45	turquoise	-0.646	-0.823
CDCA8	turquoise	-0.867	-0.758
CDH10	turquoise	0.682	0.862
CDH16	turquoise	-0.734	-0.548
CDH3	turquoise	-0.837	-0.422
CDH4	turquoise	-0.494	-0.484
CDH6	turquoise	0.694	0.861
CDH7	turquoise	0.804	0.868
CDH9	turquoise	0.569	0.731
CDHR1	turquoise	0.500	0.396
CDK1	turquoise	0.677	0.430
CDK11A	turquoise	-0.501	-0.891
CDK17	turquoise	0.964	0.979
CDK2AP2	turquoise	-0.671	-0.812
CDK3	turquoise	-0.639	-0.642
CDK5RAP3	turquoise	-0.671	-0.282
CDKL2	turquoise	0.886	0.709
CDKL5	turquoise	0.938	0.764
CDKN1B	turquoise	0.872	0.816
CDS2	turquoise	0.671	0.921
CEACAM1	turquoise	-0.767	-0.859
CEACAM8	turquoise	-0.761	-0.747
CECR5-AS1	turquoise	-0.835	-0.420
CEL	turquoise	-0.697	-0.698
CELA2B	turquoise	-0.631	-0.822
CENPN	turquoise	0.937	0.803
CENPT	turquoise	-0.837	-0.702
CEP120	turquoise	0.769	0.832
CEP164	turquoise	-0.764	-0.623
CEP170	turquoise	0.932	0.973
CEP192	turquoise	0.808	0.700
CEP41	turquoise	0.963	0.747
CEP68	turquoise	0.768	0.806
CEP89	turquoise	-0.572	-0.932
CERKL	turquoise	0.263	0.452

CERS1	turquoise	-0.933	-0.893
CERS5	turquoise	-0.779	-0.850
CES4A	turquoise	-0.700	-0.439
CFD	turquoise	-0.547	-0.651
CFP	turquoise	-0.837	-0.870
CGGBP1	turquoise	0.964	0.947
CHAF1B	turquoise	0.511	0.847
CHCHD7	turquoise	0.487	0.861
CHFR	turquoise	-0.916	-0.762
CHIC1	turquoise	0.964	0.979
CHKB	turquoise	-0.709	-0.800
CHM	turquoise	0.965	0.973
CHML	turquoise	0.956	0.831
CHRDL2	turquoise	-0.618	-0.516
CHRM3	turquoise	0.787	0.941
CHRNA10	turquoise	-0.759	-0.752
CHRNB3	turquoise	0.751	0.566
CHRND	turquoise	-0.395	-0.731
CHRNG	turquoise	-0.730	-0.839
CHST12	turquoise	-0.725	-0.683
CHTF8	turquoise	0.826	0.660
CIB1	turquoise	-0.804	-0.851
CITED1	turquoise	-0.662	-0.797
CKAP4	turquoise	0.919	0.621
CKAP5	turquoise	0.529	0.889
CLASP1	turquoise	0.536	0.891
CLASP2	turquoise	0.879	0.965
CLCN1	turquoise	-0.535	-0.827
CLCN3	turquoise	0.921	0.865
CLCN5	turquoise	0.920	0.570
CLDN9	turquoise	-0.893	-0.632
CLK3	turquoise	-0.923	-0.680
CLNS1A	turquoise	-0.557	-0.677
CLOCK	turquoise	0.931	0.638
CLTC	turquoise	0.793	0.981
CMC1	turquoise	0.734	0.770
CMC2	turquoise	-0.633	-0.373
CMPK1	turquoise	0.695	0.860
CMTM2	turquoise	-0.574	-0.580
CMTM4	turquoise	0.821	0.925
CNEP1R1	turquoise	0.717	0.550
CNGA3	turquoise	0.830	0.386
CNIH	turquoise	0.789	0.645
CNNM2	turquoise	0.704	0.798
CNO	turquoise	-0.651	-0.665
CNOT7	turquoise	0.910	0.830
CNPY4	turquoise	-0.864	-0.733

CNR1	turquoise	0.648	0.918
CNST	turquoise	0.640	0.951
CNTN1	turquoise	0.871	0.949
CNTNAP5	turquoise	0.784	0.838
COCH	turquoise	0.539	0.293
COG5	turquoise	0.910	0.732
COG6	turquoise	0.908	0.936
COL12A1	turquoise	0.354	0.468
COL19A1	turquoise	0.680	0.582
COL25A1	turquoise	0.804	0.910
COL4A3BP	turquoise	0.836	0.894
COL6A1	turquoise	-0.718	-0.860
COMMD2	turquoise	0.826	0.819
COMMD4	turquoise	-0.619	-0.675
COPE	turquoise	-0.622	-0.610
COPS2	turquoise	0.903	0.952
COQ10B	turquoise	0.672	0.690
COQ9	turquoise	-0.841	-0.735
COX10	turquoise	0.463	0.934
COX4NB	turquoise	-0.693	-0.615
COX8C	turquoise	-0.348	-0.522
CPD	turquoise	0.905	0.870
CPEB3	turquoise	0.728	0.955
CPNE1	turquoise	-0.965	-0.719
CPSF3	turquoise	0.454	0.694
CPSF6	turquoise	0.976	0.890
CPT1B	turquoise	-0.830	-0.790
CRABP2	turquoise	-0.505	-0.380
CRAT	turquoise	-0.765	-0.779
CRBN	turquoise	0.786	0.795
CREBL2	turquoise	0.871	0.754
CREG2	turquoise	0.702	0.850
CRELD2	turquoise	-0.878	-0.708
CRKL	turquoise	0.746	0.827
CRLS1	turquoise	-0.426	-0.599
CROCC	turquoise	-0.800	-0.319
CRYBB2	turquoise	-0.848	-0.753
CRYBB3	turquoise	-0.455	-0.448
CRYGS	turquoise	-0.737	-0.664
CSDE1	turquoise	0.762	0.838
CSE1L	turquoise	0.851	0.981
CSMD3	turquoise	0.622	0.567
CSNK1E	turquoise	-0.845	-0.813
CSNK1G1	turquoise	0.542	0.578
CSNK1G3	turquoise	0.934	0.967
CSRNP2	turquoise	0.692	0.857
CSRNP3	turquoise	0.952	0.955

CSTF3	turquoise	0.749	0.822
CTA-282F2.3	turquoise	-0.769	-0.863
CTA-299D3.8	turquoise	-0.769	-0.748
CTAGE10P	turquoise	0.534	0.571
CTC-203F4.1	turquoise	-0.597	-0.519
CTC-231O11.1	turquoise	-0.609	-0.403
CTC-463N11.3	turquoise	0.889	0.490
CTC-558O2.1	turquoise	-0.522	-0.588
CTD-2012J19.2	turquoise	-0.215	-0.761
CTD-2201E18.3	turquoise	-0.541	-0.365
CTD-2210P24.4	turquoise	-0.546	-0.338
CTD-2258A20.2	turquoise	-0.762	-0.256
CTD-2269F5.1	turquoise	0.863	0.592
CTD-2547L16.1	turquoise	0.438	0.469
CTD-2552B11.4	turquoise	0.950	0.956
CTD-3064C13.1	turquoise	-0.614	-0.683
CTDNEP1	turquoise	-0.923	-0.706
CTRL	turquoise	-0.806	-0.399
CTSC	turquoise	0.553	0.590
CUL1	turquoise	0.557	0.853
CUL3	turquoise	0.915	0.947
CUL4B	turquoise	0.988	0.955
CUL5	turquoise	0.871	0.748
CXorf57	turquoise	0.842	0.792
CXorf69	turquoise	-0.345	-0.642
CXXC4	turquoise	0.788	0.622
CYB5R4	turquoise	0.781	0.753
CYB5RL	turquoise	0.634	0.434
CYLD	turquoise	0.936	0.901
CYP2A6	turquoise	-0.623	-0.833
CYP2A7	turquoise	-0.740	-0.700
CYP2F1	turquoise	-0.376	-0.630
CYSTM1	turquoise	-0.860	-0.934
DANCR	turquoise	-0.817	-0.835
DAO	turquoise	-0.856	-0.497
DAP	turquoise	-0.637	-0.911
DAXX	turquoise	-0.541	-0.578
DBF4B	turquoise	-0.531	-0.749
DBH	turquoise	0.260	0.531
DCAF17	turquoise	0.817	0.926
DCAKD	turquoise	-0.741	-0.487
DCC	turquoise	0.687	0.844
DCK	turquoise	0.606	0.811
DCLRE1A	turquoise	0.972	0.930
DCP1B	turquoise	0.273	0.717
DCP2	turquoise	0.856	0.909
DCST1	turquoise	-0.698	-0.309

DCTN4	turquoise	0.761	0.855
DCTN5	turquoise	0.904	0.924
DCUN1D1	turquoise	0.900	0.681
DCUN1D4	turquoise	0.807	0.833
DCX	turquoise	0.777	0.855
DCXR	turquoise	-0.881	-0.920
DDAH2	turquoise	-0.926	-0.926
DDHD1	turquoise	0.899	0.685
DDHD2	turquoise	0.873	0.966
DDIT3	turquoise	-0.516	-0.649
DDX27	turquoise	-0.941	-0.790
DDX3X	turquoise	0.789	0.551
DDX51	turquoise	-0.657	-0.472
DDX55	turquoise	-0.513	-0.674
DDX6	turquoise	0.936	0.902
DEDD	turquoise	-0.760	-0.411
DENND2A	turquoise	-0.267	-0.824
DENND5B	turquoise	0.874	0.719
DENND5B-AS1	turquoise	-0.708	-0.317
DERL1	turquoise	0.787	0.646
DGCR8	turquoise	-0.710	-0.700
DGKE	turquoise	0.718	0.731
DGKI	turquoise	0.899	0.881
DHRS13	turquoise	-0.420	-0.865
DHRS3	turquoise	-0.734	-0.852
DIEXF	turquoise	0.781	0.840
DLAT	turquoise	0.980	0.956
DLD	turquoise	0.928	0.791
DLEU2L	turquoise	0.668	0.627
DLG1	turquoise	0.795	0.926
DLG2	turquoise	0.770	0.901
DMD	turquoise	0.845	0.349
DMPK	turquoise	-0.874	-0.625
DMXL1	turquoise	0.943	0.820
DNAH3	turquoise	-0.264	-0.690
DNAJA1	turquoise	0.700	0.767
DNAJA4	turquoise	0.532	0.707
DNAJB1	turquoise	-0.262	-0.650
DNAJB14	turquoise	0.844	0.959
DNAJC10	turquoise	0.936	0.933
DNAJC13	turquoise	0.953	0.951
DNAJC16	turquoise	0.921	0.897
DNAJC17	turquoise	-0.599	-0.662
DNAJC18	turquoise	0.943	0.955
DNAJC27	turquoise	0.803	0.897
DNAJC27-AS1	turquoise	-0.826	-0.534
DNAJC4	turquoise	-0.878	-0.671

DNAL1	turquoise	0.954	0.812
DNASE1	turquoise	-0.796	-0.576
DNLZ	turquoise	-0.630	-0.601
DNM1L	turquoise	0.759	0.869
DNM3	turquoise	0.948	0.961
DNPEP	turquoise	-0.818	-0.786
DNTTIP1	turquoise	-0.717	-0.621
DOCK11	turquoise	0.795	0.749
DOCK3	turquoise	0.546	0.957
DOCK9	turquoise	0.562	0.893
DOM3Z	turquoise	-0.672	-0.881
DOPEY1	turquoise	0.777	0.904
DOPEY2	turquoise	0.521	0.805
DPH3	turquoise	0.844	0.396
DPP10	turquoise	0.905	0.931
DPP7	turquoise	-0.731	-0.703
DPP8	turquoise	0.921	0.875
DPY19L1	turquoise	0.829	0.883
DQX1	turquoise	-0.662	-0.374
DR1	turquoise	0.940	0.888
DRD4	turquoise	-0.833	-0.727
DROSHA	turquoise	0.380	0.920
DSCAM-AS1	turquoise	-0.554	-0.839
DTWD1	turquoise	0.733	0.768
DTX2	turquoise	-0.730	-0.446
DTYMK	turquoise	-0.634	-0.694
DUS1L	turquoise	-0.859	-0.712
DUS3L	turquoise	-0.716	-0.818
DUSP23	turquoise	-0.793	-0.372
DUSP3	turquoise	0.665	0.810
DUSP9	turquoise	-0.547	-0.245
DYM	turquoise	0.963	0.981
DYNC1LI1	turquoise	0.932	0.893
DYNLRB2	turquoise	-0.543	-0.679
DYRK1A	turquoise	0.811	0.967
EAF1	turquoise	0.921	0.868
EBF3	turquoise	-0.590	-0.828
EBLN2	turquoise	-0.534	-0.790
ECE2	turquoise	-0.351	-0.547
ECHDC2	turquoise	-0.780	-0.791
ECI1	turquoise	-0.726	-0.876
ECT2	turquoise	0.957	0.881
EFCAB7	turquoise	0.662	0.725
EFEMP2	turquoise	-0.767	-0.897
EFHA2	turquoise	0.676	0.820
EFHC1	turquoise	0.525	0.835
EFNB2	turquoise	0.413	0.318

EFR3A	turquoise	0.929	0.833
EFTUD1	turquoise	0.808	0.810
EGLN1	turquoise	0.837	0.667
EID2	turquoise	0.515	0.650
EIF1AD	turquoise	-0.789	-0.616
EIF1B	turquoise	0.720	0.694
EIF2A	turquoise	0.736	0.622
EIF2AK2	turquoise	0.921	0.433
EIF2B4	turquoise	-0.819	-0.935
EIF2S1	turquoise	0.796	0.828
EIF3F	turquoise	-0.643	-0.780
EIF4B	turquoise	0.556	0.787
EIF4E3	turquoise	0.917	0.955
EIF4G2	turquoise	0.884	0.872
EIF5A2	turquoise	0.788	0.872
ELAVL1	turquoise	0.855	0.894
ELAVL2	turquoise	0.835	0.881
ELMOD2	turquoise	0.746	0.734
ELOF1	turquoise	-0.625	-0.747
ELOVL4	turquoise	0.569	0.871
ELOVL6	turquoise	0.761	0.919
ELP2	turquoise	0.617	0.800
EMB	turquoise	0.769	0.899
ENO1	turquoise	-0.775	-0.674
ENPP5	turquoise	0.759	0.855
ENTPD4	turquoise	0.898	0.970
EPB42	turquoise	-0.612	-0.579
EPC2	turquoise	0.698	0.812
EPG5	turquoise	0.693	0.893
EPHA7	turquoise	0.774	0.933
EPM2AIP1	turquoise	0.575	0.433
EPS15	turquoise	0.798	0.976
EPT1	turquoise	0.995	0.980
ERAS	turquoise	-0.521	-0.784
ERCC6	turquoise	0.428	0.897
ERGIC3	turquoise	-0.535	-0.421
ERI2	turquoise	0.808	0.783
ERLEC1	turquoise	0.879	0.760
ERN2	turquoise	-0.719	-0.694
ERVFRD-1	turquoise	-0.725	-0.551
ESPN	turquoise	-0.446	-0.698
ESR1	turquoise	0.454	0.609
ESRP2	turquoise	-0.962	-0.856
ESRRG	turquoise	0.737	0.920
ETNK1	turquoise	0.878	0.904
ETV1	turquoise	0.852	0.364
EXOC1	turquoise	0.853	0.729

EXOC2	turquoise	0.675	0.918
EXOC4	turquoise	0.598	0.905
EXOC5	turquoise	0.945	0.510
EXOC8	turquoise	0.809	0.877
EXOSC1	turquoise	-0.894	-0.816
EXOSC7	turquoise	-0.798	-0.602
EXT1	turquoise	0.411	0.851
EXTL2	turquoise	0.785	0.899
FAF1	turquoise	0.425	0.928
FAHD2A	turquoise	-0.888	-0.821
FAM100B	turquoise	-0.901	-0.797
FAM105A	turquoise	0.307	0.700
FAM109A	turquoise	-0.708	-0.901
FAM117B	turquoise	0.886	0.864
FAM122B	turquoise	0.606	0.729
FAM126B	turquoise	0.921	0.908
FAM129B	turquoise	-0.576	-0.757
FAM132A	turquoise	-0.364	-0.557
FAM135B	turquoise	0.845	0.929
FAM13A	turquoise	0.661	0.534
FAM13B	turquoise	0.907	0.922
FAM151A	turquoise	-0.820	-0.668
FAM160B1	turquoise	0.891	0.927
FAM168A	turquoise	0.587	0.783
FAM168B	turquoise	0.736	0.962
FAM169A	turquoise	0.943	0.969
FAM173A	turquoise	-0.516	-0.541
FAM175B	turquoise	0.595	0.763
FAM179B	turquoise	0.981	0.915
FAM188A	turquoise	0.893	0.799
FAM188B	turquoise	-0.736	-0.560
FAM190B	turquoise	0.928	0.704
FAM193A	turquoise	-0.771	-0.877
FAM193B	turquoise	-0.567	-0.783
FAM195A	turquoise	-0.700	-0.813
FAM199X	turquoise	0.932	0.873
FAM200A	turquoise	0.807	0.397
FAM20B	turquoise	0.714	0.930
FAM210A	turquoise	0.687	0.611
FAM211B	turquoise	-0.691	-0.663
FAM217B	turquoise	0.873	0.839
FAM21C	turquoise	0.736	0.527
FAM220A	turquoise	0.502	0.824
FAM3C	turquoise	0.889	0.850
FAM49A	turquoise	0.925	0.910
FAM49B	turquoise	0.865	0.929
FAM53C	turquoise	0.422	0.806

FAM54B	turquoise	-0.828	-0.730
FAM57A	turquoise	-0.737	-0.782
FAM69A	turquoise	0.773	0.939
FAM71D	turquoise	-0.544	-0.918
FAM71F2	turquoise	-0.831	-0.836
FAM73A	turquoise	0.951	0.965
FAM8A1	turquoise	0.812	0.957
FAM91A1	turquoise	0.958	0.787
FAM98A	turquoise	0.689	0.861
FANCF	turquoise	0.602	0.757
FANK1	turquoise	-0.742	-0.761
FAR2	turquoise	0.670	0.953
FASTKD2	turquoise	0.761	0.928
FASTKD5	turquoise	0.441	0.447
FAT3	turquoise	0.724	0.792
FAXC	turquoise	0.810	0.897
FBN2	turquoise	-0.551	-0.393
FBXL12	turquoise	-0.895	-0.866
FBXL17	turquoise	0.709	0.860
FBXL20	turquoise	0.510	0.734
FBXL4	turquoise	0.882	0.898
FBXL5	turquoise	0.889	0.817
FBXL6	turquoise	-0.629	-0.382
FBXO11	turquoise	0.913	0.923
FBXO2	turquoise	-0.754	-0.734
FBXO28	turquoise	0.930	0.923
FBXO3	turquoise	0.907	0.918
FBXO45	turquoise	0.962	0.902
FBXO6	turquoise	-0.576	-0.761
FBXW10	turquoise	-0.692	-0.782
FBXW11	turquoise	0.898	0.950
FBXW12	turquoise	-0.842	-0.453
FBXW4P1	turquoise	-0.788	-0.615
FDXR	turquoise	-0.617	-0.577
FEM1B	turquoise	0.963	0.978
FGF5	turquoise	0.491	0.840
FGFR1OP	turquoise	0.753	0.791
FGFR1OP2	turquoise	0.668	0.628
FGGY	turquoise	-0.742	-0.520
FITM2	turquoise	0.752	0.937
FLRT3	turquoise	0.836	0.897
FMN1	turquoise	0.793	0.855
FMO3	turquoise	-0.250	-0.605
FMR1	turquoise	0.721	0.708
FNIP2	turquoise	0.811	0.591
FPGS	turquoise	-0.756	-0.834
FRMD4A	turquoise	-0.678	-0.809

FRMPD4	turquoise	0.693	0.948
FRRS1L	turquoise	0.862	0.937
FRY	turquoise	0.723	0.905
FSD1L	turquoise	0.830	0.893
FSTL3	turquoise	-0.912	-0.887
FTH1P3	turquoise	-0.522	-0.666
FTL	turquoise	-0.670	-0.928
FTX	turquoise	-0.354	-0.923
FUT2	turquoise	-0.704	-0.850
FUT9	turquoise	0.858	0.278
FXC1	turquoise	0.753	0.738
FXYD1	turquoise	-0.720	-0.817
FXYD5	turquoise	-0.552	-0.491
FYTTD1	turquoise	0.952	0.748
FZD9	turquoise	-0.631	-0.724
G0S2	turquoise	-0.578	-0.647
G2E3	turquoise	0.863	0.661
GABRA1	turquoise	0.884	0.950
GABRA4	turquoise	0.859	0.939
GABRB2	turquoise	0.926	0.851
GABRG3	turquoise	0.647	0.811
GADD45A	turquoise	-0.467	-0.647
GALNT13	turquoise	0.812	0.970
GALT	turquoise	-0.842	-0.785
GARNL3	turquoise	0.442	0.736
GAS7	turquoise	0.813	0.888
GATC	turquoise	0.471	0.727
GBE1	turquoise	0.503	0.647
GCFC1-AS1	turquoise	0.604	0.888
GCNT2	turquoise	0.600	0.433
GDAP1	turquoise	0.770	0.924
GDF7	turquoise	0.837	0.737
GDI2	turquoise	0.971	0.956
GDPD3	turquoise	-0.546	-0.531
GFM1	turquoise	0.719	0.812
GFPT1	turquoise	0.939	0.954
GGH	turquoise	0.797	0.642
GGNBP2	turquoise	-0.531	-0.510
GHRLOS	turquoise	-0.723	-0.554
GIN1	turquoise	0.664	0.554
GLCE	turquoise	0.800	0.935
GLI4	turquoise	-0.941	-0.409
GLIPR1	turquoise	0.704	0.835
GLIS2	turquoise	-0.722	-0.762
GLMN	turquoise	0.628	0.694
GLO1	turquoise	0.722	0.808
GLRA2	turquoise	0.788	0.828

GLRX2	turquoise	0.472	0.451
GLTSCR1	turquoise	-0.667	-0.825
GLTSCR2	turquoise	-0.171	-0.456
GMEB1	turquoise	-0.650	-0.734
GMFB	turquoise	0.968	0.930
GMPS	turquoise	0.981	0.890
GNA14	turquoise	-0.510	-0.722
GNAI1	turquoise	0.816	0.898
GNB2	turquoise	-0.756	-0.652
GNL1	turquoise	0.699	0.838
GNL3L	turquoise	-0.944	-0.789
GNPAT	turquoise	0.570	0.439
GNPDA2	turquoise	0.641	0.831
GNPNAT1	turquoise	0.812	0.606
GNRHR	turquoise	0.573	0.785
GNS	turquoise	0.661	0.669
GOLGA5	turquoise	0.744	0.894
GOLGA6L5	turquoise	-0.587	-0.651
GOLPH3L	turquoise	0.886	0.748
GOLT1B	turquoise	0.774	0.931
GOPC	turquoise	0.319	0.640
GPAT2	turquoise	-0.445	-0.582
GPBP1	turquoise	0.772	0.547
GPCPD1	turquoise	0.573	0.772
GPD1L	turquoise	0.860	0.922
GPR1	turquoise	-0.478	-0.530
GPR107	turquoise	0.497	0.523
GPR116	turquoise	0.477	0.407
GPR12	turquoise	0.757	0.937
GPR126	turquoise	0.699	0.507
GPR137C	turquoise	0.811	0.903
GPR148	turquoise	-0.635	-0.522
GPR158	turquoise	0.933	0.966
GPR179	turquoise	0.613	0.844
GPR180	turquoise	0.840	0.826
GPR35	turquoise	-0.773	-0.491
GPR52	turquoise	0.630	0.741
GPRIN2	turquoise	0.503	0.710
GPX2	turquoise	-0.473	-0.703
GRB10	turquoise	0.590	0.817
GRB2	turquoise	0.746	0.877
GRID2IP	turquoise	-0.644	-0.642
GRIN2A	turquoise	0.847	0.826
GRM6	turquoise	-0.789	-0.866
GRPEL2	turquoise	0.741	0.447
GRSF1	turquoise	0.803	0.943
GSK3B	turquoise	0.989	0.979

GSTA4	turquoise	0.724	0.741
GSTP1	turquoise	-0.699	-0.708
GTDC1	turquoise	0.960	0.952
GTF2A1	turquoise	0.834	0.823
GTF2IRD1	turquoise	-0.654	-0.914
GTF3C3	turquoise	0.847	0.777
GTF3C4	turquoise	0.923	0.830
GTPBP10	turquoise	0.791	0.854
GUCA1B	turquoise	-0.673	-0.711
GUCY1A2	turquoise	0.579	0.689
GUCY1A3	turquoise	0.752	0.911
GUF1	turquoise	0.949	0.918
GULP1	turquoise	0.760	0.809
GYS1	turquoise	-0.967	-0.884
H19	turquoise	-0.547	-0.229
H2AFV	turquoise	0.884	0.665
H2AFX	turquoise	-0.499	-0.819
HAAO	turquoise	-0.953	-0.827
HACE1	turquoise	0.867	0.819
HAGHL	turquoise	-0.720	-0.343
HAPLN3	turquoise	-0.663	-0.749
HAUS7	turquoise	-0.747	-0.353
HBS1L	turquoise	0.780	0.868
HCG18	turquoise	0.699	0.802
HCG25	turquoise	-0.678	-0.712
HCG27	turquoise	-0.855	-0.527
HDAC10	turquoise	-0.648	-0.857
HDAC3	turquoise	-0.543	-0.658
HDAC9	turquoise	0.718	0.897
HDHD2	turquoise	0.673	0.735
HDHD3	turquoise	-0.975	-0.829
HEATR1	turquoise	0.806	0.578
HEATR2	turquoise	-0.850	-0.725
HEATR5B	turquoise	0.777	0.980
HECA	turquoise	0.834	0.858
HECTD1	turquoise	0.828	0.957
HECTD2	turquoise	0.711	0.465
HECW1	turquoise	0.567	0.903
HECW2	turquoise	0.697	0.934
HERC3	turquoise	0.864	0.910
HEYL	turquoise	-0.682	-0.478
HHIPL1	turquoise	-0.529	-0.409
HIAT1	turquoise	0.703	0.794
HIGD1B	turquoise	-0.494	-0.754
HINFP	turquoise	-0.946	-0.386
HINT3	turquoise	0.883	0.829
HIRA	turquoise	-0.841	-0.808

HIRIP3	turquoise	-0.832	-0.557
HIVEP1	turquoise	0.437	0.835
HLTF	turquoise	0.812	0.884
HMG20A	turquoise	0.758	0.971
HMGB2	turquoise	-0.680	-0.661
HMGCS1	turquoise	0.810	0.854
HMGN4	turquoise	0.421	0.784
HNRNPA1L2	turquoise	-0.778	-0.309
HNRNPA3	turquoise	0.902	0.814
HNRNPK	turquoise	0.736	0.785
HNRNPKP3	turquoise	-0.398	-0.615
HNRNPM	turquoise	-0.597	-0.858
HNRPLL	turquoise	0.820	0.905
HPS3	turquoise	0.814	0.892
HRC	turquoise	-0.453	-0.409
HSD11B2	turquoise	-0.675	-0.506
HSD3B7	turquoise	-0.790	-0.878
HSF2	turquoise	0.627	0.755
HSF4	turquoise	-0.922	-0.613
HSH2D	turquoise	-0.566	-0.828
HSPA12A	turquoise	0.766	0.962
HSPA13	turquoise	0.982	0.804
HSPA14	turquoise	0.819	0.859
HSPA1A	turquoise	-0.582	-0.535
HSPA4	turquoise	0.896	0.864
HSPB6	turquoise	-0.624	-0.743
HYAL1	turquoise	-0.647	-0.951
HYDIN	turquoise	-0.693	-0.682
IARS2	turquoise	0.893	0.894
IBA57	turquoise	-0.482	-0.869
IBTK	turquoise	0.911	0.433
IDH2	turquoise	-0.774	-0.656
IDH3A	turquoise	0.885	0.819
IDI2	turquoise	-0.506	-0.727
IER2	turquoise	-0.474	-0.662
IFI27L2	turquoise	-0.615	-0.422
IFI35	turquoise	-0.793	-0.881
IFIT5	turquoise	0.799	0.631
IFITM2	turquoise	-0.652	-0.679
IFITM3	turquoise	-0.833	-0.741
IFRD2	turquoise	-0.694	-0.749
IFT43	turquoise	-0.832	-0.877
IFT80	turquoise	0.846	0.839
IGDCC3	turquoise	-0.081	-0.805
IGFALS	turquoise	-0.776	-0.760
IGFBP5	turquoise	0.094	0.454
IKBKAP	turquoise	0.723	0.804

IL10RB	turquoise	-0.670	-0.536
IL15RA	turquoise	-0.314	-0.677
IL29	turquoise	-0.565	-0.497
ILDR2	turquoise	0.686	0.857
ILK	turquoise	-0.309	-0.545
ILKAP	turquoise	-0.805	-0.624
IMPAD1	turquoise	0.906	0.917
INO80	turquoise	-0.337	-0.740
INO80E	turquoise	-0.413	-0.435
INPP5F	turquoise	0.813	0.913
INSIG2	turquoise	0.662	0.936
INSM2	turquoise	0.706	0.752
INTS7	turquoise	0.777	0.590
INTS9	turquoise	-0.851	-0.611
IPCEF1	turquoise	0.895	0.882
IPO11	turquoise	0.922	0.862
IPO5	turquoise	0.675	0.935
IPO7	turquoise	0.954	0.804
IQCJ-SCHIP1	turquoise	0.454	0.897
IRS1	turquoise	0.610	0.897
ISCA1	turquoise	0.840	0.881
ISYNA1	turquoise	-0.538	-0.410
ITCH	turquoise	0.815	0.759
ITFG1	turquoise	0.911	0.957
ITFG2	turquoise	-0.805	-0.621
ITPK1-AS1	turquoise	-0.615	-0.869
ITPR1	turquoise	0.602	0.913
IZUMO1	turquoise	-0.548	-0.708
JAK1	turquoise	0.777	0.348
JAZF1	turquoise	0.897	0.802
JKAMP	turquoise	0.879	0.875
KAT7	turquoise	0.652	0.928
KATNAL1	turquoise	0.916	0.959
KBTBD11	turquoise	0.866	0.726
KBTBD3	turquoise	0.917	0.935
KBTBD6	turquoise	0.695	0.782
KBTBD7	turquoise	0.310	0.683
KBTBD8	turquoise	0.763	0.858
KCNA2	turquoise	0.834	0.913
KCNAB1	turquoise	0.763	0.894
KCNB1	turquoise	0.699	0.872
KCNC2	turquoise	0.865	0.892
KCND2	turquoise	0.752	0.935
KCNJ14	turquoise	-0.887	-0.441
KCNJ3	turquoise	0.729	0.922
KCNK6	turquoise	-0.543	-0.673
KCNK7	turquoise	-0.841	-0.398

KCNMA1	turquoise	0.703	0.828
KCNMB2	turquoise	0.433	0.497
KCNQ3	turquoise	0.876	0.812
KCNRG	turquoise	-0.760	-0.637
KCNT2	turquoise	0.903	0.948
KCTD10	turquoise	0.717	0.831
KCTD15	turquoise	-0.528	-0.652
KCTD16	turquoise	0.790	0.541
KCTD9	turquoise	0.706	0.507
KDELR1	turquoise	-0.658	-0.302
KDM5A	turquoise	-0.679	-0.903
KDM5B-AS1	turquoise	-0.692	-0.624
KIAA0232	turquoise	0.957	0.939
KIAA0240	turquoise	0.463	0.951
KIAA0317	turquoise	0.735	0.931
KIAA0368	turquoise	0.954	0.934
KIAA0430	turquoise	0.859	0.851
KIAA0528	turquoise	0.759	0.902
KIAA0895	turquoise	0.898	0.924
KIAA0930	turquoise	-0.449	-0.331
KIAA0947	turquoise	0.960	0.840
KIAA1107	turquoise	0.814	0.814
KIAA1109	turquoise	0.948	0.849
KIAA1143	turquoise	0.935	0.618
KIAA1211	turquoise	0.780	0.750
KIAA1217	turquoise	0.628	0.900
KIAA1244	turquoise	0.937	0.827
KIAA1279	turquoise	0.605	0.830
KIAA1456	turquoise	0.751	0.678
KIAA1462	turquoise	0.740	0.706
KIAA1467	turquoise	0.533	0.920
KIAA1468	turquoise	0.894	0.973
KIAA1609	turquoise	-0.756	-0.342
KIAA1671	turquoise	0.819	0.817
KIAA1704	turquoise	0.902	0.787
KIAA1715	turquoise	0.901	0.908
KIAA1841	turquoise	0.698	0.724
KIAA2022	turquoise	0.963	0.926
KIDINS220	turquoise	0.917	0.883
KIF11	turquoise	0.619	0.528
KIF16B	turquoise	-0.625	-0.824
KIF1B	turquoise	0.772	0.892
KIF2A	turquoise	0.925	0.832
KIRREL3-AS2	turquoise	-0.660	-0.872
KISS1R	turquoise	-0.623	-0.495
KIT	turquoise	0.686	0.464
KITLG	turquoise	0.853	0.905

KL	turquoise	0.624	0.834
KLF12	turquoise	0.933	0.940
KLF6	turquoise	-0.636	-0.750
KLF8	turquoise	0.898	0.943
KLF9	turquoise	0.750	0.763
KLHDC10	turquoise	0.894	0.935
KLHDC5	turquoise	0.840	0.913
KLHL13	turquoise	0.660	0.727
KLHL28	turquoise	0.771	0.764
KLHL7	turquoise	0.644	0.833
KLHL8	turquoise	0.875	0.553
KLHL9	turquoise	0.832	0.925
KLK14	turquoise	-0.874	-0.772
KPNA1	turquoise	0.933	0.944
KPNA3	turquoise	0.862	0.546
KPNA4	turquoise	0.967	0.734
KPNA6	turquoise	0.922	0.725
KRAS	turquoise	0.935	0.913
KRI1	turquoise	-0.577	-0.849
KRIT1	turquoise	0.810	0.447
KRR1	turquoise	0.850	0.763
KRTAP5-8	turquoise	-0.663	-0.529
KRTAP5-9	turquoise	-0.724	-0.469
LA16c-431H6.6	turquoise	-0.880	-0.862
LACE1	turquoise	0.766	0.711
LAMTOR3	turquoise	0.862	0.972
LARP4B	turquoise	0.782	0.744
LAS1L	turquoise	-0.805	-0.383
LAT	turquoise	-0.900	-0.748
LBH	turquoise	0.742	0.462
LCLAT1	turquoise	0.904	0.857
LCT	turquoise	-0.443	-0.645
LDHD	turquoise	-0.715	-0.759
LEMD3	turquoise	0.926	0.892
LEPR	turquoise	0.791	0.808
LEPRE1	turquoise	-0.910	-0.805
LEPROTL1	turquoise	0.769	0.905
LGALSL	turquoise	0.801	0.966
LGI4	turquoise	-0.769	-0.808
LHX2	turquoise	-0.581	-0.822
LIG4	turquoise	0.908	0.942
LIN37	turquoise	-0.822	-0.714
LIN7A	turquoise	0.903	0.907
LIN9	turquoise	0.803	0.336
LINC00085	turquoise	-0.815	-0.753
LINC00173	turquoise	-0.793	-0.603
LINC00222	turquoise	-0.617	-0.699

LINC00311	turquoise	-0.705	-0.859
LINC00571	turquoise	-0.373	-0.757
LINC00574	turquoise	-0.882	-0.534
LL0XNC01-157D4	turquoise	0.673	0.803
LL22NC03-80A10	turquoise	0.646	0.850
LMBR1	turquoise	0.935	0.938
LMBRD1	turquoise	0.847	0.844
LMBRD2	turquoise	0.978	0.982
LMO3	turquoise	0.750	0.853
LNP1	turquoise	0.549	0.825
LNPEP	turquoise	0.806	0.860
LOX	turquoise	0.260	0.523
LPCAT3	turquoise	-0.592	-0.650
LPGAT1	turquoise	0.965	0.974
LPHN2	turquoise	0.537	0.931
LRBA	turquoise	0.906	0.631
LRP12	turquoise	0.842	0.755
LRPPRC	turquoise	0.906	0.965
LRRC23	turquoise	-0.812	-0.763
LRRC29	turquoise	-0.691	-0.815
LRRC34	turquoise	-0.452	-0.483
LRRC40	turquoise	0.795	0.744
LRRC46	turquoise	-0.284	-0.386
LRRC57	turquoise	0.311	0.699
LRRC66	turquoise	-0.713	-0.509
LRRC71	turquoise	-0.459	-0.827
LRRC8B	turquoise	0.904	0.929
LRRK2	turquoise	0.890	0.926
LRRN1	turquoise	0.392	0.574
LRRN3	turquoise	0.862	0.531
LRRTM3	turquoise	0.897	0.953
LRTOMT	turquoise	-0.778	-0.853
LSM11	turquoise	0.725	0.939
LSM12	turquoise	0.741	0.268
LTA4H	turquoise	0.463	0.442
LTN1	turquoise	0.905	0.898
LUZP2	turquoise	0.936	0.509
LY6G5C	turquoise	-0.520	-0.642
LYG1	turquoise	-0.527	-0.847
LYPD6	turquoise	0.317	0.585
LYPD6B	turquoise	-0.654	-0.618
LYPLA1	turquoise	0.939	0.703
LZTFL1	turquoise	0.893	0.872
MAB21L3	turquoise	-0.368	-0.201
MAD2L1	turquoise	0.703	0.850
MAEL	turquoise	0.387	0.568
MAF1	turquoise	-0.756	-0.792

MAGEH1	turquoise	0.713	0.848
MAGI1	turquoise	0.711	0.908
MAK	turquoise	-0.506	-0.935
MAMDC2	turquoise	0.398	0.555
MAMSTR	turquoise	-0.443	-0.592
MANSC1	turquoise	0.544	0.824
MAP2K3	turquoise	-0.685	-0.751
MAP2K7	turquoise	-0.513	-0.860
MAP3K7	turquoise	0.878	0.751
MAP3K9	turquoise	0.662	0.843
MAP4K1	turquoise	-0.715	-0.521
MAP4K3	turquoise	0.950	0.940
MAPK1	turquoise	0.889	0.962
MAPK10	turquoise	0.642	0.920
MAPK14	turquoise	0.762	0.877
MAPK6	turquoise	0.895	0.935
MAPK8	turquoise	0.847	0.960
MAPRE2	turquoise	0.625	0.639
MARCH1-2	turquoise	0.805	0.844
MARCH2-2	turquoise	-0.702	-0.581
MARK2P9	turquoise	-0.684	-0.532
MASTL	turquoise	0.705	0.707
MB21D2	turquoise	0.412	0.850
MBD5	turquoise	0.881	0.969
MBL1P	turquoise	-0.427	-0.711
MBNL1	turquoise	0.900	0.799
MBNL2	turquoise	0.805	0.924
MBTPS2	turquoise	0.806	0.890
MCART1	turquoise	0.801	0.611
MCF2	turquoise	0.830	0.827
MCFD2	turquoise	0.818	0.752
MCTP1	turquoise	0.758	0.792
MCTP2	turquoise	0.595	0.492
MDH1B	turquoise	0.355	0.564
MDK	turquoise	-0.394	-0.976
MECP2	turquoise	0.748	0.877
MED11	turquoise	-0.799	-0.566
MED12L	turquoise	0.828	0.697
MED22	turquoise	-0.765	-0.542
MED28	turquoise	0.763	0.624
MED7	turquoise	0.741	0.839
MEF2A	turquoise	0.722	0.975
MEF2C	turquoise	0.687	0.827
MEMO1P1	turquoise	0.534	0.874
MEOX1	turquoise	-0.690	-0.875
MET	turquoise	0.589	0.717
METRN	turquoise	-0.830	-0.669

METRNL	turquoise	-0.707	-0.742
METTL10	turquoise	0.576	0.579
METTL21D	turquoise	0.534	0.873
METTL23	turquoise	-0.424	-0.602
METTL4	turquoise	0.866	0.713
MFF	turquoise	0.704	0.764
MFGE8	turquoise	-0.685	-0.748
MFSD2B	turquoise	-0.853	-0.570
MFSD9	turquoise	0.692	0.866
MGAT4A	turquoise	0.948	0.895
MGAT5	turquoise	0.835	0.873
MGEA5	turquoise	0.858	0.726
MIA	turquoise	-0.514	-0.367
MIA3	turquoise	0.868	0.846
MIB1	turquoise	0.559	0.419
MICAL3	turquoise	-0.550	-0.770
MIIP	turquoise	-0.891	-0.702
MINA	turquoise	0.389	0.820
MINPP1	turquoise	0.724	0.290
MIOS	turquoise	0.799	0.425
MIR29B2	turquoise	-0.815	-0.882
MIR628	turquoise	0.352	0.349
MIR940	turquoise	-0.831	-0.539
MIS18A	turquoise	-0.734	-0.775
MKNK1	turquoise	-0.870	-0.824
MKNK2	turquoise	-0.555	-0.691
MKRN7P	turquoise	-0.583	-0.564
MLXIP	turquoise	-0.884	-0.594
MMADHC	turquoise	0.413	0.669
MMP16	turquoise	0.894	0.827
MMP25	turquoise	-0.683	-0.949
MOB1B	turquoise	0.743	0.743
MOB4	turquoise	0.951	0.973
MON2	turquoise	0.863	0.681
MORF4L1	turquoise	0.660	0.765
MOSPD1	turquoise	0.697	0.768
MPDU1	turquoise	-0.612	-0.685
MPDZ	turquoise	0.585	0.526
MPP5	turquoise	0.852	0.672
MPP7	turquoise	0.688	0.910
MRPL15	turquoise	0.328	0.819
MRPL33	turquoise	0.548	0.728
MRPL35	turquoise	0.763	0.907
MRPL42	turquoise	0.802	0.902
MRPL44	turquoise	0.596	0.855
MRPL45P2	turquoise	-0.470	-0.842
MRPL50	turquoise	0.556	0.603

MRPS16	turquoise	0.862	0.847
MRPS18B	turquoise	-0.493	-0.782
MRPS22	turquoise	0.827	0.891
MRPS26	turquoise	-0.877	-0.665
MRPS27	turquoise	0.841	0.923
MRPS30	turquoise	0.832	0.904
MRPS35	turquoise	0.817	0.740
MRPS5	turquoise	-0.615	-0.825
MRPS9	turquoise	0.773	0.825
MRS2	turquoise	0.811	0.862
MRVI1-AS1	turquoise	-0.775	-0.608
MSANTD3	turquoise	0.633	0.762
MSH2	turquoise	0.673	0.915
MSL1	turquoise	0.901	0.890
MSRB2	turquoise	-0.882	-0.841
MT3	turquoise	-0.683	-0.764
MTMR12	turquoise	0.743	0.916
MTMR2	turquoise	0.863	0.964
MTMR6	turquoise	0.949	0.978
MTMR7	turquoise	0.849	0.980
MTMR9	turquoise	0.949	0.804
MTPN	turquoise	0.898	0.956
MTSS1L	turquoise	-0.660	-0.706
MUC12	turquoise	-0.768	-0.658
MUC6	turquoise	-0.843	-0.785
MXD4	turquoise	-0.904	-0.824
MYCBP2	turquoise	0.707	0.792
MYEF2	turquoise	0.621	0.475
MYO16-AS1	turquoise	-0.420	-0.566
MYO5A	turquoise	0.760	0.906
MYO5B	turquoise	0.765	0.853
MYOZ1	turquoise	-0.467	-0.643
MYOZ3	turquoise	0.443	0.676
MYSM1	turquoise	0.848	0.922
MZT1	turquoise	0.618	0.748
MZT2B	turquoise	-0.752	-0.211
N6AMT1	turquoise	0.709	0.782
NAA10	turquoise	-0.807	-0.873
NAA25	turquoise	0.860	0.688
NAA30	turquoise	0.926	0.962
NAF1	turquoise	0.912	0.872
NALCN	turquoise	0.811	0.975
NANP	turquoise	0.572	0.516
NAPEPLD	turquoise	0.932	0.920
NAPG	turquoise	0.870	0.966
NARS2	turquoise	0.602	0.785
NAV2-AS4	turquoise	-0.813	-0.723

NAV2-AS5	turquoise	-0.521	-0.467
NBEA	turquoise	0.810	0.954
NBN	turquoise	0.869	0.817
NBPF8	turquoise	-0.753	-0.736
NCAM2	turquoise	0.882	0.945
NCKAP1	turquoise	0.765	0.972
NCL	turquoise	-0.264	-0.463
NCOA2	turquoise	0.806	0.903
NCOA4	turquoise	0.885	0.819
NCOA7	turquoise	0.853	0.906
NDFIP1	turquoise	0.861	0.926
NDFIP2	turquoise	0.963	0.970
NDNF	turquoise	0.494	0.366
NDUFA9	turquoise	0.517	0.688
NDUFAF3	turquoise	-0.826	-0.725
NDUFAF4	turquoise	0.628	0.809
NDUFB5	turquoise	0.296	0.755
NDUFS1	turquoise	0.853	0.870
NEGR1	turquoise	0.788	0.794
NETO1	turquoise	0.814	0.924
NEU3	turquoise	0.661	0.895
NF1	turquoise	0.890	0.903
NFKBIB	turquoise	-0.641	-0.871
NFKBID	turquoise	-0.729	-0.613
NFKBIL1	turquoise	-0.530	-0.770
NGLY1	turquoise	0.751	0.635
NINJ1	turquoise	-0.532	-0.624
NIPA1	turquoise	0.791	0.964
NIPA2	turquoise	0.737	0.960
NIPSNAP3A	turquoise	0.483	0.381
NKAPL	turquoise	-0.515	-0.731
NKIRAS2	turquoise	-0.687	-0.698
NKRF	turquoise	0.755	0.866
NLGN1	turquoise	0.811	0.723
NLGN4X	turquoise	0.719	0.808
NLN	turquoise	0.754	0.657
NLRX1	turquoise	-0.881	-0.631
NME3	turquoise	-0.720	-0.718
NME4	turquoise	-0.888	-0.838
NME6	turquoise	-0.648	-0.805
NMNAT1	turquoise	-0.340	-0.917
NMU	turquoise	0.487	0.556
NOL11	turquoise	0.661	0.678
NOL12	turquoise	-0.818	-0.840
NOL3	turquoise	-0.587	-0.660
NOL9	turquoise	-0.629	-0.422
NOLC1	turquoise	0.540	0.744

NOM1	turquoise	-0.656	-0.946
NOP2	turquoise	-0.873	-0.768
NOXA1	turquoise	-0.474	-0.473
NPFF	turquoise	-0.664	-0.665
NPR3	turquoise	0.708	0.830
NR1H3	turquoise	-0.825	-0.853
NR1I3	turquoise	-0.716	-0.415
NR2C2	turquoise	0.744	0.707
NR2F1	turquoise	-0.633	-0.809
NR3C1	turquoise	0.891	0.675
NR3C2	turquoise	0.686	0.923
NR4A3	turquoise	0.483	0.270
NRAP	turquoise	-0.554	-0.722
NRAS	turquoise	0.832	0.567
NRCAM	turquoise	0.812	0.890
NRG2	turquoise	-0.619	-0.876
NRG3	turquoise	0.811	0.920
NRIP1	turquoise	0.968	0.555
NRIP3	turquoise	0.664	0.756
NRN1L	turquoise	-0.166	-0.490
NRXN3	turquoise	0.559	0.809
NSD1	turquoise	0.825	0.773
NT5C	turquoise	-0.041	-0.641
NT5DC2	turquoise	-0.591	-0.683
NTN5	turquoise	-0.599	-0.585
NUAK1	turquoise	0.536	0.825
NUDCD1	turquoise	0.829	0.745
NUDT21	turquoise	0.957	0.997
NUDT4	turquoise	0.781	0.687
NUP133	turquoise	0.836	0.795
NUP155	turquoise	0.844	0.759
NUP50	turquoise	0.935	0.966
NUPL1	turquoise	0.966	0.842
NUPR1	turquoise	-0.616	-0.817
NUS1	turquoise	0.920	0.943
NUSAP1	turquoise	-0.745	-0.840
NVL	turquoise	-0.181	-0.515
NXF1	turquoise	-0.822	-0.528
NXN	turquoise	-0.621	-0.661
NXNL1	turquoise	-0.602	-0.441
NXPH1	turquoise	0.763	0.772
NXPH2	turquoise	0.769	0.796
NYAP2	turquoise	0.715	0.564
OCRL	turquoise	0.725	0.956
ODF2	turquoise	-0.722	-0.430
ODZ1	turquoise	0.972	0.643
ODZ3	turquoise	0.727	0.885

OGT	turquoise	0.763	0.889
OIP5-AS1	turquoise	0.778	0.882
OPA1	turquoise	0.980	0.981
OR10A2	turquoise	-0.804	-0.744
OR7E14P	turquoise	-0.463	-0.768
OR8S1	turquoise	-0.500	-0.819
ORC3	turquoise	0.702	0.867
ORC4	turquoise	0.895	0.954
ORC5	turquoise	0.510	0.859
ORMDL3	turquoise	-0.596	-0.529
OSBPL1A	turquoise	0.829	0.728
OSBPL3	turquoise	0.689	0.794
OSBPL8	turquoise	0.924	0.845
OSTM1	turquoise	0.713	0.457
OTOGL	turquoise	0.504	0.563
OTUD6B	turquoise	0.785	0.799
OXCT1	turquoise	0.865	0.930
OXER1	turquoise	-0.964	-0.612
OXR1	turquoise	0.870	0.949
P2RX4	turquoise	-0.674	-0.679
P4HB	turquoise	-0.693	-0.465
PABPC1L	turquoise	-0.835	-0.712
PABPC4	turquoise	-0.835	-0.837
PAF1	turquoise	-0.829	-0.644
PAFAH1B1	turquoise	0.818	0.986
PAFAH1B2	turquoise	0.832	0.883
PAIP1	turquoise	0.665	0.492
PALB2	turquoise	0.671	0.303
PAM	turquoise	0.711	0.883
PANK1	turquoise	0.790	0.931
PANK3	turquoise	0.938	0.879
PANX1	turquoise	0.851	0.872
PAPOLG	turquoise	0.852	0.881
PAQR3	turquoise	0.899	0.787
PARG	turquoise	0.567	0.893
PARK2	turquoise	0.611	0.890
PARP11	turquoise	0.775	0.297
PARP8	turquoise	0.881	0.795
PBX1	turquoise	0.873	0.777
PBX4	turquoise	-0.694	-0.849
PCDHA3	turquoise	0.706	0.880
PCDHAC1	turquoise	0.529	0.745
PCDHB10	turquoise	0.622	0.518
PCK2	turquoise	-0.618	-0.561
PCMTD1	turquoise	0.844	0.788
PCNP	turquoise	0.956	0.885
PCNX	turquoise	0.890	0.787

PCSK4	turquoise	-0.895	-0.464
PCYOX1	turquoise	0.858	0.883
PDCD6IP	turquoise	0.885	0.905
PDDC1	turquoise	-0.737	-0.824
PDE10A	turquoise	0.792	0.912
PDE1A	turquoise	0.790	0.921
PDIK1L	turquoise	0.834	0.811
PDK3	turquoise	0.899	0.782
PDP1	turquoise	0.716	0.909
PDSS2	turquoise	0.811	0.916
PEAK1	turquoise	0.821	0.699
PEG10	turquoise	0.594	0.908
PEG3	turquoise	0.773	0.913
PELP1	turquoise	-0.625	-0.788
PENK	turquoise	0.699	0.638
PEX10	turquoise	-0.891	-0.875
PEX19	turquoise	0.813	0.938
PEX3	turquoise	0.425	0.698
PEX5L	turquoise	0.885	0.956
PFDN2	turquoise	-0.627	-0.674
PGA5	turquoise	-0.838	-0.604
PGAP1	turquoise	0.953	0.798
PGC	turquoise	-0.863	-0.537
PGM2L1	turquoise	0.784	0.708
PGPEP1	turquoise	-0.346	-0.841
PGPEP1L	turquoise	-0.795	-0.871
PGRMC1	turquoise	0.902	0.808
PGRMC2	turquoise	0.960	0.912
PHF1	turquoise	-0.630	-0.803
PHF13	turquoise	0.492	0.415
PHF6	turquoise	0.859	0.870
PHKB	turquoise	0.847	0.907
PHLDA3	turquoise	-0.629	-0.522
PHLDB3	turquoise	-0.646	-0.838
PHLPP2	turquoise	0.577	0.964
PHPT1	turquoise	-0.842	-0.536
PHTF2	turquoise	0.882	0.823
PHYHIPL	turquoise	0.882	0.922
PIAS1	turquoise	0.783	0.709
PIAS2	turquoise	0.874	0.966
PIAS3	turquoise	0.382	0.683
PIGCP1	turquoise	0.492	0.913
PIGH	turquoise	0.485	0.470
PIGK	turquoise	0.921	0.972
PIK3C3	turquoise	0.891	0.612
PIK3CA	turquoise	0.934	0.668
PIK3CB	turquoise	0.932	0.954

PIK3R1	turquoise	0.871	0.915
PIK3R4	turquoise	0.620	0.923
PIKFYVE	turquoise	0.943	0.735
PINK1-AS	turquoise	-0.847	-0.860
PITPNB	turquoise	0.827	0.939
PJA2	turquoise	0.815	0.981
PKN1	turquoise	-0.746	-0.838
PLA2G10	turquoise	-0.784	-0.482
PLA2G12A	turquoise	0.887	0.851
PLAA	turquoise	0.864	0.899
PLAG1	turquoise	0.810	0.439
PLCD3	turquoise	-0.796	-0.859
PLCD4	turquoise	-0.663	-0.654
PLCH1	turquoise	0.871	0.828
PLCL2	turquoise	0.778	0.889
PLCXD3	turquoise	0.781	0.833
PLD5	turquoise	0.765	0.914
PLDN	turquoise	0.781	0.780
PLEKHA1	turquoise	0.727	0.824
PLEKHA2	turquoise	0.774	0.813
PLEKHA8	turquoise	0.811	0.675
PLEKHA8P1	turquoise	0.724	0.449
PLEKHO1	turquoise	-0.592	-0.942
PLGLB1	turquoise	-0.766	-0.360
PLK1	turquoise	-0.883	-0.680
PLK4	turquoise	0.842	0.619
PLK5	turquoise	-0.762	-0.635
PLSCR3	turquoise	-0.916	-0.739
PLXNB2	turquoise	-0.816	-0.604
PLXNC1	turquoise	0.664	0.910
PMF1	turquoise	-0.436	-0.534
PMS2	turquoise	0.845	0.679
PMVK	turquoise	-0.672	-0.801
PNMA2	turquoise	0.722	0.946
PNPLA2	turquoise	-0.669	-0.723
POC5	turquoise	0.562	0.302
PODNL1	turquoise	-0.770	-0.814
POLR2B	turquoise	0.673	0.960
POLR2D	turquoise	0.864	0.861
POLR2H	turquoise	-0.733	-0.479
POLR2J	turquoise	-0.541	-0.581
POLR2J3	turquoise	-0.546	-0.536
POLR2J4	turquoise	-0.949	-0.498
POLR3A	turquoise	0.490	0.824
POLR3B	turquoise	0.891	0.942
POM121C	turquoise	0.335	0.683
POM121L9P	turquoise	-0.706	-0.650

POPDC3	turquoise	0.473	0.768
POR	turquoise	-0.677	-0.628
PPA2	turquoise	0.687	0.373
PPARGC1A	turquoise	0.811	0.721
PPIP5K2	turquoise	0.968	0.943
PPM1A	turquoise	0.950	0.987
PPM1G	turquoise	-0.742	-0.721
PPM1L	turquoise	0.940	0.988
PPP1CB	turquoise	0.788	0.564
PPP1R12B	turquoise	0.924	0.930
PPP1R14D	turquoise	-0.778	-0.281
PPP1R1B	turquoise	-0.663	-0.777
PPP1R2	turquoise	0.899	0.826
PPP1R21	turquoise	0.345	0.799
PPP1R2P3	turquoise	0.574	0.930
PPP1R35	turquoise	-0.514	-0.681
PPP2R2A	turquoise	0.890	0.889
PPP2R2B	turquoise	0.723	0.853
PPP2R5C	turquoise	0.914	0.805
PPP4C	turquoise	-0.846	-0.757
PPP6C	turquoise	0.894	0.863
PPT1	turquoise	0.655	0.915
PPTC7	turquoise	0.828	0.599
PQBP1	turquoise	-0.756	-0.501
PQLC2	turquoise	-0.650	-0.649
PRDM10	turquoise	0.673	0.892
PREPL	turquoise	0.951	0.952
PRG4	turquoise	0.632	0.741
PRICKLE1	turquoise	0.647	0.889
PRICKLE2	turquoise	0.884	0.825
PRICKLE2-AS3	turquoise	-0.653	-0.897
PRKAA2	turquoise	0.782	0.380
PRKAB2	turquoise	0.910	0.875
PRKAR1A	turquoise	0.681	0.987
PRKCE	turquoise	0.627	0.945
PRKCI	turquoise	0.866	0.908
PRKDC	turquoise	0.924	0.896
PRKRIP1	turquoise	-0.861	-0.869
PRKRIR	turquoise	0.865	0.569
PRNP	turquoise	0.608	0.944
PROCA1	turquoise	-0.904	-0.735
PROM1	turquoise	0.615	0.685
PRPF31	turquoise	-0.903	-0.851
PRR11	turquoise	0.448	0.384
PRR14L	turquoise	0.527	0.903
PRR22	turquoise	-0.477	-0.663
PRR25	turquoise	-0.787	-0.548

PRUNE2	turquoise	0.843	0.952
PSG5	turquoise	-0.609	-0.579
PSMC2	turquoise	0.559	0.823
PSMC6	turquoise	0.633	0.750
PSMD11	turquoise	0.563	0.390
PSME3	turquoise	0.873	0.892
PSMG1	turquoise	0.779	0.630
PSMG4	turquoise	-0.659	-0.809
PSPN	turquoise	-0.284	-0.541
PTBP2	turquoise	0.890	0.848
PTBP3	turquoise	0.867	0.744
PTCD2	turquoise	0.874	0.955
PTCHD2	turquoise	-0.552	-0.529
PTDSS2	turquoise	-0.747	-0.649
PTEN	turquoise	0.940	0.893
PTENP1	turquoise	0.910	0.912
PTGES3	turquoise	0.892	0.868
PTGIR	turquoise	-0.529	-0.566
PTGR1	turquoise	0.783	0.352
PTH1R	turquoise	-0.866	-0.362
PTP4A1	turquoise	0.898	0.759
PTPLAD1	turquoise	0.795	0.724
PTPLB	turquoise	0.840	0.886
PTPMT1	turquoise	-0.775	-0.210
PTPN11	turquoise	0.813	0.702
PTPN18	turquoise	-0.774	-0.636
PTPN3	turquoise	0.501	0.917
PTPN4	turquoise	0.891	0.958
PTPRD	turquoise	0.836	0.917
PTPRR	turquoise	0.691	0.853
PTPRT	turquoise	0.554	0.855
PUM2	turquoise	0.835	0.967
PURA	turquoise	-0.677	-0.867
PURB	turquoise	0.767	0.744
PUS1	turquoise	-0.834	-0.604
PUS7	turquoise	0.672	0.450
PYCR1	turquoise	-0.752	-0.614
QPCTL	turquoise	-0.815	-0.767
QRICH2	turquoise	-0.831	-0.674
QTRT1	turquoise	-0.803	-0.605
RAB10	turquoise	0.736	0.908
RAB11FIP2	turquoise	0.894	0.714
RAB12	turquoise	0.573	0.863
RAB13	turquoise	-0.701	-0.918
RAB14	turquoise	0.924	0.968
RAB18	turquoise	0.883	0.642
RAB1A	turquoise	0.491	0.700

RAB22A	turquoise	0.959	0.908
RAB23	turquoise	0.835	0.782
RAB2A	turquoise	0.840	0.790
RAB39B	turquoise	0.923	0.976
RAB3GAP1	turquoise	0.796	0.972
RAB3GAP2	turquoise	0.972	0.505
RAB40A	turquoise	0.470	0.451
RAB4A	turquoise	0.357	0.808
RAB6A	turquoise	0.891	0.909
RAB8B	turquoise	0.886	0.738
RABEP1	turquoise	0.910	0.736
RABGAP1	turquoise	0.832	0.340
RABGAP1L	turquoise	0.936	0.965
RABL2A	turquoise	-0.412	-0.409
RACGAP1	turquoise	0.667	0.898
RAD17	turquoise	0.869	0.950
RAD18	turquoise	0.517	0.791
RAET1E	turquoise	-0.638	-0.775
RALGAPB	turquoise	0.968	0.871
RALGPS1	turquoise	0.503	0.930
RALGPS2	turquoise	0.961	0.976
RALY	turquoise	-0.533	-0.600
RAMP1	turquoise	-0.889	-0.897
RANBP2	turquoise	0.960	0.874
RANBP6	turquoise	0.925	0.963
RAP1GDS1	turquoise	0.799	0.932
RAP2A	turquoise	0.982	0.923
RAPGEF2	turquoise	0.902	0.958
RAPH1	turquoise	0.818	0.753
RASA1	turquoise	0.829	0.940
RASA2	turquoise	0.810	0.709
RASAL2	turquoise	0.743	0.923
RASGRP4	turquoise	-0.691	-0.881
RASSF3	turquoise	0.699	0.730
RBBP5	turquoise	0.792	0.938
RBCK1	turquoise	-0.670	-0.658
RBM18	turquoise	0.787	0.916
RBM20	turquoise	0.507	0.539
RBM45	turquoise	0.536	0.747
RBM4B	turquoise	-0.520	-0.895
RBP1	turquoise	-0.742	-0.773
RBPMS2	turquoise	-0.425	-0.465
RC3H2	turquoise	0.906	0.902
RCHY1	turquoise	0.705	0.776
RCN2	turquoise	0.773	0.755
RCOR3	turquoise	0.717	0.756
RCSD1	turquoise	0.507	0.334

RDH5	turquoise	-0.639	-0.856
REC8	turquoise	-0.871	-0.431
RECQL5	turquoise	-0.794	-0.494
REEP5	turquoise	0.540	0.897
REEP6	turquoise	-0.712	-0.729
REPS1	turquoise	-0.610	-0.505
RFC3	turquoise	0.643	0.700
RFK	turquoise	0.841	0.806
RFX1	turquoise	-0.669	-0.523
RGP1	turquoise	0.621	0.878
RGS7BP	turquoise	0.951	0.952
RHBDD3	turquoise	-0.736	-0.818
RHOBTB1	turquoise	0.422	0.830
RHOT1	turquoise	0.810	0.828
RHOT1P3	turquoise	0.822	0.904
RING1	turquoise	-0.820	-0.913
RLIM	turquoise	0.986	0.884
RMND5A	turquoise	0.750	0.980
RNASEL	turquoise	0.522	0.542
RND2	turquoise	-0.625	-0.791
RNF11	turquoise	0.784	0.830
RNF135	turquoise	-0.615	-0.764
RNF14	turquoise	0.710	0.936
RNF150	turquoise	0.832	0.199
RNF168	turquoise	-0.637	-0.709
RNF180	turquoise	0.950	0.721
RNF20	turquoise	-0.518	-0.812
RNF216P1	turquoise	-0.830	-0.718
RNF38	turquoise	0.582	0.984
RNGTT	turquoise	0.985	0.958
RNPEPL1	turquoise	-0.722	-0.350
ROBO2	turquoise	0.818	0.897
RP11-100G15.7	turquoise	-0.727	-0.754
RP11-102L12.2	turquoise	0.617	0.647
RP11-1085N6.2	turquoise	0.549	0.441
RP11-126H7.3	turquoise	-0.546	-0.438
RP11-1277A3.1	turquoise	-0.659	-0.776
RP11-1277A3.2	turquoise	-0.864	-0.738
RP11-1379J22.2	turquoise	-0.851	-0.780
RP11-148K14.2	turquoise	-0.678	-0.660
RP11-158M2.3	turquoise	-0.697	-0.600
RP11-163E9.1	turquoise	-0.568	-0.932
RP1-117O3.2	turquoise	-0.434	-0.362
RP11-182J1.9	turquoise	-0.334	-0.414
RP11-184I16.2	turquoise	-0.662	-0.559
RP11-206L10.11	turquoise	0.679	0.930
RP11-219B17.1	turquoise	-0.705	-0.868

RP11-220I1.1	turquoise	0.901	0.909
RP11-247I13.7	turquoise	0.621	0.934
RP11-266K22.2	turquoise	-0.677	-0.775
RP11-293M10.5	turquoise	-0.557	-0.696
RP11-296I10.3	turquoise	-0.594	-0.735
RP11-311D14.2	turquoise	-0.796	-0.801
RP11-326F20.5	turquoise	-0.553	-0.344
RP11-355I22.5	turquoise	0.568	0.554
RP11-364C11.2	turquoise	-0.688	-0.663
RP11-365O16.6	turquoise	-0.617	-0.742
RP11-368P15.3	turquoise	-0.659	-0.778
RP11-396K3.1	turquoise	0.622	0.550
RP11-397O8.4	turquoise	0.642	0.685
RP11-402G3.3	turquoise	-0.817	-0.709
RP11-420G6.4	turquoise	0.502	0.704
RP11-439E19.8	turquoise	-0.838	-0.397
RP11-439L18.3	turquoise	-0.615	-0.905
RP11-443A13.3	turquoise	-0.816	-0.859
RP11-447D11.2	turquoise	-0.491	-0.581
RP11-455B2.8	turquoise	-0.729	-0.965
RP11-462C24.1	turquoise	-0.516	-0.603
RP11-473M20.5	turquoise	-0.789	-0.581
RP11-492E3.1	turquoise	-0.611	-0.883
RP1-149A16.17	turquoise	-0.601	-0.926
RP11-500G10.1	turquoise	-0.741	-0.530
RP11-503N18.3	turquoise	-0.695	-0.661
RP11-504G3.1	turquoise	-0.588	-0.684
RP11-513G11.1	turquoise	-0.564	-0.510
RP11-534G20.3	turquoise	0.605	0.615
RP11-537A6.9	turquoise	-0.526	-0.755
RP11-540A21.2	turquoise	-0.668	-0.881
RP11-544A12.8	turquoise	-0.639	-0.757
RP11-545E17.3	turquoise	-0.691	-0.567
RP11-550I24.2	turquoise	0.467	0.702
RP11-561C5.4	turquoise	-0.544	-0.591
RP11-582J16.5	turquoise	-0.688	-0.785
RP11-605F22.2	turquoise	0.925	0.494
RP11-611E13.2	turquoise	-0.503	-0.334
RP11-613D13.2	turquoise	-0.550	-0.612
RP11-617F23.1	turquoise	-0.824	-0.741
RP11-627G23.1	turquoise	-0.437	-0.515
RP11-644F5.11	turquoise	-0.431	-0.657
RP11-654A16.3	turquoise	-0.772	-0.882
RP11-66N24.4	turquoise	-0.879	-0.816
RP11-680A11.5	turquoise	-0.456	-0.632
RP11-686G8.2	turquoise	-0.633	-0.592
RP11-693N9.2	turquoise	-0.196	-0.692

RP11-69E11.4	turquoise	-0.819	-0.787
RP11-701P16.1	turquoise	-0.759	-0.746
RP11-702L15.2	turquoise	-0.722	-0.836
RP11-70F11.6	turquoise	0.759	0.700
RP11-728F11.4	turquoise	-0.338	-0.562
RP11-74C13.3	turquoise	-0.731	-0.565
RP11-752G15.9	turquoise	-0.639	-0.436
RP11-761I4.3	turquoise	0.332	0.513
RP11-766N7.3	turquoise	0.360	0.521
RP1-177G6.2	turquoise	-0.752	-0.796
RP11-785H5.2	turquoise	-0.472	-0.823
RP11-791G16.2	turquoise	-0.511	-0.805
RP11-82I10.1	turquoise	-0.746	-0.470
RP11-849H4.2	turquoise	-0.538	-0.798
RP11-867G23.3	turquoise	-0.719	-0.875
RP11-874J12.2	turquoise	-0.810	-0.914
RP1-239B22.1	turquoise	0.684	0.899
RP1-278C19.3	turquoise	-0.537	-0.605
RP1-310O13.7	turquoise	-0.758	-0.712
RP1-33E13.1	turquoise	-0.827	-0.668
RP13-512J5.1	turquoise	-0.315	-0.517
RP1-59D14.3	turquoise	-0.759	-0.832
RP1-80B9.2	turquoise	-0.700	-0.620
RP3-402G11.5	turquoise	-0.801	-0.680
RP3-417O22.3	turquoise	0.665	0.824
RP3-508I15.9	turquoise	-0.636	-0.569
RP3-510O8.4	turquoise	-0.899	-0.835
RP3-511B24.5	turquoise	-0.586	-0.827
RP3-523C21.1	turquoise	0.468	0.720
RP4-584D14.5	turquoise	0.529	0.577
RP4-657D16.3	turquoise	-0.707	-0.824
RP4-695O20__B.1	turquoise	-0.863	-0.593
RP4-798A10.2	turquoise	-0.874	-0.793
RP4-803J11.2	turquoise	-0.535	-0.842
RP4-805N21.1	turquoise	-0.294	-0.626
RP5-1033H22.2	turquoise	-0.566	-0.487
RP5-1068E13.3	turquoise	0.599	0.623
RP5-1071N3.1	turquoise	-0.866	-0.861
RP5-1074L1.1	turquoise	-0.522	-0.886
RP5-1180C10.2	turquoise	-0.502	-0.431
RP5-1187M17.7	turquoise	-0.713	-0.892
RP5-839B4.7	turquoise	0.565	0.532
RP5-864K19.4	turquoise	-0.620	-0.565
RP5-981O7.2	turquoise	-0.843	-0.575
RP6-109B7.3	turquoise	-0.675	-0.435
RP9	turquoise	-0.747	-0.816
RP9P	turquoise	-0.647	-0.864

RPA3	turquoise	0.604	0.836
RPAP3	turquoise	0.801	0.446
RPE	turquoise	0.919	0.931
RPGRIP1L	turquoise	0.845	0.883
RPIA	turquoise	-0.624	-0.776
RPL12	turquoise	-0.482	-0.485
RPL13	turquoise	-0.570	-0.696
RPL13A	turquoise	-0.805	-0.830
RPL18	turquoise	-0.785	-0.812
RPL32P3	turquoise	-0.761	-0.748
RPP30	turquoise	0.713	0.769
RPP40	turquoise	0.368	0.780
RPRD1A	turquoise	0.946	0.958
RPS11	turquoise	-0.870	-0.625
RPS14	turquoise	-0.917	-0.490
RPS15AP10	turquoise	-0.737	-0.886
RPS16	turquoise	-0.510	-0.463
RPS18	turquoise	-0.800	-0.409
RPS19	turquoise	-0.475	-0.577
RPS21	turquoise	-0.352	-0.230
RPS6KA3	turquoise	0.817	0.864
RPS6KC1	turquoise	0.743	0.873
RPS9	turquoise	-0.504	-0.716
RPUSD3	turquoise	-0.848	-0.743
RRAGB	turquoise	0.721	0.932
RRAGD	turquoise	0.872	0.815
RRAS	turquoise	-0.844	-0.817
RRM1	turquoise	0.857	0.940
RRM2B	turquoise	0.822	0.751
RSL24D1	turquoise	0.723	0.718
RSPO4	turquoise	-0.674	-0.225
RTCD1	turquoise	0.846	0.906
RTL1	turquoise	-0.671	-0.506
RTN3	turquoise	0.822	0.847
RUFY1	turquoise	-0.800	-0.942
RUFY3	turquoise	0.941	0.971
RYR1	turquoise	-0.834	-0.700
S100A13	turquoise	-0.650	-0.910
S100A14	turquoise	-0.626	-0.600
S100A16	turquoise	-0.699	-0.847
S1PR2	turquoise	-0.716	-0.451
SACM1L	turquoise	0.893	0.886
SACS	turquoise	0.951	0.940
SAFB2	turquoise	-0.649	-0.958
SAMD12	turquoise	0.938	0.971
SAMD13	turquoise	0.591	0.656
SAMD4B	turquoise	-0.270	-0.761

SAP30BP	turquoise	-0.645	-0.657
SAP30L	turquoise	0.776	0.776
SAR1A	turquoise	0.909	0.655
SARDH	turquoise	-0.617	-0.516
SART1	turquoise	-0.835	-0.567
SART3	turquoise	-0.817	-0.847
SC5DL	turquoise	0.887	0.905
SCAI	turquoise	0.775	0.786
SCAMP1	turquoise	0.969	0.983
SCARNA7	turquoise	-0.559	-0.156
SCFD1	turquoise	0.805	0.709
SCIMP	turquoise	-0.828	-0.630
SCN1A	turquoise	0.839	0.952
SCNM1	turquoise	-0.401	-0.492
SCO1	turquoise	0.502	0.942
SCOC	turquoise	0.798	0.866
SCPEP1	turquoise	-0.647	-0.521
SCRIB	turquoise	-0.595	-0.751
SCRN1	turquoise	0.861	0.955
SCRN3	turquoise	0.852	0.902
SCUBE3	turquoise	-0.851	-0.844
SCYL2	turquoise	0.948	0.708
SDCCAG3	turquoise	-0.486	-0.570
SDHC	turquoise	0.875	0.844
SDR9C7	turquoise	-0.477	-0.612
SEC14L2	turquoise	-0.404	-0.808
SEC14L4	turquoise	-0.524	-0.709
SEC22A	turquoise	0.717	0.866
SEC22B	turquoise	0.826	0.844
SEC23A	turquoise	0.789	0.969
SEC23IP	turquoise	0.811	0.651
SEC61A2	turquoise	0.615	0.931
SEL1L	turquoise	0.937	0.853
SELRC1	turquoise	0.519	0.802
SEMA3A	turquoise	0.479	0.689
SENP2	turquoise	0.817	0.958
SENP5	turquoise	0.495	0.835
SENP8	turquoise	0.764	0.582
SERAC1	turquoise	0.694	0.868
SERF2	turquoise	-0.825	-0.822
SERINC1	turquoise	0.731	0.934
SERINC3	turquoise	0.859	0.957
SERPING1	turquoise	-0.646	-0.684
SERPINH1	turquoise	-0.682	-0.655
SERTAD1	turquoise	-0.741	-0.755
SESN3	turquoise	0.764	0.924
SETBP1	turquoise	0.438	0.707

SETD7	turquoise	0.833	0.737
SETDB2	turquoise	0.806	0.797
SEZ6L	turquoise	0.820	0.906
SF3B2	turquoise	-0.847	-0.662
SFSWAP	turquoise	-0.639	-0.944
SGIP1	turquoise	0.942	0.961
SGTB	turquoise	0.945	0.902
SH2B2	turquoise	-0.695	-0.911
SH3BGRL	turquoise	0.764	0.536
SH3YL1	turquoise	0.611	0.597
SHC3	turquoise	0.562	0.303
SHROOM2	turquoise	0.596	0.839
SIAE	turquoise	0.796	0.824
SIAH1	turquoise	-0.631	-0.852
SIGLEC5	turquoise	-0.213	-0.547
SIKE1	turquoise	0.824	0.777
SIRT5	turquoise	0.663	0.785
SIRT7	turquoise	-0.885	-0.450
SKIL	turquoise	0.887	0.705
SKIV2L2	turquoise	0.807	0.831
SLA2	turquoise	-0.582	-0.643
SLC10A4	turquoise	0.619	0.735
SLC12A6	turquoise	0.702	0.951
SLC16A13	turquoise	-0.699	-0.479
SLC16A2	turquoise	0.479	0.785
SLC16A7	turquoise	0.902	0.735
SLC17A5	turquoise	0.668	0.612
SLC18A2	turquoise	0.628	0.593
SLC19A1	turquoise	-0.613	-0.625
SLC23A3	turquoise	-0.513	-0.592
SLC25A1	turquoise	-0.697	-0.928
SLC25A16	turquoise	0.604	0.764
SLC25A24	turquoise	0.772	0.520
SLC25A28	turquoise	-0.698	-0.917
SLC25A32	turquoise	0.852	0.760
SLC25A34	turquoise	-0.587	-0.835
SLC25A36	turquoise	0.882	0.722
SLC25A37	turquoise	-0.597	-0.686
SLC25A39	turquoise	-0.800	-0.794
SLC25A40	turquoise	0.899	0.971
SLC25A41	turquoise	-0.458	-0.650
SLC25A46	turquoise	0.866	0.980
SLC27A3	turquoise	-0.896	-0.562
SLC27A5	turquoise	-0.696	-0.697
SLC2A4RG	turquoise	-0.697	-0.661
SLC30A4	turquoise	0.788	0.931
SLC30A9	turquoise	0.912	0.970

SLC35A5	turquoise	0.852	0.806
SLC35B4	turquoise	0.914	0.953
SLC35F1	turquoise	0.681	0.835
SLC35G5	turquoise	-0.868	-0.913
SLC36A1	turquoise	0.668	0.906
SLC38A1	turquoise	0.863	0.662
SLC38A10	turquoise	-0.650	-0.305
SLC39A5	turquoise	-0.602	-0.704
SLC39A6	turquoise	0.776	0.773
SLC39A9	turquoise	0.696	0.826
SLC41A2	turquoise	0.864	0.720
SLC4A11	turquoise	-0.789	-0.819
SLC4A8	turquoise	0.878	0.901
SLC52A1	turquoise	-0.737	-0.862
SLC52A2	turquoise	-0.781	-0.420
SLC5A3	turquoise	0.820	0.656
SLC6A12	turquoise	-0.435	-0.636
SLC6A15	turquoise	0.955	0.963
SLC8A1	turquoise	0.515	0.891
SLC9A6	turquoise	0.816	0.975
SLC9A7	turquoise	0.934	0.912
SLC9A7P1	turquoise	0.688	0.848
SLC9C2	turquoise	-0.547	-0.537
SLCO5A1	turquoise	-0.502	-0.784
SLFNL1	turquoise	-0.844	-0.804
SLITRK1	turquoise	0.670	0.933
SLITRK3	turquoise	0.831	0.945
SLMO1	turquoise	-0.790	-0.410
SMARCAD1	turquoise	0.898	0.872
SMARCB1	turquoise	-0.804	-0.470
SMG6	turquoise	-0.762	-0.700
SMPD2	turquoise	-0.856	-0.571
SNHG3	turquoise	-0.720	-0.818
SNHG7	turquoise	-0.733	-0.798
SNORA70G	turquoise	-0.580	-0.829
SNORA76	turquoise	-0.512	-0.769
SNORD64	turquoise	0.285	0.699
SNORD70	turquoise	-0.519	-0.757
snoU13	turquoise	0.867	0.823
SNRK	turquoise	0.811	0.894
SNURF	turquoise	-0.567	-0.918
SNX12	turquoise	0.729	0.937
SNX13	turquoise	0.947	0.755
SNX14	turquoise	0.823	0.849
SNX19	turquoise	0.752	0.709
SNX25	turquoise	0.724	0.714
SNX30	turquoise	0.747	0.953

SNX4	turquoise	0.903	0.754
SNX7	turquoise	0.920	0.696
SOCS5	turquoise	0.803	0.939
SOCS7	turquoise	0.709	0.853
SOLH	turquoise	-0.597	-0.552
SORL1	turquoise	0.758	0.916
SOS1	turquoise	0.921	0.818
SP140	turquoise	-0.327	-0.661
SP8	turquoise	0.734	0.445
SPAST	turquoise	0.926	0.862
SPATA21	turquoise	-0.707	-0.605
SPATA7	turquoise	0.916	0.593
SPCS3	turquoise	0.933	0.941
SPDYE1	turquoise	-0.830	-0.611
SPIN1	turquoise	0.935	0.962
SPIN3	turquoise	0.662	0.928
SPIRE1	turquoise	0.928	0.594
SPPL3	turquoise	0.788	0.727
SPRYD4	turquoise	-0.749	-0.603
SPSB2	turquoise	-0.443	-0.624
SQRDL	turquoise	-0.557	-0.706
SRA1	turquoise	-0.703	-0.597
SRP19	turquoise	0.674	0.829
SRRD	turquoise	0.414	0.740
SRRM5	turquoise	-0.644	-0.554
SRRT	turquoise	-0.562	-0.622
SRSF1	turquoise	0.719	0.681
SRSF4	turquoise	-0.823	-0.785
SRSF9	turquoise	-0.438	-0.497
SRXN1	turquoise	0.714	0.561
SSBP2	turquoise	0.874	0.974
SSTR2	turquoise	0.394	0.494
SSTR4	turquoise	0.543	0.805
SSX2IP	turquoise	0.763	0.960
ST13	turquoise	0.892	0.369
ST3GAL5	turquoise	0.648	0.682
ST3GAL6	turquoise	0.580	0.731
ST6GAL1	turquoise	0.582	0.609
ST6GAL2	turquoise	0.683	0.808
ST8SIA1	turquoise	0.864	0.856
ST8SIA4	turquoise	0.948	0.872
STAB2	turquoise	-0.526	-0.685
STAG3L3	turquoise	-0.580	-0.594
STAMBPL1	turquoise	0.700	0.840
STAP2	turquoise	-0.714	-0.582
STARD10	turquoise	-0.489	-0.519
STARD13	turquoise	0.485	0.611

STARD3NL	turquoise	0.604	0.378
STARD4	turquoise	0.873	0.685
STARD7	turquoise	0.642	0.905
STAU2	turquoise	0.881	0.844
STH	turquoise	-0.822	-0.841
STK39	turquoise	0.848	0.899
STK4	turquoise	0.829	0.820
STMN1	turquoise	0.598	0.709
STT3B	turquoise	0.915	0.922
STX10	turquoise	-0.903	-0.625
STX12	turquoise	0.946	0.907
STX18	turquoise	-0.638	-0.759
STX3	turquoise	0.287	0.527
STX6	turquoise	0.620	0.899
STX7	turquoise	0.876	0.965
STXBP5L	turquoise	0.918	0.944
SUB1	turquoise	0.877	0.900
SUGT1P	turquoise	0.939	0.537
SULT1A1	turquoise	-0.528	-0.545
SUMO4	turquoise	-0.739	-0.806
SUPT16H	turquoise	0.786	0.845
SV2C	turquoise	0.562	0.841
SWI5	turquoise	-0.897	-0.655
SYAP1	turquoise	0.763	0.129
SYN3	turquoise	0.628	0.768
SYNPO2	turquoise	0.489	0.851
SYT11	turquoise	0.830	0.913
SYT14	turquoise	0.941	0.751
SYT16	turquoise	0.855	0.686
SYTL1	turquoise	-0.499	-0.698
SYTL5	turquoise	0.755	0.704
TAB3	turquoise	0.947	0.986
TADA1	turquoise	0.683	0.953
TADA2A	turquoise	0.559	0.526
TAF13	turquoise	0.438	0.478
TAF2	turquoise	0.924	0.568
TAF9B	turquoise	0.865	0.824
TANC2	turquoise	0.703	0.962
TAOK1	turquoise	0.930	0.282
TAS1R3	turquoise	-0.563	-0.542
TBC1D19	turquoise	0.937	0.941
TBC1D30	turquoise	0.693	0.905
TBC1D4	turquoise	0.774	0.903
TBC1D5	turquoise	0.802	0.946
TBC1D8B	turquoise	0.899	0.566
TBCEL	turquoise	0.879	0.848
TBK1	turquoise	0.856	0.755

TBKBP1	turquoise	-0.663	-0.719
TBL1XR1	turquoise	0.914	0.961
TBR1	turquoise	0.753	0.884
TBRG1	turquoise	0.702	0.896
TCAP	turquoise	-0.844	-0.899
TCEAL7	turquoise	0.828	0.845
TCF20	turquoise	0.688	0.926
TCP1	turquoise	0.872	0.909
TCP11L1	turquoise	0.892	0.958
TDP1	turquoise	0.709	0.889
TDRD7	turquoise	0.747	0.905
TELO2	turquoise	-0.357	-0.461
TERF2	turquoise	0.612	0.801
TEX22	turquoise	-0.511	-0.638
TFB2M	turquoise	0.564	0.913
TFDP1	turquoise	-0.148	-0.677
TGFBRAP1	turquoise	0.526	0.917
TGOLN2	turquoise	0.930	0.877
THAP5	turquoise	0.745	0.470
THBS3	turquoise	-0.788	-0.801
THEM5	turquoise	0.578	0.750
THNSL1	turquoise	0.433	0.763
THRSP	turquoise	-0.638	-0.664
TIAM1	turquoise	0.827	0.862
TIGD5	turquoise	-0.780	-0.549
TIMM44	turquoise	-0.804	-0.824
TIMM8A	turquoise	0.587	0.842
TIMP1	turquoise	-0.886	-0.792
TIMP4	turquoise	-0.852	-0.505
TIPRL	turquoise	0.782	0.952
TJP3	turquoise	-0.782	-0.689
TKT	turquoise	-0.836	-0.546
TLE3	turquoise	-0.614	-0.662
TLK1	turquoise	0.824	0.876
TM2D2	turquoise	0.685	0.926
TM7SF3	turquoise	0.750	0.915
TM9SF2	turquoise	0.982	0.978
TM9SF3	turquoise	0.887	0.684
TMC4	turquoise	-0.454	-0.374
TMCC1	turquoise	0.899	0.767
TMED2	turquoise	0.880	0.486
TMED8	turquoise	0.926	0.842
TMEM106B	turquoise	0.885	0.880
TMEM115	turquoise	-0.370	-0.695
TMEM117	turquoise	0.834	0.907
TMEM120A	turquoise	-0.823	-0.824
TMEM126B	turquoise	0.722	0.553

TMEM131	turquoise	0.368	0.867
TMEM132B	turquoise	0.861	0.777
TMEM150B	turquoise	-0.518	-0.688
TMEM167A	turquoise	0.799	0.780
TMEM169	turquoise	0.775	0.822
TMEM170B	turquoise	0.927	0.929
TMEM18	turquoise	0.620	0.431
TMEM181	turquoise	0.909	0.956
TMEM184C	turquoise	0.879	0.606
TMEM19	turquoise	0.897	0.667
TMEM194B	turquoise	0.802	0.851
TMEM199	turquoise	0.620	0.609
TMEM213	turquoise	-0.824	-0.457
TMEM216	turquoise	-0.854	-0.889
TMEM217	turquoise	-0.536	-0.546
TMEM219	turquoise	-0.850	-0.840
TMEM242	turquoise	0.623	0.772
TMEM30A	turquoise	0.889	0.976
TMEM33	turquoise	0.914	0.963
TMEM42	turquoise	-0.873	-0.560
TMEM45B	turquoise	-0.635	-0.633
TMEM48	turquoise	0.908	0.961
TMEM66	turquoise	0.819	0.822
TMEM74	turquoise	0.761	0.918
TMEM86A	turquoise	0.646	0.653
TMEM87B	turquoise	0.720	0.807
TMEM91	turquoise	-0.717	-0.815
TMEM99	turquoise	0.665	0.270
TMOD2	turquoise	0.969	0.954
TMPO	turquoise	0.916	0.670
TMPPE	turquoise	0.773	0.459
TMSB15B	turquoise	0.714	0.803
TMTC1	turquoise	0.968	0.522
TMUB1	turquoise	-0.867	-0.738
TMX3	turquoise	0.945	0.931
TMX4	turquoise	0.794	0.919
TNKS	turquoise	0.876	0.862
TNKS1BP1	turquoise	-0.743	-0.581
TNNC2	turquoise	-0.746	-0.373
TNNT1	turquoise	-0.698	-0.753
TNR	turquoise	0.583	0.866
TOE1	turquoise	-0.432	-0.515
TOMM20	turquoise	0.800	0.929
TOMM70A	turquoise	0.909	0.966
TOP2B	turquoise	0.919	0.850
TOPBP1	turquoise	0.891	0.926
TOR3A	turquoise	-0.483	-0.626

TOX4	turquoise	0.470	0.809
TP53BP1	turquoise	0.586	0.915
TP53I13	turquoise	-0.797	-0.794
TPH2	turquoise	0.750	0.677
TPM2	turquoise	-0.776	-0.574
TPP2	turquoise	0.918	0.809
TPRA1	turquoise	-0.936	-0.797
TRABD	turquoise	-0.870	-0.657
TRAK2	turquoise	0.799	0.404
TRAPPC11	turquoise	0.884	0.926
TRAPPC4	turquoise	-0.728	-0.298
TRAPPC6A	turquoise	-0.722	-0.316
TRAPPC6B	turquoise	0.838	0.953
TRAPPC8	turquoise	0.959	0.874
TRHDE	turquoise	0.937	0.905
TRIM23	turquoise	0.854	0.975
TRIM26P1	turquoise	-0.650	-0.535
TRIM52	turquoise	-0.444	-0.397
TRIM67	turquoise	0.396	0.633
TRIP12	turquoise	0.913	0.768
TRMT12	turquoise	0.774	0.781
TRMT61B	turquoise	0.583	0.815
TRNT1	turquoise	0.846	0.674
TRPC1	turquoise	0.981	0.929
TRPT1	turquoise	-0.808	-0.578
TRUB1	turquoise	0.881	0.928
TSC1	turquoise	0.380	0.802
TSC22D2	turquoise	0.843	0.519
TSEN34	turquoise	-0.749	-0.874
TSHR	turquoise	-0.750	-0.716
TSHZ3	turquoise	0.216	0.708
TSN	turquoise	0.830	0.910
TSNAX	turquoise	0.867	0.948
TSNAXIP1	turquoise	-0.680	-0.630
TSPAN1	turquoise	-0.663	-0.341
TSPAN16	turquoise	-0.620	-0.832
TSPAN19	turquoise	0.610	0.451
TSPAN2	turquoise	0.776	0.855
TSPAN5	turquoise	0.729	0.878
TSPAN7	turquoise	-0.529	-0.420
TSPYL5	turquoise	0.580	0.952
TTBK2	turquoise	0.958	0.851
TTC21B	turquoise	0.955	0.853
TTC27	turquoise	0.750	0.671
TTC33	turquoise	0.964	0.956
TTC37	turquoise	0.868	0.918
TTL	turquoise	0.759	0.896

TTLL13	turquoise	-0.652	-0.548
TTPAL	turquoise	0.966	0.690
TUT1	turquoise	-0.940	-0.879
TXN2	turquoise	-0.903	-0.755
TXNDC15	turquoise	0.830	0.662
TXNDC16	turquoise	0.904	0.946
TXNDC9	turquoise	0.765	0.663
TXNL1	turquoise	0.784	0.882
TXNRD2	turquoise	-0.863	-0.608
U2AF1	turquoise	-0.849	-0.780
U47924.19	turquoise	-0.395	-0.753
U47924.25	turquoise	-0.812	-0.450
UAP1	turquoise	0.366	0.404
UBA3	turquoise	0.863	0.810
UBA5	turquoise	0.779	0.923
UBA6	turquoise	0.907	0.675
UBAC2	turquoise	-0.537	-0.783
UBE2A	turquoise	0.888	0.829
UBE2D1	turquoise	0.619	0.758
UBE2D2	turquoise	0.721	0.778
UBE2D3	turquoise	0.934	0.732
UBE2G1	turquoise	0.845	0.845
UBE2K	turquoise	0.846	0.972
UBE2L6	turquoise	-0.794	-0.828
UBE2N	turquoise	0.917	0.951
UBE2W	turquoise	0.436	0.730
UBE3C	turquoise	0.640	0.878
UBE4A	turquoise	0.759	0.846
UBE4B	turquoise	0.627	0.929
UBFD1	turquoise	0.556	0.936
UBL3	turquoise	0.891	0.906
UBLCP1	turquoise	0.785	0.695
UBP1	turquoise	0.696	0.896
UBQLN1	turquoise	0.925	0.989
UBQLN2	turquoise	0.589	0.928
UBR1	turquoise	0.963	0.663
UBR3	turquoise	0.960	0.987
UBR7	turquoise	0.734	0.765
UBTD1	turquoise	-0.893	-0.904
UBTD2	turquoise	0.930	0.547
UBXN1	turquoise	-0.851	-0.751
UBXN2B	turquoise	0.855	0.964
UCHL5	turquoise	0.847	0.886
UCK1	turquoise	-0.824	-0.774
UCN	turquoise	-0.552	-0.740
UCP3	turquoise	-0.786	-0.853
UFM1	turquoise	0.934	0.740

UGCG	turquoise	0.724	0.922
UGP2	turquoise	0.732	0.853
UHMK1	turquoise	0.940	0.961
UHRF1BP1L	turquoise	0.983	0.949
ULK2	turquoise	0.645	0.960
UNC45A	turquoise	-0.779	-0.451
UNC5D	turquoise	0.767	0.887
UNC80	turquoise	0.691	0.925
UPB1	turquoise	-0.677	-0.641
UPK2	turquoise	-0.479	-0.687
UPK3B	turquoise	-0.523	-0.706
USF2	turquoise	-0.760	-0.718
USO1	turquoise	0.911	0.837
USP10	turquoise	0.730	0.548
USP12	turquoise	0.893	0.807
USP13	turquoise	0.651	0.700
USP14	turquoise	0.908	0.945
USP15	turquoise	0.973	0.749
USP25	turquoise	0.939	0.906
USP31	turquoise	0.806	0.944
USP32	turquoise	0.882	0.971
USP33	turquoise	0.923	0.970
USP36	turquoise	-0.572	-0.897
USP39	turquoise	-0.786	-0.672
USP46	turquoise	0.812	0.718
USP7	turquoise	0.904	0.953
USP9X	turquoise	0.857	0.832
USPL1	turquoise	0.805	0.798
UTP6	turquoise	-0.283	-0.523
VAMP4	turquoise	0.934	0.875
VAMP5	turquoise	-0.813	-0.889
VAPA	turquoise	0.763	0.926
VAPB	turquoise	0.921	0.962
VASP	turquoise	-0.578	-0.675
VAT1L	turquoise	0.674	0.954
VBP1	turquoise	0.875	0.751
VCPIP1	turquoise	0.863	0.933
VEGFB	turquoise	-0.811	-0.888
VEZT	turquoise	0.911	0.714
VIP	turquoise	0.832	0.813
VKORC1L1	turquoise	0.972	0.938
VMP1	turquoise	0.816	0.860
VPS13A	turquoise	0.773	0.638
VPS13B	turquoise	0.836	0.826
VPS13D	turquoise	0.778	0.833
VPS26A	turquoise	0.914	0.632
VPS37A	turquoise	0.889	0.722

VPS37B	turquoise	-0.547	-0.748
VPS41	turquoise	0.847	0.802
VPS8	turquoise	0.771	0.811
VTA1	turquoise	0.897	0.963
VTI1A	turquoise	0.967	0.900
VTN	turquoise	-0.880	-0.725
VWC2L	turquoise	0.806	0.923
VWCE	turquoise	-0.683	-0.825
WAC	turquoise	0.806	0.831
WASH2P	turquoise	-0.827	-0.329
WASH4P	turquoise	-0.499	-0.545
WASL	turquoise	0.915	0.893
WBSCR16	turquoise	-0.404	-0.836
WDFY1	turquoise	0.882	0.658
WDR12	turquoise	0.919	0.954
WDR17	turquoise	0.898	0.973
WDR26	turquoise	0.969	0.882
WDR36	turquoise	0.955	0.823
WDR37	turquoise	0.572	0.835
WDR41	turquoise	0.891	0.878
WDR44	turquoise	0.820	0.960
WDR48	turquoise	0.863	0.525
WDR60	turquoise	-0.667	-0.869
WDR66	turquoise	-0.690	-0.500
WDR70	turquoise	-0.839	-0.841
WFDC3	turquoise	-0.750	-0.426
WFS1	turquoise	-0.507	-0.621
WIPI1	turquoise	-0.736	-0.660
WNT5A	turquoise	0.752	0.820
WNT8A	turquoise	-0.636	-0.575
WWC1	turquoise	-0.664	-0.475
WWP1	turquoise	0.887	0.909
XKR6	turquoise	-0.688	-0.876
XPR1	turquoise	0.922	0.958
XRCC5	turquoise	0.811	0.728
YEATS2	turquoise	0.634	0.945
YIPF5	turquoise	0.954	0.760
YME1L1	turquoise	0.904	0.639
YOD1	turquoise	0.830	0.723
YPEL2	turquoise	0.786	0.929
YPEL5	turquoise	0.629	0.845
YTHDC2	turquoise	0.819	0.737
YTHDF3	turquoise	0.874	0.897
YWHAZ	turquoise	0.752	0.887
Z97634.5	turquoise	-0.572	-0.833
ZADH2	turquoise	0.773	0.856
ZBTB11	turquoise	0.965	0.894

ZBTB24	turquoise	0.887	0.944
ZBTB38	turquoise	0.877	0.716
ZBTB41	turquoise	0.962	0.650
ZBTB44	turquoise	0.924	0.737
ZBTB48	turquoise	-0.914	-0.668
ZBTB9	turquoise	0.058	0.462
ZC3H12B	turquoise	0.825	0.981
ZC3H13	turquoise	-0.506	-0.782
ZC3HAV1L	turquoise	0.364	0.744
ZDBF2	turquoise	0.918	0.894
ZDHHC15	turquoise	0.851	0.890
ZDHHC17	turquoise	0.848	0.924
ZDHHC18	turquoise	-0.879	-0.632
ZDHHC19	turquoise	-0.937	-0.794
ZDHHC20	turquoise	0.781	0.808
ZDHHC21	turquoise	0.920	0.830
ZDHHC24	turquoise	-0.745	-0.421
ZDHHC4	turquoise	0.580	0.496
ZDHHC6	turquoise	0.501	0.768
ZFAND1	turquoise	0.966	0.845
ZFHX2	turquoise	-0.685	-0.591
ZFP161	turquoise	0.732	0.778
ZFP62	turquoise	0.430	0.553
ZFP90	turquoise	0.531	0.455
ZFP91	turquoise	0.827	0.786
ZFPM1	turquoise	-0.658	-0.561
ZFYVE20	turquoise	0.762	0.914
ZFYVE21	turquoise	-0.766	-0.480
ZMAT3	turquoise	0.874	0.823
ZMAT5	turquoise	-0.809	-0.858
ZMYM2	turquoise	0.939	0.915
ZMYM4	turquoise	0.951	0.980
ZMYND8	turquoise	-0.657	-0.695
ZNF12	turquoise	0.748	0.588
ZNF133	turquoise	-0.920	-0.719
ZNF134	turquoise	0.610	0.886
ZNF138	turquoise	0.948	0.938
ZNF157	turquoise	0.449	0.697
ZNF180	turquoise	0.786	0.547
ZNF184	turquoise	0.453	0.729
ZNF23	turquoise	0.384	0.708
ZNF248	turquoise	0.755	0.916
ZNF25	turquoise	0.911	0.953
ZNF252	turquoise	0.621	0.794
ZNF287	turquoise	0.770	0.832
ZNF30	turquoise	-0.714	-0.189
ZNF322	turquoise	0.857	0.724

ZNF323	turquoise	0.767	0.562
ZNF33B	turquoise	0.922	0.691
ZNF34	turquoise	-0.509	-0.703
ZNF346	turquoise	-0.826	-0.489
ZNF365	turquoise	0.834	0.847
ZNF37BP	turquoise	0.885	0.739
ZNF382	turquoise	0.505	0.787
ZNF385B	turquoise	0.575	0.901
ZNF391	turquoise	0.352	0.498
ZNF396	turquoise	0.620	0.402
ZNF41	turquoise	0.903	0.904
ZNF423	turquoise	-0.827	-0.713
ZNF461	turquoise	0.452	0.750
ZNF468	turquoise	0.496	0.341
ZNF470	turquoise	0.720	0.536
ZNF484	turquoise	0.842	0.842
ZNF485	turquoise	0.754	0.557
ZNF503	turquoise	-0.445	-0.634
ZNF510	turquoise	0.855	0.971
ZNF514	turquoise	-0.556	-0.593
ZNF525	turquoise	0.805	0.627
ZNF526	turquoise	-0.778	-0.478
ZNF542	turquoise	0.867	0.846
ZNF552	turquoise	-0.779	-0.932
ZNF556	turquoise	-0.621	-0.516
ZNF563	turquoise	-0.346	-0.788
ZNF570	turquoise	0.814	0.837
ZNF579	turquoise	-0.604	-0.697
ZNF580	turquoise	-0.638	-0.726
ZNF581	turquoise	-0.826	-0.569
ZNF586	turquoise	-0.807	-0.740
ZNF610	turquoise	0.562	0.438
ZNF626	turquoise	0.806	0.403
ZNF639	turquoise	0.689	0.554
ZNF643	turquoise	0.550	0.921
ZNF655	turquoise	0.906	0.691
ZNF658	turquoise	0.663	0.738
ZNF664	turquoise	0.775	0.503
ZNF672	turquoise	-0.719	-0.674
ZNF675	turquoise	0.897	0.941
ZNF681	turquoise	0.670	0.646
ZNF688	turquoise	-0.582	-0.601
ZNF704	turquoise	0.882	0.743
ZNF711	turquoise	0.799	0.953
ZNF718	turquoise	0.456	0.530
ZNF720	turquoise	0.622	0.436
ZNF721	turquoise	0.666	0.686

ZNF737	turquoise	0.768	0.752
ZNF75D	turquoise	0.685	0.833
ZNF768	turquoise	-0.885	-0.797
ZNF770	turquoise	0.893	0.923
ZNF773	turquoise	-0.209	-0.915
ZNF776	turquoise	0.750	0.941
ZNF778	turquoise	0.597	0.786
ZNF780A	turquoise	0.824	0.907
ZNF780B	turquoise	0.602	0.842
ZNF784	turquoise	-0.845	-0.597
ZNF804B	turquoise	0.712	0.749
ZNF814	turquoise	-0.459	-0.933
ZNRD1	turquoise	-0.840	-0.870
ZRANB1	turquoise	0.840	0.942
ZSCAN22	turquoise	-0.909	-0.823
ZUFSP	turquoise	0.461	0.500
ZW10	turquoise	0.784	0.874
ZWILCH	turquoise	0.569	0.914
ZXDA	turquoise	0.829	0.553
ZXDB	turquoise	0.901	0.924
ZYG11B	turquoise	0.917	0.862
ZZZ3	turquoise	0.881	0.815
AC005726.6	white	0.712	0.844
AC025335.1	white	0.878	0.789
AC034220.3	white	0.895	0.714
AC091172.1	white	0.831	0.809
ACRC	white	0.872	0.840
ADAM20	white	0.670	0.730
AGAP1	white	-0.879	-0.782
ALKBH5	white	-0.748	-0.659
AP000867.1	white	0.796	0.851
BNIPL	white	0.695	0.764
BTBD18	white	0.743	0.522
C12orf76	white	-0.848	-0.885
C19orf45	white	-0.556	-0.422
C6orf163	white	0.871	0.831
C8orf56	white	0.739	0.855
CACNA1C-AS2	white	0.764	0.833
CELF1	white	0.660	0.480
CLCF1	white	0.845	0.901
CMYA5	white	0.621	0.686
COBL	white	-0.937	-0.827
CPA4	white	-0.753	-0.701
CUZD1	white	0.448	0.680
CXCL14	white	0.629	0.632
CYP26A1	white	-0.831	-0.879
CYP27C1	white	0.616	0.589

CYP3A5	white	0.866	0.851
DPP3	white	-0.785	-0.579
DPYSL5	white	-0.859	-0.899
DUSP27	white	-0.768	-0.845
EGOT	white	0.585	0.539
FAM104A	white	0.604	0.290
FAM218A	white	-0.759	-0.581
FER1L4	white	0.639	0.717
FIBCD1	white	-0.828	-0.976
FIGF	white	0.695	0.797
FILIP1	white	-0.636	-0.716
FOXJ2	white	-0.771	-0.890
GORASP2	white	-0.836	-0.843
GPD1	white	-0.845	-0.887
GPR18	white	0.858	0.857
GRIK3	white	-0.929	-0.945
GSDMB	white	0.895	0.825
HES7	white	0.765	0.917
HIST1H2BN	white	-0.713	-0.713
HS3ST4	white	-0.774	-0.913
HSD3B1	white	0.917	0.764
IGFL4	white	0.695	0.726
INTS10	white	0.803	0.875
ISOC1	white	-0.929	-0.856
JAKMIP3	white	-0.778	-0.858
KCNK2	white	-0.869	-0.974
KIF2C	white	0.549	0.840
LARP6	white	-0.648	-0.894
LINC00158	white	0.856	0.926
LINC00202	white	0.681	0.829
MBP	white	-0.760	-0.499
MMACHC	white	-0.864	-0.844
MOK	white	0.915	0.767
MSS51	white	0.890	0.714
MSX1	white	0.510	0.804
MTL5	white	-0.732	-0.550
MYADM	white	-0.831	-0.956
NAGS	white	0.818	0.826
NIPAL3	white	-0.939	-0.893
NKAIN1	white	-0.690	-0.641
NKAIN2	white	-0.904	-0.964
NME1-NME2	white	0.805	0.714
NOS1	white	-0.661	-0.685
NR4A2	white	-0.649	-0.665
OIP5	white	0.845	0.745
OLFML2B	white	-0.830	-0.932
PCDH17	white	-0.822	-0.770

PCID2	white	0.653	0.635
PLA2R1	white	0.720	0.624
PNPLA1	white	-0.830	-0.617
PRLR	white	-0.878	-0.493
PROZ	white	0.710	0.634
PRUNE	white	-0.854	-0.882
PVRL1	white	-0.692	-0.931
PXMP4	white	-0.797	-0.914
RAB3B	white	-0.701	-0.883
RADIL	white	0.788	0.538
RNFT1	white	0.697	0.870
RP11-133O22.6	white	0.846	0.895
RP11-190J1.10	white	0.819	0.797
RP11-264F23.3	white	0.836	0.827
RP11-304N14.2	white	0.718	0.488
RP11-327I22.6	white	0.578	0.774
RP11-345J4.8	white	0.584	0.638
RP11-373L8.2	white	0.698	0.758
RP11-867G2.8	white	-0.803	-0.885
RP4-655J12.3	white	0.797	0.768
SCARA5	white	-0.755	-0.722
SDK2	white	-0.868	-0.945
SERPIND1	white	0.888	0.784
SH3GL3	white	-0.758	-0.925
SIRT4	white	0.867	0.490
SLC16A11	white	0.697	0.265
SLC17A8	white	-0.741	-0.857
SLC22A4	white	0.830	0.648
SLC38A11	white	0.825	0.954
SLC47A2	white	0.687	0.633
SPAG4	white	0.755	0.666
SPAG5-AS1	white	0.779	0.936
SYT6	white	-0.894	-0.894
TCTEX1D2	white	0.783	0.817
TERT	white	0.700	0.689
TIMP2	white	-0.926	-0.884
TMEM44	white	0.882	0.725
TMPRSS11F	white	0.785	0.776
TNFRSF25	white	0.765	0.740
TNFSF13B	white	0.805	0.699
TPPP	white	-0.685	-0.830
TRIM7	white	0.810	0.806
UPK1B	white	0.953	0.845
UPP1	white	0.783	0.593
WBP11	white	-0.758	-0.849
WDR63	white	0.833	0.765
ZFP64	white	-0.762	-0.888

ZNF521	white	-0.567	-0.825
ZNF689	white	-0.928	-0.489
ZNF714	white	0.802	0.636
MARCH10	yellow	-0.667	-0.770
A2LD1	yellow	0.794	0.398
A2ML1	yellow	0.857	0.730
AAGAB	yellow	-0.841	-0.862
ABCC11	yellow	0.895	0.907
ABHD1	yellow	0.578	0.653
ABHD15	yellow	0.864	0.601
ABHD4	yellow	0.924	0.933
ABHD5	yellow	0.899	0.729
AC000120.7	yellow	0.718	0.609
AC004148.1	yellow	0.624	0.879
AC006111.1	yellow	0.771	0.797
AC007464.1	yellow	0.626	0.850
AC007566.10	yellow	0.647	0.870
AC007750.5	yellow	-0.657	-0.873
AC008888.7	yellow	0.523	0.811
AC009133.14	yellow	0.417	0.453
AC012307.3	yellow	-0.658	-0.780
AC012652.1	yellow	-0.756	-0.837
AC020907.1	yellow	0.895	0.308
AC068831.6	yellow	0.600	0.672
AC084018.1	yellow	0.795	0.889
AC093484.6	yellow	-0.505	-0.783
AC093734.11	yellow	-0.404	-0.830
AC097359.1	yellow	0.675	0.636
AC097468.7	yellow	-0.517	-0.663
AC135178.1	yellow	0.778	0.736
ACAA2	yellow	0.926	0.900
ACACB	yellow	0.982	0.909
ACADS	yellow	0.856	0.894
ACBD7	yellow	0.867	0.770
ACO1	yellow	0.904	0.936
ACOT11	yellow	0.808	0.895
ACOX1	yellow	0.793	0.878
ACOX2	yellow	0.908	0.872
ACP6	yellow	0.770	0.703
ACSF2	yellow	0.883	0.489
ACSS3	yellow	0.874	0.848
ADAM12	yellow	0.868	0.832
ADCY8	yellow	0.793	0.938
ADCYAP1R1	yellow	0.741	0.870
ADD3	yellow	0.886	0.885
ADHFE1	yellow	0.941	0.901
AGBL2	yellow	0.746	0.515

AGER	yellow	0.919	0.845
AGTRAP	yellow	0.883	0.873
AHCYL1	yellow	0.972	0.936
AHNAK2	yellow	-0.867	-0.769
AKIRIN2	yellow	-0.619	-0.666
AKR1C1	yellow	-0.616	-0.909
AKR1C3	yellow	0.828	0.964
AKR7A3	yellow	0.766	0.648
ALDH1L1-AS2	yellow	0.707	0.666
ALDH4A1	yellow	0.911	0.833
ALDH6A1	yellow	0.867	0.869
ALDH7A1	yellow	0.939	0.929
ALDH9A1	yellow	0.891	0.846
AMOT	yellow	0.891	0.861
ANAPC13	yellow	-0.950	-0.672
ANKFN1	yellow	0.714	0.676
ANKRD17	yellow	-0.508	-0.723
ANTXR1	yellow	0.891	0.945
AP000282.2	yellow	0.682	0.555
APCDD1L	yellow	0.425	0.669
APH1A	yellow	0.795	0.786
APITD1	yellow	-0.685	-0.916
APOBEC2	yellow	0.632	0.836
AR	yellow	0.369	0.614
ARHGEF26	yellow	0.902	0.965
ARHGEF40	yellow	0.917	0.804
ARL17A	yellow	0.821	0.849
ARL6IP5	yellow	-0.742	-0.894
ARSF	yellow	0.910	0.796
ARSI	yellow	0.692	0.726
ARX	yellow	0.599	0.462
ASAP3	yellow	0.970	0.912
ATAT1	yellow	0.613	0.389
ATG16L1	yellow	-0.675	-0.729
ATP1A2	yellow	0.945	0.954
ATP1B3	yellow	-0.809	-0.706
ATP6V0E1	yellow	0.880	0.931
ATP6V0E2	yellow	-0.731	-0.757
ATP6V1D	yellow	-0.728	-0.911
ATP6V1E1	yellow	-0.934	-0.913
ATP6V1G2	yellow	-0.754	-0.969
ATXN10	yellow	-0.867	-0.874
BBS2	yellow	0.898	0.931
BCAN	yellow	0.869	0.668
BCAR3	yellow	0.937	0.774
BCAS2	yellow	-0.802	-0.835
BCKDHB	yellow	0.720	0.765

BCL2L12	yellow	0.888	0.834
BCL6	yellow	0.918	0.812
BEND6	yellow	-0.775	-0.880
BHLHA9	yellow	-0.592	-0.547
BOLA3-AS1	yellow	-0.659	-0.721
BTBD10	yellow	-0.794	-0.907
BUD13	yellow	0.457	0.653
C10orf26	yellow	0.892	0.837
C11orf67	yellow	0.643	0.932
C11orf74	yellow	-0.603	-0.706
C11orf93	yellow	0.828	0.780
C15orf56	yellow	0.587	0.362
C16orf74	yellow	0.381	0.284
C19orf63	yellow	0.768	0.454
C1orf126	yellow	0.543	0.534
C1orf56	yellow	0.937	0.833
C1orf61	yellow	0.851	0.854
C1S	yellow	0.776	0.815
C20orf118	yellow	0.789	0.858
C2orf18	yellow	0.853	0.362
C2orf72	yellow	0.900	0.877
C3orf70	yellow	0.801	0.790
C5orf56	yellow	0.654	0.881
C6orf25	yellow	0.408	0.858
C6orf70	yellow	0.370	0.432
C8orf12	yellow	0.661	0.834
C9orf123	yellow	-0.523	-0.834
C9orf43	yellow	0.735	0.891
C9orf91	yellow	-0.744	-0.899
C9orf95	yellow	-0.759	-0.665
CABLES1	yellow	0.791	0.863
CADM1	yellow	0.684	0.851
CAMKMT	yellow	0.728	0.782
CAMLG	yellow	-0.644	-0.668
CAPN2	yellow	0.887	0.935
CASKIN2	yellow	0.779	0.588
CASP6	yellow	0.755	0.722
CASP8	yellow	0.654	0.702
CAT	yellow	0.832	0.821
CCBP2	yellow	0.895	0.690
CCDC25	yellow	-0.792	-0.654
CCDC8	yellow	0.887	0.778
CCDC80	yellow	0.941	0.562
CCNDBP1	yellow	-0.802	-0.918
CCNJL	yellow	0.605	0.846
CCT4	yellow	-0.711	-0.801
CCZ1	yellow	0.615	0.469

CD72	yellow	0.760	0.843
CD81	yellow	0.744	0.921
CD82	yellow	0.819	0.578
CD83	yellow	-0.806	-0.821
CD99L2	yellow	-0.820	-0.891
CDC16	yellow	0.695	0.583
CDC42EP4	yellow	0.956	0.924
CDCA5	yellow	-0.682	-0.863
CDH20	yellow	0.850	0.558
CDK13	yellow	0.470	0.583
CDKN2AIPNL	yellow	-0.604	-0.866
CDKN2C	yellow	0.908	0.820
CDRT4	yellow	0.313	0.644
CHDH	yellow	0.944	0.716
CHGB	yellow	-0.561	-0.832
CHKA	yellow	0.702	0.531
CHN1	yellow	-0.855	-0.885
CISD1	yellow	-0.910	-0.874
CISD2	yellow	-0.778	-0.726
CKMT2	yellow	0.553	0.632
CLEC3B	yellow	-0.559	-0.272
CLSPN	yellow	-0.462	-0.450
CLTCL1	yellow	0.439	0.359
CLU	yellow	0.652	0.878
CMTM3	yellow	0.607	0.790
CNIH3	yellow	-0.850	-0.839
CNKSR2	yellow	-0.539	-0.911
CNTFR	yellow	0.912	0.820
CNTN6	yellow	-0.794	-0.796
COPS3	yellow	-0.726	-0.844
COX17	yellow	-0.251	-0.656
CPE	yellow	0.814	0.911
CPT1A	yellow	0.699	0.866
CPT2	yellow	0.940	0.891
CREB3L4	yellow	0.778	0.827
CRYL1	yellow	0.827	0.896
CSRP1	yellow	0.858	0.790
CST3	yellow	0.717	0.934
CTA-85E5.10	yellow	0.853	0.732
CTB-109A12.1	yellow	0.677	0.699
CTC-338M12.5	yellow	0.536	0.650
CTD-2201I18.1	yellow	0.581	0.902
CTD-2213F21.2	yellow	0.653	0.603
CTD-2313N18.4	yellow	0.759	0.370
CTD-2514K5.2	yellow	0.841	0.855
CTD-2536I1.1	yellow	-0.675	-0.786
CTF1	yellow	0.907	0.917

CTSH	yellow	0.790	0.863
CTSO	yellow	0.641	0.612
CUBN	yellow	0.745	0.713
CXCR7	yellow	0.782	0.904
CXorf56	yellow	-0.646	-0.662
CYBRD1	yellow	0.825	0.926
CYP11A1	yellow	0.914	0.591
CYP2U1	yellow	0.554	0.346
DACH1	yellow	-0.461	-0.714
DAG1	yellow	0.874	0.708
DAPL1	yellow	-0.724	-0.456
DAZAP1	yellow	0.509	0.367
DBI	yellow	0.727	0.907
DBR1	yellow	0.856	0.678
DCTPP1	yellow	-0.842	-0.862
DDO	yellow	0.909	0.612
DDX39B	yellow	0.683	0.683
DDX60L	yellow	0.157	0.638
DGKH	yellow	-0.748	-0.661
DHTKD1	yellow	0.882	0.952
DICER1-AS1	yellow	0.668	0.771
DLEU7	yellow	-0.758	-0.898
DLGAP2	yellow	-0.457	-0.876
DMRTA1	yellow	0.816	0.762
DNAJB13	yellow	0.644	0.464
DNAJC19	yellow	-0.477	-0.833
DNALI1	yellow	0.763	0.632
DNASE2	yellow	0.809	0.777
DNMBP	yellow	0.737	0.913
DNMT3B	yellow	0.567	0.672
DOCK7	yellow	0.863	0.906
DOK1	yellow	0.714	0.767
DPY19L2P1	yellow	-0.741	-0.673
DPY19L3	yellow	0.788	0.916
DSTN	yellow	-0.844	-0.851
DTNA	yellow	0.898	0.857
DUOX1	yellow	0.727	0.516
DYNLT1	yellow	0.851	0.872
ECI2	yellow	0.759	0.585
EDA	yellow	0.865	0.564
EGLN3	yellow	0.824	0.975
EHMT1	yellow	0.797	0.811
EIF4A2	yellow	-0.859	-0.789
EIF4E	yellow	-0.622	-0.559
EIF4G3	yellow	-0.780	-0.833
ELAC1	yellow	0.598	0.563
ELMOD1	yellow	-0.823	-0.950

EMID1	yellow	0.799	0.854
EMILIN1	yellow	0.742	0.860
EMX2OS	yellow	0.902	0.840
ENDOU	yellow	0.869	0.720
ENO3	yellow	0.646	0.465
ENSA	yellow	-0.603	-0.864
EPB41L1	yellow	-0.881	-0.932
EPB41L5	yellow	0.730	0.902
EPHB1	yellow	0.748	0.308
EPHX1	yellow	0.920	0.914
EPHX2	yellow	0.906	0.592
EPOR	yellow	0.799	0.855
ERBB2	yellow	0.902	0.949
ERC2	yellow	-0.737	-0.507
ERF	yellow	0.734	0.500
ERLIN2	yellow	0.851	0.873
ESYT2	yellow	-0.780	-0.475
EVC	yellow	0.894	0.953
EVPL	yellow	-0.610	-0.421
EWSR1	yellow	0.403	0.473
EXO1	yellow	-0.403	-0.357
EYA2	yellow	0.918	0.911
EZR	yellow	0.917	0.947
FADS2	yellow	0.915	0.851
FAH	yellow	0.787	0.850
FAM108C1	yellow	0.561	0.530
FAM162B	yellow	-0.872	-0.640
FAM167A	yellow	0.922	0.805
FAM181A-AS1	yellow	0.968	0.703
FAM19A3	yellow	-0.513	-0.495
FAM59B	yellow	0.959	0.921
FAM84A	yellow	-0.597	-0.845
FAT1	yellow	0.828	0.873
FBLN1	yellow	0.807	0.887
FBRS	yellow	0.702	0.354
FBXO24	yellow	0.820	0.556
FBXO25	yellow	-0.643	-0.836
FBXO39	yellow	0.535	0.547
FBXO46	yellow	0.816	0.528
FBXO8	yellow	0.942	0.874
FBXO9	yellow	-0.853	-0.940
FBXW8	yellow	0.830	0.795
FCGRT	yellow	0.843	0.758
FER1L6	yellow	-0.527	-0.551
FERMT2	yellow	0.864	0.979
FGF12	yellow	-0.744	-0.875
FGF13	yellow	-0.836	-0.895

FIBIN	yellow	0.903	0.817
FILIP1LP1	yellow	0.626	0.677
FLT3LG	yellow	0.816	0.906
FMO5	yellow	0.815	0.815
FNDC9	yellow	-0.433	-0.631
FNTB	yellow	0.690	0.508
FOLR1	yellow	0.632	0.692
FUBP3	yellow	0.671	0.898
FUT10	yellow	0.874	0.978
FXYD2	yellow	0.439	0.613
FYCO1	yellow	0.760	0.765
FZD1	yellow	0.701	0.836
FZD7	yellow	0.819	0.778
FZD8	yellow	0.827	0.810
GABARAPL1	yellow	-0.938	-0.854
GALM	yellow	0.896	0.678
GALNT11	yellow	-0.871	-0.941
GALNTL5	yellow	-0.723	-0.869
GATM	yellow	0.842	0.838
GCDH	yellow	0.653	0.831
GDPD2	yellow	0.896	0.886
GFOD1	yellow	-0.607	-0.623
GHITM	yellow	-0.809	-0.879
GLI1	yellow	0.826	0.944
GLRA1	yellow	0.736	0.359
GLTPD2	yellow	-0.221	-0.541
GLUD1	yellow	0.915	0.873
GLUD2	yellow	0.971	0.861
GNA12	yellow	0.939	0.920
GNB5	yellow	-0.737	-0.822
GOLIM4	yellow	0.941	0.976
GOT2	yellow	-0.834	-0.904
GPAM	yellow	0.921	0.767
GPM6B	yellow	0.671	0.874
GPR125	yellow	0.911	0.960
GPR137B	yellow	0.832	0.890
GPR143	yellow	0.894	0.918
GPRC5C	yellow	0.834	0.805
GPT	yellow	0.525	0.481
GPT2	yellow	0.947	0.851
GREB1	yellow	0.844	0.377
GRIP2	yellow	-0.649	-0.800
GRM8	yellow	-0.729	-0.795
GRTP1	yellow	0.848	0.901
GSTM2	yellow	0.897	0.804
GTF2H1	yellow	-0.827	-0.784
GUCY2C	yellow	0.647	0.380

HADHA	yellow	0.913	0.903
HADHB	yellow	0.905	0.900
HAUS4	yellow	0.930	0.843
HAUS8	yellow	0.517	0.622
HCCS	yellow	-0.732	-0.842
HDAC1	yellow	0.906	0.810
HEATR5A	yellow	0.664	0.879
HEATR8	yellow	0.594	0.807
HEPACAM	yellow	0.873	0.875
HERPUD2	yellow	0.714	0.926
HES6	yellow	0.610	0.781
HEY2	yellow	0.681	0.741
HFE	yellow	0.711	0.722
HIST1H1C	yellow	0.756	0.835
HIST1H4H	yellow	-0.707	-0.839
HMGCL	yellow	0.717	0.860
HMGCLL1	yellow	-0.858	-0.831
HNRNPH2	yellow	-0.702	-0.679
HNRNPUL1	yellow	0.843	0.701
HPRT1	yellow	-0.874	-0.863
HSD17B14	yellow	0.558	0.895
HSD17B6	yellow	0.913	0.949
HSD17B8	yellow	0.528	0.501
HSDL2	yellow	0.836	0.874
HSPB3	yellow	-0.769	-0.586
HTR3E	yellow	0.701	0.375
HTRA1	yellow	0.895	0.860
HVCN1	yellow	0.848	0.965
IFIT3	yellow	0.634	0.896
IGDCC4	yellow	0.797	0.743
IGSF1	yellow	0.553	0.558
IL17RA	yellow	0.803	0.747
IL17RB	yellow	0.903	0.786
IL17RC	yellow	0.626	0.833
IL17RD	yellow	0.843	0.937
IL33	yellow	0.862	0.945
IMPA2	yellow	0.791	0.904
INHBB	yellow	0.947	0.791
INPP1	yellow	0.645	0.575
INPPL1	yellow	0.958	0.941
INTU	yellow	0.863	0.879
IRF2	yellow	0.850	0.917
IRF6	yellow	-0.567	-0.272
IRF9	yellow	0.874	0.892
IST1	yellow	0.747	0.667
ITGA7	yellow	0.830	0.918
ITGB1BP1	yellow	-0.837	-0.826

ITGB5	yellow	0.943	0.865
ITM2C	yellow	0.897	0.837
IVD	yellow	0.545	0.461
IZUMO4	yellow	0.884	0.957
JARID2	yellow	0.577	0.682
KANK1	yellow	0.787	0.876
KCMF1	yellow	-0.904	-0.910
KCNE1L	yellow	0.868	0.368
KCNN3	yellow	0.823	0.936
KCTD18	yellow	0.673	0.645
KCTD5	yellow	0.873	0.855
KCTD8	yellow	-0.658	-0.560
KDM3B	yellow	0.571	0.443
KIAA0141	yellow	0.519	0.677
KIAA0391	yellow	0.538	0.701
KIAA1797	yellow	-0.778	-0.852
KIF7	yellow	0.567	0.847
KIRREL2	yellow	-0.398	-0.682
KLF15	yellow	0.845	0.971
KLRD1	yellow	0.538	0.450
KREMEN1	yellow	0.605	0.791
KRT5	yellow	-0.545	-0.722
LAP3	yellow	0.675	0.868
LAPTM4A	yellow	0.829	0.943
LCN12	yellow	0.690	0.954
LCNL1	yellow	0.718	0.722
LDHA	yellow	-0.793	-0.921
LIMK2	yellow	0.898	0.855
LINC00092	yellow	0.832	0.828
LINC00299	yellow	0.783	0.833
LINC00460	yellow	-0.506	-0.830
LOXL3	yellow	0.777	0.763
LPIN1	yellow	0.566	0.855
LPIN3	yellow	0.687	0.777
LRP5	yellow	0.853	0.522
LRRC16A	yellow	0.833	0.898
LRRC28	yellow	-0.757	-0.657
LRRC3B	yellow	0.774	0.871
LRRC42	yellow	0.687	0.595
LRRC8A	yellow	0.820	0.940
LY86-AS1	yellow	-0.549	-0.930
LYPD1	yellow	0.608	0.673
MACF1	yellow	0.863	0.865
MAGED1	yellow	-0.725	-0.698
MAOA	yellow	0.777	0.878
MAOB	yellow	0.843	0.389
MAP1B	yellow	-0.858	-0.826

MAP2	yellow	-0.765	-0.909
MAP2K4	yellow	-0.886	-0.885
MAPK4	yellow	0.731	0.687
MAPK9	yellow	-0.887	-0.882
MAPKAPK2	yellow	0.912	0.900
MAPKAPK3	yellow	0.902	0.973
MAVS	yellow	0.832	0.849
MCC	yellow	0.808	0.971
MCCC1-AS1	yellow	0.949	0.709
MCMBP	yellow	0.737	0.809
MCOLN2	yellow	0.576	0.496
MEAF6	yellow	-0.842	-0.874
MED26	yellow	0.733	0.745
MICA	yellow	0.595	0.886
MICALL2	yellow	0.758	0.835
MID1	yellow	0.929	0.905
MIDN	yellow	0.743	0.718
MIR181A2HG	yellow	0.510	0.727
MLLT11	yellow	-0.734	-0.897
MMD2	yellow	0.771	0.881
MMP19	yellow	0.659	0.751
MMP28	yellow	0.901	0.855
MOAP1	yellow	-0.884	-0.852
MOB3C	yellow	0.731	0.894
MORC4	yellow	0.768	0.826
MOV10	yellow	0.893	0.863
MPPED2	yellow	-0.864	-0.776
MPST	yellow	0.892	0.858
MR1	yellow	0.699	0.866
MREG	yellow	-0.707	-0.707
MRFAP1	yellow	-0.551	-0.725
MRO	yellow	0.796	0.688
MRPL46	yellow	-0.721	-0.797
MRVI1	yellow	0.886	0.929
MSH5	yellow	0.652	0.688
MSI1	yellow	0.822	0.910
MSI2	yellow	0.891	0.934
MSN	yellow	0.904	0.931
MT1F	yellow	0.697	0.924
MTA2	yellow	0.897	0.801
MTHFS	yellow	0.557	0.515
MTHFSD	yellow	0.809	0.630
MYBPC1	yellow	0.807	0.634
MYH3	yellow	0.486	0.850
MYLK	yellow	0.836	0.512
MYO10	yellow	0.923	0.867
MYOM1	yellow	0.764	0.516

MYOZ2	yellow	0.499	0.572
NACC2	yellow	0.935	0.884
NAPSA	yellow	0.769	0.451
NAV2	yellow	0.488	0.914
NBPF10	yellow	0.817	0.949
NCAN	yellow	0.801	0.863
NDP	yellow	0.884	0.495
NDRG2	yellow	0.826	0.787
NDRG3	yellow	-0.945	-0.865
NDRG4	yellow	-0.796	-0.855
NDUFA4	yellow	-0.706	-0.833
NDUFC2	yellow	-0.733	-0.927
NECAP1	yellow	-0.809	-0.860
NECAP2	yellow	0.899	0.930
NEDD4L	yellow	-0.589	-0.926
NEFL	yellow	-0.872	-0.874
NEIL2	yellow	-0.967	-0.760
NEK6	yellow	0.945	0.859
NFATC4	yellow	0.916	0.968
NHP2	yellow	-0.468	-0.734
NHSL1	yellow	0.939	0.885
NID1	yellow	0.699	0.926
NINL	yellow	0.700	0.701
NKAIN4	yellow	0.875	0.522
NOD1	yellow	0.694	0.647
NOVA1	yellow	-0.650	-0.758
NPAS3	yellow	0.939	0.966
NPFFR1	yellow	0.912	0.624
NPTX2	yellow	-0.534	-0.684
NQO1	yellow	0.931	0.847
NR2E1	yellow	0.850	0.920
NR6A1	yellow	0.729	0.864
NT5C2	yellow	0.793	0.691
NT5E	yellow	0.849	0.537
NTRK2	yellow	0.854	0.940
NTSR2	yellow	0.933	0.941
NUDT10	yellow	-0.841	-0.926
NUDT11	yellow	-0.825	-0.916
OAF	yellow	0.750	0.904
OBFC1	yellow	-0.673	-0.884
OLA1	yellow	-0.855	-0.867
OLFM2	yellow	0.733	0.837
OPLAH	yellow	0.896	0.882
OPTN	yellow	-0.930	-0.930
ORAI3	yellow	0.894	0.918
OSGIN1	yellow	0.800	0.841
PABPC1L2A	yellow	-0.710	-0.854

PAFAH2	yellow	0.741	0.742
PALLD	yellow	0.863	0.877
PAMR1	yellow	0.906	0.943
PAQR8	yellow	0.736	0.639
PARD3B	yellow	0.862	0.931
PARP2	yellow	-0.686	-0.708
PART1	yellow	-0.834	-0.937
PAX6	yellow	0.876	0.819
PBXIP1	yellow	0.955	0.955
PCBP1-AS1	yellow	0.795	0.667
PCDHB3	yellow	-0.611	-0.619
PCDHB4	yellow	0.716	0.643
PCDHB5	yellow	0.733	0.595
PCDHB7	yellow	0.338	0.858
PCDHGA11	yellow	0.775	0.543
PCDHGA8	yellow	0.418	0.552
PCDHGB1	yellow	0.795	0.623
PCDHGB2	yellow	0.775	0.745
PCDHGB7	yellow	0.847	0.743
PCLO	yellow	-0.820	-0.495
PCSK2	yellow	-0.878	-0.892
PCTP	yellow	0.503	0.895
PDE4A	yellow	-0.485	-0.823
PDGFRL	yellow	0.757	0.587
PDLIM3	yellow	0.929	0.928
PDLIM5	yellow	0.856	0.956
PEX11A	yellow	0.917	0.824
PEX11G	yellow	0.424	0.607
PEX26	yellow	-0.807	-0.912
PFN2	yellow	-0.891	-0.872
PGAM1	yellow	-0.852	-0.895
PGK1	yellow	-0.811	-0.864
PGM1	yellow	0.821	0.886
PHEX	yellow	0.818	0.687
PHF19	yellow	0.821	0.749
PHF21B	yellow	0.837	0.914
PHGDH	yellow	0.934	0.931
PHKA1	yellow	0.903	0.921
PHKG1	yellow	0.891	0.977
PHYHD1	yellow	0.892	0.922
PIAS4	yellow	0.707	0.517
PIEZO1	yellow	0.842	0.821
PIGV	yellow	0.783	0.769
PINK1	yellow	-0.822	-0.709
PIPOX	yellow	0.902	0.844
PITHD1	yellow	-0.688	-0.871
PITPNA	yellow	-0.743	-0.843

PITPNC1	yellow	0.827	0.925
PLCB3	yellow	0.904	0.945
PLCB4	yellow	-0.703	-0.941
PLCD1	yellow	0.940	0.951
PLD2	yellow	0.884	0.957
PLEKHA4	yellow	0.744	0.865
PLEKHA7	yellow	0.951	0.811
PLEKHO2	yellow	0.894	0.944
PLIN1	yellow	0.854	0.697
PLIN4	yellow	0.960	0.751
PLSCR4	yellow	0.948	0.919
PMS2P5	yellow	-0.946	-0.756
PNMA1	yellow	-0.803	-0.818
POLE3	yellow	-0.678	-0.779
PON2	yellow	0.866	0.978
POU2F1	yellow	0.960	0.789
POU3F2	yellow	0.685	0.425
POU3F3	yellow	0.734	0.237
POU3F4	yellow	0.779	0.425
POU4F1-AS1	yellow	0.858	0.830
PPARA	yellow	0.920	0.965
PPEF1	yellow	-0.808	-0.853
PPIC	yellow	0.905	0.850
PPIL1	yellow	-0.747	-0.928
PPP1R32	yellow	0.719	0.836
PPP1R3D	yellow	0.855	0.967
PPP1R9A	yellow	-0.758	-0.760
PPP2CA	yellow	-0.755	-0.895
PRDM16	yellow	0.984	0.856
PRDX6	yellow	0.962	0.871
PRELP	yellow	0.901	0.780
PRKD1	yellow	0.486	0.806
PRPF38A	yellow	0.653	0.911
PRTFDC1	yellow	0.799	0.818
PSAT1	yellow	0.808	0.860
PSD2	yellow	0.955	0.937
PSMD1	yellow	-0.873	-0.573
PTCH1	yellow	0.875	0.298
PTGDS	yellow	0.862	0.873
PTK6	yellow	0.713	0.534
PTPN13	yellow	0.626	0.839
PTPN9	yellow	0.628	0.653
PTPRVP	yellow	0.643	0.461
PVRL2	yellow	0.513	0.844
PYGM	yellow	0.842	0.873
RAB11FIP5	yellow	-0.864	-0.863
RAB34	yellow	0.951	0.988

RALB	yellow	-0.728	-0.868
RANBP9	yellow	-0.882	-0.727
RARRES2	yellow	0.670	0.600
RARRES3	yellow	0.897	0.773
RAVER1	yellow	0.900	0.812
RBM28	yellow	0.642	0.807
RBM38	yellow	0.792	0.837
RBM42	yellow	0.799	0.496
RDH10	yellow	0.863	0.930
RDH16	yellow	0.512	0.371
RELA	yellow	0.873	0.871
RETSAT	yellow	0.737	0.597
RFPL1-AS1	yellow	-0.702	-0.612
RFX2	yellow	0.880	0.876
RGMA	yellow	0.765	0.884
RGN	yellow	0.561	0.888
RHOC	yellow	0.862	0.907
RHOJ	yellow	0.807	0.975
RIBC1	yellow	0.734	0.841
RIT2	yellow	-0.568	-0.830
RNF175	yellow	-0.737	-0.854
RNF43	yellow	0.784	0.449
RNF6	yellow	-0.733	-0.797
RNMT	yellow	-0.846	-0.853
ROPN1L	yellow	-0.626	-0.334
RP11-103C16.2	yellow	0.751	0.571
RP11-113K21.4	yellow	0.678	0.817
RP11-1334A24.4	yellow	0.756	0.451
RP11-17L5.4	yellow	-0.687	-0.930
RP11-224O19.2	yellow	0.780	0.869
RP11-244H3.1	yellow	0.502	0.441
RP11-274K13.2	yellow	0.735	0.586
RP11-274N19.2	yellow	0.852	0.925
RP11-291L22.3	yellow	0.545	0.626
RP11-295P9.3	yellow	0.898	0.899
RP11-296L22.8	yellow	0.735	0.386
RP11-298I3.1	yellow	0.623	0.879
RP11-315O6.1	yellow	0.601	0.615
RP11-323F5.2	yellow	0.485	0.562
RP11-325F22.4	yellow	0.641	0.554
RP11-330M2.7	yellow	0.794	0.803
RP11-347C12.1	yellow	0.668	0.481
RP11-358M11.2	yellow	0.540	0.742
RP11-364P22.1	yellow	-0.550	-0.562
RP11-366K18.3	yellow	0.788	0.473
RP11-367J11.2	yellow	0.918	0.575
RP11-367J11.3	yellow	0.645	0.526

RP11-368J21.3	yellow	-0.656	-0.609
RP11-394B2.4	yellow	0.849	0.826
RP11-397D12.6	yellow	0.600	0.542
RP11-3L21.2	yellow	0.359	0.705
RP11-429J17.2	yellow	0.397	0.442
RP11-453F18__B	yellow	0.809	0.586
RP11-518D3.1	yellow	0.796	0.886
RP11-540A21.3	yellow	-0.524	-0.279
RP11-569G13.2	yellow	0.683	0.674
RP11-579E24.1	yellow	-0.498	-0.437
RP11-598F7.5	yellow	-0.459	-0.624
RP11-65D13.1	yellow	0.754	0.741
RP11-678P16.1	yellow	0.507	0.859
RP11-69L16.4	yellow	0.561	0.459
RP11-727A23.10	yellow	0.921	0.677
RP11-807H7.1	yellow	-0.868	-0.547
RP11-80H5.4	yellow	0.399	0.477
RP11-843P14.2	yellow	0.660	0.518
RP1-20N2.6	yellow	0.815	0.590
RP13-137A17.6	yellow	-0.409	-0.732
RP13-895J2.3	yellow	-0.575	-0.517
RP13-941N14.1	yellow	0.590	0.377
RP1-5O6.5	yellow	0.537	0.410
RP1-5O6.6	yellow	0.822	0.709
RP4-673D20.3	yellow	0.884	0.974
RP4-717I23.3	yellow	0.716	0.893
RP4-740C4.5	yellow	-0.622	-0.704
RP5-1021I20.5	yellow	0.688	0.841
RP5-907D15.2	yellow	0.693	0.290
RPL15	yellow	-0.731	-0.757
RPP14	yellow	0.704	0.684
RRP1B	yellow	0.562	0.409
RSPH3	yellow	-0.557	-0.553
RTN4	yellow	-0.812	-0.932
RXRA	yellow	0.773	0.469
RXRG	yellow	0.511	0.489
RYR2	yellow	-0.906	-0.912
RYR3	yellow	0.955	0.959
S100A1	yellow	0.775	0.913
SALL4	yellow	0.840	0.441
SBF2	yellow	0.938	0.830
SCAF4	yellow	0.734	0.610
SCAMP2	yellow	0.872	0.858
SCARA3	yellow	0.884	0.932
SCARNA17	yellow	0.833	0.617
SCLY	yellow	0.520	0.545
SCN2B	yellow	-0.854	-0.910

SDC2	yellow	0.838	0.945
SDC3	yellow	0.801	0.684
SDR16C5	yellow	-0.759	-0.924
SEC61A1	yellow	0.779	0.825
SELENBP1	yellow	0.926	0.929
SEMA4B	yellow	0.749	0.966
SEPN1	yellow	0.856	0.792
SERPINB6	yellow	0.692	0.758
SFXN5	yellow	0.820	0.874
SGCD	yellow	0.738	0.837
SGPL1	yellow	0.914	0.880
SH3D21	yellow	-0.653	-0.683
SIX5	yellow	0.894	0.849
SKP1	yellow	-0.751	-0.907
SLC12A4	yellow	0.878	0.905
SLC1A4	yellow	0.792	0.705
SLC22A5	yellow	0.892	0.773
SLC22A6	yellow	0.512	0.673
SLC25A14	yellow	-0.681	-0.815
SLC25A18	yellow	0.888	0.903
SLC25A20	yellow	0.966	0.923
SLC25A26	yellow	-0.780	-0.619
SLC25A27	yellow	-0.677	-0.891
SLC26A4	yellow	-0.682	-0.850
SLC27A1	yellow	0.904	0.764
SLC35F3	yellow	-0.699	-0.907
SLC35G1	yellow	-0.803	-0.330
SLC39A1	yellow	0.891	0.850
SLC3A2	yellow	0.747	0.889
SLC40A1	yellow	0.459	0.669
SLC41A1	yellow	0.953	0.943
SLC44A2	yellow	0.920	0.932
SLC46A1	yellow	0.941	0.761
SLC6A11	yellow	0.820	0.957
SLC9A3R1	yellow	0.954	0.944
SLC9B2	yellow	-0.833	-0.870
SMAD1	yellow	0.700	0.737
SMARCD1	yellow	0.535	0.314
SMCR5	yellow	0.393	0.612
SMOC1	yellow	0.635	0.378
SMOX	yellow	0.890	0.953
SMS	yellow	-0.671	-0.413
SMYD2	yellow	-0.875	-0.760
SNCAIP	yellow	0.553	0.557
SNORA55	yellow	0.812	0.535
SNORD104	yellow	0.437	0.628
SNTA1	yellow	0.768	0.770

SNX10	yellow	-0.896	-0.863
SNX29P2	yellow	0.561	0.358
SNX33	yellow	0.921	0.879
SOD3	yellow	0.831	0.881
SORBS3	yellow	0.835	0.896
SORCS2	yellow	0.806	0.656
SOX2	yellow	0.879	0.956
SOX21	yellow	0.891	0.905
SPATA1	yellow	0.753	0.646
SPATA25	yellow	0.929	0.568
SPATC1	yellow	0.666	0.771
SPON2	yellow	-0.587	-0.659
SPRYD7	yellow	-0.620	-0.893
SRD5A1	yellow	-0.861	-0.922
SRGAP1	yellow	0.877	0.965
SRPX	yellow	0.790	0.885
SSC5D	yellow	0.788	0.690
SSPN	yellow	0.862	0.867
ST5	yellow	0.760	0.781
STAT3	yellow	0.821	0.836
STBD1	yellow	-0.827	-0.817
STK17B	yellow	0.865	0.944
STK24	yellow	-0.704	-0.809
STK33	yellow	0.873	0.920
STON2	yellow	0.939	0.907
STOX1	yellow	0.832	0.864
STRBP	yellow	-0.714	-0.770
SULF2	yellow	-0.822	-0.389
SULT1C4	yellow	0.880	0.870
SULT4A1	yellow	-0.910	-0.898
SUMO3	yellow	-0.892	-0.932
SUV420H2	yellow	0.889	0.581
SYCE2	yellow	0.795	0.901
SYDE1	yellow	0.893	0.840
SYNPO2L	yellow	0.711	0.662
SYT1	yellow	-0.979	-0.870
TAF4	yellow	0.748	0.551
TAF9	yellow	-0.699	-0.617
TAS1R1	yellow	0.808	0.683
TASP1	yellow	-0.919	-0.774
TBC1D10A	yellow	0.493	0.908
TBC1D2B	yellow	0.755	0.664
TBL1X	yellow	0.897	0.957
TCEA3	yellow	0.708	0.826
TCF3	yellow	0.761	0.798
TCF7L1	yellow	0.900	0.906
TCTN1	yellow	0.530	0.818

TDRKH	yellow	-0.653	-0.872
TEP1	yellow	0.785	0.864
TEX261	yellow	0.675	0.603
TGFBR3	yellow	0.856	0.922
TGIF1	yellow	0.863	0.942
THBS4	yellow	0.679	0.735
THRB	yellow	-0.605	-0.873
TIMM17A	yellow	-0.829	-0.817
TM9SF1	yellow	0.602	0.651
TMBIM6	yellow	0.812	0.883
TMCO4	yellow	0.954	0.748
TMEM102	yellow	0.820	0.882
TMEM134	yellow	0.683	0.715
TMEM138	yellow	0.702	0.886
TMEM159	yellow	-0.670	-0.758
TMEM164	yellow	0.635	0.805
TMEM176A	yellow	0.901	0.917
TMEM177	yellow	-0.438	-0.728
TMEM183A	yellow	-0.801	-0.872
TMEM41A	yellow	0.507	0.693
TMEM47	yellow	0.811	0.903
TMEM51	yellow	0.822	0.806
TMEM85	yellow	-0.477	-0.870
TMPRSS5	yellow	0.815	0.855
TNFSF13	yellow	0.918	0.896
TOB1	yellow	0.865	0.926
TOB2	yellow	0.847	0.860
TP53	yellow	0.854	0.944
TP53BP2	yellow	0.927	0.973
TPCN1	yellow	0.926	0.748
TPD52L1	yellow	0.929	0.861
TPP1	yellow	0.868	0.962
TPTE2P1	yellow	-0.524	-0.455
TRA2A	yellow	0.670	0.826
TRIB1	yellow	0.673	0.722
TRIM44	yellow	-0.837	-0.565
TRIM47	yellow	0.850	0.849
TRIP10	yellow	0.701	0.895
TRIP6	yellow	0.880	0.970
TRPS1	yellow	0.818	0.963
TRPV1	yellow	0.653	0.650
TSC22D4	yellow	0.836	0.944
TSFM	yellow	-0.870	-0.910
TST	yellow	0.917	0.890
TTC17	yellow	0.745	0.832
TTC28	yellow	0.739	0.872
TTC31	yellow	0.871	0.698

TTC36	yellow	0.522	0.475
TTC5	yellow	-0.764	-0.670
TTLL4	yellow	0.951	0.891
TTYH1	yellow	0.901	0.854
TUBB2B	yellow	0.835	0.925
TULP3	yellow	0.840	0.931
TUSC3	yellow	-0.817	-0.910
TYRP1	yellow	-0.806	-0.649
TYW3	yellow	-0.614	-0.512
UBAC2-AS1	yellow	0.575	0.438
UFD1L	yellow	0.831	0.434
UNC13C	yellow	-0.883	-0.514
UNG	yellow	0.848	0.896
UOX	yellow	-0.608	-0.421
UQCRFS1	yellow	-0.730	-0.824
VANGL2	yellow	0.705	0.742
VPS29	yellow	-0.696	-0.673
VPS36	yellow	-0.818	-0.824
VWA3B	yellow	0.744	0.594
VWC2	yellow	-0.606	-0.824
WASF2	yellow	0.781	0.857
WDFY3-AS2	yellow	0.815	0.772
WDR45L	yellow	0.743	0.651
WDR47	yellow	-0.779	-0.849
WLS	yellow	0.921	0.859
WNT7B	yellow	0.740	0.788
WNT8B	yellow	0.562	0.562
WWOX	yellow	0.766	0.754
XKR8	yellow	0.942	0.685
XKRX	yellow	0.776	0.398
XRCC6	yellow	-0.760	-0.660
YARS	yellow	-0.828	-0.809
YIPF1	yellow	-0.647	-0.758
YRDC	yellow	-0.930	-0.859
ZBTB20	yellow	0.879	0.946
ZBTB3	yellow	0.889	0.668
ZC3H4	yellow	0.712	0.413
ZEB1-AS1	yellow	0.541	0.796
ZFAND3	yellow	0.872	0.862
ZFHX4	yellow	0.866	0.806
ZHX2	yellow	0.832	0.743
ZHX3	yellow	0.909	0.927
ZIC4	yellow	0.712	0.794
ZNF114	yellow	0.823	0.924
ZNF155	yellow	0.571	0.794
ZNF177	yellow	0.744	0.759
ZNF204P	yellow	-0.712	-0.894

ZNF211	yellow	0.812	0.902
ZNF274	yellow	0.741	0.841
ZNF329	yellow	-0.821	-0.821
ZNF350	yellow	0.685	0.723
ZNF395	yellow	0.801	0.820
ZNF416	yellow	0.830	0.355
ZNF433	yellow	0.502	0.821
ZNF438	yellow	0.931	0.976
ZNF443	yellow	0.542	0.806
ZNF462	yellow	0.812	0.764
ZNF516	yellow	0.856	0.948
ZNF546	yellow	0.889	0.856
ZNF572	yellow	0.598	0.823
ZNF577	yellow	0.755	0.764
ZNF608	yellow	0.688	0.680
ZNF613	yellow	0.765	0.302
ZNF629	yellow	0.627	0.397
ZNF710	yellow	0.773	0.268
ZNF805	yellow	0.792	0.899
ZNF815	yellow	-0.545	-0.736
ZNF844	yellow	0.804	0.672
ZNF847P	yellow	0.894	0.585
ZNRF3-AS1	yellow	0.614	0.892
ZSCAN2	yellow	0.851	0.570

Supplementary Table S4: Effect of biological and technical co-variates on module eigengene

Module	Biological covariates		Technical covariates			
	Smoking	Cause of death	RIN		Sequencing depth	
	NISC1-2	NISC1-2	NISC1	NISC2	NISC1	NISC2
	p-value	p-value	p-value	p-value	p-value	p-value
darkturquoise	0.77	0.02	0.97	0.12	0.56	0.35
green	0.44	0.61	0.35	0.33	0.56	0.11
darkorange	0.79	0.78	0.44	0.07	1.00	0.03
turquoise	0.73	0.08	0.43	0.09	0.29	0.26
red	0.97	0.83	0.09	0.14	0.47	0.03
salmon	0.32	0.31	0.18	0.18	0.53	0.41
paleturquoise	0.10	0.21	0.24	0.86	0.51	0.32
blue	0.99	0.68	0.21	0.94	0.34	0.14
darkgreen	0.83	0.42	0.39	0.76	0.28	0.63
midnightblue	0.12	0.70	0.18	0.64	0.22	0.91
darkred	0.49	0.04	0.30	0.18	0.25	0.57
darkolivegreen	0.77	0.11	0.42	0.03	0.98	0.32
white	0.32	0.81	0.31	0.32	0.46	0.04
saddlebrown	0.86	0.41	0.12	0.34	0.14	0.11
lightcyan	0.16	0.64	0.20	0.42	0.74	0.23
royalblue	0.78	0.67	0.51	0.03	0.45	0.11
skyblue	0.29	0.79	0.97	0.05	0.84	0.04
lightyellow	0.61	0.03	0.56	0.05	0.62	0.04
darkgrey	0.79	0.64	0.36	0.07	0.40	0.04
yellow	0.52	0.21	0.99	0.27	0.71	0.29
purple	0.48	0.41	0.58	0.08	0.77	0.10

None of the p-values were significant after multiple testing correction

Supplementary Table S5: GWAS enrichment results from MAGENTA (Segre et al., 2010)

DB	GS	ORIG_GS_SIZE	EFF_GS_SIZE	#_GENES_ABS_LIST	#_GENES_WO_SCORE	#_GENES_REM_PROXIM	MED_GENE_SIZE_KB	MEAN_GENE_SIZE_KB	NOMINAL_GSEA_PVAL_75PERC_CUTOFF	FDR_75PERC_CUTOFF	EXP_#_GENES_ABOVE_75PERC_CUTOFF	OBS_#_GENES_ABOVE_75PERC_CUTOFF
RNAseqBackgroundGenes_db	blue	1383	1146	18	51	168	20	55	0.03	0.19	287	308
RNAseqBackgroundGenes_db	darkgreen	167	157	1	5	4	36	78	0.12	0.51	39	46
RNAseqBackgroundGenes_db	darkgrey	126	112	9	4	1	42	90	0.84	0.94	28	24
RNAseqBackgroundGenes_db	darkolivegreen	57	47	3	7	0	19	55	0.65	0.99	12	11
RNAseqBackgroundGenes_db	darkorange	126	117	3	5	1	35	57	0.23	0.49	29	33
RNAseqBackgroundGenes_db	darkred	162	149	2	5	6	17	32	0.40	0.81	37	39
RNAseqBackgroundGenes_db	darkturquoise	143	130	4	9	0	22	56	0.20	0.58	33	37
RNAseqBackgroundGenes_db	green	787	721	17	26	23	45	112	0.03	0.28	180	200
RNAseqBackgroundGenes_db	lightcyan	225	214	1	7	3	25	48	0.21	0.54	54	59
RNAseqBackgroundGenes_db	lightyellow	175	159	6	10	0	40	70	0.00	0.06	40	55
RNAseqBackgroundGenes_db	midnightblue	258	245	2	5	6	24	48	0.64	0.95	61	59
RNAseqBackgroundGenes_db	paleturquoise	93	80	0	8	5	26	47	0.18	0.48	20	24
RNAseqBackgroundGenes_db	purple	363	331	9	17	6	41	107	0.09	0.57	83	93
RNAseqBackgroundGenes_db	red	775	681	13	24	57	28	54	0.03	0.14	170	189
RNAseqBackgroundGenes_db	royalblue	144	129	4	10	1	27	59	0.63	0.73	32	31
RNAseqBackgroundGenes_db	saddlebrown	109	100	3	3	3	22	48	0.45	0.68	25	26
RNAseqBackgroundGenes_db	salmon	244	227	5	11	1	33	75	0.18	0.64	57	63
RNAseqBackgroundGenes_db	skyblue	113	106	5	2	0	39	85	0.48	0.68	27	27
RNAseqBackgroundGenes_db	white	116	111	0	2	3	29	71	0.92	0.95	28	22
RNAseqBackgroundGenes_db	yellow	839	730	11	46	52	32	79	0.03	0.56	183	202

Supplementary Table S6: Functional enrichment of co-expressed modules in bipolar disorder

Category	Module	kME (NISC1/NISC2)	Term	Count	Genes	Fold Enrich	PValue	Benjamini
GWAs-enriched	green	+/+	GO:0014069~postsynaptic density	11	LZTS1, GRI	4.6	1.09E-04	3.30E-03
	green	+/+	GO:0045211~postsynaptic membrane	16	LZTS1, DLG	3.9	1.27E-05	4.83E-04
	green	+/+	GO:0045202~synapse	35	CDK5R1, LZ	3.1	5.61E-09	8.49E-07
	green	+/+	GO:0030425~dendrite	15	CDK5R1, A	2.8	8.05E-04	2.01E-02
	green	+/+	GO:0022803~passive transmembrane transp	29	KCNC3, GA	2.8	1.84E-06	4.94E-04
	green	+/+	GO:0005261~cation channel activity	19	KCNC3, SC	2.6	3.87E-04	1.87E-02
	green	+/+	GO:0007267~cell-cell signaling	32	GABRB3, G	2.5	4.40E-06	7.33E-03
	green	+/+	GO:0007186~G-protein coupled receptor pro	29	GNAZ, GPR	2.2	1.23E-04	4.02E-02
	green	+/+	GO:0006811~ion transport	42	SLC8A3, KC	2.1	5.90E-06	4.92E-03
	green	+/+	GO:0004672~protein kinase activity	36	CDK5R1, N	2.1	6.49E-05	3.86E-03
	green	+/+	GO:0042995~cell projection	37	GPRIN1, CL	1.7	1.90E-03	3.77E-02
	green	+/+	GO:0044459~plasma membrane part	95	CADM3, LZ	1.6	2.66E-06	1.34E-04
	green	+/+	GO:0031224~intrinsic to membrane	182	GPRIN1, SL	1.3	3.68E-07	2.79E-05
	red	-/-	GO:0006396~RNA processing	23	TXNL4B, EX	2.9	9.68E-06	1.02E-02
	red	+/+	GO:0017076~purine nucleotide binding	91	ABCF3, AB	1.5	9.89E-05	8.92E-03
	salmon	Neg	GO:0045449~regulation of transcription	28	CARHSP1,	2.3	1.31E-05	9.09E-03
Not GWAS-enriched	blue	+/+	GO:0003735~structural constituent of riboso	25	RPL19, MR	2.8	9.97E-06	8.14E-03
	darkolivegr	-/-	GO:0045449~regulation of transcription	8	ZNF519, CN	3.6	9.45E-04	2.18E-02
	darkolivegr	-/-	GO:0008270~zinc ion binding	7	ZNF519, ZN	3.2	6.38E-03	4.99E-02
	darkolivegr	+/+	GO:0033279~ribosomal subunit	4	RPL14, RPL	16.5	1.41E-03	4.06E-02
	darkred	+/+	GO:0044445~cytosolic part	7	BLOC1S3, F	7.7	2.53E-04	1.31E-02
	darkred	+/+	GO:0030529~ribonucleoprotein complex	12	ABCF1, NU	3.8	2.22E-04	1.72E-02
	paleturquo	+/+	GO:0002684~positive regulation of immune s	11	LAT2, PLCG	17.0	5.11E-10	1.36E-07
	paleturquo	+/+	GO:0045321~leukocyte activation	13	GPR183, TC	16.4	9.17E-12	4.88E-09
	paleturquo	+/+	GO:0001817~regulation of cytokine producti	7	PYCARD, C	12.9	1.34E-05	6.48E-04
	paleturquo	+/+	GO:0002520~immune system development	10	GPR183, H	10.1	4.08E-07	3.62E-05
	paleturquo	+/+	GO:0006952~defense response	12	TNFAIP8L2,	8.0	1.58E-07	1.69E-05
	paleturquo	+/+	GO:0009611~response to wounding	10	CIITA, PTPN	6.5	1.56E-05	7.24E-04
	paleturquo	+/+	GO:0009967~positive regulation of signal tra	7	TRIM38, HI	6.4	6.65E-04	2.12E-02
	paleturquo	+/+	GO:0010033~response to organic substance	11	CIITA, KCN,	4.0	2.81E-04	1.03E-02
	royalblue	-/-	GO:0043167~ion binding	22	ZNF398, ZN	2.1	5.66E-05	6.66E-03
	turquoise	+/+	GO:0016879~ligase activity, forming carbon-	45	ADSS, HEC	2.0	6.99E-06	3.73E-03
	turquoise	+/+	GO:0044265~cellular macromolecule catabol	116	PPP2R5C, E	1.7	1.22E-09	4.32E-07
	turquoise	+/+	GO:0009057~macromolecule catabolic proce	120	PPP2R5C, E	1.7	3.00E-09	9.46E-07
	turquoise	+/+	GO:0008104~protein localization	139	ALS2, RAB3	1.7	1.46E-10	8.29E-08
	turquoise	+/+	GO:0006508~proteolysis	132	PPP2R5C, E	1.6	1.39E-07	3.59E-05
	turquoise	+/+	GO:0016192~vesicle-mediated transport	80	ALS2, ATL2	1.5	7.96E-05	1.60E-02
	turquoise	+/+	GO:0046907~intracellular transport	93	ALS2, GRPE	1.5	3.62E-05	7.86E-03
	yellow	+/+	GO:0046395~carboxylic acid catabolic proces	14	ACOX2, AL	3.7	8.19E-05	2.66E-02
	yellow	+/+	GO:0016042~lipid catabolic process	17	ACOX2, SG	3.3	5.02E-05	2.29E-02
	yellow	+/+	GO:0031406~carboxylic acid binding	16	ACOX2, AL	3.1	1.90E-04	3.33E-02
	yellow	+/+	GO:0006631~fatty acid metabolic process	20	ACOX2, AC	3.0	3.56E-05	4.02E-02
	yellow	+/+	GO:0009055~electron carrier activity	19	ACOX2, CY	2.5	6.10E-04	4.70E-02
	yellow	+/+	GO:0045892~negative regulation of transcrip	29	PPARA, SO.	2.3	4.74E-05	2.70E-02
	yellow	+/+	GO:0055114~oxidation reduction	46	CYP2U1, AC	2.0	7.31E-06	1.67E-02

Supplementary Table S7: Overlap between RNA-seq co-expression modules and Chen et al (2013a) microarray co-expression modules

Bipolar Disorder Networks (RNA-seq)		Bipolar Disorder Networks (Chen et al., Microarray)			
Module Color	N genes	Chen et al (2013a) module	Overlap p-value	Corrected p-value	Gene overlap (%)
black	777	yellow	<1.0E-16	<1.0E-16	25%
blue	1523	turquoise	8.44E-08	6.41E-05	30%
brown	1012	blue	3.72E-09	2.82E-06	28%
cyan	286	brown	1.62E-03	ns	21%
darkgreen	175	green	2.96E-03	ns	13%
darkgrey	166	black	2.10E-02	ns	7%
darkolivegreen	74	green	4.71E-03	ns	17%
darkorange	141	black	3.46E-02	ns	7%
darkred	179	turquoise	5.69E-04	ns	35%
darkturquoise	166	blue	5.39E-05	4.09E-02	34%
green	908	magenta	<1.0E-16	<1.0E-16	8%
greenyellow	394	brown	3.91E-04	ns	21%
grey60	212	blue	3.67E-09	2.78E-06	39%
lightcyan	254	blue	3.19E-07	2.42E-04	35%
lightgreen	211	black	7.80E-03	ns	7%
lightyellow	209	yellow	<1.0E-16	<1.0E-16	30%
magenta	519	red	1.92E-14	1.46E-11	16%
midnightblue	282	red	1.59E-05	1.20E-02	13%
orange	150	turquoise	2.75E-05	2.09E-02	39%
paleturquoise	100	cyan	<1.0E-16	<1.0E-16	21%
pink	559	yellow	<1.0E-16	<1.0E-16	44%
purple	442	pink	<1.0E-16	<1.0E-16	14%
red	847	red	2.22E-05	1.68E-02	10%
royalblue	179	green	2.97E-02	ns	11%
saddlebrown	133	turquoise	2.89E-04	ns	39%
salmon	293	brown	4.23E-08	3.21E-05	28%
skyblue	135	yellow	6.47E-03	ns	15%
steelblue	101	red	7.29E-03	ns	12%
tan	338	red	3.48E-11	2.64E-08	17%
turquoise	2766	blue	<1.0E-16	<1.0E-16	32%
violet	99	brown	4.78E-02	ns	21%
white	141	yellow	3.77E-04	ns	17%
yellow	959	pink	<1.0E-16	<1.0E-16	17%

Supplementary Table S8: Following is list of GWAS genes associated with BD. The list is complied using PGC 2011, Chen et al, 2013b and Muhleisen et al, 2014

GWAS genes
ADCY2
ANK3
C20orf133
CACNA1C
CADM2
DHH
LMAN2L
LOC646089
MACROD2
MIR2113
ODZ4
PBRM1
POU3F2
PPM1M
PTGFR
SYNE1
TRANK1

Supplementary Table S9: Following genes are overlapping genes between kME genes in 11 WGCNA modules associated with BD (this study) and PGC schizoprenia study (PGC 2014)

GeneName
SEPT3
ABCB9
ADAMTSL3
AKT3
ALDOA
APH1A
APOPT1
ARL6IP4
ATP2A2
ATPAF2
BAG5
C10orf32
C12orf65
C16orf86
C1orf54
C2orf69
C3orf49
CACNA1I
CENPT
CKAP5
CLCN3
CLU
CNKSR2
CNNM2
CNOT1
CNTN4
CSMD1
CTRL
CUL3
CYP17A1
DGKI
DNAJC19
EDC4
EPC2
EPHX2
ESRP2
FAM53C
FURIN
FUT9
FXR1
GATAD2A
GFOD2
GIGYF2
GRAMD1B
GRIA1
GRIN2A
HARS
HIRIP3
HSPD1
IGSF9B
ITIH4
KCNB1
KCNJ13
L3MBTL2
LUZP2
MAN2A2
MARS2
MDK
MED19
MEF2C
MMP16
NCAN
NDUFA6
NEK1
NGEF
NISCH
NLGN4X
NT5C2
OSBPL3
PBX4
PCCB
PCDHA2
PCDHA3
PCDHA4
PCDHA5

PCDHA7
PCGF6
PITPNM2
PLA2G15
PLEKHO1
PPP1R16B
PPP4C
PRKD1
PTN
RAI1
RANBP10
RANGAP1
RGS6
RRAS
SATB2
SDCCAG8
SLC12A4
SLC7A6
SMG6
SNX19
TAC3
TAOK2
TBC1D5
TCF20
THAP11
TMEM219
TMTC1
TSNARE1
TYW5
WDR55
ZDHHC5
ZFYVE21
ZSCAN2

Supplementary Table S10: Following genes are overlapping genes between kME genes in 11 WGCNA modules associated with BD (this study) and Autism study (Rubeis et al., 2014)

GeneName
ADNP
ANK2
APH1A
ASH1L
ASXL3
BCL11A
CUL3
DYRK1A
GABRB3
GRIN2B
MYT1L
NR3C2
PTEN
SCN2A
SETD5
SYNGAP1
TBR1
TRIO