

Unnamed: 0	p_val	avg_log2FC	pct.1	pct.2	p_val_adj
AACS	0.00e+00	3.05e-01	0.694	0.492	0.00e+00
AAK1	0.00e+00	4.11e-01	0.968	0.758	0.00e+00
ABAT	0.00e+00	2.74e-01	0.688	0.464	0.00e+00
ABCA17P	0.00e+00	5.55e-01	0.699	0.42	0.00e+00
ABCA3	0.00e+00	3.31e-01	0.806	0.598	0.00e+00
ABCB9	0.00e+00	3.89e-01	0.671	0.468	0.00e+00
ABCC1	0.00e+00	3.28e-01	0.587	0.362	0.00e+00
ABCC5	0.00e+00	3.46e-01	0.871	0.646	0.00e+00
ABCD3	0.00e+00	3.00e-01	0.588	0.385	0.00e+00
ABCD4	0.00e+00	2.97e-01	0.568	0.378	0.00e+00
ABHD12	0.00e+00	3.26e-01	0.638	0.449	0.00e+00
ABHD17B	0.00e+00	2.62e-01	0.518	0.33	0.00e+00
ABHD17C	0.00e+00	3.02e-01	0.468	0.257	0.00e+00
ABHD18	0.00e+00	3.65e-01	0.852	0.586	0.00e+00
ABHD2	0.00e+00	3.53e-01	0.841	0.618	0.00e+00
ABHD3	0.00e+00	4.41e-01	0.508	0.309	0.00e+00
ABI1	0.00e+00	3.31e-01	0.829	0.577	0.00e+00
ABI2	0.00e+00	3.64e-01	0.963	0.738	0.00e+00
ABL2	0.00e+00	4.54e-01	0.878	0.618	0.00e+00
ABLIM1	0.00e+00	6.91e-01	0.945	0.679	0.00e+00
ABLIM2	0.00e+00	4.83e-01	0.901	0.692	0.00e+00
ABLIM3	0.00e+00	4.06e-01	0.532	0.284	0.00e+00
ABO	0.00e+00	3.37e-01	0.309	0.143	0.00e+00
ABR	0.00e+00	4.53e-01	0.878	0.582	0.00e+00
ACACA	0.00e+00	4.88e-01	0.952	0.61	0.00e+00

ACAD11	0.00e+00	4.45e-01	0.715	0.421	0.00e+00
ACADSB	0.00e+00	3.71e-01	0.664	0.431	0.00e+00
ACAP2	0.00e+00	5.33e-01	0.953	0.704	0.00e+00
ACAP3	0.00e+00	4.24e-01	0.832	0.59	0.00e+00
ACBD6	0.00e+00	5.55e-01	0.935	0.66	0.00e+00
ACIN1	0.00e+00	3.15e-01	0.708	0.495	0.00e+00
ACO1	0.00e+00	5.86e-01	0.672	0.404	0.00e+00
ACSL3	0.00e+00	2.56e-01	0.817	0.597	0.00e+00
ACSL4	0.00e+00	4.65e-01	0.808	0.574	0.00e+00
ACTB	0.00e+00	2.52e-01	0.808	0.587	0.00e+00
ACTN1	0.00e+00	4.54e-01	0.891	0.649	0.00e+00
ACTN2	0.00e+00	3.59e-01	0.562	0.352	0.00e+00
ACTN4	0.00e+00	4.33e-01	0.722	0.435	0.00e+00
ACTR3	0.00e+00	3.00e-01	0.677	0.457	0.00e+00
ACVR1	0.00e+00	5.83e-01	0.649	0.407	0.00e+00
ACVR1C	0.00e+00	3.57e-01	0.434	0.231	0.00e+00
ACVR2A	0.00e+00	7.59e-01	0.908	0.687	0.00e+00
ACYP2	0.00e+00	5.02e-01	0.934	0.666	0.00e+00
ADAM10	0.00e+00	3.03e-01	0.848	0.61	0.00e+00
ADAM17	0.00e+00	3.37e-01	0.825	0.561	0.00e+00
ADAM22	0.00e+00	5.88e-01	0.961	0.746	0.00e+00
ADAM23	0.00e+00	4.37e-01	0.977	0.754	0.00e+00
ADAM32	0.00e+00	3.88e-01	0.587	0.342	0.00e+00
ADAM9	0.00e+00	3.50e-01	0.688	0.426	0.00e+00
ADAMTS10	0.00e+00	3.29e-01	0.534	0.349	0.00e+00
ADAMTS16	0.00e+00	6.29e-01	0.577	0.373	0.00e+00

ADAMTS3	0.00e+00	7.17e-01	0.577	0.333	0.00e+00
ADAMTSL1	0.00e+00	1.50e+00	0.447	0.238	0.00e+00
ADAR	0.00e+00	2.66e-01	0.723	0.512	0.00e+00
ADARB1	0.00e+00	3.17e-01	0.784	0.553	0.00e+00
ADCY3	0.00e+00	3.25e-01	0.615	0.41	0.00e+00
ADCY9	0.00e+00	5.32e-01	0.858	0.634	0.00e+00
ADD2	0.00e+00	5.36e-01	0.912	0.714	0.00e+00
ADD3	0.00e+00	6.36e-01	0.887	0.58	0.00e+00
ADGRB1	0.00e+00	4.53e-01	0.75	0.533	0.00e+00
ADGRB3	0.00e+00	5.63e-01	1.0	0.949	0.00e+00
ADGRL1	0.00e+00	4.74e-01	0.798	0.612	0.00e+00
ADGRL2	0.00e+00	7.69e-01	0.976	0.792	0.00e+00
ADGRL3	0.00e+00	7.89e-01	0.999	0.913	0.00e+00
ADIPOR2	0.00e+00	2.65e-01	0.632	0.415	0.00e+00
ADK	0.00e+00	4.69e-01	0.964	0.764	0.00e+00
ADNP	0.00e+00	3.70e-01	0.873	0.62	0.00e+00
ADSS2	0.00e+00	5.01e-01	0.638	0.34	0.00e+00
AEBP2	0.00e+00	5.69e-01	0.98	0.77	0.00e+00
AFAP1	0.00e+00	5.22e-01	0.676	0.469	0.00e+00
AFDN	0.00e+00	7.58e-01	0.902	0.517	0.00e+00
AFF2	0.00e+00	7.50e-01	0.744	0.494	0.00e+00
AFF3	0.00e+00	1.02e+00	0.972	0.861	0.00e+00
AFF4	0.00e+00	4.57e-01	0.91	0.65	0.00e+00
AFG1L	0.00e+00	4.10e-01	0.619	0.365	0.00e+00
AFTPH	0.00e+00	2.66e-01	0.74	0.513	0.00e+00
AGAP1	0.00e+00	7.88e-01	0.989	0.836	0.00e+00

AGAP3	0.00e+00	4.01e-01	0.721	0.506	0.00e+00
AGBL4	0.00e+00	5.99e-01	0.996	0.93	0.00e+00
AGFG1	0.00e+00	3.54e-01	0.874	0.603	0.00e+00
AGO3	0.00e+00	5.54e-01	0.91	0.644	0.00e+00
AGPAT4	0.00e+00	4.21e-01	0.889	0.664	0.00e+00
AGPS	0.00e+00	2.83e-01	0.714	0.48	0.00e+00
AGTPBP1	0.00e+00	4.05e-01	0.92	0.69	0.00e+00
AHCTF1	0.00e+00	2.62e-01	0.75	0.518	0.00e+00
AHCYL1	0.00e+00	2.78e-01	0.679	0.469	0.00e+00
AHCYL2	0.00e+00	4.46e-01	0.926	0.675	0.00e+00
AHDC1	0.00e+00	4.92e-01	0.657	0.448	0.00e+00
AHI1	0.00e+00	5.81e-01	0.995	0.853	0.00e+00
AIG1	0.00e+00	5.15e-01	0.912	0.665	0.00e+00
AJAP1	0.00e+00	4.45e-01	0.788	0.589	0.00e+00
AK5	0.00e+00	9.06e-01	0.987	0.869	0.00e+00
AKAP10	0.00e+00	3.54e-01	0.752	0.511	0.00e+00
AKAP11	0.00e+00	3.10e-01	0.861	0.631	0.00e+00
AKAP6	0.00e+00	5.05e-01	0.989	0.85	0.00e+00
AKAP8L	0.00e+00	5.24e-01	0.865	0.611	0.00e+00
AKAP9	0.00e+00	4.01e-01	0.957	0.794	0.00e+00
AKNAD1	0.00e+00	3.11e-01	0.459	0.262	0.00e+00
AKT2	0.00e+00	2.91e-01	0.644	0.441	0.00e+00
AKT3	0.00e+00	4.44e-01	0.99	0.652	0.00e+00
ALDH8A1	0.00e+00	3.21e-01	0.488	0.302	0.00e+00
ALG11	0.00e+00	2.65e-01	0.59	0.372	0.00e+00
ALG13	0.00e+00	3.38e-01	0.704	0.471	0.00e+00

ALMS1	0.00e+00	4.54e-01	0.833	0.584	0.00e+00
ALOX12-AS1	0.00e+00	3.16e-01	0.726	0.479	0.00e+00
AMBRA1	0.00e+00	4.10e-01	0.855	0.613	0.00e+00
AMMECR1	0.00e+00	4.34e-01	0.797	0.56	0.00e+00
AMN1	0.00e+00	3.54e-01	0.694	0.471	0.00e+00
AMPH	0.00e+00	8.82e-01	0.962	0.7	0.00e+00
AMZ1	0.00e+00	3.59e-01	0.502	0.307	0.00e+00
AMZ2	0.00e+00	4.16e-01	0.634	0.37	0.00e+00
ANAPC16	0.00e+00	3.13e-01	0.707	0.468	0.00e+00
ANK2	0.00e+00	6.02e-01	0.998	0.936	0.00e+00
ANK3	0.00e+00	5.53e-01	0.999	0.943	0.00e+00
ANKAR	0.00e+00	4.02e-01	0.684	0.449	0.00e+00
ANKDD1A	0.00e+00	3.68e-01	0.646	0.427	0.00e+00
ANKFN1	0.00e+00	1.41e+00	0.642	0.392	0.00e+00
ANKH	0.00e+00	4.18e-01	0.897	0.649	0.00e+00
ANKHD1	0.00e+00	5.66e-01	0.825	0.478	0.00e+00
ANKIB1	0.00e+00	4.22e-01	0.943	0.703	0.00e+00
ANKMY1	0.00e+00	3.01e-01	0.569	0.371	0.00e+00
ANKMY2	0.00e+00	3.24e-01	0.669	0.439	0.00e+00
ANKRD10	0.00e+00	2.99e-01	0.836	0.579	0.00e+00
ANKRD11	0.00e+00	4.34e-01	0.93	0.76	0.00e+00
ANKRD13C	0.00e+00	4.41e-01	0.873	0.612	0.00e+00
ANKRD16	0.00e+00	3.25e-01	0.508	0.315	0.00e+00
ANKRD17	0.00e+00	5.21e-01	0.974	0.776	0.00e+00
ANKRD18A	0.00e+00	-4.72e-01	0.067	0.198	0.00e+00
ANKRD20A11P	0.00e+00	1.64e+00	0.588	0.247	0.00e+00

ANKRD20A5P	0.00e+00	6.68e-01	0.532	0.307	0.00e+00
ANKRD26	0.00e+00	4.67e-01	0.93	0.706	0.00e+00
ANKRD28	0.00e+00	4.87e-01	0.939	0.683	0.00e+00
ANKRD29	0.00e+00	5.10e-01	0.436	0.22	0.00e+00
ANKRD30BL	0.00e+00	6.66e-01	0.99	0.807	0.00e+00
ANKRD33B	0.00e+00	7.50e-01	0.789	0.512	0.00e+00
ANKRD34C-AS	0.00e+00	8.77e-01	0.892	0.516	0.00e+00
ANKRD36	0.00e+00	5.33e-01	0.974	0.763	0.00e+00
ANKRD36C	0.00e+00	4.57e-01	0.963	0.766	0.00e+00
ANKRD46	0.00e+00	2.62e-01	0.625	0.427	0.00e+00
ANKRD7	0.00e+00	6.16e-01	0.744	0.472	0.00e+00
ANKS1A	0.00e+00	2.73e-01	0.75	0.527	0.00e+00
ANKS1B	0.00e+00	3.99e-01	0.999	0.965	0.00e+00
ANO10	0.00e+00	4.25e-01	0.862	0.629	0.00e+00
ANO3	0.00e+00	6.52e-01	0.873	0.708	0.00e+00
ANO4	0.00e+00	7.83e-01	0.859	0.547	0.00e+00
ANO5	0.00e+00	2.82e-01	0.893	0.641	0.00e+00
ANO6	0.00e+00	3.10e-01	0.659	0.454	0.00e+00
ANOS2P	0.00e+00	4.57e-01	0.799	0.434	0.00e+00
ANTXR1	0.00e+00	2.78e-01	0.56	0.371	0.00e+00
ANTXR2	0.00e+00	7.70e-01	0.3	0.135	0.00e+00
ANXA7	0.00e+00	3.80e-01	0.774	0.524	0.00e+00
AOPEP	0.00e+00	9.24e-01	0.944	0.533	0.00e+00
AP1G1	0.00e+00	3.25e-01	0.738	0.512	0.00e+00
AP1G2	0.00e+00	3.13e-01	0.577	0.37	0.00e+00
AP1M1	0.00e+00	3.19e-01	0.622	0.439	0.00e+00

AP2A2	0.00e+00	5.18e-01	0.819	0.516	0.00e+00
AP2B1	0.00e+00	3.64e-01	0.879	0.643	0.00e+00
AP3B2	0.00e+00	4.04e-01	0.804	0.61	0.00e+00
AP3S1	0.00e+00	2.58e-01	0.834	0.592	0.00e+00
AP3S2	0.00e+00	3.85e-01	0.567	0.329	0.00e+00
AP4E1	0.00e+00	2.78e-01	0.544	0.35	0.00e+00
AP4S1	0.00e+00	3.27e-01	0.662	0.436	0.00e+00
AP5M1	0.00e+00	2.82e-01	0.58	0.379	0.00e+00
APBA1	0.00e+00	6.88e-01	0.953	0.591	0.00e+00
APBA2	0.00e+00	6.17e-01	0.891	0.574	0.00e+00
APBB2	0.00e+00	7.09e-01	0.963	0.729	0.00e+00
APC	0.00e+00	4.34e-01	0.898	0.669	0.00e+00
APC2	0.00e+00	2.99e-01	0.635	0.444	0.00e+00
APOOL	0.00e+00	2.78e-01	0.552	0.361	0.00e+00
APP	0.00e+00	5.29e-01	0.985	0.818	0.00e+00
APPBP2	0.00e+00	3.43e-01	0.766	0.518	0.00e+00
APPL2	0.00e+00	2.94e-01	0.657	0.435	0.00e+00
APTX	0.00e+00	3.68e-01	0.715	0.465	0.00e+00
AQP4-AS1	0.00e+00	5.91e-01	0.731	0.485	0.00e+00
AQR	0.00e+00	2.74e-01	0.696	0.476	0.00e+00
ARAP2	0.00e+00	4.86e-01	0.767	0.509	0.00e+00
ARFGEF1	0.00e+00	5.62e-01	0.924	0.665	0.00e+00
ARFGEF2	0.00e+00	3.82e-01	0.84	0.598	0.00e+00
ARFGEF3	0.00e+00	4.87e-01	0.962	0.709	0.00e+00
ARGLU1	0.00e+00	4.40e-01	0.951	0.731	0.00e+00
ARHGAP10	0.00e+00	2.77e-01	0.535	0.353	0.00e+00

ARHGAP17	0.00e+00	2.94e-01	0.682	0.47	0.00e+00
ARHGAP20	0.00e+00	3.40e-01	0.836	0.602	0.00e+00
ARHGAP21	0.00e+00	5.22e-01	0.955	0.737	0.00e+00
ARHGAP22	0.00e+00	5.88e-01	0.719	0.479	0.00e+00
ARHGAP26	0.00e+00	5.16e-01	0.988	0.821	0.00e+00
ARHGAP28	0.00e+00	4.58e-01	0.396	0.223	0.00e+00
ARHGAP29	0.00e+00	4.57e-01	0.408	0.241	0.00e+00
ARHGAP32	0.00e+00	3.77e-01	0.982	0.827	0.00e+00
ARHGAP35	0.00e+00	5.04e-01	0.864	0.611	0.00e+00
ARHGAP44	0.00e+00	6.85e-01	0.973	0.765	0.00e+00
ARHGAP5	0.00e+00	5.12e-01	0.851	0.593	0.00e+00
ARHGEF11	0.00e+00	7.10e-01	0.867	0.602	0.00e+00
ARHGEF12	0.00e+00	4.15e-01	0.953	0.738	0.00e+00
ARHGEF17	0.00e+00	4.00e-01	0.531	0.279	0.00e+00
ARHGEF18	0.00e+00	2.95e-01	0.447	0.247	0.00e+00
ARHGEF28	0.00e+00	6.37e-01	0.847	0.58	0.00e+00
ARHGEF7	0.00e+00	3.31e-01	0.951	0.735	0.00e+00
ARHGEF9	0.00e+00	3.80e-01	0.892	0.642	0.00e+00
ARID1A	0.00e+00	3.83e-01	0.791	0.546	0.00e+00
ARID1B	0.00e+00	6.41e-01	0.988	0.814	0.00e+00
ARID3B	0.00e+00	3.42e-01	0.389	0.211	0.00e+00
ARID4A	0.00e+00	3.37e-01	0.874	0.627	0.00e+00
ARID4B	0.00e+00	4.73e-01	0.951	0.731	0.00e+00
ARID5B	0.00e+00	2.85e-01	0.858	0.644	0.00e+00
ARIH1	0.00e+00	4.49e-01	0.928	0.682	0.00e+00
ARL13B	0.00e+00	4.26e-01	0.692	0.44	0.00e+00

ARL15	0.00e+00	3.68e-01	0.968	0.77	0.00e+00
ARL17B	0.00e+00	6.44e-01	0.639	0.471	0.00e+00
ARL6IP6	0.00e+00	3.07e-01	0.448	0.267	0.00e+00
ARMC2	0.00e+00	4.44e-01	0.882	0.604	0.00e+00
ARMC8	0.00e+00	3.94e-01	0.83	0.571	0.00e+00
ARMC9	0.00e+00	2.89e-01	0.873	0.649	0.00e+00
ARMCX4	0.00e+00	2.95e-01	0.678	0.462	0.00e+00
ARMCX5-GPRAS1	0.00e+00	5.39e-01	0.778	0.404	0.00e+00
ARMH1	0.00e+00	4.39e-01	0.565	0.333	0.00e+00
ARMH3	0.00e+00	5.05e-01	0.813	0.48	0.00e+00
ARNT	0.00e+00	4.05e-01	0.704	0.438	0.00e+00
ARNT2	0.00e+00	3.05e-01	0.903	0.703	0.00e+00
ARNTL2	0.00e+00	4.64e-01	0.742	0.503	0.00e+00
ARPC1A	0.00e+00	3.01e-01	0.606	0.375	0.00e+00
ARPP21	0.00e+00	5.31e-01	0.986	0.907	0.00e+00
ARRDC3-AS1	0.00e+00	3.58e-01	0.432	0.247	0.00e+00
ARSB	0.00e+00	3.84e-01	0.611	0.404	0.00e+00
ASB3	0.00e+00	4.69e-01	0.928	0.565	0.00e+00
ASCC1	0.00e+00	3.63e-01	0.661	0.435	0.00e+00
ASCC3	0.00e+00	5.50e-01	0.932	0.672	0.00e+00
ASH1L	0.00e+00	4.89e-01	0.971	0.788	0.00e+00
ASPH	0.00e+00	3.65e-01	0.806	0.546	0.00e+00
ASTN1	0.00e+00	5.17e-01	0.975	0.77	0.00e+00
ASTN2	0.00e+00	6.71e-01	0.766	0.577	0.00e+00
ASXL1	0.00e+00	3.78e-01	0.825	0.558	0.00e+00
ASXL2	0.00e+00	3.47e-01	0.762	0.51	0.00e+00

ASXL3	0.00e+00	6.63e-01	0.914	0.648	0.00e+00
ATAD1	0.00e+00	3.09e-01	0.764	0.515	0.00e+00
ATAD2B	0.00e+00	4.49e-01	0.759	0.497	0.00e+00
ATCAY	0.00e+00	3.29e-01	0.821	0.623	0.00e+00
ATE1	0.00e+00	4.75e-01	0.872	0.593	0.00e+00
ATF2	0.00e+00	2.91e-01	0.821	0.568	0.00e+00
ATF6	0.00e+00	3.47e-01	0.805	0.556	0.00e+00
ATF7	0.00e+00	4.48e-01	0.586	0.304	0.00e+00
ATF7IP2	0.00e+00	5.82e-01	0.859	0.61	0.00e+00
ATG10	0.00e+00	2.75e-01	0.729	0.506	0.00e+00
ATG4B	0.00e+00	2.98e-01	0.643	0.436	0.00e+00
ATG4C	0.00e+00	2.86e-01	0.622	0.412	0.00e+00
ATG5	0.00e+00	5.03e-01	0.808	0.532	0.00e+00
ATG7	0.00e+00	3.63e-01	0.903	0.66	0.00e+00
ATL1	0.00e+00	3.09e-01	0.898	0.676	0.00e+00
ATM	0.00e+00	4.39e-01	0.82	0.561	0.00e+00
ATP1A3	0.00e+00	3.92e-01	0.741	0.478	0.00e+00
ATP2B1	0.00e+00	2.74e-01	0.983	0.832	0.00e+00
ATP2B4	0.00e+00	6.47e-01	0.96	0.72	0.00e+00
ATP2C1	0.00e+00	2.71e-01	0.928	0.714	0.00e+00
ATP5MG	0.00e+00	3.10e-01	0.663	0.406	0.00e+00
ATP6AP1L	0.00e+00	3.20e-01	0.664	0.454	0.00e+00
ATP6V0A1	0.00e+00	3.85e-01	0.914	0.69	0.00e+00
ATP6V1A	0.00e+00	3.81e-01	0.876	0.644	0.00e+00
ATP6V1E2	0.00e+00	2.91e-01	0.391	0.213	0.00e+00
ATP6V1H	0.00e+00	4.98e-01	0.962	0.714	0.00e+00

ATP8A1	0.00e+00	4.89e-01	0.971	0.768	0.00e+00
ATP8A2	0.00e+00	6.23e-01	0.994	0.861	0.00e+00
ATP9A	0.00e+00	3.67e-01	0.934	0.745	0.00e+00
ATP9B	0.00e+00	5.04e-01	0.928	0.584	0.00e+00
ATPAF1	0.00e+00	3.56e-01	0.677	0.461	0.00e+00
ATPSCKMT	0.00e+00	4.04e-01	0.597	0.341	0.00e+00
ATR	0.00e+00	4.22e-01	0.876	0.627	0.00e+00
ATRN	0.00e+00	3.09e-01	0.869	0.651	0.00e+00
ATRNL1	0.00e+00	4.31e-01	0.993	0.896	0.00e+00
ATRX	0.00e+00	3.66e-01	0.961	0.777	0.00e+00
ATXN1	0.00e+00	3.71e-01	0.971	0.801	0.00e+00
ATXN10	0.00e+00	3.12e-01	0.917	0.686	0.00e+00
ATXN2	0.00e+00	4.77e-01	0.946	0.71	0.00e+00
ATXN3	0.00e+00	3.91e-01	0.722	0.487	0.00e+00
ATXN7	0.00e+00	6.03e-01	0.833	0.476	0.00e+00
ATXN7L1	0.00e+00	4.38e-01	0.899	0.653	0.00e+00
AUH	0.00e+00	5.18e-01	0.854	0.561	0.00e+00
AUTS2	0.00e+00	7.06e-01	0.998	0.927	0.00e+00
AVL9	0.00e+00	4.23e-01	0.883	0.616	0.00e+00
B3GALNT2	0.00e+00	3.03e-01	0.605	0.382	0.00e+00
B3GAT1	0.00e+00	6.34e-01	0.78	0.562	0.00e+00
B3GLCT	0.00e+00	3.92e-01	0.591	0.377	0.00e+00
B4GALNT1	0.00e+00	2.95e-01	0.575	0.377	0.00e+00
B4GALNT3	0.00e+00	6.90e-01	0.687	0.415	0.00e+00
B4GALT5	0.00e+00	3.61e-01	0.775	0.535	0.00e+00
B4GALT6	0.00e+00	2.67e-01	0.709	0.509	0.00e+00

BABAM2	0.00e+00	6.30e-01	0.952	0.566	0.00e+00
BAIAP2	0.00e+00	4.57e-01	0.804	0.606	0.00e+00
BAIAP3	0.00e+00	4.40e-01	0.77	0.483	0.00e+00
BASP1	0.00e+00	2.93e-01	0.957	0.745	0.00e+00
BASP1-AS1	0.00e+00	6.67e-01	0.877	0.524	0.00e+00
BBS2	0.00e+00	2.59e-01	0.678	0.455	0.00e+00
BBS9	0.00e+00	5.59e-01	0.906	0.627	0.00e+00
BBX	0.00e+00	5.22e-01	0.8	0.518	0.00e+00
BCAS3	0.00e+00	5.30e-01	0.963	0.755	0.00e+00
BCKDHB	0.00e+00	4.73e-01	0.833	0.573	0.00e+00
BCL11B	0.00e+00	8.80e-01	0.853	0.517	0.00e+00
BCL2	0.00e+00	6.49e-01	0.771	0.491	0.00e+00
BCL2L13	0.00e+00	3.69e-01	0.688	0.462	0.00e+00
BCL9	0.00e+00	3.51e-01	0.495	0.287	0.00e+00
BCLAF3	0.00e+00	3.64e-01	0.619	0.382	0.00e+00
BCYRN1	0.00e+00	-1.38e+00	0.0	0.103	0.00e+00
BDH1	0.00e+00	3.68e-01	0.699	0.442	0.00e+00
BDP1	0.00e+00	4.71e-01	0.929	0.58	0.00e+00
BEND6	0.00e+00	3.59e-01	0.77	0.524	0.00e+00
BICC1	0.00e+00	6.15e-01	0.694	0.451	0.00e+00
BICD1	0.00e+00	6.97e-01	0.95	0.718	0.00e+00
BICDL1	0.00e+00	6.14e-01	0.915	0.54	0.00e+00
BICRAL	0.00e+00	5.60e-01	0.86	0.509	0.00e+00
BIN1	0.00e+00	3.49e-01	0.794	0.591	0.00e+00
BIN3	0.00e+00	3.02e-01	0.52	0.322	0.00e+00
BIRC6	0.00e+00	5.28e-01	0.964	0.769	0.00e+00

BIVM	0.00e+00	3.93e-01	0.764	0.453	0.00e+00
BLCAP	0.00e+00	4.99e-01	0.735	0.491	0.00e+00
BMERB1	0.00e+00	7.34e-01	0.871	0.502	0.00e+00
BMP2K	0.00e+00	3.25e-01	0.655	0.447	0.00e+00
BMPR1A	0.00e+00	4.12e-01	0.812	0.557	0.00e+00
BMPR2	0.00e+00	5.53e-01	0.967	0.79	0.00e+00
BMS1P1	0.00e+00	2.89e-01	0.568	0.36	0.00e+00
BMT2	0.00e+00	4.66e-01	0.822	0.486	0.00e+00
BNIP3L	0.00e+00	4.50e-01	0.816	0.585	0.00e+00
BORCS5	0.00e+00	3.93e-01	0.664	0.396	0.00e+00
BPTF	0.00e+00	3.76e-01	0.925	0.735	0.00e+00
BRAF	0.00e+00	4.66e-01	0.961	0.748	0.00e+00
BRD1	0.00e+00	2.69e-01	0.63	0.424	0.00e+00
BRD4	0.00e+00	3.98e-01	0.791	0.566	0.00e+00
BRINP1	0.00e+00	3.83e-01	0.949	0.724	0.00e+00
BRINP2	0.00e+00	6.49e-01	0.891	0.662	0.00e+00
BRINP3	0.00e+00	9.86e-01	0.886	0.595	0.00e+00
BRSK1	0.00e+00	3.55e-01	0.651	0.446	0.00e+00
BRWD1	0.00e+00	4.35e-01	0.964	0.737	0.00e+00
BRWD3	0.00e+00	3.23e-01	0.666	0.422	0.00e+00
BSDC1	0.00e+00	2.96e-01	0.598	0.411	0.00e+00
BSN	0.00e+00	3.60e-01	0.834	0.623	0.00e+00
BTAF1	0.00e+00	2.82e-01	0.824	0.585	0.00e+00
BTBD10	0.00e+00	3.55e-01	0.869	0.617	0.00e+00
BTBD7	0.00e+00	4.39e-01	0.81	0.503	0.00e+00
BTBD9	0.00e+00	4.45e-01	0.989	0.825	0.00e+00

BTF3L4	0.00e+00	2.69e-01	0.585	0.385	0.00e+00
BTRC	0.00e+00	4.87e-01	0.934	0.692	0.00e+00
C10orf90	0.00e+00	-1.22e+00	0.061	0.209	0.00e+00
C11orf49	0.00e+00	4.38e-01	0.923	0.692	0.00e+00
C11orf80	0.00e+00	5.78e-01	0.944	0.727	0.00e+00
C11orf87	0.00e+00	2.63e-01	0.617	0.428	0.00e+00
C12orf4	0.00e+00	2.76e-01	0.633	0.416	0.00e+00
C12orf45	0.00e+00	3.19e-01	0.573	0.36	0.00e+00
C18orf25	0.00e+00	2.72e-01	0.681	0.458	0.00e+00
C19orf12	0.00e+00	3.47e-01	0.632	0.433	0.00e+00
C1D	0.00e+00	3.05e-01	0.595	0.388	0.00e+00
C1GALT1	0.00e+00	3.64e-01	0.595	0.411	0.00e+00
C1QL3	0.00e+00	3.66e-01	0.385	0.213	0.00e+00
C1QTNF7-AS1	0.00e+00	4.18e-01	0.439	0.255	0.00e+00
C1orf159	0.00e+00	4.45e-01	0.687	0.463	0.00e+00
C1orf21	0.00e+00	4.54e-01	0.889	0.673	0.00e+00
C20orf194	0.00e+00	4.59e-01	0.956	0.765	0.00e+00
C2CD2	0.00e+00	3.96e-01	0.502	0.309	0.00e+00
C2CD3	0.00e+00	3.25e-01	0.688	0.465	0.00e+00
C2CD5	0.00e+00	3.78e-01	0.946	0.699	0.00e+00
C2orf27A	0.00e+00	4.35e-01	0.537	0.281	0.00e+00
C4orf50	0.00e+00	5.10e-01	0.722	0.489	0.00e+00
C6orf62	0.00e+00	3.93e-01	0.748	0.479	0.00e+00
C8orf34	0.00e+00	1.22e+00	0.907	0.664	0.00e+00
C8orf44	0.00e+00	4.26e-01	0.717	0.402	0.00e+00
C9orf147	0.00e+00	2.99e-01	0.242	0.091	0.00e+00

C9orf85	0.00e+00	3.16e-01	0.567	0.367	0.00e+00
CA10	0.00e+00	5.85e-01	0.922	0.827	0.00e+00
CA3	0.00e+00	3.90e-01	0.282	0.125	0.00e+00
CAB39	0.00e+00	3.90e-01	0.787	0.557	0.00e+00
CAB39L	0.00e+00	3.36e-01	0.625	0.408	0.00e+00
CABIN1	0.00e+00	3.58e-01	0.774	0.492	0.00e+00
CABP1	0.00e+00	3.97e-01	0.848	0.64	0.00e+00
CACHD1	0.00e+00	9.08e-01	0.837	0.548	0.00e+00
CACNA1A	0.00e+00	7.37e-01	0.987	0.865	0.00e+00
CACNA1B	0.00e+00	6.21e-01	0.995	0.891	0.00e+00
CACNA1C	0.00e+00	8.91e-01	0.998	0.661	0.00e+00
CACNA1D	0.00e+00	4.21e-01	0.975	0.764	0.00e+00
CACNA1E	0.00e+00	3.99e-01	0.977	0.807	0.00e+00
CACNA1H	0.00e+00	3.40e-01	0.418	0.233	0.00e+00
CACNA1I	0.00e+00	4.46e-01	0.604	0.397	0.00e+00
CACNA2D1	0.00e+00	3.41e-01	0.988	0.852	0.00e+00
CACNB2	0.00e+00	3.52e-01	0.991	0.782	0.00e+00
CACNG4	0.00e+00	6.18e-01	0.501	0.238	0.00e+00
CACNG7	0.00e+00	3.83e-01	0.613	0.405	0.00e+00
CACNG8	0.00e+00	7.11e-01	0.862	0.638	0.00e+00
CACUL1	0.00e+00	3.47e-01	0.815	0.564	0.00e+00
CADM1	0.00e+00	7.77e-01	0.992	0.857	0.00e+00
CADM2	0.00e+00	5.34e-01	0.999	0.971	0.00e+00
CADPS	0.00e+00	8.98e-01	0.997	0.905	0.00e+00
CADPS2	0.00e+00	1.36e+00	0.703	0.353	0.00e+00
CALCOCO2	0.00e+00	2.81e-01	0.541	0.357	0.00e+00

CALN1	0.00e+00	4.96e-01	0.93	0.834	0.00e+00
CALY	0.00e+00	4.22e-01	0.82	0.527	0.00e+00
CAMK1	0.00e+00	2.97e-01	0.618	0.416	0.00e+00
CAMK1D	0.00e+00	9.44e-01	0.99	0.881	0.00e+00
CAMK2A	0.00e+00	4.94e-01	0.96	0.803	0.00e+00
CAMK2B	0.00e+00	4.60e-01	0.939	0.768	0.00e+00
CAMK2D	0.00e+00	8.17e-01	0.988	0.826	0.00e+00
CAMK2G	0.00e+00	3.73e-01	0.769	0.55	0.00e+00
CAMK4	0.00e+00	8.30e-01	0.955	0.735	0.00e+00
CAMKK1	0.00e+00	4.20e-01	0.749	0.528	0.00e+00
CAMKK2	0.00e+00	5.19e-01	0.743	0.472	0.00e+00
CAMKMT	0.00e+00	4.96e-01	0.76	0.542	0.00e+00
CAMSAP1	0.00e+00	3.09e-01	0.737	0.532	0.00e+00
CAMSAP2	0.00e+00	4.85e-01	0.946	0.728	0.00e+00
CAMTA1	0.00e+00	5.23e-01	0.988	0.845	0.00e+00
CAND1	0.00e+00	2.62e-01	0.73	0.527	0.00e+00
CAP2	0.00e+00	2.52e-01	0.916	0.713	0.00e+00
CAPN7	0.00e+00	3.22e-01	0.737	0.5	0.00e+00
CAPS2	0.00e+00	7.59e-01	0.825	0.508	0.00e+00
CAPZB	0.00e+00	4.96e-01	0.804	0.578	0.00e+00
CARNMT1	0.00e+00	3.71e-01	0.74	0.498	0.00e+00
CASC15	0.00e+00	5.85e-01	0.757	0.47	0.00e+00
CASC2	0.00e+00	3.11e-01	0.602	0.404	0.00e+00
CASK	0.00e+00	7.55e-01	0.944	0.712	0.00e+00
CASP8AP2	0.00e+00	2.87e-01	0.6	0.405	0.00e+00
CASTOR2	0.00e+00	3.80e-01	0.524	0.312	0.00e+00

CASTOR3	0.00e+00	6.01e-01	0.772	0.459	0.00e+00
CATSPER2	0.00e+00	4.57e-01	0.858	0.592	0.00e+00
CATSPERE	0.00e+00	4.45e-01	0.491	0.276	0.00e+00
CBFA2T2	0.00e+00	6.13e-01	0.938	0.695	0.00e+00
CBL	0.00e+00	4.11e-01	0.705	0.474	0.00e+00
CBLB	0.00e+00	5.98e-01	0.757	0.492	0.00e+00
CBR4	0.00e+00	4.02e-01	0.831	0.573	0.00e+00
CC2D1A	0.00e+00	3.15e-01	0.751	0.546	0.00e+00
CCAR1	0.00e+00	3.71e-01	0.761	0.524	0.00e+00
CCBE1	0.00e+00	8.90e-01	0.539	0.314	0.00e+00
CCDC102B	0.00e+00	4.77e-01	0.671	0.41	0.00e+00
CCDC138	0.00e+00	5.16e-01	0.766	0.514	0.00e+00
CCDC14	0.00e+00	3.75e-01	0.783	0.526	0.00e+00
CCDC144A	0.00e+00	2.92e-01	0.644	0.386	0.00e+00
CCDC148	0.00e+00	3.33e-01	0.744	0.514	0.00e+00
CCDC171	0.00e+00	5.43e-01	0.919	0.678	0.00e+00
CCDC18-AS1	0.00e+00	5.99e-01	0.815	0.423	0.00e+00
CCDC191	0.00e+00	3.14e-01	0.67	0.447	0.00e+00
CCDC3	0.00e+00	7.68e-01	0.909	0.676	0.00e+00
CCDC30	0.00e+00	4.79e-01	0.882	0.624	0.00e+00
CCDC57	0.00e+00	2.94e-01	0.825	0.618	0.00e+00
CCDC59	0.00e+00	3.22e-01	0.607	0.398	0.00e+00
CCDC6	0.00e+00	6.01e-01	0.883	0.61	0.00e+00
CCDC66	0.00e+00	3.13e-01	0.853	0.597	0.00e+00
CCDC7	0.00e+00	5.24e-01	0.824	0.537	0.00e+00
CCDC85A	0.00e+00	4.81e-01	0.811	0.505	0.00e+00

CCDC88A	0.00e+00	3.99e-01	0.974	0.841	0.00e+00
CCDC91	0.00e+00	3.38e-01	0.931	0.676	0.00e+00
CCDC92	0.00e+00	6.79e-01	0.902	0.558	0.00e+00
CCDC93	0.00e+00	3.15e-01	0.736	0.498	0.00e+00
CCNC	0.00e+00	2.66e-01	0.735	0.497	0.00e+00
CCNH	0.00e+00	6.46e-01	0.882	0.566	0.00e+00
CCNT2-AS1	0.00e+00	4.96e-01	0.57	0.326	0.00e+00
CCP110	0.00e+00	3.98e-01	0.671	0.43	0.00e+00
CCPG1	0.00e+00	5.11e-01	0.972	0.648	0.00e+00
CCSER1	0.00e+00	4.16e-01	0.993	0.915	0.00e+00
CCSER2	0.00e+00	4.51e-01	0.917	0.679	0.00e+00
CD47	0.00e+00	4.25e-01	0.911	0.669	0.00e+00
CDC123	0.00e+00	3.06e-01	0.641	0.431	0.00e+00
CDC27	0.00e+00	4.14e-01	0.888	0.638	0.00e+00
CDC42BPA	0.00e+00	5.22e-01	0.984	0.832	0.00e+00
CDC42BPB	0.00e+00	3.61e-01	0.743	0.546	0.00e+00
CDC42SE2	0.00e+00	3.65e-01	0.901	0.663	0.00e+00
CDC73	0.00e+00	4.55e-01	0.782	0.51	0.00e+00
CDH13	0.00e+00	7.02e-01	0.765	0.629	0.00e+00
CDH18	0.00e+00	3.01e-01	0.961	0.862	0.00e+00
CDH2	0.00e+00	6.16e-01	0.965	0.784	0.00e+00
CDH22	0.00e+00	6.58e-01	0.716	0.505	0.00e+00
CDH4	0.00e+00	1.15e+00	0.883	0.489	0.00e+00
CDH7	0.00e+00	7.35e-01	0.383	0.214	0.00e+00
CDH8	0.00e+00	3.74e-01	0.934	0.784	0.00e+00
CDH9	0.00e+00	7.22e-01	0.912	0.753	0.00e+00

CDK12	0.00e+00	3.89e-01	0.779	0.532	0.00e+00
CDK13	0.00e+00	4.80e-01	0.951	0.706	0.00e+00
CDK14	0.00e+00	2.91e-01	0.976	0.774	0.00e+00
CDK17	0.00e+00	5.07e-01	0.882	0.631	0.00e+00
CDK18	0.00e+00	3.94e-01	0.335	0.158	0.00e+00
CDK19	0.00e+00	3.27e-01	0.869	0.618	0.00e+00
CDK5RAP1	0.00e+00	2.99e-01	0.682	0.461	0.00e+00
CDK8	0.00e+00	6.31e-01	0.856	0.586	0.00e+00
CDKAL1	0.00e+00	5.19e-01	0.938	0.673	0.00e+00
CDON	0.00e+00	3.43e-01	0.695	0.456	0.00e+00
CDR2	0.00e+00	2.80e-01	0.752	0.489	0.00e+00
CDS2	0.00e+00	3.50e-01	0.693	0.486	0.00e+00
CDYL	0.00e+00	2.96e-01	0.69	0.459	0.00e+00
CELF1	0.00e+00	4.70e-01	0.952	0.728	0.00e+00
CELF2	0.00e+00	4.36e-01	1.0	0.974	0.00e+00
CELF4	0.00e+00	7.86e-01	0.979	0.845	0.00e+00
CELF5	0.00e+00	6.30e-01	0.957	0.746	0.00e+00
CEMIP2	0.00e+00	1.18e+00	0.803	0.376	0.00e+00
CENPP	0.00e+00	7.07e-01	0.856	0.57	0.00e+00
CEP112	0.00e+00	5.70e-01	0.886	0.635	0.00e+00
CEP128	0.00e+00	4.77e-01	0.649	0.367	0.00e+00
CEP164	0.00e+00	3.62e-01	0.64	0.418	0.00e+00
CEP170	0.00e+00	5.42e-01	0.891	0.553	0.00e+00
CEP192	0.00e+00	3.71e-01	0.836	0.583	0.00e+00
CEP290	0.00e+00	3.85e-01	0.847	0.632	0.00e+00
CEP295	0.00e+00	3.01e-01	0.744	0.504	0.00e+00

CEP350	0.00e+00	3.02e-01	0.844	0.59	0.00e+00
CEP43	0.00e+00	7.08e-01	0.833	0.465	0.00e+00
CEP70	0.00e+00	3.29e-01	0.708	0.466	0.00e+00
CEP78	0.00e+00	4.20e-01	0.681	0.432	0.00e+00
CEP83	0.00e+00	3.17e-01	0.775	0.478	0.00e+00
CEP85L	0.00e+00	5.71e-01	0.875	0.612	0.00e+00
CEP89	0.00e+00	2.99e-01	0.614	0.428	0.00e+00
CERS1	0.00e+00	3.88e-01	0.676	0.393	0.00e+00
CERS4	0.00e+00	6.74e-01	0.756	0.531	0.00e+00
CERS5	0.00e+00	3.64e-01	0.79	0.533	0.00e+00
CERS6	0.00e+00	3.89e-01	0.965	0.809	0.00e+00
CERT1	0.00e+00	5.29e-01	0.817	0.466	0.00e+00
CFAP20DC-AS	0.00e+00	6.44e-01	0.672	0.377	0.00e+00
CFAP221	0.00e+00	2.74e-01	0.751	0.523	0.00e+00
CFAP43	0.00e+00	3.54e-01	0.603	0.393	0.00e+00
CFAP44	0.00e+00	4.78e-01	0.777	0.5	0.00e+00
CFAP54	0.00e+00	3.92e-01	0.577	0.376	0.00e+00
CFAP70	0.00e+00	6.10e-01	0.706	0.439	0.00e+00
CFDP1	0.00e+00	2.70e-01	0.693	0.484	0.00e+00
CHCHD3	0.00e+00	5.55e-01	0.932	0.667	0.00e+00
CHCHD6	0.00e+00	2.99e-01	0.786	0.552	0.00e+00
CHD1L	0.00e+00	3.16e-01	0.567	0.349	0.00e+00
CHD2	0.00e+00	4.55e-01	0.929	0.648	0.00e+00
CHD3	0.00e+00	4.29e-01	0.704	0.511	0.00e+00
CHD5	0.00e+00	3.45e-01	0.867	0.727	0.00e+00
CHD6	0.00e+00	4.99e-01	0.927	0.674	0.00e+00

CHD8	0.00e+00	3.01e-01	0.745	0.53	0.00e+00
CHD9	0.00e+00	3.38e-01	0.969	0.748	0.00e+00
CHFR	0.00e+00	3.31e-01	0.745	0.522	0.00e+00
CHIC1	0.00e+00	3.00e-01	0.76	0.503	0.00e+00
CHKA	0.00e+00	2.99e-01	0.761	0.526	0.00e+00
CHL1	0.00e+00	3.24e-01	0.951	0.793	0.00e+00
CHM	0.00e+00	4.35e-01	0.86	0.583	0.00e+00
CHN1	0.00e+00	3.19e-01	0.98	0.835	0.00e+00
CHN2	0.00e+00	1.89e+00	0.775	0.304	0.00e+00
CHROMR	0.00e+00	2.79e-01	0.421	0.238	0.00e+00
CHST11	0.00e+00	6.00e-01	0.625	0.4	0.00e+00
CHSY1	0.00e+00	4.81e-01	0.71	0.457	0.00e+00
CHSY3	0.00e+00	8.21e-01	0.983	0.828	0.00e+00
CIBAR1	0.00e+00	2.78e-01	0.572	0.357	0.00e+00
CISD1	0.00e+00	3.14e-01	0.634	0.415	0.00e+00
CIT	0.00e+00	3.08e-01	0.923	0.665	0.00e+00
CKAP5	0.00e+00	2.52e-01	0.761	0.545	0.00e+00
CKMT2-AS1	0.00e+00	3.14e-01	0.707	0.447	0.00e+00
CLASP1	0.00e+00	5.39e-01	0.977	0.783	0.00e+00
CLASP2	0.00e+00	4.69e-01	0.982	0.842	0.00e+00
CLASRP	0.00e+00	3.40e-01	0.634	0.435	0.00e+00
CLCN3	0.00e+00	3.65e-01	0.838	0.592	0.00e+00
CLCN6	0.00e+00	2.77e-01	0.502	0.317	0.00e+00
CLEC16A	0.00e+00	5.78e-01	0.873	0.609	0.00e+00
CLEC2L	0.00e+00	4.24e-01	0.599	0.381	0.00e+00
CLHC1	0.00e+00	4.60e-01	0.573	0.322	0.00e+00

CLINT1	0.00e+00	3.45e-01	0.656	0.438	0.00e+00
CLIP1	0.00e+00	3.59e-01	0.892	0.688	0.00e+00
CLIP2	0.00e+00	3.62e-01	0.785	0.599	0.00e+00
CLIP4	0.00e+00	4.34e-01	0.861	0.578	0.00e+00
CLNS1A	0.00e+00	3.96e-01	0.762	0.501	0.00e+00
CLOCK	0.00e+00	3.71e-01	0.847	0.589	0.00e+00
CLSTN1	0.00e+00	2.82e-01	0.879	0.687	0.00e+00
CLSTN2	0.00e+00	1.16e+00	0.924	0.787	0.00e+00
CLSTN3	0.00e+00	3.12e-01	0.781	0.572	0.00e+00
CLTA	0.00e+00	3.29e-01	0.728	0.492	0.00e+00
CLTC	0.00e+00	2.85e-01	0.868	0.652	0.00e+00
CLVS1	0.00e+00	5.01e-01	0.87	0.617	0.00e+00
CMC1	0.00e+00	3.48e-01	0.631	0.388	0.00e+00
CMC2	0.00e+00	3.23e-01	0.802	0.523	0.00e+00
CMIP	0.00e+00	5.67e-01	0.937	0.751	0.00e+00
CMSS1	0.00e+00	3.86e-01	0.926	0.661	0.00e+00
CNIH3	0.00e+00	7.44e-01	0.842	0.56	0.00e+00
CNKSR2	0.00e+00	5.66e-01	0.986	0.861	0.00e+00
CNNM1	0.00e+00	4.81e-01	0.724	0.474	0.00e+00
CNNM2	0.00e+00	4.95e-01	0.895	0.631	0.00e+00
CNOT10	0.00e+00	3.73e-01	0.673	0.45	0.00e+00
CNOT2	0.00e+00	3.31e-01	0.851	0.585	0.00e+00
CNOT4	0.00e+00	4.49e-01	0.883	0.607	0.00e+00
CNOT6L	0.00e+00	2.94e-01	0.772	0.524	0.00e+00
CNOT9	0.00e+00	2.66e-01	0.558	0.348	0.00e+00
CNRIP1	0.00e+00	3.20e-01	0.69	0.467	0.00e+00

CNTN1	0.00e+00	6.55e-01	0.996	0.897	0.00e+00
CNTN3	0.00e+00	1.06e+00	0.969	0.755	0.00e+00
CNTN4	0.00e+00	5.89e-01	0.962	0.807	0.00e+00
CNTN6	0.00e+00	7.85e-01	0.616	0.348	0.00e+00
CNTNAP2	0.00e+00	1.17e+00	1.0	0.672	0.00e+00
CNTNAP3	0.00e+00	-9.26e-01	0.097	0.235	0.00e+00
COA1	0.00e+00	3.41e-01	0.793	0.536	0.00e+00
COA6	0.00e+00	2.73e-01	0.427	0.241	0.00e+00
COBL	0.00e+00	3.14e-01	0.875	0.661	0.00e+00
COG5	0.00e+00	3.69e-01	0.905	0.582	0.00e+00
COG6	0.00e+00	4.07e-01	0.892	0.609	0.00e+00
COL19A1	0.00e+00	5.82e-01	0.628	0.426	0.00e+00
COL21A1	0.00e+00	4.90e-01	0.339	0.176	0.00e+00
COL25A1	0.00e+00	1.65e+00	0.711	0.417	0.00e+00
COL4A1	0.00e+00	6.08e-01	0.491	0.243	0.00e+00
COL4A2	0.00e+00	8.10e-01	0.619	0.336	0.00e+00
COLQ	0.00e+00	3.63e-01	0.715	0.492	0.00e+00
COMMD1	0.00e+00	3.94e-01	0.876	0.61	0.00e+00
COMMD10	0.00e+00	3.77e-01	0.687	0.46	0.00e+00
COP1	0.00e+00	7.43e-01	0.959	0.567	0.00e+00
COPA	0.00e+00	3.05e-01	0.797	0.574	0.00e+00
COQ4	0.00e+00	3.08e-01	0.673	0.434	0.00e+00
COQ8A	0.00e+00	2.92e-01	0.577	0.371	0.00e+00
CORO2B	0.00e+00	3.54e-01	0.67	0.483	0.00e+00
COX10-AS1	0.00e+00	3.84e-01	0.774	0.513	0.00e+00
COX16	0.00e+00	2.95e-01	0.554	0.331	0.00e+00

COX7A2L	0.00e+00	3.47e-01	0.826	0.588	0.00e+00
CPD	0.00e+00	4.65e-01	0.777	0.531	0.00e+00
CPE	0.00e+00	3.00e-01	0.942	0.752	0.00e+00
CPEB2	0.00e+00	4.18e-01	0.77	0.492	0.00e+00
CPEB2-DT	0.00e+00	3.68e-01	0.465	0.258	0.00e+00
CPEB3	0.00e+00	4.55e-01	0.963	0.734	0.00e+00
CPEB4	0.00e+00	4.39e-01	0.959	0.743	0.00e+00
CPLANE1	0.00e+00	5.34e-01	0.93	0.551	0.00e+00
CPLX2	0.00e+00	6.84e-01	0.792	0.528	0.00e+00
CPNE4	0.00e+00	8.33e-01	0.766	0.654	0.00e+00
CPNE5	0.00e+00	4.09e-01	0.625	0.407	0.00e+00
CPNE8	0.00e+00	1.09e+00	0.629	0.342	0.00e+00
CPSF6	0.00e+00	3.99e-01	0.871	0.61	0.00e+00
CPT1C	0.00e+00	2.91e-01	0.671	0.473	0.00e+00
CPVL	0.00e+00	4.59e-01	0.451	0.208	0.00e+00
CRACDL	0.00e+00	4.93e-01	0.919	0.532	0.00e+00
CRADD	0.00e+00	3.90e-01	0.584	0.394	0.00e+00
CRB1	0.00e+00	6.11e-01	0.678	0.415	0.00e+00
CRBN	0.00e+00	2.82e-01	0.757	0.519	0.00e+00
CREB1	0.00e+00	2.99e-01	0.733	0.513	0.00e+00
CREBBP	0.00e+00	3.69e-01	0.849	0.614	0.00e+00
CREBZF	0.00e+00	2.51e-01	0.7	0.466	0.00e+00
CRHR1	0.00e+00	3.90e-01	0.562	0.331	0.00e+00
CRIM1	0.00e+00	5.61e-01	0.78	0.46	0.00e+00
CRIPT	0.00e+00	2.52e-01	0.418	0.236	0.00e+00
CRK	0.00e+00	3.01e-01	0.567	0.373	0.00e+00

CRLS1	0.00e+00	2.87e-01	0.629	0.396	0.00e+00
CRMP1	0.00e+00	3.24e-01	0.815	0.619	0.00e+00
CROCCP3	0.00e+00	3.81e-01	0.665	0.43	0.00e+00
CRPPA	0.00e+00	5.69e-01	0.761	0.426	0.00e+00
CRTC1	0.00e+00	5.16e-01	0.767	0.544	0.00e+00
CRTC3	0.00e+00	4.63e-01	0.813	0.555	0.00e+00
CRYL1	0.00e+00	4.30e-01	0.697	0.439	0.00e+00
CSAD	0.00e+00	5.60e-01	0.829	0.557	0.00e+00
CSGALNACT1	0.00e+00	1.00e+00	0.729	0.447	0.00e+00
CSGALNACT2	0.00e+00	3.48e-01	0.685	0.46	0.00e+00
CSMD1	0.00e+00	5.33e-01	1.0	0.988	0.00e+00
CSMD2	0.00e+00	5.40e-01	0.942	0.767	0.00e+00
CSMD3	0.00e+00	9.75e-01	0.999	0.93	0.00e+00
CSNK1A1	0.00e+00	4.81e-01	0.919	0.637	0.00e+00
CSNK1G1	0.00e+00	3.95e-01	0.751	0.486	0.00e+00
CSNK1G3	0.00e+00	3.82e-01	0.799	0.54	0.00e+00
CSNK2A1	0.00e+00	3.48e-01	0.798	0.564	0.00e+00
CSPP1	0.00e+00	4.34e-01	0.911	0.665	0.00e+00
CSRNP2	0.00e+00	2.77e-01	0.673	0.451	0.00e+00
CSRNP3	0.00e+00	4.41e-01	0.965	0.773	0.00e+00
CSTF3	0.00e+00	2.96e-01	0.827	0.565	0.00e+00
CTBP2	0.00e+00	7.95e-01	0.666	0.37	0.00e+00
CTCF	0.00e+00	2.83e-01	0.553	0.368	0.00e+00
CTDSPL2	0.00e+00	3.23e-01	0.722	0.495	0.00e+00
CTIF	0.00e+00	4.61e-01	0.818	0.548	0.00e+00
CTNNA2	0.00e+00	3.03e-01	0.997	0.932	0.00e+00

CTNNAL1	0.00e+00	2.97e-01	0.676	0.425	0.00e+00
CTNNB1	0.00e+00	3.12e-01	0.803	0.579	0.00e+00
CTNNBL1	0.00e+00	3.13e-01	0.638	0.414	0.00e+00
CTNND2	0.00e+00	3.91e-01	0.997	0.925	0.00e+00
CTTNBP2	0.00e+00	5.29e-01	0.897	0.651	0.00e+00
CTTNBP2NL	0.00e+00	3.57e-01	0.648	0.443	0.00e+00
CUL1	0.00e+00	3.26e-01	0.815	0.573	0.00e+00
CUL3	0.00e+00	3.75e-01	0.847	0.595	0.00e+00
CUL5	0.00e+00	3.88e-01	0.861	0.611	0.00e+00
CWC22	0.00e+00	3.04e-01	0.572	0.371	0.00e+00
CWC27	0.00e+00	4.32e-01	0.823	0.57	0.00e+00
CWF19L2	0.00e+00	4.30e-01	0.754	0.499	0.00e+00
CXXC4-AS1	0.00e+00	4.58e-01	0.663	0.409	0.00e+00
CXXC5	0.00e+00	3.66e-01	0.487	0.301	0.00e+00
CYB5B	0.00e+00	2.55e-01	0.639	0.435	0.00e+00
CYB5R4	0.00e+00	3.90e-01	0.739	0.501	0.00e+00
CYFIP1	0.00e+00	4.42e-01	0.679	0.402	0.00e+00
CYFIP2	0.00e+00	4.31e-01	0.913	0.69	0.00e+00
CYLD	0.00e+00	3.64e-01	0.718	0.49	0.00e+00
CYP2U1-AS1	0.00e+00	3.58e-01	0.538	0.319	0.00e+00
CYP4F29P	0.00e+00	2.93e-01	0.195	0.05	0.00e+00
CYP7B1	0.00e+00	5.45e-01	0.665	0.399	0.00e+00
CYRIA	0.00e+00	5.63e-01	0.898	0.514	0.00e+00
CYRIB	0.00e+00	3.01e-01	0.883	0.516	0.00e+00
CYTOR	0.00e+00	3.62e-01	0.681	0.425	0.00e+00
DAAM1	0.00e+00	6.01e-01	0.96	0.75	0.00e+00

DACH1	0.00e+00	5.97e-01	0.326	0.135	0.00e+00
DACH2	0.00e+00	3.66e-01	0.524	0.337	0.00e+00
DANT2	0.00e+00	7.40e-01	0.991	0.6	0.00e+00
DAP3	0.00e+00	3.84e-01	0.769	0.525	0.00e+00
DAPK1	0.00e+00	5.72e-01	0.905	0.651	0.00e+00
DARS1	0.00e+00	2.79e-01	0.549	0.34	0.00e+00
DCAF10	0.00e+00	3.56e-01	0.835	0.577	0.00e+00
DCAF5	0.00e+00	4.29e-01	0.859	0.592	0.00e+00
DCAF6	0.00e+00	4.57e-01	0.929	0.677	0.00e+00
DCAF7	0.00e+00	2.96e-01	0.676	0.485	0.00e+00
DCLK1	0.00e+00	4.36e-01	0.995	0.902	0.00e+00
DCLK2	0.00e+00	4.73e-01	0.972	0.749	0.00e+00
DCP1A	0.00e+00	3.67e-01	0.679	0.446	0.00e+00
DCP1B	0.00e+00	3.61e-01	0.566	0.327	0.00e+00
DCSTAMP	0.00e+00	7.55e-01	0.317	0.083	0.00e+00
DCTN5	0.00e+00	3.34e-01	0.671	0.45	0.00e+00
DCUN1D2	0.00e+00	2.84e-01	0.651	0.438	0.00e+00
DCUN1D4	0.00e+00	4.26e-01	0.875	0.595	0.00e+00
DCX	0.00e+00	3.48e-01	0.539	0.343	0.00e+00
DDHD1	0.00e+00	3.33e-01	0.877	0.614	0.00e+00
DDX10	0.00e+00	4.59e-01	0.862	0.59	0.00e+00
DDX17	0.00e+00	4.45e-01	0.967	0.732	0.00e+00
DDX39B	0.00e+00	2.83e-01	0.56	0.342	0.00e+00
DDX46	0.00e+00	2.86e-01	0.728	0.51	0.00e+00
DDX5	0.00e+00	2.80e-01	0.934	0.678	0.00e+00
DDX58	0.00e+00	3.32e-01	0.425	0.246	0.00e+00

DEAF1	0.00e+00	3.98e-01	0.688	0.438	0.00e+00
DENND1A	0.00e+00	5.24e-01	0.97	0.765	0.00e+00
DENND1B	0.00e+00	3.49e-01	0.844	0.587	0.00e+00
DENND3	0.00e+00	2.53e-01	0.652	0.443	0.00e+00
DENND4A	0.00e+00	4.29e-01	0.936	0.694	0.00e+00
DENND4C	0.00e+00	4.70e-01	0.759	0.485	0.00e+00
DENND5A	0.00e+00	2.72e-01	0.723	0.52	0.00e+00
DENND5B	0.00e+00	4.11e-01	0.929	0.712	0.00e+00
DENND6A	0.00e+00	3.77e-01	0.773	0.507	0.00e+00
DENND6B	0.00e+00	3.19e-01	0.631	0.436	0.00e+00
DEPDC5	0.00e+00	3.20e-01	0.577	0.366	0.00e+00
DGCR2	0.00e+00	3.08e-01	0.666	0.46	0.00e+00
DGKB	0.00e+00	6.97e-01	0.974	0.734	0.00e+00
DGKG	0.00e+00	6.91e-01	0.771	0.589	0.00e+00
DGKI	0.00e+00	3.34e-01	0.982	0.787	0.00e+00
DGKZ	0.00e+00	3.38e-01	0.832	0.622	0.00e+00
DGLUCY	0.00e+00	3.81e-01	0.573	0.352	0.00e+00
DHX15	0.00e+00	3.24e-01	0.711	0.474	0.00e+00
DHX30	0.00e+00	2.73e-01	0.688	0.486	0.00e+00
DHX36	0.00e+00	3.68e-01	0.78	0.477	0.00e+00
DHX57	0.00e+00	2.66e-01	0.646	0.451	0.00e+00
DHX8	0.00e+00	3.25e-01	0.528	0.332	0.00e+00
DHX9	0.00e+00	2.65e-01	0.696	0.484	0.00e+00
DIAPH1	0.00e+00	2.78e-01	0.687	0.475	0.00e+00
DIAPH2	0.00e+00	6.32e-01	0.905	0.689	0.00e+00
DICER1	0.00e+00	3.35e-01	0.846	0.603	0.00e+00

DIDO1	0.00e+00	2.60e-01	0.684	0.475	0.00e+00
DIP2A	0.00e+00	3.10e-01	0.641	0.433	0.00e+00
DIP2C	0.00e+00	7.09e-01	0.973	0.789	0.00e+00
DIPK1A	0.00e+00	5.68e-01	0.872	0.512	0.00e+00
DIPK2A	0.00e+00	6.13e-01	0.637	0.326	0.00e+00
DIRC3	0.00e+00	5.43e-01	0.868	0.594	0.00e+00
DIS3L2	0.00e+00	3.45e-01	0.844	0.607	0.00e+00
DISP1	0.00e+00	8.80e-01	0.681	0.32	0.00e+00
DIXDC1	0.00e+00	5.14e-01	0.679	0.433	0.00e+00
DKK3	0.00e+00	3.36e-01	0.852	0.621	0.00e+00
DLC1	0.00e+00	1.02e+00	0.669	0.447	0.00e+00
DLG2	0.00e+00	5.27e-01	1.0	0.984	0.00e+00
DLGAP1	0.00e+00	4.73e-01	1.0	0.976	0.00e+00
DLGAP2	0.00e+00	4.23e-01	0.997	0.591	0.00e+00
DLGAP3	0.00e+00	3.06e-01	0.729	0.531	0.00e+00
DLGAP4	0.00e+00	4.61e-01	0.871	0.672	0.00e+00
DMD	0.00e+00	1.08e+00	0.992	0.925	0.00e+00
DMTF1	0.00e+00	4.20e-01	0.826	0.545	0.00e+00
DMXL1	0.00e+00	3.52e-01	0.918	0.671	0.00e+00
DMXL2	0.00e+00	5.49e-01	0.939	0.71	0.00e+00
DNAAF1	0.00e+00	3.88e-01	0.44	0.246	0.00e+00
DNAAF4	0.00e+00	4.06e-01	0.699	0.424	0.00e+00
DNAH14	0.00e+00	4.48e-01	0.887	0.639	0.00e+00
DNAH6	0.00e+00	6.09e-01	0.893	0.619	0.00e+00
DNAH7	0.00e+00	3.56e-01	0.839	0.604	0.00e+00
DNAH9	0.00e+00	3.86e-01	0.652	0.438	0.00e+00

DNAJB14	0.00e+00	2.86e-01	0.856	0.619	0.00e+00
DNAJC13	0.00e+00	3.22e-01	0.691	0.471	0.00e+00
DNAJC27-AS1	0.00e+00	4.43e-01	0.595	0.342	0.00e+00
DNAJC5	0.00e+00	3.63e-01	0.685	0.479	0.00e+00
DNAJC5G	0.00e+00	3.92e-01	0.391	0.207	0.00e+00
DNAJC6	0.00e+00	5.21e-01	0.966	0.738	0.00e+00
DNAJC9	0.00e+00	4.56e-01	0.638	0.405	0.00e+00
DNER	0.00e+00	6.17e-01	0.843	0.571	0.00e+00
DNHD1	0.00e+00	3.21e-01	0.641	0.436	0.00e+00
DNM1	0.00e+00	5.00e-01	0.974	0.788	0.00e+00
DNM1L	0.00e+00	3.96e-01	0.891	0.643	0.00e+00
DNM2	0.00e+00	3.89e-01	0.669	0.457	0.00e+00
DNM3	0.00e+00	5.48e-01	0.934	0.769	0.00e+00
DNMT3A	0.00e+00	6.64e-01	0.866	0.636	0.00e+00
DOCK11	0.00e+00	5.57e-01	0.385	0.178	0.00e+00
DOCK3	0.00e+00	5.11e-01	0.997	0.918	0.00e+00
DOCK4	0.00e+00	5.86e-01	0.972	0.853	0.00e+00
DOCK7	0.00e+00	4.53e-01	0.871	0.616	0.00e+00
DOCK9	0.00e+00	3.54e-01	0.935	0.744	0.00e+00
DOK5	0.00e+00	5.87e-01	0.774	0.55	0.00e+00
DOK6	0.00e+00	1.08e+00	0.977	0.825	0.00e+00
DOP1A	0.00e+00	6.41e-01	0.917	0.527	0.00e+00
DOP1B	0.00e+00	4.44e-01	0.723	0.432	0.00e+00
DPH6-DT	0.00e+00	6.07e-01	0.718	0.417	0.00e+00
DPM1	0.00e+00	2.56e-01	0.617	0.409	0.00e+00
DPP10	0.00e+00	8.13e-01	0.951	0.809	0.00e+00

DPP6	0.00e+00	3.91e-01	0.987	0.85	0.00e+00
DPY19L1P1	0.00e+00	4.04e-01	0.789	0.444	0.00e+00
DPY19L2	0.00e+00	4.99e-01	0.842	0.579	0.00e+00
DPY19L2P1	0.00e+00	4.51e-01	0.907	0.58	0.00e+00
DPYD	0.00e+00	7.40e-01	0.985	0.911	0.00e+00
DPYSL2	0.00e+00	4.65e-01	0.968	0.793	0.00e+00
DPYSL5	0.00e+00	3.78e-01	0.517	0.308	0.00e+00
DRAIC	0.00e+00	4.67e-01	0.55	0.337	0.00e+00
DROSHA	0.00e+00	3.17e-01	0.686	0.462	0.00e+00
DSE	0.00e+00	2.95e-01	0.745	0.515	0.00e+00
DSEL	0.00e+00	4.45e-01	0.562	0.284	0.00e+00
DSP	0.00e+00	2.86e-01	0.231	0.079	0.00e+00
DST	0.00e+00	6.42e-01	0.993	0.89	0.00e+00
DSTYK	0.00e+00	2.96e-01	0.65	0.448	0.00e+00
DTD1	0.00e+00	4.77e-01	0.732	0.444	0.00e+00
DTNA	0.00e+00	5.85e-01	0.98	0.808	0.00e+00
DTNB	0.00e+00	5.25e-01	0.971	0.765	0.00e+00
DTWD1	0.00e+00	2.54e-01	0.827	0.563	0.00e+00
DUBR	0.00e+00	6.76e-01	0.797	0.455	0.00e+00
DYM	0.00e+00	4.44e-01	0.942	0.683	0.00e+00
DYNC1H1	0.00e+00	2.90e-01	0.896	0.73	0.00e+00
DYNC1I1	0.00e+00	4.34e-01	0.982	0.798	0.00e+00
DYNC1I2	0.00e+00	4.07e-01	0.892	0.648	0.00e+00
DYNC2H1	0.00e+00	4.02e-01	0.901	0.654	0.00e+00
DYNC2LI1	0.00e+00	3.09e-01	0.799	0.538	0.00e+00
DYRK1A	0.00e+00	4.48e-01	0.928	0.668	0.00e+00

DZIP1	0.00e+00	3.19e-01	0.776	0.551	0.00e+00
E2F3	0.00e+00	3.36e-01	0.742	0.517	0.00e+00
ECHDC1	0.00e+00	2.65e-01	0.701	0.469	0.00e+00
ECHDC2	0.00e+00	4.13e-01	0.626	0.386	0.00e+00
ECPAS	0.00e+00	4.98e-01	0.912	0.54	0.00e+00
EDEM3	0.00e+00	2.86e-01	0.697	0.482	0.00e+00
EDIL3	0.00e+00	8.43e-01	0.957	0.679	0.00e+00
EDIL3-DT	0.00e+00	7.24e-01	0.678	0.329	0.00e+00
EEA1	0.00e+00	3.08e-01	0.72	0.502	0.00e+00
EEF1A2	0.00e+00	2.58e-01	0.655	0.446	0.00e+00
EEFSEC	0.00e+00	3.63e-01	0.576	0.334	0.00e+00
EFCAB2	0.00e+00	3.45e-01	0.713	0.498	0.00e+00
EFCAB6	0.00e+00	4.09e-01	0.768	0.52	0.00e+00
EFR3A	0.00e+00	4.52e-01	0.858	0.61	0.00e+00
EFR3B	0.00e+00	3.11e-01	0.828	0.624	0.00e+00
EGF	0.00e+00	4.80e-01	0.331	0.149	0.00e+00
EHBP1	0.00e+00	5.81e-01	0.971	0.772	0.00e+00
EHMT1	0.00e+00	3.42e-01	0.729	0.53	0.00e+00
EIF2AK2	0.00e+00	3.26e-01	0.67	0.465	0.00e+00
EIF2AK3	0.00e+00	4.12e-01	0.672	0.426	0.00e+00
EIF2AK4	0.00e+00	3.74e-01	0.708	0.465	0.00e+00
EIF2B3	0.00e+00	4.28e-01	0.752	0.511	0.00e+00
EIF3E	0.00e+00	2.76e-01	0.709	0.488	0.00e+00
EIF4E	0.00e+00	2.51e-01	0.673	0.463	0.00e+00
EIF4G3	0.00e+00	5.38e-01	0.987	0.855	0.00e+00
EIPR1	0.00e+00	3.04e-01	0.714	0.452	0.00e+00

ELAPOR1	0.00e+00	7.44e-01	0.823	0.445	0.00e+00
ELAPOR2	0.00e+00	5.32e-01	0.699	0.367	0.00e+00
ELAVL3	0.00e+00	5.14e-01	0.817	0.634	0.00e+00
ELF2	0.00e+00	2.83e-01	0.735	0.526	0.00e+00
ELMO1	0.00e+00	4.30e-01	0.844	0.667	0.00e+00
ELMOD1	0.00e+00	4.34e-01	0.902	0.676	0.00e+00
ELOA-AS1	0.00e+00	3.12e-01	0.559	0.335	0.00e+00
ELOVL4	0.00e+00	2.68e-01	0.674	0.463	0.00e+00
ELOVL6	0.00e+00	4.11e-01	0.746	0.507	0.00e+00
ELP1	0.00e+00	3.36e-01	0.716	0.442	0.00e+00
ELP4	0.00e+00	4.90e-01	0.83	0.564	0.00e+00
EMC3-AS1	0.00e+00	2.68e-01	0.339	0.173	0.00e+00
EML4	0.00e+00	3.49e-01	0.825	0.575	0.00e+00
EML5	0.00e+00	7.39e-01	0.867	0.594	0.00e+00
EML6	0.00e+00	4.10e-01	0.934	0.716	0.00e+00
EMSY	0.00e+00	4.30e-01	0.723	0.474	0.00e+00
ENAH	0.00e+00	4.31e-01	0.852	0.62	0.00e+00
ENOX1	0.00e+00	3.93e-01	0.974	0.849	0.00e+00
ENSA	0.00e+00	3.96e-01	0.872	0.619	0.00e+00
ENTPD1-AS1	0.00e+00	4.71e-01	0.738	0.448	0.00e+00
EP300	0.00e+00	3.69e-01	0.822	0.578	0.00e+00
EP400	0.00e+00	2.80e-01	0.794	0.587	0.00e+00
EP400P1	0.00e+00	3.50e-01	0.514	0.287	0.00e+00
EPB41L1	0.00e+00	4.24e-01	0.814	0.618	0.00e+00
EPB41L4B	0.00e+00	3.22e-01	0.883	0.644	0.00e+00
EPB41L5	0.00e+00	2.53e-01	0.76	0.547	0.00e+00

EPC1	0.00e+00	3.55e-01	0.904	0.639	0.00e+00
EPC2	0.00e+00	3.76e-01	0.771	0.514	0.00e+00
EPDR1	0.00e+00	5.91e-01	0.705	0.427	0.00e+00
EPG5	0.00e+00	2.82e-01	0.712	0.486	0.00e+00
EPHA5	0.00e+00	7.70e-01	0.891	0.755	0.00e+00
EPHA5-AS1	0.00e+00	3.68e-01	0.474	0.266	0.00e+00
EPHB2	0.00e+00	4.72e-01	0.507	0.331	0.00e+00
EPM2AIP1	0.00e+00	2.65e-01	0.662	0.457	0.00e+00
EPN2	0.00e+00	5.01e-01	0.821	0.603	0.00e+00
EPRS1	0.00e+00	4.62e-01	0.625	0.342	0.00e+00
EPS15	0.00e+00	2.84e-01	0.683	0.487	0.00e+00
EPS15L1	0.00e+00	3.19e-01	0.748	0.53	0.00e+00
ERBIN	0.00e+00	5.08e-01	0.762	0.507	0.00e+00
ERC1	0.00e+00	7.00e-01	0.987	0.825	0.00e+00
ERC2	0.00e+00	5.78e-01	0.997	0.936	0.00e+00
ERCC5	0.00e+00	3.64e-01	0.588	0.342	0.00e+00
ERCC6	0.00e+00	3.60e-01	0.588	0.373	0.00e+00
ERCC6L2	0.00e+00	3.34e-01	0.845	0.614	0.00e+00
ERCC8	0.00e+00	3.52e-01	0.744	0.501	0.00e+00
ERI3	0.00e+00	3.76e-01	0.765	0.531	0.00e+00
ERICH3	0.00e+00	3.98e-01	0.832	0.58	0.00e+00
ERO1A	0.00e+00	2.96e-01	0.601	0.393	0.00e+00
ERP44	0.00e+00	2.72e-01	0.774	0.532	0.00e+00
ERVK13-1	0.00e+00	3.72e-01	0.594	0.329	0.00e+00
ESCO1	0.00e+00	2.53e-01	0.684	0.463	0.00e+00
ESF1	0.00e+00	3.55e-01	0.824	0.548	0.00e+00

ESYT2	0.00e+00	2.87e-01	0.887	0.649	0.00e+00
ETFDH	0.00e+00	3.31e-01	0.684	0.446	0.00e+00
ETFRF1	0.00e+00	3.21e-01	0.522	0.318	0.00e+00
ETNK1	0.00e+00	3.04e-01	0.852	0.592	0.00e+00
ETV1	0.00e+00	1.15e+00	0.623	0.342	0.00e+00
EVI5	0.00e+00	4.01e-01	0.935	0.695	0.00e+00
EVL	0.00e+00	3.90e-01	0.922	0.686	0.00e+00
EWSR1	0.00e+00	3.10e-01	0.717	0.496	0.00e+00
EXOC1	0.00e+00	2.69e-01	0.782	0.547	0.00e+00
EXOC2	0.00e+00	4.74e-01	0.862	0.6	0.00e+00
EXOC4	0.00e+00	6.73e-01	0.984	0.799	0.00e+00
EXOC5	0.00e+00	3.57e-01	0.783	0.529	0.00e+00
EXOC6	0.00e+00	4.42e-01	0.945	0.718	0.00e+00
EXOC6B	0.00e+00	5.34e-01	0.986	0.824	0.00e+00
EXOG	0.00e+00	2.95e-01	0.656	0.43	0.00e+00
EXOSC3	0.00e+00	2.99e-01	0.481	0.278	0.00e+00
EXT1	0.00e+00	2.99e-01	0.953	0.735	0.00e+00
EXT2	0.00e+00	3.21e-01	0.794	0.558	0.00e+00
EYA3	0.00e+00	5.22e-01	0.831	0.546	0.00e+00
EZH1	0.00e+00	3.27e-01	0.649	0.44	0.00e+00
FAF1	0.00e+00	5.58e-01	0.975	0.773	0.00e+00
FAM110B	0.00e+00	8.49e-01	0.799	0.51	0.00e+00
FAM117A	0.00e+00	3.10e-01	0.43	0.243	0.00e+00
FAM117B	0.00e+00	3.10e-01	0.7	0.479	0.00e+00
FAM118A	0.00e+00	3.85e-01	0.514	0.279	0.00e+00
FAM120A	0.00e+00	2.97e-01	0.847	0.601	0.00e+00

FAM120B	0.00e+00	4.65e-01	0.86	0.533	0.00e+00
FAM126A	0.00e+00	4.20e-01	0.632	0.434	0.00e+00
FAM126B	0.00e+00	4.61e-01	0.898	0.633	0.00e+00
FAM133B	0.00e+00	2.70e-01	0.618	0.395	0.00e+00
FAM135A	0.00e+00	3.80e-01	0.914	0.678	0.00e+00
FAM135B	0.00e+00	7.63e-01	0.953	0.74	0.00e+00
FAM13A	0.00e+00	8.97e-01	0.793	0.547	0.00e+00
FAM13B	0.00e+00	3.05e-01	0.915	0.661	0.00e+00
FAM13C	0.00e+00	6.48e-01	0.832	0.574	0.00e+00
FAM151B	0.00e+00	3.83e-01	0.486	0.278	0.00e+00
FAM153CP	0.00e+00	2.87e-01	0.779	0.467	0.00e+00
FAM155A	0.00e+00	5.34e-01	1.0	0.979	0.00e+00
FAM168A	0.00e+00	4.74e-01	0.946	0.721	0.00e+00
FAM169A	0.00e+00	2.81e-01	0.834	0.587	0.00e+00
FAM171A1	0.00e+00	6.55e-01	0.927	0.681	0.00e+00
FAM171B	0.00e+00	3.35e-01	0.904	0.682	0.00e+00
FAM172A	0.00e+00	6.47e-01	0.969	0.762	0.00e+00
FAM189A1	0.00e+00	7.47e-01	0.903	0.572	0.00e+00
FAM193A	0.00e+00	4.62e-01	0.824	0.594	0.00e+00
FAM193B	0.00e+00	3.45e-01	0.681	0.481	0.00e+00
FAM204A	0.00e+00	2.83e-01	0.714	0.48	0.00e+00
FAM214A	0.00e+00	3.65e-01	0.776	0.468	0.00e+00
FAM219A	0.00e+00	3.56e-01	0.717	0.489	0.00e+00
FAM222B	0.00e+00	6.15e-01	0.877	0.532	0.00e+00
FAM228B	0.00e+00	3.97e-01	0.699	0.483	0.00e+00
FAM241A	0.00e+00	5.70e-01	0.479	0.222	0.00e+00

FAM66C	0.00e+00	3.40e-01	0.804	0.535	0.00e+00
FAM78B	0.00e+00	3.19e-01	0.71	0.505	0.00e+00
FAM9B	0.00e+00	3.91e-01	0.133	0.023	0.00e+00
FAR1	0.00e+00	4.62e-01	0.917	0.659	0.00e+00
FARP1	0.00e+00	4.35e-01	0.897	0.686	0.00e+00
FARP2	0.00e+00	5.13e-01	0.666	0.424	0.00e+00
FARS2	0.00e+00	6.56e-01	0.956	0.693	0.00e+00
FAT1	0.00e+00	3.83e-01	0.204	0.075	0.00e+00
FAT3	0.00e+00	8.56e-01	0.933	0.722	0.00e+00
FAT4	0.00e+00	6.42e-01	0.653	0.422	0.00e+00
FAXC	0.00e+00	2.55e-01	0.745	0.52	0.00e+00
FBH1	0.00e+00	3.08e-01	0.495	0.299	0.00e+00
FBXL17	0.00e+00	4.61e-01	0.986	0.807	0.00e+00
FBXL2	0.00e+00	3.98e-01	0.905	0.667	0.00e+00
FBXL20	0.00e+00	4.68e-01	0.914	0.666	0.00e+00
FBXL4	0.00e+00	2.50e-01	0.669	0.452	0.00e+00
FBXO11	0.00e+00	4.99e-01	0.942	0.71	0.00e+00
FBXO22	0.00e+00	3.22e-01	0.752	0.527	0.00e+00
FBXO28	0.00e+00	3.34e-01	0.74	0.504	0.00e+00
FBXO30-DT	0.00e+00	2.93e-01	0.5	0.301	0.00e+00
FBXO42	0.00e+00	4.26e-01	0.817	0.572	0.00e+00
FBXO9	0.00e+00	2.56e-01	0.703	0.482	0.00e+00
FBXW11	0.00e+00	3.84e-01	0.882	0.62	0.00e+00
FBXW4	0.00e+00	4.42e-01	0.797	0.524	0.00e+00
FBXW7	0.00e+00	3.89e-01	0.98	0.831	0.00e+00
FCHSD2	0.00e+00	8.28e-01	0.741	0.493	0.00e+00

FDFT1	0.00e+00	3.97e-01	0.598	0.359	0.00e+00
FER	0.00e+00	6.22e-01	0.964	0.754	0.00e+00
FEZ2	0.00e+00	3.07e-01	0.86	0.614	0.00e+00
FEZF2	0.00e+00	3.59e-01	0.218	0.037	0.00e+00
FGD1	0.00e+00	3.47e-01	0.523	0.331	0.00e+00
FGD4	0.00e+00	5.64e-01	0.703	0.48	0.00e+00
FGF12	0.00e+00	4.34e-01	0.998	0.894	0.00e+00
FGF13	0.00e+00	7.33e-01	0.729	0.55	0.00e+00
FGF14	0.00e+00	5.40e-01	0.998	0.944	0.00e+00
FGFR1OP2	0.00e+00	3.73e-01	0.753	0.484	0.00e+00
FGGY	0.00e+00	4.26e-01	0.633	0.402	0.00e+00
FHIT	0.00e+00	4.55e-01	0.899	0.705	0.00e+00
FHOD3	0.00e+00	4.28e-01	0.915	0.728	0.00e+00
FIGN	0.00e+00	1.41e+00	0.796	0.394	0.00e+00
FKTN	0.00e+00	3.12e-01	0.722	0.485	0.00e+00
FLACC1	0.00e+00	5.46e-01	0.564	0.301	0.00e+00
FLG-AS1	0.00e+00	4.55e-01	0.629	0.357	0.00e+00
FLNA	0.00e+00	3.54e-01	0.459	0.237	0.00e+00
FLNB	0.00e+00	5.10e-01	0.831	0.587	0.00e+00
FLVCR1	0.00e+00	4.14e-01	0.606	0.367	0.00e+00
FLYWCH1	0.00e+00	3.38e-01	0.61	0.393	0.00e+00
FMN1	0.00e+00	4.49e-01	0.725	0.501	0.00e+00
FMN2	0.00e+00	5.62e-01	0.985	0.819	0.00e+00
FMNL2	0.00e+00	4.08e-01	0.975	0.783	0.00e+00
FNBP1L	0.00e+00	7.04e-01	0.771	0.47	0.00e+00
FNBP4	0.00e+00	3.89e-01	0.857	0.536	0.00e+00

FNDC3A	0.00e+00	6.95e-01	0.942	0.685	0.00e+00
FNDC3B	0.00e+00	4.47e-01	0.641	0.426	0.00e+00
FNIP1	0.00e+00	5.62e-01	0.917	0.5	0.00e+00
FNTB	0.00e+00	3.25e-01	0.519	0.297	0.00e+00
FOCAD	0.00e+00	5.75e-01	0.983	0.762	0.00e+00
FOXJ3	0.00e+00	3.91e-01	0.893	0.651	0.00e+00
FO XK2	0.00e+00	3.35e-01	0.788	0.571	0.00e+00
FOXN3	0.00e+00	4.57e-01	0.804	0.583	0.00e+00
FOXO1	0.00e+00	4.85e-01	0.489	0.274	0.00e+00
FOXP1	0.00e+00	3.44e-01	0.859	0.704	0.00e+00
FRAS1	0.00e+00	4.77e-01	0.862	0.692	0.00e+00
FRG1-DT	0.00e+00	4.96e-01	0.559	0.329	0.00e+00
FRG1CP	0.00e+00	2.69e-01	0.485	0.286	0.00e+00
FRG1HP	0.00e+00	4.69e-01	0.862	0.514	0.00e+00
FRMD3	0.00e+00	6.36e-01	0.757	0.476	0.00e+00
FRMD4A	0.00e+00	4.62e-01	0.999	0.964	0.00e+00
FRMPD4	0.00e+00	6.17e-01	0.978	0.849	0.00e+00
FRRS1L	0.00e+00	4.71e-01	0.944	0.745	0.00e+00
FRS2	0.00e+00	4.16e-01	0.818	0.548	0.00e+00
FRY	0.00e+00	6.10e-01	0.969	0.797	0.00e+00
FRYL	0.00e+00	4.27e-01	0.836	0.592	0.00e+00
FSD1L	0.00e+00	2.76e-01	0.813	0.575	0.00e+00
FSIP1	0.00e+00	2.56e-01	0.678	0.452	0.00e+00
FSIP2-AS1	0.00e+00	5.49e-01	0.57	0.3	0.00e+00
FSTL4	0.00e+00	5.51e-01	0.841	0.632	0.00e+00
FSTL5	0.00e+00	6.55e-01	0.543	0.29	0.00e+00

FTCD	0.00e+00	4.00e-01	0.484	0.247	0.00e+00
FTO	0.00e+00	5.35e-01	0.965	0.738	0.00e+00
FTX	0.00e+00	6.18e-01	0.999	0.933	0.00e+00
FUBP1	0.00e+00	2.84e-01	0.695	0.474	0.00e+00
FUBP3	0.00e+00	2.94e-01	0.732	0.495	0.00e+00
FUT8	0.00e+00	4.66e-01	0.911	0.666	0.00e+00
FXR1	0.00e+00	3.15e-01	0.836	0.575	0.00e+00
FYN	0.00e+00	5.25e-01	0.939	0.689	0.00e+00
G2E3	0.00e+00	2.65e-01	0.66	0.445	0.00e+00
G3BP2	0.00e+00	2.63e-01	0.786	0.577	0.00e+00
GAB2	0.00e+00	4.99e-01	0.619	0.413	0.00e+00
GABBR1	0.00e+00	3.40e-01	0.794	0.501	0.00e+00
GABBR2	0.00e+00	4.55e-01	0.975	0.815	0.00e+00
GABPB1-AS1	0.00e+00	4.62e-01	0.821	0.582	0.00e+00
GABRA2	0.00e+00	6.02e-01	0.957	0.753	0.00e+00
GABRB1	0.00e+00	5.90e-01	0.98	0.843	0.00e+00
GABRB3	0.00e+00	2.54e-01	0.994	0.883	0.00e+00
GABRG2	0.00e+00	3.99e-01	0.922	0.679	0.00e+00
GABRG3	0.00e+00	5.61e-01	0.793	0.704	0.00e+00
GALK2	0.00e+00	3.73e-01	0.823	0.569	0.00e+00
GALNT1	0.00e+00	4.04e-01	0.7	0.486	0.00e+00
GALNT11	0.00e+00	3.49e-01	0.919	0.65	0.00e+00
GALNT13	0.00e+00	9.70e-01	0.943	0.659	0.00e+00
GALNT16	0.00e+00	5.11e-01	0.663	0.451	0.00e+00
GALNT17	0.00e+00	8.07e-01	0.966	0.589	0.00e+00
GALNT18	0.00e+00	5.17e-01	0.971	0.787	0.00e+00

GALNT2	0.00e+00	5.09e-01	0.759	0.537	0.00e+00
GALNT7	0.00e+00	2.97e-01	0.777	0.528	0.00e+00
GALNT9	0.00e+00	4.66e-01	0.51	0.328	0.00e+00
GALNTL6	0.00e+00	1.25e+00	0.939	0.825	0.00e+00
GAPVD1	0.00e+00	3.46e-01	0.797	0.562	0.00e+00
GARNL3	0.00e+00	7.22e-01	0.868	0.56	0.00e+00
GARS1	0.00e+00	2.61e-01	0.624	0.382	0.00e+00
GARS1-DT	0.00e+00	5.78e-01	0.869	0.461	0.00e+00
GAS2	0.00e+00	6.00e-01	0.883	0.575	0.00e+00
GATAD2B	0.00e+00	4.33e-01	0.874	0.554	0.00e+00
GBF1	0.00e+00	4.26e-01	0.837	0.61	0.00e+00
GCFC2	0.00e+00	2.87e-01	0.688	0.466	0.00e+00
GCNT1	0.00e+00	4.07e-01	0.424	0.243	0.00e+00
GDAP1	0.00e+00	6.36e-01	0.977	0.769	0.00e+00
GDAP2	0.00e+00	3.20e-01	0.607	0.392	0.00e+00
GDPD1	0.00e+00	3.28e-01	0.748	0.515	0.00e+00
GET1	0.00e+00	2.89e-01	0.523	0.315	0.00e+00
GFOD1	0.00e+00	4.08e-01	0.888	0.644	0.00e+00
GFPT1	0.00e+00	2.86e-01	0.741	0.518	0.00e+00
GGA2	0.00e+00	2.94e-01	0.759	0.539	0.00e+00
GGT7	0.00e+00	3.44e-01	0.794	0.575	0.00e+00
GIGYF2	0.00e+00	3.90e-01	0.891	0.636	0.00e+00
GIPC1	0.00e+00	4.09e-01	0.765	0.493	0.00e+00
GIPC2	0.00e+00	2.81e-01	0.641	0.433	0.00e+00
GIT2	0.00e+00	3.10e-01	0.785	0.55	0.00e+00
GK5	0.00e+00	3.45e-01	0.704	0.465	0.00e+00

GLCCI1	0.00e+00	4.74e-01	0.832	0.567	0.00e+00
GLCE	0.00e+00	7.07e-01	0.835	0.508	0.00e+00
GLDN	0.00e+00	2.99e-01	0.368	0.185	0.00e+00
GLG1	0.00e+00	3.75e-01	0.919	0.705	0.00e+00
GLRA3	0.00e+00	6.74e-01	0.756	0.474	0.00e+00
GLRB	0.00e+00	3.54e-01	0.877	0.608	0.00e+00
GLRX3	0.00e+00	3.18e-01	0.603	0.397	0.00e+00
GLS	0.00e+00	3.57e-01	0.977	0.757	0.00e+00
GLT1D1	0.00e+00	3.81e-01	0.658	0.433	0.00e+00
GMCL1	0.00e+00	4.00e-01	0.737	0.498	0.00e+00
GMDS	0.00e+00	7.64e-01	0.973	0.746	0.00e+00
GMDS-DT	0.00e+00	7.97e-01	0.9	0.515	0.00e+00
GNA12	0.00e+00	4.69e-01	0.705	0.463	0.00e+00
GNAI1	0.00e+00	4.40e-01	0.756	0.518	0.00e+00
GNAI3	0.00e+00	2.90e-01	0.667	0.453	0.00e+00
GNAL	0.00e+00	3.48e-01	0.884	0.631	0.00e+00
GNAO1	0.00e+00	5.57e-01	0.949	0.752	0.00e+00
GNAQ	0.00e+00	5.64e-01	0.984	0.804	0.00e+00
GNAS	0.00e+00	2.82e-01	0.886	0.667	0.00e+00
GNB1	0.00e+00	3.72e-01	0.891	0.69	0.00e+00
GNB5	0.00e+00	3.29e-01	0.848	0.617	0.00e+00
GNG2	0.00e+00	5.53e-01	0.89	0.624	0.00e+00
GNL3L	0.00e+00	2.85e-01	0.403	0.22	0.00e+00
GNPTAB	0.00e+00	2.97e-01	0.851	0.628	0.00e+00
GOLGA3	0.00e+00	3.26e-01	0.677	0.476	0.00e+00
GOLGA4	0.00e+00	4.32e-01	0.935	0.695	0.00e+00

GOLGA8A	0.00e+00	3.71e-01	0.901	0.597	0.00e+00
GOLGB1	0.00e+00	3.22e-01	0.827	0.62	0.00e+00
GOLM1	0.00e+00	2.82e-01	0.712	0.504	0.00e+00
GOLM2	0.00e+00	6.47e-01	0.904	0.517	0.00e+00
GOLPH3	0.00e+00	2.66e-01	0.642	0.436	0.00e+00
GOLT1B	0.00e+00	2.64e-01	0.725	0.495	0.00e+00
GOSR1	0.00e+00	3.53e-01	0.73	0.48	0.00e+00
GOSR2	0.00e+00	2.51e-01	0.524	0.321	0.00e+00
GP1BB	0.00e+00	3.11e-01	0.57	0.327	0.00e+00
GPALPP1	0.00e+00	3.61e-01	0.793	0.536	0.00e+00
GPATCH2	0.00e+00	3.90e-01	0.874	0.607	0.00e+00
GPATCH2L	0.00e+00	3.28e-01	0.798	0.565	0.00e+00
GPATCH8	0.00e+00	5.42e-01	0.975	0.754	0.00e+00
GPBP1	0.00e+00	3.82e-01	0.885	0.622	0.00e+00
GPBP1L1	0.00e+00	3.09e-01	0.661	0.446	0.00e+00
GPD2	0.00e+00	3.27e-01	0.705	0.492	0.00e+00
GPHN	0.00e+00	6.48e-01	0.995	0.901	0.00e+00
GPI	0.00e+00	5.66e-01	0.891	0.548	0.00e+00
GPLD1	0.00e+00	2.72e-01	0.633	0.415	0.00e+00
GPM6A	0.00e+00	4.44e-01	0.995	0.91	0.00e+00
GPM6B	0.00e+00	3.84e-01	0.962	0.771	0.00e+00
GPR135	0.00e+00	5.77e-01	0.737	0.461	0.00e+00
GPR137C	0.00e+00	4.85e-01	0.758	0.492	0.00e+00
GPR155	0.00e+00	2.91e-01	0.79	0.573	0.00e+00
GPR158	0.00e+00	8.04e-01	0.963	0.711	0.00e+00
GPR173	0.00e+00	4.43e-01	0.675	0.456	0.00e+00

GRAMD1B	0.00e+00	5.95e-01	0.866	0.624	0.00e+00
GRB10	0.00e+00	2.86e-01	0.827	0.571	0.00e+00
GRB2	0.00e+00	3.77e-01	0.749	0.537	0.00e+00
GREB1L	0.00e+00	9.48e-01	0.902	0.697	0.00e+00
GRIA1	0.00e+00	1.01e+00	0.996	0.919	0.00e+00
GRIA2	0.00e+00	5.52e-01	0.998	0.931	0.00e+00
GRIA3	0.00e+00	6.35e-01	0.989	0.851	0.00e+00
GRID1	0.00e+00	5.22e-01	0.96	0.775	0.00e+00
GRID2	0.00e+00	6.62e-01	0.987	0.869	0.00e+00
GRIK2	0.00e+00	5.53e-01	0.998	0.914	0.00e+00
GRIK5	0.00e+00	3.14e-01	0.729	0.531	0.00e+00
GRIN1	0.00e+00	4.66e-01	0.951	0.736	0.00e+00
GRIN2B	0.00e+00	4.92e-01	0.997	0.913	0.00e+00
GRIP1	0.00e+00	9.85e-01	0.91	0.745	0.00e+00
GRK3	0.00e+00	8.73e-01	0.875	0.528	0.00e+00
GRK4	0.00e+00	3.32e-01	0.768	0.553	0.00e+00
GRM1	0.00e+00	4.47e-01	0.96	0.742	0.00e+00
GRM5	0.00e+00	3.10e-01	0.994	0.9	0.00e+00
GSK3B	0.00e+00	4.67e-01	0.951	0.708	0.00e+00
GSTA4	0.00e+00	3.34e-01	0.8	0.527	0.00e+00
GSTCD	0.00e+00	3.46e-01	0.587	0.371	0.00e+00
GTDC1	0.00e+00	7.59e-01	0.952	0.736	0.00e+00
GTF2A1	0.00e+00	2.77e-01	0.586	0.392	0.00e+00
GTF2E2	0.00e+00	2.73e-01	0.619	0.41	0.00e+00
GTF2F2	0.00e+00	4.76e-01	0.688	0.421	0.00e+00
GTF2H1	0.00e+00	2.54e-01	0.64	0.432	0.00e+00

GTF2I	0.00e+00	3.94e-01	0.87	0.647	0.00e+00
GTF3C1	0.00e+00	3.47e-01	0.701	0.481	0.00e+00
GUCY1A1	0.00e+00	7.52e-01	0.741	0.409	0.00e+00
GUCY1B1	0.00e+00	4.54e-01	0.779	0.465	0.00e+00
GUSBP1	0.00e+00	4.49e-01	0.848	0.469	0.00e+00
GVQW3	0.00e+00	3.15e-01	0.568	0.343	0.00e+00
GYG2P1	0.00e+00	7.95e-01	0.815	0.453	0.00e+00
HACD3	0.00e+00	3.29e-01	0.788	0.545	0.00e+00
HACE1	0.00e+00	3.40e-01	0.848	0.576	0.00e+00
HACL1	0.00e+00	2.82e-01	0.722	0.493	0.00e+00
HADHB	0.00e+00	2.62e-01	0.543	0.35	0.00e+00
HARS1	0.00e+00	2.81e-01	0.615	0.385	0.00e+00
HBS1L	0.00e+00	3.39e-01	0.775	0.52	0.00e+00
HCG17	0.00e+00	3.38e-01	0.767	0.487	0.00e+00
HCN1	0.00e+00	5.75e-01	0.972	0.787	0.00e+00
HDAC2-AS2	0.00e+00	4.02e-01	0.49	0.291	0.00e+00
HDAC4	0.00e+00	4.11e-01	0.827	0.62	0.00e+00
HDAC7	0.00e+00	3.22e-01	0.492	0.305	0.00e+00
HDAC8	0.00e+00	4.97e-01	0.933	0.675	0.00e+00
HDGFL3	0.00e+00	4.49e-01	0.81	0.492	0.00e+00
HDLBP	0.00e+00	2.62e-01	0.694	0.493	0.00e+00
HDX	0.00e+00	3.66e-01	0.631	0.425	0.00e+00
HEATR5A	0.00e+00	3.11e-01	0.506	0.3	0.00e+00
HEATR5B	0.00e+00	3.62e-01	0.779	0.543	0.00e+00
HECTD2	0.00e+00	3.35e-01	0.878	0.641	0.00e+00
HECTD4	0.00e+00	4.71e-01	0.952	0.772	0.00e+00

HECW1	0.00e+00	5.54e-01	0.964	0.811	0.00e+00
HECW2	0.00e+00	3.66e-01	0.961	0.748	0.00e+00
HELZ	0.00e+00	4.29e-01	0.854	0.604	0.00e+00
HERC1	0.00e+00	4.96e-01	0.979	0.802	0.00e+00
HERC2	0.00e+00	3.89e-01	0.864	0.556	0.00e+00
HERC2P9	0.00e+00	2.92e-01	0.576	0.337	0.00e+00
HERC3	0.00e+00	2.68e-01	0.724	0.477	0.00e+00
HERC4	0.00e+00	5.56e-01	0.953	0.699	0.00e+00
HEXA	0.00e+00	3.02e-01	0.552	0.336	0.00e+00
HIBADH	0.00e+00	3.34e-01	0.677	0.451	0.00e+00
HIBCH	0.00e+00	3.63e-01	0.863	0.62	0.00e+00
HIPK3	0.00e+00	3.05e-01	0.685	0.46	0.00e+00
HIVEP2	0.00e+00	3.73e-01	0.937	0.739	0.00e+00
HIVEP3	0.00e+00	5.91e-01	0.971	0.827	0.00e+00
HK1	0.00e+00	3.46e-01	0.763	0.551	0.00e+00
HLA-DMA	0.00e+00	2.59e-01	0.297	0.133	0.00e+00
HLA-DPB2	0.00e+00	2.59e-01	0.284	0.131	0.00e+00
HLCS	0.00e+00	4.22e-01	0.86	0.631	0.00e+00
HM13	0.00e+00	3.60e-01	0.701	0.492	0.00e+00
HMBOX1	0.00e+00	3.78e-01	0.843	0.581	0.00e+00
HMG20A	0.00e+00	3.65e-01	0.753	0.509	0.00e+00
HMGB1	0.00e+00	5.57e-01	0.937	0.697	0.00e+00
HMGCLL1	0.00e+00	5.50e-01	0.829	0.545	0.00e+00
HMGCR	0.00e+00	3.45e-01	0.777	0.543	0.00e+00
HMGCS1	0.00e+00	3.50e-01	0.676	0.477	0.00e+00
HNRNPC	0.00e+00	3.85e-01	0.86	0.598	0.00e+00

HNRNPH1	0.00e+00	2.78e-01	0.789	0.502	0.00e+00
HNRNPLL	0.00e+00	3.99e-01	0.788	0.538	0.00e+00
HNRNPU	0.00e+00	4.06e-01	0.908	0.623	0.00e+00
HOMER1	0.00e+00	2.59e-01	0.938	0.72	0.00e+00
HOOK3	0.00e+00	4.08e-01	0.871	0.626	0.00e+00
HP1BP3	0.00e+00	3.46e-01	0.884	0.631	0.00e+00
HPRT1	0.00e+00	4.68e-01	0.838	0.564	0.00e+00
HPYR1	0.00e+00	3.05e-01	0.33	0.166	0.00e+00
HS2ST1	0.00e+00	5.01e-01	0.898	0.613	0.00e+00
HSD17B12	0.00e+00	5.40e-01	0.817	0.516	0.00e+00
HSPA12A	0.00e+00	5.92e-01	0.969	0.734	0.00e+00
HTR7	0.00e+00	4.59e-01	0.288	0.102	0.00e+00
HTT	0.00e+00	4.46e-01	0.894	0.659	0.00e+00
HULC	0.00e+00	5.04e-01	0.554	0.312	0.00e+00
HUWE1	0.00e+00	4.58e-01	0.863	0.627	0.00e+00
HYDIN2	0.00e+00	4.37e-01	0.787	0.493	0.00e+00
IARS1	0.00e+00	4.33e-01	0.762	0.445	0.00e+00
IBTK	0.00e+00	3.15e-01	0.842	0.525	0.00e+00
ICA1	0.00e+00	4.45e-01	0.915	0.645	0.00e+00
ICA1L	0.00e+00	3.18e-01	0.948	0.716	0.00e+00
ICE1	0.00e+00	4.44e-01	0.826	0.579	0.00e+00
ICE2	0.00e+00	3.21e-01	0.655	0.42	0.00e+00
IDE	0.00e+00	3.32e-01	0.679	0.44	0.00e+00
IDS	0.00e+00	4.76e-01	0.93	0.686	0.00e+00
IFNAR2	0.00e+00	4.58e-01	0.582	0.346	0.00e+00
IFT172	0.00e+00	3.77e-01	0.76	0.52	0.00e+00

IFT43	0.00e+00	4.47e-01	0.759	0.45	0.00e+00
IFT52	0.00e+00	2.67e-01	0.512	0.326	0.00e+00
IFT74	0.00e+00	3.22e-01	0.558	0.348	0.00e+00
IFT80	0.00e+00	5.21e-01	0.743	0.41	0.00e+00
IFT88	0.00e+00	2.79e-01	0.651	0.442	0.00e+00
IGF1R	0.00e+00	2.96e-01	0.921	0.707	0.00e+00
IGF2R	0.00e+00	3.72e-01	0.651	0.46	0.00e+00
IGSF11	0.00e+00	4.05e-01	0.887	0.627	0.00e+00
IKZF2	0.00e+00	3.02e-01	0.367	0.187	0.00e+00
IL17RA	0.00e+00	4.61e-01	0.346	0.161	0.00e+00
IL1RAPL1	0.00e+00	2.75e-01	0.996	0.907	0.00e+00
IL1RAPL2	0.00e+00	1.24e+00	0.494	0.327	0.00e+00
ILKAP	0.00e+00	2.51e-01	0.682	0.469	0.00e+00
ILRUN	0.00e+00	3.61e-01	0.599	0.347	0.00e+00
IMMP1L	0.00e+00	3.15e-01	0.665	0.432	0.00e+00
IMMP2L	0.00e+00	4.57e-01	0.975	0.762	0.00e+00
ING5	0.00e+00	2.79e-01	0.576	0.37	0.00e+00
INHBA-AS1	0.00e+00	8.01e-01	0.733	0.34	0.00e+00
INHCAP	0.00e+00	5.15e-01	0.562	0.283	0.00e+00
INO80	0.00e+00	3.33e-01	0.801	0.56	0.00e+00
INPP1	0.00e+00	2.51e-01	0.585	0.377	0.00e+00
INPP4A	0.00e+00	4.51e-01	0.924	0.691	0.00e+00
INPP4B	0.00e+00	4.07e-01	0.9	0.701	0.00e+00
INPP5B	0.00e+00	3.51e-01	0.69	0.467	0.00e+00
INSR	0.00e+00	3.72e-01	0.822	0.586	0.00e+00
INTS10	0.00e+00	3.41e-01	0.809	0.567	0.00e+00

INTS3	0.00e+00	2.80e-01	0.634	0.406	0.00e+00
INTS6	0.00e+00	2.95e-01	0.792	0.548	0.00e+00
INTS6L	0.00e+00	6.45e-01	0.646	0.371	0.00e+00
INTS8	0.00e+00	2.88e-01	0.68	0.442	0.00e+00
INTU	0.00e+00	4.18e-01	0.86	0.588	0.00e+00
INVS	0.00e+00	4.48e-01	0.896	0.621	0.00e+00
IP6K1	0.00e+00	3.46e-01	0.728	0.506	0.00e+00
IPO11	0.00e+00	3.43e-01	0.709	0.466	0.00e+00
IPO8	0.00e+00	2.87e-01	0.607	0.393	0.00e+00
IPO9	0.00e+00	3.74e-01	0.777	0.549	0.00e+00
IQCA1	0.00e+00	5.43e-01	0.687	0.508	0.00e+00
IQCB1	0.00e+00	3.01e-01	0.799	0.549	0.00e+00
IQCJ	0.00e+00	5.20e-01	0.897	0.472	0.00e+00
IQCJ-SCHIP1	0.00e+00	-8.43e-01	0.019	0.375	0.00e+00
IQGAP1	0.00e+00	2.71e-01	0.705	0.501	0.00e+00
IQSEC1	0.00e+00	6.08e-01	0.917	0.673	0.00e+00
IQSEC2	0.00e+00	4.14e-01	0.812	0.583	0.00e+00
IQSEC3	0.00e+00	4.82e-01	0.729	0.473	0.00e+00
IRAG2	0.00e+00	8.49e-01	0.713	0.363	0.00e+00
IRAK1BP1	0.00e+00	4.77e-01	0.876	0.611	0.00e+00
IREB2	0.00e+00	2.91e-01	0.726	0.5	0.00e+00
IRF1-AS1	0.00e+00	3.71e-01	0.417	0.211	0.00e+00
ITCH	0.00e+00	3.99e-01	0.85	0.619	0.00e+00
ITFG1	0.00e+00	6.17e-01	0.972	0.772	0.00e+00
ITGA9	0.00e+00	8.13e-01	0.796	0.537	0.00e+00
ITGA9-AS1	0.00e+00	3.18e-01	0.708	0.408	0.00e+00

ITGB3BP	0.00e+00	3.09e-01	0.614	0.398	0.00e+00
ITIH4	0.00e+00	3.02e-01	0.421	0.242	0.00e+00
ITPK1	0.00e+00	3.49e-01	0.546	0.347	0.00e+00
ITPR1	0.00e+00	2.81e-01	0.809	0.592	0.00e+00
ITPRID2	0.00e+00	4.87e-01	0.645	0.366	0.00e+00
ITSN1	0.00e+00	3.59e-01	0.898	0.679	0.00e+00
ITSN2	0.00e+00	2.77e-01	0.842	0.626	0.00e+00
IWS1	0.00e+00	3.69e-01	0.65	0.414	0.00e+00
JAG1	0.00e+00	3.58e-01	0.49	0.274	0.00e+00
JAK1	0.00e+00	5.04e-01	0.949	0.639	0.00e+00
JAK2	0.00e+00	6.83e-01	0.849	0.558	0.00e+00
JAKMIP1	0.00e+00	5.19e-01	0.888	0.665	0.00e+00
JAKMIP2	0.00e+00	5.87e-01	0.96	0.739	0.00e+00
JAKMIP3	0.00e+00	4.54e-01	0.688	0.441	0.00e+00
JAM3	0.00e+00	3.42e-01	0.802	0.548	0.00e+00
JAZF1	0.00e+00	4.91e-01	0.98	0.784	0.00e+00
JMJD1C	0.00e+00	3.94e-01	0.992	0.875	0.00e+00
JPH3	0.00e+00	3.86e-01	0.7	0.511	0.00e+00
JPH4	0.00e+00	3.94e-01	0.876	0.665	0.00e+00
JPX	0.00e+00	2.65e-01	0.889	0.616	0.00e+00
KALRN	0.00e+00	3.74e-01	0.994	0.927	0.00e+00
KANSL1	0.00e+00	5.23e-01	0.973	0.613	0.00e+00
KANSL1L	0.00e+00	2.72e-01	0.772	0.555	0.00e+00
KANTR	0.00e+00	6.09e-01	0.854	0.511	0.00e+00
KAT6A	0.00e+00	3.82e-01	0.803	0.564	0.00e+00
KAT6B	0.00e+00	5.47e-01	0.918	0.57	0.00e+00

KAZN	0.00e+00	1.19e+00	0.998	0.898	0.00e+00
KAZN-AS1	0.00e+00	3.11e-01	0.429	0.243	0.00e+00
KCMF1	0.00e+00	3.06e-01	0.691	0.462	0.00e+00
KCNB1	0.00e+00	3.85e-01	0.919	0.682	0.00e+00
KCNC2	0.00e+00	4.61e-01	0.813	0.59	0.00e+00
KCNC4	0.00e+00	3.82e-01	0.575	0.328	0.00e+00
KCND2	0.00e+00	1.11e+00	0.951	0.829	0.00e+00
KCND3	0.00e+00	7.11e-01	0.922	0.678	0.00e+00
KCNH3	0.00e+00	3.63e-01	0.792	0.558	0.00e+00
KCNH7	0.00e+00	8.06e-01	0.918	0.812	0.00e+00
KCNIP2	0.00e+00	4.28e-01	0.64	0.363	0.00e+00
KCNIP4	0.00e+00	6.83e-01	0.998	0.679	0.00e+00
KCNJ3	0.00e+00	5.87e-01	0.966	0.735	0.00e+00
KCNJ6	0.00e+00	5.23e-01	0.915	0.719	0.00e+00
KCNK1	0.00e+00	4.39e-01	0.839	0.567	0.00e+00
KCNK2	0.00e+00	1.14e+00	0.521	0.206	0.00e+00
KCNMA1	0.00e+00	6.60e-01	0.998	0.876	0.00e+00
KCNMB4	0.00e+00	4.48e-01	0.814	0.582	0.00e+00
KCNN2	0.00e+00	5.13e-01	0.769	0.559	0.00e+00
KCNN3	0.00e+00	5.30e-01	0.823	0.6	0.00e+00
KCNQ1OT1	0.00e+00	4.22e-01	0.835	0.69	0.00e+00
KCNQ2	0.00e+00	5.47e-01	0.848	0.549	0.00e+00
KCNQ3	0.00e+00	7.28e-01	0.953	0.791	0.00e+00
KCNQ5	0.00e+00	4.08e-01	0.966	0.88	0.00e+00
KCNT2	0.00e+00	4.15e-01	0.861	0.691	0.00e+00
KCTD1	0.00e+00	4.39e-01	0.881	0.626	0.00e+00

KCTD16	0.00e+00	3.59e-01	0.963	0.872	0.00e+00
KCTD3	0.00e+00	2.61e-01	0.686	0.455	0.00e+00
KCTD4	0.00e+00	4.64e-01	0.454	0.209	0.00e+00
KCTD8	0.00e+00	1.60e+00	0.738	0.449	0.00e+00
KCTD9	0.00e+00	3.13e-01	0.378	0.179	0.00e+00
KDM1A	0.00e+00	2.84e-01	0.769	0.517	0.00e+00
KDM2A	0.00e+00	5.00e-01	0.871	0.619	0.00e+00
KDM3B	0.00e+00	3.09e-01	0.712	0.484	0.00e+00
KDM4B	0.00e+00	4.04e-01	0.725	0.528	0.00e+00
KDM4C	0.00e+00	5.34e-01	0.95	0.679	0.00e+00
KDM5A	0.00e+00	4.60e-01	0.862	0.592	0.00e+00
KDM6A	0.00e+00	2.98e-01	0.801	0.553	0.00e+00
KHDC4	0.00e+00	2.98e-01	0.547	0.34	0.00e+00
KHDRBS1	0.00e+00	3.06e-01	0.747	0.534	0.00e+00
KIAA0319	0.00e+00	5.33e-01	0.871	0.626	0.00e+00
KIAA0319L	0.00e+00	4.50e-01	0.87	0.604	0.00e+00
KIAA0408	0.00e+00	4.27e-01	0.62	0.338	0.00e+00
KIAA0586	0.00e+00	3.30e-01	0.737	0.497	0.00e+00
KIAA0825	0.00e+00	6.13e-01	0.953	0.729	0.00e+00
KIAA0895	0.00e+00	2.57e-01	0.541	0.345	0.00e+00
KIAA0930	0.00e+00	5.98e-01	0.916	0.631	0.00e+00
KIAA1109	0.00e+00	3.61e-01	0.949	0.747	0.00e+00
KIAA1328	0.00e+00	6.34e-01	0.925	0.673	0.00e+00
KIAA1549	0.00e+00	6.26e-01	0.849	0.608	0.00e+00
KIAA1841	0.00e+00	4.54e-01	0.864	0.608	0.00e+00
KIAA1958	0.00e+00	1.01e+00	0.687	0.288	0.00e+00

KIAA2026	0.00e+00	4.54e-01	0.88	0.609	0.00e+00
KIDINS220	0.00e+00	4.09e-01	0.905	0.691	0.00e+00
KIF16B	0.00e+00	5.04e-01	0.808	0.548	0.00e+00
KIF1B	0.00e+00	5.17e-01	0.981	0.828	0.00e+00
KIF21A	0.00e+00	3.31e-01	0.939	0.723	0.00e+00
KIF3A	0.00e+00	2.76e-01	0.93	0.709	0.00e+00
KIF3C	0.00e+00	2.80e-01	0.753	0.569	0.00e+00
KIF5A	0.00e+00	3.60e-01	0.786	0.578	0.00e+00
KIF5C	0.00e+00	4.34e-01	0.96	0.611	0.00e+00
KIF9-AS1	0.00e+00	5.04e-01	0.863	0.535	0.00e+00
KIFAP3	0.00e+00	4.48e-01	0.935	0.712	0.00e+00
KIFC2	0.00e+00	3.26e-01	0.788	0.551	0.00e+00
KIRREL1	0.00e+00	3.17e-01	0.178	0.039	0.00e+00
KIRREL3	0.00e+00	5.35e-01	0.955	0.846	0.00e+00
KITLG	0.00e+00	4.25e-01	0.572	0.389	0.00e+00
KIZ	0.00e+00	3.20e-01	0.699	0.467	0.00e+00
KLC1	0.00e+00	3.74e-01	0.886	0.624	0.00e+00
KLHDC10	0.00e+00	4.61e-01	0.874	0.628	0.00e+00
KLHDC8A	0.00e+00	3.61e-01	0.355	0.149	0.00e+00
KLHL13	0.00e+00	6.05e-01	0.461	0.216	0.00e+00
KLHL2	0.00e+00	4.45e-01	0.841	0.589	0.00e+00
KLHL20	0.00e+00	3.02e-01	0.502	0.319	0.00e+00
KLHL22	0.00e+00	4.93e-01	0.724	0.497	0.00e+00
KLHL23	0.00e+00	3.53e-01	0.822	0.576	0.00e+00
KLHL24	0.00e+00	3.81e-01	0.826	0.574	0.00e+00
KLHL3	0.00e+00	3.57e-01	0.886	0.606	0.00e+00

KLHL4	0.00e+00	6.01e-01	0.577	0.359	0.00e+00
KLHL5	0.00e+00	8.86e-01	0.818	0.475	0.00e+00
KLHL7	0.00e+00	3.62e-01	0.796	0.543	0.00e+00
KLK7	0.00e+00	3.41e-01	0.254	0.075	0.00e+00
KLRD1	0.00e+00	5.49e-01	0.512	0.286	0.00e+00
KMT2A	0.00e+00	4.82e-01	0.945	0.724	0.00e+00
KMT2C	0.00e+00	4.26e-01	0.954	0.754	0.00e+00
KMT2E	0.00e+00	3.69e-01	0.934	0.715	0.00e+00
KMT5B	0.00e+00	4.20e-01	0.779	0.55	0.00e+00
KNDC1	0.00e+00	4.92e-01	0.794	0.573	0.00e+00
KPNA1	0.00e+00	2.76e-01	0.859	0.609	0.00e+00
KPNA3	0.00e+00	3.24e-01	0.826	0.606	0.00e+00
KPNA4	0.00e+00	3.34e-01	0.679	0.46	0.00e+00
KSR2	0.00e+00	5.96e-01	0.98	0.788	0.00e+00
KTN1	0.00e+00	3.10e-01	0.915	0.65	0.00e+00
KTN1-AS1	0.00e+00	4.03e-01	0.474	0.27	0.00e+00
KYAT1	0.00e+00	4.20e-01	0.62	0.357	0.00e+00
L2HGDH	0.00e+00	3.15e-01	0.718	0.488	0.00e+00
L3MBTL4	0.00e+00	6.86e-01	0.587	0.449	0.00e+00
LAMA3	0.00e+00	5.94e-01	0.288	0.132	0.00e+00
LAMB1	0.00e+00	4.13e-01	0.767	0.531	0.00e+00
LAMTOR5-AS1	0.00e+00	4.12e-01	0.575	0.31	0.00e+00
LANCL1	0.00e+00	3.44e-01	0.757	0.51	0.00e+00
LANCL2	0.00e+00	4.48e-01	0.811	0.575	0.00e+00
LARGE1	0.00e+00	5.78e-01	0.969	0.595	0.00e+00
LARP1	0.00e+00	4.51e-01	0.853	0.642	0.00e+00

LARP1B	0.00e+00	4.21e-01	0.919	0.685	0.00e+00
LARP4	0.00e+00	3.75e-01	0.677	0.449	0.00e+00
LARP4B	0.00e+00	3.96e-01	0.848	0.603	0.00e+00
LARS1	0.00e+00	4.47e-01	0.754	0.433	0.00e+00
LARS2	0.00e+00	3.09e-01	0.664	0.447	0.00e+00
LATS1	0.00e+00	3.39e-01	0.746	0.506	0.00e+00
LCLAT1	0.00e+00	2.86e-01	0.731	0.494	0.00e+00
LCMT1	0.00e+00	4.57e-01	0.696	0.441	0.00e+00
LCOR	0.00e+00	5.21e-01	0.928	0.659	0.00e+00
LCORL	0.00e+00	4.47e-01	0.762	0.57	0.00e+00
LDAH	0.00e+00	4.66e-01	0.727	0.467	0.00e+00
LDB2	0.00e+00	9.35e-01	0.89	0.741	0.00e+00
LDLR	0.00e+00	3.26e-01	0.383	0.207	0.00e+00
LDLRAD3	0.00e+00	4.25e-01	0.422	0.242	0.00e+00
LEMD3	0.00e+00	3.27e-01	0.699	0.454	0.00e+00
LENG8	0.00e+00	3.92e-01	0.8	0.508	0.00e+00
LEPR	0.00e+00	4.12e-01	0.579	0.351	0.00e+00
LGI1	0.00e+00	4.88e-01	0.661	0.377	0.00e+00
LGR5	0.00e+00	4.79e-01	0.154	0.035	0.00e+00
LHFPL2	0.00e+00	4.14e-01	0.393	0.218	0.00e+00
LHFPL3	0.00e+00	9.13e-01	0.443	0.248	0.00e+00
LHFPL4	0.00e+00	3.66e-01	0.781	0.573	0.00e+00
LIMCH1	0.00e+00	4.95e-01	0.993	0.858	0.00e+00
LIN7A	0.00e+00	6.47e-01	0.833	0.581	0.00e+00
LINC00159	0.00e+00	5.42e-01	0.577	0.33	0.00e+00
LINC00205	0.00e+00	2.88e-01	0.496	0.305	0.00e+00

LINC00271	0.00e+00	4.18e-01	0.51	0.307	0.00e+00
LINC00276	0.00e+00	5.09e-01	0.631	0.383	0.00e+00
LINC00342	0.00e+00	4.72e-01	0.754	0.417	0.00e+00
LINC00461	0.00e+00	3.63e-01	0.953	0.721	0.00e+00
LINC00476	0.00e+00	4.12e-01	0.693	0.441	0.00e+00
LINC00506	0.00e+00	5.98e-01	0.609	0.33	0.00e+00
LINC00535	0.00e+00	3.60e-01	0.613	0.386	0.00e+00
LINC00551	0.00e+00	4.74e-01	0.5	0.255	0.00e+00
LINC00571	0.00e+00	4.94e-01	0.481	0.268	0.00e+00
LINC00598	0.00e+00	6.11e-01	0.384	0.141	0.00e+00
LINC00630	0.00e+00	4.94e-01	0.67	0.377	0.00e+00
LINC00632	0.00e+00	5.08e-01	0.995	0.804	0.00e+00
LINC00662	0.00e+00	5.21e-01	0.716	0.433	0.00e+00
LINC00869	0.00e+00	2.68e-01	0.312	0.151	0.00e+00
LINC00882	0.00e+00	6.78e-01	0.972	0.593	0.00e+00
LINC00884	0.00e+00	4.47e-01	0.588	0.328	0.00e+00
LINC00894	0.00e+00	5.64e-01	0.774	0.463	0.00e+00
LINC00923	0.00e+00	5.74e-01	0.63	0.428	0.00e+00
LINC00964	0.00e+00	2.80e-01	0.247	0.1	0.00e+00
LINC00970	0.00e+00	3.00e-01	0.557	0.35	0.00e+00
LINC01004	0.00e+00	5.84e-01	0.786	0.456	0.00e+00
LINC01006	0.00e+00	4.70e-01	0.593	0.332	0.00e+00
LINC01118	0.00e+00	6.31e-01	0.511	0.238	0.00e+00
LINC01138	0.00e+00	4.28e-01	0.523	0.316	0.00e+00
LINC01184	0.00e+00	4.98e-01	0.894	0.544	0.00e+00
LINC01197	0.00e+00	3.22e-01	0.746	0.478	0.00e+00

LINC01266	0.00e+00	6.70e-01	0.29	0.14	0.00e+00
LINC01278	0.00e+00	7.14e-01	0.949	0.511	0.00e+00
LINC01284	0.00e+00	3.73e-01	0.47	0.271	0.00e+00
LINC01320	0.00e+00	5.53e-01	0.263	0.106	0.00e+00
LINC01322	0.00e+00	1.33e+00	0.906	0.527	0.00e+00
LINC01331	0.00e+00	1.35e+00	0.624	0.33	0.00e+00
LINC01374	0.00e+00	4.36e-01	0.245	0.103	0.00e+00
LINC01376	0.00e+00	5.21e-01	0.576	0.314	0.00e+00
LINC01414	0.00e+00	5.00e-01	0.643	0.401	0.00e+00
LINC01473	0.00e+00	7.64e-01	0.895	0.482	0.00e+00
LINC01500	0.00e+00	6.73e-01	0.382	0.179	0.00e+00
LINC01551	0.00e+00	3.80e-01	0.699	0.436	0.00e+00
LINC01572	0.00e+00	2.75e-01	0.443	0.235	0.00e+00
LINC01588	0.00e+00	3.33e-01	0.429	0.245	0.00e+00
LINC01622	0.00e+00	7.02e-01	0.453	0.173	0.00e+00
LINC01748	0.00e+00	5.89e-01	0.374	0.161	0.00e+00
LINC01771	0.00e+00	2.89e-01	0.31	0.145	0.00e+00
LINC01776	0.00e+00	4.53e-01	0.573	0.323	0.00e+00
LINC01821	0.00e+00	2.01e+00	0.417	0.089	0.00e+00
LINC01881	0.00e+00	2.98e-01	0.462	0.253	0.00e+00
LINC01885	0.00e+00	5.62e-01	0.56	0.322	0.00e+00
LINC01903	0.00e+00	2.80e-01	0.133	0.032	0.00e+00
LINC01951	0.00e+00	2.86e-01	0.179	0.059	0.00e+00
LINC02018	0.00e+00	2.68e-01	0.626	0.381	0.00e+00
LINC02062	0.00e+00	4.74e-01	0.705	0.414	0.00e+00
LINC02175	0.00e+00	5.73e-01	0.621	0.313	0.00e+00

LINC02197	0.00e+00	3.89e-01	0.218	0.084	0.00e+00
LINC02210	0.00e+00	4.26e-01	0.629	0.357	0.00e+00
LINC02223	0.00e+00	4.44e-01	0.601	0.357	0.00e+00
LINC02237	0.00e+00	5.55e-01	0.283	0.112	0.00e+00
LINC02245	0.00e+00	4.85e-01	0.773	0.426	0.00e+00
LINC02246	0.00e+00	4.04e-01	0.406	0.212	0.00e+00
LINC02346	0.00e+00	6.08e-01	0.523	0.281	0.00e+00
LINC02389	0.00e+00	6.41e-01	0.778	0.47	0.00e+00
LINC02398	0.00e+00	4.08e-01	0.635	0.409	0.00e+00
LINC02595	0.00e+00	2.84e-01	0.459	0.263	0.00e+00
LINC02609	0.00e+00	7.13e-01	0.62	0.295	0.00e+00
LINC02615	0.00e+00	3.83e-01	0.406	0.222	0.00e+00
LINC02641	0.00e+00	5.54e-01	0.47	0.251	0.00e+00
LINC02646	0.00e+00	4.07e-01	0.394	0.207	0.00e+00
LINC02653	0.00e+00	8.22e-01	0.311	0.095	0.00e+00
LINC02691	0.00e+00	5.74e-01	0.26	0.08	0.00e+00
LINC02693	0.00e+00	6.32e-01	0.771	0.422	0.00e+00
LINC02755	0.00e+00	8.53e-01	0.694	0.331	0.00e+00
LINC02798	0.00e+00	5.66e-01	0.6	0.358	0.00e+00
LINC02803	0.00e+00	3.48e-01	0.464	0.257	0.00e+00
LINS1	0.00e+00	2.92e-01	0.505	0.317	0.00e+00
LIPA	0.00e+00	7.37e-01	0.822	0.552	0.00e+00
LIPE-AS1	0.00e+00	6.45e-01	0.764	0.451	0.00e+00
LIX1-AS1	0.00e+00	3.72e-01	0.498	0.296	0.00e+00
LMBRD1	0.00e+00	4.13e-01	0.907	0.634	0.00e+00
LMCD1-AS1	0.00e+00	6.28e-01	0.586	0.32	0.00e+00

LMF1	0.00e+00	3.92e-01	0.683	0.461	0.00e+00
LMO3	0.00e+00	8.36e-01	0.931	0.628	0.00e+00
LMO7	0.00e+00	3.35e-01	0.923	0.647	0.00e+00
LMTK2	0.00e+00	3.65e-01	0.879	0.66	0.00e+00
LMTK3	0.00e+00	3.83e-01	0.729	0.51	0.00e+00
LNPK	0.00e+00	3.70e-01	0.719	0.436	0.00e+00
LONP2	0.00e+00	4.66e-01	0.913	0.655	0.00e+00
LONRF1	0.00e+00	2.56e-01	0.626	0.412	0.00e+00
LONRF2	0.00e+00	7.44e-01	0.939	0.689	0.00e+00
LPIN1	0.00e+00	3.78e-01	0.778	0.536	0.00e+00
LRATD1	0.00e+00	4.09e-01	0.54	0.304	0.00e+00
LRBA	0.00e+00	4.48e-01	0.95	0.722	0.00e+00
LRCH2	0.00e+00	4.90e-01	0.704	0.433	0.00e+00
LRCH3	0.00e+00	4.76e-01	0.845	0.589	0.00e+00
LRFN2	0.00e+00	5.08e-01	0.839	0.634	0.00e+00
LRFN5	0.00e+00	2.71e-01	0.984	0.884	0.00e+00
LRGUK	0.00e+00	4.53e-01	0.61	0.402	0.00e+00
LRIG2	0.00e+00	2.89e-01	0.604	0.403	0.00e+00
LRP12	0.00e+00	6.23e-01	0.836	0.555	0.00e+00
LRP1B	0.00e+00	6.35e-01	0.993	0.935	0.00e+00
LRP6	0.00e+00	4.11e-01	0.758	0.464	0.00e+00
LRP8	0.00e+00	3.89e-01	0.552	0.369	0.00e+00
LRPPRC	0.00e+00	3.39e-01	0.833	0.579	0.00e+00
LRRC37A17P	0.00e+00	4.65e-01	0.578	0.321	0.00e+00
LRRC37A3	0.00e+00	2.97e-01	0.722	0.488	0.00e+00
LRRC37B	0.00e+00	3.96e-01	0.748	0.506	0.00e+00

LRRRC39	0.00e+00	4.66e-01	0.415	0.225	0.00e+00
LRRRC49	0.00e+00	3.54e-01	0.864	0.603	0.00e+00
LRRRC4B	0.00e+00	5.13e-01	0.764	0.544	0.00e+00
LRRRC4C	0.00e+00	6.87e-01	0.998	0.945	0.00e+00
LRRRC6	0.00e+00	4.67e-01	0.82	0.532	0.00e+00
LRRRC7	0.00e+00	4.76e-01	0.999	0.956	0.00e+00
LRRRC8B	0.00e+00	2.87e-01	0.894	0.653	0.00e+00
LRRFIP1	0.00e+00	2.78e-01	0.94	0.752	0.00e+00
LRRFIP2	0.00e+00	4.53e-01	0.925	0.673	0.00e+00
LRRK1	0.00e+00	4.64e-01	0.776	0.552	0.00e+00
LRRN1	0.00e+00	3.67e-01	0.75	0.52	0.00e+00
LRRN2	0.00e+00	6.47e-01	0.788	0.54	0.00e+00
LRRTM3	0.00e+00	6.40e-01	0.932	0.711	0.00e+00
LRRTM4	0.00e+00	6.37e-01	0.988	0.96	0.00e+00
LRSAM1	0.00e+00	3.86e-01	0.658	0.457	0.00e+00
LSAMP	0.00e+00	1.18e+00	0.992	0.965	0.00e+00
LSM14A	0.00e+00	4.85e-01	0.828	0.513	0.00e+00
LSP1P5	0.00e+00	3.48e-01	0.517	0.281	0.00e+00
LSS	0.00e+00	3.10e-01	0.453	0.265	0.00e+00
LTBP4	0.00e+00	3.69e-01	0.576	0.394	0.00e+00
LUC7L	0.00e+00	3.41e-01	0.826	0.592	0.00e+00
LUC7L2	0.00e+00	5.36e-01	0.945	0.59	0.00e+00
LUZP1	0.00e+00	3.64e-01	0.779	0.546	0.00e+00
LUZP2	0.00e+00	8.77e-01	0.892	0.769	0.00e+00
LY6H	0.00e+00	3.87e-01	0.795	0.524	0.00e+00
LYPLAL1	0.00e+00	3.87e-01	0.767	0.497	0.00e+00

LYRM4	0.00e+00	5.38e-01	0.745	0.485	0.00e+00
LYST	0.00e+00	6.49e-01	0.937	0.686	0.00e+00
LZTS3	0.00e+00	3.48e-01	0.685	0.447	0.00e+00
M1AP	0.00e+00	3.70e-01	0.347	0.163	0.00e+00
MACF1	0.00e+00	5.56e-01	0.986	0.866	0.00e+00
MACIR	0.00e+00	4.04e-01	0.578	0.321	0.00e+00
MACO1	0.00e+00	4.16e-01	0.796	0.482	0.00e+00
MACROD2	0.00e+00	7.90e-01	0.998	0.937	0.00e+00
MACROH2A1	0.00e+00	5.10e-01	0.781	0.43	0.00e+00
MACROH2A2	0.00e+00	2.95e-01	0.424	0.244	0.00e+00
MADD	0.00e+00	2.98e-01	0.664	0.463	0.00e+00
MAGED1	0.00e+00	3.86e-01	0.837	0.593	0.00e+00
MAGI2	0.00e+00	5.01e-01	0.995	0.943	0.00e+00
MAGI2-AS3	0.00e+00	3.15e-01	0.567	0.324	0.00e+00
MAGI3	0.00e+00	7.80e-01	0.926	0.701	0.00e+00
MAMDC2	0.00e+00	5.17e-01	0.521	0.253	0.00e+00
MAML1	0.00e+00	2.90e-01	0.511	0.32	0.00e+00
MAML3	0.00e+00	8.31e-01	0.82	0.468	0.00e+00
MAMLD1	0.00e+00	3.50e-01	0.63	0.383	0.00e+00
MAN1A2	0.00e+00	2.93e-01	0.939	0.718	0.00e+00
MAN2C1	0.00e+00	2.91e-01	0.641	0.422	0.00e+00
MAP2	0.00e+00	7.15e-01	0.999	0.925	0.00e+00
MAP2K4	0.00e+00	5.43e-01	0.957	0.703	0.00e+00
MAP2K5	0.00e+00	3.94e-01	0.951	0.725	0.00e+00
MAP3K1	0.00e+00	3.67e-01	0.376	0.174	0.00e+00
MAP3K13	0.00e+00	2.87e-01	0.899	0.668	0.00e+00

MAP3K2	0.00e+00	4.82e-01	0.907	0.637	0.00e+00
MAP3K21	0.00e+00	4.20e-01	0.598	0.344	0.00e+00
MAP3K3	0.00e+00	3.11e-01	0.657	0.447	0.00e+00
MAP3K5	0.00e+00	5.02e-01	0.961	0.728	0.00e+00
MAP3K7	0.00e+00	3.52e-01	0.817	0.557	0.00e+00
MAP3K9	0.00e+00	2.90e-01	0.658	0.455	0.00e+00
MAP4	0.00e+00	4.83e-01	0.827	0.598	0.00e+00
MAP4K3	0.00e+00	6.30e-01	0.948	0.704	0.00e+00
MAP4K3-DT	0.00e+00	7.83e-01	0.911	0.526	0.00e+00
MAP4K4	0.00e+00	3.13e-01	0.913	0.714	0.00e+00
MAP4K5	0.00e+00	4.09e-01	0.917	0.664	0.00e+00
MAP6	0.00e+00	4.54e-01	0.853	0.619	0.00e+00
MAP7	0.00e+00	3.42e-01	0.979	0.788	0.00e+00
MAP7D2	0.00e+00	3.11e-01	0.76	0.549	0.00e+00
MAPK1	0.00e+00	2.67e-01	0.928	0.729	0.00e+00
MAPK10	0.00e+00	2.82e-01	0.996	0.874	0.00e+00
MAPK14	0.00e+00	3.76e-01	0.86	0.609	0.00e+00
MAPK8	0.00e+00	4.28e-01	0.954	0.735	0.00e+00
MAPK8IP3	0.00e+00	4.91e-01	0.851	0.633	0.00e+00
MAPKAP1	0.00e+00	4.01e-01	0.851	0.597	0.00e+00
MAPKBP1	0.00e+00	5.11e-01	0.826	0.574	0.00e+00
MAPRE2	0.00e+00	6.22e-01	0.949	0.724	0.00e+00
MAPRE3	0.00e+00	4.18e-01	0.752	0.516	0.00e+00
MAPT	0.00e+00	6.01e-01	0.967	0.627	0.00e+00
MARCHF1	0.00e+00	7.16e-01	0.867	0.519	0.00e+00
MARCHF4	0.00e+00	4.16e-01	0.721	0.431	0.00e+00

MARCHF5	0.00e+00	2.88e-01	0.481	0.281	0.00e+00
MARCHF6	0.00e+00	3.44e-01	0.87	0.514	0.00e+00
MARCHF7	0.00e+00	5.07e-01	0.79	0.447	0.00e+00
MARCHF8	0.00e+00	3.97e-01	0.508	0.289	0.00e+00
MARF1	0.00e+00	2.90e-01	0.494	0.297	0.00e+00
MARK1	0.00e+00	5.64e-01	0.929	0.702	0.00e+00
MARK2	0.00e+00	3.24e-01	0.731	0.527	0.00e+00
MARK3	0.00e+00	4.43e-01	0.924	0.702	0.00e+00
MARK4	0.00e+00	3.80e-01	0.692	0.516	0.00e+00
MARS1	0.00e+00	3.13e-01	0.514	0.318	0.00e+00
MAST1	0.00e+00	3.56e-01	0.828	0.619	0.00e+00
MAST2	0.00e+00	3.16e-01	0.672	0.473	0.00e+00
MAST3	0.00e+00	3.61e-01	0.777	0.559	0.00e+00
MATN2	0.00e+00	6.62e-01	0.55	0.34	0.00e+00
MAX	0.00e+00	3.07e-01	0.73	0.502	0.00e+00
MBD2	0.00e+00	4.40e-01	0.676	0.427	0.00e+00
MBD5	0.00e+00	7.45e-01	0.992	0.862	0.00e+00
MBNL1	0.00e+00	5.55e-01	0.955	0.703	0.00e+00
MBNL2	0.00e+00	5.22e-01	0.974	0.763	0.00e+00
MBOAT7	0.00e+00	2.91e-01	0.583	0.38	0.00e+00
MBTD1	0.00e+00	3.11e-01	0.73	0.493	0.00e+00
MBTPS1	0.00e+00	3.31e-01	0.755	0.522	0.00e+00
MCCC1	0.00e+00	4.72e-01	0.785	0.52	0.00e+00
MCF2L	0.00e+00	2.99e-01	0.763	0.563	0.00e+00
MCF2L2	0.00e+00	5.06e-01	0.946	0.701	0.00e+00
MCPH1	0.00e+00	5.37e-01	0.874	0.594	0.00e+00

MCPH1-AS1	0.00e+00	3.57e-01	0.63	0.381	0.00e+00
MCTP1	0.00e+00	7.38e-01	0.952	0.75	0.00e+00
MCU	0.00e+00	3.73e-01	0.808	0.572	0.00e+00
MDGA2	0.00e+00	6.51e-01	0.995	0.908	0.00e+00
MDM2	0.00e+00	3.15e-01	0.618	0.393	0.00e+00
MDM4	0.00e+00	4.62e-01	0.829	0.543	0.00e+00
MDN1	0.00e+00	3.10e-01	0.833	0.609	0.00e+00
ME1	0.00e+00	5.24e-01	0.9	0.605	0.00e+00
MEAK7	0.00e+00	3.02e-01	0.463	0.271	0.00e+00
MECP2	0.00e+00	3.68e-01	0.712	0.487	0.00e+00
MED13	0.00e+00	4.00e-01	0.872	0.635	0.00e+00
MED13L	0.00e+00	3.80e-01	0.96	0.76	0.00e+00
MED15	0.00e+00	4.44e-01	0.752	0.52	0.00e+00
MED27	0.00e+00	5.86e-01	0.888	0.615	0.00e+00
MED28	0.00e+00	2.88e-01	0.513	0.321	0.00e+00
MED4	0.00e+00	2.74e-01	0.659	0.456	0.00e+00
MEF2C-AS1	0.00e+00	4.85e-01	0.918	0.586	0.00e+00
MEG3	0.00e+00	6.33e-01	1.0	0.97	0.00e+00
MEG8	0.00e+00	8.70e-01	0.996	0.745	0.00e+00
MEGF11	0.00e+00	6.16e-01	0.532	0.335	0.00e+00
MEGF9	0.00e+00	3.35e-01	0.808	0.584	0.00e+00
MEIS3	0.00e+00	6.52e-01	0.806	0.548	0.00e+00
MEMO1	0.00e+00	5.86e-01	0.925	0.594	0.00e+00
MEST	0.00e+00	2.86e-01	0.71	0.5	0.00e+00
METTTL15	0.00e+00	4.76e-01	0.864	0.57	0.00e+00
METTTL16	0.00e+00	3.62e-01	0.613	0.407	0.00e+00

METTL25	0.00e+00	2.68e-01	0.652	0.427	0.00e+00
METTL6	0.00e+00	3.14e-01	0.723	0.495	0.00e+00
METTL9	0.00e+00	2.53e-01	0.615	0.403	0.00e+00
MFAP3	0.00e+00	4.26e-01	0.704	0.469	0.00e+00
MFAP3L	0.00e+00	3.66e-01	0.581	0.377	0.00e+00
MFF	0.00e+00	2.69e-01	0.782	0.52	0.00e+00
MFHAS1	0.00e+00	2.63e-01	0.634	0.412	0.00e+00
MFN1	0.00e+00	2.51e-01	0.708	0.496	0.00e+00
MFSD11	0.00e+00	2.52e-01	0.634	0.428	0.00e+00
MFSD14C	0.00e+00	5.04e-01	0.832	0.538	0.00e+00
MFSD4A	0.00e+00	4.29e-01	0.708	0.474	0.00e+00
MFSD4B	0.00e+00	4.50e-01	0.841	0.479	0.00e+00
MFSD6	0.00e+00	4.80e-01	0.791	0.539	0.00e+00
MGA	0.00e+00	4.45e-01	0.825	0.581	0.00e+00
MGLL	0.00e+00	4.33e-01	0.612	0.409	0.00e+00
MGST1	0.00e+00	7.93e-01	0.75	0.426	0.00e+00
MGST3	0.00e+00	3.09e-01	0.785	0.53	0.00e+00
MIA2	0.00e+00	2.87e-01	0.763	0.493	0.00e+00
MIB1	0.00e+00	3.77e-01	0.905	0.676	0.00e+00
MICAL2	0.00e+00	6.47e-01	0.894	0.67	0.00e+00
MICAL3	0.00e+00	4.71e-01	0.954	0.784	0.00e+00
MICU1	0.00e+00	6.55e-01	0.963	0.753	0.00e+00
MICU2	0.00e+00	4.12e-01	0.891	0.627	0.00e+00
MICU3	0.00e+00	5.35e-01	0.941	0.667	0.00e+00
MIER1	0.00e+00	2.83e-01	0.707	0.485	0.00e+00
MIGA1	0.00e+00	2.93e-01	0.788	0.539	0.00e+00

MINAR1	0.00e+00	2.67e-01	0.189	0.057	0.00e+00
MINDY2	0.00e+00	3.94e-01	0.767	0.478	0.00e+00
MINDY3	0.00e+00	5.49e-01	0.814	0.476	0.00e+00
MIPOL1	0.00e+00	4.65e-01	0.892	0.634	0.00e+00
MIR100HG	0.00e+00	7.11e-01	0.959	0.64	0.00e+00
MIR124-1HG	0.00e+00	4.16e-01	0.874	0.509	0.00e+00
MIR137HG	0.00e+00	8.89e-01	0.969	0.831	0.00e+00
MIR181A1HG	0.00e+00	5.33e-01	0.691	0.484	0.00e+00
MIR2052HG	0.00e+00	6.78e-01	0.81	0.485	0.00e+00
MIR222HG	0.00e+00	6.46e-01	0.821	0.475	0.00e+00
MIR29B2CHG	0.00e+00	4.48e-01	0.877	0.524	0.00e+00
MIR31HG	0.00e+00	4.40e-01	0.266	0.104	0.00e+00
MIR3936HG	0.00e+00	5.23e-01	0.727	0.404	0.00e+00
MIR4435-2HG	0.00e+00	7.07e-01	0.873	0.532	0.00e+00
MIR4500HG	0.00e+00	7.30e-01	0.739	0.444	0.00e+00
MIR646HG	0.00e+00	9.43e-01	0.541	0.3	0.00e+00
MIR7-3HG	0.00e+00	4.59e-01	0.505	0.257	0.00e+00
MIR99AHG	0.00e+00	1.09e+00	0.971	0.829	0.00e+00
MKKS	0.00e+00	2.93e-01	0.584	0.374	0.00e+00
MKLN1	0.00e+00	6.32e-01	0.978	0.759	0.00e+00
MLLT10	0.00e+00	4.59e-01	0.953	0.697	0.00e+00
MLLT3	0.00e+00	5.92e-01	0.979	0.789	0.00e+00
MMADHC-DT	0.00e+00	4.45e-01	0.524	0.299	0.00e+00
MMP16	0.00e+00	7.20e-01	0.97	0.784	0.00e+00
MNAT1	0.00e+00	2.76e-01	0.927	0.719	0.00e+00
MON2	0.00e+00	4.27e-01	0.948	0.705	0.00e+00

MORC3	0.00e+00	3.55e-01	0.682	0.464	0.00e+00
MOSMO	0.00e+00	3.13e-01	0.813	0.506	0.00e+00
MOXD1	0.00e+00	6.34e-01	0.528	0.301	0.00e+00
MPDZ	0.00e+00	7.29e-01	0.953	0.699	0.00e+00
MPHOSPH8	0.00e+00	3.70e-01	0.895	0.702	0.00e+00
MPP6	0.00e+00	2.83e-01	0.822	0.613	0.00e+00
MPP7	0.00e+00	8.51e-01	0.659	0.395	0.00e+00
MPRIP	0.00e+00	3.08e-01	0.873	0.661	0.00e+00
MRAS	0.00e+00	2.81e-01	0.598	0.401	0.00e+00
MRE11	0.00e+00	4.26e-01	0.579	0.313	0.00e+00
MRNIP	0.00e+00	3.12e-01	0.583	0.363	0.00e+00
MROH1	0.00e+00	4.39e-01	0.809	0.58	0.00e+00
MRPL1	0.00e+00	2.88e-01	0.644	0.43	0.00e+00
MRPL41	0.00e+00	5.39e-01	0.82	0.513	0.00e+00
MRPL45P2	0.00e+00	3.81e-01	0.614	0.34	0.00e+00
MRPS30-DT	0.00e+00	3.20e-01	0.688	0.424	0.00e+00
MRPS31	0.00e+00	3.06e-01	0.615	0.394	0.00e+00
MRTFA	0.00e+00	6.41e-01	0.893	0.529	0.00e+00
MRTFB	0.00e+00	7.74e-01	0.966	0.572	0.00e+00
MSC-AS1	0.00e+00	1.35e+00	0.354	0.146	0.00e+00
MSH3	0.00e+00	4.82e-01	0.88	0.607	0.00e+00
MSL2	0.00e+00	2.69e-01	0.584	0.377	0.00e+00
MT-ATP6	0.00e+00	7.57e-01	0.852	0.573	0.00e+00
MT-CO1	0.00e+00	5.48e-01	0.918	0.743	0.00e+00
MT-CO2	0.00e+00	8.12e-01	0.917	0.634	0.00e+00
MT-CO3	0.00e+00	9.16e-01	0.921	0.702	0.00e+00

MT-CYB	0.00e+00	7.88e-01	0.88	0.647	0.00e+00
MT-ND1	0.00e+00	6.97e-01	0.773	0.512	0.00e+00
MT-ND2	0.00e+00	3.82e-01	0.742	0.52	0.00e+00
MT-ND3	0.00e+00	9.53e-01	0.879	0.529	0.00e+00
MT-ND4	0.00e+00	6.97e-01	0.867	0.692	0.00e+00
MT-RNR1	0.00e+00	6.16e-01	0.666	0.522	0.00e+00
MT-RNR2	0.00e+00	7.69e-01	0.859	0.766	0.00e+00
MTA3	0.00e+00	3.06e-01	0.903	0.693	0.00e+00
MTARC2	0.00e+00	3.51e-01	0.489	0.269	0.00e+00
MTDH	0.00e+00	3.67e-01	0.875	0.624	0.00e+00
MTERF1	0.00e+00	4.05e-01	0.86	0.611	0.00e+00
MTF2	0.00e+00	3.92e-01	0.863	0.606	0.00e+00
MTHFD1L	0.00e+00	3.11e-01	0.821	0.572	0.00e+00
MTHFD2L	0.00e+00	3.68e-01	0.631	0.402	0.00e+00
MTHFS	0.00e+00	3.04e-01	0.434	0.253	0.00e+00
MTMR1	0.00e+00	3.45e-01	0.8	0.557	0.00e+00
MTMR12	0.00e+00	3.22e-01	0.832	0.565	0.00e+00
MTMR3	0.00e+00	4.26e-01	0.827	0.551	0.00e+00
MTMR7	0.00e+00	4.45e-01	0.901	0.64	0.00e+00
MTOR	0.00e+00	2.97e-01	0.722	0.513	0.00e+00
MTPN	0.00e+00	3.06e-01	0.647	0.452	0.00e+00
MTR	0.00e+00	5.28e-01	0.878	0.597	0.00e+00
MTREX	0.00e+00	3.90e-01	0.755	0.457	0.00e+00
MTSS1	0.00e+00	6.35e-01	0.753	0.45	0.00e+00
MTSS2	0.00e+00	3.33e-01	0.521	0.295	0.00e+00
MTUS2	0.00e+00	3.41e-01	0.942	0.8	0.00e+00

MTX2	0.00e+00	3.48e-01	0.838	0.559	0.00e+00
MUC20-OT1	0.00e+00	6.40e-01	0.864	0.516	0.00e+00
MVB12B	0.00e+00	4.90e-01	0.805	0.548	0.00e+00
MVD	0.00e+00	3.49e-01	0.681	0.443	0.00e+00
MXD1	0.00e+00	3.18e-01	0.63	0.414	0.00e+00
MYB	0.00e+00	3.03e-01	0.214	0.078	0.00e+00
MYCBP2	0.00e+00	5.69e-01	0.992	0.856	0.00e+00
MYEF2	0.00e+00	3.87e-01	0.871	0.611	0.00e+00
MYO5A	0.00e+00	3.70e-01	0.97	0.796	0.00e+00
MYO9A	0.00e+00	4.90e-01	0.966	0.785	0.00e+00
MYRIP	0.00e+00	5.13e-01	0.793	0.658	0.00e+00
MYSM1	0.00e+00	3.77e-01	0.846	0.574	0.00e+00
MYT1L	0.00e+00	4.64e-01	0.992	0.899	0.00e+00
N4BP1	0.00e+00	3.55e-01	0.743	0.493	0.00e+00
N4BP2	0.00e+00	4.08e-01	0.482	0.273	0.00e+00
N4BP2L1	0.00e+00	2.64e-01	0.817	0.563	0.00e+00
N4BP2L2	0.00e+00	4.38e-01	0.988	0.766	0.00e+00
NAA15	0.00e+00	3.35e-01	0.784	0.541	0.00e+00
NAA16	0.00e+00	3.71e-01	0.73	0.461	0.00e+00
NAA25	0.00e+00	3.61e-01	0.839	0.584	0.00e+00
NAA35	0.00e+00	2.99e-01	0.738	0.503	0.00e+00
NAA50	0.00e+00	2.92e-01	0.66	0.444	0.00e+00
NAALAD2	0.00e+00	2.98e-01	0.65	0.402	0.00e+00
NAALADL2	0.00e+00	7.43e-01	0.852	0.602	0.00e+00
NAB1	0.00e+00	4.71e-01	0.665	0.371	0.00e+00
NAF1	0.00e+00	4.15e-01	0.658	0.392	0.00e+00

NALCN	0.00e+00	5.32e-01	0.972	0.754	0.00e+00
NAP1L1	0.00e+00	2.60e-01	0.917	0.689	0.00e+00
NAP1L4	0.00e+00	3.09e-01	0.674	0.418	0.00e+00
NAPB	0.00e+00	2.62e-01	0.764	0.561	0.00e+00
NARS2	0.00e+00	3.20e-01	0.571	0.37	0.00e+00
NAV1	0.00e+00	6.24e-01	0.94	0.719	0.00e+00
NAV2	0.00e+00	4.40e-01	0.97	0.799	0.00e+00
NAV3	0.00e+00	6.26e-01	0.997	0.916	0.00e+00
NBAS	0.00e+00	5.16e-01	0.971	0.717	0.00e+00
NBEA	0.00e+00	8.67e-01	0.998	0.939	0.00e+00
NBEAL1	0.00e+00	2.84e-01	0.843	0.613	0.00e+00
NBPF15	0.00e+00	3.72e-01	0.586	0.373	0.00e+00
NCAM1	0.00e+00	5.07e-01	0.991	0.862	0.00e+00
NCAM2	0.00e+00	8.46e-01	0.974	0.918	0.00e+00
NCAPG2	0.00e+00	4.03e-01	0.451	0.248	0.00e+00
NCEH1	0.00e+00	3.21e-01	0.742	0.525	0.00e+00
NCKAP1	0.00e+00	4.02e-01	0.931	0.698	0.00e+00
NCOA1	0.00e+00	5.31e-01	0.983	0.814	0.00e+00
NCOA2	0.00e+00	4.16e-01	0.926	0.688	0.00e+00
NCOA6	0.00e+00	3.46e-01	0.758	0.534	0.00e+00
NCOA7	0.00e+00	3.86e-01	0.909	0.671	0.00e+00
NCOR1	0.00e+00	3.14e-01	0.915	0.715	0.00e+00
NCOR2	0.00e+00	6.34e-01	0.817	0.613	0.00e+00
NDFIP1	0.00e+00	3.11e-01	0.93	0.694	0.00e+00
NDRG3	0.00e+00	3.48e-01	0.764	0.527	0.00e+00
NDST3	0.00e+00	7.06e-01	0.921	0.665	0.00e+00

NDUFA10	0.00e+00	3.03e-01	0.838	0.594	0.00e+00
NDUFAF2	0.00e+00	3.50e-01	0.738	0.494	0.00e+00
NDUFAF7	0.00e+00	3.18e-01	0.666	0.434	0.00e+00
NDUFS1	0.00e+00	3.49e-01	0.81	0.522	0.00e+00
NDUFS4	0.00e+00	2.68e-01	0.688	0.463	0.00e+00
NDUFV3	0.00e+00	2.95e-01	0.658	0.448	0.00e+00
NEBL	0.00e+00	4.95e-01	0.987	0.761	0.00e+00
NECAB1	0.00e+00	8.65e-01	0.908	0.709	0.00e+00
NECTIN3	0.00e+00	5.03e-01	0.65	0.406	0.00e+00
NEGR1	0.00e+00	1.14e+00	0.997	0.949	0.00e+00
NEK1	0.00e+00	4.40e-01	0.878	0.625	0.00e+00
NEK10	0.00e+00	4.88e-01	0.949	0.72	0.00e+00
NELL2	0.00e+00	3.50e-01	0.981	0.859	0.00e+00
NEO1	0.00e+00	6.11e-01	0.886	0.604	0.00e+00
NEPRO	0.00e+00	3.51e-01	0.577	0.342	0.00e+00
NETO2	0.00e+00	4.56e-01	0.634	0.449	0.00e+00
NEXMIF	0.00e+00	5.47e-01	0.868	0.627	0.00e+00
NF1	0.00e+00	3.67e-01	0.969	0.785	0.00e+00
NFASC	0.00e+00	5.92e-01	0.918	0.689	0.00e+00
NFAT5	0.00e+00	2.98e-01	0.958	0.743	0.00e+00
NFATC2IP	0.00e+00	5.01e-01	0.643	0.395	0.00e+00
NFE2L2	0.00e+00	2.73e-01	0.483	0.303	0.00e+00
NFIA	0.00e+00	7.80e-01	0.813	0.516	0.00e+00
NFKB1	0.00e+00	3.05e-01	0.667	0.439	0.00e+00
NFX1	0.00e+00	4.09e-01	0.816	0.57	0.00e+00
NFXL1	0.00e+00	3.08e-01	0.58	0.373	0.00e+00

NFYC	0.00e+00	3.84e-01	0.615	0.392	0.00e+00
NGLY1	0.00e+00	3.60e-01	0.702	0.448	0.00e+00
NHS	0.00e+00	4.84e-01	0.507	0.315	0.00e+00
NHSL2	0.00e+00	4.07e-01	0.723	0.474	0.00e+00
NIN	0.00e+00	5.22e-01	0.951	0.77	0.00e+00
NIPAL2	0.00e+00	6.11e-01	0.784	0.499	0.00e+00
NIPBL	0.00e+00	4.42e-01	0.925	0.689	0.00e+00
NIPSNAP2	0.00e+00	4.47e-01	0.663	0.385	0.00e+00
NKAIN2	0.00e+00	8.62e-01	0.95	0.923	0.00e+00
NKAIN3	0.00e+00	2.18e+00	0.866	0.56	0.00e+00
NKTR	0.00e+00	4.20e-01	0.956	0.74	0.00e+00
NLGN1	0.00e+00	4.66e-01	0.999	0.962	0.00e+00
NLGN4Y	0.00e+00	7.40e-01	0.979	0.715	0.00e+00
NMD3	0.00e+00	5.84e-01	0.848	0.58	0.00e+00
NME5	0.00e+00	4.60e-01	0.841	0.554	0.00e+00
NME7	0.00e+00	2.64e-01	0.924	0.678	0.00e+00
NMNAT2	0.00e+00	5.42e-01	0.962	0.766	0.00e+00
NMNAT3	0.00e+00	5.11e-01	0.658	0.397	0.00e+00
NMT2	0.00e+00	5.22e-01	0.742	0.483	0.00e+00
NNAT	0.00e+00	9.03e-01	0.718	0.452	0.00e+00
NOL10	0.00e+00	3.52e-01	0.817	0.568	0.00e+00
NOL4	0.00e+00	2.77e-01	0.914	0.685	0.00e+00
NOL4L	0.00e+00	3.21e-01	0.671	0.475	0.00e+00
NOP58	0.00e+00	2.55e-01	0.685	0.481	0.00e+00
NOS1AP	0.00e+00	7.66e-01	0.886	0.635	0.00e+00
NOVA1	0.00e+00	3.91e-01	0.951	0.72	0.00e+00

NPAS2	0.00e+00	5.71e-01	0.818	0.649	0.00e+00
NPAS3	0.00e+00	8.90e-01	0.935	0.804	0.00e+00
NPAT	0.00e+00	2.97e-01	0.545	0.344	0.00e+00
NPEPL1	0.00e+00	3.13e-01	0.57	0.353	0.00e+00
NPEPPS	0.00e+00	3.85e-01	0.875	0.627	0.00e+00
NPFFR2	0.00e+00	8.94e-01	0.316	0.106	0.00e+00
NPHP1	0.00e+00	2.54e-01	0.683	0.457	0.00e+00
NPHP3	0.00e+00	3.42e-01	0.509	0.286	0.00e+00
NPRL3	0.00e+00	3.88e-01	0.689	0.452	0.00e+00
NPTN	0.00e+00	4.55e-01	0.962	0.723	0.00e+00
NPTX1	0.00e+00	4.77e-01	0.794	0.502	0.00e+00
NPTXR	0.00e+00	3.18e-01	0.813	0.632	0.00e+00
NPY1R	0.00e+00	6.68e-01	0.692	0.402	0.00e+00
NR2C2	0.00e+00	3.47e-01	0.641	0.439	0.00e+00
NR2F1	0.00e+00	4.27e-01	0.613	0.413	0.00e+00
NR2F1-AS1	0.00e+00	6.14e-01	0.883	0.55	0.00e+00
NR2F2	0.00e+00	6.18e-01	0.523	0.24	0.00e+00
NR2F2-AS1	0.00e+00	1.42e+00	0.864	0.383	0.00e+00
NR3C2	0.00e+00	4.77e-01	0.921	0.645	0.00e+00
NR6A1	0.00e+00	3.83e-01	0.846	0.603	0.00e+00
NRCAM	0.00e+00	7.66e-01	0.995	0.895	0.00e+00
NRDC	0.00e+00	2.87e-01	0.878	0.623	0.00e+00
NRF1	0.00e+00	5.05e-01	0.891	0.597	0.00e+00
NRG1	0.00e+00	1.06e+00	0.964	0.831	0.00e+00
NRG2	0.00e+00	5.77e-01	0.865	0.587	0.00e+00
NRG3	0.00e+00	7.03e-01	1.0	0.981	0.00e+00

NRGN	0.00e+00	6.34e-01	0.849	0.607	0.00e+00
NRIP1	0.00e+00	5.73e-01	0.831	0.542	0.00e+00
NRXN1	0.00e+00	4.51e-01	1.0	0.979	0.00e+00
NSD1	0.00e+00	4.12e-01	0.897	0.66	0.00e+00
NSD2	0.00e+00	4.59e-01	0.832	0.601	0.00e+00
NSD3	0.00e+00	4.63e-01	0.951	0.695	0.00e+00
NSFL1C	0.00e+00	2.89e-01	0.517	0.333	0.00e+00
NSG2	0.00e+00	5.24e-01	0.906	0.548	0.00e+00
NSL1	0.00e+00	3.07e-01	0.707	0.465	0.00e+00
NSMAF	0.00e+00	3.45e-01	0.817	0.561	0.00e+00
NSMCE2	0.00e+00	5.32e-01	0.913	0.642	0.00e+00
NSRP1	0.00e+00	3.32e-01	0.612	0.391	0.00e+00
NT5C2	0.00e+00	6.37e-01	0.939	0.625	0.00e+00
NT5DC1	0.00e+00	4.56e-01	0.655	0.428	0.00e+00
NTM	0.00e+00	1.08e+00	0.974	0.825	0.00e+00
NTRK3	0.00e+00	5.84e-01	0.959	0.807	0.00e+00
NUBPL	0.00e+00	5.07e-01	0.812	0.536	0.00e+00
NUCB2	0.00e+00	3.25e-01	0.72	0.497	0.00e+00
NUCKS1	0.00e+00	4.12e-01	0.864	0.648	0.00e+00
NUDT3	0.00e+00	5.91e-01	0.919	0.628	0.00e+00
NUDT5	0.00e+00	3.17e-01	0.604	0.373	0.00e+00
NUFIP2	0.00e+00	3.19e-01	0.719	0.51	0.00e+00
NUP153	0.00e+00	3.63e-01	0.757	0.506	0.00e+00
NUP160	0.00e+00	3.88e-01	0.599	0.341	0.00e+00
NUP214	0.00e+00	2.93e-01	0.684	0.456	0.00e+00
NUP42	0.00e+00	3.84e-01	0.634	0.37	0.00e+00

NUP50-DT	0.00e+00	5.35e-01	0.758	0.45	0.00e+00
NUP58	0.00e+00	3.64e-01	0.797	0.526	0.00e+00
NUP88	0.00e+00	3.28e-01	0.681	0.448	0.00e+00
NUP93	0.00e+00	5.44e-01	0.8	0.545	0.00e+00
NUP98	0.00e+00	3.37e-01	0.724	0.495	0.00e+00
NUTM2A-AS1	0.00e+00	4.96e-01	0.848	0.533	0.00e+00
NUTM2B-AS1	0.00e+00	3.95e-01	0.839	0.531	0.00e+00
NVL	0.00e+00	3.17e-01	0.66	0.433	0.00e+00
NWD2	0.00e+00	5.80e-01	0.756	0.568	0.00e+00
ODF2L	0.00e+00	4.58e-01	0.909	0.645	0.00e+00
ODR4	0.00e+00	4.19e-01	0.712	0.425	0.00e+00
OGA	0.00e+00	6.26e-01	0.949	0.569	0.00e+00
OGDH	0.00e+00	3.12e-01	0.696	0.487	0.00e+00
OGFRL1	0.00e+00	3.45e-01	0.554	0.35	0.00e+00
OLA1	0.00e+00	4.60e-01	0.922	0.651	0.00e+00
OPA1	0.00e+00	3.90e-01	0.861	0.615	0.00e+00
OPCML	0.00e+00	5.50e-01	0.993	0.943	0.00e+00
OPHN1	0.00e+00	4.12e-01	0.859	0.613	0.00e+00
OPRM1	0.00e+00	1.02e+00	0.635	0.294	0.00e+00
ORAI2	0.00e+00	2.87e-01	0.508	0.319	0.00e+00
ORC2	0.00e+00	3.28e-01	0.729	0.501	0.00e+00
ORC3	0.00e+00	4.07e-01	0.821	0.538	0.00e+00
ORC4	0.00e+00	3.58e-01	0.838	0.566	0.00e+00
ORC5	0.00e+00	3.28e-01	0.717	0.472	0.00e+00
OSBP2	0.00e+00	3.10e-01	0.905	0.7	0.00e+00
OSBPL10	0.00e+00	3.02e-01	0.741	0.519	0.00e+00

OSBPL6	0.00e+00	4.14e-01	0.961	0.735	0.00e+00
OSBPL8	0.00e+00	5.60e-01	0.949	0.719	0.00e+00
OSBPL9	0.00e+00	3.45e-01	0.735	0.504	0.00e+00
OTUD7A	0.00e+00	6.28e-01	0.982	0.636	0.00e+00
OXR1	0.00e+00	3.53e-01	0.989	0.858	0.00e+00
OXSR1	0.00e+00	3.60e-01	0.773	0.531	0.00e+00
P4HA1	0.00e+00	3.74e-01	0.743	0.499	0.00e+00
PABPC1	0.00e+00	2.89e-01	0.771	0.56	0.00e+00
PABPN1	0.00e+00	4.62e-01	0.869	0.558	0.00e+00
PACRG	0.00e+00	4.86e-01	0.943	0.708	0.00e+00
PACRGL	0.00e+00	2.72e-01	0.696	0.478	0.00e+00
PACS1	0.00e+00	4.25e-01	0.894	0.677	0.00e+00
PAFAH1B1	0.00e+00	4.35e-01	0.952	0.759	0.00e+00
PAG1	0.00e+00	3.67e-01	0.63	0.416	0.00e+00
PAK3	0.00e+00	6.57e-01	0.984	0.801	0.00e+00
PAK5	0.00e+00	4.79e-01	0.905	0.55	0.00e+00
PALM	0.00e+00	3.86e-01	0.675	0.49	0.00e+00
PALM2	0.00e+00	-3.45e-01	0.015	0.116	0.00e+00
PALM2AKAP2	0.00e+00	6.93e-01	0.923	0.494	0.00e+00
PALMD	0.00e+00	4.40e-01	0.795	0.558	0.00e+00
PAM	0.00e+00	3.62e-01	0.928	0.701	0.00e+00
PAN3	0.00e+00	3.88e-01	0.901	0.645	0.00e+00
PANK3	0.00e+00	3.17e-01	0.741	0.5	0.00e+00
PAPOLA	0.00e+00	3.07e-01	0.811	0.561	0.00e+00
PAPSS1	0.00e+00	5.26e-01	0.879	0.627	0.00e+00
PAQR3	0.00e+00	3.06e-01	0.688	0.466	0.00e+00

PARD3	0.00e+00	1.70e+00	0.833	0.447	0.00e+00
PARD3B	0.00e+00	8.77e-01	0.469	0.235	0.00e+00
PARG	0.00e+00	3.15e-01	0.762	0.522	0.00e+00
PARGP1	0.00e+00	4.43e-01	0.708	0.417	0.00e+00
PARN	0.00e+00	3.23e-01	0.716	0.445	0.00e+00
PARP11	0.00e+00	3.44e-01	0.691	0.457	0.00e+00
PART1	0.00e+00	5.85e-01	0.232	0.071	0.00e+00
PARVA	0.00e+00	5.87e-01	0.513	0.27	0.00e+00
PATJ	0.00e+00	5.48e-01	0.94	0.656	0.00e+00
PAXBP1	0.00e+00	3.50e-01	0.756	0.465	0.00e+00
PBRM1	0.00e+00	4.27e-01	0.849	0.604	0.00e+00
PBX1	0.00e+00	6.67e-01	0.987	0.835	0.00e+00
PCBP1-AS1	0.00e+00	5.00e-01	0.756	0.418	0.00e+00
PCBP2	0.00e+00	2.52e-01	0.718	0.494	0.00e+00
PCBP3	0.00e+00	4.14e-01	0.43	0.249	0.00e+00
PCBP4	0.00e+00	3.17e-01	0.45	0.245	0.00e+00
PCCA	0.00e+00	4.60e-01	0.893	0.644	0.00e+00
PCDH15	0.00e+00	8.78e-01	0.861	0.726	0.00e+00
PCDH7	0.00e+00	5.44e-01	0.989	0.886	0.00e+00
PCDH9	0.00e+00	4.68e-01	0.999	0.977	0.00e+00
PCDHGC3	0.00e+00	4.33e-01	0.606	0.332	0.00e+00
PCF11	0.00e+00	2.69e-01	0.584	0.384	0.00e+00
PCGF5	0.00e+00	3.37e-01	0.779	0.554	0.00e+00
PCID2	0.00e+00	2.74e-01	0.626	0.422	0.00e+00
PCLO	0.00e+00	5.01e-01	0.989	0.87	0.00e+00
PCM1	0.00e+00	4.55e-01	0.948	0.742	0.00e+00

PCMTD1	0.00e+00	2.70e-01	0.886	0.615	0.00e+00
PCMTD2	0.00e+00	2.71e-01	0.629	0.385	0.00e+00
PCNX1	0.00e+00	6.15e-01	0.95	0.691	0.00e+00
PCNX2	0.00e+00	7.67e-01	0.977	0.749	0.00e+00
PCNX4	0.00e+00	4.98e-01	0.822	0.549	0.00e+00
PCSK2	0.00e+00	8.74e-01	0.962	0.754	0.00e+00
PCSK7	0.00e+00	4.62e-01	0.732	0.498	0.00e+00
PCTP	0.00e+00	2.90e-01	0.366	0.201	0.00e+00
PDC-AS1	0.00e+00	5.17e-01	0.854	0.478	0.00e+00
PDCD10	0.00e+00	2.87e-01	0.649	0.431	0.00e+00
PDCD6IP	0.00e+00	2.69e-01	0.812	0.565	0.00e+00
PDCD7	0.00e+00	2.92e-01	0.632	0.427	0.00e+00
PDE1A	0.00e+00	8.29e-01	0.966	0.843	0.00e+00
PDE2A	0.00e+00	3.64e-01	0.829	0.64	0.00e+00
PDE4A	0.00e+00	3.40e-01	0.661	0.452	0.00e+00
PDE4B	0.00e+00	8.42e-01	0.921	0.788	0.00e+00
PDE4D	0.00e+00	7.11e-01	0.993	0.921	0.00e+00
PDE7A	0.00e+00	3.25e-01	0.801	0.554	0.00e+00
PDE8B	0.00e+00	4.38e-01	0.866	0.547	0.00e+00
PDE9A	0.00e+00	9.51e-01	0.578	0.203	0.00e+00
PDGFC	0.00e+00	8.32e-01	0.764	0.447	0.00e+00
PDHX	0.00e+00	2.59e-01	0.775	0.53	0.00e+00
PDS5A	0.00e+00	4.46e-01	0.909	0.66	0.00e+00
PDS5B	0.00e+00	5.10e-01	0.938	0.708	0.00e+00
PDSS2	0.00e+00	3.25e-01	0.741	0.519	0.00e+00
PDXK	0.00e+00	4.95e-01	0.765	0.538	0.00e+00

PDZD7	0.00e+00	3.58e-01	0.475	0.284	0.00e+00
PDZD8	0.00e+00	2.59e-01	0.692	0.477	0.00e+00
PDZRN3	0.00e+00	8.41e-01	0.778	0.578	0.00e+00
PDZRN4	0.00e+00	9.66e-01	0.657	0.481	0.00e+00
PEAK1	0.00e+00	4.82e-01	0.924	0.671	0.00e+00
PELI1	0.00e+00	3.73e-01	0.616	0.386	0.00e+00
PEX3	0.00e+00	3.76e-01	0.711	0.47	0.00e+00
PEX5L	0.00e+00	8.84e-01	0.953	0.814	0.00e+00
PFKFB3	0.00e+00	3.31e-01	0.658	0.451	0.00e+00
PGAP1	0.00e+00	6.54e-01	0.891	0.628	0.00e+00
PGAP2	0.00e+00	3.08e-01	0.528	0.346	0.00e+00
PGBD5	0.00e+00	5.29e-01	0.935	0.707	0.00e+00
PGP	0.00e+00	3.42e-01	0.697	0.463	0.00e+00
PGRMC1	0.00e+00	3.32e-01	0.682	0.49	0.00e+00
PHACTR1	0.00e+00	8.97e-01	0.999	0.96	0.00e+00
PHACTR3	0.00e+00	2.91e-01	0.889	0.696	0.00e+00
PHACTR4	0.00e+00	4.87e-01	0.821	0.558	0.00e+00
PHC2	0.00e+00	4.39e-01	0.807	0.558	0.00e+00
PHC3	0.00e+00	4.36e-01	0.905	0.624	0.00e+00
PHF14	0.00e+00	4.69e-01	0.971	0.755	0.00e+00
PHF20	0.00e+00	2.70e-01	0.755	0.541	0.00e+00
PHF20L1	0.00e+00	4.73e-01	0.886	0.617	0.00e+00
PHF21A	0.00e+00	4.90e-01	0.899	0.648	0.00e+00
PHF3	0.00e+00	4.93e-01	0.899	0.622	0.00e+00
PHIP	0.00e+00	3.78e-01	0.933	0.695	0.00e+00
PHKB	0.00e+00	4.55e-01	0.861	0.585	0.00e+00

PHLPP1	0.00e+00	2.53e-01	0.855	0.625	0.00e+00
PHLPP2	0.00e+00	3.52e-01	0.813	0.567	0.00e+00
PHTF2	0.00e+00	2.96e-01	0.864	0.611	0.00e+00
PHYHIPL	0.00e+00	3.52e-01	0.704	0.5	0.00e+00
PI4KA	0.00e+00	4.34e-01	0.953	0.743	0.00e+00
PIAS1	0.00e+00	4.54e-01	0.944	0.702	0.00e+00
PIAS2	0.00e+00	4.79e-01	0.915	0.639	0.00e+00
PIBF1	0.00e+00	4.54e-01	0.891	0.634	0.00e+00
PICALM	0.00e+00	4.31e-01	0.902	0.652	0.00e+00
PID1	0.00e+00	5.15e-01	0.937	0.687	0.00e+00
PIGF	0.00e+00	3.99e-01	0.561	0.325	0.00e+00
PIGK	0.00e+00	3.84e-01	0.684	0.443	0.00e+00
PIGL	0.00e+00	2.91e-01	0.757	0.518	0.00e+00
PIGN	0.00e+00	3.30e-01	0.729	0.49	0.00e+00
PIK3C3	0.00e+00	3.87e-01	0.857	0.593	0.00e+00
PIK3CA	0.00e+00	4.09e-01	0.815	0.561	0.00e+00
PIK3CB	0.00e+00	3.95e-01	0.835	0.573	0.00e+00
PIKFYVE	0.00e+00	2.94e-01	0.751	0.512	0.00e+00
PILRB	0.00e+00	4.25e-01	0.647	0.411	0.00e+00
PIP4K2B	0.00e+00	3.18e-01	0.64	0.405	0.00e+00
PIP4P2	0.00e+00	3.51e-01	0.536	0.315	0.00e+00
PIP5K1A	0.00e+00	3.36e-01	0.792	0.562	0.00e+00
PISD	0.00e+00	3.24e-01	0.752	0.514	0.00e+00
PITPNA	0.00e+00	3.27e-01	0.652	0.461	0.00e+00
PITPNB	0.00e+00	2.53e-01	0.714	0.508	0.00e+00
PITPNM2	0.00e+00	2.70e-01	0.768	0.568	0.00e+00

PKD1	0.00e+00	3.01e-01	0.885	0.618	0.00e+00
PKD1P6	0.00e+00	3.57e-01	0.475	0.277	0.00e+00
PKIA	0.00e+00	6.22e-01	0.875	0.644	0.00e+00
PKNOX1	0.00e+00	4.54e-01	0.715	0.465	0.00e+00
PKNOX2	0.00e+00	4.97e-01	0.747	0.57	0.00e+00
PKP4	0.00e+00	4.32e-01	0.964	0.772	0.00e+00
PLA2G12A	0.00e+00	2.74e-01	0.611	0.399	0.00e+00
PLA2G4C	0.00e+00	4.47e-01	0.682	0.476	0.00e+00
PLAA	0.00e+00	2.89e-01	0.61	0.402	0.00e+00
PLCB1	0.00e+00	6.49e-01	0.99	0.906	0.00e+00
PLD3	0.00e+00	3.53e-01	0.909	0.706	0.00e+00
PLEC	0.00e+00	3.22e-01	0.741	0.524	0.00e+00
PLEKHA6	0.00e+00	2.78e-01	0.859	0.649	0.00e+00
PLOD2	0.00e+00	4.02e-01	0.392	0.163	0.00e+00
PLPP1	0.00e+00	3.43e-01	0.799	0.546	0.00e+00
PLPPR1	0.00e+00	6.65e-01	0.574	0.293	0.00e+00
PLPPR4	0.00e+00	5.40e-01	0.957	0.734	0.00e+00
PLPPR5	0.00e+00	5.25e-01	0.858	0.595	0.00e+00
PLXDC2	0.00e+00	5.42e-01	0.938	0.703	0.00e+00
PLXNA4	0.00e+00	6.86e-01	0.932	0.713	0.00e+00
PMS1	0.00e+00	2.99e-01	0.771	0.528	0.00e+00
PNISR	0.00e+00	2.81e-01	0.967	0.815	0.00e+00
PNPLA8	0.00e+00	3.18e-01	0.629	0.43	0.00e+00
POC5	0.00e+00	2.84e-01	0.474	0.289	0.00e+00
POGZ	0.00e+00	4.53e-01	0.932	0.674	0.00e+00
POLD3	0.00e+00	2.98e-01	0.611	0.414	0.00e+00

POLK	0.00e+00	4.22e-01	0.794	0.527	0.00e+00
POM121	0.00e+00	3.67e-01	0.759	0.518	0.00e+00
POM121C	0.00e+00	3.32e-01	0.718	0.501	0.00e+00
POR	0.00e+00	2.68e-01	0.514	0.332	0.00e+00
POSTN	0.00e+00	1.50e+00	0.282	0.086	0.00e+00
POT1	0.00e+00	3.38e-01	0.613	0.38	0.00e+00
POT1-AS1	0.00e+00	7.21e-01	0.706	0.391	0.00e+00
POU2F1	0.00e+00	4.34e-01	0.929	0.682	0.00e+00
POU2F2	0.00e+00	3.81e-01	0.629	0.436	0.00e+00
PPA2	0.00e+00	3.55e-01	0.857	0.587	0.00e+00
PPARGC1B	0.00e+00	4.61e-01	0.653	0.43	0.00e+00
PPFIA1	0.00e+00	2.98e-01	0.752	0.536	0.00e+00
PPFIA2	0.00e+00	4.96e-01	0.997	0.909	0.00e+00
PPFIA4	0.00e+00	3.37e-01	0.755	0.545	0.00e+00
PPHLN1	0.00e+00	4.92e-01	0.919	0.643	0.00e+00
PPIG	0.00e+00	2.82e-01	0.834	0.606	0.00e+00
PPIP5K1	0.00e+00	3.11e-01	0.699	0.483	0.00e+00
PPIP5K2	0.00e+00	4.14e-01	0.869	0.608	0.00e+00
PPM1A	0.00e+00	3.10e-01	0.742	0.501	0.00e+00
PPM1E	0.00e+00	6.16e-01	0.976	0.81	0.00e+00
PPM1H	0.00e+00	3.19e-01	0.845	0.614	0.00e+00
PPME1	0.00e+00	3.24e-01	0.79	0.56	0.00e+00
PPP1CB	0.00e+00	2.57e-01	0.598	0.408	0.00e+00
PPP1R10	0.00e+00	2.91e-01	0.588	0.356	0.00e+00
PPP1R12B	0.00e+00	4.89e-01	0.927	0.675	0.00e+00
PPP1R13B	0.00e+00	5.51e-01	0.894	0.658	0.00e+00

PPP1R14C	0.00e+00	3.36e-01	0.45	0.275	0.00e+00
PPP1R16B	0.00e+00	2.74e-01	0.817	0.58	0.00e+00
PPP1R21	0.00e+00	2.54e-01	0.842	0.613	0.00e+00
PPP1R9A	0.00e+00	4.93e-01	0.967	0.756	0.00e+00
PPP2R2A	0.00e+00	3.45e-01	0.805	0.56	0.00e+00
PPP2R2B	0.00e+00	5.44e-01	0.993	0.899	0.00e+00
PPP2R2C	0.00e+00	4.09e-01	0.95	0.796	0.00e+00
PPP2R5E	0.00e+00	3.60e-01	0.887	0.659	0.00e+00
PPP3CA	0.00e+00	5.17e-01	0.989	0.871	0.00e+00
PPP3CB	0.00e+00	3.49e-01	0.905	0.666	0.00e+00
PPP4R1	0.00e+00	3.15e-01	0.675	0.436	0.00e+00
PPP4R2	0.00e+00	3.43e-01	0.7	0.48	0.00e+00
PPP4R3A	0.00e+00	3.86e-01	0.621	0.369	0.00e+00
PPP4R3B	0.00e+00	3.49e-01	0.697	0.463	0.00e+00
PPP6R2	0.00e+00	5.11e-01	0.919	0.69	0.00e+00
PPP6R3	0.00e+00	5.26e-01	0.903	0.636	0.00e+00
PRANCR	0.00e+00	8.81e-01	0.881	0.459	0.00e+00
PRDM2	0.00e+00	3.93e-01	0.852	0.618	0.00e+00
PREPL	0.00e+00	3.25e-01	0.933	0.729	0.00e+00
PRICKLE1	0.00e+00	5.50e-01	0.923	0.665	0.00e+00
PRICKLE2	0.00e+00	3.66e-01	0.95	0.759	0.00e+00
PRIM2	0.00e+00	3.80e-01	0.607	0.373	0.00e+00
PRKAA2	0.00e+00	2.94e-01	0.867	0.604	0.00e+00
PRKACB	0.00e+00	3.44e-01	0.959	0.748	0.00e+00
PRKAG2	0.00e+00	7.14e-01	0.959	0.735	0.00e+00
PRKAR2A	0.00e+00	3.81e-01	0.799	0.562	0.00e+00

PRKAR2B	0.00e+00	2.96e-01	0.83	0.578	0.00e+00
PRKCE	0.00e+00	7.55e-01	0.983	0.831	0.00e+00
PRKCZ	0.00e+00	3.51e-01	0.729	0.532	0.00e+00
PRKDC	0.00e+00	2.81e-01	0.853	0.645	0.00e+00
PRKG1	0.00e+00	6.54e-01	0.905	0.815	0.00e+00
PRKN	0.00e+00	6.75e-01	0.985	0.594	0.00e+00
PRKRIP1	0.00e+00	4.39e-01	0.806	0.572	0.00e+00
PRMT3	0.00e+00	3.31e-01	0.721	0.486	0.00e+00
PRORP	0.00e+00	4.13e-01	0.609	0.333	0.00e+00
PRPF40A	0.00e+00	2.72e-01	0.745	0.509	0.00e+00
PRPF40B	0.00e+00	3.45e-01	0.695	0.486	0.00e+00
PRPF4B	0.00e+00	3.62e-01	0.772	0.498	0.00e+00
PRR14L	0.00e+00	4.02e-01	0.764	0.534	0.00e+00
PRRC2B	0.00e+00	3.70e-01	0.861	0.638	0.00e+00
PRRC2C	0.00e+00	3.59e-01	0.929	0.751	0.00e+00
PRRG1	0.00e+00	3.52e-01	0.549	0.301	0.00e+00
PRRT2	0.00e+00	3.29e-01	0.583	0.366	0.00e+00
PRTFDC1	0.00e+00	2.97e-01	0.534	0.344	0.00e+00
PSD	0.00e+00	3.11e-01	0.713	0.501	0.00e+00
PSD3	0.00e+00	3.03e-01	0.943	0.801	0.00e+00
PSIP1	0.00e+00	2.63e-01	0.851	0.598	0.00e+00
PSMA6	0.00e+00	2.85e-01	0.572	0.327	0.00e+00
PSMB7	0.00e+00	2.94e-01	0.656	0.448	0.00e+00
PSMD1	0.00e+00	3.67e-01	0.867	0.62	0.00e+00
PSMD11	0.00e+00	2.81e-01	0.72	0.49	0.00e+00
PSMD14	0.00e+00	3.92e-01	0.776	0.505	0.00e+00

PSME4	0.00e+00	5.08e-01	0.772	0.515	0.00e+00
PSMF1	0.00e+00	2.56e-01	0.61	0.405	0.00e+00
PSMG2	0.00e+00	2.73e-01	0.649	0.437	0.00e+00
PSPC1	0.00e+00	5.17e-01	0.931	0.662	0.00e+00
PTAR1	0.00e+00	3.22e-01	0.502	0.303	0.00e+00
PTBP2	0.00e+00	5.23e-01	0.936	0.715	0.00e+00
PTCH2	0.00e+00	3.74e-01	0.7	0.461	0.00e+00
PTEN	0.00e+00	4.64e-01	0.915	0.576	0.00e+00
PTGER3	0.00e+00	1.42e+00	0.629	0.273	0.00e+00
PTH2R	0.00e+00	5.88e-01	0.534	0.28	0.00e+00
PTK2	0.00e+00	6.44e-01	0.995	0.857	0.00e+00
PTK2B	0.00e+00	3.50e-01	0.869	0.652	0.00e+00
PTPN1	0.00e+00	3.10e-01	0.736	0.519	0.00e+00
PTPN12	0.00e+00	4.45e-01	0.77	0.519	0.00e+00
PTPN13	0.00e+00	3.52e-01	0.768	0.582	0.00e+00
PTPN14	0.00e+00	5.50e-01	0.446	0.256	0.00e+00
PTPN2	0.00e+00	2.66e-01	0.78	0.532	0.00e+00
PTPN4	0.00e+00	3.54e-01	0.959	0.729	0.00e+00
PTPN5	0.00e+00	2.70e-01	0.783	0.545	0.00e+00
PTPRA	0.00e+00	3.90e-01	0.958	0.756	0.00e+00
PTPRB	0.00e+00	4.60e-01	0.837	0.6	0.00e+00
PTPRD	0.00e+00	3.79e-01	0.999	0.977	0.00e+00
PTPRE	0.00e+00	5.86e-01	0.875	0.657	0.00e+00
PTPRG	0.00e+00	6.35e-01	0.986	0.855	0.00e+00
PTPRG-AS1	0.00e+00	8.34e-01	0.698	0.339	0.00e+00
PTPRJ	0.00e+00	5.74e-01	0.863	0.589	0.00e+00

PTPRM	0.00e+00	5.73e-01	0.85	0.559	0.00e+00
PTPRN2	0.00e+00	6.72e-01	0.996	0.653	0.00e+00
PTPRR	0.00e+00	5.90e-01	0.957	0.791	0.00e+00
PTPRS	0.00e+00	5.33e-01	0.949	0.752	0.00e+00
PUM1	0.00e+00	4.15e-01	0.88	0.636	0.00e+00
PUM2	0.00e+00	2.63e-01	0.9	0.656	0.00e+00
PURA	0.00e+00	3.76e-01	0.804	0.555	0.00e+00
PURG	0.00e+00	4.06e-01	0.768	0.515	0.00e+00
PUS10	0.00e+00	3.27e-01	0.561	0.343	0.00e+00
PUS7L	0.00e+00	3.68e-01	0.841	0.575	0.00e+00
PVT1	0.00e+00	6.41e-01	0.7	0.483	0.00e+00
PWRN1	0.00e+00	1.03e+00	0.775	0.441	0.00e+00
PWRN4	0.00e+00	1.10e+00	0.611	0.185	0.00e+00
PWWP2A	0.00e+00	3.86e-01	0.698	0.452	0.00e+00
PWWP3B	0.00e+00	8.82e-01	0.453	0.166	0.00e+00
PXN	0.00e+00	3.28e-01	0.306	0.154	0.00e+00
PXYLP1	0.00e+00	3.98e-01	0.617	0.357	0.00e+00
QRICH1	0.00e+00	3.52e-01	0.722	0.485	0.00e+00
QSER1	0.00e+00	2.80e-01	0.656	0.44	0.00e+00
QSOX1	0.00e+00	3.85e-01	0.521	0.328	0.00e+00
R3HCC1L	0.00e+00	2.88e-01	0.632	0.417	0.00e+00
R3HDM2	0.00e+00	4.81e-01	0.969	0.749	0.00e+00
RAB10	0.00e+00	5.20e-01	0.87	0.623	0.00e+00
RAB11FIP2	0.00e+00	2.79e-01	0.758	0.513	0.00e+00
RAB11FIP3	0.00e+00	5.09e-01	0.809	0.528	0.00e+00
RAB15	0.00e+00	3.72e-01	0.641	0.426	0.00e+00

RAB26	0.00e+00	2.80e-01	0.635	0.417	0.00e+00
RAB27B	0.00e+00	2.72e-01	0.877	0.666	0.00e+00
RAB28	0.00e+00	5.21e-01	0.871	0.577	0.00e+00
RAB2A	0.00e+00	3.11e-01	0.886	0.655	0.00e+00
RAB30-DT	0.00e+00	4.05e-01	0.615	0.352	0.00e+00
RAB31	0.00e+00	3.82e-01	0.332	0.148	0.00e+00
RAB3C	0.00e+00	7.58e-01	0.885	0.625	0.00e+00
RAB3GAP1	0.00e+00	3.25e-01	0.915	0.667	0.00e+00
RAB3GAP2	0.00e+00	4.25e-01	0.841	0.587	0.00e+00
RAB40B	0.00e+00	5.15e-01	0.789	0.51	0.00e+00
RAB6A	0.00e+00	4.14e-01	0.925	0.704	0.00e+00
RAB7A	0.00e+00	4.09e-01	0.857	0.605	0.00e+00
RAB8B	0.00e+00	3.41e-01	0.547	0.355	0.00e+00
RABEP1	0.00e+00	3.87e-01	0.916	0.695	0.00e+00
RABGAP1	0.00e+00	4.25e-01	0.927	0.688	0.00e+00
RABGAP1L	0.00e+00	5.33e-01	0.992	0.862	0.00e+00
RABGEF1	0.00e+00	6.77e-01	0.931	0.497	0.00e+00
RABL2A	0.00e+00	2.72e-01	0.614	0.404	0.00e+00
RAD18	0.00e+00	4.73e-01	0.736	0.48	0.00e+00
RAD23B	0.00e+00	2.64e-01	0.743	0.509	0.00e+00
RAD50	0.00e+00	3.38e-01	0.766	0.467	0.00e+00
RAD51B	0.00e+00	4.15e-01	0.514	0.334	0.00e+00
RAD54L2	0.00e+00	3.07e-01	0.657	0.445	0.00e+00
RAD9A	0.00e+00	6.00e-01	0.881	0.639	0.00e+00
RAF1	0.00e+00	3.14e-01	0.727	0.504	0.00e+00
RAI1	0.00e+00	3.77e-01	0.671	0.481	0.00e+00

RAI14	0.00e+00	6.84e-01	0.533	0.277	0.00e+00
RALGAPA1	0.00e+00	4.01e-01	0.945	0.71	0.00e+00
RALGAPA2	0.00e+00	2.64e-01	0.798	0.59	0.00e+00
RALGAPB	0.00e+00	2.93e-01	0.763	0.534	0.00e+00
RALGDS	0.00e+00	3.18e-01	0.701	0.463	0.00e+00
RALGPS1	0.00e+00	3.98e-01	0.864	0.633	0.00e+00
RALGPS2	0.00e+00	5.30e-01	0.887	0.639	0.00e+00
RANBP10	0.00e+00	3.87e-01	0.657	0.442	0.00e+00
RAP1A	0.00e+00	3.57e-01	0.773	0.523	0.00e+00
RAP1B	0.00e+00	4.02e-01	0.671	0.429	0.00e+00
RAP1GAP	0.00e+00	5.20e-01	0.879	0.629	0.00e+00
RAP1GAP2	0.00e+00	2.96e-01	0.906	0.706	0.00e+00
RAPGEF1	0.00e+00	3.28e-01	0.724	0.521	0.00e+00
RAPGEF2	0.00e+00	3.15e-01	0.973	0.791	0.00e+00
RAPGEF4	0.00e+00	6.95e-01	0.988	0.794	0.00e+00
RAPGEF5	0.00e+00	3.14e-01	0.959	0.808	0.00e+00
RAPGEF6	0.00e+00	6.58e-01	0.959	0.594	0.00e+00
RAPGEFL1	0.00e+00	3.81e-01	0.831	0.605	0.00e+00
RARS1	0.00e+00	2.99e-01	0.625	0.386	0.00e+00
RARS2	0.00e+00	3.71e-01	0.73	0.475	0.00e+00
RASA1	0.00e+00	3.89e-01	0.928	0.683	0.00e+00
RASA2	0.00e+00	4.80e-01	0.936	0.668	0.00e+00
RASAL1	0.00e+00	3.46e-01	0.59	0.387	0.00e+00
RASAL2	0.00e+00	5.13e-01	0.982	0.824	0.00e+00
RASGEF1A	0.00e+00	3.60e-01	0.614	0.411	0.00e+00
RASGEF1C	0.00e+00	5.06e-01	0.393	0.227	0.00e+00

RASGRF2	0.00e+00	7.64e-01	0.929	0.695	0.00e+00
RASGRP1	0.00e+00	2.67e-01	0.697	0.48	0.00e+00
RAVER2	0.00e+00	6.18e-01	0.827	0.565	0.00e+00
RB1CC1	0.00e+00	3.69e-01	0.891	0.658	0.00e+00
RBBP6	0.00e+00	2.84e-01	0.751	0.529	0.00e+00
RBFOX1	0.00e+00	7.42e-01	0.997	0.99	0.00e+00
RBFOX2	0.00e+00	5.32e-01	0.983	0.637	0.00e+00
RBFOX3	0.00e+00	7.12e-01	0.951	0.812	0.00e+00
RBM14	0.00e+00	2.98e-01	0.536	0.315	0.00e+00
RBM26	0.00e+00	5.82e-01	0.964	0.731	0.00e+00
RBM33	0.00e+00	3.43e-01	0.858	0.595	0.00e+00
RBM39	0.00e+00	3.01e-01	0.916	0.686	0.00e+00
RBM4	0.00e+00	4.35e-01	0.806	0.485	0.00e+00
RBM41	0.00e+00	3.14e-01	0.599	0.381	0.00e+00
RBM5	0.00e+00	3.96e-01	0.89	0.591	0.00e+00
RBM6	0.00e+00	3.99e-01	0.961	0.752	0.00e+00
RBMS1	0.00e+00	3.64e-01	0.483	0.296	0.00e+00
RBMS3	0.00e+00	6.01e-01	0.709	0.418	0.00e+00
RBPJ	0.00e+00	3.16e-01	0.816	0.581	0.00e+00
RC3H1	0.00e+00	4.06e-01	0.885	0.624	0.00e+00
RC3H2	0.00e+00	3.33e-01	0.698	0.483	0.00e+00
RCOR3	0.00e+00	3.70e-01	0.86	0.573	0.00e+00
RDX	0.00e+00	2.92e-01	0.686	0.463	0.00e+00
RECK	0.00e+00	3.42e-01	0.799	0.549	0.00e+00
REEP1	0.00e+00	3.72e-01	0.855	0.65	0.00e+00
REEP2	0.00e+00	2.61e-01	0.739	0.532	0.00e+00

REEP3	0.00e+00	3.11e-01	0.722	0.486	0.00e+00
RELCH	0.00e+00	5.10e-01	0.897	0.519	0.00e+00
REPS1	0.00e+00	3.66e-01	0.864	0.601	0.00e+00
REPS2	0.00e+00	3.40e-01	0.873	0.611	0.00e+00
RERE	0.00e+00	4.35e-01	0.985	0.82	0.00e+00
RERG	0.00e+00	7.43e-01	0.458	0.269	0.00e+00
RESF1	0.00e+00	3.86e-01	0.503	0.267	0.00e+00
RETREG1	0.00e+00	7.17e-01	0.835	0.47	0.00e+00
REV3L	0.00e+00	3.66e-01	0.952	0.722	0.00e+00
RFC3	0.00e+00	6.94e-01	0.72	0.469	0.00e+00
RFLNA	0.00e+00	8.36e-01	0.817	0.447	0.00e+00
RFPL1S	0.00e+00	4.81e-01	0.746	0.463	0.00e+00
RFX1	0.00e+00	2.97e-01	0.507	0.312	0.00e+00
RFX3-AS1	0.00e+00	3.66e-01	0.635	0.39	0.00e+00
RFX7	0.00e+00	4.96e-01	0.914	0.642	0.00e+00
RGL1	0.00e+00	2.88e-01	0.948	0.726	0.00e+00
RGS17	0.00e+00	6.72e-01	0.848	0.561	0.00e+00
RGS20	0.00e+00	6.59e-01	0.614	0.378	0.00e+00
RGS7BP	0.00e+00	4.08e-01	0.84	0.606	0.00e+00
RHBDD2	0.00e+00	2.80e-01	0.638	0.431	0.00e+00
RHOT1	0.00e+00	3.46e-01	0.849	0.611	0.00e+00
RIC8B	0.00e+00	3.57e-01	0.852	0.591	0.00e+00
RICTOR	0.00e+00	5.56e-01	0.915	0.642	0.00e+00
RIMKLB	0.00e+00	3.78e-01	0.741	0.491	0.00e+00
RIMS1	0.00e+00	4.76e-01	0.987	0.857	0.00e+00
RIMS2	0.00e+00	4.69e-01	0.985	0.905	0.00e+00

RIN2	0.00e+00	4.29e-01	0.366	0.198	0.00e+00
RIPOR1	0.00e+00	2.65e-01	0.613	0.398	0.00e+00
RIPOR2	0.00e+00	3.89e-01	0.801	0.557	0.00e+00
RLF	0.00e+00	3.85e-01	0.857	0.615	0.00e+00
RMDN2	0.00e+00	4.35e-01	0.589	0.367	0.00e+00
RMST	0.00e+00	1.12e+00	0.605	0.273	0.00e+00
RNF10	0.00e+00	2.58e-01	0.688	0.48	0.00e+00
RNF111	0.00e+00	2.68e-01	0.873	0.612	0.00e+00
RNF112	0.00e+00	3.26e-01	0.535	0.314	0.00e+00
RNF115	0.00e+00	4.80e-01	0.897	0.634	0.00e+00
RNF13	0.00e+00	4.00e-01	0.853	0.57	0.00e+00
RNF130	0.00e+00	7.01e-01	0.938	0.733	0.00e+00
RNF144A	0.00e+00	3.63e-01	0.883	0.653	0.00e+00
RNF146	0.00e+00	3.13e-01	0.732	0.489	0.00e+00
RNF149	0.00e+00	3.10e-01	0.843	0.605	0.00e+00
RNF150	0.00e+00	3.89e-01	0.942	0.733	0.00e+00
RNF157	0.00e+00	3.89e-01	0.691	0.494	0.00e+00
RNF170	0.00e+00	2.60e-01	0.661	0.436	0.00e+00
RNF180	0.00e+00	3.39e-01	0.782	0.537	0.00e+00
RNF19A	0.00e+00	4.15e-01	0.861	0.602	0.00e+00
RNF213-AS1	0.00e+00	4.99e-01	0.767	0.441	0.00e+00
RNF216	0.00e+00	4.45e-01	0.774	0.537	0.00e+00
RNF216P1	0.00e+00	3.65e-01	0.656	0.398	0.00e+00
RNF217	0.00e+00	5.41e-01	0.771	0.499	0.00e+00
RNF217-AS1	0.00e+00	5.23e-01	0.6	0.342	0.00e+00
RNF24	0.00e+00	2.54e-01	0.82	0.58	0.00e+00

RNF38	0.00e+00	4.71e-01	0.848	0.594	0.00e+00
RNGTT	0.00e+00	4.40e-01	0.884	0.61	0.00e+00
RNLS	0.00e+00	3.49e-01	0.633	0.413	0.00e+00
RNPC3	0.00e+00	4.81e-01	0.94	0.649	0.00e+00
RO60	0.00e+00	3.13e-01	0.58	0.354	0.00e+00
ROBO1	0.00e+00	1.09e+00	0.99	0.897	0.00e+00
ROBO2	0.00e+00	8.54e-01	0.986	0.934	0.00e+00
ROCK1	0.00e+00	3.87e-01	0.872	0.63	0.00e+00
RORA	0.00e+00	2.98e-01	0.979	0.805	0.00e+00
RPAP2	0.00e+00	4.57e-01	0.899	0.65	0.00e+00
RPE	0.00e+00	2.91e-01	0.641	0.411	0.00e+00
RPGRIP1L	0.00e+00	3.34e-01	0.771	0.522	0.00e+00
RPL23AP49	0.00e+00	6.34e-01	0.593	0.274	0.00e+00
RPL37A	0.00e+00	2.66e-01	0.846	0.601	0.00e+00
RPRD1A	0.00e+00	4.11e-01	0.886	0.626	0.00e+00
RPRD1B	0.00e+00	2.60e-01	0.576	0.382	0.00e+00
RPRD2	0.00e+00	4.48e-01	0.932	0.687	0.00e+00
RPS6KA2	0.00e+00	1.21e+00	0.918	0.673	0.00e+00
RPS6KA3	0.00e+00	3.33e-01	0.847	0.606	0.00e+00
RPS6KA5	0.00e+00	3.68e-01	0.729	0.517	0.00e+00
RPS6KA6	0.00e+00	3.99e-01	0.757	0.509	0.00e+00
RPS6KC1	0.00e+00	5.88e-01	0.962	0.722	0.00e+00
RPTOR	0.00e+00	4.35e-01	0.843	0.609	0.00e+00
RRAS2	0.00e+00	3.99e-01	0.722	0.498	0.00e+00
RRP1B	0.00e+00	2.70e-01	0.481	0.299	0.00e+00
RRP7BP	0.00e+00	3.31e-01	0.458	0.258	0.00e+00

RSBN1L	0.00e+00	3.46e-01	0.787	0.542	0.00e+00
RSF1	0.00e+00	4.25e-01	0.923	0.691	0.00e+00
RSPO3	0.00e+00	6.36e-01	0.329	0.098	0.00e+00
RSRC1	0.00e+00	4.55e-01	0.79	0.506	0.00e+00
RSU1	0.00e+00	6.50e-01	0.739	0.484	0.00e+00
RTN1	0.00e+00	3.96e-01	0.988	0.82	0.00e+00
RTN3	0.00e+00	4.68e-01	0.984	0.839	0.00e+00
RTTN	0.00e+00	3.69e-01	0.587	0.371	0.00e+00
RUBCN	0.00e+00	3.18e-01	0.654	0.443	0.00e+00
RUFY1	0.00e+00	3.24e-01	0.659	0.419	0.00e+00
RUFY2	0.00e+00	3.68e-01	0.86	0.624	0.00e+00
RUFY3	0.00e+00	5.19e-01	0.959	0.736	0.00e+00
RUNDC3B	0.00e+00	5.41e-01	0.921	0.672	0.00e+00
RUSC2	0.00e+00	3.54e-01	0.732	0.52	0.00e+00
RYBP	0.00e+00	3.94e-01	0.761	0.463	0.00e+00
RYR2	0.00e+00	9.10e-01	0.999	0.948	0.00e+00
RYR3	0.00e+00	7.38e-01	0.797	0.538	0.00e+00
S100PBP	0.00e+00	2.75e-01	0.607	0.396	0.00e+00
SACS	0.00e+00	3.17e-01	0.848	0.602	0.00e+00
SAMD12	0.00e+00	5.61e-01	0.989	0.813	0.00e+00
SAMD4A	0.00e+00	4.83e-01	0.723	0.479	0.00e+00
SAMD8	0.00e+00	2.93e-01	0.733	0.52	0.00e+00
SAP130	0.00e+00	2.86e-01	0.567	0.374	0.00e+00
SARM1	0.00e+00	3.20e-01	0.63	0.413	0.00e+00
SARNP	0.00e+00	3.28e-01	0.59	0.346	0.00e+00
SARS1	0.00e+00	2.77e-01	0.533	0.324	0.00e+00

SATB2	0.00e+00	-1.14e+00	0.214	0.405	0.00e+00
SBF2	0.00e+00	5.80e-01	0.976	0.792	0.00e+00
SCAF11	0.00e+00	2.77e-01	0.742	0.51	0.00e+00
SCAF8	0.00e+00	4.03e-01	0.863	0.6	0.00e+00
SCAI	0.00e+00	2.71e-01	0.927	0.737	0.00e+00
SCAPER	0.00e+00	5.94e-01	0.935	0.727	0.00e+00
SCARB1	0.00e+00	3.79e-01	0.605	0.399	0.00e+00
SCARB2	0.00e+00	2.98e-01	0.666	0.453	0.00e+00
SCD5	0.00e+00	3.42e-01	0.826	0.618	0.00e+00
SCFD1	0.00e+00	3.89e-01	0.902	0.647	0.00e+00
SCFD2	0.00e+00	5.69e-01	0.914	0.651	0.00e+00
SCGB2B2	0.00e+00	2.60e-01	0.474	0.294	0.00e+00
SCHIP1	0.00e+00	6.47e-01	0.881	0.476	0.00e+00
SCLT1	0.00e+00	5.63e-01	0.901	0.658	0.00e+00
SCMH1	0.00e+00	3.06e-01	0.918	0.697	0.00e+00
SCN11A	0.00e+00	6.09e-01	0.338	0.148	0.00e+00
SCN2A	0.00e+00	3.59e-01	0.981	0.836	0.00e+00
SCN3A	0.00e+00	6.35e-01	0.965	0.738	0.00e+00
SCN8A	0.00e+00	3.20e-01	0.969	0.781	0.00e+00
SCP2	0.00e+00	4.44e-01	0.732	0.48	0.00e+00
SCYL2	0.00e+00	3.77e-01	0.765	0.519	0.00e+00
SDCCAG8	0.00e+00	5.72e-01	0.925	0.577	0.00e+00
SEC14L2	0.00e+00	2.78e-01	0.452	0.262	0.00e+00
SEC14L5	0.00e+00	3.35e-01	0.595	0.407	0.00e+00
SEC22A	0.00e+00	4.07e-01	0.818	0.538	0.00e+00
SEC24B	0.00e+00	3.61e-01	0.793	0.535	0.00e+00

SEC24B-AS1	0.00e+00	3.01e-01	0.458	0.274	0.00e+00
SEC24D	0.00e+00	3.21e-01	0.286	0.134	0.00e+00
SEC31A	0.00e+00	2.98e-01	0.746	0.52	0.00e+00
SEC61A2	0.00e+00	2.95e-01	0.718	0.477	0.00e+00
SEC63	0.00e+00	2.60e-01	0.786	0.574	0.00e+00
SECISBP2L	0.00e+00	3.31e-01	0.859	0.631	0.00e+00
SELENOF	0.00e+00	3.81e-01	0.662	0.401	0.00e+00
SELENOI	0.00e+00	3.12e-01	0.675	0.432	0.00e+00
SEM1	0.00e+00	3.75e-01	0.691	0.454	0.00e+00
SEMA3A	0.00e+00	8.00e-01	0.391	0.188	0.00e+00
SEMA3C	0.00e+00	5.85e-01	0.352	0.188	0.00e+00
SEMA4A	0.00e+00	3.06e-01	0.458	0.268	0.00e+00
SEMA4B	0.00e+00	3.02e-01	0.57	0.37	0.00e+00
SEMA4D	0.00e+00	3.50e-01	0.698	0.487	0.00e+00
SEMA6D	0.00e+00	-1.27e+00	0.267	0.456	0.00e+00
SENP6	0.00e+00	3.94e-01	0.92	0.683	0.00e+00
SEPTIN11	0.00e+00	6.05e-01	0.916	0.521	0.00e+00
SEPTIN2	0.00e+00	5.77e-01	0.864	0.499	0.00e+00
SEPTIN3	0.00e+00	4.77e-01	0.674	0.388	0.00e+00
SEPTIN7	0.00e+00	3.26e-01	0.897	0.522	0.00e+00
SEPTIN7P2	0.00e+00	4.00e-01	0.65	0.369	0.00e+00
SERAC1	0.00e+00	3.13e-01	0.553	0.358	0.00e+00
SERGEF	0.00e+00	2.86e-01	0.866	0.605	0.00e+00
SESN3	0.00e+00	5.67e-01	0.892	0.583	0.00e+00
SESTD1	0.00e+00	2.86e-01	0.821	0.587	0.00e+00
SETD2	0.00e+00	4.05e-01	0.926	0.691	0.00e+00

SETD3	0.00e+00	3.27e-01	0.746	0.521	0.00e+00
SETD5	0.00e+00	3.89e-01	0.947	0.727	0.00e+00
SETX	0.00e+00	3.53e-01	0.816	0.584	0.00e+00
SEZ6L	0.00e+00	4.89e-01	0.912	0.739	0.00e+00
SEZ6L2	0.00e+00	2.80e-01	0.752	0.562	0.00e+00
SF1	0.00e+00	2.54e-01	0.756	0.515	0.00e+00
SFMBT2	0.00e+00	7.70e-01	0.752	0.517	0.00e+00
SFPQ	0.00e+00	3.12e-01	0.917	0.659	0.00e+00
SFSWAP	0.00e+00	3.67e-01	0.747	0.552	0.00e+00
SFT2D2	0.00e+00	3.10e-01	0.476	0.279	0.00e+00
SGCD	0.00e+00	4.77e-01	0.958	0.856	0.00e+00
SGCE	0.00e+00	3.78e-01	0.83	0.55	0.00e+00
SGCZ	0.00e+00	1.65e+00	0.968	0.723	0.00e+00
SGIP1	0.00e+00	6.47e-01	0.986	0.808	0.00e+00
SGK1	0.00e+00	7.63e-01	0.702	0.388	0.00e+00
SGMS1	0.00e+00	6.30e-01	0.903	0.63	0.00e+00
SGPL1	0.00e+00	3.38e-01	0.58	0.365	0.00e+00
SGPP2	0.00e+00	2.62e-01	0.73	0.502	0.00e+00
SGSM1	0.00e+00	5.04e-01	0.895	0.665	0.00e+00
SGSM2	0.00e+00	3.08e-01	0.712	0.499	0.00e+00
SH2B1	0.00e+00	3.31e-01	0.624	0.409	0.00e+00
SH3BGRL	0.00e+00	5.22e-01	0.739	0.489	0.00e+00
SH3BGRL2	0.00e+00	3.74e-01	0.823	0.569	0.00e+00
SH3BP4	0.00e+00	7.03e-01	0.504	0.21	0.00e+00
SH3D21	0.00e+00	2.92e-01	0.445	0.259	0.00e+00
SH3GL2	0.00e+00	7.62e-01	0.969	0.774	0.00e+00

SH3GLB1	0.00e+00	2.74e-01	0.716	0.489	0.00e+00
SH3KBP1	0.00e+00	2.66e-01	0.844	0.632	0.00e+00
SH3PXD2A	0.00e+00	4.28e-01	0.849	0.598	0.00e+00
SH3RF3	0.00e+00	4.23e-01	0.843	0.654	0.00e+00
SH3YL1	0.00e+00	4.45e-01	0.818	0.549	0.00e+00
SHANK2	0.00e+00	4.40e-01	0.97	0.819	0.00e+00
SHANK3	0.00e+00	2.77e-01	0.667	0.408	0.00e+00
SHISA7	0.00e+00	2.80e-01	0.591	0.403	0.00e+00
SHLD2	0.00e+00	4.08e-01	0.684	0.416	0.00e+00
SHOC2	0.00e+00	3.21e-01	0.783	0.551	0.00e+00
SHPRH	0.00e+00	4.01e-01	0.912	0.655	0.00e+00
SHTN1	0.00e+00	5.73e-01	0.934	0.687	0.00e+00
SIDT1	0.00e+00	6.89e-01	0.851	0.573	0.00e+00
SIK3	0.00e+00	6.25e-01	0.974	0.77	0.00e+00
SIL1	0.00e+00	4.61e-01	0.872	0.623	0.00e+00
SIMC1	0.00e+00	4.60e-01	0.78	0.54	0.00e+00
SIN3B	0.00e+00	4.60e-01	0.731	0.491	0.00e+00
SIPA1L1	0.00e+00	5.19e-01	0.995	0.847	0.00e+00
SIPA1L2	0.00e+00	8.55e-01	0.743	0.433	0.00e+00
SIPA1L3	0.00e+00	6.51e-01	0.805	0.58	0.00e+00
SIRPA	0.00e+00	3.88e-01	0.812	0.58	0.00e+00
SKAP2	0.00e+00	4.46e-01	0.737	0.505	0.00e+00
SLAIN1	0.00e+00	2.55e-01	0.875	0.618	0.00e+00
SLAIN2	0.00e+00	3.38e-01	0.696	0.458	0.00e+00
SLC10A7	0.00e+00	3.62e-01	0.61	0.395	0.00e+00
SLC13A3	0.00e+00	4.69e-01	0.853	0.602	0.00e+00

SLC15A2	0.00e+00	2.83e-01	0.434	0.255	0.00e+00
SLC16A1-AS1	0.00e+00	7.33e-01	0.92	0.561	0.00e+00
SLC16A7	0.00e+00	3.61e-01	0.877	0.62	0.00e+00
SLC17A6	0.00e+00	3.24e-01	0.573	0.38	0.00e+00
SLC18B1	0.00e+00	3.35e-01	0.43	0.227	0.00e+00
SLC1A2	0.00e+00	3.21e-01	0.738	0.535	0.00e+00
SLC20A2	0.00e+00	3.05e-01	0.811	0.578	0.00e+00
SLC22A10	0.00e+00	7.28e-01	0.694	0.42	0.00e+00
SLC22A15	0.00e+00	3.59e-01	0.776	0.538	0.00e+00
SLC22A23	0.00e+00	6.55e-01	0.78	0.491	0.00e+00
SLC23A2	0.00e+00	3.06e-01	0.876	0.658	0.00e+00
SLC24A3	0.00e+00	8.71e-01	0.69	0.45	0.00e+00
SLC24A4	0.00e+00	8.65e-01	0.717	0.363	0.00e+00
SLC25A12	0.00e+00	5.26e-01	0.954	0.717	0.00e+00
SLC25A16	0.00e+00	2.95e-01	0.648	0.441	0.00e+00
SLC25A26	0.00e+00	2.84e-01	0.726	0.451	0.00e+00
SLC25A40	0.00e+00	2.68e-01	0.571	0.365	0.00e+00
SLC25A43	0.00e+00	3.97e-01	0.376	0.161	0.00e+00
SLC25A46	0.00e+00	2.75e-01	0.772	0.532	0.00e+00
SLC25A51	0.00e+00	2.74e-01	0.446	0.255	0.00e+00
SLC2A1-AS1	0.00e+00	2.55e-01	0.322	0.162	0.00e+00
SLC2A13	0.00e+00	4.38e-01	0.961	0.799	0.00e+00
SLC30A3	0.00e+00	4.62e-01	0.669	0.442	0.00e+00
SLC35E2A	0.00e+00	3.73e-01	0.445	0.233	0.00e+00
SLC35E3	0.00e+00	5.17e-01	0.727	0.477	0.00e+00
SLC35F1	0.00e+00	7.67e-01	0.791	0.596	0.00e+00

SLC35F3	0.00e+00	9.66e-01	0.93	0.64	0.00e+00
SLC35F5	0.00e+00	3.38e-01	0.742	0.487	0.00e+00
SLC35G2	0.00e+00	2.78e-01	0.573	0.376	0.00e+00
SLC36A4	0.00e+00	3.69e-01	0.787	0.525	0.00e+00
SLC37A1	0.00e+00	4.12e-01	0.593	0.355	0.00e+00
SLC38A6	0.00e+00	5.23e-01	0.85	0.561	0.00e+00
SLC39A10	0.00e+00	6.15e-01	0.935	0.699	0.00e+00
SLC39A11	0.00e+00	8.46e-01	0.781	0.466	0.00e+00
SLC39A9	0.00e+00	2.57e-01	0.612	0.414	0.00e+00
SLC41A2	0.00e+00	4.67e-01	0.869	0.604	0.00e+00
SLC43A2	0.00e+00	3.23e-01	0.477	0.295	0.00e+00
SLC44A1	0.00e+00	5.34e-01	0.924	0.679	0.00e+00
SLC44A5	0.00e+00	4.97e-01	0.86	0.719	0.00e+00
SLC49A4	0.00e+00	4.59e-01	0.663	0.384	0.00e+00
SLC4A10	0.00e+00	4.39e-01	0.99	0.821	0.00e+00
SLC4A4	0.00e+00	7.98e-01	0.714	0.485	0.00e+00
SLC4A8	0.00e+00	2.77e-01	0.812	0.593	0.00e+00
SLC5A4-AS1	0.00e+00	6.33e-01	0.428	0.23	0.00e+00
SLC66A2	0.00e+00	3.38e-01	0.532	0.315	0.00e+00
SLC6A15	0.00e+00	2.94e-01	0.739	0.517	0.00e+00
SLC7A14	0.00e+00	4.06e-01	0.653	0.438	0.00e+00
SLC7A6	0.00e+00	3.81e-01	0.692	0.449	0.00e+00
SLC8A1	0.00e+00	6.44e-01	0.995	0.912	0.00e+00
SLC8A2	0.00e+00	3.88e-01	0.765	0.579	0.00e+00
SLC8A3	0.00e+00	3.73e-01	0.768	0.554	0.00e+00
SLC9A1	0.00e+00	4.51e-01	0.518	0.289	0.00e+00

SLC9A3-AS1	0.00e+00	3.05e-01	0.43	0.214	0.00e+00
SLC9A9	0.00e+00	4.27e-01	0.619	0.387	0.00e+00
SLC9B2	0.00e+00	2.52e-01	0.664	0.464	0.00e+00
SLCO3A1	0.00e+00	7.51e-01	0.924	0.729	0.00e+00
SLCO4C1	0.00e+00	3.04e-01	0.223	0.077	0.00e+00
SLF1	0.00e+00	4.66e-01	0.852	0.569	0.00e+00
SLF2	0.00e+00	4.46e-01	0.735	0.478	0.00e+00
SLIT1	0.00e+00	5.37e-01	0.862	0.626	0.00e+00
SLIT3	0.00e+00	6.56e-01	0.933	0.798	0.00e+00
SLITRK5	0.00e+00	4.16e-01	0.817	0.555	0.00e+00
SLMAP	0.00e+00	3.81e-01	0.881	0.631	0.00e+00
SLTM	0.00e+00	3.04e-01	0.779	0.541	0.00e+00
SLX4IP	0.00e+00	3.29e-01	0.655	0.427	0.00e+00
SMAD2	0.00e+00	3.13e-01	0.78	0.54	0.00e+00
SMAD3	0.00e+00	3.53e-01	0.758	0.532	0.00e+00
SMAP1	0.00e+00	3.76e-01	0.876	0.63	0.00e+00
SMAP2	0.00e+00	3.97e-01	0.815	0.565	0.00e+00
SMARCA2	0.00e+00	2.69e-01	0.921	0.739	0.00e+00
SMARCA4	0.00e+00	4.23e-01	0.738	0.556	0.00e+00
SMARCA5	0.00e+00	2.84e-01	0.614	0.421	0.00e+00
SMARCAD1	0.00e+00	3.37e-01	0.839	0.578	0.00e+00
SMARCAL1	0.00e+00	2.85e-01	0.524	0.325	0.00e+00
SMARCC1	0.00e+00	3.12e-01	0.722	0.507	0.00e+00
SMC5	0.00e+00	5.14e-01	0.829	0.568	0.00e+00
SMC6	0.00e+00	2.76e-01	0.802	0.559	0.00e+00
SMCHD1	0.00e+00	3.90e-01	0.86	0.606	0.00e+00

SMG1	0.00e+00	3.10e-01	0.848	0.623	0.00e+00
SMG1P3	0.00e+00	3.57e-01	0.508	0.299	0.00e+00
SMG6	0.00e+00	3.79e-01	0.811	0.569	0.00e+00
SMG7	0.00e+00	3.26e-01	0.786	0.553	0.00e+00
SMIM14	0.00e+00	3.31e-01	0.672	0.452	0.00e+00
SMIM8	0.00e+00	4.79e-01	0.775	0.525	0.00e+00
SMPD3	0.00e+00	5.55e-01	0.67	0.44	0.00e+00
SMURF1	0.00e+00	4.40e-01	0.808	0.528	0.00e+00
SMURF2	0.00e+00	2.67e-01	0.706	0.483	0.00e+00
SMYD3	0.00e+00	5.59e-01	0.992	0.847	0.00e+00
SNAI3-AS1	0.00e+00	2.82e-01	0.422	0.245	0.00e+00
SNAP25	0.00e+00	5.34e-01	0.995	0.824	0.00e+00
SNAP91	0.00e+00	4.37e-01	0.98	0.826	0.00e+00
SNAPC3	0.00e+00	3.34e-01	0.723	0.489	0.00e+00
SNCA	0.00e+00	6.64e-01	0.912	0.677	0.00e+00
SND1	0.00e+00	4.09e-01	0.901	0.643	0.00e+00
SNHG14	0.00e+00	9.75e-01	0.98	0.852	0.00e+00
SNHG22	0.00e+00	3.27e-01	0.492	0.283	0.00e+00
SNHG5	0.00e+00	4.77e-01	0.724	0.486	0.00e+00
SNRNP70	0.00e+00	3.86e-01	0.87	0.62	0.00e+00
SNRPN	0.00e+00	6.51e-01	0.894	0.702	0.00e+00
SNTB2	0.00e+00	2.75e-01	0.667	0.418	0.00e+00
SNX10	0.00e+00	2.98e-01	0.797	0.574	0.00e+00
SNX13	0.00e+00	3.31e-01	0.847	0.592	0.00e+00
SNX14	0.00e+00	3.93e-01	0.896	0.625	0.00e+00
SNX24	0.00e+00	3.59e-01	0.667	0.432	0.00e+00

SNX27	0.00e+00	2.99e-01	0.72	0.497	0.00e+00
SNX29	0.00e+00	4.80e-01	0.795	0.569	0.00e+00
SNX30	0.00e+00	3.04e-01	0.613	0.404	0.00e+00
SNX32	0.00e+00	4.47e-01	0.806	0.591	0.00e+00
SNX4	0.00e+00	3.61e-01	0.748	0.507	0.00e+00
SNX6	0.00e+00	2.70e-01	0.605	0.416	0.00e+00
SNX9	0.00e+00	4.65e-01	0.848	0.575	0.00e+00
SOCS7	0.00e+00	3.23e-01	0.67	0.422	0.00e+00
SOGA1	0.00e+00	3.71e-01	0.666	0.475	0.00e+00
SOGA3	0.00e+00	4.03e-01	0.679	0.371	0.00e+00
SORBS1	0.00e+00	4.51e-01	0.977	0.784	0.00e+00
SORBS2	0.00e+00	3.91e-01	0.991	0.831	0.00e+00
SORT1	0.00e+00	2.58e-01	0.784	0.572	0.00e+00
SOS1	0.00e+00	5.73e-01	0.944	0.72	0.00e+00
SOS2	0.00e+00	3.23e-01	0.822	0.576	0.00e+00
SOX2-OT	0.00e+00	5.37e-01	0.701	0.425	0.00e+00
SP3	0.00e+00	3.52e-01	0.702	0.466	0.00e+00
SP4	0.00e+00	3.05e-01	0.553	0.356	0.00e+00
SPAG9	0.00e+00	3.51e-01	0.858	0.622	0.00e+00
SPARCL1	0.00e+00	-1.41e+00	0.314	0.506	0.00e+00
SPART	0.00e+00	4.80e-01	0.799	0.471	0.00e+00
SPAST	0.00e+00	3.88e-01	0.721	0.497	0.00e+00
SPATA5	0.00e+00	3.67e-01	0.583	0.365	0.00e+00
SPATA6L	0.00e+00	3.00e-01	0.644	0.438	0.00e+00
SPATA7	0.00e+00	3.00e-01	0.817	0.587	0.00e+00
SPATS2	0.00e+00	4.01e-01	0.858	0.645	0.00e+00

SPECC1	0.00e+00	3.93e-01	0.857	0.611	0.00e+00
SPECC1L	0.00e+00	5.64e-01	0.84	0.504	0.00e+00
SPEF2	0.00e+00	4.98e-01	0.756	0.49	0.00e+00
SPEN	0.00e+00	2.97e-01	0.747	0.537	0.00e+00
SPG11	0.00e+00	2.90e-01	0.77	0.542	0.00e+00
SPG7	0.00e+00	3.33e-01	0.827	0.588	0.00e+00
SPICE1	0.00e+00	3.40e-01	0.594	0.367	0.00e+00
SPIDR	0.00e+00	4.39e-01	0.982	0.787	0.00e+00
SPIN1	0.00e+00	4.20e-01	0.916	0.668	0.00e+00
SPIRE1	0.00e+00	4.53e-01	0.932	0.695	0.00e+00
SPOCK3	0.00e+00	1.31e+00	0.696	0.376	0.00e+00
SPON1	0.00e+00	1.38e+00	0.697	0.362	0.00e+00
SPOP	0.00e+00	3.68e-01	0.723	0.49	0.00e+00
SPOPL	0.00e+00	2.79e-01	0.587	0.388	0.00e+00
SPPL2B	0.00e+00	3.01e-01	0.598	0.397	0.00e+00
SPPL3	0.00e+00	3.71e-01	0.874	0.637	0.00e+00
SPRY3	0.00e+00	3.05e-01	0.459	0.255	0.00e+00
SPTAN1	0.00e+00	4.06e-01	0.94	0.766	0.00e+00
SPTBN1	0.00e+00	5.30e-01	0.974	0.817	0.00e+00
SPTBN4	0.00e+00	6.13e-01	0.969	0.826	0.00e+00
SRBD1	0.00e+00	3.46e-01	0.501	0.304	0.00e+00
SRCIN1	0.00e+00	4.61e-01	0.754	0.501	0.00e+00
SREBF2	0.00e+00	5.22e-01	0.868	0.631	0.00e+00
SREK1	0.00e+00	2.93e-01	0.799	0.57	0.00e+00
SRGAP2	0.00e+00	3.57e-01	0.814	0.577	0.00e+00
SRGAP3	0.00e+00	5.47e-01	0.984	0.81	0.00e+00

SRPK2	0.00e+00	4.64e-01	0.971	0.78	0.00e+00
SRRM1	0.00e+00	2.62e-01	0.754	0.512	0.00e+00
SRRM3	0.00e+00	4.94e-01	0.942	0.763	0.00e+00
SRSF10	0.00e+00	3.17e-01	0.786	0.525	0.00e+00
SRSF11	0.00e+00	3.07e-01	0.951	0.738	0.00e+00
SRSF4	0.00e+00	4.14e-01	0.787	0.532	0.00e+00
SS18	0.00e+00	3.88e-01	0.751	0.483	0.00e+00
SS18L1	0.00e+00	2.90e-01	0.569	0.38	0.00e+00
SSBP2	0.00e+00	2.78e-01	0.937	0.761	0.00e+00
SSBP3	0.00e+00	4.58e-01	0.801	0.6	0.00e+00
SSBP4	0.00e+00	2.55e-01	0.74	0.501	0.00e+00
SSH1	0.00e+00	4.30e-01	0.668	0.438	0.00e+00
SSH2	0.00e+00	6.67e-01	0.977	0.782	0.00e+00
SSR1	0.00e+00	3.15e-01	0.683	0.466	0.00e+00
ST20	0.00e+00	2.81e-01	0.407	0.226	0.00e+00
ST3GAL1	0.00e+00	5.54e-01	0.585	0.351	0.00e+00
ST3GAL2	0.00e+00	4.05e-01	0.615	0.399	0.00e+00
ST3GAL3	0.00e+00	4.68e-01	0.842	0.513	0.00e+00
ST3GAL5	0.00e+00	2.85e-01	0.706	0.484	0.00e+00
ST6GAL2	0.00e+00	1.05e+00	0.853	0.582	0.00e+00
ST6GALNAC3	0.00e+00	9.24e-01	0.891	0.631	0.00e+00
ST6GALNAC5	0.00e+00	1.04e+00	0.951	0.852	0.00e+00
ST7L	0.00e+00	2.85e-01	0.66	0.434	0.00e+00
ST8SIA3	0.00e+00	2.86e-01	0.757	0.561	0.00e+00
ST8SIA5	0.00e+00	6.00e-01	0.724	0.502	0.00e+00
STAC	0.00e+00	8.31e-01	0.421	0.138	0.00e+00

STAG1	0.00e+00	3.69e-01	0.898	0.657	0.00e+00
STAG2	0.00e+00	3.24e-01	0.67	0.449	0.00e+00
STAG3L2	0.00e+00	4.04e-01	0.617	0.345	0.00e+00
STAG3L4	0.00e+00	6.03e-01	0.791	0.432	0.00e+00
STAM	0.00e+00	3.04e-01	0.609	0.396	0.00e+00
STAMBPL1	0.00e+00	4.91e-01	0.673	0.392	0.00e+00
STARD3	0.00e+00	3.75e-01	0.537	0.331	0.00e+00
STARD4	0.00e+00	3.78e-01	0.477	0.24	0.00e+00
STARD4-AS1	0.00e+00	4.44e-01	0.509	0.315	0.00e+00
STAU1	0.00e+00	3.45e-01	0.704	0.482	0.00e+00
STAU2	0.00e+00	4.75e-01	0.954	0.693	0.00e+00
STIM1	0.00e+00	5.40e-01	0.832	0.527	0.00e+00
STIM2	0.00e+00	4.28e-01	0.795	0.545	0.00e+00
STIMATE	0.00e+00	3.39e-01	0.449	0.246	0.00e+00
STK39	0.00e+00	5.38e-01	0.905	0.657	0.00e+00
STOX2	0.00e+00	6.40e-01	0.943	0.69	0.00e+00
STRADA	0.00e+00	3.42e-01	0.69	0.413	0.00e+00
STRN3	0.00e+00	4.92e-01	0.914	0.639	0.00e+00
STT3B	0.00e+00	2.70e-01	0.719	0.482	0.00e+00
STUM	0.00e+00	6.61e-01	0.723	0.38	0.00e+00
STX12	0.00e+00	3.57e-01	0.769	0.525	0.00e+00
STX17-AS1	0.00e+00	5.55e-01	0.739	0.403	0.00e+00
STX18	0.00e+00	3.67e-01	0.71	0.457	0.00e+00
STX18-AS1	0.00e+00	4.85e-01	0.814	0.485	0.00e+00
STX3	0.00e+00	2.67e-01	0.612	0.4	0.00e+00
STX7	0.00e+00	4.57e-01	0.789	0.516	0.00e+00

STX8	0.00e+00	4.22e-01	0.755	0.525	0.00e+00
STXBP1	0.00e+00	5.18e-01	0.963	0.778	0.00e+00
STXBP3	0.00e+00	4.31e-01	0.706	0.451	0.00e+00
STXBP4	0.00e+00	3.22e-01	0.658	0.433	0.00e+00
STXBP5	0.00e+00	3.98e-01	0.967	0.79	0.00e+00
STXBP5-AS1	0.00e+00	5.39e-01	0.589	0.32	0.00e+00
STXBP5L	0.00e+00	3.62e-01	0.996	0.926	0.00e+00
STXBP6	0.00e+00	8.33e-01	0.412	0.188	0.00e+00
SUCLA2	0.00e+00	3.00e-01	0.717	0.476	0.00e+00
SUCO	0.00e+00	2.89e-01	0.636	0.424	0.00e+00
SUFU	0.00e+00	4.87e-01	0.686	0.462	0.00e+00
SUGCT	0.00e+00	4.94e-01	0.573	0.356	0.00e+00
SUGP2	0.00e+00	4.27e-01	0.891	0.641	0.00e+00
SULT1A1	0.00e+00	4.08e-01	0.746	0.511	0.00e+00
SUMF1	0.00e+00	3.91e-01	0.896	0.646	0.00e+00
SUN1	0.00e+00	2.51e-01	0.794	0.584	0.00e+00
SUPT20H	0.00e+00	2.59e-01	0.628	0.421	0.00e+00
SUPT3H	0.00e+00	5.70e-01	0.966	0.735	0.00e+00
SUSD1	0.00e+00	2.96e-01	0.716	0.501	0.00e+00
SUSD4	0.00e+00	7.68e-01	0.872	0.632	0.00e+00
SUSD6	0.00e+00	3.46e-01	0.593	0.376	0.00e+00
SUZ12P1	0.00e+00	7.29e-01	0.96	0.52	0.00e+00
SV2B	0.00e+00	6.65e-01	0.925	0.744	0.00e+00
SVIL-AS1	0.00e+00	6.41e-01	0.849	0.493	0.00e+00
SVOP	0.00e+00	5.07e-01	0.838	0.605	0.00e+00
SYBU	0.00e+00	5.02e-01	0.963	0.737	0.00e+00

SYCE1	0.00e+00	3.09e-01	0.559	0.353	0.00e+00
SYMPK	0.00e+00	3.36e-01	0.608	0.408	0.00e+00
SYN2	0.00e+00	9.51e-01	0.992	0.877	0.00e+00
SYN3	0.00e+00	7.17e-01	0.968	0.848	0.00e+00
SYNDIG1	0.00e+00	8.10e-01	0.846	0.637	0.00e+00
SYNJ1	0.00e+00	2.96e-01	0.859	0.622	0.00e+00
SYNJ2	0.00e+00	4.58e-01	0.859	0.603	0.00e+00
SYNPO	0.00e+00	4.10e-01	0.591	0.4	0.00e+00
SYNPO2	0.00e+00	3.72e-01	0.5	0.325	0.00e+00
SYT1	0.00e+00	6.38e-01	0.999	0.972	0.00e+00
SYT14	0.00e+00	4.99e-01	0.949	0.701	0.00e+00
SYT16	0.00e+00	3.59e-01	0.97	0.726	0.00e+00
SYT17	0.00e+00	4.64e-01	0.662	0.473	0.00e+00
SYT7	0.00e+00	4.52e-01	0.816	0.599	0.00e+00
SYT9	0.00e+00	7.63e-01	0.617	0.299	0.00e+00
TAB2	0.00e+00	3.82e-01	0.804	0.556	0.00e+00
TACR3	0.00e+00	8.20e-01	0.225	0.087	0.00e+00
TAF1	0.00e+00	3.62e-01	0.777	0.537	0.00e+00
TAF15	0.00e+00	4.59e-01	0.9	0.569	0.00e+00
TAF1B	0.00e+00	3.49e-01	0.74	0.484	0.00e+00
TAF1D	0.00e+00	3.83e-01	0.853	0.6	0.00e+00
TAF2	0.00e+00	3.44e-01	0.738	0.503	0.00e+00
TAFA1	0.00e+00	6.19e-01	0.915	0.55	0.00e+00
TAFA2	0.00e+00	6.91e-01	0.968	0.561	0.00e+00
TAFA5	0.00e+00	5.32e-01	0.773	0.457	0.00e+00
TAMM41	0.00e+00	3.93e-01	0.715	0.438	0.00e+00

TANC2	0.00e+00	5.51e-01	0.99	0.857	0.00e+00
TANGO2	0.00e+00	3.51e-01	0.464	0.271	0.00e+00
TANGO6	0.00e+00	4.32e-01	0.721	0.486	0.00e+00
TANK	0.00e+00	4.70e-01	0.734	0.465	0.00e+00
TAOK1	0.00e+00	5.20e-01	0.949	0.733	0.00e+00
TAOK3	0.00e+00	2.83e-01	0.862	0.646	0.00e+00
TAPT1	0.00e+00	3.60e-01	0.632	0.404	0.00e+00
TAPT1-AS1	0.00e+00	6.86e-01	0.931	0.562	0.00e+00
TARBP1	0.00e+00	5.37e-01	0.964	0.717	0.00e+00
TARS3	0.00e+00	2.89e-01	0.737	0.441	0.00e+00
TASOR	0.00e+00	4.81e-01	0.729	0.41	0.00e+00
TASOR2	0.00e+00	6.09e-01	0.865	0.493	0.00e+00
TASP1	0.00e+00	3.48e-01	0.888	0.639	0.00e+00
TATDN1	0.00e+00	3.09e-01	0.682	0.445	0.00e+00
TBC1D1	0.00e+00	3.29e-01	0.771	0.544	0.00e+00
TBC1D15	0.00e+00	2.83e-01	0.746	0.516	0.00e+00
TBC1D19	0.00e+00	4.48e-01	0.899	0.652	0.00e+00
TBC1D22A	0.00e+00	6.06e-01	0.873	0.622	0.00e+00
TBC1D32	0.00e+00	3.94e-01	0.916	0.674	0.00e+00
TBC1D5	0.00e+00	4.45e-01	0.974	0.788	0.00e+00
TBC1D9	0.00e+00	3.08e-01	0.742	0.512	0.00e+00
TBC1D9B	0.00e+00	2.68e-01	0.566	0.37	0.00e+00
TBCA	0.00e+00	4.09e-01	0.852	0.586	0.00e+00
TBCD	0.00e+00	4.89e-01	0.797	0.501	0.00e+00
TBCK	0.00e+00	4.99e-01	0.951	0.703	0.00e+00
TBK1	0.00e+00	2.76e-01	0.692	0.467	0.00e+00

TBL1X	0.00e+00	9.71e-01	0.471	0.25	0.00e+00
TBL1XR1	0.00e+00	3.56e-01	0.946	0.733	0.00e+00
TCAIM	0.00e+00	4.04e-01	0.709	0.466	0.00e+00
TCERG1	0.00e+00	2.91e-01	0.878	0.659	0.00e+00
TCF20	0.00e+00	5.72e-01	0.869	0.547	0.00e+00
TCF25	0.00e+00	3.44e-01	0.837	0.634	0.00e+00
TCP10L	0.00e+00	6.44e-01	0.738	0.395	0.00e+00
TDO2	0.00e+00	4.29e-01	0.223	0.088	0.00e+00
TDRD3	0.00e+00	6.04e-01	0.834	0.55	0.00e+00
TDRD7	0.00e+00	3.17e-01	0.515	0.324	0.00e+00
TDRP	0.00e+00	2.57e-01	0.666	0.435	0.00e+00
TEAD1	0.00e+00	5.12e-01	0.798	0.552	0.00e+00
TEK	0.00e+00	3.97e-01	0.355	0.189	0.00e+00
TENM2	0.00e+00	6.00e-01	0.981	0.945	0.00e+00
TENM4	0.00e+00	3.09e-01	0.977	0.632	0.00e+00
TENT2	0.00e+00	4.32e-01	0.903	0.537	0.00e+00
TENT4A	0.00e+00	3.40e-01	0.637	0.404	0.00e+00
TENT4B	0.00e+00	4.67e-01	0.697	0.414	0.00e+00
TERF2IP	0.00e+00	3.73e-01	0.827	0.595	0.00e+00
TESPA1	0.00e+00	-6.65e-01	0.026	0.189	0.00e+00
TET2	0.00e+00	4.05e-01	0.721	0.486	0.00e+00
TET3	0.00e+00	4.63e-01	0.809	0.577	0.00e+00
TEX41	0.00e+00	6.39e-01	0.212	0.057	0.00e+00
TEX9	0.00e+00	2.50e-01	0.528	0.334	0.00e+00
TFAP2D	0.00e+00	4.53e-01	0.302	0.09	0.00e+00
TFB1M	0.00e+00	2.86e-01	0.591	0.39	0.00e+00

TFCP2	0.00e+00	5.13e-01	0.88	0.621	0.00e+00
TFDP2	0.00e+00	4.93e-01	0.909	0.645	0.00e+00
TG	0.00e+00	9.67e-01	0.508	0.228	0.00e+00
TGFB1	0.00e+00	-2.63e-01	0.003	0.102	0.00e+00
THADA	0.00e+00	4.11e-01	0.788	0.535	0.00e+00
THOC1	0.00e+00	3.08e-01	0.757	0.51	0.00e+00
THRB	0.00e+00	5.99e-01	0.914	0.741	0.00e+00
THUMPD2	0.00e+00	3.01e-01	0.608	0.389	0.00e+00
THUMPD3-AS1	0.00e+00	3.13e-01	0.788	0.499	0.00e+00
TIAM1	0.00e+00	8.15e-01	0.975	0.774	0.00e+00
TIAM2	0.00e+00	4.91e-01	0.911	0.655	0.00e+00
TIMM23B	0.00e+00	3.63e-01	0.669	0.437	0.00e+00
TIMP2	0.00e+00	5.29e-01	0.698	0.436	0.00e+00
TJP1	0.00e+00	7.96e-01	0.976	0.622	0.00e+00
TLE5	0.00e+00	3.92e-01	0.62	0.357	0.00e+00
TLK2	0.00e+00	3.03e-01	0.669	0.467	0.00e+00
TM7SF3	0.00e+00	3.03e-01	0.746	0.494	0.00e+00
TMCC1	0.00e+00	5.16e-01	0.965	0.75	0.00e+00
TMED8	0.00e+00	3.25e-01	0.716	0.493	0.00e+00
TMEFF1	0.00e+00	3.57e-01	0.695	0.399	0.00e+00
TMEFF2	0.00e+00	1.24e+00	0.975	0.822	0.00e+00
TMEM106B	0.00e+00	3.28e-01	0.767	0.519	0.00e+00
TMEM117	0.00e+00	8.91e-01	0.91	0.669	0.00e+00
TMEM120B	0.00e+00	4.17e-01	0.726	0.505	0.00e+00
TMEM130	0.00e+00	3.39e-01	0.806	0.599	0.00e+00
TMEM131	0.00e+00	4.16e-01	0.877	0.636	0.00e+00

TMEM132B	0.00e+00	2.70e-01	0.982	0.814	0.00e+00
TMEM132C	0.00e+00	1.37e+00	0.356	0.133	0.00e+00
TMEM132D	0.00e+00	2.91e-01	0.898	0.686	0.00e+00
TMEM135	0.00e+00	5.07e-01	0.897	0.626	0.00e+00
TMEM161B	0.00e+00	2.66e-01	0.681	0.439	0.00e+00
TMEM161B-AS1	0.00e+00	5.59e-01	0.978	0.622	0.00e+00
TMEM164	0.00e+00	3.24e-01	0.62	0.404	0.00e+00
TMEM168	0.00e+00	2.88e-01	0.657	0.445	0.00e+00
TMEM178A	0.00e+00	5.04e-01	0.888	0.636	0.00e+00
TMEM178B	0.00e+00	4.24e-01	0.991	0.852	0.00e+00
TMEM181	0.00e+00	3.59e-01	0.81	0.572	0.00e+00
TMEM184B	0.00e+00	3.10e-01	0.661	0.472	0.00e+00
TMEM232	0.00e+00	4.49e-01	0.954	0.712	0.00e+00
TMEM241	0.00e+00	3.90e-01	0.864	0.612	0.00e+00
TMEM245	0.00e+00	3.93e-01	0.85	0.601	0.00e+00
TMEM260	0.00e+00	3.39e-01	0.787	0.528	0.00e+00
TMEM267	0.00e+00	2.94e-01	0.528	0.323	0.00e+00
TMEM275	0.00e+00	3.03e-01	0.228	0.083	0.00e+00
TMEM41B	0.00e+00	3.67e-01	0.737	0.505	0.00e+00
TMEM65	0.00e+00	3.33e-01	0.731	0.498	0.00e+00
TMEM72-AS1	0.00e+00	4.32e-01	0.583	0.327	0.00e+00
TMEM87B	0.00e+00	3.64e-01	0.436	0.244	0.00e+00
TMEM94	0.00e+00	2.98e-01	0.489	0.292	0.00e+00
TMSB15B-AS1	0.00e+00	4.58e-01	0.578	0.315	0.00e+00
TMTC3	0.00e+00	3.81e-01	0.703	0.464	0.00e+00
TMX3	0.00e+00	3.00e-01	0.737	0.494	0.00e+00

TNFSF13B	0.00e+00	3.63e-01	0.536	0.338	0.00e+00
TNIK	0.00e+00	8.14e-01	0.964	0.732	0.00e+00
TNK2	0.00e+00	3.65e-01	0.704	0.476	0.00e+00
TNKS	0.00e+00	4.91e-01	0.96	0.62	0.00e+00
TNNI3K	0.00e+00	4.60e-01	0.556	0.302	0.00e+00
TNPO1	0.00e+00	3.40e-01	0.929	0.701	0.00e+00
TNPO3	0.00e+00	2.65e-01	0.699	0.484	0.00e+00
TNR	0.00e+00	6.82e-01	0.957	0.804	0.00e+00
TNRC18	0.00e+00	3.42e-01	0.722	0.532	0.00e+00
TNRC6A	0.00e+00	8.25e-01	0.992	0.82	0.00e+00
TNRC6B	0.00e+00	5.30e-01	0.986	0.827	0.00e+00
TNRC6C	0.00e+00	3.99e-01	0.958	0.754	0.00e+00
TOGARAM1	0.00e+00	4.08e-01	0.837	0.565	0.00e+00
TOGARAM2	0.00e+00	4.56e-01	0.462	0.267	0.00e+00
TOM1L1	0.00e+00	2.52e-01	0.741	0.511	0.00e+00
TOM1L2	0.00e+00	4.76e-01	0.852	0.62	0.00e+00
TOP1	0.00e+00	3.20e-01	0.824	0.585	0.00e+00
TOP2B	0.00e+00	2.74e-01	0.771	0.555	0.00e+00
TOP3A	0.00e+00	2.57e-01	0.507	0.315	0.00e+00
TOR1AIP2	0.00e+00	3.10e-01	0.768	0.52	0.00e+00
TOX	0.00e+00	1.39e+00	0.404	0.27	0.00e+00
TOX2	0.00e+00	3.55e-01	0.23	0.084	0.00e+00
TP53BP1	0.00e+00	2.85e-01	0.822	0.599	0.00e+00
TPD52	0.00e+00	3.99e-01	0.721	0.5	0.00e+00
TPD52L1	0.00e+00	5.03e-01	0.394	0.185	0.00e+00
TPGS2	0.00e+00	3.94e-01	0.705	0.475	0.00e+00

TPK1	0.00e+00	4.38e-01	0.713	0.454	0.00e+00
TPM1	0.00e+00	2.86e-01	0.773	0.529	0.00e+00
TPP2	0.00e+00	3.71e-01	0.704	0.471	0.00e+00
TPST1	0.00e+00	3.25e-01	0.893	0.652	0.00e+00
TPT1-AS1	0.00e+00	5.25e-01	0.851	0.586	0.00e+00
TPTE2P1	0.00e+00	4.00e-01	0.673	0.42	0.00e+00
TPTE2P5	0.00e+00	4.56e-01	0.659	0.358	0.00e+00
TPTEP2	0.00e+00	2.97e-01	0.508	0.305	0.00e+00
TRA2A	0.00e+00	5.30e-01	0.926	0.659	0.00e+00
TRA2B	0.00e+00	3.15e-01	0.717	0.469	0.00e+00
TRAF3	0.00e+00	4.50e-01	0.79	0.558	0.00e+00
TRAF3IP1	0.00e+00	2.51e-01	0.673	0.473	0.00e+00
TRAF3IP2-AS1	0.00e+00	6.65e-01	0.931	0.532	0.00e+00
TRAK1	0.00e+00	3.58e-01	0.766	0.551	0.00e+00
TRAK2	0.00e+00	4.10e-01	0.819	0.559	0.00e+00
TRANK1	0.00e+00	3.94e-01	0.812	0.552	0.00e+00
TRAP1	0.00e+00	4.23e-01	0.687	0.464	0.00e+00
TRAPPC10	0.00e+00	2.85e-01	0.65	0.448	0.00e+00
TRAPPC11	0.00e+00	3.32e-01	0.711	0.481	0.00e+00
TRAPPC12	0.00e+00	3.51e-01	0.797	0.507	0.00e+00
TRAPPC6B	0.00e+00	2.62e-01	0.692	0.471	0.00e+00
TRAPPC8	0.00e+00	2.56e-01	0.763	0.528	0.00e+00
TRAPPC9	0.00e+00	4.04e-01	0.857	0.645	0.00e+00
TRERF1	0.00e+00	2.60e-01	0.834	0.615	0.00e+00
TRHR	0.00e+00	3.93e-01	0.237	0.081	0.00e+00
TRIM14	0.00e+00	3.29e-01	0.422	0.242	0.00e+00

TRIM2	0.00e+00	3.86e-01	0.954	0.752	0.00e+00
TRIM24	0.00e+00	3.71e-01	0.735	0.497	0.00e+00
TRIM33	0.00e+00	4.07e-01	0.908	0.646	0.00e+00
TRIM37	0.00e+00	2.52e-01	0.811	0.585	0.00e+00
TRIM44	0.00e+00	4.22e-01	0.913	0.657	0.00e+00
TRIM54	0.00e+00	5.12e-01	0.494	0.26	0.00e+00
TRIM9	0.00e+00	2.80e-01	0.984	0.814	0.00e+00
TRIO	0.00e+00	3.67e-01	0.986	0.835	0.00e+00
TRIP12	0.00e+00	3.93e-01	0.913	0.674	0.00e+00
TRIP4	0.00e+00	3.96e-01	0.672	0.435	0.00e+00
TRMT11	0.00e+00	6.19e-01	0.952	0.588	0.00e+00
TRMT61B	0.00e+00	2.94e-01	0.674	0.45	0.00e+00
TRMT9B	0.00e+00	3.98e-01	0.517	0.295	0.00e+00
TRPC1	0.00e+00	2.95e-01	0.915	0.674	0.00e+00
TRPC4	0.00e+00	7.51e-01	0.797	0.567	0.00e+00
TRPC4AP	0.00e+00	3.34e-01	0.755	0.539	0.00e+00
TRPM3	0.00e+00	2.00e+00	0.852	0.586	0.00e+00
TRPM7	0.00e+00	3.84e-01	0.833	0.597	0.00e+00
TRRAP	0.00e+00	3.66e-01	0.785	0.55	0.00e+00
TSC1	0.00e+00	2.59e-01	0.722	0.498	0.00e+00
TSC22D1	0.00e+00	4.13e-01	0.976	0.763	0.00e+00
TSC22D2	0.00e+00	4.54e-01	0.801	0.525	0.00e+00
TSEN2	0.00e+00	4.10e-01	0.715	0.465	0.00e+00
TSG101	0.00e+00	2.83e-01	0.629	0.427	0.00e+00
TSGA10	0.00e+00	2.61e-01	0.771	0.556	0.00e+00
TSHZ2	0.00e+00	1.90e+00	0.491	0.332	0.00e+00

TSNARE1	0.00e+00	2.80e-01	0.576	0.39	0.00e+00
TSPAN5	0.00e+00	3.89e-01	0.959	0.765	0.00e+00
TSPAN7	0.00e+00	3.33e-01	0.915	0.586	0.00e+00
TSPOAP1	0.00e+00	5.33e-01	0.734	0.433	0.00e+00
TSPYL2	0.00e+00	2.70e-01	0.705	0.493	0.00e+00
TTBK2	0.00e+00	3.09e-01	0.861	0.629	0.00e+00
TTC13	0.00e+00	4.19e-01	0.813	0.547	0.00e+00
TTC14	0.00e+00	5.94e-01	0.935	0.667	0.00e+00
TTC17	0.00e+00	4.28e-01	0.935	0.707	0.00e+00
TTC19	0.00e+00	3.07e-01	0.883	0.613	0.00e+00
TTC21B	0.00e+00	3.19e-01	0.765	0.526	0.00e+00
TTC26	0.00e+00	3.57e-01	0.562	0.353	0.00e+00
TTC28	0.00e+00	7.83e-01	0.965	0.749	0.00e+00
TTC28-AS1	0.00e+00	3.97e-01	0.737	0.452	0.00e+00
TTC3	0.00e+00	5.15e-01	0.997	0.885	0.00e+00
TTC37	0.00e+00	3.29e-01	0.895	0.666	0.00e+00
TTC39C	0.00e+00	3.29e-01	0.83	0.588	0.00e+00
TTC7B	0.00e+00	7.12e-01	0.943	0.712	0.00e+00
TTC8	0.00e+00	3.41e-01	0.794	0.52	0.00e+00
TTL	0.00e+00	2.61e-01	0.681	0.475	0.00e+00
TTLL3	0.00e+00	3.05e-01	0.548	0.335	0.00e+00
TTLL5	0.00e+00	3.00e-01	0.843	0.597	0.00e+00
TTLL7	0.00e+00	4.65e-01	0.968	0.764	0.00e+00
TTN-AS1	0.00e+00	4.88e-01	0.787	0.51	0.00e+00
TTY10	0.00e+00	6.04e-01	0.707	0.405	0.00e+00
TTY14	0.00e+00	6.47e-01	0.979	0.606	0.00e+00

TUBGCP3	0.00e+00	3.68e-01	0.676	0.417	0.00e+00
TULP4	0.00e+00	4.30e-01	0.862	0.65	0.00e+00
TUSC3	0.00e+00	5.30e-01	0.912	0.624	0.00e+00
TUT4	0.00e+00	6.07e-01	0.893	0.53	0.00e+00
TVP23A	0.00e+00	3.95e-01	0.672	0.446	0.00e+00
TVP23C	0.00e+00	3.05e-01	0.704	0.408	0.00e+00
TXLNGY	0.00e+00	3.00e-01	0.619	0.361	0.00e+00
TXNDC16	0.00e+00	2.88e-01	0.678	0.445	0.00e+00
TXNL4A	0.00e+00	3.68e-01	0.729	0.495	0.00e+00
TYW1	0.00e+00	2.82e-01	0.798	0.55	0.00e+00
UBA6	0.00e+00	3.10e-01	0.777	0.54	0.00e+00
UBA6-AS1	0.00e+00	5.79e-01	0.891	0.558	0.00e+00
UBAC2	0.00e+00	3.77e-01	0.862	0.611	0.00e+00
UBAP1	0.00e+00	3.14e-01	0.684	0.467	0.00e+00
UBAP1L	0.00e+00	3.47e-01	0.714	0.459	0.00e+00
UBAP2	0.00e+00	3.62e-01	0.775	0.545	0.00e+00
UBASH3B	0.00e+00	6.38e-01	0.498	0.257	0.00e+00
UBE2B	0.00e+00	2.64e-01	0.861	0.618	0.00e+00
UBE2D2	0.00e+00	3.74e-01	0.811	0.573	0.00e+00
UBE2D3	0.00e+00	4.27e-01	0.921	0.658	0.00e+00
UBE2E1	0.00e+00	3.52e-01	0.659	0.446	0.00e+00
UBE2E2	0.00e+00	4.42e-01	0.984	0.821	0.00e+00
UBE2E3	0.00e+00	2.83e-01	0.861	0.619	0.00e+00
UBE2F	0.00e+00	2.57e-01	0.465	0.278	0.00e+00
UBE2G2	0.00e+00	3.18e-01	0.793	0.526	0.00e+00
UBE2H	0.00e+00	3.81e-01	0.916	0.659	0.00e+00

UBE2K	0.00e+00	4.14e-01	0.907	0.664	0.00e+00
UBE2QL1	0.00e+00	3.15e-01	0.542	0.346	0.00e+00
UBE2R2	0.00e+00	4.37e-01	0.873	0.625	0.00e+00
UBE2V1	0.00e+00	3.00e-01	0.681	0.404	0.00e+00
UBE2W	0.00e+00	4.44e-01	0.815	0.45	0.00e+00
UBE3C	0.00e+00	5.31e-01	0.897	0.646	0.00e+00
UBE3D	0.00e+00	5.42e-01	0.795	0.509	0.00e+00
UBE4A	0.00e+00	2.94e-01	0.63	0.433	0.00e+00
UBE4B	0.00e+00	5.38e-01	0.894	0.639	0.00e+00
UBN2	0.00e+00	4.49e-01	0.9	0.628	0.00e+00
UBP1	0.00e+00	3.77e-01	0.783	0.519	0.00e+00
UBR1	0.00e+00	4.40e-01	0.914	0.664	0.00e+00
UBR2	0.00e+00	3.82e-01	0.905	0.663	0.00e+00
UBR3	0.00e+00	4.89e-01	0.974	0.775	0.00e+00
UBR4	0.00e+00	4.04e-01	0.789	0.573	0.00e+00
UBR5	0.00e+00	3.85e-01	0.956	0.733	0.00e+00
UBXN2A	0.00e+00	3.80e-01	0.62	0.389	0.00e+00
UBXN2B	0.00e+00	3.45e-01	0.736	0.495	0.00e+00
UBXN4	0.00e+00	3.73e-01	0.887	0.632	0.00e+00
UBXN7	0.00e+00	3.32e-01	0.626	0.411	0.00e+00
UFM1	0.00e+00	3.47e-01	0.614	0.394	0.00e+00
UGGT1	0.00e+00	2.70e-01	0.641	0.442	0.00e+00
UGGT2	0.00e+00	3.19e-01	0.933	0.71	0.00e+00
UGP2	0.00e+00	2.69e-01	0.709	0.494	0.00e+00
UHRF1BP1L	0.00e+00	2.64e-01	0.761	0.537	0.00e+00
UIMC1	0.00e+00	2.98e-01	0.784	0.539	0.00e+00

ULK2	0.00e+00	3.81e-01	0.809	0.57	0.00e+00
ULK4	0.00e+00	2.93e-01	0.896	0.663	0.00e+00
UNC13C	0.00e+00	7.25e-01	0.763	0.601	0.00e+00
UNC5A	0.00e+00	3.72e-01	0.699	0.482	0.00e+00
UNC5B	0.00e+00	4.00e-01	0.361	0.147	0.00e+00
UNC5C	0.00e+00	1.15e+00	0.98	0.811	0.00e+00
UNC79	0.00e+00	5.55e-01	0.99	0.642	0.00e+00
UNC80	0.00e+00	4.92e-01	0.977	0.761	0.00e+00
UPF2	0.00e+00	2.92e-01	0.684	0.473	0.00e+00
UPF3A	0.00e+00	2.55e-01	0.782	0.548	0.00e+00
UPP2	0.00e+00	8.52e-01	0.945	0.715	0.00e+00
UQCC1	0.00e+00	3.57e-01	0.765	0.507	0.00e+00
UQCRC2	0.00e+00	3.24e-01	0.734	0.471	0.00e+00
URGCP	0.00e+00	3.87e-01	0.856	0.539	0.00e+00
URI1	0.00e+00	3.35e-01	0.793	0.555	0.00e+00
USF3	0.00e+00	3.52e-01	0.571	0.365	0.00e+00
USO1	0.00e+00	2.70e-01	0.74	0.518	0.00e+00
USP10	0.00e+00	3.17e-01	0.692	0.466	0.00e+00
USP14	0.00e+00	3.43e-01	0.809	0.567	0.00e+00
USP15	0.00e+00	3.12e-01	0.881	0.63	0.00e+00
USP24	0.00e+00	3.89e-01	0.854	0.597	0.00e+00
USP25	0.00e+00	6.21e-01	0.948	0.72	0.00e+00
USP28	0.00e+00	3.51e-01	0.663	0.435	0.00e+00
USP31	0.00e+00	3.91e-01	0.791	0.524	0.00e+00
USP32	0.00e+00	4.71e-01	0.863	0.615	0.00e+00
USP33	0.00e+00	3.56e-01	0.912	0.666	0.00e+00

USP34	0.00e+00	4.49e-01	0.967	0.782	0.00e+00
USP37	0.00e+00	3.26e-01	0.714	0.493	0.00e+00
USP40	0.00e+00	2.99e-01	0.576	0.377	0.00e+00
USP47	0.00e+00	4.29e-01	0.897	0.677	0.00e+00
USP48	0.00e+00	3.62e-01	0.803	0.573	0.00e+00
USP49	0.00e+00	4.01e-01	0.764	0.507	0.00e+00
USP8	0.00e+00	3.48e-01	0.75	0.519	0.00e+00
USP9X	0.00e+00	3.14e-01	0.815	0.59	0.00e+00
USP9Y	0.00e+00	6.17e-01	0.957	0.649	0.00e+00
UTP23	0.00e+00	2.77e-01	0.767	0.522	0.00e+00
UTY	0.00e+00	6.07e-01	0.938	0.623	0.00e+00
UVRAG	0.00e+00	4.05e-01	0.906	0.656	0.00e+00
UVSSA	0.00e+00	3.42e-01	0.539	0.326	0.00e+00
VAPA	0.00e+00	3.25e-01	0.84	0.579	0.00e+00
VASH2	0.00e+00	3.41e-01	0.271	0.078	0.00e+00
VAT1L	0.00e+00	4.58e-01	0.51	0.305	0.00e+00
VCL	0.00e+00	4.46e-01	0.727	0.488	0.00e+00
VEZT	0.00e+00	3.51e-01	0.945	0.703	0.00e+00
VGLL4	0.00e+00	4.67e-01	0.846	0.604	0.00e+00
VHL	0.00e+00	3.05e-01	0.531	0.332	0.00e+00
VIRMA	0.00e+00	2.75e-01	0.563	0.356	0.00e+00
VKORC1L1	0.00e+00	3.85e-01	0.714	0.502	0.00e+00
VMP1	0.00e+00	3.32e-01	0.816	0.574	0.00e+00
VOPP1	0.00e+00	5.12e-01	0.759	0.516	0.00e+00
VPS13A	0.00e+00	5.56e-01	0.964	0.731	0.00e+00
VPS13B	0.00e+00	5.35e-01	0.97	0.763	0.00e+00

VPS13C	0.00e+00	3.46e-01	0.933	0.72	0.00e+00
VPS13D	0.00e+00	3.25e-01	0.902	0.672	0.00e+00
VPS35L	0.00e+00	5.01e-01	0.781	0.46	0.00e+00
VPS39	0.00e+00	2.54e-01	0.612	0.415	0.00e+00
VPS41	0.00e+00	3.95e-01	0.855	0.593	0.00e+00
VPS45	0.00e+00	4.33e-01	0.848	0.58	0.00e+00
VPS4B	0.00e+00	2.57e-01	0.58	0.375	0.00e+00
VPS50	0.00e+00	4.66e-01	0.87	0.592	0.00e+00
VPS53	0.00e+00	5.12e-01	0.904	0.586	0.00e+00
VPS54	0.00e+00	4.77e-01	0.822	0.554	0.00e+00
VPS8	0.00e+00	3.30e-01	0.895	0.644	0.00e+00
VRK1	0.00e+00	3.54e-01	0.653	0.417	0.00e+00
VSTM2B	0.00e+00	4.36e-01	0.743	0.521	0.00e+00
VSTM2L	0.00e+00	4.00e-01	0.582	0.365	0.00e+00
VTI1A	0.00e+00	4.78e-01	0.954	0.723	0.00e+00
VWA5A	0.00e+00	4.18e-01	0.447	0.233	0.00e+00
VWA5B2	0.00e+00	2.65e-01	0.663	0.441	0.00e+00
VWA8	0.00e+00	5.39e-01	0.931	0.663	0.00e+00
VWC2	0.00e+00	1.36e+00	0.696	0.33	0.00e+00
WAC	0.00e+00	4.89e-01	0.902	0.637	0.00e+00
WAC-AS1	0.00e+00	2.79e-01	0.597	0.372	0.00e+00
WAPL	0.00e+00	3.37e-01	0.672	0.457	0.00e+00
WARS1	0.00e+00	3.38e-01	0.471	0.274	0.00e+00
WARS2-AS1	0.00e+00	4.26e-01	0.625	0.386	0.00e+00
WASF1	0.00e+00	2.54e-01	0.931	0.72	0.00e+00
WASF2	0.00e+00	3.31e-01	0.511	0.302	0.00e+00

WASF3	0.00e+00	3.04e-01	0.594	0.398	0.00e+00
WASHC5	0.00e+00	3.36e-01	0.566	0.357	0.00e+00
WASL	0.00e+00	3.54e-01	0.742	0.499	0.00e+00
WDFY2	0.00e+00	2.85e-01	0.759	0.532	0.00e+00
WDFY3	0.00e+00	5.04e-01	0.953	0.724	0.00e+00
WDPCP	0.00e+00	5.04e-01	0.955	0.727	0.00e+00
WDR17	0.00e+00	4.73e-01	0.961	0.712	0.00e+00
WDR19	0.00e+00	5.06e-01	0.751	0.477	0.00e+00
WDR20	0.00e+00	3.16e-01	0.705	0.471	0.00e+00
WDR26	0.00e+00	4.15e-01	0.77	0.525	0.00e+00
WDR33	0.00e+00	3.11e-01	0.82	0.561	0.00e+00
WDR37	0.00e+00	4.02e-01	0.843	0.585	0.00e+00
WDR44	0.00e+00	4.27e-01	0.713	0.472	0.00e+00
WDR7	0.00e+00	5.10e-01	0.961	0.745	0.00e+00
WDR70	0.00e+00	4.27e-01	0.937	0.688	0.00e+00
WDTC1	0.00e+00	3.00e-01	0.528	0.345	0.00e+00
WNK1	0.00e+00	4.24e-01	0.935	0.697	0.00e+00
WNK2	0.00e+00	5.10e-01	0.934	0.694	0.00e+00
WRN	0.00e+00	3.47e-01	0.804	0.545	0.00e+00
WSB1	0.00e+00	3.03e-01	0.913	0.653	0.00e+00
WSCD2	0.00e+00	3.30e-01	0.623	0.426	0.00e+00
WTAP	0.00e+00	2.71e-01	0.671	0.446	0.00e+00
WWC1	0.00e+00	4.27e-01	0.755	0.543	0.00e+00
WWC2	0.00e+00	5.14e-01	0.825	0.584	0.00e+00
WWOX	0.00e+00	5.83e-01	0.937	0.751	0.00e+00
WWP1	0.00e+00	5.16e-01	0.758	0.491	0.00e+00

XIAP	0.00e+00	3.48e-01	0.635	0.42	0.00e+00
XKR4	0.00e+00	7.80e-01	0.991	0.893	0.00e+00
XKR6	0.00e+00	4.29e-01	0.802	0.571	0.00e+00
XPNPEP3	0.00e+00	3.17e-01	0.571	0.362	0.00e+00
XPO1	0.00e+00	4.23e-01	0.856	0.628	0.00e+00
XPO4	0.00e+00	3.79e-01	0.794	0.526	0.00e+00
XPO6	0.00e+00	4.00e-01	0.727	0.49	0.00e+00
XPO7	0.00e+00	4.19e-01	0.787	0.526	0.00e+00
XPR1	0.00e+00	3.18e-01	0.866	0.639	0.00e+00
XRCC5	0.00e+00	3.18e-01	0.836	0.588	0.00e+00
XRN1	0.00e+00	3.81e-01	0.871	0.622	0.00e+00
XRN2	0.00e+00	2.55e-01	0.669	0.456	0.00e+00
XRRA1	0.00e+00	4.70e-01	0.797	0.5	0.00e+00
XXYLT1	0.00e+00	3.53e-01	0.586	0.379	0.00e+00
XYLB	0.00e+00	3.67e-01	0.65	0.411	0.00e+00
YAF2	0.00e+00	4.39e-01	0.881	0.619	0.00e+00
YARS1	0.00e+00	3.53e-01	0.541	0.327	0.00e+00
YEATS2	0.00e+00	4.18e-01	0.889	0.637	0.00e+00
YIPF4	0.00e+00	3.23e-01	0.716	0.495	0.00e+00
YLPM1	0.00e+00	4.63e-01	0.904	0.648	0.00e+00
YME1L1	0.00e+00	3.06e-01	0.787	0.544	0.00e+00
YPEL2	0.00e+00	3.57e-01	0.674	0.423	0.00e+00
YTHDC1	0.00e+00	3.69e-01	0.713	0.419	0.00e+00
YTHDC2	0.00e+00	2.65e-01	0.888	0.63	0.00e+00
YTHDF3	0.00e+00	3.02e-01	0.685	0.455	0.00e+00
YWHAE	0.00e+00	4.40e-01	0.835	0.538	0.00e+00

YWHAQ	0.00e+00	2.79e-01	0.766	0.537	0.00e+00
YWHAZ	0.00e+00	2.79e-01	0.942	0.718	0.00e+00
YY1	0.00e+00	2.86e-01	0.673	0.474	0.00e+00
ZBED5	0.00e+00	2.68e-01	0.594	0.388	0.00e+00
ZBTB1	0.00e+00	2.67e-01	0.606	0.401	0.00e+00
ZBTB20	0.00e+00	7.92e-01	0.753	0.472	0.00e+00
ZBTB38	0.00e+00	3.63e-01	0.867	0.61	0.00e+00
ZBTB4	0.00e+00	3.32e-01	0.642	0.419	0.00e+00
ZBTB44	0.00e+00	3.43e-01	0.687	0.461	0.00e+00
ZBTB7A	0.00e+00	3.79e-01	0.655	0.451	0.00e+00
ZBTB8OS	0.00e+00	5.62e-01	0.876	0.605	0.00e+00
ZC2HC1A	0.00e+00	4.32e-01	0.828	0.583	0.00e+00
ZC3H11A	0.00e+00	3.47e-01	0.788	0.477	0.00e+00
ZC3H12C	0.00e+00	3.34e-01	0.582	0.372	0.00e+00
ZC3H14	0.00e+00	3.20e-01	0.865	0.608	0.00e+00
ZC3H6	0.00e+00	3.32e-01	0.707	0.471	0.00e+00
ZC3H8	0.00e+00	3.65e-01	0.68	0.448	0.00e+00
ZC4H2	0.00e+00	4.53e-01	0.663	0.433	0.00e+00
ZCCHC14	0.00e+00	3.17e-01	0.69	0.488	0.00e+00
ZCCHC7	0.00e+00	5.50e-01	0.968	0.746	0.00e+00
ZCWPW2	0.00e+00	3.97e-01	0.621	0.379	0.00e+00
ZDHHC14	0.00e+00	6.96e-01	0.96	0.697	0.00e+00
ZDHHC17	0.00e+00	2.96e-01	0.834	0.589	0.00e+00
ZDHHC2	0.00e+00	4.12e-01	0.46	0.224	0.00e+00
ZDHHC20	0.00e+00	5.55e-01	0.864	0.582	0.00e+00
ZDHHC21	0.00e+00	3.82e-01	0.913	0.649	0.00e+00

ZEB2	0.00e+00	1.11e+00	0.842	0.555	0.00e+00
ZER1	0.00e+00	5.14e-01	0.875	0.632	0.00e+00
ZFAND3	0.00e+00	4.84e-01	0.984	0.801	0.00e+00
ZFC3H1	0.00e+00	3.02e-01	0.746	0.511	0.00e+00
ZFHX2-AS1	0.00e+00	3.10e-01	0.381	0.203	0.00e+00
ZFHX3	0.00e+00	1.13e+00	0.778	0.4	0.00e+00
ZFHX4	0.00e+00	3.88e-01	0.31	0.111	0.00e+00
ZFP14	0.00e+00	3.39e-01	0.611	0.399	0.00e+00
ZFP64	0.00e+00	3.55e-01	0.568	0.378	0.00e+00
ZFP90	0.00e+00	4.09e-01	0.738	0.487	0.00e+00
ZFPM2	0.00e+00	2.01e+00	0.941	0.685	0.00e+00
ZFPM2-AS1	0.00e+00	1.19e+00	0.614	0.247	0.00e+00
ZFR	0.00e+00	3.40e-01	0.887	0.648	0.00e+00
ZFR2	0.00e+00	4.98e-01	0.808	0.561	0.00e+00
ZFYVE16	0.00e+00	2.61e-01	0.825	0.581	0.00e+00
ZFYVE28	0.00e+00	4.22e-01	0.893	0.668	0.00e+00
ZFYVE9	0.00e+00	4.54e-01	0.883	0.643	0.00e+00
ZHX3	0.00e+00	3.30e-01	0.847	0.6	0.00e+00
ZIM2-AS1	0.00e+00	3.13e-01	0.474	0.286	0.00e+00
ZKSCAN1	0.00e+00	3.20e-01	0.804	0.572	0.00e+00
ZMAT1	0.00e+00	3.75e-01	0.721	0.466	0.00e+00
ZMAT3	0.00e+00	3.27e-01	0.619	0.396	0.00e+00
ZMIZ1	0.00e+00	3.82e-01	0.498	0.313	0.00e+00
ZMIZ1-AS1	0.00e+00	5.39e-01	0.515	0.268	0.00e+00
ZMYM2	0.00e+00	4.49e-01	0.951	0.715	0.00e+00
ZMYM4	0.00e+00	4.62e-01	0.899	0.64	0.00e+00

ZMYND11	0.00e+00	4.90e-01	0.894	0.633	0.00e+00
ZMYND8	0.00e+00	6.67e-01	0.916	0.702	0.00e+00
ZNF131	0.00e+00	4.34e-01	0.823	0.574	0.00e+00
ZNF133	0.00e+00	3.07e-01	0.677	0.464	0.00e+00
ZNF138	0.00e+00	3.25e-01	0.715	0.468	0.00e+00
ZNF148	0.00e+00	3.96e-01	0.933	0.692	0.00e+00
ZNF207	0.00e+00	2.98e-01	0.843	0.579	0.00e+00
ZNF235	0.00e+00	4.40e-01	0.67	0.434	0.00e+00
ZNF248	0.00e+00	3.16e-01	0.889	0.607	0.00e+00
ZNF25	0.00e+00	2.68e-01	0.692	0.468	0.00e+00
ZNF251	0.00e+00	3.54e-01	0.764	0.484	0.00e+00
ZNF254	0.00e+00	3.40e-01	0.774	0.524	0.00e+00
ZNF26	0.00e+00	3.65e-01	0.598	0.385	0.00e+00
ZNF271P	0.00e+00	4.14e-01	0.631	0.38	0.00e+00
ZNF273	0.00e+00	2.97e-01	0.673	0.447	0.00e+00
ZNF280D	0.00e+00	3.68e-01	0.867	0.592	0.00e+00
ZNF292	0.00e+00	4.51e-01	0.96	0.721	0.00e+00
ZNF318	0.00e+00	3.84e-01	0.727	0.488	0.00e+00
ZNF326	0.00e+00	3.21e-01	0.74	0.511	0.00e+00
ZNF337-AS1	0.00e+00	2.98e-01	0.516	0.31	0.00e+00
ZNF33A	0.00e+00	3.16e-01	0.664	0.457	0.00e+00
ZNF345	0.00e+00	3.14e-01	0.51	0.324	0.00e+00
ZNF346	0.00e+00	3.97e-01	0.701	0.474	0.00e+00
ZNF347	0.00e+00	2.90e-01	0.395	0.223	0.00e+00
ZNF365	0.00e+00	-4.57e-01	0.019	0.141	0.00e+00
ZNF37BP	0.00e+00	5.20e-01	0.748	0.4	0.00e+00

ZNF382	0.00e+00	2.57e-01	0.655	0.45	0.00e+00
ZNF385B	0.00e+00	4.21e-01	0.717	0.569	0.00e+00
ZNF398	0.00e+00	2.79e-01	0.652	0.438	0.00e+00
ZNF407	0.00e+00	4.56e-01	0.887	0.623	0.00e+00
ZNF410	0.00e+00	2.58e-01	0.469	0.271	0.00e+00
ZNF420	0.00e+00	3.64e-01	0.703	0.468	0.00e+00
ZNF429	0.00e+00	2.82e-01	0.593	0.391	0.00e+00
ZNF431	0.00e+00	3.87e-01	0.588	0.354	0.00e+00
ZNF438	0.00e+00	2.83e-01	0.721	0.498	0.00e+00
ZNF451	0.00e+00	4.18e-01	0.856	0.583	0.00e+00
ZNF483	0.00e+00	3.72e-01	0.915	0.647	0.00e+00
ZNF518A	0.00e+00	6.25e-01	0.892	0.619	0.00e+00
ZNF519	0.00e+00	3.53e-01	0.743	0.509	0.00e+00
ZNF529	0.00e+00	2.69e-01	0.736	0.495	0.00e+00
ZNF532	0.00e+00	3.95e-01	0.895	0.644	0.00e+00
ZNF536	0.00e+00	7.55e-01	0.472	0.288	0.00e+00
ZNF549	0.00e+00	3.08e-01	0.568	0.372	0.00e+00
ZNF559	0.00e+00	3.05e-01	0.562	0.335	0.00e+00
ZNF56	0.00e+00	2.88e-01	0.605	0.365	0.00e+00
ZNF568	0.00e+00	2.98e-01	0.579	0.369	0.00e+00
ZNF573	0.00e+00	3.06e-01	0.575	0.37	0.00e+00
ZNF577	0.00e+00	3.68e-01	0.627	0.396	0.00e+00
ZNF586	0.00e+00	4.94e-01	0.744	0.499	0.00e+00
ZNF589	0.00e+00	3.76e-01	0.636	0.415	0.00e+00
ZNF608	0.00e+00	3.65e-01	0.73	0.493	0.00e+00
ZNF609	0.00e+00	5.99e-01	0.958	0.737	0.00e+00

ZNF618	0.00e+00	4.60e-01	0.595	0.354	0.00e+00
ZNF638	0.00e+00	5.00e-01	0.978	0.796	0.00e+00
ZNF644	0.00e+00	3.67e-01	0.866	0.598	0.00e+00
ZNF652	0.00e+00	4.18e-01	0.753	0.515	0.00e+00
ZNF654	0.00e+00	4.34e-01	0.741	0.463	0.00e+00
ZNF66	0.00e+00	2.71e-01	0.362	0.177	0.00e+00
ZNF675	0.00e+00	5.56e-01	0.717	0.488	0.00e+00
ZNF704	0.00e+00	4.88e-01	0.851	0.607	0.00e+00
ZNF706	0.00e+00	4.06e-01	0.861	0.599	0.00e+00
ZNF713	0.00e+00	3.07e-01	0.481	0.275	0.00e+00
ZNF714	0.00e+00	3.00e-01	0.558	0.347	0.00e+00
ZNF717	0.00e+00	3.68e-01	0.684	0.437	0.00e+00
ZNF718	0.00e+00	3.40e-01	0.634	0.384	0.00e+00
ZNF736	0.00e+00	3.43e-01	0.671	0.414	0.00e+00
ZNF75D	0.00e+00	3.51e-01	0.466	0.279	0.00e+00
ZNF767P	0.00e+00	4.43e-01	0.696	0.396	0.00e+00
ZNF780B	0.00e+00	3.75e-01	0.776	0.477	0.00e+00
ZNF782	0.00e+00	3.88e-01	0.716	0.464	0.00e+00
ZNF790-AS1	0.00e+00	2.89e-01	0.578	0.357	0.00e+00
ZNF804A	0.00e+00	9.25e-01	0.865	0.647	0.00e+00
ZNF815P	0.00e+00	3.17e-01	0.536	0.337	0.00e+00
ZNF821	0.00e+00	2.81e-01	0.67	0.452	0.00e+00
ZNF827	0.00e+00	4.23e-01	0.695	0.488	0.00e+00
ZNF831	0.00e+00	5.38e-01	0.74	0.46	0.00e+00
ZNF84	0.00e+00	2.61e-01	0.652	0.445	0.00e+00
ZNF875	0.00e+00	4.07e-01	0.667	0.389	0.00e+00

ZNF876P	0.00e+00	3.88e-01	0.557	0.322	0.00e+00
ZNF91	0.00e+00	4.76e-01	0.917	0.707	0.00e+00
ZNHIT6	0.00e+00	2.55e-01	0.637	0.424	0.00e+00
ZNRD1ASP	0.00e+00	3.69e-01	0.514	0.283	0.00e+00
ZNRF1	0.00e+00	2.92e-01	0.763	0.537	0.00e+00
ZNRF2P2	0.00e+00	5.61e-01	0.749	0.418	0.00e+00
ZRANB2	0.00e+00	4.51e-01	0.934	0.691	0.00e+00
ZRANB2-AS2	0.00e+00	4.73e-01	0.572	0.32	0.00e+00
ZRANB3	0.00e+00	3.20e-01	0.885	0.632	0.00e+00
ZSCAN16-AS1	0.00e+00	2.85e-01	0.528	0.315	0.00e+00
ZSCAN30	0.00e+00	2.99e-01	0.54	0.339	0.00e+00
ZSCAN5A	0.00e+00	5.02e-01	0.682	0.436	0.00e+00
ZSWIM5	0.00e+00	2.69e-01	0.834	0.618	0.00e+00
ZSWIM6	0.00e+00	4.60e-01	0.938	0.716	0.00e+00
ZXDC	0.00e+00	4.24e-01	0.747	0.493	0.00e+00
ZYG11B	0.00e+00	2.58e-01	0.789	0.579	0.00e+00
ZZEF1	0.00e+00	3.58e-01	0.73	0.516	0.00e+00
ZZZ3	0.00e+00	3.84e-01	0.868	0.585	0.00e+00
PIGU	4.57e-308	2.59e-01	0.617	0.423	1.86e-303
SH3BP5	6.93e-308	2.94e-01	0.73	0.525	2.82e-303
CCDC34	7.67e-308	2.77e-01	0.447	0.272	3.12e-303
TRDMT1	1.39e-307	3.00e-01	0.439	0.263	5.65e-303
LSP1P4	2.69e-307	2.57e-01	0.38	0.207	1.10e-302
NDUFAF6	2.69e-307	2.87e-01	0.639	0.441	1.10e-302
ACP6	3.03e-307	2.83e-01	0.326	0.17	1.23e-302
PUDP	3.15e-307	3.19e-01	0.519	0.323	1.28e-302

TUB	3.85e-307	2.62e-01	0.707	0.5	1.57e-302
CCDC112	6.15e-307	2.72e-01	0.598	0.407	2.51e-302
KCNC3	6.18e-307	2.96e-01	0.401	0.235	2.52e-302
ACVR2B	6.52e-307	2.76e-01	0.457	0.28	2.66e-302
PLD5	6.59e-307	3.57e-01	0.299	0.151	2.69e-302
IGFL4	7.15e-307	3.30e-01	0.579	0.389	2.91e-302
FAM182B	7.27e-307	4.09e-01	0.554	0.384	2.96e-302
FBXO36	8.77e-307	2.97e-01	0.533	0.346	3.57e-302
CTSS	9.36e-307	2.91e-01	0.376	0.209	3.81e-302
ACO2	1.10e-306	3.11e-01	0.649	0.458	4.48e-302
TTYH3	1.53e-306	3.08e-01	0.572	0.387	6.22e-302
SYNGAP1	2.23e-306	2.52e-01	0.725	0.493	9.10e-302
ANKRD23	2.82e-306	3.14e-01	0.537	0.349	1.15e-301
FBLN5	4.21e-306	2.68e-01	0.227	0.095	1.72e-301
SPC25	5.03e-306	3.18e-01	0.234	0.1	2.05e-301
WBP1L	5.64e-306	2.93e-01	0.565	0.378	2.30e-301
TAF3	6.09e-306	2.67e-01	0.598	0.407	2.48e-301
RBM45	6.82e-306	2.54e-01	0.508	0.32	2.78e-301
PFKP	6.93e-306	3.32e-01	0.596	0.42	2.82e-301
RAB40C	7.39e-306	3.26e-01	0.715	0.533	3.01e-301
PITPNC1	8.07e-306	4.13e-01	0.535	0.377	3.29e-301
SYNPR	1.38e-305	5.30e-01	0.616	0.447	5.61e-301
IRF2	1.51e-305	2.70e-01	0.403	0.231	6.14e-301
ANGEL1	1.66e-305	2.77e-01	0.527	0.339	6.78e-301
RSPH3	2.27e-305	2.68e-01	0.655	0.451	9.25e-301
LINC00621	2.32e-305	2.69e-01	0.315	0.158	9.47e-301

ZNF793	2.63e-305	2.89e-01	0.543	0.36	1.07e-300
UBE2O	5.06e-305	2.80e-01	0.761	0.565	2.06e-300
LNC-LBCS	1.27e-304	3.77e-01	0.273	0.126	5.16e-300
GLRA2	1.48e-304	5.32e-01	0.514	0.358	6.03e-300
EPHA10	2.31e-304	2.53e-01	0.62	0.416	9.40e-300
LAMC1	2.58e-304	2.56e-01	0.665	0.462	1.05e-299
DENND2B	2.86e-304	3.24e-01	0.506	0.314	1.16e-299
PBX4	5.55e-304	3.16e-01	0.445	0.271	2.26e-299
PACSIN1	6.82e-304	2.71e-01	0.757	0.563	2.78e-299
EIF1B-AS1	7.39e-304	2.81e-01	0.526	0.326	3.01e-299
FBXO17	7.66e-304	3.06e-01	0.426	0.251	3.12e-299
THRA	9.92e-304	2.63e-01	0.591	0.406	4.04e-299
HEXB	1.29e-303	2.52e-01	0.532	0.347	5.28e-299
USP22	1.70e-303	2.76e-01	0.772	0.572	6.94e-299
CEMIP	2.28e-303	2.98e-01	0.413	0.249	9.31e-299
USP3-AS1	2.41e-303	2.99e-01	0.501	0.311	9.81e-299
NRXN2	2.49e-303	3.78e-01	0.835	0.697	1.01e-298
PCED1B	3.14e-303	4.45e-01	0.577	0.389	1.28e-298
FADS3	5.03e-303	2.89e-01	0.663	0.463	2.05e-298
KRTAP5-AS1	5.12e-303	3.03e-01	0.48	0.298	2.08e-298
GABPB2	5.16e-303	3.03e-01	0.48	0.304	2.10e-298
CHST8	9.90e-303	3.70e-01	0.294	0.147	4.04e-298
NCS1	1.05e-302	3.04e-01	0.719	0.529	4.26e-298
B4GALNT4	1.18e-302	2.65e-01	0.638	0.431	4.80e-298
GCLM	1.23e-302	2.54e-01	0.54	0.352	5.01e-298
PRKCG	1.70e-302	2.78e-01	0.759	0.556	6.91e-298

RPN2	6.71e-302	2.59e-01	0.505	0.328	2.73e-297
GSDMB	9.24e-302	2.65e-01	0.401	0.234	3.77e-297
LINC00158	1.10e-301	2.83e-01	0.417	0.244	4.49e-297
NDUFB6	2.09e-301	2.61e-01	0.52	0.336	8.52e-297
ARHGAP6	2.53e-301	6.63e-01	0.662	0.516	1.03e-296
AATF	2.66e-301	2.72e-01	0.482	0.293	1.08e-296
SOD2	3.85e-301	2.70e-01	0.613	0.413	1.57e-296
LIMA1	6.54e-301	2.82e-01	0.373	0.211	2.67e-296
TMEM87A	8.96e-301	2.62e-01	0.621	0.43	3.65e-296
PTDSS2	1.02e-300	2.68e-01	0.532	0.344	4.15e-296
CNR1	1.20e-300	3.59e-01	0.623	0.433	4.88e-296
POLR2F	2.71e-300	3.05e-01	0.517	0.341	1.10e-295
CCDC125	3.00e-300	2.60e-01	0.467	0.285	1.22e-295
INPP5A	3.34e-300	3.66e-01	0.617	0.443	1.36e-295
PTPRO	4.04e-300	4.17e-01	0.882	0.763	1.65e-295
DCAF1	4.54e-300	2.65e-01	0.454	0.27	1.85e-295
ZNF197	4.99e-300	2.74e-01	0.528	0.337	2.03e-295
BRSK2	5.49e-300	2.66e-01	0.706	0.499	2.24e-295
PRMT7	1.13e-299	2.77e-01	0.58	0.396	4.62e-295
ANXA11	1.70e-299	3.39e-01	0.604	0.418	6.94e-295
OBI1	1.83e-299	2.69e-01	0.376	0.209	7.45e-295
WASHC3	2.57e-299	2.81e-01	0.441	0.265	1.05e-294
FBXL13	4.39e-299	2.54e-01	0.631	0.44	1.79e-294
SLC30A6	2.43e-298	2.70e-01	0.57	0.375	9.89e-294
ALMS1P1	2.44e-298	2.83e-01	0.388	0.217	9.94e-294
THOC7	2.84e-298	2.53e-01	0.539	0.352	1.16e-293

RBBP4	6.31e-298	2.51e-01	0.654	0.46	2.57e-293
PRKAR1B	1.07e-297	3.02e-01	0.827	0.646	4.36e-293
SMIM12	2.12e-297	2.92e-01	0.593	0.404	8.62e-293
KPNA6	2.63e-297	2.96e-01	0.628	0.451	1.07e-292
CARS2	2.89e-297	2.51e-01	0.622	0.426	1.18e-292
TRIM69	3.91e-297	3.32e-01	0.5	0.321	1.59e-292
CRHR2	4.16e-297	-4.06e-01	0.035	0.144	1.69e-292
ZC3H3	5.47e-297	2.64e-01	0.428	0.254	2.23e-292
NDUFA6-DT	6.97e-297	2.62e-01	0.403	0.228	2.84e-292
VPS26C	7.01e-297	2.79e-01	0.538	0.341	2.85e-292
MPP2	8.24e-297	2.78e-01	0.584	0.398	3.36e-292
PTDSS1	1.11e-296	2.71e-01	0.597	0.409	4.54e-292
CROCC	1.48e-296	2.75e-01	0.561	0.379	6.05e-292
PLEKHA2	1.71e-296	3.24e-01	0.541	0.358	6.97e-292
ADD3-AS1	2.87e-296	2.94e-01	0.305	0.153	1.17e-291
LINC02774	1.20e-295	2.92e-01	0.496	0.303	4.88e-291
NBDY	1.57e-295	2.96e-01	0.61	0.416	6.39e-291
GOLPH3L	7.60e-295	2.72e-01	0.427	0.255	3.10e-290
POLH	1.38e-294	2.51e-01	0.461	0.285	5.63e-290
SUMF2	4.13e-294	2.59e-01	0.559	0.369	1.68e-289
MAU2	4.83e-294	2.64e-01	0.592	0.401	1.97e-289
SLC25A42	5.43e-294	3.06e-01	0.547	0.368	2.21e-289
SLC1A1	8.43e-294	2.82e-01	0.671	0.484	3.43e-289
FDPS	9.23e-294	2.99e-01	0.577	0.389	3.76e-289
AARSD1	9.97e-294	2.58e-01	0.453	0.271	4.06e-289
ATF1	1.46e-293	2.73e-01	0.551	0.366	5.96e-289

PSME3IP1	1.83e-293	2.53e-01	0.421	0.244	7.47e-289
GALNT14	2.12e-293	4.03e-01	0.518	0.347	8.62e-289
IST1	2.29e-293	2.58e-01	0.625	0.428	9.34e-289
EML2	2.81e-293	2.98e-01	0.556	0.381	1.14e-288
INKA2	5.16e-293	3.26e-01	0.554	0.359	2.10e-288
C8orf34-AS1	1.26e-292	2.50e-01	0.211	0.085	5.12e-288
INTS1	1.39e-292	2.61e-01	0.617	0.425	5.65e-288
CCDC62	1.40e-292	3.08e-01	0.453	0.282	5.71e-288
LINC00174	1.56e-292	2.54e-01	0.488	0.298	6.37e-288
HSPBAP1	2.58e-292	2.70e-01	0.412	0.244	1.05e-287
BDNF-AS	2.76e-292	2.76e-01	0.499	0.312	1.13e-287
FBXO15	3.25e-292	2.62e-01	0.349	0.19	1.32e-287
ZNF331	3.90e-292	2.55e-01	0.592	0.406	1.59e-287
CREM	4.94e-292	2.55e-01	0.648	0.444	2.01e-287
SMARCD3	6.57e-292	3.61e-01	0.548	0.373	2.68e-287
IL34	7.26e-292	2.93e-01	0.563	0.375	2.96e-287
TAF4	1.58e-291	2.82e-01	0.47	0.291	6.43e-287
LY6E-DT	1.79e-291	3.10e-01	0.447	0.27	7.30e-287
KLF7	2.07e-291	3.11e-01	0.649	0.463	8.42e-287
BHLHB9	3.84e-291	2.83e-01	0.471	0.295	1.56e-286
SYN1	4.56e-291	2.99e-01	0.664	0.481	1.86e-286
SLC12A6	6.01e-291	2.58e-01	0.655	0.457	2.45e-286
CEP250	1.94e-290	2.78e-01	0.459	0.29	7.89e-286
ARRB1	2.11e-290	3.16e-01	0.56	0.388	8.61e-286
CLIP3	2.32e-290	2.83e-01	0.612	0.438	9.47e-286
CFLAR	4.58e-290	3.84e-01	0.528	0.361	1.86e-285

LINC01252	4.87e-290	2.70e-01	0.638	0.424	1.99e-285
ELP3	9.78e-290	2.50e-01	0.574	0.384	3.99e-285
TTC27	2.04e-289	2.80e-01	0.533	0.352	8.29e-285
NUMA1	5.08e-289	2.55e-01	0.555	0.377	2.07e-284
SILC1	7.93e-289	2.60e-01	0.459	0.265	3.23e-284
SNCG	9.28e-289	2.80e-01	0.48	0.3	3.78e-284
PLBD2	1.25e-288	3.03e-01	0.494	0.321	5.10e-284
ANKRD6	1.52e-288	3.12e-01	0.743	0.555	6.20e-284
BPNT2	3.30e-288	2.59e-01	0.447	0.268	1.34e-283
HSD11B1-AS1	3.60e-288	3.03e-01	0.342	0.185	1.46e-283
RBM12B	1.21e-287	2.56e-01	0.537	0.349	4.91e-283
SH3D19	1.25e-287	3.23e-01	0.73	0.547	5.11e-283
ACER3	1.48e-287	2.70e-01	0.68	0.491	6.02e-283
SLC6A6	1.75e-287	2.97e-01	0.506	0.328	7.13e-283
LINC02427	3.21e-287	2.65e-01	0.321	0.167	1.31e-282
CSNK1E	6.35e-287	2.97e-01	0.632	0.444	2.59e-282
GAK	6.98e-287	3.20e-01	0.615	0.441	2.84e-282
HEATR3	7.47e-287	2.63e-01	0.574	0.387	3.04e-282
FAM234A	9.01e-287	2.71e-01	0.496	0.314	3.67e-282
LHFPL5	1.04e-286	2.94e-01	0.55	0.358	4.25e-282
BAZ1B	2.00e-286	2.75e-01	0.605	0.43	8.15e-282
UBTD2	2.79e-286	2.56e-01	0.426	0.259	1.14e-281
FERMT2	3.29e-286	2.65e-01	0.362	0.202	1.34e-281
COL28A1	5.01e-286	3.68e-01	0.336	0.183	2.04e-281
DRD2	9.70e-286	2.60e-01	0.183	0.068	3.95e-281
GTF2H3	1.33e-285	2.67e-01	0.563	0.375	5.40e-281

NOVA2	1.78e-285	2.65e-01	0.674	0.486	7.24e-281
STON2	3.37e-285	3.36e-01	0.261	0.124	1.37e-280
PTMS	5.60e-285	2.60e-01	0.622	0.431	2.28e-280
KCNIP3	6.17e-285	3.50e-01	0.599	0.429	2.51e-280
NUMBL	6.72e-285	2.94e-01	0.561	0.38	2.74e-280
EXTL1	9.25e-285	3.22e-01	0.451	0.283	3.77e-280
NPC1	1.10e-284	2.87e-01	0.53	0.351	4.48e-280
CLMN	1.46e-284	3.25e-01	0.467	0.297	5.97e-280
NPHP4	1.99e-284	2.50e-01	0.71	0.504	8.11e-280
ERGIC1	2.95e-284	3.09e-01	0.639	0.46	1.20e-279
C6orf89	4.41e-284	2.57e-01	0.652	0.467	1.79e-279
UBE2G1	6.15e-284	2.54e-01	0.695	0.497	2.51e-279
FBXO31	7.94e-284	2.73e-01	0.536	0.359	3.23e-279
TMEM64	1.18e-283	3.19e-01	0.592	0.403	4.82e-279
NRXN3	1.76e-283	3.91e-01	0.976	0.933	7.17e-279
RILPL1	2.50e-283	2.74e-01	0.658	0.471	1.02e-278
FAM3C	2.60e-283	2.52e-01	0.621	0.436	1.06e-278
DPP10-AS3	3.39e-283	3.83e-01	0.167	0.058	1.38e-278
MAD1L1	3.60e-283	3.05e-01	0.511	0.344	1.47e-278
RNF168	4.62e-283	2.70e-01	0.541	0.363	1.88e-278
CACNG2	1.10e-282	2.98e-01	0.662	0.492	4.47e-278
MTHFR	2.03e-282	2.72e-01	0.439	0.271	8.29e-278
STK32C	2.77e-282	2.83e-01	0.6	0.419	1.13e-277
MET	8.24e-282	-4.05e-01	0.021	0.119	3.36e-277
BACH2	1.15e-281	3.77e-01	0.684	0.53	4.69e-277
LINC01902	2.45e-281	2.80e-01	0.392	0.221	9.98e-277

POLR1D	2.99e-281	2.54e-01	0.538	0.357	1.22e-276
SAMD4B	3.78e-281	2.84e-01	0.601	0.418	1.54e-276
NRP2	4.00e-281	2.62e-01	0.603	0.402	1.63e-276
HS6ST2	9.32e-281	5.33e-01	0.556	0.392	3.80e-276
CAAP1	4.64e-280	2.70e-01	0.509	0.328	1.89e-275
KLF3-AS1	4.87e-280	2.73e-01	0.492	0.303	1.98e-275
METTTL2B	5.41e-280	2.72e-01	0.468	0.295	2.20e-275
RETREG3	5.68e-280	2.61e-01	0.5	0.314	2.31e-275
CDH10	6.82e-280	3.30e-01	0.894	0.762	2.78e-275
MT-ND4L	1.10e-279	2.73e-01	0.418	0.248	4.47e-275
PELI2	1.66e-279	2.57e-01	0.25	0.116	6.75e-275
PPP2R2D	1.71e-279	2.80e-01	0.633	0.451	6.95e-275
EIF4A1	2.05e-279	2.74e-01	0.512	0.332	8.35e-275
GAS1RR	2.45e-279	2.89e-01	0.252	0.117	1.00e-274
UMAD1	1.38e-278	-3.61e-01	0.025	0.127	5.64e-274
POLR1A	1.53e-278	2.87e-01	0.547	0.372	6.25e-274
CYTH3	1.72e-278	3.01e-01	0.696	0.523	7.01e-274
AHSA2P	1.91e-278	2.56e-01	0.448	0.273	7.77e-274
TMEM163	4.73e-278	3.17e-01	0.684	0.485	1.93e-273
PPIL2	5.98e-278	2.67e-01	0.597	0.412	2.44e-273
ASB7	6.98e-278	2.75e-01	0.496	0.322	2.84e-273
ACOT7	1.03e-277	3.08e-01	0.676	0.497	4.20e-273
HLA-L	1.18e-277	2.55e-01	0.454	0.274	4.81e-273
SYTL5	1.19e-277	3.96e-01	0.182	0.068	4.86e-273
HRH1	1.35e-277	4.66e-01	0.487	0.321	5.50e-273
RNF175	1.42e-277	2.55e-01	0.753	0.548	5.77e-273

MSH4	2.74e-277	2.51e-01	0.368	0.211	1.12e-272
ZNF141	5.37e-277	2.51e-01	0.486	0.311	2.19e-272
ABCA2	5.92e-277	2.70e-01	0.599	0.418	2.41e-272
WRNIP1	8.68e-277	2.69e-01	0.544	0.361	3.54e-272
TBC1D31	9.60e-277	2.62e-01	0.591	0.406	3.91e-272
GPC4	1.11e-276	3.59e-01	0.439	0.269	4.53e-272
PPCDC	1.55e-276	3.25e-01	0.413	0.253	6.30e-272
ST6GAL1	2.18e-276	3.78e-01	0.602	0.426	8.88e-272
LINC01409	2.48e-276	2.54e-01	0.334	0.18	1.01e-271
RTN4RL1	4.11e-276	4.02e-01	0.673	0.517	1.67e-271
ACTL6B	5.20e-276	2.52e-01	0.545	0.37	2.12e-271
PAK2	5.22e-276	3.00e-01	0.585	0.41	2.13e-271
PPARG	6.85e-276	3.82e-01	0.519	0.354	2.79e-271
RAB5A	6.89e-276	2.67e-01	0.597	0.41	2.81e-271
CKMT2	9.78e-276	3.65e-01	0.355	0.201	3.99e-271
GPC5	1.03e-275	7.56e-01	0.638	0.505	4.20e-271
ALG8	1.07e-275	2.54e-01	0.503	0.326	4.36e-271
AGBL1	1.08e-275	7.66e-01	0.507	0.35	4.39e-271
TRNAU1AP	2.22e-275	2.73e-01	0.567	0.387	9.03e-271
ARHGEF26-AS1	3.06e-275	2.59e-01	0.259	0.122	1.25e-270
RFTN1	5.51e-275	3.94e-01	0.612	0.44	2.25e-270
AP2A1	6.59e-275	2.80e-01	0.538	0.365	2.69e-270
AIFM2	1.80e-274	2.55e-01	0.411	0.245	7.34e-270
ADCY5	4.76e-274	2.81e-01	0.684	0.493	1.94e-269
STS	4.95e-274	2.57e-01	0.585	0.388	2.02e-269
MAOB	7.08e-274	2.97e-01	0.612	0.43	2.88e-269

ZNF433-AS1	1.24e-273	2.90e-01	0.383	0.219	5.07e-269
RHBDD3	1.43e-273	2.51e-01	0.443	0.276	5.84e-269
UBE2L3	1.63e-273	2.75e-01	0.552	0.38	6.65e-269
ZNF678	1.98e-273	2.70e-01	0.409	0.245	8.05e-269
HOMER2	2.76e-273	2.73e-01	0.611	0.428	1.13e-268
PEX14	5.91e-273	2.54e-01	0.652	0.46	2.41e-268
BICD2	9.21e-273	2.60e-01	0.46	0.294	3.75e-268
LZTS1	1.61e-272	3.88e-01	0.604	0.434	6.57e-268
AGAP2	2.35e-272	2.84e-01	0.609	0.44	9.58e-268
BCAT1	2.50e-272	2.96e-01	0.578	0.399	1.02e-267
FAM185A	3.48e-272	2.91e-01	0.65	0.465	1.42e-267
C16orf95	3.65e-272	3.34e-01	0.462	0.296	1.49e-267
MICALL2	3.70e-272	2.61e-01	0.437	0.271	1.51e-267
SPOCK2	1.14e-271	2.91e-01	0.637	0.467	4.63e-267
SLC44A2	1.76e-271	2.53e-01	0.454	0.289	7.17e-267
TBC1D4	2.01e-271	2.73e-01	0.686	0.516	8.19e-267
PRELID3A	3.58e-271	2.64e-01	0.484	0.309	1.46e-266
PEPD	3.61e-271	3.17e-01	0.475	0.311	1.47e-266
DGCR8	5.38e-271	2.79e-01	0.429	0.269	2.19e-266
LRRIQ1	5.72e-271	2.57e-01	0.654	0.474	2.33e-266
PSMG4	1.32e-270	2.53e-01	0.455	0.287	5.38e-266
BAZ2A	1.48e-270	2.59e-01	0.597	0.42	6.04e-266
DMGDH	2.96e-270	2.97e-01	0.581	0.397	1.21e-265
TECPR2	3.59e-270	2.50e-01	0.753	0.559	1.46e-265
PRMT2	4.09e-270	2.54e-01	0.662	0.486	1.67e-265
LINC01301	5.17e-270	2.88e-01	0.514	0.33	2.11e-265

TEKT4P2	8.77e-270	2.72e-01	0.334	0.181	3.57e-265
PRH1	8.85e-270	2.72e-01	0.44	0.269	3.61e-265
TMBIM6	9.24e-270	2.54e-01	0.714	0.527	3.76e-265
PACSIN2	1.08e-269	2.86e-01	0.617	0.435	4.41e-265
TUT7	2.09e-269	2.56e-01	0.522	0.332	8.51e-265
RIPK1	2.24e-269	2.53e-01	0.545	0.366	9.13e-265
GLIS1	4.47e-269	3.17e-01	0.6	0.415	1.82e-264
SEPTIN8	6.73e-269	2.63e-01	0.449	0.276	2.74e-264
SDK2	6.89e-269	5.64e-01	0.334	0.198	2.81e-264
CYP26B1	1.11e-268	2.56e-01	0.211	0.091	4.54e-264
CUX2	1.64e-268	-1.06e+00	0.389	0.542	6.68e-264
GSR	4.66e-268	2.64e-01	0.546	0.369	1.90e-263
TMEM63B	6.00e-268	2.67e-01	0.611	0.434	2.44e-263
FKBP5	8.08e-268	3.71e-01	0.437	0.271	3.29e-263
CCDC162P	2.45e-267	2.87e-01	0.494	0.313	9.97e-263
BBOX1-AS1	3.31e-267	3.29e-01	0.306	0.163	1.35e-262
TXNRD1	3.45e-267	2.56e-01	0.587	0.409	1.41e-262
ESR1	3.58e-267	1.13e+00	0.307	0.174	1.46e-262
SPESP1	4.49e-267	2.87e-01	0.439	0.274	1.83e-262
KANSL1L-AS1	4.70e-267	2.63e-01	0.448	0.274	1.92e-262
LINC-PINT	5.36e-267	-1.18e+00	0.026	0.122	2.19e-262
COG1	1.04e-266	2.55e-01	0.633	0.445	4.22e-262
MSI2	1.23e-266	3.07e-01	0.622	0.446	5.00e-262
LINC02763	2.50e-266	2.74e-01	0.219	0.096	1.02e-261
FANCM	2.54e-266	2.99e-01	0.457	0.291	1.03e-261
CCND2-AS1	7.72e-266	2.58e-01	0.366	0.209	3.15e-261

LRRN3	1.18e-265	3.23e-01	0.615	0.438	4.81e-261
BDNF	1.29e-265	4.06e-01	0.415	0.254	5.26e-261
TGFBR3	4.45e-265	3.44e-01	0.288	0.152	1.81e-260
PLB1	9.66e-265	2.77e-01	0.362	0.21	3.93e-260
DPH6	2.51e-264	3.29e-01	0.629	0.455	1.02e-259
GFOD2	5.69e-264	2.72e-01	0.476	0.311	2.32e-259
MED21	6.75e-264	2.60e-01	0.534	0.352	2.75e-259
KYAT3	7.07e-264	2.53e-01	0.496	0.314	2.88e-259
KCNAB2	9.57e-264	2.56e-01	0.725	0.542	3.90e-259
MT-ND5	1.25e-263	3.70e-01	0.597	0.438	5.08e-259
CDKL5	1.44e-263	2.58e-01	0.859	0.694	5.88e-259
ZFY	2.26e-263	2.62e-01	0.458	0.288	9.20e-259
LINC02196	2.71e-263	8.87e-01	0.195	0.082	1.10e-258
EPB41	5.02e-263	3.22e-01	0.429	0.276	2.04e-258
COL23A1	5.35e-262	3.02e-01	0.382	0.232	2.18e-257
TBC1D8	9.03e-262	2.78e-01	0.673	0.49	3.68e-257
LINC00877	9.34e-262	2.73e-01	0.283	0.144	3.81e-257
TRPM2	2.04e-261	2.52e-01	0.62	0.443	8.31e-257
SH3GL1	2.70e-261	2.89e-01	0.499	0.332	1.10e-256
MIR325HG	6.87e-261	5.08e-01	0.474	0.32	2.80e-256
RAB27A	1.10e-260	2.84e-01	0.425	0.266	4.47e-256
ADGRB2	2.67e-260	2.57e-01	0.657	0.471	1.09e-255
LINC01606	3.95e-260	3.38e-01	0.139	0.044	1.61e-255
MALT1	7.13e-260	2.53e-01	0.644	0.448	2.90e-255
SFXN5	7.74e-260	2.95e-01	0.713	0.539	3.15e-255
DNAJC11	1.14e-259	2.72e-01	0.583	0.406	4.64e-255

CHST15	1.25e-259	3.71e-01	0.539	0.382	5.11e-255
COL6A1	1.25e-259	4.21e-01	0.41	0.255	5.11e-255
LINC01357	1.37e-259	2.60e-01	0.389	0.229	5.56e-255
TMEM179	1.04e-258	2.54e-01	0.447	0.281	4.22e-254
SPEG	1.30e-258	2.58e-01	0.593	0.419	5.30e-254
BRI3	2.33e-258	2.61e-01	0.554	0.375	9.51e-254
NSUN2	2.49e-258	2.60e-01	0.511	0.341	1.02e-253
POLR2A	3.20e-258	2.60e-01	0.457	0.291	1.30e-253
DHX32	1.22e-257	2.65e-01	0.57	0.392	4.99e-253
SCN1A	4.05e-257	2.81e-01	0.766	0.641	1.65e-252
MIR9-3HG	8.39e-257	2.78e-01	0.535	0.349	3.42e-252
CPB2-AS1	1.03e-256	2.81e-01	0.447	0.279	4.22e-252
DISP2	1.18e-256	2.73e-01	0.469	0.306	4.80e-252
DYSF	2.59e-256	3.47e-01	0.477	0.317	1.06e-251
DIO2	2.75e-256	3.59e-01	0.328	0.183	1.12e-251
MGAT3	6.04e-256	2.72e-01	0.586	0.414	2.46e-251
BBOF1	7.17e-256	2.62e-01	0.484	0.313	2.92e-251
SLC25A23	7.58e-256	2.52e-01	0.521	0.352	3.09e-251
GPR137B	3.93e-255	2.59e-01	0.56	0.379	1.60e-250
LINC00407	5.90e-255	2.96e-01	0.448	0.28	2.40e-250
UNC13A	8.48e-255	2.93e-01	0.81	0.663	3.45e-250
SMAD9	1.25e-254	3.09e-01	0.395	0.248	5.10e-250
LINC01277	1.42e-254	2.85e-01	0.473	0.3	5.79e-250
NADSYN1	1.57e-254	2.59e-01	0.389	0.234	6.38e-250
MINK1	1.98e-254	2.80e-01	0.683	0.516	8.06e-250
KIAA0513	2.86e-254	2.85e-01	0.682	0.51	1.16e-249

SLA	6.71e-254	2.55e-01	0.346	0.195	2.73e-249
PRLR	1.42e-253	6.86e-01	0.248	0.123	5.79e-249
CFAP92	4.18e-253	2.51e-01	0.465	0.288	1.70e-248
SGK3	1.24e-252	2.60e-01	0.707	0.509	5.03e-248
ABL1	1.42e-252	2.53e-01	0.733	0.543	5.80e-248
CCM2	9.16e-252	2.64e-01	0.528	0.359	3.73e-247
ACAD9	1.10e-251	2.65e-01	0.492	0.327	4.48e-247
ICAM5	4.99e-251	2.77e-01	0.607	0.427	2.03e-246
LINC00457	1.05e-250	2.57e-01	0.189	0.078	4.27e-246
SLC16A2	3.12e-250	3.08e-01	0.568	0.396	1.27e-245
GTF2IRD1	7.36e-250	3.04e-01	0.617	0.452	3.00e-245
PROS1	8.63e-250	2.92e-01	0.371	0.221	3.52e-245
EFCAB5	8.64e-250	3.06e-01	0.462	0.303	3.52e-245
STK40	1.11e-249	2.85e-01	0.515	0.35	4.53e-245
ATP6V0E1	1.47e-249	2.60e-01	0.519	0.349	6.00e-245
FOXK1	2.07e-249	2.54e-01	0.639	0.463	8.42e-245
LINC01234	2.24e-249	2.50e-01	0.18	0.071	9.14e-245
NKAPP1	3.67e-249	2.75e-01	0.407	0.245	1.50e-244
PCCB	1.03e-248	2.80e-01	0.518	0.352	4.21e-244
DNAJC3	1.24e-248	2.50e-01	0.539	0.368	5.04e-244
UBE2Z	1.36e-248	2.58e-01	0.561	0.391	5.55e-244
ATP8B4	3.99e-248	2.94e-01	0.536	0.372	1.62e-243
ZNF721	5.66e-248	2.61e-01	0.703	0.525	2.31e-243
NEK7	7.23e-248	2.65e-01	0.364	0.214	2.94e-243
FBXO32	1.15e-246	3.72e-01	0.449	0.3	4.69e-242
NFATC3	1.45e-246	2.66e-01	0.509	0.345	5.91e-242

MID1	1.72e-246	3.07e-01	0.32	0.183	7.02e-242
AGPAT3	2.03e-246	2.74e-01	0.642	0.473	8.26e-242
NIFK-AS1	1.13e-244	2.60e-01	0.512	0.348	4.62e-240
XACT	3.81e-244	5.70e-01	0.388	0.237	1.55e-239
LINC01811	4.32e-243	2.79e-01	0.557	0.364	1.76e-238
SHISAL1	4.58e-243	2.50e-01	0.366	0.213	1.87e-238
LHPP	1.79e-242	2.51e-01	0.605	0.427	7.29e-238
PPP1R26-AS1	4.11e-242	2.87e-01	0.362	0.216	1.67e-237
PLPPR2	5.22e-242	2.53e-01	0.549	0.378	2.13e-237
ZFYVE26	2.40e-241	2.54e-01	0.464	0.305	9.79e-237
PREX2	4.27e-241	4.10e-01	0.245	0.121	1.74e-236
PPFIA3	3.97e-240	2.61e-01	0.581	0.414	1.62e-235
XRCC4	4.06e-240	2.89e-01	0.434	0.279	1.65e-235
ERBB4	4.52e-240	6.11e-01	0.49	0.337	1.84e-235
IGSF9B	2.24e-239	3.48e-01	0.604	0.423	9.13e-235
ACOT11	1.34e-238	3.84e-01	0.413	0.266	5.44e-234
PRSS3	3.19e-238	3.12e-01	0.474	0.314	1.30e-233
EPS8	4.67e-238	3.81e-01	0.259	0.135	1.90e-233
LIMK1	2.04e-237	2.85e-01	0.404	0.257	8.31e-233
LINC02254	2.76e-237	3.23e-01	0.419	0.256	1.12e-232
LGR4	4.75e-237	2.68e-01	0.554	0.389	1.93e-232
PPM1F	7.05e-237	2.51e-01	0.418	0.267	2.87e-232
EGFEM1P	1.50e-236	7.68e-01	0.278	0.153	6.12e-232
SHANK1	1.54e-236	2.93e-01	0.647	0.49	6.26e-232
DHRS7B	4.01e-236	2.83e-01	0.518	0.355	1.63e-231
LINC00504	1.05e-235	3.21e-01	0.375	0.226	4.27e-231

GNG4	1.37e-235	4.74e-01	0.356	0.22	5.59e-231
KATNAL2	2.00e-235	2.82e-01	0.483	0.322	8.13e-231
GFPT2	3.99e-235	2.63e-01	0.338	0.198	1.63e-230
ZNF81	6.49e-235	2.59e-01	0.491	0.329	2.64e-230
DENND2A	1.41e-233	3.67e-01	0.568	0.414	5.75e-229
LINC01933	3.06e-233	3.19e-01	0.204	0.093	1.25e-228
RFX2	3.45e-233	2.88e-01	0.468	0.315	1.41e-228
AVIL	6.08e-233	3.08e-01	0.332	0.196	2.48e-228
BANP	7.69e-233	2.96e-01	0.555	0.395	3.13e-228
ACER2	8.88e-233	3.04e-01	0.367	0.224	3.62e-228
PDE6D	9.89e-233	2.53e-01	0.418	0.267	4.03e-228
FAM106A	2.41e-231	2.97e-01	0.433	0.272	9.82e-227
SPANXA2-OT1	3.76e-231	3.19e-01	0.511	0.337	1.53e-226
GRIK4	8.64e-231	4.88e-01	0.628	0.5	3.52e-226
SNX31	1.01e-230	2.92e-01	0.362	0.218	4.10e-226
SNX8	1.02e-230	2.91e-01	0.519	0.363	4.18e-226
BACH1	1.43e-230	2.89e-01	0.358	0.217	5.82e-226
QKI	2.20e-230	4.73e-01	0.699	0.55	8.94e-226
PIP5K1C	3.87e-230	2.80e-01	0.577	0.418	1.58e-225
ALG1	3.97e-230	2.68e-01	0.297	0.165	1.62e-225
GEMIN7-AS1	5.86e-230	2.57e-01	0.399	0.247	2.39e-225
KCNG1	6.41e-230	3.59e-01	0.473	0.322	2.61e-225
ENOX2	9.78e-230	2.64e-01	0.47	0.31	3.99e-225
GALNT10	1.03e-229	2.93e-01	0.385	0.238	4.20e-225
FILIP1	5.89e-229	2.92e-01	0.428	0.28	2.40e-224
PCDH19	1.11e-228	4.17e-01	0.582	0.442	4.54e-224

BCL11A	2.41e-228	-5.89e-01	0.402	0.538	9.81e-224
OPRD1	5.73e-228	3.67e-01	0.445	0.301	2.33e-223
C5orf17	3.34e-227	6.33e-01	0.332	0.193	1.36e-222
KCNN1	9.24e-227	2.65e-01	0.357	0.217	3.76e-222
MYH9	6.57e-226	3.06e-01	0.647	0.49	2.68e-221
ITFG2	1.67e-225	2.65e-01	0.477	0.322	6.79e-221
APLF	1.54e-223	3.21e-01	0.429	0.282	6.28e-219
IQCH	2.71e-223	2.65e-01	0.504	0.343	1.10e-218
ITGA8	3.16e-222	4.11e-01	0.185	0.083	1.29e-217
GAS8	1.01e-221	2.65e-01	0.537	0.378	4.11e-217
MYO9B	1.64e-221	2.66e-01	0.556	0.405	6.69e-217
ZBTB46	3.02e-221	2.92e-01	0.585	0.429	1.23e-216
CALCRL	5.50e-221	6.52e-01	0.231	0.118	2.24e-216
LINC02698	5.88e-221	4.13e-01	0.35	0.209	2.40e-216
PANTR1	8.90e-221	-3.42e-01	0.134	0.264	3.63e-216
ZC3H7B	3.45e-217	2.67e-01	0.525	0.374	1.41e-212
LINC01135	3.89e-215	2.52e-01	0.461	0.3	1.59e-210
LRP4	6.06e-215	-3.85e-01	0.032	0.118	2.47e-210
KLHL1	6.26e-215	7.65e-01	0.332	0.21	2.55e-210
LINC01807	1.33e-213	3.08e-01	0.333	0.195	5.44e-209
P3H2	2.67e-212	2.61e-01	0.565	0.399	1.09e-207
PRKD1	2.14e-211	3.74e-01	0.498	0.351	8.72e-207
LINC01476	2.00e-208	2.62e-01	0.41	0.258	8.16e-204
DGKD	5.77e-208	2.82e-01	0.583	0.427	2.35e-203
LINC02822	6.71e-208	-6.50e-01	0.037	0.123	2.73e-203
SLC26A3	1.72e-207	-9.77e-01	0.059	0.153	7.03e-203

SYCP2L	9.75e-207	2.53e-01	0.442	0.295	3.97e-202
CAV2	2.28e-206	-2.62e-01	0.062	0.161	9.29e-202
SHISA6	8.93e-206	4.89e-01	0.469	0.331	3.64e-201
NXN	2.16e-205	3.79e-01	0.344	0.214	8.81e-201
KDM7A	5.94e-205	2.59e-01	0.527	0.378	2.42e-200
SKI	1.98e-204	2.72e-01	0.606	0.453	8.08e-200
ACSS3	3.03e-204	3.34e-01	0.285	0.164	1.23e-199
P2RX7	4.11e-203	3.07e-01	0.55	0.405	1.67e-198
CYP1B1-AS1	1.51e-201	2.99e-01	0.331	0.194	6.16e-197
PDE1C	1.53e-201	3.86e-01	0.627	0.488	6.24e-197
LRRC37A2	4.00e-201	2.72e-01	0.407	0.272	1.63e-196
CCDC144NL-AS1	5.17e-201	2.54e-01	0.584	0.411	2.35e-196
IL12RB2	5.36e-200	-4.16e-01	0.155	0.278	2.18e-195
PLCH2	4.39e-198	2.74e-01	0.379	0.239	1.79e-193
PIP5K1B	2.34e-197	4.04e-01	0.481	0.349	9.54e-193
RELN	6.51e-197	-9.79e-01	0.162	0.285	2.65e-192
SRGAP1	1.62e-196	3.43e-01	0.555	0.421	6.59e-192
BEGAIN	1.65e-196	2.80e-01	0.507	0.37	6.72e-192
IL1RAP	5.19e-194	3.76e-01	0.49	0.348	2.12e-189
PRSS12	8.94e-193	4.26e-01	0.244	0.136	3.64e-188
SLC8B1	2.02e-192	2.86e-01	0.37	0.24	8.25e-188
GLYATL2	2.61e-192	2.90e-01	0.304	0.179	1.06e-187
KIF6	2.29e-190	2.53e-01	0.368	0.236	9.35e-186
SLC35F4	9.05e-190	5.93e-01	0.372	0.256	3.69e-185
SULF2	8.34e-189	2.77e-01	0.331	0.205	3.40e-184
ADORA1	9.85e-189	2.66e-01	0.414	0.28	4.01e-184

SLC38A11	3.90e-188	6.63e-01	0.313	0.2	1.59e-183
FRMD6-AS2	1.10e-187	-3.86e-01	0.104	0.21	4.47e-183
GRB14	6.84e-187	-6.99e-01	0.194	0.307	2.79e-182
SERTM1	2.72e-186	3.14e-01	0.407	0.277	1.11e-181
NCKAP5	3.94e-186	4.34e-01	0.45	0.323	1.61e-181
SEMA5A	6.50e-186	6.77e-01	0.621	0.502	2.65e-181
PTPRZ1	1.15e-185	2.56e-01	0.653	0.521	4.69e-181
GREM2	7.02e-185	3.71e-01	0.312	0.192	2.86e-180
COPG2	2.35e-184	-3.17e-01	0.671	0.515	9.56e-180
QTRT2	3.10e-184	2.60e-01	0.406	0.27	1.26e-179
LINC01505	4.02e-184	4.58e-01	0.408	0.267	1.64e-179
SORCS2	9.60e-184	3.16e-01	0.573	0.427	3.91e-179
PAWR	2.60e-183	-2.97e-01	0.037	0.116	1.06e-178
ANXA4	3.18e-183	3.14e-01	0.422	0.291	1.30e-178
SEZ6	1.97e-182	2.63e-01	0.588	0.441	8.02e-178
LYPD1	1.75e-181	2.87e-01	0.181	0.087	7.13e-177
LINC02853	9.98e-180	2.92e-01	0.281	0.162	4.07e-175
PALLD	7.67e-178	3.96e-01	0.515	0.375	3.13e-173
SCN7A	3.27e-177	3.17e-01	0.183	0.088	1.33e-172
DPYSL3	2.71e-175	2.84e-01	0.478	0.348	1.10e-170
MCHR2	5.17e-175	3.88e-01	0.376	0.264	2.11e-170
PNPLA7	1.34e-174	2.84e-01	0.53	0.397	5.46e-170
LINC01358	1.74e-172	3.52e-01	0.387	0.257	7.08e-168
PTPRT	3.21e-172	-1.81e+00	0.589	0.62	1.31e-167
PCSK5	2.78e-171	-4.21e-01	0.234	0.36	1.13e-166
RORB	9.24e-170	5.21e-01	0.301	0.202	3.76e-165

UST	7.64e-167	-3.67e-01	0.084	0.179	3.11e-162
GRIK3	5.82e-165	3.52e-01	0.278	0.169	2.37e-160
LINC00683	8.08e-165	3.63e-01	0.404	0.277	3.29e-160
ZHX2	1.56e-164	3.77e-01	0.5	0.379	6.37e-160
MITF	1.99e-164	3.24e-01	0.213	0.116	8.11e-160
LINC00507	1.73e-163	-3.45e-01	0.05	0.129	7.07e-159
AHRR	1.34e-162	2.52e-01	0.322	0.207	5.45e-158
CAVIN2-AS1	8.70e-161	3.15e-01	0.368	0.249	3.55e-156
KCNV1	8.90e-161	2.51e-01	0.435	0.313	3.63e-156
DPY19L1	4.43e-160	3.56e-01	0.373	0.263	1.80e-155
STARD13	2.23e-158	3.25e-01	0.362	0.245	9.08e-154
GABRG1	6.26e-157	2.86e-01	0.223	0.126	2.55e-152
HIP1	7.39e-157	2.58e-01	0.366	0.253	3.01e-152
PPP1R1C	8.00e-155	5.08e-01	0.143	0.068	3.26e-150
ARHGAP24	1.25e-152	2.82e-01	0.215	0.123	5.10e-148
GPRASP1	3.83e-152	-4.17e-01	0.031	0.101	1.56e-147
EGLN3	8.36e-150	3.15e-01	0.351	0.243	3.41e-145
CCDC178	1.07e-147	2.54e-01	0.225	0.13	4.35e-143
HTR2C	4.68e-144	8.88e-01	0.505	0.416	1.91e-139
SPHKAP	6.13e-144	3.48e-01	0.76	0.664	2.50e-139
SDK1	2.73e-143	4.74e-01	0.479	0.364	1.11e-138
CDH12	7.19e-141	-1.02e+00	0.632	0.668	2.93e-136
NRP1	1.79e-138	3.31e-01	0.465	0.349	7.29e-134
TMEM233	5.21e-138	2.57e-01	0.169	0.089	2.12e-133
F5	1.06e-137	-3.91e-01	0.097	0.18	4.30e-133
DOCK10	1.25e-137	5.92e-01	0.43	0.329	5.11e-133

HS3ST4	9.53e-137	4.16e-01	0.47	0.378	3.88e-132
B3GALT1	1.37e-136	-5.40e-01	0.169	0.087	5.56e-132
LINC01435	4.63e-134	4.64e-01	0.422	0.307	1.89e-129
PTPRQ	9.76e-132	3.35e-01	0.395	0.281	3.98e-127
OCA2	1.35e-131	2.62e-01	0.354	0.243	5.50e-127
GRM4	7.85e-131	-3.34e-01	0.104	0.188	3.20e-126
TRPC6	3.02e-130	-6.99e-01	0.247	0.338	1.23e-125
RIT2	3.03e-130	-3.39e-01	0.662	0.492	1.24e-125
TLL1	4.87e-130	5.29e-01	0.376	0.273	1.98e-125
PCA3	8.36e-130	2.52e-01	0.226	0.137	3.41e-125
LINC01378	4.42e-129	3.97e-01	0.229	0.138	1.80e-124
FREM3	6.93e-129	2.54e-01	0.203	0.12	2.83e-124
ALK	1.89e-127	3.18e-01	0.369	0.261	7.70e-123
PHLDB2	2.02e-126	-4.72e-01	0.045	0.11	8.24e-122
NXPH1	6.59e-126	8.51e-01	0.234	0.151	2.69e-121
TRPC5	3.58e-125	6.36e-01	0.499	0.444	1.46e-120
CNTNAP5	1.89e-124	-4.11e-01	0.978	0.86	7.68e-120
HS3ST5	4.13e-124	4.42e-01	0.372	0.267	1.68e-119
TENM3	1.10e-122	2.80e-01	0.794	0.703	4.48e-118
PDE7B	8.31e-122	3.49e-01	0.374	0.272	3.39e-117
TMTC2	4.95e-121	2.66e-01	0.597	0.502	2.02e-116
LRMDA	1.54e-118	3.63e-01	0.216	0.132	6.29e-114
ADARB2	5.50e-118	-4.96e-01	0.351	0.448	2.24e-113
DKK2	1.94e-117	2.56e-01	0.292	0.198	7.90e-113
LINC01060	2.87e-115	3.93e-01	0.117	0.056	1.17e-110
LINC02613	9.67e-115	2.63e-01	0.286	0.192	3.94e-110

GLP2R	1.78e-113	-2.97e-01	0.051	0.115	7.23e-109
FRMD6	4.90e-112	-9.88e-01	0.394	0.444	2.00e-107
CNTNAP3P2	4.54e-111	-4.24e-01	0.085	0.154	1.85e-106
SEL1L3	4.04e-110	-2.94e-01	0.15	0.238	1.65e-105
FRMD4B	4.38e-109	2.87e-01	0.186	0.112	1.78e-104
SATB1-AS1	5.18e-109	2.51e-01	0.333	0.231	2.11e-104
MARCHF3	9.17e-107	2.62e-01	0.175	0.101	3.74e-102
GNA14	5.05e-106	5.03e-01	0.203	0.128	2.06e-101
IGFBP5	3.97e-103	3.00e-01	0.395	0.296	1.62e-98
ALCAM	2.21e-101	4.54e-01	0.688	0.638	8.99e-97
PKN2-AS1	7.05e-101	-3.39e-01	0.598	0.417	2.87e-96
THSD7B	6.45e-100	5.42e-01	0.334	0.255	2.63e-95
NTN4	7.29e-95	-2.63e-01	0.091	0.159	2.97e-90
LINC01239	5.23e-93	-3.37e-01	0.074	0.136	2.13e-88
ADRA1A	1.91e-92	4.91e-01	0.155	0.091	7.80e-88
RASGEF1B	1.19e-91	-1.18e+00	0.575	0.567	4.86e-87
NDST4	6.74e-91	4.19e-01	0.24	0.159	2.75e-86
CBLN2	1.89e-86	-9.27e-01	0.293	0.371	7.69e-82
BEND7	4.43e-86	-2.75e-01	0.18	0.257	1.80e-81
ASIC2	8.72e-86	-7.06e-01	0.647	0.705	3.55e-81
KCNH5	9.99e-86	8.19e-01	0.465	0.416	4.07e-81
ANGPT1	1.88e-84	2.68e-01	0.123	0.069	7.67e-80
C12orf42	3.89e-82	-2.61e-01	0.176	0.252	1.58e-77
PBX3	1.77e-81	2.82e-01	0.362	0.274	7.21e-77
EPB41L4A	1.96e-81	2.86e-01	0.221	0.153	7.97e-77
KIAA1217	8.46e-81	-9.05e-01	0.42	0.469	3.45e-76

FBXL21P	7.80e-80	-3.95e-01	0.182	0.25	3.18e-75
PLS3	8.47e-80	3.05e-01	0.278	0.206	3.45e-75
CHST9	7.16e-79	-7.38e-01	0.342	0.396	2.92e-74
CDH6	8.17e-77	3.70e-01	0.173	0.114	3.33e-72
PLCL1	1.06e-74	-2.55e-01	0.765	0.648	4.30e-70
HS3ST2	1.31e-73	2.72e-01	0.255	0.182	5.34e-69
GRIK1	2.48e-73	5.45e-01	0.334	0.272	1.01e-68
CACNB4	3.65e-73	-8.49e-01	0.577	0.599	1.49e-68
KIF2A	1.07e-71	-2.59e-01	0.221	0.297	4.37e-67
LAMA2	5.87e-69	-4.73e-01	0.22	0.286	2.39e-64
MAML2	6.24e-69	2.54e-01	0.277	0.207	2.54e-64
SORL1	7.51e-66	-5.89e-01	0.594	0.6	3.06e-61
OTOF	1.26e-64	6.14e-01	0.187	0.13	5.12e-60
CHRM3-AS2	1.01e-63	-4.12e-01	0.337	0.384	4.10e-59
LINC02307	2.78e-63	2.67e-01	0.106	0.061	1.13e-58
COL11A1	7.35e-63	3.42e-01	0.203	0.146	2.99e-58
S100Z	1.94e-60	-4.52e-01	0.141	0.197	7.91e-56
EPHA3	7.82e-60	-4.86e-01	0.453	0.53	3.18e-55
ALDH1A2	1.62e-59	3.11e-01	0.402	0.325	6.61e-55
UTRN	8.59e-59	-2.64e-01	0.284	0.354	3.50e-54
SLC24A2	7.33e-58	-2.53e-01	0.736	0.596	2.99e-53
CREB5	1.93e-54	-4.61e-01	0.285	0.338	7.86e-50
MYLK	5.87e-52	-3.15e-01	0.133	0.184	2.39e-47
TMPRSS9	1.83e-50	3.14e-01	0.172	0.125	7.48e-46
PCSK1	2.26e-48	-2.51e-01	0.063	0.104	9.22e-44
HAPLN2	5.80e-47	-4.21e-01	0.177	0.22	2.36e-42

EYS	1.00e-45	-8.48e-01	0.391	0.428	4.07e-41
PCDH9-AS2	1.61e-45	-2.50e-01	0.639	0.493	6.57e-41
ZNF804B	3.13e-45	3.06e-01	0.32	0.267	1.27e-40
GRIA4	2.59e-42	-6.11e-01	0.938	0.809	1.06e-37
MEIS2	2.91e-41	4.01e-01	0.585	0.551	1.19e-36
CDK5RAP2	4.58e-39	-3.19e-01	0.632	0.509	1.87e-34
VWC2L	1.40e-37	-3.61e-01	0.178	0.224	5.70e-33
CDH20	2.04e-37	-7.54e-01	0.426	0.479	8.31e-33
BCOR	4.57e-37	-2.55e-01	0.174	0.219	1.86e-32
GABRA1	1.11e-36	-3.03e-01	0.694	0.582	4.51e-32
POU6F2	1.62e-34	-3.24e-01	0.264	0.211	6.59e-30
COL5A2	1.74e-33	-7.32e-01	0.174	0.213	7.09e-29
LINC02645	4.15e-33	2.56e-01	0.103	0.07	1.69e-28
OLFM2	4.85e-33	-3.41e-01	0.347	0.38	1.98e-28
P2RY14	9.37e-33	-3.01e-01	0.322	0.354	3.82e-28
ELL2	1.36e-32	-4.22e-01	0.395	0.43	5.55e-28
PTCHD1-AS	2.41e-32	-3.76e-01	0.082	0.117	9.83e-28
WLS	1.53e-31	2.65e-01	0.207	0.166	6.22e-27
HSPA8	4.68e-31	-3.52e-01	0.262	0.307	1.91e-26
MYO1B	2.79e-30	-2.89e-01	0.2	0.241	1.14e-25
LINC02055	5.18e-30	-8.88e-01	0.216	0.25	2.11e-25
LINC00624	1.88e-29	3.58e-01	0.164	0.128	7.64e-25
PCDH11X	3.83e-29	1.31e+00	0.414	0.385	1.56e-24
IQGAP2	5.36e-27	2.58e-01	0.137	0.103	2.18e-22
TSBP1	1.62e-26	-2.53e-01	0.188	0.22	6.58e-22
NTNG1	2.67e-24	-1.02e+00	0.434	0.463	1.09e-19

TTC6	1.93e-23	-5.74e-01	0.346	0.359	7.87e-19
PRKG2	3.28e-20	-2.95e-01	0.376	0.401	1.33e-15
HDAC9	1.52e-19	-4.82e-01	0.847	0.722	6.17e-15
RSPO2	2.93e-19	-3.34e-01	0.322	0.351	1.20e-14
TTN	4.36e-19	-7.70e-01	0.311	0.331	1.78e-14
CALM2	5.62e-18	-1.09e+00	0.266	0.299	2.29e-13
TRPS1	4.84e-17	-1.59e+00	0.778	0.638	1.97e-12
RGS4	2.38e-16	-2.65e-01	0.299	0.325	9.70e-12
TRHDE	1.14e-15	3.11e-01	0.377	0.462	4.63e-11
ZNF385D	2.21e-14	1.12e+00	0.199	0.176	9.02e-10
STAT4	7.33e-14	-2.67e-01	0.175	0.201	2.99e-09
HS6ST3	4.82e-13	-6.96e-01	0.947	0.823	1.96e-08
LINC01090	8.52e-12	5.12e-01	0.196	0.172	3.47e-07
MATR3	1.53e-11	-3.16e-01	0.116	0.095	6.23e-07
MPPED2	2.61e-11	-3.39e-01	0.469	0.481	1.06e-06
FUT9	2.94e-11	-3.56e-01	0.748	0.624	1.20e-06
TANC1	2.96e-11	-4.28e-01	0.196	0.216	1.21e-06
NDUFB8	1.53e-10	-2.82e-01	0.176	0.151	6.21e-06
ARHGEF3	4.15e-09	-3.05e-01	0.665	0.556	1.69e-04
BMPR1B	4.01e-05	-3.92e-01	0.347	0.353	1.00e+00
LMO4	4.42e-05	-3.66e-01	0.584	0.564	1.00e+00
SORCS1	5.91e-05	-3.34e-01	0.6	0.581	1.00e+00
SLIT2	8.24e-05	-3.40e-01	0.634	0.65	1.00e+00
CBLN4	2.32e-04	-2.56e-01	0.345	0.335	1.00e+00
KCNMB2-AS1	2.43e-04	-3.12e-01	0.504	0.431	1.00e+00
CNTNAP3B	2.04e-02	-6.39e-01	0.5	0.419	1.00e+00

HOPX	2.21e-02	-3.70e-01	0.546	0.462	1.00e+00
LPP	2.56e-02	-4.53e-01	0.711	0.604	1.00e+00
LINC01931	1.72e-01	-3.80e-01	0.129	0.121	1.00e+00
KLHL32	2.42e-01	-6.41e-01	0.521	0.485	1.00e+00
HHAT	7.53e-01	-2.84e-01	0.367	0.348	1.00e+00