

All the genes that were considered as expressed in intestinal PCs of Cgd patients and disease controls sorted in the order of most abundant genes to least abundant genes. Values are log values given out by DESeq2, which is equivalent to log2 scale, but normalized by library sizes. Thus the values are comparable between samples/libraries.

Gene	DiseaseControlPcs_51	DiseaseControlPcs_52	DiseaseControlPcs_53	DiseaseControlPcs_54	CeD_Non_TG2_S1	CeD_Non_TG2_S2	CeD_Non_TG2_S3	CeD_Non_TG2_S4	CeD_Non_TG2_S5	CeD_Non_TG2_S6	CeD_Non_TG2_S7	CeD_TG2_S1	CeD_TG2_S2	CeD_TG2_S3	CeD_TG2_S4	CeD_TG2_S5	CeD_TG2_S6	CeD_TG2_S7	
B2M	17.57386111	17.55243905	17.55576752	17.40488137	17.83926465	18.00411475	17.90146784	17.58264087	16.93782372	17.25196655	17.64616975	17.91427185	17.98171268	17.87140539	16.58085969	17.21222519	17.10440883	17.13099134	
UBC	17.50597127	17.70421949	17.50379678	17.44523393	17.53436678	17.48431263	17.63471548	17.41302851	16.9392086	17.67120668	16.80041904	17.31882817	17.43899108	17.12914865	17.27877438	17.80837502	16.64049879	17.23711959	
TNPO3	17.56870719	17.41059444	17.34859778	17.42003939	17.44179928	17.24632374	17.23154241	17.07354751	17.56438849	17.56438849	17.43799239	17.25471928	16.82820397	17.0137745	16.86464094	17.2731122	16.96338008	17.2731122	
HERPUD1	17.15725156	17.34019766	17.05204882	17.05204882	17.34019766	17.24671778	17.39704213	17.20622229	16.58957261	16.97301046	16.58957261	17.4343743	17.42746332	17.16549270	16.80377865	17.00208684	16.67075343	16.78076167	
CS2CD3	16.93595975	17.17718983	17.12500845	17.48194341	17.02440097	17.30542172	17.2812875	16.03514084	17.1888665	16.73995352	16.86039571	17.0105752	17.41823702	17.51875439	16.35102314	17.18393316	16.8802516	16.8290174	
EEF1A1	16.7325308	16.68698676	16.89055925	16.81773611	17.6388163	16.60884101	16.53685394	16.53685394	16.21928881	16.25142453	17.19655008	16.60962568	16.33208337	16.20320348	16.98976647	16.83371001	16.16014317	16.47745526	
MT-CYB	16.0373460	16.46789065	16.19386152	16.45730966	16.59485821	16.39787745	16.40805257	16.81162064	16.45456996	16.67919362	16.16217356	16.5832802	16.16868129	16.16899584	16.63444288	16.95369034	17.25400599	16.6598312	
DUSP1	16.84797685	16.80979125	16.60769064	16.80979125	16.54742068	16.26995889	16.38519159	16.26995889	16.0508617	16.27832012	16.95852289	16.22432447	16.38157888	16.43204374	16.54816126	16.45652283	16.10314538	16.5993378	
HPAS2	16.38218272	16.4398555	16.12127744	16.4398555	16.38576476	16.21590229	16.20899753	15.4888326	16.10143294	16.59945936	16.15607168	16.5462687	16.2932697	16.37739584	16.00245479	16.2027663	16.6348766	16.18877651	
HPM5	15.82993532	16.18619929	16.07548221	16.07478948	16.23212559	16.38242944	16.84130293	16.75468741	16.25478818	16.11590963	16.11551893	16.24784647	16.30099705	16.64767817	16.92139571	16.51524556	16.2306252	15.92596346	
MT-CO2	15.78117815	16.15375942	16.02484821	16.02484821	16.15375942	16.14188655	16.14809871	16.18584677	16.15343194	15.38478001	16.31945493	16.21251071	16.43294734	16.17683926	16.63751279	16.88616124			
HPSPH81	16.01805767	16.01682732	16.01682732	16.1743105	16.19006707	16.32718091	16.57678469	15.70958275	15.95109187	16.75462523	16.28183953	16.11755351	16.40792224	16.9227979	16.7667483	16.10806577	16.1520693	16.0816134	
RGS1	15.76247229	16.29256894	16.01939452	16.01939452	16.0394452	16.50820447	16.05696349	16.05696349	16.0102246	15.5989787	15.72344775	16.14931306	16.6834141	16.35197503	15.53011271	16.2788555	16.30494512	15.5269817	
MZB1	15.94705643	16.22437372	16.50379254	15.8273393	16.14844892	16.49257368	16.23826023	15.55476486	16.85842034	15.75774805	16.89429349	16.85092884	16.26865762	16.9962825	15.8102749	16.45466337	15.31189226	15.96788504	
FTL	15.96768504	16.33178568	16.14693865	16.14693865	16.7807075	16.05418372	15.88102128	15.88102128	15.46842919	15.77317465	15.77317465	16.0784262	16.0784262	15.80437742	15.73107482	15.48026405	15.93937724	15.93937724	
SSR4	15.97678141	16.1128149	16.1436528	15.77350496	16.99319479	16.19945058	16.14006399	15.46041897	15.71544143	16.15370367	15.82074418	16.5246761	16.04425471	16.08404417	15.22316618	15.39691974	15.56214455	15.4349971	
RFC5	16.0307683	16.29713417	16.15523375	16.12677842	16.05080893	15.55478075	15.98794939	15.65234909	16.05080893	15.65234909	15.93264471	16.82325782	15.13572141	17.3751852	15.5047331	15.80980006	15.7984907	15.92395198	
MT-CO3	15.4268113	15.76125944	15.80022262	15.79611197	15.48010889	15.79635605	15.61655651	15.97784274	15.97784274	16.08924301	15.19897548	16.09550975	15.49963043	15.30346654	15.82551271	15.91000214	16.50261631	16.25588783	
NR3A1	15.84677889	15.90524115	15.77272989	15.50043628	16.56042873	15.87060306	15.54219599	15.54219599	15.54219599	15.54219599	15.54219599	15.54219599	15.54219599	15.54219599	15.54219599	15.54219599	15.54219599	15.54219599	15.54219599
JUN	16.45708962	16.34571418	16.19112992	16.34571418	16.19112992	16.19112992	16.19112992	16.19112992	16.19112992	16.19112992	16.19112992	16.19112992	16.19112992	16.19112992	16.19112992	16.19112992	16.19112992	16.19112992	16.19112992
MT-ND5	14.98604136	16.68816458	15.57061882	15.9892849	15.07811533	15.71303608	15.76871902	16.1285559	15.51607225	16.26807262	15.40764484	15.79202037	15.68443867	16.81693392	16.38884966	16.21977443	16.96004451	16.2804493	
RPL3	15.93891164	16.14947487	15.88621778	15.90355158	15.67670799	15.65682158	15.65682158	15.65682158	15.65682158	15.65682158	15.67118224	15.71484402	15.64802684	16.68743972	16.8205418	15.93519501	15.01263553	15.13304889	
H3FB	15.67699945	15.65923804	16.05036217	15.92249593	15.65659497	16.13031837	15.51461121	16.93188353	15.54205511	14.99640263	15.75994002	16.61664992	16.28747569	16.668922	15.14220451	15.35215728	15.09428789	15.97004191	
MT-ND4	15.2873029	15.40111604	15.45242615	15.42631826	15.07509704	16.5292622	15.29824601	16.44196296	15.39908004	15.39908004	15.58981358	15.74035708	15.41594255	16.25690202	16.25872062	16.5676442	16.20728626	16.5676442	
MC1R	14.75867257	15.06629793	15.04120163	15.2800326	15.14557144	15.38671622	15.43766456	15.56592965	16.07747565	15.69964719	15.93638579	14.95731153	15.34617123	15.35188811	16.06394898	16.21516438	16.63677034	15.73796787	
KLFB	15.4355793	15.08597923	15.12909491	15.70393158	15.84051134	15.84051134	15.84051134	15.84051134	15.84051134	15.84051134	15.84051134	15.84051134	15.84051134	15.84051134	15.84051134	15.84051134	15.84051134	15.84051134	15.84051134
KLFA	15.18932037	15.48597793	15.42597933	15.116538	15.42597933	15.42597933	15.42597933	15.42597933	15.42597933	15.42597933	15.42597933	15.42597933	15.42597933	15.42597933	15.42597933	15.42597933	15.42597933	15.42597933	15.42597933
MT-CO1	14.65853774	15.43858372	14.86265774	16.04065799	15.94551199	15.49841589	15.48961368	17.2676576	15.17124431	15.9460144	14.87986698	16.37538989	15.14362877	16.46880502	17.11208234	15.47829739	16.18390576	16.79794717	
HUA-B	14.44871711	15.05253732	15.38245653	15.75537738	15.75537738	15.75537738	15.75537738	15.75537738	15.75537738	15.75537738	16.10554496	15.34128828	15.37924967	15.82061821	14.81214605	15.48694505	15.4153784	15.48694505	
YPL5	15.05109815	15.23547123	15.06104376	15.46261636	15.16868041	15.75371632	15.55525254	14.72148883	15.58937922	15.24352992	15.79713665	15.17626833	15.65113573	16.66694493	14.73865505	15.62027908	15.4821966	15.54273631	
MT-ATP6	14.90386638	15.12628714	15.05005705	15.0772194	16.3183474	15.48110898	15.19511282	15.9061392	15.0691376	15.37644743	14.96390767	15.57161461	15.2684746	15.32816296	15.99958761	15.70002102	16.00488278	15.99958761	
TRIB1	14.89515813	15.21804648	14.9992465	15.06605977	14.97478212	15.04651138	15.46136571	15.25063464	15.48263882	15.00313413	15.62377283	15.29093963	15.04483637	15.31410328	15.58248991	15.83906326	15.25714747	16.00479646	
NR1H5A	14.81212694	15.14653809	14.86918874	15.08408987	14.28049898	15.07538319	15.0323252	15.42710075	16.06904328	15.63951478	15.63951478	15.63951478	15.63951478	15.63951478	15.63951478	15.63951478	15.63951478	15.63951478	15.63951478
DNX5	15.08719362	15.08719362	15.08719362	15.08719362	15.08719362	15.08719362	15.08719362	15.08719362	15.08719362	15.08719362	15.08719362	15.08719362	15.08719362	15.08719362	15.08719362	15.08719362	15.08719362	15.08719362	15.08719362
HUA-C	15.50832808	14.88146967	13.40305143	15.17540665	15.64932253	15.10436455	15.43839386	14.84822456	15.4701423	16.5635387	14.05008778	15.41651429	14.93282189	15.31876882	14.61915177	14.78007761	16.41293252	13.68928292	
MT-ND2	14.564377	14.8462254	14.76740887	14.76740887	14.76740887	15.10617036	15.08668637	17.71294058	15.62457083	15.07340064	14.86624423	14.7171166	14.81070283	16.62004208	15.56781716	16.16679001	15.61168523	15.61168523	
JUNB	15.1657280	15.25403434	15.10246705	15.0340415	15.06470502	15.06631895	15.26452129	14.14649495	15.47846321	14.76460393	14.61252117	14.89770464	15.52003489	15.31631441	14.17397263	15.00709757	14.7772395	14.77748547	
IER2	15.6870007	15.69257459	15.0010985	1															

EI4G2	12.6942592	12.77561728	13.10110369	12.90384251	13.05787456	12.80760816	12.98520251	13.09617422	13.08601381	12.96892718	13.13985159	12.72820706	12.45345567	12.80690349	13.18253643	13.07434073	12.78852096	12.9668873
TP31N1P1	11.7296594	12.25637962	12.48663246	12.63751095	12.64700806	12.82190764	12.86194387	13.17452484	13.30569346	13.14205474	12.20842802	12.78156075	12.79015114	13.22169843	13.9280693	13.78742689	13.50125357	13.06868838
RP525	12.97706552	12.95465931	13.01866081	12.95462988	12.99589808	13.06203428	12.94905453	12.41825417	12.51252566	12.46521159	12.98717304	13.00303291	12.66701384	12.44873591	12.5089231	12.69867567	12.97898983	12.47329627
PUPP5	13.1254089	13.12477641	12.93872053	13.01172435	12.95786849	13.10202351	12.84504171	12.77484582	12.74413669	12.71167589	13.18518601	13.04408232	13.3642133	13.1654994	12.94969759	12.78402942	12.62097821	12.91976627
HPM1	13.27559944	13.27559944	13.27559944	13.27559944	13.27559944	13.27559944	13.27559944	13.27559944	13.27559944	13.27559944	13.27559944	13.27559944	13.27559944	13.27559944	13.27559944	13.27559944	13.27559944	13.27559944
CRELD2	13.18572882	12.468282	13.93280892	13.03785253	13.03785253	13.03785253	13.03785253	13.03785253	13.03785253	13.03785253	12.79154116	12.72756299	13.45903221	12.9699951	12.54808151	12.61206214	12.70530492	12.70530492
ATPSA1	12.53829043	13.07054758	13.0744881	12.85863652	13.04313107	13.0701588	13.07561281	12.5398553	12.9598871	12.54642447	13.19787116	13.0607088	12.91017422	12.4376886	12.486535	12.74630885	12.46441035	13.0160577
TM584X	12.68228924	12.89800047	13.01693824	13.09507593	13.12313318	13.79306497	12.6466274	12.46204947	12.53530929	12.48298369	13.12759204	13.06004895	13.73235476	12.5818141	12.32338702	12.56152048	12.95787943	13.2334289
TAGLN2	12.14825255	12.8596725	12.78836158	12.74942407	12.52075662	13.81541916	12.64534106	13.08602826	13.27442791	12.63342831	13.76556339	12.52002788	13.74624731	12.45298582	13.07366353	13.31974775	12.99114909	13.18389757
CD79A	12.90847891	13.3622428	12.9256433	12.69870398	13.03176913	13.56568442	13.24195167	12.81601054	12.65372936	12.65372936	12.9703689	12.97942632	13.80814935	13.55188808	12.95684471	12.79911705	12.79911705	12.47338896
RP17A	12.90212587	13.37302658	13.04043077	13.01554546	12.90428602	13.15107834	12.90755548	12.30824384	12.9570149	13.0023139	12.96549572	12.9727803	13.07392594	12.60659999	12.26610322	12.60560769	12.32926688	12.6058617
ELI2	13.97821982	12.19910377	12.18008982	12.15604151	12.01215737	12.41754956	12.94145116	14.04091334	12.84559738	13.09276613	14.08603746	11.86171962	12.97804824	12.91911029	13.99087649	13.11852675	12.87266728	13.82823857
RP524	13.04817923	13.10735884	13.01835279	12.913054	12.913054	12.913054	12.913054	12.913054	12.913054	12.913054	12.58348582	13.41000452	12.86069434	12.63584704	12.5634505	11.92079374	12.72047472	12.6586651
AHNAK	10.76165511	13.3942014	10.89987251	11.5682165	11.365103	13.1889327	10.8519632	12.98414656	12.20408872	12.91709952	12.40726387	11.15597591	13.8850686	11.20611458	13.01856941	13.35415432	12.83416636	13.3208952
SERF2	12.95348968	12.87978207	12.2561194	12.7741879	12.7077111	13.1314157	12.6142408	12.43836021	12.43836021	12.43836021	12.66992648	13.17715652	13.15516393	12.87919691	12.2974007	12.49158404	12.57491136	12.86041516
RPL17	12.86457114	13.00964701	12.99196376	13.00031232	12.92033366	12.83790088	12.88918352	12.70253639	13.36930225	12.46983221	14.7185678	12.85305787	12.3664533	12.3963892	12.04823692	12.93363035	12.89227264	12.49991826
WARS	12.41498473	12.28044526	12.28912373	12.88191222	12.99377309	13.12115147	12.77449445	12.69961911	13.05922824	13.00956419	13.03895132	12.78709712	12.86964475	12.846961	13.09448918	12.29125965	12.88083721	13.3464195
SEC62	12.88210973	12.40718157	13.13353072	12.8246375	13.0361807	13.29303862	13.08606319	12.47289492	12.47127939	12.71700676	12.651613	13.50257435	13.40405109	12.67915901	12.51599123	12.68245359	12.63244244	12.62298521
CD27	13.08873679	13.44435413	13.14199721	13.33956651	13.45421722	13.7281462	12.9535525	12.81514845	13.19025868	12.76556853	12.89692781	12.56149627	12.68110944	12.47237455	11.83502929	12.63972852	11.75270728	12.63882724
EF1B2	13.17434472	13.41618559	13.17434472	13.08357586	13.07484893	13.0017589	12.89444368	12.49226653	12.12826266	12.56510285	13.21422717	12.01203295	12.52190902	12.53039432	12.07380515	12.77241893	12.53050588	12.41432112
SSR2	13.17055688	13.25200012	13.1247319	12.94001381	12.94001381	12.82407457	12.68206867	12.59154165	12.45298404	12.53858451	12.81376704	12.91578497	12.93195145	12.7103161	12.20313752	12.67224832	12.39014484	12.32884313
RP515	13.09908553	13.23967047	13.23194714	13.02986652	13.0646843	12.87956647	12.17816405	12.94109023	12.17816405	12.94109023	12.75943668	13.03917478	12.72242841	12.7152175	12.5577766	12.51963688	12.24408851	12.25626926
TNFR5F17	13.25925991	13.19066786	13.2139045	13.02444236	13.22180734	13.1534765	12.88208586	12.18594935	12.70861765	12.32336469	12.77132375	13.02531929	12.90529695	13.40029272	13.71556991	12.24967979	12.0565479	12.2588754
SRF3	13.18398503	12.98811829	13.42372815	12.75198527	12.7919714	13.09997404	12.5979706	12.63538432	12.05068115	12.54270744	12.59566467	12.90752181	13.30064657	12.85384359	12.95819881	12.79898101	12.5943832	12.5818676
RPL7A	13.20696596	13.28156884	13.29661235	12.71061617	12.90623827	13.03691441	12.61659621	13.1746113	12.34532232	13.26053831	12.86650311	12.47456525	12.36164466	12.04983244	12.66710553	12.36926562	12.32887729	12.32887729
TAGAP	12.4628774	12.29374938	11.86776451	12.68222638	12.78962827	13.2237923	12.46558258	12.95614784	12.95614784	12.95614784	13.01295448	12.7167596	13.04374716	12.91811783	12.03286572	12.12717668	12.68668272	12.68668272
MYAD0	12.45459325	12.3062682	12.7743989	12.89163969	12.30911166	13.46553979	12.55261695	12.45436311	13.35782448	12.88178777	13.38511272	13.18938287	13.08042066	12.4744645	12.6506662	13.40495323	13.04127186	12.45894616
CPD1	12.82872315	12.82872315	12.82872315	12.82872315	12.82872315	12.82872315	12.82872315	12.82872315	12.82872315	12.82872315	12.82872315	12.82872315	12.82872315	12.82872315	12.82872315	12.82872315	12.82872315	12.82872315
MYADM	12.83682163	12.80671605	12.86771157	12.80671605	12.86771157	12.80671605	12.86771157	12.80671605	12.86771157	12.80671605	12.86771157	12.80671605	12.86771157	12.80671605	12.86771157	12.80671605	12.86771157	12.80671605
RP55	13.06298544	13.19076428	13.29556665	12.86901981	12.7877856	12.9453307	12.80633855	12.25685632	12.83336518	12.08425745	12.8664398	12.81844821	12.56564343	12.42277439	11.73474783	12.42729355	12.2080183	13.4515786
CS38A10	12.68350607	12.34579047	12.92924604	12.68350607	12.34579047	12.92924604	12.68350607	12.34579047	12.92924604	12.68350607	12.34579047	12.92924604	12.68350607	12.34579047	12.92924604	12.68350607	12.34579047	12.92924604
RAB30	10.97336193	11.88126213	11.96033601	12.15206391	12.12231851	12.77057474	12.91788991	13.35929751	12.76923963	12.91772141	13.14903979	12.57739067	13.18701998	13.37255778	13.81305894	13.47152464	13.44447392	13.7452525
BTG1	12.77477292	12.811325127	12.8009552	12.8246375	12.62716327	12.85837812	12.84413022	12.83433865	13.38893188	12.47784241	12.53563217	12.68767182	12.75598088	12.66492126	13.15351478	12.84801333	12.76808895	12.76808895
RP58	12.94155933	13.04217857	13.12214671	12.96015208	12.85936411	12.79435445	12.640799	12.56217405	13.33040603	12.4366355	13.21746642	12.64517853	12.53093731	12.15004753	12.00146548	12.88959264	12.73601649	12.47154388
DNAI1	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953
LMAN1	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953	12.56878953
CTYP	12.21554348	12.6457896	12.34636683	12.5640299	12.6027057	13.04593283	12.71952042	12.72129909	12.8776291	12.6350454	13.13557282	12.49755739	13.09624445	12.73763705	12.82629443	13.05150397	12.9865642	12.8506177
JTB	12.75082963	12.92351799	12.98119122	12.68584761	12.99519773	12.97752704	12.9881451	12.30587213	12.30587213	12.30587213	13.1642555	13.02475288	12.87343477	12.91048815	12.06365089	12.12540096	12.23460511	12.83779759
OST4	12.76615756	12.98871302	12.99196376	12.69936447	12.89532827	13.04191553	12.75232902	12.2408027	12.5776259	12.2023277	12.54239614	12.8049249	12.98349434	12.73336991	12.17711503	12.4620682	12.19495651	12.32776261
CS3A2	13.04555349	12.97638386	12.97638386	12.96407957	12.79638386	12.79638386	12.79638386	12.79638386	12.79638386	12.79638386	12.79638386	12.79638386	12.79638386	12.79638386	12.79638386	12.79638386	12.79638386	12.79638386
PABPC1	13.03428233	12.7836733	13.00171971	12.13621465	12.62035818	12.89475124	12.7147811	13.01211937	12.5685294	12.5685294	12.20017331	12.49356356	12.69442439	12.78240205	12.358193	12.63858252	12.62049657	12.23620768
EAR2	12.95462163	12.70370644	12.7613532	12.80944783	12.71462088	12.7017011	12.6735820											

SRP72	11.89653089	11.82824525	11.90126615	11.60562401	12.2441055	12.18677063	11.90876664	11.93146684	12.09530113	12.12347359	12.11212316	12.16845853	12.23245915	11.72219346	12.06217988	12.41047983	12.2018453	11.90842327
GUK1	11.97757867	12.29443872	12.35291314	12.2506107	12.3561031	12.44134009	12.15745545	11.88189109	11.93668899	11.8648946	11.92646554	12.53422009	12.74395016	12.30400978	11.79435116	11.75384809	11.96153702	11.99161598
ICAM3	12.1795372	12.2356651	11.95907874	12.0666511	12.056232	12.26600188	12.24512417	11.85805107	12.23568379	11.97425861	11.91498904	11.93062255	12.33218106	12.07514848	11.61386116	11.76595952	11.85166287	11.95047756
HSPAL3	12.08317515	11.34496667	11.75504455	12.25813851	11.95354054	12.18557448	11.33958127	11.91501998	12.24498846	11.75021338	12.40551433	12.20533622	12.40456256	12.35432414	12.04480878	12.19239386	11.67593732	12.00224853
RP26	12.36556544	12.45571598	12.45671701	12.37800834	12.45717111	12.65174701	12.06770394	11.51910176	11.46809704	11.46809704	12.46540636	12.43514318	11.90786569	11.64430007	11.98466627	11.68301078	11.65798624	11.03540260
ATP11	12.3084623	12.35857009	12.66157027	12.38657851	12.35648327	12.24603489	12.26454959	12.35482337	12.36517451	11.82367153	12.22711263	12.05546663	11.52999998	11.79280663	11.04486875	11.79280663	11.52600733	12.222206
RP15	12.0014633	12.20079807	12.21294144	12.24151022	12.19357559	12.37664842	12.11149711	11.58913187	12.18744104	11.52397121	12.33992427	12.98703111	12.13644318	11.60430215	11.07799066	11.80529487	11.7632811	12.01582858
COX4I1	12.03151855	12.26034034	12.16538481	12.16780591	12.39668777	12.22737128	12.11577861	11.65673333	12.04417799	11.52254606	12.074542	11.82951767	12.04673241	12.12975788	11.41662238	11.64666971	11.42271757	11.61461949
BSG	12.3800923	12.12868004	12.3542606	11.87558604	12.5093732	12.57480012	12.45418436	11.77020116	12.06014384	11.86931431	12.03189141	12.21357049	12.45064808	12.03770784	11.7216875	11.87513741	11.90001065	11.96609626
MEF2C	12.521246	12.71471969	12.24183678	12.5231296	12.5977463	12.19112947	11.8511551	11.68495296	12.0956230	12.21813011	12.33547815	11.97927491	11.78735956	11.77220593	11.84916548	11.34961588	11.74909378	11.74909378
RP32	12.42226825	12.66114413	12.64480254	12.61147516	12.31011412	12.08995706	11.99686818	12.52074832	11.59617884	11.59617884	12.41201623	12.19771355	11.83171118	11.7564892	11.12983505	11.99325299	11.64723849	11.86186826
COX6A1	12.5396661	12.34291646	12.11957298	12.04354294	12.2985815	12.51909219	12.15252629	11.619068	11.90900074	11.57689504	12.01936957	12.02437008	12.07013283	12.02847876	11.73259029	11.63486259	11.52386435	12.61895613
PN1	11.96770717	12.19002462	11.89187485	12.11277265	12.1277265	12.63704327	12.25896368	11.52732468	11.8453997	12.25015018	12.65575787	12.615007	11.80079138	11.78730098	11.7554791	12.66698782		
RRB4	11.66229033	12.26853056	12.10277912	11.89418538	12.25391928	12.52892666	11.96146461	11.68066841	12.12235029	11.7681148	11.95033417	12.55171687	12.30200489	12.27686886	11.63626892	12.16625286	11.78231166	11.70565758
SNR9A	11.99049386	12.42968688	12.19610332	12.06981268	12.11910327	12.52374804	12.20720745	11.9737369	12.6989822	11.73378524	12.48593268	11.61100418	12.33986457	11.72313635	12.1568111	12.392975	11.4863701	11.9416487
BM11	12.14287474	12.09447467	12.28371028	11.27763528	12.33845761	11.68751962	12.38650818	11.98550536	12.0816965	11.8220515	11.88837304	12.37959631	11.68587288	12.54969447	11.91902682	12.07199181	11.8004806	11.34629722
RP24	12.1036705	12.58189423	12.42067874	12.35935152	12.33076118	12.25795832	12.03413515	12.19351755	12.12962429	11.97310149	12.01957657	12.12726627	11.80237642	11.53734194	10.83325129	11.7361434	11.5376973	11.61681267
TM9F3	11.97294967	11.39791712	11.51584506	12.0252556	12.892265	11.6153723	11.64624156	12.0465263	12.34431416	12.36522928	12.35652229	12.6750819	11.70102274	11.73628022	12.38073045	12.47500781	11.98306209	12.2631657
SEC1A1	11.6364477	11.18178419	12.01937429	12.03815297	12.01937429	11.93160023	12.1204761	11.84404233	12.08908275	12.35352098	12.3192927	11.66051368	12.16761993	12.52578996	11.9288866	11.97333051	11.98306209	11.96898813
GALTSR	12.0364677	12.30131081	12.52420028	12.12170298	12.03112797	11.90480095	11.9218333	12.0745763	12.35844659	11.67340833	12.13047683	12.07949641	11.83015755	12.09482219	12.04600333	11.45935367	11.45935367	11.55798624
ARC2	11.81932951	12.01938832	11.64958873	12.16660637	12.14823854	12.12985668	12.18608476	12.01613969	11.81959733	11.7056098	11.98489497	12.17764329	12.18083402	12.51360657	11.92917041	11.6071431	11.5376973	12.12795036
CLM1	12.04242143	12.14763372	12.31084623	11.85196299	11.96589494	12.57915171	12.02367093	12.16436557	11.89563002	11.9651951	12.07302943	11.97098582	12.01104884	11.9926313	12.0417335	11.90031217	11.6071431	12.53664156
ENO1	12.05151299	12.56860658	12.05702801	12.29952678	12.2281944	12.20832306	11.9800895	11.57057529	11.93123325	11.54017647	11.96354463	12.03335581	12.32192698	11.95369875	11.99234094	11.9868461	11.53735289	12.1282447
UFM1	12.93324674	12.10399632	12.16216222	12.15348024	12.03474637	11.9525883	11.84882937	11.95572801	11.78031984	11.80313864	12.33166648	12.009466	11.9788671	12.26271853	12.03639703	11.83120028	11.617286035	12.11286035
CO164	12.83700356	12.10832942	12.10832942	12.23050349	11.93422241	12.33989767	12.33901273	12.86968397	12.16401124	12.00045675	12.35204799	11.91198794	12.30267512	12.0190141	11.82869104	11.96554943	11.35454762	12.20001248
EPRS	11.99341957	12.1139245	11.83010458	12.24637459	11.89962233	11.95125942	11.79319674	11.63959972	12.10337598	12.00357214	12.03864601	12.01304032	12.13892197	11.69648594	12.06531208	12.21002266	12.24514902	12.2402413
RNASE2	12.17427403	12.36485708	12.79711511	12.20710425	12.258554	11.58959951	12.07498263	11.49957469	12.0785998	11.93975668	11.62837943	12.27174082	11.82336679	12.24642489	11.37126903	11.61745089	11.78462886	11.0257604
SNR9B	11.9343995	11.81027795	11.50898511	11.84027795	11.50898511	11.50898511	11.84027795	11.50898511	11.84027795	11.50898511	11.84027795	11.50898511	11.84027795	11.50898511	11.84027795	11.50898511	11.84027795	11.50898511
CTSS	11.88672206	12.35749274	12.14844025	12.1171318	12.14844025	12.49305242	12.21375347	12.21375347	12.21375347	12.21375347	12.21375347	12.21375347	12.21375347	12.21375347	12.21375347	12.21375347	12.21375347	12.21375347
SLC25A5	11.69731938	12.18610795	12.05667646	11.83801795	12.01938885	12.19105861	11.9957111	11.85379212	11.74251414	11.38512571	11.97913014	12.18262525	12.05017178	12.00500945	11.80297489	11.38469886	11.21407817	12.03667275
ADIPOR1	12.23894063	11.82510455	12.23894063	12.23894063	12.23894063	12.23894063	12.23894063	12.23894063	12.23894063	12.23894063	12.23894063	12.23894063	12.23894063	12.23894063	12.23894063	12.23894063	12.23894063	12.23894063
Coorf62	12.44550238	12.51740052	12.557399	12.06176126	12.42581812	12.14717164	11.90292877	11.38419742	11.80191479	11.63946366	11.48645608	12.63989262	12.16732637	12.60773891	11.69776167	12.47415358	11.55532127	12.16193853
POCD4	12.16645365	12.41174918	12.16645365	12.16645365	12.16645365	12.16645365	12.16645365	12.16645365	12.16645365	12.16645365	12.16645365	12.16645365	12.16645365	12.16645365	12.16645365	12.16645365	12.16645365	12.16645365
PRDX1	11.75695078	12.26204996	12.14712453	11.85450644	12.08651035	12.46411467	12.04389277	12.06424209	12.09795498	11.79609542	12.01389642	12.0385785	12.32835004	11.73311169	12.17206352	11.8645023	11.88316765	11.49378333
SARS	11.9749395	11.7167722	11.7167722	11.9749395	12.29522385	12.38650519	12.1651377	12.2620989	11.57357392	12.04604724	11.92476481	12.02390267	12.28436259	11.63807359	11.92629666	11.5380179	11.5380179	11.62869624
INSIG1	11.49317866	11.01452883	12.01452883	11.01452883	12.01452883	12.01452883	12.01452883	12.01452883	12.01452883	12.01452883	12.01452883	12.01452883	12.01452883	12.01452883	12.01452883	12.01452883	12.01452883	12.01452883
YWHAE	12.03031448	12.02873595	12.0100725	11.91587496	12.22784161	12.39134843	12.26928628	11.59228654	12.12035538	11.74696222	11.88466631	12.15206618	11.81741612	12.44346992	11.44072993	11.76141031	11.68980792	12.7038403
CLK1	11.83367349	11.37649126	11.9107587	11.9107587	11.43351586	12.06208558	12.59563638	11.77449715	11.87107089	12.15307177	11.82748701	12.17206547	12.60664128	12.03159916	12.19603197	12.19603197	12.19603197	12.19603197
CKAP4	12.18645188	11.97173218	12.38025948	12.09660089	12.05468739	11.65963159	11.25905518	12.22407627	11.79042246	11.91618704	11.82133546	11.91291533	11.49927675	12.08943319	12.41991304	11.96865603	12.09954266	12.14616597
ANKRD37	12.38580843	12.12069738	12.12069738	12.12069738	12.12069738	12.12069738	12.12069738	12.12069738	12.12069738	12.12069738	12.12069738	12.12069738	12.12069738	12.12069738	12.12069738	12.12069738	12.12069738	12.12069738
SFBP3	12.05604359	11.09462819	12.05604359	11.09462819	12.05604359	11.09462819	12.05604359	11.09462819	12.05604359	11.09462819	12.05604359	11.09462819	12.05604359	11.09462819	12.05604359	11.09462819	12.05604359	11.09462819
UFM2	11.43962458	11.57917995	11.81055482	11.73796612	11.73796612	11.81055482	11.73796612	1										

SD04	12.0630525	12.123254032	11.89127046	11.88493337	12.30747482	12.25212582	11.84404833	11.63789445	11.81639274	11.47620218	11.71943358	12.20328822	12.54874721	11.46603622	11.56719393	11.62566575	11.31696974	11.34903021
MAGED1	11.92234697	12.06590341	12.17640373	11.58971461	11.88449961	11.26071244	11.88546597	11.48349508	11.44643414	11.42639794	11.77405524	12.25010766	11.97854941	11.91950683	11.59836011	11.52974705	11.56327446	12.00434138
GIG1	11.57162960	11.7232674	11.80523544	11.00413669	11.79349986	11.42549998	11.83743778	11.26391957	12.01726916	12.07873743	12.19336654	11.43445509	11.75536965	11.45594625	12.43210924	12.13091445	12.08902365	11.5729936
PSMB6	11.78110999	12.02556366	12.13280629	11.73280629	12.13280629	11.85726926	12.13280629	11.44005568	11.38203303	11.28142599	11.384742	12.03054728	12.53723028	11.94088999	11.34215004	11.36445106	11.18284073	11.67415325
MAT3	11.7831327	11.7831327	11.7831327	11.7831327	11.7831327	11.7831327	11.7831327	11.7831327	11.7831327	11.7831327	11.7831327	11.7831327	11.7831327	11.7831327	11.7831327	11.7831327	11.7831327	11.7831327
ARHG0D	11.80460119	12.04667993	12.04667993	12.04667993	12.04667993	12.04667993	12.04667993	12.04667993	12.04667993	12.04667993	12.04667993	12.04667993	12.04667993	12.04667993	12.04667993	12.04667993	12.04667993	12.04667993
BRD2	12.07921078	11.56041917	11.33046596	11.4494065	11.45028031	11.60329829	11.89240522	12.20393172	11.93851022	11.80788308	11.84196616	11.14126634	11.91671578	11.72481372	12.21292652	11.98602988	11.95932411	11.53217411
TORG1	11.63020627	11.87361831	11.40025433	11.86274374	11.97575823	11.43003897	11.52580023	11.96081554	11.57147716	11.25552966	11.53647412	11.77738486	11.31329722	11.68175786	12.13943945	11.82583816	12.3270648	11.95749125
ECH1	11.88215167	12.28305384	12.19948476	11.96833499	11.83970866	11.83047971	11.66052472	10.91784634	11.54377897	11.19492321	11.50219597	12.02124173	11.87941287	11.93940396	10.9947186	11.47048652	11.1486601	11.76803063
ATP2A3	11.39541301	11.45367539	11.1337023	11.31499973	11.82994883	11.8526508	11.957673	11.45283955	11.9241921	11.45283955	11.76601339	11.49944642	11.93374249	12.05875771	12.07757987	11.49818959	12.02339007	11.41747449
ORAI2	12.2856289	12.1915883	12.19608718	12.19608718	12.19608718	12.19608718	12.19608718	12.19608718	12.19608718	12.19608718	12.19608718	12.19608718	12.19608718	12.19608718	12.19608718	12.19608718	12.19608718	12.19608718
ANXA2	11.48377665	11.8902092	11.74066485	11.85126304	11.73724395	12.49668005	11.47500552	12.20614196	11.85385255	11.30765234	11.31119026	11.57971111	11.85745199	11.69748803	12.45099234	11.66741265	11.33927748	12.99871921
MTR3	11.29312314	11.29312314	11.29312314	11.29312314	11.29312314	11.29312314	11.29312314	11.29312314	11.29312314	11.29312314	11.29312314	11.29312314	11.29312314	11.29312314	11.29312314	11.29312314	11.29312314	11.29312314
STGAL1	11.82549258	12.02113038	11.5543206	11.0159753	11.83860409	11.46014693	12.12781116	12.76657464	12.04638774	11.82695753	12.18310562	10.41082424	10.9549357	11.75720362	12.67224745	11.65555298	11.44909204	11.44763416
GRB2	11.87559365	11.41405727	12.25888612	12.2742483	12.25888612	11.79750237	11.85194842	12.18710209	11.77940065	11.77940065	11.78475612	11.75714351	11.76359747	11.67807995	11.95667559	11.66168388	11.44354867	11.92154026
PNRC1	11.80756443	12.07672106	12.36752569	12.14554109	12.0095072	11.72905841	11.56268163	11.77202932	12.23299046	11.62279111	12.27164601	14.2268549	11.94897188	11.14949803	11.74941789	12.198083	11.5003736	12.24508875
CLIC1	11.90689109	11.92121268	11.88560139	12.02277906	11.8152721	12.38257918	11.65813472	11.2530352	11.64616666	11.28114557	11.82983656	11.74646283	11.97735576	11.75929724	11.3536857	11.2928259	11.29597508	11.93411613
PHCC	11.45626379	11.78057137	11.99278173	11.99493422	11.86663872	11.7090669	11.62128067	11.70427369	12.18359037	11.78303249	12.21571474	11.54451168	11.71121185	11.22538875	11.96610555	12.15602658	11.53293985	11.81954666
RHOH	11.00618505	12.11867136	11.61458809	11.96352393	11.8787242	12.1336316	11.61820041	11.8564623	12.18258817	11.57701924	12.34562813	11.53038635	12.61641888	11.70768779	11.96530872	11.96105578	11.43391999	11.52524746
RPS7	12.074398	12.2764213	12.18092888	12.197079	11.8697345	11.65692095	11.51705135	11.252658	12.06382051	11.20820281	12.05115663	12.08774779	11.86032892	10.96989854	10.70377442	11.68444831	11.38188945	11.6086247
CDC69	11.6400231	11.6400231	11.6400231	11.6400231	11.6400231	11.6400231	11.6400231	11.6400231	11.6400231	11.6400231	11.6400231	11.6400231	11.6400231	11.6400231	11.6400231	11.6400231	11.6400231	11.6400231
HSP46	11.0290477	9.466702593	10.01687398	9.161812162	8.526801265	11.0255226	11.50040391	11.20321281	11.92371124	11.79849203	10.33400464	12.5836324	11.74479198	12.51859598	12.02405258	11.99195445	11.43007005	11.43007005
ACL36616.2	11.39828344	10.96454828	10.34955978	11.39410185	10.66799313	12.01052242	12.23928021	12.07746497	12.04081931	11.68236023	12.24097219	11.34126756	9.462531882	12.18372684	11.93057799	11.85824446	11.9366255	11.45621995
MORF4L2	11.65210821	11.75430679	11.15352532	11.9575776	11.91414801	11.38717276	11.60582518	11.69279837	11.78414494	11.95978513	11.55076298	12.18445516	12.04869519	11.86782978	11.63017693	11.795629037	11.63017693	11.795629037
COMMD3	11.7412438	12.22062787	12.20023352	11.99532075	11.92034455	11.90633182	11.82894751	11.79327155	11.56984065	11.58092465	11.94408909	11.9478156	11.74202468	11.21008861	11.69233665	11.66512733	11.4422806	11.4422806
RLP2	11.7675644	12.00190522	12.45514546	11.86716566	11.81065377	11.9646344	11.85657724	11.05050014	11.78419787	10.97102418	11.89711225	11.82399432	11.53397381	10.99654377	10.60088301	11.35714448	11.33340417	11.25729382
IRAK1	11.84424254	11.94715342	11.99484833	11.58147324	11.59034293	11.74802195	11.78362899	11.88156497	11.6442405	11.66470176	11.87137156	11.82084763	11.51876361	12.02149542	11.87582933	11.49691565	11.7396999	11.69249569
IRAK2	11.79519073	11.65429723	12.0314663	11.03814623	12.25245723	11.93238294	11.92169326	11.47061386	11.96330921	11.96330921	11.92387852	11.62946209	11.88126561	10.83869927	11.77719131	11.81262561	10.83869927	11.77719131
DNAI1	11.90373559	11.6709487	11.71034609	11.71034609	11.71034609	11.71034609	11.71034609	11.71034609	11.71034609	11.71034609	11.71034609	11.71034609	11.71034609	11.71034609	11.71034609	11.71034609	11.71034609	11.71034609
TNXP1	12.4382979	12.32691255	12.36142841	12.4483245	12.36110155	11.38239401	11.77468099	11.93737012	12.2859163	11.6736162	10.9306978	12.26920363	11.6824623	11.5253661	11.24826868	11.65451993	11.7449355	10.59398004
TUFM	11.91373575	12.05848234	12.05848234	11.91373575	11.91373575	11.91373575	11.91373575	11.91373575	11.91373575	11.91373575	11.91373575	11.91373575	11.91373575	11.91373575	11.91373575	11.91373575	11.91373575	11.91373575
ACSS1	12.18766607	11.49036585	12.14855157	11.47235481	11.63309893	11.26665237	12.04967809	11.75629757	11.57138214	12.00393166	11.75953976	11.87254884	11.44409375	11.71293865	11.04285027	11.6107564	11.79389011	11.47654773
CALU	10.9494062	11.5743685	11.4696118	11.73218137	11.4626318	11.69082578	11.7751691	11.87867144	11.656924	11.87867144	11.709396243	11.73640573	11.85214731	11.90733628	11.81483339	11.71212086	11.85180984	11.6856542
FBXO18	11.66554848	11.90643964	11.46561319	12.0339148	11.48533558	11.49039996	12.01133786	11.8048939	11.78497502	12.01962411	12.16621116	11.82697028	11.05176975	11.08408928	11.51826955	11.69824809	12.16059395	11.38107359
ICAS2	11.05516166	11.05516166	11.05516166	11.05516166	11.05516166	11.05516166	11.05516166	11.05516166	11.05516166	11.05516166	11.05516166	11.05516166	11.05516166	11.05516166	11.05516166	11.05516166	11.05516166	11.05516166
ARFGAP3	11.56816294	11.56816294	11.56816294	11.56816294	11.56816294	11.56816294	11.56816294	11.56816294	11.56816294	11.56816294	11.56816294	11.56816294	11.56816294	11.56816294	11.56816294	11.56816294	11.56816294	11.56816294
ANAPCS	11.68714887	11.82000304	11.6894	11.91600135	11.70562953	11.77957889	11.53108876	11.99565715	11.29341217	11.7448271	11.64718588	12.12972998	11.42867586	11.95435239	11.95536989	11.4926747	12.00947047	11.73247147
EIFA	11.48372381	11.90975156	11.55578982	11.48372381	11.90975156	11.55578982	11.48372381	11.90975156	11.55578982	11.48372381	11.90975156	11.55578982	11.48372381	11.90975156	11.55578982	11.48372381	11.90975156	11.55578982
WDR45	11.70075665	12.36575693	11.94089916	11.9427714	11.74890515	12.04469235	11.66525376	11.70230914	11.63900831	11.43446344	11.79486052	11.35560229	11.83971131	12.01478489	11.6589769	11.71417024	11.49715434	11.76043660
CAPN2	11.52388211	11.52388211	11.52388211	11.52388211	11.52388211	11.52388211	11.52388211	11.52388211	11.52388211	11.52388211	11.52388211	11.52388211	11.52388211	11.52388211	11.52388211	11.52388211	11.52388211	11.52388211
FBXW7	11.48005515	11.41904906	11.41904906	11.73758483	11.07435272	11.4008444	11.51649322	12.37698702	12.13908375	11.97818274	12.35607162	10.92183915	10.88860165	10.66993485	12.06577082	12.10214365	11.7763939	11.67082138
PSME2	11.35083103	11.50254603	11.81284811	11.48559456	12.04327552	11.95882826	11.91760497</											

AKAP9	11.42656708	11.14041608	11.80977776	11.89587927	11.60930293	11.6845472	11.5284921	12.00140792	11.28266505	11.88647543	11.42212969	11.35434252	11.60864973	12.04729559	11.98645319	11.83047621	12.03502592	11.64034359
TAK1BP1	11.76707537	11.67234677	11.91667331	11.72888242	11.74552723	11.82570626	11.59325005	11.27189955	11.46912355	11.41410375	11.57753433	11.70549825	11.64008752	11.44826433	11.47020497	11.58264479	11.28119214	11.62406552
WNT10A	11.51012019	11.76189133	11.91006827	11.75873037	11.89352288	11.74550655	11.56423308	11.79776054	11.42218616	11.40371626	11.47243056	11.73172629	12.3545024	12.21088709	11.30995364	11.20824272	11.42088898	11.07551558
GOLPH3	11.66668887	11.37637939	11.85617646	11.64153603	11.84277735	11.95393949	11.79684311	10.96119829	11.47176003	11.58635627	11.50044317	11.74860516	11.76044531	11.75553009	11.37394576	11.62537994	11.53284006	11.50482336
TMEM163	11.38855521	11.80553759	11.91266589	11.74072383	11.51753758	11.75248689	11.17751274	11.74072383	11.51753758	11.74072383	11.51753758	11.74072383	11.51753758	11.74072383	11.51753758	11.74072383	11.51753758	11.74072383
NME2	11.53275943	12.0473588	11.85667661	11.77487845	11.9737676	11.6770016	11.61116541	10.9210767	11.62647804	11.18610755	11.69547017	11.62566277	11.69417874	11.56256895	11.88349212	11.3882111	11.8002111	11.91314046
STK17B	11.12599445	11.09967094	11.41439717	11.64252655	11.19054943	11.6932673	11.59429555	11.07736961	11.30112819	11.28425758	11.91064826	12.12837671	12.14822906	11.63848608	11.68804532	11.8742655	11.61251481	
PRX2	11.45402706	12.10270067	11.69994765	11.45402706	11.93957939	12.23505457	11.79070258	11.29844699	11.08081734	11.17753940	11.30402515	12.016343	12.3771793	11.8560151	11.39089947	11.13262617	11.10034468	11.65659886
CD55	10.9141729	10.94707369	11.30770317	10.87741542	10.97668441	12.15956771	11.65369647	12.85262477	11.61136838	11.69879119	11.300195385	10.95688835	11.60252864	11.29346588	12.89398007	11.6029609	11.5796701	12.84482535
MOGS	11.37059757	11.6464071	11.93834461	11.43778207	11.67834461	11.43778207	11.67834461	11.43778207	11.67834461	11.43778207	11.67834461	11.43778207	11.67834461	11.43778207	11.67834461	11.43778207	11.67834461	11.43778207
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RLSA	11.88323510	11.92425513	11.61041518	11.83406994	11.54994767	12.06683671	11.85259365	11.36178652	11.23277711	11.58518944	11.97794238	11.44098807	11.54281063	11.32247665	11.50960072	11.41548663	11.85882555	
EFNA3	11.41534756	11.58509546	11.09478351	11.09478351	12.08351432	11.21106767	12.47802442	11.47802442	11.21106767	12.47802442	11.47802442	11.21106767	12.47802442	11.47802442	11.21106767	12.47802442	11.47802442	11.21106767
EVH2	11.92692649	12.11808885	12.21005694	11.85057443	12.07355558	11.58328845	11.60921629	11.20344163	11.8357636	11.25129452	11.69502444	11.85214778	11.45723167	11.40424744	11.85851116	11.40041738	11.08148676	11.70001522
SEMA4A	11.77583807	12.00422828	11.91084699	11.0723007	11.0853955	11.73046807	11.58796223	11.37291308	11.69507437	11.50847234	11.58033679	11.70150005	11.31748589	11.6021591	11.13244402	11.00812996	11.13244402	11.00812996
LDHA	10.92971293	11.26780409	11.35211645	11.15325442	11.85581581	11.39771864	11.59142583	11.84841119	11.40273957	11.38211539	12.02470848	11.77156998	12.15075758	11.73024164	12.09667364	11.35135714	11.59596051	12.69786008
DLR12	12.2963926	12.12458568	11.4297068	11.67418895	11.78359922	11.84458667	11.78359922	11.84458667	11.78359922	11.84458667	11.78359922	11.84458667	11.78359922	11.84458667	11.78359922	11.84458667	11.78359922	11.84458667
RPS17	11.88289468	11.8930967	11.68915511	11.68915511	11.72371123	11.52289718	11.20814549	11.6593803	11.0238926	11.69461049	11.71924324	11.17269609	11.062952109	10.59754038	11.04886368	11.10573288	10.97045159	
RMXK	11.63982046	11.59997251	11.23639513	11.83934514	11.73239013	11.75520033	11.528323457	11.21135698	11.71211527	11.51689052	11.71986248	12.0375574	11.57766658	11.72519625	11.17625614	11.6515651	11.2570332	11.37294026
TMCO2	11.84467693	11.9865507	11.58032633	11.87961138	11.94442827	11.87961138	11.94442827	11.87961138	11.94442827	11.87961138	11.94442827	11.87961138	11.94442827	11.87961138	11.94442827	11.87961138	11.94442827	11.87961138
GD2	11.40802586	11.13949461	11.13949461	11.40802586	11.13949461	11.13949461	11.40802586	11.13949461	11.13949461	11.40802586	11.13949461	11.13949461	11.40802586	11.13949461	11.13949461	11.40802586	11.13949461	11.13949461
MT-ND3	11.6821459	11.50655009	11.62401461	11.68330112	11.07456365	11.85823042	11.66066775	11.0529763	11.71374083	11.69735223	11.40395682	11.48616862	11.09892457	11.09508786	11.49750001	11.65748112	11.9818515	11.97401009
ID5	11.0762544	11.12414784	11.39532446	11.70596801	11.18271199	11.38724317	11.76476766	11.67933824	11.89946498	11.28445175	12.05921709	11.81529766	11.8103969	11.54709092	11.78647341	11.85257168	11.32605898	11.6101917
ZNF331	10.9496976	10.50317673	10.9496976	10.50317673	10.9496976	10.50317673	10.9496976	10.50317673	10.9496976	10.50317673	10.9496976	10.50317673	10.9496976	10.50317673	10.9496976	10.50317673	10.9496976	10.50317673
ATPS62	11.78471283	12.29084664	11.8035344	11.76160949	11.93959664	11.60182695	11.50071169	11.06697836	11.95341513	11.53085486	11.72206281	11.53236769	11.60582932	10.80381592	11.23136656	10.7602388	11.34376456	
RIA1A	11.48057345	11.69637738	11.27100726	11.74216097	11.77956544	11.56598954	11.91065221	11.54182945	11.39349417	11.43787379	11.6198839	11.95905071	11.62364756	11.56731383	11.5596013	11.41899286	11.6253167	
TFG	11.66045026	11.59892599	11.26181041	11.00583638	11.62351516	11.60218298	11.49053421	11.03661375	11.64019014	11.11011223	11.55351	12.03544549	11.61975246	11.94279985	11.04952344	11.57684724	11.7420507	11.44763804
TMEM163	11.38855521	11.80553759	11.91266589	11.74072383	11.51753758	11.75248689	11.17751274	11.74072383	11.51753758	11.74072383	11.51753758	11.74072383	11.51753758	11.74072383	11.51753758	11.74072383	11.51753758	11.74072383
ATPGK1	11.49897580	11.76944322	11.76944322	11.49897580	11.76944322	11.76944322	11.49897580	11.76944322	11.76944322	11.49897580	11.76944322	11.76944322	11.49897580	11.76944322	11.76944322	11.49897580	11.76944322	11.76944322
ERN1	11.44713082	11.46671344	11.46811004	11.24113289	11.14684445	12.43473937	11.44547214	12.01279701	11.32426656	11.35805277	12.13516759	11.46880702	12.54841029	12.12057001	11.32558489	11.65039286	11.7025542	11.6398149
RPL31	11.99870304	11.88757879	11.90214716	11.5388875	11.33347014	11.56799083	11.33497128	11.125371432	11.34971285	11.27491285	12.12574889	11.64736476	11.93553281	11.09857219	11.93103918	11.57509718	11.41180963	11.47848178
SEC13	11.64609544	11.73500114	11.64038899	11.50456748	11.56282721	11.82052242	11.62265523	11.28708515	11.50012211	11.28840891	11.51754947	11.54171441	11.8487584	11.86943486	11.37179195	11.49387161	11.37752116	11.5923862
CUTA	11.73511263	11.76887353	11.41632825	11.76887353	11.41632825	11.76887353	11.41632825	11.76887353	11.41632825	11.76887353	11.41632825	11.76887353	11.41632825	11.76887353	11.41632825	11.76887353	11.41632825	11.76887353
SEC22B	11.64275302	11.32406622	11.55147233	11.64275302	11.32406622	11.55147233	11.64275302	11.32406622	11.55147233	11.64275302	11.32406622	11.55147233	11.64275302	11.32406622	11.55147233	11.64275302	11.32406622	11.55147233
OMP2	11.46340378	11.95563832	11.73766012	11.46340378	11.95563832	11.73766012	11.46340378	11.95563832	11.73766012	11.46340378	11.95563832	11.73766012	11.46340378	11.95563832	11.73766012	11.46340378	11.95563832	11.73766012
RPL10A	11.78094246	11.24914552	12.07507737	11.78596924	11.48256794	11.84255842	11.74071893	11.9449338	11.77736566	12.23475302	11.62043954	11.94783333	11.87711726	11.42328968	11.34486809	11.4486809	11.34486809	11.4486809
KDEL1	11.60657993	11.69254245	11.57231732	11.75170852	11.65438383	11.97864899	11.55596761	11.47316164	11.61084628	11.34460298	11.85691851	11.26717386	11.52357988	11.9547836	11.06832364	11.54268282	11.14529506	11.10235895
NRA42	10.48648216	10.55421921	10.73909102	10.9262394	10.9748614	11.87762087	11.58861733	11.76476664	12.48315432	11.2073282	11.91175647	11.47836329	11.18393064	11.05753687	11.2675352	11.24652371	11.49292513	
PRMT1	11.61730672	12.02894847	12.0210912	11.47335936	11.79821609	12.12146648	11.61081751	10.91990688	11.37927205	11.09585449	11.19779575	11.85232997	11.953385	11.85156687	11.91034169	11.37721364	11.80793516	11.28033558
NEU1	11.66181536	11.54949475	11.52298871	11.79643393	11.74270192	11.47674365	11.9455807	11.46808374	11.68570018	11.32181774	11.69961426	11.57191616	11.57246786	11.0622075	11.53003239	11.44862838	11.52039462	11.45248009
RASGRP3	11.12739762	11.14772783	11.57621251	11.17196275	11.14772783	11.1196921	11.08485764	11.86097893	11.20247967	11.77978301	11.30947502	11.09822459	11.17106122	11.10761222	11.12000585	11.99542931	11.73129254	
ZBTB58	11.71692743	11.38111063	11.84600995	11.06936741	11.44411812	11.3262101	11.37782108	11.08654547	11.81760986	1								

RUBCN	11.38896956	11.16910077	11.49707877	11.44547736	11.80541892	11.17802149	11.809025289	11.40029339	11.36787408	11.41717841	11.58298553	11.21386685	11.56937167	11.76979021	12.03073675	11.38389331	11.42237413	11.71065623
TMEMZ48	11.25041628	11.56745804	11.43266172	11.65488937	11.64617124	11.5292079	11.18964237	11.70541006	11.28961221	11.57448015	11.31196665	11.79865685	11.71616704	11.43843549	11.38250732	11.30091249	11.43494958	
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RNF10	11.23448477	11.56495612	11.65237394	11.38547842	11.51981464	11.38131938	11.24105041	11.53165851	11.24593594	11.34674714	11.3705456	11.43688688	11.098233017	11.55740236	11.8883439	11.41587943	11.56660275	11.57307063
ACDZ	11.48574497	11.80965922	11.71538796	11.71054732	11.3974544	11.3974544	11.43647652	11.37819758	11.43647652	11.73805725	11.43337897	11.43814801	11.07864676	11.58471592	11.58471592	11.43179282	11.39144466	
CRNEB12	11.62487059	11.62487059	11.62487059	11.62487059	11.62487059	11.62487059	11.62487059	11.62487059	11.62487059	11.62487059	11.62487059	11.62487059	11.62487059	11.62487059	11.62487059	11.62487059	11.62487059	11.62487059
EF252	11.47307829	11.37651524	11.73113501	11.52436712	11.83595245	11.58899714	11.5251593	11.71251924	11.048611793	11.80761927	11.90885998	11.37759408	11.82620428	11.88928087	11.75365929	11.05662509	11.82287898	11.02301904
VAPA	11.70146045	11.71319047	11.47765843	11.73119047	11.45006097	11.86978438	11.76167375	11.39086667	11.01410598	11.22256888	11.36921586	11.84341528	11.87397939	11.98000455	11.22627207	11.94589317	11.30421186	
TCZ5	11.22649357	11.64395787	11.45755612	11.1772882	11.11662928	11.49757801	11.37059632	11.73167875	11.28054394	11.68219183	11.18644661	11.45278084	11.5066093	11.38250594	11.85818631	11.35178239	11.8267605	11.38754675
PIA2	11.28649018	11.61054846	11.71385797	11.31045846	11.71385797	11.31045846	11.71385797	11.31045846	11.71385797	11.31045846	11.71385797	11.31045846	11.71385797	11.31045846	11.71385797	11.31045846	11.71385797	11.31045846
TCF3	11.02935205	11.02935205	11.02935205	11.02935205	11.02935205	11.02935205	11.02935205	11.02935205	11.02935205	11.02935205	11.02935205	11.02935205	11.02935205	11.02935205	11.02935205	11.02935205	11.02935205	11.02935205
COF21	11.29630808	11.26041947	11.78245198	11.41370971	11.83297232	11.7249177	11.58247994	11.1058776	11.7000004	11.37497742	11.50713645	11.41845892	11.28454444	11.55593108	11.1183751	11.47687685	11.38802707	11.03258944
DTN1	11.48471527	11.74419889	11.51056642	11.61854903	11.61854903	11.61854903	11.61854903	11.61854903	11.61854903	11.61854903	11.61854903	11.61854903	11.61854903	11.61854903	11.61854903	11.61854903	11.61854903	11.61854903
PARM1	11.0073055	11.09721907	11.69325364	11.9709494	11.43221343	11.58273176	11.37116009	11.37617911	11.65931418	11.6359129	11.47306183	11.17004256	11.24993753	11.37188096	11.48919286	11.39564819	11.36485503	11.84353871
RBM3	11.70149111	11.74288165	11.47288165	11.88156177	11.43629252	11.93958963	11.62159326	11.00718448	11.39105433	11.09346706	11.45592833	11.28061525	11.79382691	11.47575569	11.07301723	11.12024113	11.04881937	11.07949919
HRRNPM	11.61172144	11.5947593	11.40866437	11.87022605	11.63897201	11.40199486	11.7017485	11.30229745	11.70767218	11.2914268	11.0397176	11.70191141	11.09389478	11.9108195	11.39228513	11.41195124	11.39031115	11.53651889
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RAP1B	11.20928069	11.09716533	11.14084246	11.20928069	11.09716533	11.14084246	11.20928069	11.09716533	11.14084246	11.20928069	11.09716533	11.14084246	11.20928069	11.09716533	11.14084246	11.20928069	11.09716533	11.14084246
HPB1	11.03621702	11.57106488	11.48032086	11.48032086	11.57106488	11.48032086	11.57106488	11.48032086	11.57106488	11.48032086	11.57106488	11.48032086	11.57106488	11.48032086	11.57106488	11.48032086	11.57106488	11.48032086
JAK1	11.60074403	11.46173027	11.70865463	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313
CTT1	11.02368227	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597
SERINC1	11.77487404	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313
PLP2	11.40495303	11.68633505	11.65822459	11.82712201	11.51272681	11.7174334	11.3869713	11.41291706	11.50062022	11.08989698	11.64659792	11.11873909	11.27961395	11.7953071	11.14277414	11.15169515	11.8892897	11.90105365
GTFA3	11.38334797	11.83547257	11.90423677	11.61596095	11.98483466	11.38836835	11.57349117	11.2236545	11.23014829	11.40337486	11.45437646	11.6668482	11.61107334	11.1483894	11.97643124	11.1113131	11.90637296	11.90637296
ARID5B	9.548695456	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912
XCRC5	11.06678056	11.61764825	11.0581088	11.06678056	11.61764825	11.0581088	11.06678056	11.61764825	11.0581088	11.06678056	11.61764825	11.0581088	11.06678056	11.61764825	11.0581088	11.06678056	11.61764825	11.0581088
SPAG4	11.20171895	11.08168123	11.91557237	11.91557237	11.08168123	11.91557237	11.08168123	11.91557237	11.08168123	11.91557237	11.08168123	11.91557237	11.08168123	11.91557237	11.08168123	11.91557237	11.08168123	11.91557237
JAK1	11.60074403	11.46173027	11.70865463	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313
CTT1	11.02368227	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597
SERINC1	11.77487404	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313
PLP2	11.40495303	11.68633505	11.65822459	11.82712201	11.51272681	11.7174334	11.3869713	11.41291706	11.50062022	11.08989698	11.64659792	11.11873909	11.27961395	11.7953071	11.14277414	11.15169515	11.8892897	11.90105365
GTFA3	11.38334797	11.83547257	11.90423677	11.61596095	11.98483466	11.38836835	11.57349117	11.2236545	11.23014829	11.40337486	11.45437646	11.6668482	11.61107334	11.1483894	11.97643124	11.1113131	11.90637296	11.90637296
ARID5B	9.548695456	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912
XCRC5	11.06678056	11.61764825	11.0581088	11.06678056	11.61764825	11.0581088	11.06678056	11.61764825	11.0581088	11.06678056	11.61764825	11.0581088	11.06678056	11.61764825	11.0581088	11.06678056	11.61764825	11.0581088
SPAG4	11.20171895	11.08168123	11.91557237	11.91557237	11.08168123	11.91557237	11.08168123	11.91557237	11.08168123	11.91557237	11.08168123	11.91557237	11.08168123	11.91557237	11.08168123	11.91557237	11.08168123	11.91557237
JAK1	11.60074403	11.46173027	11.70865463	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313	11.45452073	11.58445313
CTT1	11.02368227	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597	11.53667597
SERINC1	11.77487404	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313	11.49946223	11.36497313
PLP2	11.40495303	11.68633505	11.65822459	11.82712201	11.51272681	11.7174334	11.3869713	11.41291706	11.50062022	11.08989698	11.64659792	11.11873909	11.27961395	11.7953071	11.14277414	11.15169515	11.8892897	11.90105365
GTFA3	11.38334797	11.83547257	11.90423677	11.61596095	11.98483466	11.38836835	11.57349117	11.2236545	11.23014829	11.40337486	11.45437646	11.6668482	11.61107334	11.1483894	11.97643124	11.1113131	11.90637296	11.90637296
ARID5B	9.548695456	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912	11.3706912
XCRC5	11.06678056	11.61764825	11.0581088	11.06678056	11.61764825	11.0581088	11.06678056	11.61764825	11.0581088	11.0								

TM95F1	11.14197824	11.30540749	11.64976386	10.99121643	11.35881249	11.63661645	11.58795642	11.2252702	11.44946175	10.90898691	11.42299329	11.29782727	11.67680432	10.93324541	11.00671286	11.22727257	10.915694	10.89135009
USP48	10.19286	10.04592476	10.80025011	11.28828237	11.17783655	11.21242665	11.01252326	11.18211786	11.49207349	11.30037894	11.23671574	10.97412458	11.4438796	11.66351111	11.44764661	11.42340097	11.38518474	11.22806859
MDH1	11.28713244	11.42344879	11.40891095	11.67364039	11.722782039	11.07700971	11.40543657	10.68920772	11.03068916	10.94608267	10.97888096	11.94857309	11.95106755	11.951765	10.72440099	11.10449319	11.14381349	11.12806859
YVH48	11.12091729	11.09155765	11.28405466	11.13687215	11.57955801	11.3663298	11.16309614	11.17371865	11.2738564	11.2751661	11.23649533	10.96272918	11.93985685	11.40283146	10.84572398	11.29080741	10.96545731	11.35928797
AP06FC2C	10.79866266	11.51109407	11.30126551	11.19714159	11.20468452	11.09841884	11.15537359	11.23519311	11.25137159	11.23519311	11.22791404	10.94803241	11.41854664	11.1326755	11.21674604	11.09789672	11.09579963	11.17018531
TERF1P	11.27448326	11.27448326	11.20044294	11.15427532	11.54221613	11.46843115	11.09896719	11.23068413	11.18273751	11.23068413	11.18273751	11.65858022	11.7878655	11.55051126	10.95654255	11.23437165	11.09680747	11.8812165
PSM85	11.27046332	11.42045199	11.56793581	11.29446575	11.40685311	11.82806311	11.53361785	10.88427959	11.06913574	10.91332413	11.02925811	11.46516557	11.81305659	11.2327852	10.6583882	10.94319049	11.0740127	11.14762741
AKAP2	11.26663231	11.39487926	11.44590275	11.20493959	11.72453181	11.00134068	10.46609178	11.00801958	11.14254474	11.31062251	11.43639967	10.48991884	11.03437136	11.05639194	11.15765266	11.118913804	10.68557513	11.2806859
ACTR3	10.5420068	11.0481204	11.1941622	11.33300952	11.30984762	11.26731019	11.44733405	11.22613307	11.61525405	11.14684443	11.2912752	11.35224601	11.07789256	11.32944756	11.16232481	11.15365865	11.11703261	10.9941392
FAM69A	11.19792068	11.31190263	11.61977755	11.61977755	11.54468614	11.16485281	11.26386828	10.89121495	11.24588413	11.17507581	11.24240501	11.87820513	11.32780543	11.21678374	11.13808054	11.39933021	11.12951459	11.12852453
SDHD	11.20079471	11.24061615	11.40616749	11.24061615	11.34516877	11.56727466	10.51188898	10.99930797	10.79072133	10.95880286	11.64701749	11.87185167	11.56024638	10.9787563	11.01004757	10.74445356	11.58701116	11.11004757
COX5A	10.97850839	11.35624348	11.29962506	11.25697135	11.58607944	11.51686678	11.04428047	11.07320938	11.39964332	10.88402824	11.05198216	11.21974846	11.09519236	11.41617156	10.63360664	11.15344723	10.86974162	11.33128545
E15A	12.74736833	10.82472113	12.06941126	11.90614376	10.96405096	11.15736756	11.14835476	11.21431381	11.34366872	11.61807266	10.65373633	10.43866868	10.78144405	11.31920888	11.7675016	10.87638273		
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ZFAND5	11.10959511	10.19091673	11.13719607	11.09091594	11.06456642	11.4807387	11.5141094	11.16522423	11.26019032	11.2910691	11.50645449	10.74431997	11.52634776	11.1618315	11.24310561	11.29178591	11.3550006	11.38209202
SDMT1	11.74211728	11.82496901	11.2921507	11.0309260	11.73011786	11.52392688	11.32179533	10.55727314	11.11617556	10.61383339	11.3166158	11.39523402	11.30626199	11.48448291	10.82527449	10.82759889	10.67670959	10.9705436
PTP4A1	10.79857822	10.87780681	10.24864499	10.87780681	11.70214434	11.33687551	11.51479285	11.68976617	11.70847949	11.06344869	12.07444749	10.57276948	11.61895815	10.96047203	11.3326823	11.63212102	11.12251669	11.07970883
ATP5J	11.24523178	11.41093058	11.55812228	11.15348775	11.58779259	11.46063846	11.2140144	10.57379259	10.85389231	10.68327862	10.8754478	11.78938545	11.60615948	11.5616742	10.56733808	10.73968958	10.7536946	11.3191177
RR1	11.81291536	11.90640494	11.76623295	11.60853225	11.56971545	11.2404036	11.22932628	10.94593451	11.75279364	11.2258376	11.2258376	11.39866315	11.52805284	10.96768155	10.8561913	10.71680035	11.34667344	11.34667344
ATPH1	11.6199348	11.73550666	11.21751793	11.21752956	11.39758906	11.52051847	11.26467118	10.88501099	10.6164255	10.9026132	11.43278753	11.51220184	11.23030994	10.7998398	10.98468317	11.03386314	11.40959832	11.40959832
TXV	11.04191207	11.52380664	11.37624731	11.19226347	11.9330805	11.25439559	10.73795124	10.86973588	10.64897049	11.15505277	11.5896256	11.4598660	11.34893017	11.0922665	11.0922665	10.9690704	10.6619404	11.8174811
SRP10B	9.607418255	9.965879923	9.385118437	9.57656533	9.29758122	11.06842054	11.2463798	11.1139957	11.35958983	10.36847842	11.09392086	11.03816873	11.19622665	11.80408199	11.46881544	11.18468859	11.18468859	11.18468859
GALNT2	10.74549236	11.09816306	11.23348202	11.44022579	11.2833127	11.2242583	11.04875344	11.63861595	11.11415564	11.61761994	11.64557034	10.9029062	10.8270969	11.09029286	11.53904205	11.03896509	11.50710484	11.21606262
H3FA	11.36855807	11.41564133	11.39902092	11.36855807	11.28832457	11.3389214	11.17373725	11.53270625	11.40031353	11.8699337	11.67634654	10.89260056	11.15965027	10.97852538	11.05209811	11.17170574	11.11829083	11.09647345
NDUF41A3	11.43796558	11.26861356	11.58780047	11.26861356	11.74080871	11.34562633	10.92030215	10.94102215	10.9836487	11.26652104	11.29875296	11.38020742	10.6272771	10.8775344	10.73800213	11.06315389	11.06315389	11.06315389
CPN5E	11.02797744	11.48477655	11.44151058	11.62334231	11.20667732	11.4042044	11.39234295	10.93452319	11.03979784	10.96325124	11.51725927	11.59707319	11.57657394	10.80207462	10.5995154	10.69290374	11.57328289	11.57328289
DDX17	10.95463206	10.98314799	11.24944709	10.94740888	11.18208103	11.70418002	11.26717478	11.40496282	11.14423968	11.39087984	10.955239	11.02728824	11.33044271	11.2214104	11.47961086	11.20481907	11.49471952	10.89143178
ATP10B	11.28523609	11.72380258	11.60953359	11.60953359	11.59749064	11.46420929	11.46420929	11.24598002	11.24598002	11.45927247	11.45927247	11.45927247	11.45927247	11.45927247	11.45927247	11.45927247	11.45927247	11.45927247
NP2	11.51600691	11.0557821	11.06805023	11.0557821	11.06805023	11.06805023	11.06805023	11.06805023	11.06805023	11.06805023	11.06805023	11.06805023	11.06805023	11.06805023	11.06805023	11.06805023	11.06805023	11.06805023
UBA5	11.55501585	11.78197688	11.82784235	11.32321081	11.46443665	11.48793932	11.23476259	10.8383532	11.28253139	10.5948611	11.23002559	11.1794326	11.18912927	11.02156981	10.8471238	10.8687213	10.51424361	11.63755242
NOB82	10.8817021	11.0342839	11.62038464	11.12478478	11.21931582	11.64928889	11.11986202	11.03140259	10.93106064	11.87145028	11.76669042	11.59428572	11.49147463	11.16201845	11.19982417	11.13171675	11.13171675	11.13171675
SRP68	11.41065015	10.70981236	11.32824566	11.67411997	11.45394301	10.93756463	11.255786	11.02661373	11.4210811	11.15278682	11.04149041	11.39751983	11.01374854	11.76403809	10.97494473	11.31254219	10.92314714	10.94331911
UBA5	11.5935173	11.09929225	11.5490333	11.11800856	11.51068182	11.25413087	11.22091312	11.01671264	11.07573888	10.92352379	11.024358509	11.24528027	11.33194709	11.10744164	11.05420676	11.05420676	11.05420676	11.05420676
DYNN1L	11.03770614	11.18781135	11.72756418	11.45710557	11.66400555	11.41987674	11.5132895	10.93135828	11.29719459	10.85748127	11.21586278	11.65934556	11.1349354	11.21245041	10.69632464	11.15387546	11.03024668	10.8551586
MARCKS	11.14552371	11.18652379	11.18652379	11.18652379	11.18652379	11.18652379	11.18652379	11.18652379	11.18652379	11.18652379	11.18652379	11.18652379	11.18652379	11.18652379	11.18652379	11.18652379	11.18652379	11.18652379
COX5B	10.57376286	10.9000614	9.658906564	9.658906564	9.658906564	9.658906564	9.658906564	9.658906564	9.658906564	9.658906564	9.658906564	9.658906564	9.658906564	9.658906564	9.658906564	9.658906564	9.658906564	9.658906564
IARS	10.80326834	10.09518885	10.79077512	11.24750618	11.17625574	10.55107792	10.05588659	11.23892821	10.3574728	11.43270384	10.79935891	11.22020658	10.91393453	11.63750522	11.03975355	11.2540873	11.5219678	11.57555142
PRDX5	11.1651018	11.34241495	11.22780479	11.122780479	11.46529612	11.35820834	11.05820834	11.02937925	10.87410123	10.82547335	11.12489576	11.29478519	11.58974664	11.60019417	11.05812952	11.0167955	11.0167955	11.0167955
KHDC2	11.2659999	11.31892886	11.56145973	11.32853008	11.09811253	10.79066685	10.56230083	11.27732386	11.13245461	11.1872577	11.22466889	11.49707905	11.10948885	10.7974915	11.20450887	11.02193947	11.20450887	11.02193947
ATP5E	11.03259665	11.1889968	11.19435327	11.01990764	11.19435327	11.19435327	11.19435327	11.19435327	11.19435327	11.19435327	11.19435327	11.19435327	11.19435327	11.19435327	11.19435327	11.19435327	11.19435327	11.19435327
PIPA	11.06105405	11.57646566	11.39671385	11.38874233	11.04901784	11.46658003	11.10100715	11.18633899	11.51393313	11.48319957	10.84129997	11.3451209	10.7996384	11.19132479	10.8805762	11.41726572	10.8805762	11.41726572
SLC25A3	11.45513579	11.32313185	10.95839437	10.95839437	11.31680742	11.62533978	11											

CCT8	10.99399281	11.56652307	11.16639681	11.55211474	11.87084801	11.3659492	10.87640434	11.07367415	11.43653644	10.98397177	11.17905764	11.64579441	10.72485491	10.70090021	10.99460891	11.40817192	10.99952132	10.9634299
PPP1R10	11.68934311	11.27900471	11.32266885	11.16814254	11.21701085	10.92345717	11.80134921	11.30405111	11.07922004	11.307492	11.26621465	10.75240457	10.60304345	11.01308616	11.41623301	11.15649975	11.18339117	10.5798903
LRC59	11.33994904	11.15549661	11.0725477	11.38940362	11.19410078	11.24611389	11.04932602	11.13328022	11.16566328	11.05708379	11.25652873	10.98736556	10.70815767	11.14080106	11.10397827	11.17552688	10.95455881	10.99385706
HMCC5	10.66454182	10.50408415	10.4680905	11.10399598	10.82144175	11.02724604	11.12724604	11.56682187	11.51189189	11.03335618	11.42808576	10.60366731	11.85337432	10.70480473	11.70127177	11.51152578	10.79994785	11.57445329
ALKH5	11.57066243	11.66545042	11.08342043	11.29740895	11.04309771	11.41642994	11.04309771	11.22363654	11.02840907	11.03923654	11.30492654	11.14623194	11.29420765	11.09811426	10.74178458	10.98114426	10.74178458	11.03323194
HMGN1	11.35590005	11.41232579	11.46809039	11.02257592	11.2527592	11.29464214	10.96482182	11.05529291	10.96345717	10.86626238	10.96247298	11.30928363	11.57717931	11.04423271	11.00219602	11.21602620	10.97438668	11.01351162
CLINT1	10.60433733	10.6493988	11.46443804	11.48418724	11.2891407	11.29534046	11.22854549	11.04828171	11.52409647	11.17995584	11.08665321	11.03066676	10.52214461	10.78464898	11.13269634	11.36381666	11.08224488	10.98829392
EJF31	11.12568027	11.69460457	11.35698275	11.35698275	11.9312166	11.19263022	11.10780843	11.10780843	11.10780843	11.06788073	11.04775016	11.09837347	11.25505475	11.1173237	11.63022338	10.90249096	11.04203785	11.03038384
PIM3	10.42668589	9.823748234	10.2953343	9.825776021	10.11353495	11.87338437	10.99748875	11.80849014	11.44072645	10.85017268	11.95834405	10.03843641	11.69246199	11.21554715	11.8603183	11.65880913	11.74066134	11.59550187
ASB2	11.06418635	11.12575715	11.16885117	11.35862958	11.13582958	11.35820867	11.1077186	11.35820867	11.1077186	11.35820867	11.35820867	11.35820867	11.35820867	11.35820867	11.35820867	11.35820867	11.35820867	11.35820867
FAM107B	10.52576642	10.74942147	10.25576642	10.74942147	10.8381611	11.06620125	10.88847584	11.80079784	11.06282775	10.12098162	12.19275644	10.91396235	11.1224005	11.14900093	11.30910015	11.55059094	11.35291361	11.99485838
TMEM259	10.39198789	10.76800777	10.76800777	10.76800777	10.76800777	10.76800777	10.76800777	11.32942946	11.42028467	11.2428938	10.9655179	10.8517747	11.04668868	11.55223644	11.59921287	11.0712551	11.47771474	11.35899118
TAPB1	10.95984592	11.75725034	10.68904087	11.33143424	11.38772397	11.52838606	11.0171974	11.03729218	10.88027948	11.62385179	11.7559433	11.88711014	11.03559823	11.09947522	11.08679145	10.84167852		
HP1B3	11.04925607	10.14667668	11.44033951	11.3490759	11.33665169	11.58610032	10.43278576	10.98236271	10.87349152	11.46528723	11.16508313	11.01390095	10.82792883	11.03166203	11.48201474	11.05046623	11.36197394	11.15114457
TMEM1123	10.68928386	10.74672081	11.70983496	11.39613728	11.0675653	11.6231689	11.52855525	11.00101627	11.19900823	11.16443725	11.16826379	11.20648271	10.94147258	10.30439662	10.84519046	11.45351457	11.04663645	11.13335996
TCEA1	10.89593194	11.37531421	11.29627279	11.3608717	11.4993305	11.28120176	10.93126441	10.91512756	11.33162705	11.0044876	11.24289444	11.35396759	10.97728661	11.06773933	10.98716632	11.30804203	11.02875363	11.04263514
HIA-F	11.01841156	10.82929793	10.78437514	11.01841156	11.01841156	11.01841156	11.01841156	10.61637196	11.51922648	10.37831691	11.40596545	11.30270938	11.31062669	11.17676267	11.51639996	11.23175761	10.46281994	11.42013471
ARL1	11.10311109	11.20029441	10.51638717	10.80645672	11.09875215	11.37888727	11.27992411	10.84261443	10.99650695	10.9996101	11.0947391	11.52062969	11.28869892	11.19777452	10.86190324	11.00548696	11.09846842	10.7983301
ADAR	10.86441949	10.64027317	9.693514852	10.69234745	11.07976638	10.69445625	11.11931221	11.66091799	10.84952457	11.59283359	10.95947543	11.21007147	10.21617271	11.17418799	11.94148967	11.13862394	11.2811271	11.13190396
PAPOLA	11.55737346	11.62335604	10.95611103	10.76788072	11.00868044	11.36867174	11.02529502	10.98993030	11.12258472	10.86707115	11.15193908	11.06381811	11.85782389	10.8658192	11.19928456	10.96528128	11.23500885	11.28490549
TCF1	10.47891377	11.10138766	10.84949303	10.79057538	11.0110106	11.27425625	11.08080172	11.54938325	11.18999779	11.35392189	11.00165737	11.48838092	11.58168828	10.68474787	11.58728168	11.15834567	10.87446327	10.84905449
PID3	11.03670351	11.21031982	11.52175278	10.95091128	11.45899637	11.29927252	11.0436301	10.84732072	11.70730131	11.11209512	11.54720175	11.86148896	11.93651283	11.1365739	10.7204161	10.70353218	11.08085466	
SIAH2	10.54153485	10.66826736	10.23319519	10.32687023	10.60372259	11.7930749	10.9465221	11.71925296	11.5291128	11.00677201	11.19742834	10.71108628	11.56368749	11.1727939	11.62732226	11.65193684	10.75798254	11.42088189
LITAF	11.27195377	11.59854428	10.9669079	11.16187621	11.10259077	11.0552668	11.12590017	11.11392495	11.90401222	11.06265593	11.29922074	10.39817834	11.80638985	11.08661769	11.88736321	11.63494984	11.50210723	11.69614851
ANXA7	10.98114522	11.43726212	11.6341588	11.37541133	11.7719826	11.1003447	11.02712613	11.41552485	10.80563271	11.14631859	10.91109959	11.60672332	11.40480633	10.75391867	11.07453883	10.72847574	10.84471004	
ANAPC16	11.17159829	11.07048814	11.55928525	11.19877162	11.30980231	11.2215726	11.39426548	11.4046338	11.05964911	11.59858877	11.9731532	11.41207644	11.14948651	11.0950237	10.75208768	10.90252244	10.35627979	10.86272145
CSNK1A1	10.87445846	11.45571657	10.98773706	11.2389029	10.99031526	11.08951151	10.9157378	10.97349578	11.07734766	10.99284714	11.16882602	11.36537356	11.1924491	11.13895266	11.04014949	11.3096332	10.8747653	11.30802249
SNRPB1	11.39213121	11.41693939	11.39213121	11.41693939	11.39213121	11.41693939	11.39213121	11.39213121	11.41693939	11.39213121	11.39213121	11.39213121	11.39213121	11.39213121	11.39213121	11.39213121	11.39213121	11.39213121
GNVC	11.15257274	11.69785958	10.79047027	11.29463651	11.22863052	11.56087804	11.03721874	11.41340097	11.86171559	11.14552543	11.01753705	11.2144937	11.21544658	11.01406059	11.64512485	10.54027458		
FUCA2	11.19313633	11.0515548	11.22532123	11.24925564	11.04519104	11.40448037	11.43050818	11.10925046	10.84427713	10.83867367	10.94386813	11.19282611	11.45116305	11.63526567	10.9932201	10.72175403	10.51849546	11.04311773
GARS	11.21919923	11.19246007	10.99228053	11.19565395	11.05970941	11.1255707	10.9709594	11.05709441	11.32881174	11.37979204	11.05965631	11.0976651	10.66509205	10.99268096	10.94315314	11.22982837	10.7337508	11.05575714
TECP1	11.39373264	11.32716892	11.07811976	11.46238521	11.17163266	11.22479161	11.17163266	11.0499453	10.97076736	10.8897178	11.20842058	11.35307598	11.07531189	10.74274421	11.89505409	10.77994562	10.85533806	11.6330315
TIFA	11.45041167	11.0712523	11.33889937	11.04938084	11.63611326	11.40136576	11.10080035	11.58811476	11.41200154	10.66617508	11.95613637	11.27359279	11.35806101	11.9366324	11.51201914	11.16643806	10.20838971	11.1573706
SUN2	11.13654364	11.20126847	10.79060537	11.21396379	10.91440459	10.52848647	10.68716331	11.27341125	11.13532835	11.09310222	10.96404325	10.90285394	9.281169172	11.10547675	11.48887623	11.04966612	11.12235098	10.7412015
SNRPB1	11.39213121	11.41693939	11.39213121	11.41693939	11.39213121	11.41693939	11.39213121	11.39213121	11.41693939	11.39213121	11.39213121	11.39213121	11.39213121	11.39213121	11.39213121	11.39213121	11.39213121	11.39213121
RHB1	10.80530124	11.69785958	10.79047027	11.29463651	11.22863052	11.56087804	11.03721874	11.41340097	11.86171559	11.14552543	11.01753705	11.2144937	11.21544658	11.01406059	11.64512485	10.54027458		
PHPT1	11.00018806	11.23428633	11.33048658	10.77127759	11.3783584	11.0516944	11.16545723	10.89832128	10.78523039	10.67095281	10.881623	11.51659343	11.2436571	11.61077727	10.88699872	10.85018611	10.84030586	11.13906682
COP5	11.01462339	11.07725529	11.0559965	11.17785478	11.15539662	11.7604139	11.6400419	11.10856823	10.65923172	10.92525737	11.40540011	11.57430554	11.54117208	10.93378887	10.96395756	10.96654143	10.95045393	
RS1D1	11.62982977	11.12026645	11.40680264	11.0645388	10.90413527	11.06315655	11.06773127	10.36316293	11.12799242	10.4620408	10.84937614	11.61482052	11.76917162	11.35809799	10.45787811	11.08276125	10.26935386	11.03176233
RBM33	9.79997017	10.36961613	10.62115	9.46097233	11.06211524	11.06914612	10.84635857	11.148169813	11.1716498	11.59632668	10.36918101	11.37392071	10.49565144	11.57828882	10.97845815	11.13460412	11.10317619	
NRB1	11.3940223	10.93285267	11.41226373	11.35298674	10.7050975	10.95507943	11.14201901	10.94818945	11.03733865	11.08071315	11.59063275	11.14367765	10.80891784	11.74674097	10.9553714	11.23085881	11.12648319	11.02206266
CLD	10.92149603	11.04980321	10.64757165	11.05954909	10.82784861	11.23552974	11.24888776	11.64957139	11.05918114	10.98584556	11.58472537	11.32591862	10.90985					

PKGI	10.70612781	11.36829758	10.98561398	11.17267208	11.09218664	11.24822226	11.12890076	11.0709837	10.86591302	10.96238112	10.97672657	10.88895162	11.6026823	10.38284823	10.84283854	10.94466267	10.81630214	11.01018483
SIAMF1	10.62599434	11.10338656	11.01290371	11.01290371	10.43003701	11.96002291	11.06226277	11.32755032	11.15705863	11.75815377	9.79443662	11.82616594	10.86590753	11.78786683	10.67264258	10.68296790	10.92475905	10.92475905
SCARB2	11.13642884	10.89137257	10.88521203	11.12442891	10.58095253	10.56318425	11.23106683	11.1514274	11.34416548	11.62723584	10.63257694	11.05360748	10.72592821	10.72402709	10.91675107	10.72034567	10.72034567	10.72034567
GF2F1	10.76369442	10.07306524	11.16047474	10.89147314	10.40089796	10.28665295	10.65580457	11.05171717	11.20519613	11.43072608	11.22493986	10.72459898	9.598387447	10.56683137	11.33276139	11.06446783	11.05219181	11.83072608
TBL1R1	10.49323207	10.48545044	10.95752389	10.7885452	10.36732344	10.95074327	11.32666622	10.98014668	11.03651052	10.99146624	11.2931381	9.94737165	10.96523233	11.45902471	11.03691556	11.55843052	11.03691556	11.03691556
CKorf1	10.36464359	10.64690974	10.64690974	10.74952469	10.74952469	10.74952469	10.74952469	10.74952469	10.74952469	10.74952469	10.74952469	10.74952469	10.74952469	10.74952469	10.74952469	10.74952469	10.74952469	10.74952469
PLEK	10.75758611	10.9840899	11.2570712	10.82178704	10.96054484	11.3789904	10.58875391	10.4410224	11.14433289	10.7433397	11.45215483	10.98021328	11.26381419	9.45130643	10.58065411	11.16653992	10.58684527	11.30248858
EF4A1	10.76104556	10.63915609	10.76334156	10.29063097	10.96054484	10.7801008	11.2521119	11.67400188	11.05958598	11.3080966	11.13235746	10.27554543	11.04469482	10.82509645	11.5737376	10.9604815	11.53558363	10.9718195
OKR1	10.73452747	10.73171717	10.91626031	10.3755313	11.19095841	10.86045115	11.16451292	10.80905598	11.09873142	10.51637697	11.06746075	10.5694679	11.06744131	11.56206524	11.1824558	11.23921249	11.1016348	10.77845267
PTPN6	11.3017237	11.3831621	11.3575952	11.36632492	11.05295204	11.25697637	10.68252833	10.91985689	11.0688626	10.51371214	10.89541768	10.9469996	11.02223915	11.08713321	9.90458655	10.51453254	10.48549313	11.08178909
BTN3A1	11.61233786	10.40665836	10.41484481	10.19991638	10.73470755	10.94113573	11.52077448	10.665153	11.25453098	11.19014313	10.98518094	11.34549614	10.83979414	10.87745335	10.60542493	11.36668389	10.9017279	10.9017279
WFS1	10.07756774	10.43768362	11.09684139	11.4511809	10.84537628	11.62302968	10.65546013	11.1182371	10.99292381	11.13193347	10.65882564	10.24955405	11.51170351	10.95612717	11.28644324	10.77289727	10.60186504	10.60186504
NDUFB11	10.95723797	11.18580039	10.90076394	11.2584684	11.29575677	11.10714911	10.58103719	10.5062486	10.96794736	11.20353361	10.90722527	11.94436607	10.1354829	10.3771197	10.29138077	10.61360383	10.61360383	10.61360383
DPAK21	11.15461005	10.46125121	11.23125827	10.87348538	11.30578334	11.40953838	11.41144199	10.56367598	10.96451204	10.83104976	10.97911062	11.28601329	10.81282393	11.63775732	10.90789376	10.96068665	10.52854299	10.6957495
ANKRA1P1	11.103417289	11.10294524	11.3413761	10.98805553	11.30674477	11.08558669	11.13540015	10.61004828	10.78496599	10.89098784	10.68798735	11.42303103	11.56505701	11.50104305	10.55286937	10.52200175	10.44294918	11.8712502
EID1	10.94333645	11.21077139	10.97935763	11.19034129	11.23618269	10.74900321	10.94267072	10.48335844	11.00527024	10.28733686	10.71945637	11.14596551	11.06606844	10.97680042	10.38765475	10.97649035	10.51102216	10.47379257
ARHGAP45	11.20700303	10.67435166	11.150251	11.07455265	11.06384971	10.59968748	10.8846787	10.71572887	11.28563069	10.68416346	10.98600381	10.9240097	11.2567375	11.14241029	11.00712254	11.3005587	10.52215033	10.52215033
ARPC3	11.1623343	11.32577215	11.00951933	11.11341228	10.89411693	11.02544273	10.93278669	10.7032964	10.80791311	10.6453367	10.95376686	10.87818279	11.24049521	11.39664809	10.4924916	11.66995893	10.80673936	11.05426098
EF2A	10.10657248	11.16515749	10.90758453	11.2571137	10.98065237	11.117834	10.45106355	10.79593914	11.15331078	10.79288022	10.92834879	10.4569625	10.73861129	11.39062989	10.92043092	11.06690328	10.97880192	10.97880192
TPH5	10.72313362	11.39516817	11.39723799	11.02675772	11.20675772	10.9648386	10.84273734	10.9090571	10.72903678	10.880952	11.05851704	11.0671242	10.64387449	11.07368773	10.9468503	10.36363845	11.39462357	11.39462357
ATP5F1	10.90663534	11.07317541	11.15204156	11.5364727	11.05394699	11.08846116	10.55370932	10.94779721	10.67418925	11.02888648	10.91108359	11.07899546	11.13487333	10.70899546	11.13487333	10.85289115	10.7934491	11.06936552
SLC17A9	11.05712907	10.93137214	11.02681176	10.93811434	10.83595655	10.76756073	11.36313614	10.68734095	11.3972604	10.57553537	11.01893789	11.32263134	10.96188005	11.59114406	10.78982779	11.40724795	11.04724795	11.04724795
G8P2	10.53639421	10.67194261	10.47247616	10.8679711	11.78892953	10.68523223	10.93928777	10.99965737	11.11658409	11.08062568	11.44095481	10.65330359	11.23582442	10.76900509	11.02080047	11.19906833	10.95843874	11.15285962
TM6C	11.13793685	11.54227402	11.24516309	11.51891813	10.62926675	10.65797473	10.25362935	11.46184877	11.01350801	11.41403999	10.89123787	11.20847323	9.70009058	9.42089523	10.44592199	10.78690183	10.64408989	10.64408989
SCFD1	10.89608729	10.79696627	11.18585112	11.07316116	11.20391939	11.12746431	10.59120991	10.98241822	10.89937607	10.8369571	10.79025541	10.96151691	11.41547566	11.5649411	10.90134116	11.160371	10.93120205	10.77289474
RAN	10.58997276	10.94229001	10.72570001	10.62713493	11.67626117	11.3218474	10.99966716	10.9462722	10.4500311	11.1122778	11.12710791	11.14340955	11.14028671	10.85021694	10.78414293	10.69664207	11.15288065	11.15288065
KMT2E	11.05521511	11.16714938	11.16230011	10.7521759	10.45028742	10.70353299	10.63565844	11.22632328	11.0153507	10.87331736	10.82652821	10.6906226	10.3815349	11.00987111	11.36662352	11.26784708	11.05401484	11.06439666
TM6B	10.98292387	11.08532983	11.08532983	11.08532983	11.08532983	11.08532983	11.08532983	11.08532983	11.08532983	11.08532983	11.08532983	11.08532983	11.08532983	11.08532983	11.08532983	11.08532983	11.08532983	11.08532983
UCR9B	10.89629398	11.14125637	11.14125637	11.14125637	11.14125637	11.14125637	11.14125637	11.14125637	11.14125637	11.14125637	11.14125637	11.14125637	11.14125637	11.14125637	11.14125637	11.14125637	11.14125637	11.14125637
NEF2L1	10.85851416	10.86880504	10.84928958	11.26140683	11.16808366	11.1177742	11.27418061	10.80276917	11.08181807	10.697962	11.16683416	11.16901557	11.34152841	11.07705196	10.63277651	11.00218399	10.56475139	10.7464261
NBP2L2	10.60157413	10.60157413	10.98108208	11.04751426	11.10216611	10.54293949	10.88920605	11.03302314	11.03302314	11.2410677	10.58377101	10.3297219	9.78360466	11.2341185	11.1356774	11.39179877	11.00078223	11.00078223
KTN1	10.23702510	10.96035306	10.96035306	10.68249882	11.02335146	11.0772017	10.67369864	10.75719768	10.9968933	10.64874196	11.05328684	11.03911689	10.28761154	11.42946637	10.88373841	10.9486418	10.7682727	11.6593029
FDPS	10.97378318	11.39314208	11.33870555	11.33870555	10.97147073	11.10123328	10.63207987	10.61961725	10.83005963	10.47460751	10.89393968	10.84661382	11.41633545	11.32395386	10.59606501	10.88343287	10.56889148	10.976076
GPPT1	10.99036783	9.85711745	10.10447004	11.14234272	10.57751698	11.23148064	11.74003996	11.04334961	11.35879538	11.11712526	11.57746608	10.31323035	10.18279559	10.47561121	11.28102294	11.45434688	11.08213833	11.58562311
ITGA5	10.48421362	11.06256781	10.84100033	11.18212179	10.9019827	11.08867554	11.46528108	10.52977372	11.20382923	11.05926423	10.9529988	11.7108551	11.59297005	11.35094808	10.48413773	11.54841147	11.08818165	11.49126233
RBM4A	11.05528284	11.19164119	11.02180408	11.19258008	11.22779706	10.83986556	10.62806755	11.23973204	10.62806755	11.23973204	10.68512266	11.23973204	11.52514489	11.1150576	11.52729371	10.34220077	10.70064025	10.70064025
CCM2	11.22504705	11.83044836	11.59567792	11.41034036	11.04453718	11.17088731	10.79404937	10.64306372	10.90404432	10.75085755	10.83299937	10.95257698	11.2269383	11.16506496	10.60348244	11.33996118	10.76199299	10.36252557
RAB10	10.23293948	10.76695489	10.98460592	11.37350881	10.98460592	11.28606788	10.97597371	11.05224621	10.95010091	11.05224621	11.05224621	11.05224621	11.05224621	11.05224621	11.05224621	11.05224621	11.05224621	11.05224621
FGI2	10.95520086	9.421649842	10.25684805	10.90835368	10.25512923	11.57833834	10.94187713	11.90842026	10.80064467	10.10825943	11.45031705	10.68221115	11.71275203	11.10673386	11.2230369	11.2035728	10.57248615	11.62749731
TA7F	11.01008041	10.90251632	11.04898117	11.09800648	10.90056427	11.01810376	11.02439893	11.06403592	11.16177477	10.85091858	10.74623964	11.06122073	10.7553442	10.83357445	10.59051557	10.81923511	10.82956823	11.07514238
SLC35F2	11.04295636	11.41127248	11.08788573	11.41127248	11.08788573	11.08788573	11.08788573	11.08788573	11.08788573	11.08788573	11.08788573	11.08788573	11.08788573	11.08788573	11.08788573	11.08788573	11.08788573	11.08788573
ITGA6	10.36606619	10.96831874	11.19446603	10.93810749	11.0420712													

SSU72	11.2730415	11.22897713	10.92536368	10.9554933	10.76839071	10.67641242	10.75773668	10.23630779	10.45422876	10.3524268	10.51698009	10.81667185	11.08379407	10.89786566	9.979812738	10.19081854	10.09229818	10.46722413
TMEM39A	10.22819327	10.69275279	10.69380298	10.46918333	10.94597195	11.22604980	10.93600061	10.47885293	10.958027	10.7904003	11.04693195	11.11321329	10.83975588	10.0121244	10.4146166	10.73106952	10.68261072	10.55922167
PP2R1A	10.54083709	10.86172803	11.03716478	10.36534889	10.89679524	10.63802629	10.62942832	10.3458409	10.92057906	10.6031816	11.02635209	11.22526501	10.58319578	11.03170837	10.78616067	10.60835369	10.33927849	11.04880895
SHG182	11.18118486	10.73664444	10.79501674	10.92967299	10.97228421	10.8637572	10.58630993	10.31625462	10.49724513	10.41079064	10.4885477	10.9580992	11.30320338	10.97192836	10.44894389	10.37636762	10.68487593	10.32617807
LAMP1	10.86213463	11.09474562	10.13751666	10.38115114	10.48664664	10.60475476	10.76382356	10.48684651	10.60475476	10.76382356	10.48684651	10.60475476	10.76382356	10.48684651	10.60475476	10.76382356	10.48684651	10.60475476
CDC47	10.25956464	10.76452236	10.70284929	10.70794153	10.82682392	10.60841036	10.43286106	10.71825996	10.45142618	10.71825996	10.45142618	10.71825996	10.45142618	10.71825996	10.45142618	10.71825996	10.45142618	10.71825996
SVAP1	9.68616251	10.12511134	10.39206912	10.40679395	10.28528326	10.85399064	10.43806043	10.96822443	10.55788371	10.89501662	11.57278371	10.26828311	10.96848766	0.23341959	11.1935667	11.15647707	11.6367055	11.0522020
LDR	10.66641778	11.47386178	11.05732918	11.43881275	10.24582406	10.9706156	10.1201667	10.81219237	10.81245151	10.30570209	10.59325108	10.66974125	11.58631673	10.66974125	11.58631673	10.66974125	11.58631673	10.66974125
RAC1	10.37984881	10.75656236	11.06399181	10.70270076	11.06258285	11.18653605	10.7953708	10.74769934	10.79066001	10.49832971	10.70214774	10.2207559	10.79806391	10.5215341	10.53435204	10.41975262	10.3632383	10.73429573
TMEM179B	10.89433636	11.20650345	10.74276304	10.12650345	10.26589103	10.90607572	10.52874953	10.34470976	10.51257865	11.16315477	11.34132403	10.26589103	10.90679873	10.29809943	10.34738765	10.1831328	10.42397074	10.87439704
CREB3	11.02241571	10.24751331	10.69029281	10.12029281	10.68089781	11.18913378	10.24751331	10.7041831	10.24751331	10.7041831	10.24751331	10.7041831	10.24751331	10.7041831	10.24751331	10.7041831	10.24751331	10.7041831
BACH1	10.42957261	9.16930855	10.73505561	10.2324761	10.329491	10.8852055	10.42807996	11.33444692	11.42106747	10.2501805	11.90437941	10.3752539	11.05745331	9.37145194	11.3665437	11.85537885	10.79179111	10.78535999
MLL2A	10.72892807	10.73637087	10.93448914	10.6790509	10.89926237	10.65515594	10.08302817	10.812386346	10.22210744	11.11067424	11.28994265	10.7200112	10.0359773	10.7119598	10.04686206	10.79151449		
DISP22	11.03945884	10.9104988	10.67459946	10.9832887	10.94412935	10.76746478	10.14134246	10.38963856	10.1382026	10.50423803	10.65503709	10.79192115	11.08537966	9.86957155	10.21947092	10.71444188	10.56321976	10.13864633
AIOX5	10.67504782	10.86138131	10.91655236	11.28001185	10.9707303	10.7944034	10.54475814	10.10282543	10.7180934	10.87592462	10.67109188	9.80044591	10.66529479	10.39755278	10.71231064	10.45530603	10.34957977	9.95087553
BLOC15B	10.4126794	10.51697692	10.58863225	10.67116966	10.58631272	10.39740004	10.33486206	11.21204447	10.83610221	11.25990747	10.85430414	10.82084272	10.6666244	10.45407378	10.78989796	11.1746744	11.22371186	10.71974531
MBNL1	10.71459664	10.45918233	10.48433682	10.66531978	10.59206877	10.68820317	10.0465891	10.81581469	10.90465891	10.68779092	11.13320254	10.2777958	9.776353485	10.20751153	10.69236467	11.19063062	10.48022416	10.07825758
RNP51	11.08454338	10.50129417	11.23916405	11.15888588	11.0701342	10.61047716	11.02962915	10.56294787	10.72899218	10.4803696	10.19677777	11.53722417	10.83655845	10.58267182	10.54789820	10.64520286	10.51600599	10.76089524
CB39	10.40183047	10.41785799	11.18582799	10.3866966	10.1064144	10.5051914	10.6772157	10.62575606	10.91911	10.80164087	10.69622543	10.47786247	9.749025491	11.18913185	10.8814236	10.93554361	10.65601054	10.8236923
SC3B3A	10.54714869	11.15012554	10.73555043	10.98403407	10.63725208	10.10116622	10.93585979	10.47968208	10.2688214	10.73941058	10.78170661	10.74029229	10.87976348	10.87832048	10.51978495	10.40665998	11.3893958	10.50634567
FNBP1	10.44212903	10.22599422	10.58555987	10.78019636	10.74425204	10.49854546	11.7555275	10.49854546	10.41796469	10.7412926	10.56389251	11.2849146	11.44925922	11.2244142	11.14762382	10.89350588	10.72805309	
PAIP2B	11.42803154	11.06641006	10.90711175	11.19356611	11.07524979	10.45069021	11.29373	10.69028013	11.03278593	10.9358513	10.67445285	10.31751647	10.57286874	11.0122962	10.52016729	10.5187393	10.9075342	10.91075347
SNRPD2	10.70829226	11.18948014	11.03306789	10.65894431	10.71948302	10.78982455	10.75174509	10.0867489	10.47597406	10.0848332	10.38255835	10.893197	10.85715779	10.77767426	10.80982232	10.07776352	10.26347601	10.43990489
NXF1	10.68370401	10.6882082	10.97045151	10.62304407	10.97045151	10.3549112	11.6290277	10.67195198	11.1051957	10.52091526	9.90014067	10.4099366	9.90092537	11.3821283	10.6773874	10.9209135	10.7402627	
PDE4D1	10.36990876	10.67382588	10.85741219	11.1798605	11.25365405	8.193782447	10.43095559	10.71807842	10.5454307	10.8645137	10.45864644	10.4948007	11.17393938	9.897518302	10.69125414	10.83456688	11.01680378	10.62462967
CtIF50	10.76175539	10.73923019	10.72416225	10.71214225	10.83179941	10.68691554	10.76490093	9.663700909	10.5313749	9.96893229	10.1208031	10.67639468	10.83200732	10.99537675	9.598418557	10.2139736	10.0744862	9.94099463
Dep-07	10.7715778	10.84874996	10.79986462	10.79467802	10.88450268	9.677586789	11.36161431	10.42821318	10.58666318	10.36538402	10.45671957	10.48037143	10.41339597	10.92197773	10.25176878	10.92744290	10.8355532	10.74441331
TNKL1	10.39520307	10.39520307	10.39520307	10.39520307	10.39520307	10.39520307	10.39520307	10.39520307	10.39520307	10.39520307	10.39520307	10.39520307	10.39520307	10.39520307	10.39520307	10.39520307	10.39520307	10.39520307
WHSC11L	9.60511544	9.91488959	10.5628481	10.4853388	10.09738851	10.7541623	10.50132703	10.6348722	10.9755712	10.8315194	11.44869509	10.70338414	11.02095029	10.61702419	10.74387439	11.04673994	10.7211469	11.18965621
RABGAP1L	10.73068957	10.57777853	11.14765709	11.09587998	10.37291336	9.94067909	10.28131055	10.57739378	10.65418731	10.87661968	10.6107016	11.08193836	10.70177417	10.74552644	10.5117462	10.58103122	10.92573627	10.71145219
SET	10.72778864	10.68617984	10.68617984	10.83101972	10.67618522	10.5489951	10.83408791	10.58601272	10.83408791	10.58602606	10.67369064	11.06189207	10.7309242	10.67538866	10.36231562	10.86047162	10.6001248	10.721236425
CERCAM	10.49264063	10.48366641	10.73419775	10.45141621	10.9333133	10.02415282	10.77020906	10.57601415	10.66472162	10.68274048	10.47394782	10.8111174	10.32811771	10.65408503	10.73206134	10.68661609	10.7354721	10.87216795
NUDFA3	10.8451497	10.80129396	10.49128357	10.47245047	10.0855311	11.01342894	10.67173512	10.14977874	10.6740869	10.64038184	10.50744147	10.78663573	11.51472113	10.81689348	10.2070722	10.59878327	10.27374295	10.30357006
E2F4KA	10.52651168	10.21621912	10.68114567	10.91843162	9.826264143	10.73665991	11.14168892	11.19109222	10.61730092	11.05369108	11.21621634	10.3978668	10.23652829	10.87101568	11.08802198	10.53259141	10.7953204	10.66222498
PPP	10.44135224	10.79488345	10.44135224	10.44135224	10.44135224	10.44135224	10.44135224	10.44135224	10.44135224	10.44135224	10.44135224	10.44135224	10.44135224	10.44135224	10.44135224	10.44135224	10.44135224	10.44135224
ARH2	10.58529996	10.69237552	10.71493276	10.68237552	10.71493276	10.68237552	10.71493276	10.68237552	10.71493276	10.68237552	10.71493276	10.68237552	10.71493276	10.68237552	10.71493276	10.68237552	10.71493276	10.68237552
Cl1o31F	10.86046819	11.13819901	10.69041033	10.7066793	10.64185012	10.86041146	10.73349575	10.0531042	10.57101634	10.1832814	10.26681948	11.00173382	10.90517912	11.0060639	9.980091268	10.51054892	10.50351728	10.3839259
TXND12	11.08087449	10.8508378	10.8508378	10.94091102	10.74062227	11.12623523	11.61709657	10.94057788	10.4830071	10.6001848	10.69019337	11.0993782	10.98787512	9.94190595	10.28518491	10.0796509	10.38462873	
SAR1A	9.921124892	10.39865233	10.10288968	10.4323179	10.39469013	10.61814577	11.10859033	10.93225594	10.7314099	10.87290056	11.00046402	10.70227637	9.988504776	10.59315963	10.63456672	10.76804419	11.0364468	10.8223571
CXCC5	11.35921889	11.76356384	11.2430997	10.76356384	11.2430997	10.9678589	10.6645218	10.67217934	10.43981802	10.610383	10.58610664	10.97555407	10.54961045	10.40713243	10.12509693	9.988575254	10.3454611	
DDIT3	11.68959173	11.578911374	10.8561721	10.57607949	11.01316518	10.48005675	10.3249646	10.67676713	10.988025463	10.43969663	10.94396522	10.66161719	10.67179699	10.26796311	10.5793206	10.3034445	10.0654312	
IRF9	10.24528701	10.38166446	9.988661124	10.75004134	10.49135802	10.53907897	10.70572945	10.1578454	10.9844068	10.43950569	10.93625217	10.58612114	11.05053778	10.72518				

PPRF40A	10.1264663	9.808517688	10.68839485	10.0476095	10.12231877	11.22925973	10.7150109	10.3883985	10.85415198	10.66721952	10.69974934	10.62123461	10.17345775	9.504684991	10.58373594	10.67482268	10.50994157	10.6748817
SVTL1	10.8730456	10.53957651	10.86786604	10.87848619	10.78252248	10.44045711	10.14761709	10.87887198	10.56929953	10.83163529	10.6089825	10.4888111	10.59492212	10.79063569	10.59025607	10.45811723	10.99828848	10.47799042
CCDC88C	10.08753147	10.50421629	10.56636371	10.59784875	10.36202059	10.107523	10.22032038	10.11193971	10.24438957	10.83657817	10.60524795	10.20890822	10.17407284	10.99291065	10.12738797	10.68961729	10.118920314	10.10380894
Clor3f	10.7928368	10.95683599	10.59763203	10.25225808	10.49623487	10.66362871	10.80475687	10.01927333	10.3471882	10.60204864	10.54153807	10.70364532	10.77425236	10.81927024	10.14244005	10.65816244	10.4251535	10.43883856
LRK11	10.65938361	10.72730791	10.26109654	10.62108653	10.56314143	10.24117826	10.87219235	10.24117826	10.24117826	10.24117826	10.7451209	11.09261178	10.51052325	10.17266697	10.70072623	10.15947233	10.45877857	10.57142051
CS25A2	10.66425501	10.61398985	10.67313841	10.67103889	11.02359302	11.14221139	10.51668447	10.12692767	10.51668447	10.61066264	10.61066264	10.12692767	10.12692767	10.12692767	10.12692767	10.12692767	10.12692767	10.12692767
DOCK2	9.870620187	10.44642487	10.20372054	10.63760235	10.17026355	11.10320397	9.80230783	10.67379331	10.55936702	10.73848062	10.18695735	10.85291013	11.14799866	10.01782444	11.23487946	10.95827946	10.93488852	10.38006562
MSN	10.47727461	10.26621552	10.24326171	10.24326171	10.2662312	10.42524694	10.8066304	10.92020614	10.57828359	11.18473746	10.38440746	10.1272089	10.01848235	11.08405063	11.20195345	10.71649923	10.0208947	10.69028947
TCB2	10.82394043	10.96000666	10.80427631	10.5558768	10.75867134	11.08010666	10.87194034	10.42223236	10.43389056	10.249447	10.59951339	10.65728986	10.47222486	10.84787249	10.18724367	10.30222182	10.44909575	10.59081127
KRT10	10.65178285	10.57541071	10.85945213	10.51201214	10.17958145	10.59646144	10.53120124	10.17958145	10.59646144	10.59322691	10.53170477	10.78048841	10.84728909	10.07734156	10.48159916	10.56279714	10.42602784	10.42602784
RBMS	10.55762563	10.60837225	10.80725763	10.78025424	10.75664763	9.88514323	10.47908922	10.5524087	10.76024217	9.954168304	10.01293313	10.75374676	10.44535085	10.84088889	10.47125528	10.78491956	10.6902826	10.6902826
PCNP	10.49987208	10.62850374	10.65835114	10.23265866	10.61126939	11.23996756	10.14052807	10.2482067	10.58465209	10.27629872	10.57638951	10.72075878	10.67713306	11.23971615	10.3637405	10.67207798	10.29939289	10.68539523
ADH18A1	10.51777032	10.26420347	10.81948374	10.7235148	10.56601503	10.27282208	10.55055062	10.55055062	10.55055062	10.73787448	11.11751083	10.42066407	10.12580762	10.75183131	10.65080427	10.50172367	10.97405977	10.97405977
PCP11	10.7460765	11.14087033	10.89702592	10.38430801	10.95786322	10.6241006	10.44190437	10.57718378	10.72380795	10.11288514	10.59256562	10.34058349	10.86559083	10.37447848	10.36917938	10.70496687	10.2172435	10.40349011
TMED7	10.50255605	11.00566681	10.31112838	10.02923953	10.88157157	10.50419076	10.46645374	10.9987214	10.2631095	10.97543636	11.13761636	10.66519304	10.42418298	10.25946234	11.13927305	10.7328319	10.43159498	10.43159498
SRI	10.61758985	10.83628004	10.95213212	10.54721497	10.84762368	10.9667809	10.54997784	9.748887806	10.62413618	10.79880206	10.336314	10.86649318	10.93190361	10.28549931	9.66441664	9.951101642	9.841155661	10.6953221
AP351	10.7846575	10.64231059	10.99512669	11.1331192	10.95860572	11.16631381	10.52103066	10.59344809	10.61413345	10.51613345	10.5738963	10.43755168	10.30618468	11.06340281	9.8477598	10.18345256	10.23305211	10.13421271
PTPN2	10.41932938	11.1047591	10.18566709	11.19667233	10.67996628	10.59821999	10.66574015	10.49196712	10.78904653	10.56882799	10.86390208	10.50467285	11.25429226	10.50119908	10.15695619	10.55232355	10.64522981	10.47642265
CDY9B	10.90521386	10.75569671	10.75316933	10.88557202	11.02264419	10.65450888	10.08801543	10.61134112	10.15728335	10.08081543	10.21571933	10.6576663	10.75588371	10.94620506	9.94905899	10.15652727	10.2063255	9.96638005
ACTR2	10.19618647	10.76524862	10.38621384	10.35625959	10.48274657	10.53910146	10.83678032	10.03462807	10.72680869	10.77121038	10.77704809	10.44159048	10.59251495	10.87045694	11.11184916	10.57655044	11.15167286	10.57655044
RAS21	9.577842879	10.08394444	10.92747497	10.80974496	10.80974496	10.9625825	10.92747497	10.9625825	10.9625825	10.54831634	10.61604057	10.96684517	10.11588971	10.02493574	9.802317656	10.70157903	10.76562042	10.96036881
Sep-06	10.51249641	10.75313854	11.26025278	10.43658444	10.84216476	10.97724309	10.35369821	10.47072805	10.53224067	10.58466066	10.77145797	10.49577691	11.15959281	11.34360409	10.12058191	10.89461716	10.5726588	10.19888485
HS1788	10.10811909	11.74131937	10.98396261	10.98398302	10.64929519	10.9713955	10.56399732	10.36197759	10.5947573	10.23005864	10.52685786	10.59817846	11.39485243	10.40100897	10.1647423	10.48279676	10.2573927	10.27143389
DEF6	10.67829762	11.02512853	11.48198111	10.76897033	10.64956581	10.53493693	10.17890245	10.63518423	10.62049205	10.67014519	10.47070683	10.31359942	10.29081063	10.46343961	10.81228245	10.43825553	10.64961129	10.2847723
PRX11	10.33664638	10.65586798	10.04167692	10.52831545	10.2117978	10.1346891	11.18211405	10.1681091	11.18464396	11.0328624	10.44885119	10.50420445	10.28343659	10.07189063	10.86143541	11.13502601	10.55081944	10.55081944
XPT0	10.17712123	10.43691999	11.11012862	10.61602943	10.22682613	9.63354998	9.991125874	10.10596347	10.66072761	10.79260241	10.09222606	10.7196769	10.25834729	10.53609137	10.7196769	10.8698386	10.2627702	10.2627702
GAZ2	10.45981362	10.71561513	10.90955868	9.890792938	10.56724248	10.66028718	10.20091112	10.8842447	10.47359383	10.76953476	10.61540985	10.552523	10.06603065	10.49820568	11.04138255	10.58370769	11.02623714	10.59564301
LRK11	10.55252461	11.03212076	10.81945458	10.63205429	10.48216415	10.82679719	9.98239733	10.45829621	10.73046225	10.45829621	10.45829621	10.45829621	10.45829621	10.45829621	10.45829621	10.45829621	10.45829621	10.45829621
PTG11P	10.0241935	10.43878648	10.17706115	10.6074396	10.76133649	10.8851731	10.67047496	10.23071033	10.46618028	10.55102083	10.49609572	10.88915314	10.76615421	10.95520194	10.32018332	10.3121054	10.32265459	10.48521648
Cl10A	10.85462142	10.56376441	10.74473804	10.31749175	10.60401125	11.13108119	10.50125758	10.6808726	10.22288148	10.81936487	10.5465364	10.66781239	10.27312764	10.58179403	10.54280544	10.32471801	10.85710882	10.41547572
CA8A	9.83768855	10.78890513	8.961183883	8.959090959	10.11838646	10.0504202	10.1334284	10.150764973	10.43926761	10.1334284	10.75419574	11.37803255	11.16621003	10.95628627	10.99732392	11.04126014	10.20512528	10.6795701
CCDC50	10.19694102	10.55482199	10.27028628	10.5881292	10.6302382	10.21488252	10.21669409	10.02551346	10.40950787	9.702377887	10.75419574	11.37803255	11.16621003	10.95628627	10.99732392	11.04126014	10.20512528	10.6795701
PPP3C	10.6083307	10.73214639	10.84041721	10.83830284	10.6038943	10.13414366	10.96053088	10.35678812	10.36251864	10.5551169	10.29180008	11.0536725	10.42896404	10.99521238	11.0855319	10.87614428	10.5082732	10.2325763
SP100	10.4784677	10.58664468	11.4601812	10.15265272	10.9318965	10.75677676	10.84717359	10.54228368	10.4237111	10.5551169	10.29180008	11.0536725	10.42896404	10.99521238	11.0855319	10.87614428	10.5082732	10.2325763
LRK11	10.55252461	11.03212076	10.81945458	10.63205429	10.48216415	10.82679719	9.98239733	10.45829621	10.73046225	10.45829621	10.45829621	10.45829621	10.45829621	10.45829621	10.45829621	10.45829621	10.45829621	10.45829621
FGFR10P2	10.29145595	10.06992166	10.7474627	10.3890426	10.68811622	10.73385599	10.68811622	10.73385599	10.68811622	10.37088427	10.68811622	10.20958339	11.46678405	10.3806909	10.6485128	10.82665484	10.49238144	10.49238144
FHX07	10.46904974	10.44706533	10.67074243	10.88533564	10.75127394	10.18406436	10.8243902	10.16716422	10.58239038	10.21337473	10.55655838	10.68889762	10.797695	10.77740543	10.12471593	11.1874265	10.14468688	10.62262658
NDEL1	10.24755685	11.0038914	10.0743334	10.6493628	10.93230111	11.00166235	10.10663096	10.57402133	10.5638104	10.4453871	11.1480428	11.00105459	11.40963548	11.01581539	11.02304887	10.85284844	10.12360752	11.00847878
TMEM107	11.1494913	11.15246935	10.11028457	10.45470079	10.99758187	10.11501697	10.60265021	10.06786302	10.73483883	10.4168131	10.659112835	10.71213999	10.61211616	10.50072229	10.25123838	10.38780804	10.06317493	10.0297855
ISOC1	10.47035956	10.55618406	10.7147748	10.37469422	10.7147748	10.5661163	10.77897914	10.16450885	10.63929166	10.36408537	10.5100753	11.01719872	10.97881213	11.0363686	10.25774787	10.56565542	9.99420068	10.57018526
CLDN10	9.815006204	10.15775162	10.55832357	10.15829252	10.39401756	10.80026729	10.30855594	10.52691158	10.5926722	10.56291158	10.69419414	10.39237953	11.16921273	11.39780824	10.8236833	10.36232265	10.61409236	10.78338652
PTRP1	10.71530516	10.73360445	11.09399388	10.79071975	10.99098778	10.09896175	1											

PYURF	10.80782574	10.54264215	10.59416221	10.50185963	10.86417487	10.8353424	10.58166957	9.57861858	10.50951258	9.50152418	10.24994241	10.93841592	10.8954098	10.10944158	9.3225635	10.33189329	9.760248409	10.2232816
NHLS	10.04447015	10.76026867	10.02977072	10.92174355	10.70344169	10.93121347	9.897381842	10.8210855	10.62988484	10.20291541	10.63085154	9.97123723	11.04872247	11.00290241	10.9260486	10.38018759	10.31379132	10.76131961
DOB1	10.88891124	10.46991124	10.6953254	10.98141606	10.13784276	10.28001828	10.45429589	10.61961084	10.26534627	10.73996171	10.53957657	10.57062072	10.10664329	11.03609471	10.75124401	10.55345053	10.6391556	10.31469104
STAT2	9.973023675	10.15873778	10.83318456	10.83112518	10.98055468	10.04662748	10.37137573	11.30676498	10.21068188	11.14000496	10.38189308	10.35412495	8.48384156	10.93785774	11.43752811	10.84338513	11.33017807	10.62107145
SVH	9.847894391	10.69149394	10.89149394	10.69149394	10.89149394	10.89149394	10.89149394	10.89149394	10.89149394	10.89149394	10.89149394	10.89149394	10.89149394	10.89149394	10.89149394	10.89149394	10.89149394	10.89149394
TV2P2B	10.02709952	10.66894645	10.37699458	10.37699458	10.99510829	10.15346488	10.29597999	10.87930708	10.14923572	10.17930708	10.47810835	10.93354795	10.29340281	10.72407045	10.52372412	10.75517344	10.11553784	10.20830300
ALG2	11.05610756	10.52389	10.67382641	10.70139529	11.24875958	11.12608128	10.3071564	10.2053427	10.62100152	10.30161228	10.36436307	10.13244128	10.50568672	10.68052198	10.0091514	10.47640087	10.29773171	10.10038424
Sep-01	10.44989188	10.88394102	10.83856123	10.7144872	10.5855647	11.04501385	10.22730172	10.838315897	10.37461246	10.27824212	10.0700046	11.60321419	11.15657317	10.98690588	10.17745513	10.42127271	10.52432793	10.47515678
SCL12A4	10.46183037	10.77267048	10.64587509	10.41980744	10.62761267	10.26166118	10.32316587	9.985088167	10.55887239	10.61701825	10.26516536	10.87916911	10.70827362	10.6128237	10.39079947	10.53491576	10.39625748	10.84201449
PSAT1	11.35559374	10.88159784	11.07328486	10.92785294	11.244871	10.8821359	10.8000095	9.812886689	10.52007578	10.25007578	10.60329557	11.33847554	9.936317382	9.62390809	9.631792531	10.47609459	9.830370569	10.4276399
SURF1	10.31893368	10.9094377	10.9094377	10.96520351	10.09971553	11.02484735	10.67942133	10.91353473	10.49135347	10.15135347	10.72650812	10.49886362	10.94156098	11.05307557	9.842789122	11.11486595	10.0754304	10.23974563
PSMD4	10.16516065	10.85679904	10.7595202	10.6161486	10.7661613	10.95487326	10.13852269	9.89647287	10.19343482	10.06607697	10.16696908	11.06526285	10.67549544	10.7479087	9.82094426	10.28446792	9.858489373	10.37183265
CTA1	11.019441	10.48266686	10.6436149	10.53850375	10.50513328	10.3339871	10.34765144	10.78255872	10.74128629	10.91836779	10.1118667	10.59212321	10.36981247	10.46113082	10.35043363	10.20727366		
KCN3	10.24754726	9.83954647	11.10428393	9.366435248	10.4437117	11.1478923	10.81466594	10.77398367	10.39566598	10.61400402	10.84315956	10.48932417	11.00908889	10.27793996	10.51061524	10.47712078	10.59119565	10.29298659
ATP5G3	10.65183498	10.78100211	10.47289025	10.46187596	10.47289025	10.67480058	10.26549412	10.54936578	10.19316468	10.29131648	10.73456268	10.95287466	10.33196781	10.30151443	10.26888006	10.24664523	10.31627965	10.57455994
TRAPP3C	10.80280866	10.87079326	11.13577105	10.45218756	10.7542463	10.68076269	10.68161228	10.09031114	10.567769	10.26634492	10.47999769	10.50172602	10.6807027	10.43674582	10.16298663	10.38110314	10.15208073	10.32331614
RPS198P1	10.7022385	10.5999248	10.80875108	10.42487706	10.62440106	10.80812384	10.62440106	9.891438999	10.16241127	10.08703293	10.05650385	10.66128244	10.95838646	10.55365607	9.862176488	9.980529044	10.0040017	10.10575994
PCYOX1	9.940703423	9.885478339	10.81185536	10.76458624	10.51898751	10.36887679	10.94866586	10.4494394	10.39642297	10.63084285	10.75463611	10.15652343	9.962398515	10.59984068	10.50778254	10.34142212	10.85487474	9.88266217
TMEM167A	10.69535328	10.49691342	10.45201314	10.62348632	10.71867049	11.08617619	10.54530404	10.47096718	10.5753653	10.39994698	10.70527531	10.39643079	10.69707416	10.53916021	10.18725534	10.43551082	10.38953321	10.43868176
TNXL4A	10.52961594	10.50539498	10.46147011	10.54738794	10.79979714	10.78497488	10.46142006	10.11921011	10.40415867	10.31260288	10.30864903	10.54596408	10.61051316	10.66191649	10.06520962	10.16164209	10.5099465	10.16566551
TM15	10.46504915	10.21440435	10.49854874	10.1396421	10.2106607	10.5505909	10.40338286	10.77703107	10.46354025	10.71511559	10.5653842	10.75180917	10.30553801	10.12051238	10.84049578	10.66362669	10.7900547	10.7509183
SFR51	10.20947998	10.41185373	10.32803489	10.25133849	10.92492412	10.2847167	10.69845097	10.83421218	10.27717122	10.55477205	10.52996698	10.864708342	10.91091325	10.85731336	10.69751088	10.75706037	10.4580719	10.89596913
NAP1L1	10.50186284	10.88539999	10.71539984	10.31764982	10.70380204	10.39023683	10.65414431	10.39344707	10.55695774	10.37382209	10.77347283	10.6034484	10.75312058	10.39721121	10.05641386	10.45638498	10.32336064	10.06946623
DNAJC10	10.63213326	10.40899338	10.5477777	10.72556499	11.03053585	10.26291813	10.7350705	10.19445331	10.0531069	10.5031069	10.82161497	10.81524818	10.90355751	10.01515693	10.34739591	10.42159365	10.45643912	10.7848921
PNRP	9.756620351	9.532813825	10.0651744	9.96174575	9.460377627	11.12061914	10.65292292	10.71612158	10.1901447	10.47946071	11.66991543	10.03532376	10.47623891	10.93693826	11.09820659	10.93073305	10.29471427	10.02881056
DEF8	10.80120582	9.668847399	10.52469416	10.50293865	10.3218337	11.0812545	10.68054925	10.51736457	9.994627318	10.36484862	10.2219379	10.96206936	10.88693039	11.17927803	10.30286639	9.971290464	10.40173204	10.55656225
DNAJB6	10.4371174	10.69858741	10.5569597	10.5083884	10.68187096	10.3826747	10.21738934	10.75959695	10.411758016	10.411758016	10.41915254	10.8823202	10.50790994	10.46638066	10.99909026	10.2050999	10.39780456	10.48511949
TM6A	9.82897957	9.76913514	10.29149267	10.67544022	10.76913514	10.45409372	10.34792968	10.46519926	10.2993089	10.2993089	10.46519926	10.46519926	10.46519926	10.46519926	10.46519926	10.46519926	10.46519926	10.46519926
PCGF5	10.24361421	10.54456319	10.7861586	10.54532884	10.3544824	10.8620034	10.73250911	10.38978114	10.59866653	10.28042481	10.4195284	10.62005194	10.54939055	10.29425533	10.11028525	10.05649692	10.80255858	
FCHSD2	9.550212428	10.47187319	9.894834223	9.783971035	10.46900987	10.59327568	10.59612428	10.41661472	10.61938068	10.80032768	10.9186752	10.12900393	10.0191891	10.32761647	10.87639719	10.70731717	11.03780818	10.39919096
ATP1A1	10.10520265	10.20452959	10.78078407	10.70594917	10.71206687	10.59506865	10.28421261	10.1946471	10.3964741	10.21252311	10.83577408	10.44669683	10.24059055	10.15861835	10.48872639	10.22710884	10.32668607	
MVP	10.18091582	10.50425244	10.41584845	10.79137461	10.52830504	10.27971578	10.93883072	10.22342481	10.24582783	10.66622942	10.28611579	10.43281247	10.91131337	10.27405702	10.85087209	10.22146682	10.50254209	10.96331004
SCL38A1	9.752899785	9.550267086	10.21487364	10.67141339	10.53506922	8.793605862	10.41401056	11.03920157	10.29806289	10.36921624	10.59350359	10.24866995	9.994720886	10.62179812	11.40091784	10.68490267	10.2065501	10.7398832
USP16	9.2472058	10.48514406	9.97147661	10.57128869	10.77242788	10.246296	10.1053894	10.67028228	10.46425257	10.44786802	10.50007374	10.71396159	10.46775333	10.00439847	10.50430303	10.40562064	10.5958511	10.46442205
MRPL55	10.7410958	10.67538482	10.5318482	10.67538482	10.7410958	10.7410958	10.7410958	10.7410958	10.7410958	10.7410958	10.7410958	10.7410958	10.7410958	10.7410958	10.7410958	10.7410958	10.7410958	10.7410958
ARL8D	9.99020344	9.6923659	9.719109267	10.53358486	9.700784296	11.32056368	10.4246632	10.64465717	11.04438517	11.04438517	11.2016255	7.93934256	10.40463265	10.54508671	10.11373309	10.31258889	10.49809274	10.9691028
SVNE2	10.4904261	10.39166545	10.95457303	10.33978717	9.66476192	9.31481971	8.79859172	10.94987433	10.18368403	10.50495993	10.47212341	10.31971212	10.35692634	10.40589092	10.093406	10.82344651	10.69497455	10.61606291
S100A6	10.54818138	11.136701721	10.84615377	10.92092269	10.84615377	10.84615377	10.84615377	10.84615377	10.84615377	10.84615377	10.84615377	10.84615377	10.84615377	10.84615377	10.84615377	10.84615377	10.84615377	10.84615377
VPS37B	9.559607876	10.16204993	10.61855565	10.74788592	10.21005076	11.08261761	10.71989145	9.987120203	10.38708383	10.5586317	10.98551211	10.13528283	10.60793885	10.53353422	10.03295637	10.21851184	10.3348188	10.8356777
MEPR	10.4917802	11.36002545	10.6009959	10.46029516	10.84021969	10.87878495	10.35757743	10.38868104	10.38868104	10.38868104	10.42817339	10.60884217	10.75945655	10.60626068	10.01315117	10.07570054	10.10505161	10.24517574
LT4AH	10.97672319	10.68058415	10.50531371	10.51517235	10.69705926	10.6390276	9.42844564	9.96517058	10.54880078	10.45680947	10.46334	10.89110276	10.39186724	8.639243692	9.792720307	10.17937077	10.31851183	10.0544427
SKIL	9.62329656	9.548539282	10.548539282	10.17571498	10.46440995	10.56512349	10.85344672	11.05621139	10.69214067	10.72547486	10.							

WDR305	10.65609614	10.32387927	10.61960866	10.41780264	10.25637407	10.84114157	10.36787699	10.04459271	10.38970438	9.96359087	10.27178965	10.40405769	10.34833088	10.43439358	9.95958529	9.94455522	9.947607567	9.973176842
PPIG	10.92288394	10.42665034	10.38440352	10.59542322	10.72020786	8.856425175	10.17285665	10.725502492	10.35383374	10.00311155	10.00363575	10.61194951	10.11270418	10.45668838	9.723182319	10.30843104	10.08015627	10.38714573
TMX1	10.48063554	10.33592924	10.41408112	10.33734277	10.9013869	10.23403875	10.96155011	10.96155011	10.43224776	10.03166665	10.49223841	10.63783019	10.10654502	10.55859921	10.23100787	10.17907372	10.68509943	10.98039563
MPZ11	10.02736374	10.31983337	10.69532777	10.79710642	9.91567411	10.35664168	10.53959435	10.22493751	10.332920592	10.49853533	10.35793539	9.431004548	10.85241587	10.33172751	10.25828118	10.49628416	10.09698645	10.25194159
CMR	10.10640475	10.77396982	10.57939832	10.57939832	10.44040858	10.52111688	9.57699002	9.84978137	10.24408858	10.39543389	10.57090827	10.46594102	9.94490531	10.60427449	9.683513582	10.25194159	10.34451582	10.49295885
ZRANB2	10.15379625	10.1236655	10.1236655	10.1236655	10.1236655	10.1236655	10.1236655	10.1236655	10.1236655	10.1236655	10.1236655	10.1236655	10.1236655	10.1236655	10.1236655	10.1236655	10.1236655	10.1236655
BNI2	10.7099946	10.32483299	10.9061518	10.1600333	10.4130606	9.826874784	10.83100144	10.30997863	10.33038465	10.27449018	10.76267297	10.37733391	10.00205166	10.28375926	10.20221177	10.6428558	10.03158833	10.65437965
FAM136A	10.18458751	10.50575158	9.778602101	10.29144492	10.22023417	10.32125173	10.36746831	9.947869586	10.40685668	10.43061362	10.36409139	10.4877732	10.19582867	10.4077447	10.39945417	10.33274705	10.16383019	10.49628416
SF1	10.68446364	10.39215405	9.985893279	10.64696054	10.23070181	10.54406346	10.2612971	10.31640001	10.19438894	9.886989774	10.33395971	9.806810553	10.41732123	10.82745504	10.42870295	10.34006013	10.1003932	10.3176398
NDUF810	10.6113639	10.5607134	10.48691432	10.25196334	10.48691432	10.50720351	10.28848001	10.25793147	10.28848001	10.25793147	10.2575588	10.64517733	10.108983776	10.88314414	9.962140842	10.13612743	10.2923243	10.18781342
B08A3508	10.69617746	10.75451529	10.3886531	10.81255776	10.31159405	10.31553633	9.928530512	9.97246691	9.928530512	9.97246691	9.82731533	10.65921903	11.26396801	10.89839756	10.16006796	10.19152322	9.964016088	10.18346335
CIQP	10.58879956	10.12664209	10.12664209	10.52420706	10.7842902	10.46927029	9.818227427	10.3423903	9.791114996	9.8484794	10.30514992	10.50423066	10.46088029	9.710337474	10.29945292	9.803697099	10.20709877	10.34451582
SRNP200	10.52054544	10.53913129	10.70998332	10.661851565	10.12405669	10.13124509	10.62710986	10.45323288	10.4085756	10.1788922	9.70752655	9.735814098	10.15738562	10.26542183	10.61548786	10.69522947	10.69522947	10.69522947
YEL3	10.46680336	10.73132629	11.00898712	10.40188685	10.34554346	9.939571942	10.71583437	10.3312906	10.21735265	10.21735265	10.21761154	10.06823039	9.951479983	10.90068357	10.14735656	10.13539289	10.3774292	9.944636576
HIST2H4A4	10.22902715	10.22902715	10.60150169	9.54854552	10.23617572	10.40409396	10.04651748	10.64600295	9.94608075	10.21894117	10.45163178	10.51973078	10.84849913	10.1508984	10.56821943	10.15125595	10.07133693	10.48772672
NP056	10.05218341	10.05336063	9.926461958	9.75039074	9.942075397	10.742734212	10.69875046	10.633093	9.37127388	10.39113302	10.33501405	10.12286688	10.30464246	10.27850931	10.85674151	10.29893753	10.45086724	10.48351923
PRK2D	10.75614061	10.73290866	10.96167605	10.73290866	10.01514209	10.4436169	10.04030174	10.28916923	10.28056969	10.29233689	10.06048434	10.105875883	10.63456622	10.664567203	10.17245461	10.11239939	10.48032089	10.48032089
CRBN	10.33569122	10.29722925	10.93837174	11.41709429	10.73461681	10.7622825	9.907292019	8.9521944	10.2050717	10.1778051	10.59612357	11.50716199	11.36327267	10.08257113	10.0963501	10.0496261	10.34662323	10.34662323
TUBGCP6	10.16134616	10.54546593	10.54546593	10.30299021	9.678974691	9.744056127	10.08948392	9.751100931	10.93774427	9.900674592	10.18203474	10.69974175	10.91272043	11.18538078	10.4790363	10.11598084	10.32740502	10.32740502
BET1	10.49862734	10.27133202	10.39723837	10.3565121	10.38504592	10.70520043	10.30595928	9.767801988	10.3232276	9.859440549	9.87405952	10.50765406	10.40519939	10.7857034	9.802573905	10.30465070	9.62218469	9.62218469
ETK1	9.925559962	10.27755788	10.64168259	9.823483991	9.67715291	10.39871551	9.72864235	10.74574164	10.0735544	10.40551052	10.43331356	9.803028494	9.707221252	10.6807855	10.34146791	10.28327097	10.40230428	10.61773742
IFNGR2	10.64655939	10.62255559	10.62451068	10.62255559	10.40298417	10.32502608	10.6021193	10.36941432	10.51947117	10.51947117	10.47939005	9.568317892	10.29875494	10.51948137	9.974305585	9.670442651	9.88697436	9.97647936
MOXD1	11.19771626	10.7193667	11.34837473	10.4443632	10.65867782	9.542931083	10.78113031	10.00991242	10.63466916	10.5935129	10.39708703	10.0790359	10.2122663	9.93558477	9.478397567	10.03890474	9.92012888	9.318736083
AB11	10.30824234	10.5092691	10.06135948	9.26006638	9.56435877	10.9815525	10.33624547	9.867461431	10.69868182	10.30824234	10.68709593	9.71298977	9.645005627	10.56100056	10.09679672	10.33611815	10.04184003	10.45181255
ANAPC13	10.77052824	10.73993151	10.6995864	10.34995209	10.5301655	10.34995209	10.78128977	9.832055646	9.741467857	10.1761355	10.28945849	10.23931448	10.104328162	10.49474667	10.62773717	10.52011701	10.57067527	10.27622871
TRPC4P	10.38696864	9.443533832	10.26185686	8.853749616	10.31788884	10.1576041	10.00541721	10.38679974	10.24745178	10.33381645	10.28945849	10.23931448	10.104328162	10.49474667	10.62773717	10.52011701	10.57067527	10.27622871
CARS	10.57039335	10.44481320	10.5607546	10.05366799	10.56933399	9.964976678	10.62178271	10.30399831	10.18079315	10.30399831	10.05930802	10.74255602	10.84298052	10.46441297	10.29554718	10.18511197	10.11809884	10.14567211
CDK1B	10.28916675	10.55178922	10.61501892	10.55178922	10.61501892	10.55178922	10.61501892	10.55178922	10.61501892	10.55178922	10.61501892	10.55178922	10.61501892	10.55178922	10.61501892	10.55178922	10.61501892	10.55178922
ARHGAP27	10.05821387	10.50986975	10.1035443	10.17358396	10.5346446	10.17374135	10.61704427	10.14829844	10.44298944	10.91046227	10.14829844	10.44298944	10.91046227	10.14829844	10.44298944	10.91046227	10.14829844	10.44298944
CORO7	10.18633967	9.836037892	10.31472831	10.6922761	10.43984498	10.1899068	10.32669264	10.29168285	10.24892312	10.17135551	10.28847402	9.905303201	10.8791899	10.71706909	10.37866653	10.42954354	10.36240519	10.04351938
NDUF410	10.38120637	10.3780466	10.3780466	10.3780466	10.3780466	10.3780466	10.3780466	10.3780466	10.3780466	10.3780466	10.3780466	10.3780466	10.3780466	10.3780466	10.3780466	10.3780466	10.3780466	10.3780466
UBL3	10.6186292	10.82222531	10.9926199	10.6905082	10.64826117	9.914040527	9.962257099	10.2682575	10.8806744	10.07343663	10.8059162	9.798621401	9.835195223	10.31253828	9.973713459	10.59284684	9.66995895	10.2927163
AKR1B1	10.50005578	10.27629468	10.6320398	10.27629468	10.9744895	10.61025411	10.39753943	10.09067739	10.18387314	10.23369058	10.2089604	10.32850439	10.63762786	10.88750759	10.0613385	10.19832898	10.23642788	10.39043717
APX1	10.22094043	10.71288914	10.7190813	10.45039399	10.28138266	10.65733198	10.49889935	10.19694304	10.32330935	10.11626653	10.2524996	10.49975129	10.71934258	10.4616005	10.25099127	9.864791364	10.15803399	10.26947108
TRAF3	10.46509453	10.59110321	10.94169659	9.96254108	9.9753941	9.96254108	9.9753941	10.45649081	10.11703711	10.14877392	10.3048671	10.571393747	10.4545523	10.46707801	10.26089076	10.46372509	10.09789458	10.46372509
TRIM28	10.33312033	10.50986975	10.1035443	10.17358396	10.5346446	10.17374135	10.61704427	10.14829844	10.44298944	10.91046227	10.14829844	10.44298944	10.91046227	10.14829844	10.44298944	10.91046227	10.14829844	10.44298944
SEC16A	9.95577317	9.787733649	10.3583535	10.54278749	9.428014575	9.105018694	10.26200372	10.25530465	9.87197533	10.3529465	10.1155564	10.84625511	9.914440894	10.55334912	10.50150427	10.34026234	10.59534607	10.46135809
STK4	9.756731814	10.60747973	10.25457832	10.10225904	10.40593683	9.457461172	10.07436067	9.73888483	10.66671271	10.48314825	9.90038277	9.628991596	10.34759145	10.10706652	10.79870677	10.61228027	10.41581289	10.41581289
APFH	10.29707129	10.71028688	10.07078077	10.3190511	10.04101939	10.39836897	10.57694762	10.30602570	10.04355794	10.29645879	10.30491835	10.3735283	10.30953241	10.32764835	10.19824951	10.21466403	8.85326029	10.24578142
NSF	9.97195465	9.692111207	10.09646509	10.39542516	10.47399905	9.978855649	10.40978018	10.14685757	10.33503254	10.15878235	10.37828515	10.3952124	9.967682853	10.14878794	10.41665505	10.31781421	10.28303908	10.28303908
PAPSS1	9.89801957	10.59294335	10.1248175	10.5873993	10.68436296	9.57650377	10.2159963	10.34985804	10.30880103	10.24254929	10.0318602	10.12918975	9.669349841	10.49136049	10.61465216	10.5334968	10.29038497	9.97325533
VDAC3	9.861298177	10.23057036	10.47384493	10.23057036	10.47384493	10.23057036	10.47384493	10.23057036										

PTPN1	8.477110052	8.842676354	9.39867496	9.143906721	9.323633729	10.65227082	10.04732341	11.06145117	10.02319625	10.18986632	11.47747384	9.514486961	10.30198357	10.32435719	11.46275816	10.87548415	10.16824533	10.92891309
NDUF55	9.823478522	10.31455067	10.32495858	10.31469601	10.20834027	10.41979007	10.35661389	9.943548718	10.38178509	10.08391633	10.18787731	10.0894043	10.15412063	9.854530991	10.10189527	9.922115639	10.16891251	10.16891251
ACADM	10.35999172	10.65082628	9.73664345	10.40294634	10.75197368	10.10019157	10.49155434	9.807734734	10.37996711	10.10502761	9.863591775	10.46108396	10.22137021	10.20726504	9.828187205	10.15391673	9.989976117	10.47555717
CREBBF	9.588126762	10.60221999	10.70426651	10.63796119	9.494058503	10.31503123	10.00261307	10.20586866	10.50350209	9.885704026	10.45234067	9.746075285	10.51014247	8.728217981	10.28467051	10.150595987	9.799434694	10.05008663
CNRP1	10.37651399	10.81182086	10.18120096	10.73851197	9.883555569	10.51601118	10.21445119	10.03600701	10.17324451	9.770071497	10.17324451	9.849372026	9.41891273	10.59574014	10.18426569	9.728629549	9.645717196	10.16773906
UCCK2	9.79852652	10.2975544	10.18043883	10.18043883	10.3068286	10.34744208	10.71746857	9.907339522	10.00687454	9.53765699	10.02592829	10.26655208	8.989007654	9.7572624	8.88451448	10.0087165	10.1750834	10.6618541
RALG2	9.658580348	9.88632715	9.360181664	10.20604376	9.64201963	10.14934201	10.35634443	10.95678463	9.997985033	10.30986586	10.34959072	9.679421349	10.70349517	8.86562106	11.33237682	10.50682039	10.2662779	10.0368511
SLC5P1	10.19170601	9.52803424	10.16241507	10.31862285	9.79953163	10.25801249	10.44857282	9.682038531	9.898976074	9.980385231	10.36350185	10.48753723	10.52778841	10.20304388	9.827456641	10.36139227	10.13127028	10.03294693
ALG3	10.189912	10.29943449	10.4579339	9.544975062	10.3735647	9.29845199	10.63872717	9.871252442	10.1636413	9.992579328	9.95587064	10.28705934	10.37406706	10.69623642	9.650446931	8.909307613	10.95103691	9.959730867
PPPGC	10.343472	10.10094982	10.10094982	10.68014668	9.98065551	9.80164002	10.43193589	10.45694889	10.80164002	10.1519613	9.79026652	9.543066512	9.749991165	10.33555163	10.38551134	10.16917950	10.10149636	
CHAC1	10.12510308	10.29020753	10.1511947	10.29020753	10.74514554	8.84858294	10.12619674	10.18673121	9.493769641	9.794894005	10.72574093	10.37052089	9.212802502	10.41254676	10.2996689	9.859529333	8.989653951	11.0194941
SELPJ	9.30700488	9.754738611	11.03869143	9.678567976	10.01604836	10.75712469	10.45624035	10.45419649	9.52226802	9.93522724	10.57269551	9.680007866	10.14230923	9.756406676	10.70101214	10.20517038	10.02594719	9.75369831
MT2B	10.12865138	10.32437697	10.12865138	9.901734519	10.16553994	10.13169184	10.14203939	9.975224412	10.20511785	10.25505625	10.25062866	10.26055997	10.18002308	9.7255507	9.83077125	10.32618984	9.95565707	
AKA	10.78092872	10.37277196	10.32409504	10.58001447	10.33324129	10.40607096	10.02205156	9.666145258	9.851881442	9.627962087	9.845091719	10.48271208	10.48047272	9.375929427	9.594003933	9.945846307	9.507415669	
RPT2	10.74758576	10.70114827	10.14859748	10.44617898	10.68400832	10.55070627	10.23458192	9.80244359	9.01956111	10.19499211	10.19440859	9.750831746	10.10388768	10.02506598	9.73663373	10.10685667		
UGGT1	8.678272461	9.431696165	9.908074006	9.351027643	9.516193854	9.98509592	11.17825565	10.48787148	10.38145523	10.67019146	10.74735777	10.03513695	9.375379293	11.0394977	10.24993222	10.53038959	10.24349211	10.09835149
NOMO1	9.628505861	9.763074738	10.09486711	10.24175006	10.49827517	9.81584939	10.14002169	10.25542726	9.781960793	10.04401269	10.42909176	10.62118908	9.310447937	9.682122698	10.52203841	9.594372272	9.07771687	10.34231498
UGP2	9.85329586	10.39817304	10.57011643	10.73753	10.60983168	10.2981257	9.85089499	9.788303263	10.20068499	10.08121055	10.07998666	10.39976639	10.06322639	10.18867782	9.822415627	10.23137193	9.82574247	10.14342973
GBRP1	10.0950318	10.49644171	10.15253062	10.0068544	10.00932165	10.54099291	9.869330993	9.912333675	10.41925277	10.28761148	9.85377611	10.32384431	10.57262726	10.26298079	10.07589578	10.38621094	9.885560495	9.859864395
TMEM134	8.99234338	10.62398441	10.2665001	10.40277405	10.33169028	10.32225071	10.15295999	9.725148647	10.17531573	9.965402651	10.17531573	10.32486516	10.66551713	10.25300835	9.765683903	10.04799981	9.842302068	9.861656015
MT2B	9.5685306	10.46527371	9.98803945	10.44744123	9.90382998	9.852953805	10.5064855	10.08310616	10.30961632	10.10391815	10.12252982	10.45735997	10.14400188	10.18002606	10.2533339	10.37465313	10.0690366	10.30774741
IRF3	10.16424373	10.55606005	10.42481362	10.05789701	10.2911716	10.47086311	10.41083258	9.92346173	10.15832399	9.965884458	10.18607978	10.81819485	10.17678972	9.947859646	10.12337076	10.06226006	10.09616063	
PTEN	10.19293715	10.23754009	10.13561837	10.47311103	9.887577299	10.27139553	9.850618229	9.738352975	10.18693865	9.984247667	10.39510685	9.54373508	10.36674047	10.70473274	9.724050514	10.21890212	10.0303682	9.93892519
SGK1	8.89530117	9.834530095	10.22340311	9.37811475	9.60247175	10.02858686	10.16232618	9.54243069	9.98243069	9.984247667	10.43333301	10.08483968	10.80575183	10.29668845	12.69159709	11.61932083	9.37218187	11.17177444
ANAPC11	10.18296603	10.6217126	10.5434842	10.38180788	10.40316747	10.32882547	10.32700668	9.79120276	10.01882252	9.683426884	9.963260841	10.52124408	10.16330955	10.15283791	9.461085185	9.777225603	9.73985564	9.904391226
RELB	9.59338727	9.799358298	10.47098906	9.577483344	10.04615313	10.2079186	9.961651402	10.5710297	10.43737041	10.02210625	10.77720731	9.93663109	9.622476938	10.34871484	10.46172799	10.21294807	10.10821165	10.39859716
CLF1	8.678763732	9.779239931	9.188626805	9.35776675	9.27320221	10.8603806	10.9636527	10.4887181	10.90174467	10.30307103	11.6093089	9.399972954	10.01173014	9.504719566	10.43081126	10.99171282	9.93488377	10.70698607
TMEM134	10.146485213	10.55606005	10.42481362	10.05789701	10.2911716	10.47086311	10.41083258	9.92346173	10.15832399	9.965884458	10.18607978	10.81819485	10.17678972	9.947859646	10.12337076	10.06226006	10.09616063	
PKNOX1	10.19293715	10.23754009	10.13561837	10.47311103	9.887577299	10.27139553	9.850618229	9.738352975	10.18693865	9.984247667	10.39510685	9.54373508	10.36674047	10.70473274	9.724050514	10.21890212	10.0303682	9.93892519
SGK1	8.89530117	9.834530095	10.22340311	9.37811475	9.60247175	10.02858686	10.16232618	9.54243069	9.98243069	9.984247667	10.43333301	10.08483968	10.80575183	10.29668845	12.69159709	11.61932083	9.37218187	11.17177444
ANAPC11	10.18296603	10.6217126	10.5434842	10.38180788	10.40316747	10.32882547	10.32700668	9.79120276	10.01882252	9.683426884	9.963260841	10.52124408	10.16330955	10.15283791	9.461085185	9.777225603	9.73985564	9.904391226
RELB	9.59338727	9.799358298	10.47098906	9.577483344	10.04615313	10.2079186	9.961651402	10.5710297	10.43737041	10.02210625	10.77720731	9.93663109	9.622476938	10.34871484	10.46172799	10.21294807	10.10821165	10.39859716
CLF1	8.678763732	9.779239931	9.188626805	9.35776675	9.27320221	10.8603806	10.9636527	10.4887181	10.90174467	10.30307103	11.6093089	9.399972954	10.01173014	9.504719566	10.43081126	10.99171282	9.93488377	10.70698607
TMEM134	10.146485213	10.55606005	10.42481362	10.05789701	10.2911716	10.47086311	10.41083258	9.92346173	10.15832399	9.965884458	10.18607978	10.81819485	10.17678972	9.947859646	10.12337076	10.06226006	10.09616063	
PKNOX1	10.19293715	10.23754009	10.13561837	10.47311103	9.887577299	10.27139553	9.850618229	9.738352975	10.18693865	9.984247667	10.39510685	9.54373508	10.36674047	10.70473274	9.724050514	10.21890212	10.0303682	9.93892519
SGK1	8.89530117	9.834530095	10.22340311	9.37811475	9.60247175	10.02858686	10.16232618	9.54243069	9.98243069	9.984247667	10.43333301	10.08483968	10.80575183	10.29668845	12.69159709	11.61932083	9.37218187	11.17177444
ANAPC11	10.18296603	10.6217126	10.5434842	10.38180788	10.40316747	10.32882547	10.32700668	9.79120276	10.01882252	9.683426884	9.963260841	10.52124408	10.16330955	10.15283791	9.461085185	9.777225603	9.73985564	9.904391226
RELB	9.59338727	9.799358298	10.47098906	9.577483344	10.04615313	10.2079186	9.961651402	10.5710297	10.43737041	10.02210625	10.77720731	9.93663109	9.622476938	10.34871484	10.46172799	10.21294807	10.10821165	10.39859716
CLF1	8.678763732	9.779239931	9.188626805	9.35776675	9.27320221	10.8603806	10.9636527	10.4887181	10.90174467	10.30307103	11.6093089	9.399972954	10.01173014	9.504719566	10.43081126	10.99171282	9.93488377	10.70698607
TMEM134	10.146485213	10.55606005	10.42481362	10.05789701	10.2911716	10.47086311	10.41083258	9.92346173	10.15832399	9.965884458	10.18607978	10.81819485	10.17678972	9.947859646	10.12337076	10.06226006	10.09616063	
PKNOX1	10.19293715	10.23754009	10.13561837	10.47311103	9.887577299	10.27139553	9.850618229	9.738352975	10.18693865	9.984247667	10.39510685	9.54373508	10.36674047	10.70473274	9.724050514	10.21890212	10.0303682	9.93892519
SGK1	8.89530117	9.834530095	10.22340311	9.37811475	9.60247175	10.02858686	10.16232618	9.54243069	9.98243069	9.984247667	10.43333301	10.08483968	10.80575183	10.29668845	12.69159709	11.		

VPS29	9.646380195	10.25180781	10.32779413	10.55986824	10.52935811	9.847068622	10.32025279	9.74929058	9.881996011	9.773051226	9.60772705	10.1780941	10.68399301	10.77416241	9.844743471	9.594260973	9.956757503	10.16836866
COQ10B	10.04863953	9.987056698	10.07526315	10.49692372	9.95726042	10.23022843	9.868395475	9.830425703	10.3553129	9.88122588	10.52721924	9.731627946	9.852414264	10.3488934	10.23585886	10.33717515	9.993712567	10.36738837
TUB8	10.30650029	10.3052642		10.0692567	10.0692567	9.841161016	9.998584664	10.04877494	10.18744412	9.97596654	10.2782521	9.701281751	10.58268382	10.29246601	9.89059094	9.57523349	10.09240029	
KIAA1551	10.27092967	9.554008685	10.07272705	10.28472865	9.524293268	9.58182369	10.40287529	10.01919327	10.31125052	10.00335122	10.47173367	10.05624438	9.92814679	9.893137198	10.10395891	9.895000794	9.871188439	10.59813177
CIS	10.16204866	10.16204866	10.16204866	10.16204866	10.16204866	10.16204866	10.16204866	10.16204866	10.16204866	10.16204866	10.16204866	10.16204866	10.16204866	10.16204866	10.16204866	10.16204866	10.16204866	10.16204866
CVH1	9.94537992	10.26402188	10.56634	10.38670691	10.26432168	10.04967411	10.28589055	10.86192087	10.1286057	9.931655494	10.10684876	9.97540531	10.89339941	9.970894951	9.99351154	10.06514717	10.31749535	
ZBTM20	10.1064652	10.54254512	10.31564259	10.33643613	10.4344472	10.0913527	9.74799055	9.966597123	10.17265465	10.23020171	10.134522	9.713218507	9.874273658	9.61263873	9.80483893	10.16742418	10.70621195	10.0198303
TE13	9.707644271	10.03307722	10.41028578	10.41028578	10.779903977	10.166178265	10.60823465	10.30059247	10.00893072	10.48797728	9.988514258	10.3398325	10.077772	9.94183039	10.43678477	9.93261935	9.698822984	
TMEM140	10.02854882	10.76799415	10.24101019	9.621521435	9.904705338	4.889933137	9.450331387	9.86126358	10.19340687	10.00931817	10.35401329	9.632033341	9.948244119	10.08223594	10.36940048	10.71440306	10.99931162	10.3432741
EFCB41A	11.0655506	10.58164568		9.326838266	9.399234772	9.072440044			9.999082374	9.5518493	10.03577588	10.9333199	9.804345849	9.781236469	10.03062862	10.65056772	10.55245324	
CCDC90B	10.17182072	10.57108509		10.42309942	10.18903648	9.991361793	9.467367532	10.04548891	9.828686248	9.785447429	10.52648826	10.47998806	10.49977806	9.47842832	10.47998806	9.981383171	9.988448847	9.9298202
CUL3	10.964907215	10.67501069		9.792623818	10.41024328	10.28591162	10.18478962	10.16126005	9.85404751	10.09984279	9.884472708	9.812494345	9.780511331	9.584376644	10.00976098	10.29892081	10.21014945	10.41195399
GSDM	10.751212654	10.55947877		9.996374162	10.12713431	9.836182332	10.51451675	10.0665802	10.0411789	10.14274166	9.99470782	9.826773993	9.79378499	9.896744493	9.544003172	10.39210078	10.31749535	
BAZ2B	10.068217122	10.2271065		9.594044026	10.00607623	10.33540646	9.838775434	10.10782472	10.05620525	9.822848413	9.944595551	9.646539921	9.87064761	10.35651342	9.58162022	10.253983	10.16320619	10.2563377
LM14A	10.5064	10.06255059		9.78147063	9.56969015	9.848230889	10.07326983	10.04293282	10.17082058	10.03423623	10.10876896	10.04370722	10.17389492	10.04047386	9.951436966	10.23078331	9.969664171	10.20304844
MST01	10.21195667	9.759674812		9.839121735	10.03226021	9.456161916	10.42175022	10.58153317	10.46557863	10.465162496	10.38681233	9.736438859	10.07175453	9.665597612	9.69197846	10.8427034	9.98546364	10.47482308
LVSMD3	10.25691914	10.31510947		10.05174124	10.05949601	9.760850991	9.307932357	9.919683673	9.745913074	10.1692853	9.736908271	10.24418376	9.794172588	9.168106981	10.1958373	10.18983885	10.0503249	9.93090437
UFL1	9.810925106	10.38249913		10.02100416	10.26834097	9.796105569	9.849724204	10.03822226	10.2634667	9.945133226	10.30992421	10.0676562	9.801299015	9.952371811	10.74042948	10.14841647	9.810711105	10.3275522
CCDC88B	9.367048517	9.432688848		9.86287236	9.615717348	9.427940739	10.50439387	10.31164804	10.4069856	10.00668412	8.750991609	10.35292046	10.48957167	10.42119955	9.439038885	10.72047036	10.09515163	
ALB3	9.855091123	9.854919905		10.48467947	10.53493263	10.30789092	9.835791774	10.01140235	9.801889754	10.2121642	10.53061983	10.21360535	10.08959171	9.72260093	9.898789005	9.818997923	9.911464355	
CG140A	9.927242594	10.12086112		9.869098989	9.774816992	10.15208623	10.3891754	9.952113037	10.10251285	10.9629767	9.50418008	10.38938039	9.21032166	9.135535527	9.874749342	10.2939886	10.17369394	
HINT2	10.43829581	10.166704		10.45088361	10.10078164	10.4602359	10.50147322	10.454003946	9.83199068	9.551784615	10.74443795	10.18911536	10.46098378	10.4967678	9.54037005	9.78268348	9.548335969	9.750021609
MLXIP	9.835200772	9.420691672		10.08285397	9.968341232	10.20232762	9.236229385	10.49984165	10.23070568	10.06000946	10.77935366	9.92534473	9.66838423	9.723630873	10.03864623	10.45849009	10.08195377	10.90235564
CVS61	9.710191101	10.15145623		9.708810213	10.0665133	10.54117131	10.42713406	10.02962999	9.998033392	10.06623735	10.16905336	10.18421343	9.467676623	10.77985474	10.2498684	9.860134064	9.853446762	9.627086786
STP1	9.873955726	10.27988818		10.43067085	10.15360007	10.13809959	10.0112354	9.52330511	9.964256214	10.1188973	9.935476322	10.20466084	9.298037132	9.927339805	10.52423466	10.08451886	9.859527596	10.24264631
PSM3C	10.20137541	10.55660034		10.20479622	9.97206619	10.03947827	9.96784312	9.950907981	9.847260455	9.91141604	9.987188893	10.42160247	10.28945594	10.37817206	9.530864765	9.91886837	9.988677907	10.04124819
WPB11	9.632506651	10.07500529		9.666188274	9.551573146	9.67788529	10.0184236	10.71995706	10.15153803	9.632633059	10.30879907	10.21653895	10.30262864	9.997706857	9.87048886	10.115400693	9.773125569	10.45531202
WBP11	10.13283787	10.13283787		10.13283787	10.13283787	10.13283787	10.13283787	10.13283787	10.13283787	10.13283787	10.13283787	10.13283787	10.13283787	10.13283787	10.13283787	10.13283787	10.13283787	10.13283787
VAMP2	10.78808775	10.1453827		10.34132723	10.0726226	9.896362491	10.2114839	10.30815368	9.725946957	10.11736835	9.697997662	9.57890536	10.96070354	10.35072112	10.47384712	10.96830012	10.10119193	9.792554414
CHK8	10.05837989	10.16604708		10.04328413	9.567208405	9.728584213	10.05879446	10.40147743	9.98259322	9.617397447	10.02788418	9.322254471	10.05723261	10.29364088	10.46334548	10.20255338	9.793543143	10.16969467
HGS	9.951969689	10.53241846		9.33215164	10.24047175	9.984148783	10.43382522	10.13340963	9.716304963	10.04436565	9.73162732	10.106997388	10.0392615	10.0210677	10.48980096	9.736952198	10.13200131	10.42014732
TMX2	9.779539436	10.02791352		10.14364907	10.38921755	10.05546265	10.23397149	9.657866025	10.11612347	9.972727833	9.954179245	10.12472514	9.469783011	10.17911356	9.969872191	9.814319792	9.906560227	10.06823349
PPP4C	10.11586375	10.06623802		10.1004686	9.94152029	10.2914393	10.07622552	9.607616739	9.756139098	9.72956288	9.820042916	10.00662205	10.1768093	10.6151879	9.625801729	9.711594574	9.602121688	10.3690329
TBC19	9.293786857	9.110881163		10.05747245	9.70078807	9.993852057	9.663088445	10.40303449	10.5171794	10.26585867	10.45640406	9.768813618	10.02462718	9.082145685	10.93009619	10.13006751	10.17852898	9.86026394
ADH2	10.07583652	10.35746532		9.946062196	10.35746532	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196
PCD6	10.909049848	10.59013031		9.580246514	10.43481207	10.49446447	10.43481207	9.658807354	9.994705583	9.805520771	9.757484927	10.15851976	10.06816026	9.90520974	9.584346476	9.914770746	10.08346362	
SLC25A32	9.97045466	9.99383658		10.2466136	10.47489927	10.67694242	10.04319426	10.42012588	10.03414114	10.07718323	9.96200716	10.71680608	9.949631197	10.44435639	10.57832838	10.02323646	9.547334535	9.806884344
SETD8	9.493762543	10.03848292		10.30524121	9.732334396	9.859864024	10.1710317	10.04475173	10.00450028	10.107473582	10.13600702	10.03179143	9.635415938	10.16530706	10.24371789	10.30021047	10.632646825	
LMF1	10.49977116	10.7752025		10.22829629	10.623379642	10.01055308	10.2335143	10.49533436	9.964803379	10.15319234	10.06516529	10.29681848	10.168333196	10.49647359	9.682542143	9.75845906	9.622700757	9.91772939
BTN2A2	10.88139707	10.46535329		10.04674631	9.99637831	9.834654986	10.05641627	10.25403331	10.07463651	9.84816485	10.23968453	9.826051542	9.938049707	10.08719572	10.47900345	9.940504534	10.04114054	
NCLN	10.11715014	10.13156687		9.5477623	9.474029832	10.16327561	9.790886869	10.058099	10.01623755	9.799958519	9.846313697	10.22540118	9.768279069	10.62098389	10.39975854	10.25722581	9.955911089	10.1704388
GBA	10.02564893	10.10451595		10.27447025	10.28620029	10.05691237	9.80242563	9.623718297	9.80342875	9.974030294	9.563627329	10.09652399	9.890573745	10.2978489	10.2679953	9.77489281	10.11254732	10.03480762
ADH2	10.07583652	10.35746532		9.946062196	10.35746532	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196	9.946062196
NEF13	9.731842975	10.03384292		10.03843234	10.42309965	10.11266053												

TMEM14B	9.81085579	10.08613446	10.26954932	10.38132632	10.28825632	10.44278733	10.00954596	9.442091638	9.81190108	9.43248588	9.992934584	10.18115596	10.20896362	10.27151689	9.355161794	9.817518802	9.624399139	9.855778415
CALM3	9.780556713	10.59610604	10.40538744	10.00123375	10.23277047	10.19229884	10.15176473	9.808678105	9.766479274	9.766479274	9.563060993	10.69624475	10.47441163	10.30752929	9.76393274	9.86333637	9.82432566	9.99891706
DNAC15	10.19648616	9.929585229	9.793478656	9.972509799	10.0766888	10.57049911	9.976515626	9.77903006	9.931684435	9.96135193	10.16110441	10.37469091	10.58315951	10.30205111	9.313469937	9.940666785	10.02329405	10.02720829
ANKRD11	10.52776495	10.81880526	9.657464921	9.573176828	9.828625055	9.890108784	9.296364615	10.00414669	10.00414669	10.32095264	10.11520523	9.23801705	9.78027208	9.624895419	10.43675956	10.25011688	9.994761219	10.1965037
BK1	10.02701296	10.37013276	10.185146299	9.60112304	10.13666286	10.15802651	9.526647638	9.89065335	9.89065335	9.80946335	9.05487906	9.968687435	10.62145944	10.20423099	9.94130663	9.817093357	9.900148701	9.900148701
SNAP47	9.707455961	10.4055991	10.48559663	10.11032777	10.11032777	10.11717747	10.651394665	10.08646585	10.08646585	9.800813055	9.991529635	10.33454506	10.20687389	10.00358081	9.450267991	9.691397904	9.792658778	9.30084469
SCNN1B	9.92010076	10.46280034	9.988743002	9.836827429	9.81666675	9.849704816	10.00625249	9.922507849	10.51130069	10.19182793	10.43055334	10.24580809	9.805434999	10.31675359	9.786556999	10.15456566	10.02962438	9.62196787
MTF3	10.2348848	10.2794288	10.4086974	10.1034938	10.2792448	10.0565413	10.065413	9.830076452	10.04609222	10.04609222	10.93654026	10.47061631	9.984378082	9.73730422	9.793948835	9.976696191	9.923368798	9.61068532
KANK1	10.72347729	10.10410233	9.993243393	10.72077185	9.790252438	9.846139528	10.44283115	9.91719448	10.40497666	9.825203009	10.37284797	9.759577073	9.163029716	10.96761612	10.00104218	10.07810938	9.64936486	9.870948289
CD1D	10.83286868	10.306213843	9.935090087	10.5375453	10.5703434	10.5703434	10.5703434	9.980466491	9.78082104	9.804966491	9.991412581	10.4001553	9.742382961	10.89450581	10.00172463	10.03837371	9.954872008	9.627550746
POLR2E	10.13627508	10.93835265	10.4744007	10.9345587	10.00418789	10.1243754	10.00418789	10.00418789	10.00418789	10.00418789	9.956651748	9.709419458	10.17074003	10.60530978	9.85372215	9.731803978	9.799002703	9.987520244
GP1	9.862982344	9.965863148	10.56731105	10.25909551	10.43137889	10.47359068	10.66670416	9.755039922	10.05087881	9.768880547	10.2094518	9.493879734	10.72565599	9.414320523	9.92025112	9.670077238	9.770054041	10.02464711
HEBP2	10.04248884	10.43851209	9.946815648	10.15077211	10.13450111	10.25737302	9.716572812	9.503991553	9.942560185	9.942560185	10.32233051	10.563642122	10.30341728	9.36632603	9.66040865	9.496135027	9.828785	9.828785
CNOT1	10.09706144	9.904513708	10.04557479	10.43605306	9.89421028	10.43993411	10.4143679	10.04088981	9.47285884	9.51221385	9.835254299	10.24381878	10.40432472	9.82419191	9.97744581	9.675950491	9.984327649	10.35216876
DAPP1	9.905417466	10.79559629	10.04869343	9.51032068	9.62240098	9.637036754	9.53652472	10.03980218	10.03980218	9.72605617	10.37604403	9.98551767	9.929750037	9.385710297	10.95078866	10.43132818	10.00175869	10.4465261
ATFH	10.2389708	9.965973959	10.32125534	10.26429235	10.5619788	9.412087076	10.00461806	9.892896649	10.20985336	9.691241778	9.89925885	10.06325848	10.23041904	9.877809231	9.751905303	10.31152545	9.98151256	9.69085867
ARL6P5	9.960041841	10.48945063	10.9432108	10.0916651	10.56913807	9.724228896	10.12908651	9.702427187	9.952866666	9.741725341	9.790246629	10.5359021	10.32345637	10.02594833	10.06355141	6.891435253	9.292456325	9.723132705
TBCA	10.08487456	10.06443495	10.12534517	10.43005109	10.04715504	10.06779247	10.2134875	9.269983217	9.807011007	9.41578783	9.83217713	10.29468756	9.937807105	10.28675367	9.986793679	9.543864228	9.537661309	9.347062179
GMFG	10.5825011	10.32843365	10.47405075	10.3644587	10.01641784	10.2849363	10.05152526	9.66137009	9.968411692	9.718293526	9.786455975	9.746646396	10.31041776	9.759093029	9.01050842	9.90516629	10.09498979	9.65226252
RNF123	10.06574965	7.351177349	9.903525684	9.380992586	9.73771884	9.74359376	10.34527053	10.38402700	10.866055242	10.5401194	9.290248462	9.01970581	9.411474468	10.01031913	10.50827259	10.07935157	10.32717703	10.61610685
EMO2	10.37329009	10.38125302	9.759569504	10.36901514	10.27388719	10.15199833	9.843368791	10.22836311	9.977107324	9.853907252	9.979139579	9.73627849	10.05057048	9.493008011	10.1039551	10.0760786	9.96293095	9.86239624
NUDT22	10.08452729	10.07895802	10.07895802	10.07895802	10.15517221	10.0579654	9.518677911	9.50792339	9.518677911	9.50792339	9.518677911	9.518677911	10.2975311	10.05049529	10.649572209	9.761102184	9.71419139	9.742087645
HIGH	10.4904253	10.10476866	10.27295074	9.914073484	10.10249704	9.980435185	9.905701142	10.42124599	9.751478823	10.16818258	10.24993302	9.956740011	9.839650429	9.662028772	10.00105906	9.726075509	9.59535704	9.59535704
MAP3K8	9.02846087	9.584403506	9.341851756	9.343746792	7.919182192	10.42080237	10.10810939	9.967464565	9.967464565	9.967464565	10.45913909	9.800656352	10.58818302	9.89555495	10.66738798	10.62487127	10.26063147	9.584575417
SPSB3	10.07563244	10.06774903	9.988991554	9.909624315	10.06774903	10.39974164	9.40172882	9.950840335	9.575275901	9.988899312	9.661508141	10.48633825	10.47322203	10.82238345	9.97146219	9.83290986	10.11287026	10.01715172
KCMF1	10.047932819	10.78054078	10.00646529	10.08379055	9.97246366	10.3097218	10.14746788	9.91859738	9.98893122	10.0202036	9.688031624	10.52546903	9.295893964	9.474245828	9.90127627	9.515287923	9.817336027	9.75648924
NMIE1	9.405391409	10.25528756	9.894122667	9.847808408	10.06362968	9.95977949	10.4524164	10.02927267	9.97318175	9.698488882	10.5263114	10.63761599	10.01050869	10.52763217	9.928076255	9.97153677	10.01981407	9.51466824
SLC30A2	9.75689309	9.53781959	9.75689309	9.75689309	9.75689309	9.75689309	9.75689309	9.75689309	9.75689309	9.75689309	9.75689309	9.75689309	9.75689309	9.75689309	9.75689309	9.75689309	9.75689309	9.75689309
MTCH1	9.982732447	10.22899815	10.26480301	10.33867021	9.566174918	10.2488647	9.470481101	10.11324317	10.10320954	9.828772231	10.16710856	9.705070767	9.983396939	9.680341644	10.30955227	9.516818079	9.89490281	10.07497838
CKN6	9.884506641	10.26566042	9.415582274	10.2791703	10.47851057	9.714601505	10.723181209	10.38940011	9.723181209	10.1351485	10.38355159	9.736484571	9.740996211	9.638761227	10.3435634	9.97233175	10.24475728	10.14498909
RDX	9.795240885	10.29744266	9.717032945	9.951111623	9.67334937	10.668214	9.547811657	10.17172863	10.13459751	10.06272715	10.0251524	9.71805975	10.50208297	9.89086498	9.431275994	10.01211742	10.0666235	9.79663306
MYO1C	10.00273903	10.12275752	9.198134331	9.995874356	9.709956235	9.81890687	9.58062853	9.3698531	10.68741677	10.2996268	9.01123514	9.615340548	9.654761821	10.35639961	10.22233857	10.42415106	9.996911951	9.996911951
QSOX1	10.09506115	10.2142933	9.945499638	10.04965961	10.12678645	10.1033365	9.766183504	9.934504884	9.934240366	9.823439849	9.872772971	9.622208844	10.00965345	10.38742632	10.35973750	10.07893694	9.80713882	9.80017176
PNK2	10.12736907	10.40214169	9.935222557	9.995426567	9.995426567	9.995426567	9.995426567	9.995426567	9.995426567	9.995426567	9.995426567	9.995426567	9.995426567	9.995426567	9.995426567	9.995426567	9.995426567	9.995426567
SYNRG	10.4174249	9.442414917	9.4961727	9.860930856	10.2278907	10.2320921	9.80722282	9.840566619	9.74570664	9.74764375	9.4764375	9.26886732	9.816887021	9.97786567	9.97601291	10.42229213	10.52029888	10.2281745
PMSE3	10.10549749	10.1132349	10.18960426	10.542156849	10.3241366	10.30418502	9.908064703	9.65965705	9.65965705	9.65965705	9.65965705	9.65965705	9.65965705	9.65965705	9.65965705	9.65965705	9.65965705	9.65965705
Clc6f07C	10.2993181	9.668151703	9.563441879	9.845786119	9.617909257	9.85753783	10.03379186	10.53405474	10.6301539	9.912917488	10.75214048	9.605965628	9.48122176	10.1758601	10.48508153	10.3807291	9.90712338	10.15720088
EMOX2	10.23961705	10.19335931	9.727417574	9.991116263	9.727417574	10.36402487	1.899515011	9.254426324	9.254426324	9.254426324	9.254426324	9.254426324	9.254426324	9.254426324	9.254426324	9.254426324	9.254426324	9.254426324
PMSE1D3	10.01487892	10.91453276	9.830856285	10.17182078	10.52825305	10.16471948	10.5883251	9.722731311	10.0515801	9.848948976	10.3735323	10.58682523	10.60968127	9.885594388	10.91259685	9.66305809	9.93494298	9.93494298
CREB1	10.07205579	9.99646704	10.6488015	10.18398802	9.95265303	9.423740124	10.05837967	9.765940182	10.2652387	9.696202283	10.33603373	10.48373285	9.848959787	9.826800393	9.56605934	10.11263787	9.704718716	9.75884527
HEBP2	9.83129249	9.36925928	9.53781959	9.36925928	9.36925928	9.36925928	9.36925928	9.36925928	9.36925928	9.36925928	9.36925928	9.36925928	9.36925928	9.36925928	9.36925928	9.36925928	9.36925928	9.36925928
ATG3	10.51336356	10.62530162	9.95829745	10.53027208	10.3390093	10.2677064	9.665948343	10.11388305	9.85344612	9.942890871	10.52473836	9.990526277	9.919633562					

CTH4	10.01007446	10.37717805	9.994719243	9.672237007	9.515915896	9.438966141	9.261090743	9.135066643	9.76389728	10.01014212	9.738180556	9.636675449	9.917388908	10.17968265	9.954831832	9.969351642	10.07876719	9.822595314	
UBL7	9.273628455	10.08555988	9.933258661	10.10512677	10.6029825	10.13925801	10.14658144	10.14658144	9.78604138	10.08450117	9.93478068	9.936931787	10.2547906	9.764366214	10.08632873	9.412481073	9.899162596	9.767786317	9.806686979
NC04	10.15493526	9.255376789	9.679117673	10.07374956	10.33127914	10.32693981	10.32693981	9.667019937	10.04858409	9.716510609	10.23860048	10.04331196	8.326999323	9.275519428	9.802162024	10.01418475	9.854760136	10.59726748	9.9726748
LMF2	9.919938827	9.813462271	10.08692418	9.83122592	9.822471879	10.27262727	9.734461737	9.851986592	9.980993231	10.010919523	9.963658594	10.00291864	10.38260829	9.945530541	9.988442717	9.61952284	9.843030439	9.72484886	9.934030439
RLC3	9.934064969	9.934064969	9.934064969	9.74041318	9.7324282	9.7324282	9.7324282	9.7324282	9.7324282	9.7324282	9.7324282	9.7324282	9.7324282	9.7324282	9.7324282	9.7324282	9.7324282	9.7324282	9.7324282
BR3	9.903138185	9.027611024	9.027611024	9.43882566	9.882131372	9.882131372	9.882131372	9.882131372	9.882131372	9.882131372	9.882131372	9.882131372	9.882131372	9.882131372	9.882131372	9.882131372	9.882131372	9.882131372	9.882131372
HPCL1	9.800218408	9.90754607	9.611943919	10.04279534	10.28417118	9.962066849	10.28067072	9.953182101	10.21535829	9.97003562	9.879065477	10.23240002	9.903192914	10.61578807	9.785530891	9.853008845	9.791228744	9.58181154	9.8181154
ZMFZ2	10.39354804	9.91175817	10.5848544	9.98566022	9.9742865	10.28458076	10.01192279	10.17554817	10.43686022	10.05579032	10.33588995	10.08462523	9.798182678	9.601597249	9.834129728	9.458581932	9.888657893	9.888657893	9.888657893
KHLZ24	9.88886735	9.66819622	10.36256832	9.752106155	9.931468305	10.11395446	9.2606252	9.906508891	10.0772691	9.932399882	10.23232432	9.210345583	10.394529	10.875403213	10.16534751	9.928092935	9.93142117	9.94753113	9.94753113
YYLAF1	9.399415096	10.14563114	9.972796544	10.14563114	9.972796544	10.14563114	9.972796544	10.14563114	9.972796544	10.14563114	9.972796544	10.14563114	9.972796544	10.14563114	9.972796544	10.14563114	9.972796544	10.14563114	10.14563114
CFB8	9.5375127	10.07603656	9.806076586	9.92409795	10.18245656	9.90947508	9.708101555	9.669648146	9.848128716	10.0975713	10.18502338	9.201829478	9.533980227	10.138331278	10.09965432	9.963901225	9.963901225	10.14117866	9.963901225
VTI8	10.0166229	9.696657958	9.902048798	10.23945245	10.01245656	9.63052303	9.936596478	9.545250154	9.95655827	10.00408886	9.957005184	10.0613699	10.15258954	9.987609179	9.829204504	9.658692355	9.918716004	9.918716004	9.918716004
PTFC	9.931078684	8.23003273	9.606431559	9.78798026	9.74154396	9.76993352	10.14074294	9.92155155	9.82689559	9.54456777	10.43254515	10.93220273	10.98359017	10.61132365	10.28698174	10.24535015	10.24535015	10.24535015	10.24535015
RAB11FP1	9.352028363	8.8056498	9.08194242	10.38540357	9.88062631	10.2098024	10.16177616	10.51223846	10.33116066	9.860009985	10.79374851	9.192528507	9.959086565	9.05046844	10.42195271	10.4008221	9.893250999	10.15477634	9.893250999
PLEKH3	9.984560153	9.442314024	10.13356248	9.88151388	10.34812435	9.68855868	10.12750347	10.11774361	9.680788129	10.080119	9.840071868	9.763844548	9.387790197	9.97007035	10.22813299	9.57173514	9.57173514	9.57173514	9.57173514
TOMM20	10.1054557	9.58534804	10.24297944	9.889828702	9.779706824	10.28212144	9.674178429	10.04838098	9.891290647	10.08699305	9.45232665	9.965798431	9.83432381	9.957981622	9.495624433	9.641024262	9.881080557	10.021865	9.881080557
COQ8A	10.37863287	10.37863287	10.37863287	10.39943406	10.49612829	10.39943406	10.49612829	10.39943406	10.49612829	10.39943406	10.49612829	10.39943406	10.49612829	10.39943406	10.49612829	10.39943406	10.49612829	10.39943406	10.49612829
EXOC7	10.59000860	10.59000860	9.856077006	9.856077006	9.856077006	9.856077006	9.856077006	9.856077006	9.856077006	9.856077006	9.856077006	9.856077006	9.856077006	9.856077006	9.856077006	9.856077006	9.856077006	9.856077006	9.856077006
FNBP4	9.019274801	9.299358006	9.490507893	9.920221103	8.82291304	9.397368773	9.24213114	10.34031788	9.652122178	10.44894644	9.942726502	8.840039336	10.10588367	10.24683229	10.55137041	10.20478025	10.25679327	10.25679327	10.25679327
ERCI	9.810085314	10.13694725	9.638562807	9.855904072	10.0125625	9.57362849	10.09286518	10.361053	9.910115242	9.910115242	10.0610951	8.984493999	9.98049038	9.850907198	10.14697507	9.647744777	9.41392525	9.795730762	9.795730762
NDFZ4	9.711867573	10.28517487	10.02289877	9.960911532	10.00360746	10.40481439	10.08369996	9.552041929	9.643353221	9.609772384	9.955531534	8.896143185	9.541069898	9.40727875	9.568070561	9.870661225	10.04829943	10.04829943	10.04829943
QRDL	9.860039875	9.950659025	10.2648108	9.938377448	10.58725155	10.1200616	10.01501187	9.958169042	9.908566564	9.901134335	9.884512128	10.2689992	9.705721912	9.638905958	9.547297402	10.03506363	10.03506363	10.03506363	10.03506363
KIA03F8	9.53440089	9.434764158	9.587321116	1.958428066	10.592920872	9.735424743	10.23778813	10.10529307	9.878080513	9.927931855	10.11308799	9.91124096	10.26620108	10.04202336	9.982004015	10.14093980	10.16485583	9.78450894	9.78450894
NDFB8	9.907892864	9.25285854	10.0046597	9.99997845	9.733678255	9.891913593	9.58965247	9.726838188	10.10493205	10.22069265	9.726838188	10.10493205	10.22069265	9.726838188	10.10493205	10.22069265	9.726838188	10.10493205	10.10493205
NDFB2	10.13897078	10.43711806	9.952071092	9.886570192	9.87620223	10.34006105	10.17803005	9.748549183	9.47430906	9.271530602	9.790032027	10.24376005	9.870941391	10.16253346	9.383650368	9.52417302	9.293117432	10.00473182	10.00473182
PSEN8	9.68650237	10.60607843	9.906720252	10.14233416	10.41816223	10.3061034	10.08964505	9.928761515	9.89622211	9.77492454	9.974274299	10.42206615	10.26977964	9.898583541	9.596895858	9.857572963	9.73829773	9.85714857	9.85714857
JMUD12	9.710137493	8.66777379	10.27993993	10.07173711	10.28891029	10.12659769	9.163965288	10.60712654	9.488235246	10.08329027	9.93071227	10.14426849	9.850852515	9.706940271	10.14943769	9.728231982	9.904646425	10.20264444	10.20264444
PKV9	9.35640964	9.35640964	9.35640964	9.35640964	9.35640964	9.35640964	9.35640964	9.35640964	9.35640964	9.35640964	9.35640964	9.35640964	9.35640964	9.35640964	9.35640964	9.35640964	9.35640964	9.35640964	9.35640964
POMGNT1	10.12944189	9.77241849	9.35840692	10.22944189	10.1541406	10.1882389	9.66068319	10.10715359	9.950581277	9.753873439	9.83158413	10.0154423	10.83158413	9.907926702	9.414930202	10.13329448	9.952584131	9.952584131	9.952584131
TALD01	10.35655092	10.73636378	10.96655139	10.1659351	10.5898931	9.840795428	10.13430825	9.68064339	10.01394143	9.69824406	10.96834096	10.1289259	9.676376744	8.67215886	9.4131347	9.779590788	9.627441031	9.859719067	9.859719067
FLOT1	9.91236813	10.25576569	9.842287298	10.04815105	10.23759604	10.03887844	9.831380534	9.942993414	9.831380534	9.942993414	9.831380534	9.942993414	9.831380534	9.942993414	9.831380534	9.942993414	9.831380534	9.942993414	9.942993414
APOL1	9.950191178	10.20128816	10.54040369	9.635061358	10.0875424	9.784071223	9.797021478	10.403995714	9.985154898	9.77597814	9.942993414	9.985154898	10.14193801	10.51698876	9.16158859	9.552451985	9.88304706	9.610230841	9.610230841
RARS2	9.546537108	9.741323003	9.813965098	9.98707367	10.2041553	9.54807409	9.6046883	9.68604963	9.934619555	10.10253414	9.806207652	9.896029702	9.882433165	10.60259008	9.928466084	10.14620711	10.24275509	10.00730141	10.00730141
BNP13	9.34777705	10.50786979	10.10239968	10.35589938	10.06187723	9.862359343	9.672433166	9.903802438	9.651309875	9.867813312	9.918442466	9.784141231	10.55891532	10.6353272	10.139913463	9.82340045	9.47723178	9.79325816	9.79325816
PIF5	9.46510076	10.46510076	10.46510076	10.46510076	10.46510076	10.46510076	10.46510076	10.46510076	10.46510076	10.46510076	10.46510076	10.46510076	10.46510076	10.46510076	10.46510076	10.46510076	10.46510076	10.46510076	10.46510076
PIEZ1	10.363997889	9.676310258	9.488743008	9.119474571	10.428031756	10.576076418	10.46579508	10.468073974	9.54697312	9.18994508	9.488743008	9.676310258	9.488743008	9.119474571	10.428031756	10.576076418	10.46579508	10.468073974	9.54697312
USP10	10.15801566	9.24970749	9.50734078	9.410268508	10.32858692	9.325486412	10.4705958	9.847039228	10.0550471	9.903023807	10.08065378	9.981089526	9.722212895	9.59129226	9.913216893	10.19531279	9.813800904	10.07145885	10.07145885
ZSMPTZ4	9.266135118	10.04883423	10.09913876	10.03655017	9.993655321	10.0022605	9.665645118	10.669409198	10.735037675	9.5521364	10.14528249	10.45396731	9.95426172	10.5975825	9.909552119	9.60124944	9.14989294	9.59582805	9.59582805
FAAH2	9.617692162	9.370231342	10.64262835	9.326653256	10.26421966	10.17181639	10.60037239	9.909739087	10.20645038	10.02637787	9.90425595	9.648649306	11.16448629	9.976811461	9.860492376	9.776540115	9.682948906	9.54448572	9.54448572
ARIH1	9.153535367	9.9012095	9.87388439	9.81180939	10.57250145	10.71332216	9.905405832	10.35610287	9.905405832	10.35610287	9.905405832</								

TOR1AIP1	9.672213876	9.834239388	8.828504257	11.1836643	10.2629228	6.98298745	9.829450967	10.2629132	10.2490809	9.65262646	10.1274895	10.06981	9.564978449	9.291861335	10.47605374	10.12940059	9.806211908	9.778080165
SCAPER	9.367520218	9.797246668	9.412449005	10.4300621	9.88241304	9.514680317	9.99032526	9.957145992	9.769578612	10.27157163	9.704200133	9.954883262	10.07212579	8.799013543	9.403725152	10.1412084	10.15718807	9.980493457
ASNS	10.009741227	10.06376911	9.71584301	9.904929527	9.537565104	10.08855345	9.248480975	9.90761407	9.545038161	9.808761541	10.24727297	9.499756244	9.767407399	9.369053525	9.851620059	9.758140807	9.990515402	9.995154002
RHOH	9.600607099	9.777213176	9.800110636	9.465388305	9.424642971	9.847846132	9.910430987	9.552070301	9.855390435	10.0441161	9.3456594	9.79330097	9.811971343	9.241515895	9.877273032	9.27832076	10.15007344	9.296700086
C14orf1	10.0075440	10.17242369	9.94012651	9.94012651	9.83372561	9.794812651	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596
NFKB1	10.03321887	9.72828767	9.87373883	9.859298489	10.08607473	9.862544248	10.659207609	10.35730461	9.855368541	9.9625422	9.99552948	9.850535019	9.348238553	9.477447216	9.426564266	9.78306919	10.08983272	9.29267076
FAM56A	9.782552168	9.879525097	9.951169726	9.836649231	9.979210418	9.834558817	10.22348335	9.626111125	9.804283602	9.414571432	9.887808388	10.0538555	9.606169118	9.866591918	9.238236661	9.65505138	9.52014139	9.820437572
ASH1L	9.524848766	10.94744372	8.300594533	9.524848766	10.20530662	9.57789356	9.57789356	9.689157158	10.20207701	9.378438583	9.087171564	10.36195635	10.42868856	9.923719376	10.48602881	10.05772484	9.915888185	9.949778832
IRF2BP2	10.10234109	10.17637615	9.7993004	9.804819926	9.526707834	10.32574572	9.945634005	10.33057277	9.835155583	9.501967499	9.717060444	9.274877386	10.18491539	9.68798125	10.48765519	9.813410717	9.324028823	9.395324249
APOL6	8.865699882	9.472105079	9.478440667	9.478440667	9.408654864	9.529819684	9.529819684	9.529819684	9.529819684	9.529819684	9.529819684	9.529819684	9.529819684	9.529819684	9.529819684	9.529819684	9.529819684	9.529819684
C14orf2	10.93841266	10.14678182	10.14678182	10.25021887	9.680901871	10.04639891	9.680901871	9.680901871	9.680901871	9.680901871	9.680901871	9.680901871	9.680901871	9.680901871	9.680901871	9.680901871	9.680901871	9.680901871
RAB18	9.586608414	10.00640082	9.825045477	9.744906442	9.844995676	9.954148756	10.15115313	9.675630259	9.80019713	9.730627993	9.550570781	9.833468608	10.3154183	10.04873818	9.822902887	9.766648567	9.602831948	9.497772832
TMEM98	10.07779767	10.04473179	9.933437556	9.964265291	9.790125176	10.32853204	9.333730042	9.26327248	9.514747924	9.69690003	10.4289866	10.44072777	9.652116665	9.605219366	9.20015467	9.933196347	9.62396347	9.62396347
GBA2	9.880399399	9.819059457	9.959031314	9.936295474	8.86417197	9.702490646	9.82750638	10.5327505	9.594658852	10.07124357	9.63516504	10.19856784	9.720484561	9.745922575	10.83493829	9.653482488	10.38021011	10.65828118
YIP4	10.00585888	9.273520975	10.0725844	9.273520975	9.932412906	9.409360111	9.989032319	9.887934869	10.10145367	9.91972101	9.88793827	9.823432327	9.469287153	9.375347081	9.562145134	10.16947676	9.821099888	9.732787578
HIF1A	8.600207129	10.52705063	9.993843826	9.558216243	9.534206413	9.632813862	10.58570749	10.20122627	9.954767802	9.809851202	10.09986609	9.833973899	9.225110402	9.338573862	10.24374404	9.99341019	9.51933883	9.614769603
UNC13D	9.851291955	9.29240854	9.656599168	9.34663199	9.830897201	9.712632944	9.782920862	9.874746362	10.08205501	9.81189583	10.27895418	8.674694816	9.533232523	9.945282889	9.836248139	10.17945143	9.554187044	9.554187044
DCRC	10.12724266	10.2692519	9.9026084	10.36490165	9.82660495	10.20448727	9.82660495	9.85829776	9.74474269	9.75657698	9.549283083	9.855844549	10.4784378	9.618384215	9.339307621	9.763239301	9.703642425	9.703642425
NDUFA9	9.486957876	10.2860204	10.1735995	10.03941959	10.2737859	10.24756127	9.929295886	9.508171046	9.738750885	9.349820147	9.747069562	9.93128562	10.07130829	9.317451891	9.587976538	9.535996412	10.0961933	10.06749934
UNC93B	10.30631406	10.68304911	10.5166672	10.20232622	10.58743855	9.82459337	10.422258	9.51946901	9.734387133	9.562212421	9.657897234	9.707394974	10.24261399	10.10224495	9.485318503	9.653453062	9.532567447	9.815749427
CDK4	10.11584807	10.36501074	9.92019042	9.62019042	10.41127676	9.950511376	9.848607656	9.848607656	9.848607656	9.848607656	9.848607656	9.848607656	9.848607656	9.848607656	9.848607656	9.848607656	9.848607656	9.848607656
PTGES2	10.28324518	9.73791086	9.91862419	10.1003219	9.80972796	9.5348357	9.828426505	9.5348357	9.5348357	9.5348357	9.5348357	9.5348357	9.5348357	9.5348357	9.5348357	9.5348357	9.5348357	9.5348357
NOZL2	9.77685495	9.824191892	9.935487604	10.35489846	10.04250244	10.26763578	9.946828162	9.796313242	9.778036215	9.94803161	9.755421878	10.26987901	8.867942731	9.802350017	9.891335211	9.748832226	9.805436385	9.810543622
KOM5A	9.938453019	9.60847589	9.97199657	10.2679102	10.3319243	9.532438179	9.787957975	9.648624101	9.845639069	9.380557165	10.04853228	10.85827872	9.729478046	9.678319929	10.13963762	9.753371719	9.91296376	9.753371719
SNRPD1	9.823259084	10.26741705	9.654396148	9.997414085	10.03374386	10.10476789	9.892242485	9.140466659	9.456450944	9.10409704	9.488193906	10.48525004	10.02461542	9.917683799	9.156604891	9.410418927	9.187104687	9.811199282
MAPK13	10.20099474	10.10285838	10.04463544	10.11288905	9.84733539	9.795184579	9.836792983	9.604522004	9.604716899	9.465563318	9.98673581	9.605290078	9.676152112	10.44239835	9.584474354	9.608499976	9.368781797	9.935925967
ARGF2F	9.388063265	9.767944838	9.308254215	8.846917238	10.03864305	9.833713971	9.760538674	9.861955599	10.27484478	10.36754952	10.2827743	9.10769716	9.065790152	10.25077807	9.514068811	10.12856372	10.16567723	9.52572857
TMEM22	10.0075440	10.17242369	9.94012651	9.94012651	9.83372561	9.794812651	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596
ELAVL1	10.05134761	9.86992905	9.95612152	10.05134761	9.86992905	9.95612152	10.05134761	9.86992905	9.95612152	10.05134761	9.86992905	9.95612152	10.05134761	9.86992905	9.95612152	10.05134761	9.86992905	9.95612152
IL2RA1	9.095369537	9.738822636	10.15915612	9.460779094	9.896551524	10.03828488	9.089205846	9.87353244	9.837603792	9.527078853	10.08236509	8.53546956	10.55295819	10.59571027	9.987956757	9.785230814	9.467571104	9.652550219
NDUFA12	9.717125734	9.980462669	9.980462669	9.460779094	9.896551524	10.03828488	9.089205846	9.87353244	9.837603792	9.527078853	10.08236509	8.53546956	10.55295819	10.59571027	9.987956757	9.785230814	9.467571104	9.652550219
ANKRD36	9.741619234	9.348318174	9.848757077	9.569458722	9.959881053	9.579417075	9.704562539	10.63808468	9.810063481	10.4806897	10.12874512	9.004234169	9.80714585	10.44657656	10.8470328	10.45925304	10.64352611	10.26537907
C12orf59	10.05423694	10.1651267	9.517308099	10.22436202	9.564552523	9.37620247	9.767174562	9.295101011	9.47110939	9.767378729	10.38490263	10.74473218	9.740330162	10.02626924	9.848108674	9.81063521	9.785997289	9.785997289
ARHGAP15	9.819028873	10.037612029	9.999929981	9.485417381	10.18172301	9.79618352	10.0931084	9.53726672	9.699215001	9.160426194	9.364222448	9.93179321	10.09206738	10.68350277	9.641093132	9.839497607	9.589471637	9.600665781
TMEM22	10.0075440	10.17242369	9.94012651	9.94012651	9.83372561	9.794812651	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596	9.854166596
COX7B	9.734943819	10.05466022	10.12807816	10.12807816	10.05466022	10.12807816	10.05466022	10.12807816	10.05466022	10.12807816	10.05466022	10.12807816	10.05466022	10.12807816	10.05466022	10.12807816	10.05466022	10.12807816
SACM1L	9.756062173	9.603718418	9.893526886	10.3437412	9.515540661	10.13284903	9.934899197	9.635893518	9.714939066	9.760594331	9.673605543	9.964695476	9.335911328	10.52703505	9.386656469	9.887862335	9.87471464	9.847498427
QARS	10.01296368	10.01537792	9.639061964	9.410166278	9.885673426	9.799922823	9.805804268	10.0379756	9.608313388	9.772443173	9.939918759	9.85561789	9.283526297	9.399501303	9.776647212	9.69587268	9.847923842	9.99543754
JMID8	9.821140248	10.01505569	9.432128247	10.05635401	10.40283266	9.986981607	10.22857516	9.593957363	9.783813628	9.504988906	9.697172884	10.02868184	10.10264283	9.60948854	9.531020947	9.849600078	9.336272981	9.429982228
ACTR10	9.856811374	10.02903813	9.079162017	10.02903813	9.079162017	10.02903813	9.079162017	10.02903813	9.079162017	10.02903813	9.079162017	10.02903813	9.079162017	10.02903813	9.079162017	10.02903813	9.079162017	10.02903813
ANKK2	9.95903374	10.42599336	10.42599336	9.77720118	9.751595186	9.823993266	9.823993266	9.769930759	9.59938826	9.626165422	10.01323553	9.324607369	10.30804116	10.40851271	10.11731845	10.14042695	9.67236300	10.05504314
FLNA	9.994503453	10.1621359	9.405758933	9.1211639	9.045512482	9.624391462	9.66645598	10.7164522	9.782593483</									

PUM1	8.931619166	9.648953387	9.176033768	9.613707786	9.78669986	9.61271782	9.693126158	9.946256836	10.20257784	10.18118229	10.10064167	9.675354325	9.566245599	9.741318637	9.903293782	10.34840425	9.94922622	9.956749993
CDK14	9.259498436	10.79486892	9.945388774	10.11255168	9.315551694	9.859070424	9.690923842	10.0709263	9.512256517	9.46554794	9.774026236	9.802083964	9.57346867	9.80627753	9.998297183	9.158834388	9.752458378	9.776734226
LMP	9.775780876	10.23300772	9.531243579	9.624571174	9.861260491	9.862670884	9.43759967	9.04527199	9.52894267	9.26501682	9.740192074	9.750066699	9.095131705	9.853180188	9.950858761	9.102890929	9.814068384	9.528615215
NMBP121	10.38093614	9.524857143	10.72038284	9.914329109	10.16614913	9.475801952	9.574302343	9.52082894	9.737032696	9.60453196	10.44616868	10.00776319	9.72097379	9.375949614	9.788064348	10.07722926	9.887736444	9.887736444
USM	9.385770864	9.465710711	9.078909017	9.064320318	9.45454508	9.30414096	9.822628288	9.67546696	9.70953224	9.956159628	9.370873508	10.453525456	9.80146151	10.07057471	9.896546089	9.370873508	9.896546089	9.370873508
SNK27	10.00362128	10.0095805	9.120673643	9.120673643	9.91743515	9.91743515	9.91743515	9.867727786	9.867727786	9.867727786	9.867727786	9.867727786	9.867727786	9.867727786	9.867727786	9.867727786	9.867727786	9.867727786
UBE2Q2	9.073755373	9.650363662	9.837843077	9.948331266	10.14433209	9.70486135	9.05625501	10.01947047	9.719159057	9.848193885	9.95120888	9.753007708	9.35858017	9.819522896	9.75233742	9.698629514	9.587781394	9.818319817
ATG101	10.10109586	9.650994962	9.099395616	9.243890353	9.539165129	9.956584583	10.11341345	9.756662826	9.861622541	9.938400752	9.989119379	10.58510845	9.627500046	9.706796035	9.766280794	9.424886669	9.424886669	9.424886669
LY96	9.808676894	9.98384569	9.986675774	9.500094943	10.06512142	10.18271201	10.25414028	9.377714697	9.588961838	9.033088074	9.587033827	10.03175134	10.04140137	9.389951909	9.484594075	9.59530265	9.714133977	9.603182167
RAD17	10.09427175	9.537542409	9.537542409	9.537542409	9.537542409	9.537542409	9.537542409	9.537542409	9.537542409	9.537542409	9.537542409	9.537542409	9.537542409	9.537542409	9.537542409	9.537542409	9.537542409	9.537542409
PSMD12	9.96992483	9.740640907	9.578265841	10.10223983	10.20419826	10.00768483	9.762132089	9.762132089	9.762132089	9.762132089	9.762132089	9.762132089	9.762132089	9.762132089	9.762132089	9.762132089	9.762132089	9.762132089
ATPV16F	9.507771889	9.82202286	9.625015875	9.825015875	9.825015875	9.825015875	9.825015875	9.825015875	9.825015875	9.825015875	9.825015875	9.825015875	9.825015875	9.825015875	9.825015875	9.825015875	9.825015875	9.825015875
ET1	9.633139644	9.743336013	10.13079718	9.3281235	9.50452721	9.411787594	10.00220487	9.59664206	9.59664206	9.59664206	9.59664206	9.59664206	9.59664206	9.59664206	9.59664206	9.59664206	9.59664206	9.59664206
DNT1P2	8.823706095	10.13623731	9.3902432	9.62165827	9.90255975	9.905740044	10.0340573	9.546394491	9.760705203	9.482586091	9.413120703	9.75534771	10.4201845	10.08984763	10.0186008	9.94583951	9.47899222	9.756791973
ERIN	10.08941134	10.07675494	9.590690356	10.19999135	9.396524158	9.790722688	9.689987709	9.689987709	9.689987709	9.689987709	9.689987709	9.689987709	9.689987709	9.689987709	9.689987709	9.689987709	9.689987709	9.689987709
LAMTOR5	9.739966757	10.26128247	9.774586883	9.892770423	9.96780941	9.9118513	10.00904303	9.453235348	9.937543018	9.431693229	9.624874913	9.638538228	10.42836228	10.04482817	9.19724284	9.373410592	9.49594952	9.729757273
DCP1A	9.393120464	10.32445717	9.824902769	10.11294816	10.1208982	9.8562669594	9.780006667	9.73630451	9.432209075	9.617450151	9.83444193	9.906068829	9.176979454	9.422240303	9.73361508	9.936146859	9.438864654	9.842175897
BGAL17	9.780181119	9.720371168	9.720371168	9.720371168	9.720371168	9.720371168	9.720371168	9.720371168	9.720371168	9.720371168	9.720371168	9.720371168	9.720371168	9.720371168	9.720371168	9.720371168	9.720371168	9.720371168
SMARCD2	10.23818309	10.25237965	10.26589427	9.993648565	10.18513929	9.91538966	9.997380697	9.452575261	9.583977619	9.596307298	9.376644203	10.00400022	10.02628896	9.563547616	9.458515607	9.563429686	9.501571122	9.459770063
ZNF24	10.02502349	9.549612867	9.707396233	10.25515882	9.963794898	9.775739662	9.889488356	9.752007397	9.734500638	9.752590767	9.579962036	10.1108025	9.282044448	9.705423504	10.289199	9.562473429	9.758467085	9.758467085
ALG1	10.21762473	10.48232469	9.71814823	9.588414659	10.16841529	9.860789068	9.760534225	9.760534225	9.760534225	9.760534225	9.760534225	9.760534225	9.760534225	9.760534225	9.760534225	9.760534225	9.760534225	9.760534225
NFLC1	9.64665919	10.24571423	10.54956909	10.55953959	9.893024558	9.695470007	9.98509081	9.700240024	9.65393217	9.65393217	9.65393217	9.65393217	9.65393217	9.65393217	9.65393217	9.65393217	9.65393217	9.65393217
TSY11	9.63059583	10.02710459	9.255242587	10.16452182	10.29594243	9.66643756	9.691569043	9.500052452	9.98029298	9.406313806	9.986118696	9.816983997	10.36190581	10.00227835	9.385846998	10.09892499	9.495750768	9.67975223
STX5	10.09904159	10.1847292	9.857071632	9.915360524	10.06482585	9.874248734	9.597254086	9.247848358	9.90078479	9.569412984	10.07468664	10.20995565	9.397073094	10.20995565	9.397073094	9.563225252	9.10569883	9.10569883
CLK4	9.784278197	9.576365559	9.497896558	9.854077216	9.750995841	10.08714687	9.888724336	9.655161357	9.964565532	9.738964489	9.58471486	9.402747744	9.756240689	9.793767141	9.876084172	9.818697922	9.665712992	9.58986282
FIS1	10.13086022	9.804284946	10.17929704	10.17929704	10.17929704	10.17929704	10.17929704	10.17929704	10.17929704	10.17929704	10.17929704	10.17929704	10.17929704	10.17929704	10.17929704	10.17929704	10.17929704	10.17929704
NRAS	10.41863335	9.95638123	9.747169971	10.14975403	9.71203087	9.408479421	10.20728915	9.927496835	10.41700341	9.687175509	10.15830054	9.661354444	8.286669696	9.906717941	10.07073191	9.74987284	9.641165085	9.752147047
USP1	9.32229264	9.465710711	9.465710711	9.465710711	9.465710711	9.465710711	9.465710711	9.465710711	9.465710711	9.465710711	9.465710711	9.465710711	9.465710711	9.465710711	9.465710711	9.465710711	9.465710711	9.465710711
RNASEH2B	9.609991343	10.2496833	10.7059837	10.20077394	9.52529462	9.52529462	9.52529462	9.52529462	9.52529462	9.52529462	9.52529462	9.52529462	9.52529462	9.52529462	9.52529462	9.52529462	9.52529462	9.52529462
JMJD6	10.0972886	9.95457355	9.849196042	9.079186658	9.645439949	9.830254533	9.745451286	9.709260178	9.763773344	9.402848602	9.602817665	9.794372524	9.983988839	10.05449314	9.768356677	9.218721477	9.182281188	9.747389143
ZC3H13	10.2384649	10.2505023	10.07998526	10.20988062	9.45636957	9.625974034	9.520282592	9.348607924	9.520282592	9.348607924	9.520282592	9.348607924	9.520282592	9.348607924	9.520282592	9.348607924	9.520282592	9.348607924
TRIM69	9.742113041	10.029372652	9.490355481	9.574104174	10.13456465	9.963189608	9.811308709	9.856211384	9.958864378	9.95823135	9.661564926	9.412429498	9.623468968	10.14734625	9.597842103	9.744480713	9.97356589	9.419938505
ZFAND6	9.861531101	9.50191953	9.889907806	9.70285956	10.28808521	9.537404962	9.537404962	9.537404962	9.537404962	9.537404962	9.537404962	9.537404962	9.537404962	9.537404962	9.537404962	9.537404962	9.537404962	9.537404962
CORDC1	9.14188666	9.718544667	9.753703909	9.783185226	9.330670381	10.27327958	9.728752152	10.25482361	9.204830053	9.924291768	10.13464347	9.674547915	10.06842572	9.703298838	10.42644398	9.450433404	9.574170457	9.866991949
NRW1	9.91119262	9.641704876	9.74232345	10.02707232	9.397334922	9.279259863	10.0715698	9.712557123	9.29454582	9.92854298	9.739464477	9.98246008	9.93779115	8.675612555	9.542831979	9.74528066	9.84865568	9.74528066
CDK17	9.90595768	9.834575828	9.987712338	9.943274623	9.140324621	9.170324621	9.170324621	9.170324621	9.170324621	9.170324621	9.170324621	9.170324621	9.170324621	9.170324621	9.170324621	9.170324621	9.170324621	9.170324621
ABC1	9.554451097	9.447964714	10.1186261	9.752838109	9.726784664	9.99707851	9.757925421	9.803935649	9.586459762	9.6465789	9.808241727	10.01045459	9.360227886	9.328371135	10.02115534	9.860953893	9.622895114	9.346833139
SMARCA2	9.114091428	9.847466537	9.552490667	9.552490667	9.552490667	9.552490667	9.552490667	9.552490667	9.552490667	9.552490667	9.552490667	9.552490667	9.552490667	9.552490667	9.552490667	9.552490667	9.552490667	9.552490667
ABC3	9.159679156	9.599719068	10.2289274	9.710076318	9.710076318	9.710076318	9.710076318	9.710076318	9.710076318	9.710076318	9.710076318	9.710076318	9.710076318	9.710076318	9.710076318	9.710076318	9.710076318	9.710076318
MAN1B1	9.645336961	10.1789932	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873
GPX1	9.725962188	9.875989665	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873	9.71578873
NMT	9.960652904	9.61566456	9.791711077	10.08479617	9.97026516	10.054116526	9.24571167	9.326589038	9.737397374	9.3174506								

ZFP36L1	9.710551812	9.645661709	10.75883369	8.941984513	10.0786667	10.65640251	10.20698673	9.071956631	9.114463699	8.46252125	10.06625965	10.03041392	11.15494752	9.713243437	9.551624204	8.964530211	8.573444652	10.22262168
PIN1	9.944304081	9.884701866	8.828948013	9.94400255	9.94004025	8.85021455	9.58048276	9.250778464	9.558255396	9.457635354	9.368710735	9.87217891	10.36466693	10.32072389	9.261535633	9.321271234	9.541409256	9.593758614
SCRN2	10.13662388	10.16671136	9.695058979	9.655920376	9.58565731	10.12879593	9.488899249	9.726438077	9.573366664	9.476380777	9.514478902	9.680457502	10.03563907	10.15177779	9.552080374	9.531665946	8.926903277	9.796866864
CTNN1A	10.01500661	9.703010581	9.856268781	9.934034671	9.863072045	9.419194255	9.705867249	9.525090835	9.715359719	9.573085538	9.961076786	10.02866493	9.344717491	9.991154272	9.581482995	10.00553161	10.20059016	9.578069599
ITPS	9.57806589	9.851497262	9.821497046	9.93090449	9.452083403	9.60990449	9.452083403	9.550816981	9.830359857	9.830359857	9.830359857	9.830359857	9.830359857	9.830359857	9.830359857	9.830359857	9.830359857	9.830359857
MAC1	9.235154192	9.785178421	8.830305078	8.830305078	8.830305078	8.830305078	8.830305078	8.830305078	8.830305078	8.830305078	8.830305078	8.830305078	8.830305078	8.830305078	8.830305078	8.830305078	8.830305078	8.830305078
TOLR3GL	10.32298101	10.36036375	10.0456377	10.42571339	9.54584363	9.763639276	10.2863904	9.041498854	9.368274488	9.196358957	9.740550057	10.06601318	10.6522187	10.56198552	9.479674681	9.466335105	9.332849655	9.403304078
TNKR1D	9.568834778	9.68839103	10.1657636	10.85737958	9.842837594	9.324105232	10.25061462	9.78537958	9.452947489	9.4011609	9.92950835	10.08495819	9.801186576	9.612533642	9.86943152	9.59864195	9.13518211	10.1735023
PARP4	10.06923627	9.268628693	8.755113355	9.237114384	8.724625864	9.663858487	9.660084375	9.850861422	9.571842025	9.506639743	9.905052309	10.12440719	9.486515477	9.752606411	9.911351394	10.15991209	10.10195408	9.86785517
USP8	10.06794942	9.894941188	9.887507854	9.868507854	9.757150217	9.395605805	9.784710083	9.640559825	9.587951116	9.48017327	9.599654293	10.20263373	9.667600299	9.91833606	9.91833606	9.91833606	9.91833606	9.91833606
PPP1R12A	9.93762925	9.708147636	9.802239105	9.802239105	9.708147636	9.802239105	9.802239105	9.802239105	9.802239105	9.802239105	9.802239105	9.802239105	9.802239105	9.802239105	9.802239105	9.802239105	9.802239105	9.802239105
WDR58	9.542089226	9.473004157	10.06965237	9.72723905	9.6884466	10.0664895	9.434960665	9.482856991	9.56672777	9.87184188	9.90792201	9.517895054	10.15232553	9.73029651	9.826881325	9.596504576	9.904540314	9.467835517
PNPLA8	9.313821698	8.908560428	9.979885029	9.90363699	9.64058778	9.465176408	9.752441467	9.436421722	9.947768552	9.741264697	9.60368487	10.26186102	9.75165774	9.479384423	9.79325026	9.763141982	9.763141982	9.763141982
HLA15	10.26908147	10.13906617	9.560421007	9.560421007	9.560421007	9.560421007	9.560421007	9.560421007	9.560421007	9.560421007	9.560421007	9.560421007	9.560421007	9.560421007	9.560421007	9.560421007	9.560421007	9.560421007
SDHC	9.920298371	9.990908482	9.588362075	10.258112655	10.34968231	9.852403244	9.704232318	9.46381669	9.79637437	9.484277115	9.979186987	9.943419489	9.17574852	9.471319462	9.540207386	9.703665651	9.371805064	9.497352224
BHLH1E1	9.139317048	10.3077427	9.623132852	9.49565706	9.968938663	9.22078552	9.644661253	10.62050564	9.72491075	10.0458276	9.582437074	9.112641314	9.748833142	9.62241138	10.12258146	8.98048332	9.815627525	9.938972166
CAP2B	9.411154326	10.40644002	9.935783678	9.9768973891	9.723962975	9.609749521	9.823588333	9.24743194	9.406564057	9.013390417	9.50694185	9.82080647	9.87796206	10.21609636	9.419992943	9.68268044	9.145732031	9.885061539
EIF2A	9.806153965	9.367013865	9.639830397	9.763402465	9.842504569	9.731701151	9.713640579	9.568195261	9.692004429	9.59021224	9.523760378	10.59493397	9.788327833	9.931261174	9.769733955	9.807244849	9.602281628	9.602281628
TUBGCP2	9.710510582	10.09819	9.568602967	9.772022873	9.639404627	8.884361052	9.929024103	9.54175415	10.08639747	9.94074873	9.66389446	10.10319255	10.55975456	9.832302778	9.506041001	9.69545004	9.423446199	9.423446199
TNEM107	9.501544075	9.79822619	9.86316543	9.728113477	9.40254662	10.19758951	9.982353526	9.67682302	9.432917652	9.27079888	9.982326661	10.22618116	9.97826759	9.492339445	9.656658811	9.942007835	9.524486094	9.524486094
CHTF6	9.858961274	9.31731607	9.996508922	9.961498163	9.555747161	9.55109525	10.02083074	9.601583635	9.978452609	9.824059633	9.70562048	9.699711287	9.580622744	9.344790389	9.713847188	9.653323166	9.400449391	9.400449391
SLU7	9.409050015	9.87659706	9.381015875	9.37879898	9.430838806	10.17108956	10.01001108	10.07846007	9.601451362	9.071798738	9.96514797	10.25806814	9.65645315	9.83108743	9.673837022	9.888037165	9.623249874	9.623249874
REXO2	9.86773941	10.27512526	9.941808779	10.09833801	8.879728046	9.994665009	9.720536411	9.270843257	9.44991698	9.39136611	9.298956974	10.29713293	9.967873559	9.684353689	9.316541337	9.61148952	9.527197596	9.540114629
FBOX32	9.59056439	8.276678482	9.609078201	9.711964627	8.760958063	9.691659559	10.45661071	9.873915792	9.85133600	10.35244122	8.838483688	9.840272966	9.100512664	10.38283099	10.01539464	9.975501842	9.528853124	9.528853124
C14orf159	9.399959104	9.37192543	9.37192543	9.37192543	9.37192543	9.37192543	9.37192543	9.37192543	9.37192543	9.37192543	9.37192543	9.37192543	9.37192543	9.37192543	9.37192543	9.37192543	9.37192543	9.37192543
CVB51D2	10.07757112	10.16500509	9.68686191	10.19670439	9.98386435	9.70822014	9.618926018	9.754780824	9.238955455	9.750608602	9.57325275	10.20555414	9.695651874	10.18011583	10.02402803	9.678035563	10.003574809	9.610821388
MRPL35	9.622405845	9.514270139	10.19070769	9.616559218	9.722892625	10.21299576	9.425178379	9.65702477	9.433998112	9.817423096	9.745375757	9.91057257	10.31545459	9.297848004	9.639485065	9.454028348	9.73139058	9.73139058
ITPK1	9.639810652	9.795437046	9.824492827	9.824492827	9.795437046	9.824492827	9.824492827	9.824492827	9.824492827	9.824492827	9.824492827	9.824492827	9.824492827	9.824492827	9.824492827	9.824492827	9.824492827	9.824492827
PSM8A	9.822240785	9.16250695	9.706820482	9.706820482	9.16250695	9.706820482	9.706820482	9.706820482	9.706820482	9.706820482	9.706820482	9.706820482	9.706820482	9.706820482	9.706820482	9.706820482	9.706820482	9.706820482
RNF34	9.871962755	9.39099015	9.98954452	9.909751641	9.670420943	10.0170372	9.78240786	9.692281108	9.515921251	9.712356907	9.470689154	10.09301298	9.114394997	10.2136407	9.768952031	9.783224021	9.700143235	9.446195243
LRR14	9.912373934	10.15667985	10.03747538	10.03747538	10.15667985	10.03747538	10.03747538	10.03747538	10.03747538	10.03747538	10.03747538	10.03747538	10.03747538	10.03747538	10.03747538	10.03747538	10.03747538	10.03747538
COA5Y	9.6143807	9.759729839	10.08076632	9.948908063	9.86060273	9.812906652	9.723399054	9.56731388	9.619998248	9.88084837	9.626876771	9.664472751	9.965536796	9.696083052	9.188211206	9.233636226	9.61949074	9.61949074
HMG20B	9.42408463	9.97580697	9.76717138	9.9830661	9.55658673	10.37466152	9.89429279	9.483457733	9.732280794	9.742327841	9.59853842	9.713270338	10.65600223	9.71760835	9.59351326	9.59351326	9.59351326	9.59351326
S5B	9.36052327	9.768893953	10.15715317	10.2100189	10.0485490	9.040254339	9.761735881	9.590956675	9.54618572	9.487147358	9.509573102	10.21990601	9.96410539	9.87786998	9.69560069	9.652602869	9.57315581	9.69346865
STP7	9.872352361	9.38112125	10.38112125	10.38112125	9.38112125	10.38112125	10.38112125	10.38112125	10.38112125	10.38112125	10.38112125	10.38112125	10.38112125	10.38112125	10.38112125	10.38112125	10.38112125	10.38112125
RABA8	9.824861723	9.819007186	9.848800722	10.00461314	9.2225371	10.04361821	9.686128627	9.59216961	9.419716559	9.688585619	9.610925277	9.86105601	9.610925277	9.610925277	9.610925277	9.610925277	9.610925277	9.610925277
ACLY	9.894951045	10.19205923	9.876148474	9.615411643	9.77262375	8.85257907	8.831325251	9.65327771	9.801160958	9.61290284	9.56584688	9.49993102	10.3647804	9.584980005	9.728869107	9.763147147	9.55391702	9.490341117
CREG1	9.875443096	10.08932555	9.62529609	10.21140412	9.425473847	9.48970439	9.889275943	9.59623729	9.68850177	9.54276798	9.000214432	9.637859553	9.696723494	9.587471147	9.72511584	9.477173356	9.477173356	9.477173356
SDH8	9.24025779	9.67799866	9.702510338	9.986766672	10.02787445	9.563840846	10.00349877	9.660939695	9.80483626	9.422547652	9.66501488	10.17864505	9.757371602	9.733373376	9.141491384	9.447907855	9.462620388	9.462620388
MRPL34	9.85283177	9.843899659	9.678520805	9.235012629	10.08517299	10.3308905	9.71240185	9.251898568	9.558734527	9.717140185	9.650525779	9.516950099	9.817274007	9.965951898	9.434102363	9.539113988	9.70163481	9.70163481
CTD-2021K4	9.970770337	9.341448278	9.686941883	9.598064351	9.205828616	9.742514633	9.582054296	9.62684017	9.618728655	9.749047429	9.781577196	9.699957762	9.763611481	9.29128823	9.794955751	9.713352524	9.56354683	9.56354683
SARS2	9.655008167	9.062779447	9.968784714	9.968784714	9.062779447	9.968784714	9.968784714	9.968784714	9.968784714	9.9								

SMARCB1	9.913371872	10.40754542	10.13763635	9.90288523	9.74340893	10.07761319	9.65213571	9.83896781	9.671431832	9.225611842	9.38880981	9.77049565	9.942071935	9.635446905	8.918663235	9.346539374	9.175143283	9.18158424
CHMP7	9.667456732	9.30249056	9.926290756	9.167740819	10.30048768	9.84477489	9.94436167	9.561512774	9.514900408	9.860951493	9.519637917	9.741012606	10.089944	9.565106561	9.72526717	9.61377374	9.594512002	9.325918118
ATPV1A	9.252058927	10.1542906	9.890690987	9.691590929	9.30865966	9.788572846	9.258549594	9.592774958	9.619020174	9.67938811	9.969994056	9.726930708	9.90589702	9.826062091	9.766066282	9.573004974	9.265869248	
PTDS51	9.736702075	9.360230785	9.408665853	10.16468417	9.740894699	9.868013725	9.64407606	9.456849179	10.10426792	9.208285851	10.06328713	9.672630048	10.08048042	10.11921436	8.674390082	9.606989694	9.065788831	9.028296201
OCAD2	9.433523304	9.92532304	9.89334304	9.87828147	9.71082324	9.71082324	9.71082324	9.71082324	9.71082324	9.71082324	9.71082324	9.71082324	9.71082324	9.71082324	9.71082324	9.71082324	9.71082324	9.71082324
TMEM167B	9.226570098	9.302110492	9.907995185	1.970155375	1.970155375	1.970155375	1.970155375	1.970155375	1.970155375	1.970155375	1.970155375	1.970155375	1.970155375	1.970155375	1.970155375	1.970155375	1.970155375	1.970155375
PARL	9.775915304	9.65006615	9.686472445	9.488250788	9.753609303	9.808724359	9.87908222	9.534310864	9.66431804	9.17046171	9.491805100	10.06389657	10.2755135	10.079707438	9.340273915	9.582303667	9.531149571	9.405547756
FXYD5	10.53342071	10.44780064	9.682006272	10.16281805	9.52058658	9.509911674	10.33601843	9.509911674	9.509911674	9.509911674	9.509911674	9.509911674	9.509911674	9.509911674	9.509911674	9.509911674	9.509911674	9.509911674
YIPF1	9.706392305	9.32066485	10.36377699	9.7498425	9.929201314	9.95980865	9.257020917	9.053281051	9.300695376	9.396621033	9.546334148	10.16626642	10.13304632	10.23829258	9.297448467	9.577113824	9.609595605	9.233424657
CDK16	9.516923754	9.30766028	10.08851621	9.07238872	9.641729418	10.21360412	9.779740692	9.562886211	9.941481876	9.768345606	9.065888402	9.565436697	9.810219501	9.667373501	9.67373501	9.67373501	9.67373501	9.67373501
HADHB	9.729742117	9.96547277	9.96547277	9.96547277	9.96547277	9.96547277	9.96547277	9.96547277	9.96547277	9.96547277	9.96547277	9.96547277	9.96547277	9.96547277	9.96547277	9.96547277	9.96547277	9.96547277
ZFX	8.341658584	9.733482103	9.885821209	9.788279473	9.898222043	9.842099475	9.031861482	9.281962593	9.180806623	9.71474734	9.828947525	9.61142068	9.921736944	9.7579635	9.639043538	9.56603676	9.96588288	9.703291681
ATP1B1	9.333373852	9.221408561	9.867448892	9.44795943	9.950956957	9.48665205	9.648765029	9.78853726	10.2751395	9.7210693	10.14967456	10.08878829	9.676002429	9.760179198	9.561209993	9.676017919	9.676017919	9.676017919
PKNO3	9.35635913	9.9519273	9.119376669	9.885529596	9.06773444	9.89403853	9.214517102	10.42349403	9.875945403	10.51110622	9.940537828	9.896941437	9.508985371	9.147381596	9.86898797	10.3362598	10.06748136	10.1277561
SART3	9.68256073	9.861740696	9.661157479	9.81263993	9.17853937	9.81694133	9.982749954	9.747633218	9.665113682	9.580236508	9.812771578	9.06431873	9.59554252	9.840474439	9.41713883	9.653252879	9.604784511	
LZTF1L	9.87861188	10.1207416	9.107389738	9.967345738	9.707473291	10.08029279	9.245430978	8.739011522	9.742048205	9.53369672	9.578628459	10.30502925	8.96239067	8.718995996	8.860339919	9.408923816	9.0293162	8.8211778
ACSL3	10.1023449	9.05896777	9.02649358	9.27292772	10.14850453	9.077718445	9.077718445	9.077718445	9.077718445	9.077718445	9.077718445	9.077718445	9.077718445	9.077718445	9.077718445	9.077718445	9.077718445	9.077718445
KHNYN	9.523064308	9.488531844	9.931276005	9.891480806	9.891480806	9.891480806	9.891480806	9.891480806	9.891480806	9.891480806	9.891480806	9.891480806	9.891480806	9.891480806	9.891480806	9.891480806	9.891480806	9.891480806
CHD4	9.984151501	10.00898382	9.416437858	9.230689337	9.230689337	9.230689337	9.230689337	9.230689337	9.230689337	9.230689337	9.230689337	9.230689337	9.230689337	9.230689337	9.230689337	9.230689337	9.230689337	9.230689337
ELAC2	9.414733055	10.55747725	9.949368018	10.189877701	9.929756378	9.736102779	10.31845182	9.549164399	9.287471325	9.645268464	9.426831623	9.54643686	9.530447528	10.10823971	9.698261166	9.028218268	9.367979906	9.686217145
EMC2	9.494901368	10.07642089	9.113909564	9.213679917	10.01504842	10.1177508	9.837048756	9.12651564	9.324261041	9.60273938	10.11623929	9.565577119	10.10574218	9.260986399	9.698937946	9.687916076	9.29454355	
UBE2S	9.880063605	9.652674771	9.42024502	9.652674771	9.374997165	10.05715986	9.665716844	9.345875122	9.45297744	9.075900248	10.11961844	9.581812912	9.637506948	9.530175106	9.511235505	9.308198266	9.409392623	9.810280402
TMEM127	10.213712	9.513716214	9.036859111	10.0253393	9.31468842	9.388773915	10.21373974	9.616251232	9.57399234	9.615283005	9.91556561	9.936921191	9.673304049	9.24400736	9.731992283	9.862655299	9.308198266	9.409392623
LTPB3	9.928441213	10.11598345	9.805083119	9.43593012	9.905931979	10.13087718	10.24660757	9.188201479	9.587985769	9.700911212	9.28609954	9.27840814	9.960539992	10.02736048	8.986956979	9.221580211	9.39138806	8.571278816
TMEM2	9.512882907	9.641651336	8.73907488	9.641651336	8.824637602	8.9276111	9.646807947	9.793041309	9.882331686	9.560552515	9.307530034	9.631251802	10.2238497	10.03129627	10.17200938	10.16851148	9.303129697	
GM3A	8.977119629	8.879989494	9.603995841	9.036396948	10.14257201	9.176975915	10.58328683	9.630153902	10.03271096	9.842052659	10.14077837	8.894023502	10.42335703	9.712215179	9.676845061	9.676845061	9.658100691	9.747549022
CSNK1G3	10.0722653	9.102342616	9.6233007	9.816397502	10.31982966	9.748480173	10.16545448	9.225249192	9.46502415	9.32493915	9.861451232	9.555451459	9.581364341	9.785229796	9.286494079	9.668590313	9.358679209	9.736570029
PCP2	9.83085209	9.96818208	9.96818208	9.96818208	9.96818208	9.96818208	9.96818208	9.96818208	9.96818208	9.96818208	9.96818208	9.96818208	9.96818208	9.96818208	9.96818208	9.96818208	9.96818208	9.96818208
PAF1	9.547402091	9.10377067	9.97857443	9.746330209	9.648874491	9.675809111	9.980867599	9.98015074	9.842002472	9.98136975	9.755120368	9.578574756	9.758474029	9.860180584	9.838038487	9.59107	9.746485577	
SFB3	10.0260835	10.00602494	9.601570056	9.68503968	9.836768877	9.58775675	9.923175176	9.127867964	9.682128878	9.26833983	9.398629067	9.663037669	9.792493711	9.624629539	9.111551213	9.625426968	9.14748187	9.658703256
DNAI21	9.37138837	10.00640522	9.421905997	9.455243522	10.0869441	9.834145511	9.24425661	9.834145511	9.24425661	9.834145511	9.24425661	9.834145511	9.24425661	9.834145511	9.24425661	9.834145511	9.24425661	9.834145511
CPNE3	9.860919212	9.348568203	9.753713016	10.16972059	9.44068758	9.754873758	9.683110621	9.650623103	9.918784439	9.492592534	9.938913905	9.158994624	9.72437967	8.655770459	10.05380162	9.735759352	9.174665119	9.342399842
TSN	10.0762455	10.2948347	10.12010035	9.79569615	10.00454866	10.50407663	9.072975443	9.69352266	9.377507467	9.470988016	10.60237638	9.810634662	9.642475514	8.740251654	9.433233053	9.559624234	9.439848722	
DCAF5	8.657112211	10.14497318	9.665257443	9.76800486	9.616666333	9.590130729	9.947762601	9.478281475	9.728417506	9.60576565	9.6707494	8.611729532	9.939251337	9.209567784	9.900993066	9.818833988	9.644555527	9.502110631
PODNL2	9.62667121	10.24562206	9.964512083	9.964512083	9.964512083	9.964512083	9.964512083	9.964512083	9.964512083	9.964512083	9.964512083	9.964512083	9.964512083	9.964512083	9.964512083	9.964512083	9.964512083	9.964512083
EMC2	9.923866023	9.854878003	9.854878003	9.854878003	9.854878003	9.854878003	9.854878003	9.854878003	9.854878003	9.854878003	9.854878003	9.854878003	9.854878003	9.854878003	9.854878003	9.854878003	9.854878003	9.854878003
PMVK	9.459910592	10.24027447	9.924343696	9.749970025	8.850514384	10.22653704	9.478222285	9.519837845	9.723242413	9.450040343	9.489397451	9.802560642	9.760559601	9.47158079	9.57001251	9.369774836	9.138951883	9.769420218
ATF2	9.69445392	9.790923207	9.443434251	9.485798191	9.43641464	9.121696442	9.892290202	9.562707766	9.926512354	9.640275525	9.918101003	10.0966366	9.821185621	8.545618526	9.604588467	9.963098172	9.722422889	9.7140173218
TSTA3	9.549392141	10.17960802	9.63393602	9.272730379	10.31191314	9.61093069	9.772848464	9.612602513	9.645368236	9.347107862	9.454506219	9.989393686	9.67458788	10.03868258	9.685297461	9.223942218	9.609420507	9.783279499
ALDH16A1	9.589156124	9.61975028	9.875898578	9.875898578	9.875898578	9.875898578	9.875898578	9.875898578	9.875898578	9.875898578	9.875898578	9.875898578	9.875898578	9.875898578	9.875898578	9.875898578	9.875898578	9.875898578
ARHGAP25	9.577266291	9.92391473	9.978655289	9.816350703	9.59845743	9.803983686	9.272962012	9.55711846	9.669931371	9.65035025	9.9419117	9.10720579	9.628772347	8.878518691	9.98361275	9.570097789	9.458684138	10.01981231
HDC3	9.651824795	9.86138482	9.94103841	9.963251586	9.55005907	9.79824266	9.23716792	9.60412489	9.72073906	9.599360354	9.435939377	9.87102716	9.803878561	10.21947477	9.73805068	9.96992844	9.459	

SIXO	9.40409934	9.122269541	8.815113799	8.715310239	9.10305037	9.783086504	9.931298507	10.3068134	9.586028797	9.382396428	9.447011352	9.71603385	10.3074488	9.773675745	10.42232579	9.866702151	9.620120885	9.262175932
KIAA0040	9.410325081	10.54151275	9.293010583	9.79239737	9.55163741	9.954487166	9.448030479	9.57903664	9.786571179	9.266848962	9.842571473	9.55621765	9.188697083	9.930608697	9.82244748	9.979408979	9.627003387	9.627003387
MED4	9.78784816	9.25226446	9.647813051	9.05206224	9.705263793	9.545359596	9.853077229	9.548787191	9.555204723	9.465318178	9.929314917	9.852104835	9.475752526	9.364904964	9.714243788	9.438854511	9.686365964	9.686365964
ATPS2	9.71486373	10.07004653	9.815998484	9.450759593	10.0655477	9.877632183	9.346153645	9.592947147	9.260049145	9.425933178	9.638194474	9.554379861	9.320005992	9.070749962	9.239670171	9.620496231	9.887421693	9.887421693
TRM4	9.3351491	9.89436292	9.42835838	9.92671307	10.0959545	9.89043667	9.20353265	9.7938335	9.46029308	9.6855122	9.54012588	9.43651012	9.43651012	9.43651012	9.412878307	9.12878307	9.53274572	9.53274572
LRK1	9.87771191	9.37124359	9.77024394	9.87761081	9.02892486	9.635162656	9.115578206	9.32219877	9.106572347	9.742939477	9.074994544	9.645688211	9.822899685	10.36042719	10.1670007	10.556561876	10.11266954	10.11266954
GOE1	9.693003402	9.86080273	9.968368605	9.907479175	9.705984964	10.2304203	9.592205507	9.27248782	9.524371706	9.19036871	9.76395051	9.81630917	9.962303493	9.558804019	9.435243772	9.536559595	9.26165246	9.675272275
FAMS6B	9.838178625	10.33002445	9.734493441	9.508835902	9.424327849	9.94475356	9.869659536	9.301092248	9.590927947	9.116910423	9.605878274	9.646034916	10.08383101	9.90846809	9.318721867	9.384902698	9.442323939	9.442323939
CEB2	10.13703591	9.635673816	9.973891697	9.649944251	9.407653811	9.359240219	9.665327377	9.087511451	9.948117527	9.33717151	9.587832089	9.608547282	10.04902029	9.427815997	9.127417998	9.079386413	9.445554119	9.153116846
UBA2	9.49564210	9.78629762	9.280876999	10.09884755	9.159190794	9.615435099	9.37072974	9.378868145	9.394239504	9.655284365	9.98934834	9.637039846	9.114905053	9.93514659	9.762391531	9.905751174	9.576409111	9.576409111
RSU1	9.838316156	10.12910688	9.264528921	10.12910688	10.19968207	9.267873506	9.606480197	9.827744737	9.916009188	9.228449843	9.31783259	10.34809173	9.854603487	9.706392186	9.244969382	9.296616834	9.584713606	9.584713606
APOL3	9.46467155	9.53393238	9.76644359	9.194246044	9.828621892	10.13890043	9.587462256	9.6028671	9.906044545	9.739197067	9.877839255	9.161126704	9.084655251	9.791530262	9.397721505	9.74338949	9.681960319	9.434367753
AP1M1	9.80176397	9.33767292	10.01656682	9.49024427	9.793709483	10.14576481	9.440253424	9.233646834	9.233646834	9.31217498	10.07109273	10.51301942	9.47783785	9.422408837	9.61848528	9.571898835	9.51653335	9.51653335
IF16	9.51796152	9.68575101	10.2630008	9.718806667	9.609296277	9.5803737	9.365708102	9.473081011	9.3235359	9.33545491	10.20728116	9.765442958	9.536930116	9.79210115	9.616236621	9.220419327	9.516530324	9.516530324
IFM	9.038682055	9.44856729	9.850941246	9.792551465	9.435678011	9.51929749	9.594033363	9.842420518	9.792695889	9.702610099	9.83223791	9.759429956	9.504681295	9.464084394	9.771060044	9.826274041	9.950478977	9.950478977
INFCB	9.304700622	9.79731134	9.664468677	10.0374118	10.00657196	9.6078787474	9.825684345	9.617814511	9.41043562	9.52859734	10.21664445	9.342745195	9.189097651	9.577938235	9.523466442	9.888385373	9.28500461	9.28500461
TAHYA	9.609226407	10.19132728	9.45493802	10.0551292	10.19132728	9.45493802	10.03427696	9.575314918	9.986109485	9.132378046	9.65870704	9.951225991	9.280892588	9.269318325	9.129120892	9.35249442	9.201493412	9.46167891
SPRL2A	8.86211529	8.794704499	9.861328519	9.585106649	9.434031763	9.861328519	9.268440282	9.597947433	9.597947433	9.912092761	9.720581604	10.43671767	9.49352712	9.881013352	9.368191281	9.894391281	9.86667800	9.86667800
ZDHX3	10.00501297	10.2362627	8.657071162	9.813203891	9.733737189	9.694024861	10.14155537	9.191666971	9.532802617	9.138824141	9.40475838	9.101159929	10.14381821	9.622272143	9.434054298	9.408415475	9.960184136	9.960184136
MEAL	10.13703699	10.00206683	10.14177883	9.984515186	9.787709539	9.82505158	9.792799773	9.281646356	9.474728661	9.675059111	9.507369094	10.03410082	9.568676359	9.371241428	9.460225379	9.502807219	9.846791712	9.846791712
TUL1	10.42922851	10.38610625	9.892808059	9.422720906	10.17401701	9.415247259	9.031062578	9.28570393	9.31155048	9.459003861	10.6582876	9.806697083	9.879594322	9.399425353	9.146440009	9.92356462	9.26742104	9.26742104
HMGN4	9.298528475	9.55478152	9.688231202	10.030793	10.1206445	9.8520083102	9.257054074	10.2439186	9.462983588	9.400739208	10.2777875	10.155885874	8.857160357	9.265868126	9.62521132	9.471165201	9.978948705	9.978948705
NEZ11	9.709149306	9.713609336	10.33095768	9.54182925	9.7739849	9.478583394	9.113302966	9.690865113	10.02203105	9.548795289	10.17841485	9.62773932	9.181315604	8.75402903	9.499899511	9.902370468	9.327047283	9.327047283
CR1	9.698753918	9.888595679	10.1149342	9.05947468	9.553252745	9.623084677	9.882532463	9.335292494	9.263987165	9.638792894	10.04904742	9.837030838	9.886835854	9.382942594	9.220661316	9.910714788	9.910714788	9.910714788
TNRSF4	9.481347921	9.667472525	9.127672525	9.881347921	9.466776248	9.828873833	9.930787089	9.526838286	9.942648346	9.654779682	9.802548685	9.032504114	9.060845965	10.10126543	9.882297961	9.344282912	9.292669898	9.844546062
MGLL	9.639653951	9.852829544	9.148400108	9.81315458	9.52669024	9.870902449	9.970185902	9.741003329	9.291001976	9.438886274	9.573357052	10.10029675	10.20538536	9.10156568	9.56242561	9.629343482	9.720948959	9.720948959
SEPH51	9.64434545	9.602337002	9.406265739	9.64413903	10.11970543	9.75871055	9.653171474	9.423028206	9.758424762	9.446519942	9.65262842	9.64365329	9.26455339	9.69919328	9.22979115	9.675367219	9.93941471	9.93941471
PARC	9.749025765	9.42083765	9.774831765	9.42083765	9.42083765	9.42083765	9.42083765	9.42083765	9.42083765	9.42083765	9.42083765	9.42083765	9.42083765	9.42083765	9.42083765	9.42083765	9.42083765	9.42083765
PCN	9.616162921	9.774831765	9.64083765	9.550821934	9.836969348	9.653262101	9.443166703	9.614991136	9.45895735	9.465891149	9.87889459	9.707345735	9.375296339	9.397030256	9.77967668	9.934346769	9.921703422	9.921703422
RCN2	9.282109991	9.601824892	9.918889747	9.736369578	9.826772892	9.97019887	9.310732374	9.458159832	9.601235731	9.25102372	9.635289928	9.635317579	10.26425313	8.612929808	9.269071462	9.342391324	9.5621549	9.563699472
ARID1A	9.640180978	9.491071467	9.814200143	9.814200143	9.52254617	9.420620507	9.453908893	9.820081422	9.6449971	9.623404677	9.692024622	9.109447027	9.497627259	9.792569741	9.541728181	9.619096953	9.619096953	9.619096953
AKIRIN1	9.460902832	9.137648338	9.510750429	9.816621688	9.551237678	10.14083957	9.917825277	9.612128663	9.841981246	9.505819282	9.95221294	9.453525667	9.365321753	10.44471731	9.961603391	10.16598521	9.066854876	10.0352294
SRRT	9.59833075	9.58831484	9.110934255	9.30823445	9.973569417	9.027420899	9.643937595	9.328322146	9.643937595	9.328322146	9.328322146	9.328322146	9.328322146	9.328322146	9.328322146	9.328322146	9.328322146	9.328322146
SFB3	9.826303991	10.49256176	9.193037539	10.09317816	9.842358699	9.488326394	8.83378625	9.469346698	9.461082747	10.16152288	9.835802661	9.390143001	6.609597426	10.11549214	9.447449398	9.460042001	9.147555478	9.69306244
CAOT1	9.73281009	9.35204376	10.18929802	9.35204376	9.35204376	9.35204376	9.35204376	9.35204376	9.35204376	9.35204376	9.35204376	9.35204376	9.35204376	9.35204376	9.35204376	9.35204376	9.35204376	9.35204376
RASD1	10.82735119	11.1126154	9.636109525	9.88811809	9.88811809	9.88811809	9.88811809	9.88811809	9.88811809	9.88811809	9.88811809	9.88811809	9.88811809	9.88811809	9.88811809	9.88811809	9.88811809	9.88811809
JSRP1	9.32883478	10.0226098	10.52486763	9.18068463	9.295429216	10.15095944	9.877632561	9.623738926	10.09511021	9.3552082	9.614526102	8.301256266	10.04189011	9.718288617	9.03194036	9.545417611	9.834480171	9.85176342
DNRP	9.886901838	9.72078891	9.608854151	10.2659038	9.99018918	9.670828523	9.173738241	9.523913376	9.174737166	9.550169396	9.297060274	9.84878068	10.46612791	9.393551037	9.480399887	9.84790324	9.50260679	9.50260679
UBE12	9.674027145	9.645619277	10.15016739	9.28824332	9.608331473	9.709545938	9.95700422	9.648775543	9.476180728	9.073786428	9.65262932	9.019259337	9.550481717	9.96485293	9.153222911	9.459794266	9.840032122	9.183488117
FAMS3C	9.340846847	9.100229139	9.16454446	9.59389938	9.308276461	9.8665536	9.12813534	10.21218784	9.1218784	10.11907481	9.394330079	9.605368736	9.552735597	10.42716155	9.956513165	9.102366123	9.736221619	9.736221619
MTMR6	1.848886626	9.11696998	9.48207565	9.67246509	9.116441028	9.88829944	8.915092898	9.735119232	9.546123238	9.442336206	9.34776881	9.029131034	9.873251288	9.302262206	10.02492028	9.927828259	9.92932569	9.92932569
EOXC4	9.373437842	9.06139078	9.000670728	8.850795342	9.766471208	9.850795342	9.366317331	10.00520862	9.69572587	9.8306274	9.340726891	9.745887846	9.362471875	10.21958877	9.947			

GNLI	9.12882484	9.33549673	9.41962925	9.78668837	9.78581274	9.56746252	9.45013921	9.94809229	9.95962673	9.54028613	9.70828022	8.81226929	9.03570801	9.88606341	9.38091141	9.603895218	9.926563893	9.340281727
GLBI	9.06213647	9.85948264	9.56337889	9.26889851	9.27914439	9.83909575	9.27914439	9.26889851	9.54668238	9.45421732	9.73566384	10.02212718	9.26467407	9.02005347	9.38241291	9.422447163	9.173510524	9.688084144
CRLS1	9.89655651	9.87470682	9.30493686	9.39730053	9.45960397	9.86673048	9.00429659	9.80185652	9.51655612	9.43674912	9.62846308	9.98326481	9.60792288	9.73771734	9.425430745	9.497032594	9.591237337	9.991818669
SNRPB	9.4493116	9.56733504	9.89952174	9.34224729	9.50839751	9.62765539	9.42372650	9.58971783	9.53681610	9.32148514	9.69874319	9.86417293	9.80562916	9.5745698	9.33070588	9.334677208	9.334512285	9.639833474
SCIA	9.57672468	9.78734608	9.80747119	9.74719159	9.58043337	9.74719159	9.87791757	9.44489822	9.44489822	9.34482007	9.31741593	9.28452122	9.82078465	10.0562162	9.52741101	9.32078465	9.324560832	9.269797116
PTPN11	8.62322337	8.65746265	8.75407285	8.86041668	9.10712265	8.78733288	8.10003705	9.28939365	9.5854327	9.40040724	9.76202274	9.80788455	9.76094422	9.73655898	9.62037668	9.399919529	9.83915124	9.818641214
GRPL15	8.881273516	9.55726136	9.786637964	9.68729506	9.21899907	9.80944838	8.782241579	9.20671684	9.55623532	10.10682635	9.216014156	9.402208504	10.05276824	9.905314569	9.145393126	9.544094951	9.699822268	9.422575673
MAPKAP1	9.68913426	9.825051585	9.752601487	9.270891412	9.814382801	9.391445161	9.482716508	9.474969092	9.738153922	9.546240249	9.316333484	9.82293209	10.00273262	9.619256932	9.536140854	9.554486859	9.46011405	9.627145006
NUBP2	9.58918104	10.18411501	9.774021201	9.363548983	9.56341118	10.32739018	9.870458751	9.284666579	9.505996998	9.247572683	9.530126289	9.937253152	9.643665418	9.903482438	9.899727959	9.501439354	9.476229430	9.028517927
VPSS4	10.28682601	8.845118911	9.467339016	8.845958261	9.20751376	9.467339016	9.467339016	9.485631171	9.614003136	9.237910711	9.820263521	9.554618842	10.45684951	10.64365431	9.510904185	9.6900196	9.680788842	9.537233178
ADA	9.652385458	9.849736467	9.849736467	9.849736467	9.551035053	9.60943459	9.46623007	9.770991778	9.441984453	9.5792058	9.69798632	9.647768281	9.975143208	9.540293756	9.517134145	9.517970525	9.591621123	11.50457333
CNS1A	9.487681494	9.91462298	9.72735706	9.70983495	9.72990319	9.64441285	9.504071596	9.071076701	9.725468144	9.416662321	9.43034538	9.67588564	9.66477823	8.631451044	9.17249899	9.54285019	9.127149568	9.72231839
PRD12	9.848479086	9.189113888	9.538311948	9.578996106	9.378996106	9.378996106	9.306103477	9.719509686	9.557956692	9.721394414	8.51764784	9.185272943	9.82262821	9.868373483	10.11345714	9.70105893	9.514422405	
RASB	9.35987943	9.553892111	9.654774082	9.69698503	9.75623721	9.45674937	9.371013685	9.395166916	9.54516384	9.32801512	9.727932969	9.545412081	9.792784399	9.162311772	9.49011248	9.502798511	9.2434316	9.931964902
10.13269441	10.13269441	10.13269441	10.13269441	10.13269441	10.13269441	10.13269441	10.13269441	10.13269441	10.13269441	10.13269441	10.13269441	10.13269441	10.13269441	10.13269441	10.13269441	10.13269441	10.13269441	10.13269441
GALK2	9.51498372	9.28591652	9.683590372	8.36778212	9.96256198	9.682311228	10.16387627	9.3528891	9.28198331	9.362462896	9.266795034	9.41637106	9.668819813	9.984607279	9.2338655	9.573014162	9.741395935	9.579484531
RTF1	9.442044231	9.258640252	8.979661292	9.003851519	9.258640252	9.707097993	9.782651167	9.236813148	9.704292346	9.530363122	9.598675452	9.66790518	9.379554836	9.759244823	9.536160204	9.500280489	9.599374394	9.753088876
CNH1	9.542696527	9.427401895	10.03012595	9.569224433	9.45062601	9.35697701	9.840018988	9.584441117	9.888676811	9.232178641	9.828795043	9.74221781	9.618121489	9.406022827	9.354213082	9.543099768	9.111782088	9.607920638
ARHGAP30	9.547904537	9.296904989	9.503246891	9.731306796	9.53643014	9.287418494	9.097252168	9.560139859	9.64982691	9.560737316	9.582758739	9.694326119	9.448333002	9.784352827	9.653393996	9.668792905	9.364115993	9.274626278
ARPC1A	10.17157061	10.0694436	9.21620096	9.623969437	9.21620096	9.6518395	9.78752448	9.10857355	9.55167172	9.117731616	9.553154229	10.30641113	9.532051928	9.483097836	9.020616754	9.3159866	8.87740479	9.470855891
BTG5	9.14754631	9.03463131	9.18037704	9.18037704	9.18037704	9.18037704	9.18037704	9.18037704	9.18037704	9.18037704	9.18037704	9.18037704	9.18037704	9.18037704	9.18037704	9.18037704	9.18037704	9.18037704
RBP1	10.10951201	9.67982699	9.141348565	9.57188604	9.54583421	9.98958169	10.02678576	9.465221331	9.536902584	9.523072068	10.36619217	15.76041122	9.818390324	9.528354855	9.774091309	9.479430702	9.35273559	
UBE2QL1	9.33119009	9.394178808	9.59889796	9.25169417	10.0340367	9.721934823	9.702533462	1.416658172	9.865062838	9.980761803	10.02685282	9.20708842	9.898242955	9.873355671	9.48244616	9.665387424	9.042060348	9.241015897
9.07520239	9.07520239	9.07520239	9.07520239	9.07520239	9.07520239	9.07520239	9.07520239	9.07520239	9.07520239	9.07520239	9.07520239	9.07520239	9.07520239	9.07520239	9.07520239	9.07520239	9.07520239	9.07520239
CDC167	10.43973771	10.31309934	10.04973771	9.771842995	9.70145046	10.63745445	9.875581824	9.869054026	9.621266601	9.140881931	9.495277547	9.90235536	9.464713676	9.134831779	9.820661927	9.250017404	9.04635679	9.58331302
MLX	9.06728477	10.47174825	9.14039495	9.148399315	9.552171021	10.11297897	9.928732112	9.625255114	9.176387089	9.167303174	9.34323459	9.64491938	9.483225409	9.22192924	9.208516863	9.147956639	9.285162075	
ABCA5	9.295271876	9.314681371	9.56888419	9.214790307	9.654637695	9.462192243	9.321355092	10.02105297	9.31590421	10.10537814	9.273561542	9.68895934	10.06222872	9.509577049	10.12195654	10.11130898	10.43237253	9.327315605
ARPC1B	9.147174892	9.589131482	9.589131482	9.589131482	9.589131482	9.589131482	9.589131482	9.589131482	9.589131482	9.589131482	9.589131482	9.589131482	9.589131482	9.589131482	9.589131482	9.589131482	9.589131482	9.589131482
TNRC6B	9.794859174	9.579459741	9.11307718	9.11307718	9.11307718	9.11307718	9.11307718	9.11307718	9.11307718	9.11307718	9.11307718	9.11307718	9.11307718	9.11307718	9.11307718	9.11307718	9.11307718	9.11307718
SDCCAG8	9.850205806	10.33538296	9.13133929	9.856157798	10.12655405	9.44809994	9.431374127	9.212367995	9.636813231	9.447810868	9.484552325	9.591729701	9.800014797	9.110561917	9.029838603	9.64327979	9.172290213	9.84137973
LSM12	9.491390296	9.603244858	9.603244858	9.603244858	9.603244858	9.603244858	9.603244858	9.603244858	9.603244858	9.603244858	9.603244858	9.603244858	9.603244858	9.603244858	9.603244858	9.603244858	9.603244858	9.603244858
ZC3H4	9.659268146	10.14222107	9.759529842	9.270538219	9.844352259	9.190057788	9.811742061	9.378696526	9.18528228	9.612491383	9.499858519	9.989265374	9.09094038	10.02819418	9.56949502	9.507500392	9.4014878	9.800905428
ZNF11	9.257498229	9.599232109	9.740710065	9.908409511	9.707110768	9.965179438	9.548975864	9.524904934	9.296378129	9.40357122	9.39866511	10.05062273	10.13332505	9.719073565	9.024387158	9.248293926	9.542831447	9.624696934
ARMC10	9.599378052	10.00629817	9.692884519	9.458680219	10.19071548	9.010101896	10.14428338	9.11718507	9.494174047	9.226151492	8.867164278	10.42803136	9.907645562	9.644041389	8.806205919	9.579256787	9.207743649	9.400941653
NFPI1	9.659675268	9.392541626	9.838954856	9.392541626	9.392541626	9.392541626	9.392541626	9.392541626	9.392541626	9.392541626	9.392541626	9.392541626	9.392541626	9.392541626	9.392541626	9.392541626	9.392541626	9.392541626
BLT1	9.862102723	9.687521131	9.687521131	9.687521131	9.687521131	9.687521131	9.687521131	9.687521131	9.687521131	9.687521131	9.687521131	9.687521131	9.687521131	9.687521131	9.687521131	9.687521131	9.687521131	9.687521131
NELFD	8.469449282	9.094491698	9.890376078	9.854275764	10.05275561	9.532526675	9.754400597	9.774963189	9.565289876	9.475605461	9.423896040	9.53867055	9.248231114	9.154609385	9.82744983	9.392273504	9.62096312	9.629467717
SP2	9.442770235	9.061172911	9.828952696	9.92765636	9.72288422	9.616207415	9.92241549	9.166207415	9.166207415	9.166207415	9.499407759	10.2779495	9.560690215	9.36896991	9.142032794	9.569224421	9.214596146	9.25127912
USP14	9.853127259	9.53333654	9.853295236	8.23899116	9.98548766	10.14764243	9.347939726	9.831901612	9.711326911	9.627278659	9.508916737	9.551764487	9.038451922	9.038881665	9.93532276	9.534188816	9.348632881	9.714759001
HMOX2	10.03732705	10.20170957	9.90909889	9.345890251	9.46899825	9.693674506	9.79811651	9.591877639	9.614608736	9.475447117	9.713900431	9.263581021	9.464906333	9.438119895	9.458349317			
GF2FA2	9.833792789	9.518525267	9.52803322	9.487171638	9.869694749	9.934275602	9.78681728	9.12462651	9.537650988	9.502902643	9.950280598	9.98901121	9.874662142	9.170598886	9.215813327	9.467441948	9.325168157	
GNPT1	9.728892409	9.834050535	9.837429417	9.531120777	9.53176255	9.53176255	9.53176255	9.53176255	9.53176255	9.53176255	9.405711911	9.63783078	9.30531369	9.574617444	9.251608874	9.577485527	9.473407072	9.450640337
CD2	9.898362389	9.396437482	9															

EVIS	8.945492308	9.65112574	9.581505175	9.543270571	8.96543166	8.913575402	9.259876412	9.515250698	9.574465726	9.718180669	9.11897078	8.390381773	7.545114334	9.497121385	9.6036063	9.679943495	9.71613776	9.380563083
DVYLB1	9.056454732	9.532184311	9.653248551	9.634872027	9.443405193	9.479711377	9.91371278	9.293925721	9.640108965	9.407913384	9.655779579	9.623115401	9.662512158	9.444879479	9.076626223	9.335276742	9.057133212	9.135854643
CDI80	9.344387372	9.957210032	9.252087386	9.634534266	9.104873667	9.150669739	9.25385832	9.30519545	9.9325127	9.874323127	9.646328199	9.033155191	9.675855874	9.00215157	9.275276002	9.72583871	8.964555686	9.283290274
LGALS5BP	9.517057746	10.02471843	9.490396854	8.047960279	9.520552029	9.394751234	9.494481051	9.200354721	9.988526569	9.873332333	9.592980813	10.47611147	9.06029537	10.256015	9.835273725	9.983236639	8.50143621	11.502998812
KQW11	9.761650251	9.455837373	9.405329511	9.455837373	9.580732895	9.452175296	9.318234573	9.759112738	9.499417399	9.759112738	9.46162826	9.915085257	9.040781875	9.749529519	9.509466198	9.362123824	9.711620922	9.588891973
UQLN2	8.531664906	9.452463538	9.513002081	9.662182398	9.375560108	9.375560108	9.375560108	9.375560108	9.375560108	9.375560108	9.375560108	9.375560108	9.375560108	9.375560108	9.375560108	9.375560108	9.375560108	9.375560108
DVYLC1H	9.483196726	10.24985266	8.721234463	9.978623513	9.258826023	9.106621385	9.563860633	9.637714247	9.343076964	9.543181671	9.374448073	9.390051046	8.964374416	9.547527449	9.750267299	9.52107334	9.966824321	9.79965132
ZNF146	9.259911036	8.828525052	8.873464085	9.98609135	10.133432035	8.887452198	10.41629832	9.049547823	9.840179876	9.554021196	9.495878479	9.730345698	9.103376529	7.276170008	9.178708265	8.75417410	9.508206116	9.945824256
KDM4C	9.997786599	9.129159721	9.897944187	10.1143263	9.82560344	9.475008149	9.620726376	9.325717103	9.548645733	9.603578584	9.187726291	9.616870009	9.60352978	8.04214467	9.256334686	9.525512764	9.62363175	9.27828778
SIK3	9.492258079	8.757660285	9.175031123	9.70586475	9.05549774	8.971071281	9.508546175	9.698901137	9.665796854	9.665796854	9.665796854	9.665796854	9.665796854	9.665796854	9.665796854	9.665796854	9.665796854	9.665796854
RB14	9.611232667	8.71673486	9.13862150	9.293763622	9.351106008	9.154679207	9.206656359	9.709494752	9.128881824	9.128881824	9.128881824	9.128881824	9.128881824	9.128881824	9.128881824	9.128881824	9.128881824	9.128881824
TWEM115	9.503391646	10.78242756	9.844548881	9.492589455	10.21895357	9.97518399	10.0558001	9.34614763	9.49657703	9.458741742	9.6416689	9.631340542	10.03957708	10.0114348	9.085294471	9.344686538	9.733780448	9.883662582
TRAP2	9.569955574	9.092577938	8.249650318	8.251144085	9.125144085	9.125144085	9.125144085	9.125144085	9.125144085	9.125144085	9.125144085	9.125144085	9.125144085	9.125144085	9.125144085	9.125144085	9.125144085	9.125144085
FAM179B	9.573818955	9.414832866	9.490406756	9.300767817	8.879938027	9.50877827	9.544506699	9.533127342	9.218674969	9.431492074	9.175056391	9.642752774	10.068465	9.544425806	9.446757949	9.861006281	9.736212858	9.641482215
UBRS	9.818487957	9.572491112	9.505362181	9.903192046	8.633277703	9.736746427	8.625438064	9.510452777	8.66514736	9.684910426	9.211411074	8.631590174	9.06719517	9.032097577	9.748479383	9.304489233	9.642786232	9.680858843
DDX27	9.451775012	9.759696724	9.590992187	10.1044884	8.621764352	9.572571607	9.290960556	9.337176588	9.644507372	9.340551134	9.588849825	9.089813993	9.751674966	8.86046536	9.54605434	9.651933775	9.336846285	9.343615013
CHMP3	10.08568432	9.473537781	9.314027168	9.10540788	10.23629816	9.688075694	9.539749008	9.163893899	9.866230289	9.522978956	9.522978956	9.522978956	9.522978956	9.522978956	9.522978956	9.522978956	9.522978956	9.522978956
DPH1	9.484450336	9.00186627	10.2358970	10.2358970	10.07651504	9.522336939	9.17849755	9.336263515	9.277202848	9.431598559	9.059688057	9.749197718	9.885927544	9.367976636	9.507528459	9.263230266	9.448890031	9.327828949
PSEN1	9.279782316	9.870239141	9.70584669	9.03473149	9.42042503	9.342424869	9.488876127	9.564536667	9.639232751	9.425201601	9.51467861	9.135991343	9.503004987	10.0440794	9.27490963	9.611358811	9.615173207	9.128265077
CS	9.25318667	9.570373708	9.273541745	9.639499792	9.216551975	9.380924694	9.498643152	9.744172674	9.408940344	9.545979309	9.662019586	9.360087073	9.131476193	8.753748873	9.897125733	9.492889420	9.552157139	9.82884652
TRAP2	9.46501717	10.38084852	8.807135458	9.32621096	8.472725135	9.76997181	9.40530663	9.596318759	9.954370341	9.571695965	9.812934221	9.574591655	8.404396612	9.625459647	9.461793969	9.453839757	9.453839757	9.453839757
SNK241	9.490638964	10.29198213	9.682231669	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391
SMARCE1	9.490638964	10.29198213	9.682231669	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391	9.49827391
MALTI	8.642557	8.45630400	9.406115881	9.79975313	9.49643806	8.985154573	8.414898213	9.711203034	9.490293974	9.396096863	9.924676388	9.524434507	10.27610685	8.625873773	9.868259739	10.0503977	9.788593188	9.780582938
STK40	9.146584339	9.901292949	9.344332094	9.569408099	9.069902978	9.699612418	9.277563055	9.711497446	9.241308178	9.549280418	9.808682998	9.870642247	9.525867916	9.462213357	9.865192569	9.811655935	9.811655935	9.811655935
CD19	8.83338975	9.306244348	9.098382159	9.655216338	9.60097508	9.100517264	9.341340103	9.085420057	9.830453247	9.830453247	9.830453247	9.830453247	9.830453247	9.830453247	9.830453247	9.830453247	9.830453247	9.830453247
SFBI	9.532805184	9.572508352	9.924960444	9.917504734	9.508642932	9.660893376	9.632079391	9.186142061	9.579004954	9.105206364	9.476526673	9.906739188	9.473938822	9.5458961	8.800189882	9.558525165	9.924232525	9.924232525
EGLN1	9.986402414	9.74626604	9.902637058	9.555581175	9.745727964	9.426374832	9.568577745	9.328923015	9.709108971	9.064784444	9.33641162	9.152694774	9.279031747	9.98675448	9.629390093	9.704525524	9.150221157	9.258045049
TWEM115	9.545952511	9.05639268	9.431854194	9.545952511	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194
IFST	9.940740216	10.15047429	9.270995233	9.471092929	9.379009029	9.386494235	9.074498959	9.406430421	9.90404723	9.90404723	9.90404723	9.90404723	9.90404723	9.90404723	9.90404723	9.90404723	9.90404723	9.90404723
MAGEH1	9.222696233	9.75974615	9.155024076	9.287880177	9.886160133	9.517385415	10.01879063	9.569776894	9.523641021	9.121120886	9.643352139	10.01484894	9.196699588	9.822736311	9.355350727	9.619939869	9.239761978	9.728912151
SDF2	10.08135479	9.675599492	9.888324067	9.877482116	9.591054956	9.301459214	9.127234628	9.408305129	9.408305129	9.408305129	9.408305129	9.408305129	9.408305129	9.408305129	9.408305129	9.408305129	9.408305129	9.408305129
GNR12	9.470960643	9.31218558	9.850905328	9.916380439	9.549556514	9.332075742	9.669950086	9.648304094	9.424532212	9.349724877	9.405723905	9.761894399	9.300251219	9.238050214	9.556770966	9.428792884	9.502338991	9.366991121
MLP20	9.919688415	9.854577481	9.641053714	9.841668689	9.802455258	9.560838875	9.303542535	9.819730272	9.157172957	9.842558351	9.567723967	9.60441959	9.931974218	9.321532529	9.55935992	9.434389926	9.434389926	9.434389926
NME4	9.086591587	9.874013103	10.06520709	9.402428959	9.488183493	9.635603138	9.750311376	9.191648521	9.891057058	9.573008917	9.479517011	8.74697002	9.1675891	9.72839596	9.053379968	9.528791093	9.2087358	9.899566778
TWEM115	9.545952511	9.05639268	9.431854194	9.545952511	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194	9.431854194
SCZ15A	9.293450645	9.287077115	9.2840704	9.2840704	9.2840704	9.2840704	9.2840704	9.2840704	9.2840704	9.2840704	9.2840704	9.2840704	9.2840704	9.2840704	9.2840704	9.2840704	9.2840704	9.2840704
PSMD1	9.780690613	9.23652128	9.337057812	9.393374525	9.792796209	9.50593998	9.430993863	10.00211739	9.563205362	9.890385581	9.336809589	10.049724379	9.429445285	9.928379739	9.538009041	9.690740108	9.457863990	9.434291267
UBA3	9.68702123	9.54254253	9.097202322	9.343229662	9.901062226	9.039608063	9.77761491	9.611865211	9.577206099	9.879068683	10.049278106	9.283186045	8.892272746	9.239989572	9.289961129	9.728961129	9.728961129	9.728961129
FEC4	9.308295352	9.960400493	9.960400493	10.07570389	10.14431345	9.874783366	8.489698646	9.400929778	9.66515407	9.27063356	9.20271397	10.00162004	9.979271428	9.534928585	9.056945772	9.876406582	9.407801357	9.427108395
CTR9	9.883946615	8.812038332	10.1948878	9.925694769	9.622757146	9.894403503	8.721918725	9.499261896	9.488597696	9.555016422	9.83739923	9.453626005	9.090210605	10.07307025	9.344568839	9.704064032	9.472758193	9.492208434
NLRP1	9.399647059	9.129095619	10.38219016	9.234954983	9.103412697	8.579676074	9.865791426	10.10147600	9.263088693	10								

ORC3	9.388146645	10.22332285	9.994770799	9.56763331	9.90729775	9.297662045	9.580795018	9.191193468	9.646729407	9.221186027	9.402280861	10.23570573	8.994278466	9.064150895	9.119679052	9.234156831	9.513786411	9.647142597
PR2RY10	8.533602489	9.748053378	8.794090853	9.783190723	8.754760588	9.68211962	9.933245073	9.14961627	9.92626878	9.236429408	9.120851346	9.371093304	10.06140095	9.204453078	9.667836083			
ITC	9.437173684	9.597637007	8.740094448	9.303177741	9.70122555	7.464319855	8.882531848	9.624964452	9.348304816	9.79465273	10.99991825	7.534288315	9.86389875	8.95421043	9.476891578	9.53307182	9.57763411	9.68010519
IGF1	8.849830172	9.773056752	9.189235945	8.378499342	9.741550481	9.854382994	9.621843168	9.762385379	9.52047733	9.318906739	9.37546362	9.35995885	8.481391942	9.263980315	9.630139706	9.232880325	9.427429901	9.12090355
ADZ1	9.130326143	9.470635633	9.470635633	9.078230249	9.470635633	9.470635633	9.234705138	9.270411639	9.36651249	9.26522249	9.67670766	9.599576693	9.525457001	9.734422957	9.752094691	9.24627346	9.457562186	9.371953347
RPAP2	9.566223866	9.72026168	9.661791996	9.86678799	9.621050477	9.621050477	9.621050477	9.621050477	9.72919679	9.368242012	9.368242012	9.368242012	9.368242012	9.368242012	9.368242012	9.368242012	9.368242012	9.368242012
DMT1F	9.762020679	9.037906345	9.168156207	9.257028448	9.688478791	9.855352909	9.144053568	9.500644431	9.393141611	9.594698794	9.40349102	9.251170995	9.081001572	9.077625023	9.98010231	9.576360477	9.99067976	9.421418966
NIPBL	9.505208123	9.952408412	9.390081384	9.381483261	9.035408412	9.035408412	9.035408412	9.035408412	9.035408412	9.035408412	9.035408412	9.035408412	9.035408412	9.035408412	9.035408412	9.035408412	9.035408412	9.035408412
MRFA11L	9.935835818	10.33486832	10.12332524	9.513997121	10.1860074	9.480783557	9.742497564	9.877994458	9.2752155	10.12960724	9.83688211	10.10178484	9.864412338	9.268089057	9.008019374	9.422287789	9.169173538	9.176244213
TMEM106B	9.953087805	9.24652038	9.765087805	9.765087805	9.24652038	9.24652038	9.24652038	9.24652038	9.24652038	9.24652038	9.24652038	9.24652038	9.24652038	9.24652038	9.24652038	9.24652038	9.24652038	9.24652038
ADH6A1	8.927890583	9.92845135	9.712101519	8.60421019	9.10208466	9.386077475	9.67006886	9.090496781	9.729750886	9.38257849	9.095714952	10.20753888	8.218268898	9.87958074	9.296418307	8.779114922	9.177475953	9.156536838
HWF1F	9.148177544	9.148177544	9.148177544	9.148177544	9.148177544	9.148177544	9.148177544	9.148177544	9.148177544	9.148177544	9.148177544	9.148177544	9.148177544	9.148177544	9.148177544	9.148177544	9.148177544	9.148177544
ADZ1	9.42372583	9.42372583	9.42372583	9.42372583	9.42372583	9.42372583	9.42372583	9.42372583	9.42372583	9.42372583	9.42372583	9.42372583	9.42372583	9.42372583	9.42372583	9.42372583	9.42372583	9.42372583
VPS13C	9.567108863	9.141403276	10.09891783	8.988776019	9.797468859	9.258201716	9.20773841	9.506278669	9.983946997	9.858180478	9.078337606	9.3006205	9.276537253	10.19393517	9.396151541	9.700484996	9.503845147	9.857308289
TOR1A1P2	9.672623723	9.132849317	9.456916315	9.132849317	9.456916315	9.132849317	9.132849317	9.132849317	9.132849317	9.132849317	9.132849317	9.132849317	9.132849317	9.132849317	9.132849317	9.132849317	9.132849317	9.132849317
PCOD5	9.780741113	9.95032501	9.367489923	9.52931342	9.61938081	9.186196646	9.346613013	9.023510313	9.528028733	9.162112533	9.155798706	9.64635825	10.0445322	9.154730952	8.870452912	9.210522043	9.125952073	9.849671719
FAAP100	9.53120754	9.23480332	9.861758484	9.366202434	8.961758484	9.696912932	9.620752216	9.2910163	9.702443793	9.896841608	9.805598751	9.987657408	9.159048163	9.570312099	9.065406615	9.75897474	9.127886948	9.261486878
PIOD1	8.974644325	9.179830411	9.052099148	9.962807748	9.008178324	9.208626001	10.00210777	9.303364366	9.587308302	9.177278602	9.74056264	9.478766942	9.672613653	8.603283988	9.514029369	9.415387123	9.11068621	9.594902111
ALG12	8.991552265	9.561459386	9.12319917	9.392301748	9.19159765	9.767591137	9.43187247	9.435257968	9.458620071	9.11717056	9.11717056	9.798371786	10.02575384	9.858125387	9.835613161	9.343566641	9.401832348	9.743420982
ZH2Z	9.516380487	9.839603335	9.397197089	9.286621145	9.531774571	9.42726309	9.17341308	9.852659692	9.422749531	9.724656334	9.466260684	9.371417654	9.112421722	9.42474881	9.544753671	9.529528086	9.462847985	9.021468801
TSEN4	10.134934448	9.538188872	9.722690799	9.425489269	9.915610358	9.915610358	9.7454742	9.12108312	9.534154862	9.230721827	9.230721827	9.230721827	9.230721827	9.230721827	9.230721827	9.230721827	9.230721827	9.230721827
ZPTD1	9.447082479	9.237250795	9.68572423	9.444267423	9.127842113	10.0108387	9.714694807	9.832858519	9.41834945	9.958568683	8.503147088	8.62937984	8.11076638	9.548343873	9.928185032	9.47016665	9.802578296	9.328578296
KHL5	9.54051985	9.947984714	9.13232207	10.00362565	9.340177383	10.457359312	10.33523	9.513275624	9.76766854	9.51628844	10.00771008	9.42405073	9.538287492	9.533286964	9.221743109	9.377222676	9.367619001	9.309238842
THAP7	9.986276465	10.09082526	9.164730861	9.074372412	9.701930464	9.074372412	9.074372412	9.074372412	9.074372412	9.074372412	9.074372412	9.074372412	9.074372412	9.074372412	9.074372412	9.074372412	9.074372412	9.074372412
HIA-DA1	9.715189986	9.064748914	9.256742994	8.370875667	9.533606511	9.105703121	9.395742852	9.421956165	9.274295348	9.497233471	9.583875695	9.77578991	8.607641384	9.457564679	9.674126881	9.626076004	9.779276381	9.299026029
UBE2M	9.767713436	9.785778764	9.425080856	9.468583939	9.748446639	9.602293596	9.703289007	9.348752483	9.460619337	9.125618371	9.40291828	9.256653839	9.426829444	9.743339038	9.271304138	9.31757441	9.284450151	9.565653476
NR2F	9.635384969	9.485134584	9.064748552	9.064748552	9.064748552	9.064748552	9.064748552	9.064748552	9.064748552	9.064748552	9.064748552	9.064748552	9.064748552	9.064748552	9.064748552	9.064748552	9.064748552	9.064748552
MUT	9.877899598	9.446350922	9.320583013	9.969815129	9.981938153	9.243662793	9.43567052	9.178474724	9.124456751	9.523780616	9.195740133	9.815000222	9.624521185	9.912901922	9.429545661	9.449780773	9.331443084	9.615403754
VAT1	9.94675933	9.363656098	9.43347773	9.866311852	9.526340246	9.452039399	9.601939281	9.504195617	9.601939281	9.349450831	9.45561364	9.349501552	9.610161325	9.153297256	9.6048293	9.507829471	9.236427748	9.748040168
FOXP1	9.238098319	8.870644129	9.857409348	9.531480618	10.04522373	8.94718161	9.61407576	9.424897009	9.349450831	9.4914318	9.45561364	9.349501552	9.610161325	9.153297256	9.6048293	9.507829471	9.236427748	9.748040168
TUT1	9.1698561	9.25641029	9.399910557	9.1698561	9.25641029	9.399910557	9.1698561	9.25641029	9.399910557	9.1698561	9.25641029	9.399910557	9.1698561	9.25641029	9.399910557	9.1698561	9.25641029	9.399910557
ARPC5L	9.36110423	9.680464742	9.374757508	9.433591767	9.691099133	9.724796	9.17363254	9.184629488	9.789175592	9.099872343	9.44854464	9.55240939	10.16008887	9.464038743	9.336519063	9.347806205	9.13712391	9.274799407
WH1	10.2659717	9.361973988	9.108275214	9.361973988	9.108275214	9.361973988	9.108275214	9.361973988	9.108275214	9.361973988	9.108275214	9.361973988	9.108275214	9.361973988	9.108275214	9.361973988	9.108275214	9.361973988
STK11	9.189432816	9.10140525	9.684856665	9.10140525	9.684856665	9.10140525	9.684856665	9.10140525	9.684856665	9.10140525	9.684856665	9.10140525	9.684856665	9.10140525	9.684856665	9.10140525	9.684856665	9.10140525
INTS8	9.100874485	9.379428992	9.796142576	9.48970453	10.2108527	8.616295703	9.95877695	9.093348446	9.426543957	9.544523314	9.58944584	10.10195466	9.546571144	9.742715164	9.479357679	9.440033554	9.376211169	9.294177023
NUGC	9.50461789	9.505296337	9.062436958	9.504315879	9.63592493	8.902488192	9.81031216	9.27662135	9.278702745	9.27029982	9.496429984	9.705617284	9.094034887	9.597490679	9.518573429	9.525188279	9.405508727	9.307396727
ZDHX4C	9.624546524	9.96369164	9.85995333	10.07878136	9.596843832	9.21198689	9.163796549	9.07760188	9.258429397	9.35569138	9.513899192	9.783889548	10.29284792	9.145581163	9.237761821	9.640441588	9.05258881	9.539346043
DCN3	10.04256024	9.93107522	9.834641969	9.376089577	9.426668296	10.15253676	9.774932534	9.174864471	9.414387603	9.376089577	9.376089577	9.376089577	9.376089577	9.376089577	9.376089577	9.376089577	9.376089577	9.376089577
PKRAC	9.54601948	10.01233746	9.54601948	9.54601948	10.01233746	9.54601948	10.01233746	9.54601948	10.01233746	9.54601948	10.01233746	9.54601948	10.01233746	9.54601948	10.01233746	9.54601948	10.01233746	9.54601948
SUCLG2	9.44352891	9.13849381	9.901251136	9.838519259	9.660215762	9.33009877	9.69728115	8.838031792	9.269162823	9.269162823	9.38155119	9.72037096	9.269081627	8.541413127	9.062813228	9.546664248	9.128489721	9.712008554
NUK1	9.423936587	9.49512376	9.423936587	9.49512376	9.423936587	9.49512376	9.423936587	9.49512376	9.423936587	9.49512376	9.423936587	9.49512376	9.423936587	9.49512376	9.423936587	9.49512376	9.423936587	9.49512376
ANP32	9.70568037	9.213548951	9.478405354	9.498886808	9.494178886	9.775144377	9.276967763	9.139499233	9.763954572	9.164770949	9.59307527	9.427810161	9.546809528	9.1880054				

LARP4	8.917274256	8.411233266	8.919369708	8.866762655	9.091780828	9.52002569	9.039895822	9.460242507	9.47230584	9.253283862	9.480220285	9.622430009	9.498539975	9.357579223	9.540260979	9.495364429	9.324660565	9.726959201
FAM174A	9.711646109	9.343266084	9.397380094	8.753737666	9.819854864	9.739435708	10.00066714	9.263707237	9.22786202	9.491141695	9.521143196	9.961251695	9.547979104	9.145480089	9.445420212	9.315878995	9.489442529	9.186452132
RMH47	9.4165270882	9.494457197	9.517527666	9.266589823	9.494457197	9.517527666	9.266589823	9.494457197	9.517527666	9.266589823	9.494457197	9.517527666	9.266589823	9.494457197	9.517527666	9.266589823	9.494457197	9.517527666
NSUN2	9.377914031	9.234140403	9.407939887	9.922529097	9.243113523	9.520595902	8.628981422	9.347182795	9.602283299	9.660543741	9.437646579	9.312832814	9.173493957	8.61245454	9.603570278	9.699395531	9.528388852	9.450909705
DKS	9.471126403	8.541327004	8.446951724	9.426737904	9.138274869	9.138274869	8.483241187	9.550966991	9.397895016	9.397895016	9.397895016	9.397895016	9.397895016	9.397895016	9.397895016	9.397895016	9.397895016	9.397895016
RF1	9.626414549	9.824933655	9.718429046	9.194552167	9.194552167	9.194552167	9.194552167	9.194552167	9.194552167	9.194552167	9.194552167	9.194552167	9.194552167	9.194552167	9.194552167	9.194552167	9.194552167	9.194552167
GOLBAR	8.437259198	9.948757063	8.896609511	9.578547406	10.11023509	9.837339634	9.561780625	8.820888001	9.412422441	9.793472137	9.404477727	8.86629254	9.384448939	8.20387855	9.816425007	9.508532194	9.431034832	9.548108554
GABARAFL1	9.185949259	9.143034366	9.248066543	9.945920839	9.238439595	9.361408396	9.210981843	9.941811054	10.15990133	9.941811054	10.15990133	9.941811054	10.15990133	9.941811054	10.15990133	9.941811054	10.15990133	9.941811054
CAPN7	9.107853684	9.807381121	9.706527055	10.2520376	9.843765205	9.695952704	8.800232106	9.261901242	9.399920992	9.778528201	9.412081541	9.817783696	8.90152791	8.953730265	9.472146683	9.93073355	9.944398676	9.281177902
TNP01	9.975259016	8.514788884	9.026248054	9.320283079	9.320283079	9.320283079	9.320283079	9.320283079	9.320283079	9.320283079	9.320283079	9.320283079	9.320283079	9.320283079	9.320283079	9.320283079	9.320283079	9.320283079
CABL51	8.790831068	9.138706828	8.603399628	9.809747188	9.281693107	8.665039421	8.603399628	9.809747188	9.281693107	8.665039421	9.809747188	9.281693107	8.665039421	9.809747188	9.281693107	8.665039421	9.809747188	9.281693107
RASA3	9.898880296	9.591551157	9.543067176	9.294466066	9.197370496	9.108759501	9.695979992	9.375016047	9.729458518	9.455689583	9.804977484	9.959869898	9.230175471	8.899943888	9.932788211	9.191966463	9.213960498	9.254434791
CSF6	9.255649588	9.305094312	8.627878708	10.2980711	9.057748013	9.410291206	9.396239663	9.412211376	9.351009493	9.732432663	10.07648744	10.08598751	9.138978667	9.717270532	9.29594979	9.25324657		
BRD7	9.596479589	9.380030067	9.197884854	9.309698004	10.30583899	9.875020502	10.01619145	9.413324353	9.582592816	9.296007576	9.390181143	9.358222292	9.032657705	9.503000044	9.503408091	9.406560888	9.400179265	8.97414514
COP55	9.774205084	9.290294558	9.862576245	9.373213738	9.940330303	9.825020489	9.291713429	9.119484726	9.684737759	9.425959649	8.843451382	9.544631944	9.065877593	9.290252378	9.490270587	8.854490505		
CYTH2	9.378213356	8.402544812	9.892937119	10.04208299	9.394280531	9.966483034	9.707408688	9.297306068	9.410439267	9.80395194	9.370335841	10.24960095	9.669519744	9.200141898	9.354199251	9.578538863	1.69822557	9.40838717
SGK3	9.860187229	8.450669432	8.450669432	8.450669432	8.450669432	8.450669432	8.450669432	8.450669432	8.450669432	8.450669432	8.450669432	8.450669432	8.450669432	8.450669432	8.450669432	8.450669432	8.450669432	8.450669432
GOLG8B	8.824060366	9.038951297	8.389209621	10.10820989	9.738956343	9.256113659	8.779695601	10.447261583	8.456713397	9.40825035	8.703199723	9.005025592	9.060898298	9.54082163	9.904872175	9.623895814	10.24947345	10.02958038
AZ2	9.30056518	9.008693915	9.319113906	9.616382973	9.685198427	9.510918244	9.511916768	9.142250183	9.456054111	9.240013929	9.345030217	9.987401276	9.693149694	9.619040987	9.24445189	9.543758677	9.14577138	9.725101679
KDML1	9.42841878	9.748543044	9.559834661	9.13979749	9.513011477	9.71052047	9.174805718	9.902579885	9.285937205	9.38594192	9.127715316	9.604127174	9.679907979	9.60672458	9.188405798	9.53656806	9.163271688	9.750326076
TURG1	9.298201505	9.22323323	9.870315534	9.965791542	9.965791542	9.965791542	9.965791542	9.965791542	9.965791542	9.965791542	9.965791542	9.965791542	9.965791542	9.965791542	9.965791542	9.965791542	9.965791542	9.965791542
SLC7A	9.207845423	10.03748523	8.849447374	9.764874112	8.731595725	8.996711891	8.67792221	9.3280284514	9.102402197	9.168677174	9.289848187	9.94025759	9.683275166	9.144697378	9.12372442	9.349786267	1.886575282	9.38371123
RUVB1L2	9.695271553	10.17490041	10.15787483	9.02419007	9.134483792	9.414465023	9.706435791	9.192529722	9.410910247	9.168677174	9.289848187	9.94025759	9.683275166	9.144697378	9.12372442	9.349786267	1.886575282	9.38371123
ALG9	9.155279078	9.229670873	9.862915017	9.945397046	9.461322672	9.945397046	9.461322672	9.945397046	9.461322672	9.945397046	9.461322672	9.945397046	9.461322672	9.945397046	9.461322672	9.945397046	9.461322672	9.945397046
DL1	9.518581694	9.38611948	9.405623667	9.93026875	9.88993302	9.482993302	9.88993302	9.482993302	9.88993302	9.482993302	9.88993302	9.482993302	9.88993302	9.482993302	9.88993302	9.482993302	9.88993302	9.482993302
LWRD1	9.37949043	9.825055624	9.451302945	9.52035504	8.787759998	9.825055624	9.120193784	9.810967003	9.704128177	9.41325949	9.10452615	9.75178985	9.97126279	9.530336535	9.133273494	9.41447551	9.18423413	9.95535066
KIAA1033	9.498193988	9.347030722	9.671904001	9.326773934	9.187365629	9.546013951	9.11359601	9.860313818	9.607510665	9.459994745	9.6751022	9.06025223	10.04876622	9.747723221	9.638041286	9.516157682	9.26677172	9.59206116
TMUB2	9.495412978	9.594800015	9.9344355	9.94468205	9.533876822	9.625137578	9.201807973	9.451036615	9.829381351	9.264237852	9.64283502	9.134112384	9.156262661	9.35712801	9.11664605	9.956967608	9.10294798	
CR2	8.807181893	9.960409279	9.386136844	9.965516076	9.815290293	8.921553863	8.789639151	9.257681501	9.239883787	9.772615254	8.89957118	8.99531278	9.401880663	9.835288672	9.765158968	9.821266354	9.432963844	9.553146117
AR1F2	9.376594999	9.318598643	9.318598643	9.318598643	9.318598643	9.318598643	9.318598643	9.318598643	9.318598643	9.318598643	9.318598643	9.318598643	9.318598643	9.318598643	9.318598643	9.318598643	9.318598643	9.318598643
WRD61	9.2463316	9.96820925	9.868633845	10.04891018	9.664972168	9.667761181	9.409183136	9.02686255	9.535686057	9.83406264	9.37658384	9.74122796	9.913236853	9.293481297	9.049429568	9.220327446	9.141878454	9.16301444
CYB81	9.499983103	9.395416667	9.86241699	9.059928564	9.590819487	9.5021151	9.394889399	9.172498647	9.61364612	10.08703366	9.498149124	9.592003591	9.246147894	9.101363005	9.13634931			
STK38	9.403411116	9.717896242	7.99643064	8.25830301	8.300712394	10.00923423	9.215764573	9.697006715	9.211066857	9.097201347	9.380633351	9.688199662	8.450225566	10.06338875	10.23031518	9.220133603	9.521769747	10.07985688
YKPF1	9.00985092	9.409736631	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085
SNK25	9.380066639	9.605348271	9.605348271	9.605348271	9.605348271	9.605348271	9.605348271	9.605348271	9.605348271	9.605348271	9.605348271	9.605348271	9.605348271	9.605348271	9.605348271	9.605348271	9.605348271	9.605348271
TPR41	9.925188707	8.12510877	9.428498889	9.533049054	10.10886910	9.145932378	9.985262834	9.16328614	9.372735275	9.33920402	9.409351917	9.50256865	9.98989559	9.56145096	9.865789218	9.25662933	9.163320697	9.345506539
PHK62	9.49796465	9.618925146	9.282254466	9.599465769	9.18515103	9.812875276	9.721959955	9.388983722	9.17363177	9.924725311	9.322371626	9.50545076	9.818830687	9.617855884	9.391469544	9.36138778	9.591942768	9.5357396
MPFG	9.52916519	10.15668911	9.75450625	9.384824636	9.957468975	9.850870108	9.93580188	9.255280407	9.612234343	9.181547398	9.322006853	9.714079106	9.99443975	9.516548204	9.23534441	10.019690829	12.16635938	9.18829675
LEPOT	10.82053459	9.76057886	8.823137029	9.442076514	9.727778213	9.442076514	9.727778213	9.442076514	9.727778213	9.442076514	9.727778213	9.442076514	9.727778213	9.442076514	9.727778213	9.442076514	9.727778213	9.442076514
HUA-DB	9.08938696	9.589255643	9.825820444	9.628280001	8.300712394	10.00923423	9.215764573	9.697006715	9.211066857	9.097201347	9.380633351	9.688199662	8.450225566	10.06338875	10.23031518	9.220133603	9.521769747	10.07985688
YKPF1	9.00985092	9.409736631	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085	9.12769085
EP2M1A1	9.257272591	9.051450498	8.899070064	9.850971205	9.153409061	9.146728648	8.846490363	9.716977038	9.397504314	9.172109209	9.391774081	9.719196471	10.470335	10.1				

NCPB2	9.38453177	9.25028914	9.586603828	9.754844207	9.45676672	9.566257955	9.312453361	9.145373051	9.349684619	9.19273571	9.533764592	9.758532637	10.06662421	8.407238121	9.070893873	9.506849298	9.319236512	9.312198152
PRRFB	9.383889259	9.423869064	9.125060832	9.381524154	9.001369945	9.723991834	8.891043957	9.446920893	9.446920893	9.271913265	9.057427867	9.540210635	9.746514847	9.886235228	9.649418467	9.183879288	9.598466713	9.351507618
MAPK9	9.50943182	8.638427462	9.443529637	9.793239232	9.438295342	9.438295342	9.307246647	8.862125548	9.421864163	9.358742755	9.729317547	9.797842475	9.535405843	9.373413183	9.308176786	9.663421225	9.589073681	8.930695825
FFGS	9.624294936	9.591421252	9.595388493	9.479111657	9.188791257	9.785811095	9.375194004	9.139513826	9.140170346	9.090242786	9.205748795	9.356860417	9.69825293	10.03008664	9.111906227	8.785202325	9.047126634	9.466010818
CFP7	9.692133687	9.43124268	9.855211741	9.783786251	9.66126685	9.585617781	9.071898087	9.048959957	9.167166057	9.216371803	9.651304625	9.529242608	9.135105933	9.652624008	9.293268264	9.511448965	9.313746109	9.596373736
COA1	9.178211921	9.071956899	9.579358741	9.377911659	9.901486589	10.18737713	9.318678833	9.150940415	9.351060687	9.59034215	9.351060687	9.68403514	9.230222065	9.178274472	9.323880788	9.533985715	9.222501886	9.222501886
ADGR5	9.764280307	9.765001763	9.745342053	9.748252238	8.99411621	8.876191625	9.805238853	9.2812129	9.065909557	9.444727943	9.259436131	9.764059645	9.916432974	9.511928872	9.181431165	9.066731669	9.536131402	9.915756248
Clorf122	9.603735598	10.14125725	9.465276015	9.570539856	9.522677131	9.348998881	9.379640061	9.152263925	9.02936265	9.90104147	9.152263925	9.699807102	9.88391954	9.927210915	9.169101477	9.839597874	9.184211473	8.964030319
CARS2	9.923840006	9.395292953	9.426214877	9.670477574	9.628152268	9.142483066	9.556888842	9.242300464	8.814349895	9.41583789	8.82965032	9.396896975	9.499747529	9.100481122	9.395737503	8.874145082	9.32746538	9.004112236
DTW01	9.364854311	9.472064753	9.165994301	9.4383436	9.472064753	9.723499455	9.356882169	9.687497453	9.029105802	8.700130793	8.843363066	10.2069197	9.723261525	9.693185559	8.484085771	9.542512547	0.056694008	9.242412243
LPCNS1	9.367405594	9.377076577	9.4383436	9.472064753	9.472064753	9.29286104	9.988922716	9.512343484	9.125243484	9.445165008	9.66868923	9.130964293	9.153746811	9.354260852	9.147328109	9.579752547	9.302231647	9.907926236
FNK3P	9.700704886	9.620438403	9.973788879	9.939670157	9.564291102	8.782378153	8.867517933	9.248257266	9.105145129	9.404468801	9.603212159	9.893455737	9.62975165	9.473023473	9.489593936	9.22138509	9.228352352	9.516554458
UNOS	9.080615512	9.610546419	9.553990162	9.5790255	10.08138933	9.796881766	9.104605552	9.104605552	9.114774042	9.084688877	9.5400729	9.373009481	9.4735878181	9.374908506	8.915523403	9.039546197	9.347913358	9.255999999
MYO18A	9.944479649	9.21932519	8.75063342	9.164265335	9.777187514	8.727818258	9.22958278	9.596873154	9.951467702	8.860000582	9.084939528	8.278259023	10.0138907	9.389853664	9.767200033	9.461485787	9.74176517	9.330560679
AP5M1	9.915874277	9.337106193	9.5143678	9.5143678	8.74702662	8.874072818	8.870003206	9.438867235	9.981871785	9.399976352	9.051100499	8.664182693	9.575078965	9.029816935	9.36411535	9.005313172	9.305513288	9.305513288
CLASP1	7.505702568	9.761564902	7.921122978	9.256419858	7.908171883	9.186316719	9.6045236	9.375664772	9.767938586	10.10327384	9.845308151	9.342229611	7.681592006	9.759888342	9.914854674	9.602322298	10.05846315	9.619433626
CD26	9.66718472	9.095641286	9.29567392	9.574195831	9.507602392	9.653153486	9.206280243	9.900241029	9.276516806	9.022135493	9.412284122	10.0320813	9.762627683	9.5881536	9.755205003	9.173648885	8.910937387	9.092141781
CHD7	8.667183339	9.806119921	9.806119921	9.806119921	9.806119921	9.806119921	9.806119921	9.806119921	9.806119921	9.806119921	9.806119921	9.806119921	9.806119921	9.806119921	9.806119921	9.806119921	9.806119921	9.806119921
PSCK7	10.08831676	9.367892922	9.361148706	9.260611992	9.018801984	9.799973364	8.8351048	9.702687936	9.12741431	9.87509613	9.354800517	9.321007636	9.090365633	9.272029539	9.706102411	9.502953946	9.688452465	9.779459593
REST	9.722429207	9.918999933	9.173490906	9.029627274	9.175343439	9.734586533	9.319710008	9.325153575	9.119501956	9.118775816	9.314230281	9.445545748	10.4255124	9.624849996	9.388688962	9.262277263	9.417062127	9.417062127
HRHG4	9.416608935	9.195190425	9.195190425	9.195190425	9.195190425	9.195190425	9.195190425	9.195190425	9.195190425	9.195190425	9.195190425	9.195190425	9.195190425	9.195190425	9.195190425	9.195190425	9.195190425	9.195190425
TMEM104	9.707326105	9.955602045	9.243140755	9.3866474	9.281564679	9.563640099	9.38298777	8.711212911	9.427604482	9.734646935	9.38298777	9.468392177	9.931513658	9.5364251	9.94796195	9.82821236	9.476042027	9.476042027
SART1	9.438766042	10.08561501	9.132958192	9.557560977	8.857464489	10.01564813	9.322791618	9.284661864	9.309281624	9.341205806	9.293110467	9.387406616	9.463703574	9.978702255	9.058035664	0.033241116	9.371044203	9.107426065
ASMTL	9.141437599	9.142894874	9.198506345	8.896076331	8.839458411	9.52008789	9.388065163	9.373223998	9.761068792	9.912898228	9.337445766	9.785025575	9.854629454	9.328408654	9.233576785	9.676474378	9.716985832	9.110355592
POCD10	9.487601104	8.201954277	9.887479053	9.887479053	9.887479053	9.887479053	9.887479053	9.887479053	9.887479053	9.887479053	9.887479053	9.887479053	9.887479053	9.887479053	9.887479053	9.887479053	9.887479053	9.887479053
GT2	9.759640768	9.259459201	9.649201249	9.841705378	9.810052082	8.606557194	9.457393123	8.800227787	9.280725448	9.669936993	9.303393471	9.280812175	9.267136584	9.403030691	9.214160823	9.609258165	9.641081514	9.374803311
SFSP1	9.659876207	8.800853397	9.185095582	9.354356036	9.382374438	9.285510338	9.447179489	9.711924066	9.308558883	9.576484198	9.304540078	9.258129175	9.998520175	9.111780008	9.902270443	8.700276121	9.399986894	9.518465886
CFP7	9.692133687	9.43124268	9.855211741	9.783786251	9.66126685	9.585617781	9.071898087	9.048959957	9.167166057	9.216371803	9.651304625	9.529242608	9.135105933	9.652624008	9.293268264	9.511448965	9.313746109	9.596373736
SNR	9.493145686	9.748252238	9.635248676	9.635248676	9.635248676	9.635248676	9.635248676	9.635248676	9.635248676	9.635248676	9.635248676	9.635248676	9.635248676	9.635248676	9.635248676	9.635248676	9.635248676	9.635248676
MTERF4	9.547949686	9.846574908	9.053486015	9.072619027	9.725269862	9.51032729	9.477338249	9.327349596	9.373224339	9.060684248	9.402487376	9.297949131	9.797398352	8.863767978	9.329357727	9.293064211	9.878055152	9.299369772
MRP35	9.878159064	9.661864574	9.661864574	9.661864574	9.661864574	9.661864574	9.661864574	9.661864574	9.661864574	9.661864574	9.661864574	9.661864574	9.661864574	9.661864574	9.661864574	9.661864574	9.661864574	9.661864574
CLPTM1	9.348188619	9.533996332	9.592818498	9.592818498	9.592818498	9.592818498	9.592818498	9.592818498	9.592818498	9.592818498	9.592818498	9.592818498	9.592818498	9.592818498	9.592818498	9.592818498	9.592818498	9.592818498
ARRC1	9.462726788	9.493983471	9.493983471	9.493983471	9.493983471	9.493983471	9.493983471	9.493983471	9.493983471	9.493983471	9.493983471	9.493983471	9.493983471	9.493983471	9.493983471	9.493983471	9.493983471	9.493983471
GOLP18	9.800493516	8.999311025	9.293157678	9.061467247	9.58830738	9.903212856	9.403734397	9.164061676	9.631420278	9.608464518	9.067796749	9.82896013	8.65368835	9.68785896	9.062278693	9.026447593	9.462559233	9.879615751
HIKSH	9.37441452	9.194795711	9.696610592	9.194795711	9.194795711	9.194795711	9.194795711	9.194795711	9.194795711	9.194795711	9.194795711	9.194795711	9.194795711	9.194795711	9.194795711	9.194795711	9.194795711	9.194795711
UNOS	9.080615512	9.610546419	9.553990162	9.5790255	10.08138933	9.796881766	9.104605552	9.104605552	9.114774042	9.084688877	9.5400729	9.373009481	9.4735878181	9.374908506	8.915523403	9.039546197	9.347913358	9.255999999
LINC00489	9.858001004	9.480275046	9.840134443	9.840134443	9.840134443	9.840134443	9.840134443	9.840134443	9.840134443	9.840134443	9.840134443	9.840134443	9.840134443	9.840134443	9.840134443	9.840134443	9.840134443	9.840134443
ZBT10	9.147192685	8.740550706	9.583148474	9.602215516	9.019265022	9.840170358	9.132927343	9.374357348	9.348306725	9.513427495	9.199245336	8.665459816	10.26082349	9.353681265	9.344305894	9.10478579	9.128276774	9.128276774
BRD4	9.198236615	9.050418344	9.11594878	9.55569073	9.048283004	9.435310536	9.1480909318	9.336595417	9.480909318	9.460558815	9.579918145	8.840676791	9.422227911	8.894607104	9.72466286	9.502371918	9.244047649	9.57565035
SPG20	9.329178739	9.255427506	9.716782949	9.586146692	9.582106454	8.877723867	9.510726472	8.626907962	9.379821287	9.984317061	9.480266978	9.310058987	9.316042986	8.813571475	9.72117089	9.391297074	9.362904598	9.607656929
AMFR	9.45705807	9.955446611	9.955446611	9.955446611	9.955446611	9.955446611	9.955446611	9.955446611	9.955446611	9.955446611	9.955446611	9.955446611	9.955446611	9.955446611	9.955446611	9.955446611	9.955446611	9.955446611
PFND1	9.755110237	10.155326378	9.920137283	9.920137283														

RBCK1	9.398420357	9.948611215	9.515430372	8.965980612	9.496511375	9.68627654	9.183692502	9.024995361	9.54283566	9.23268883	9.01819786	9.222292948	7.645853185	9.97108381	8.52775479	8.897046483	9.077296445	9.525300846
GBAS	9.684063979	9.681550591	9.112296939	9.653811281	9.302535848	9.452370652	9.409725652	9.985971029	9.27207551	9.218780012	9.064545078	9.036915321	9.327776834	9.919802417	9.994868953	9.601652771	9.193573516	9.493576502
TMEM418	9.435989989	9.644428359	9.969719717	9.51911133	9.31766016	9.132376158	9.368079291	9.130389968	9.234946152	9.309980211	9.368579185	9.604311678	9.074543438	9.810490279	9.445808564	9.807168487	9.074315513	9.547274142
HACD3	9.527945212	9.258670244	8.853943991	9.724526096	9.632563334	9.270985002	9.20096675	9.122125634	9.612313639	9.425776773	9.355866212	9.719609445	8.582846741	9.742575479	9.183967869	9.170461194	9.214961203	9.586891078
VPSG4	9.930847045	9.16486448	9.062322384	9.807693589	9.807693589	9.807693589	9.807693589	9.807693589	9.807693589	9.807693589	9.807693589	9.807693589	9.807693589	9.807693589	9.807693589	9.807693589	9.807693589	9.807693589
TTIL	9.552566383	9.7727276	9.378034049	9.930643024	9.512374952	9.37352023	9.852047649	8.852047649	9.135363138	9.852047649	9.852047649	9.852047649	9.852047649	9.852047649	9.852047649	9.852047649	9.852047649	9.852047649
HTRA2	9.888504607	9.86424654	9.498359629	9.217305362	9.89636605	9.618906322	9.587234426	8.891430471	9.529500341	9.12901173	9.505056094	9.351672473	9.100507514	9.057969991	8.834832892	9.27526274	9.065784478	9.195027071
MAFF	9.907128137	9.189397336	7.863930329	9.396563598	9.67807652	9.33966697	9.33966697	9.33966697	9.33966697	9.33966697	9.33966697	9.33966697	9.33966697	9.33966697	9.33966697	9.33966697	9.33966697	9.33966697
SMCIA	8.834493946	9.057055182	7.58406541	8.246523894	9.122625909	9.632361248	9.953025422	9.746114948	9.549970772	9.264035057	9.749972698	9.6013562	8.114095658	9.13876598	9.13067017	9.17202143	9.294904884	9.288333333
ODF38	9.123223633	9.165632526	8.571150453	8.976324086	9.225000389	9.303410426	9.225000389	9.403434855	9.127999411	9.109747615	9.547759553	9.41377675	9.543219467	9.879688087	9.70166111	9.895948626	9.399294717	9.399294717
HUA-DMA	8.850673863	8.522763266	9.090043351	8.669306683	9.306386966	9.319278405	9.027784405	9.769031548	9.32231853	9.139482447	9.453813463	9.351875001	9.50430781	9.740818399	9.029445678	9.507813989	9.91770959	9.91770959
ATOK1	9.446366634	9.568617487	9.995571484	9.118356484	9.995571484	9.995571484	9.995571484	9.995571484	9.995571484	9.995571484	9.995571484	9.995571484	9.995571484	9.995571484	9.995571484	9.995571484	9.995571484	9.995571484
SUD3	9.133140635	9.13740635	9.938076471	9.631804635	9.782170148	9.373582023	9.104867037	9.361803667	9.361803667	9.361803667	9.361803667	9.361803667	9.361803667	9.361803667	9.361803667	9.361803667	9.361803667	9.361803667
MRPL3	9.474070281	9.590898889	9.61166535	9.374097589	9.538902235	9.756988665	9.416934552	8.684174321	9.915354153	8.85552231	9.879238927	9.523155272	9.55661089	9.143255328	8.830629363	8.851399885	9.20108906	9.242770193
GOSR1	9.655880002	9.208730812	9.287720041	9.125678734	9.383051766	9.60645887	9.874041331	9.027150985	9.46216935	9.30403664	8.989544485	9.095119641	9.101846787	9.209127271	9.656497185	9.311402509	9.744101848	9.744101848
WHRN	9.019190424	9.593857162	9.195431271	9.366728668	8.658609393	9.406828914	9.415235789	9.13601952	9.79674854	9.398043263	8.886211047	8.531384622	9.800844144	9.638689829	9.677638527	9.245728968	9.11064263	9.109445444
SIPA1	9.404636334	8.557017959	9.00928356	9.18810818	9.473446789	9.989836962	9.399562304	9.134064675	9.39562304	9.134064675	9.296360201	9.266433613	9.103318589	9.50120351	9.343281224	9.90061471	9.096857127	9.811527667
PHTF1	9.191288455	9.387360646	9.970871386	9.387360646	9.57613993	9.976205933	9.976205933	9.976205933	9.976205933	9.976205933	9.976205933	9.976205933	9.976205933	9.976205933	9.976205933	9.976205933	9.976205933	9.976205933
GOLG7	9.137810827	9.225043645	9.491412865	9.349434528	9.085949624	9.362331088	9.329428465	8.571470035	9.160713209	9.256780252	8.88402152	9.806002253	9.786647197	9.10017029	9.257617939	9.53033942	9.391556716	9.509449476
ATB1	9.887517065	9.981235198	9.827038688	8.976779201	9.11221136	9.72821607	9.981628008	9.86267974	9.019973859	9.418017095	9.08370509	9.24815467	9.236139059	9.111781443	9.23910753	9.276417717	9.565264768	9.72989439
DEWDA4	8.245172862	8.710737958	8.707073567	8.465940427	9.404774753	9.101205651	9.101205651	9.101205651	9.101205651	9.101205651	9.101205651	9.101205651	9.101205651	9.101205651	9.101205651	9.101205651	9.101205651	9.101205651
ATAD1	9.123778418	9.48851971	9.48851971	9.57404102	8.803748156	9.474880034	9.476899441	9.328481122	9.274880034	9.328481122	9.57344618	9.583886838	8.826026514	9.480385761	9.157586421	9.351231818	9.08432833	9.96807006
FAF1	9.951889397	9.58825536	9.705104956	9.933106953	9.536685408	9.886138543	9.510522625	9.996080645	9.343340265	9.96352571	9.17581298	9.590567058	8.887959103	9.46049032	9.26222423	9.131716257	9.278732618	9.32784804
CRYG3	9.771941829	8.446267755	8.954863483	8.446267755	9.76145953	9.68113137	9.40000142	9.638739351	9.514298706	9.672467531	9.054808567	9.59923441	9.69928074	8.73188576	9.306805133	9.29287461	8.863596834	9.60852276
ZMYM2	8.445565344	9.264392098	8.647582296	9.42796411	9.282740621	9.635848264	9.60662964	9.357455224	9.515688156	9.515688156	9.317702791	9.220372875	9.543934506	9.54939233	9.906695957	9.403426863	9.554326836	9.93712221
TRAPPCC5A	9.621555492	9.768317272	9.88050226	9.508259703	9.547625785	9.654994698	9.946185025	8.608217856	9.257268036	9.958402288	9.984512869	9.737413472	9.5144709	9.338894468	8.612967774	9.192498747	9.192498747	9.192498747
GMPP2	9.724056498	8.470594399	9.060014993	8.975423342	9.386666963	9.97598814	9.902683906	9.386183427	9.425697385	9.200795385	9.916145482	9.49547215	9.41119955	8.731950132	9.542150871	9.208860754	9.167400462	8.97861327
SLC22A2	9.327562862	9.593489389	9.724495219	9.256965312	9.256965312	9.256965312	9.256965312	9.256965312	9.256965312	9.256965312	9.256965312	9.256965312	9.256965312	9.256965312	9.256965312	9.256965312	9.256965312	9.256965312
PRX5	10.2178558	9.87853625	10.0408085	9.90967816	9.475397623	10.0458716	9.78548739	9.90383722	9.928693093	9.90383722	9.909891350	9.97918783	8.408659832	9.167859381	9.129345701	9.193696634	9.049062725	8.69561523
MRP5	9.523523602	9.645829586	10.09372422	9.107131338	9.673968786	8.860011483	8.653600041	9.285152173	9.305141652	8.86523042	9.285027128	9.598466196	9.76238117	9.817412164	8.796237059	9.252011048	9.139698932	9.26443534
GTBP6	9.737784239	9.644924339	9.644924339	9.891361339	9.921524912	9.57328387	9.139215219	9.139215219	9.139215219	9.139215219	9.139215219	9.139215219	9.139215219	9.139215219	9.139215219	9.139215219	9.139215219	9.139215219
MEAF6	9.073633902	9.10732018	9.466645599	9.775188462	9.08223351	9.633122804	8.426488374	9.049115538	9.67833082	9.11138855	9.27899807	9.310982928	9.591475701	9.155612508	8.775156714	9.43399271	8.817271918	9.170818778
PRPF38A	9.72834962	9.42444914	9.235848636	9.076617254	9.42444914	9.235848636	9.599264736	8.82786137	9.216535186	8.847636334	9.42769194	9.650094616	9.404207629	8.55462305	9.187171402	9.352110375	9.397170976	9.417253196
CLTA	9.6052016	10.13819603	9.890424779	9.415493427	9.785521551	9.167400075	9.084564635	9.206892572	9.387007942	9.387007942	9.380754619	9.692462667	9.93373372	9.272157301	9.02477497	9.17627496	9.404808153	9.135312602
SLC44A	9.341152327	9.467690909	9.782040179	9.789587371	9.277864704	9.10248677	9.308649268	9.03624658	9.150536128	9.321328987	9.52151052	8.87234224	9.235150804	9.322105972	9.165480210	9.165480210	9.165480210	9.165480210
SLC3C1	9.48976484	9.40613758	9.846012688	9.75542865	9.846012688	9.846012688	9.846012688	9.846012688	9.846012688	9.846012688	9.846012688	9.846012688	9.846012688	9.846012688	9.846012688	9.846012688	9.846012688	9.846012688
COX14	9.53208408	9.957091302	9.731495278	9.416804579	9.19325906	9.409457527	9.558389875	9.79352559	9.930641459	9.905840213	9.155648667	9.464428642	8.701820587	9.91501285	8.654939002	9.076376347	8.850576132	9.174666328
MRPL18	9.280217219	9.567192809	9.216117425	9.376566035	9.623918027	9.623972192	9.205869599	9.367980874	9.284029605	9.415352739	9.299377729	9.426541765	9.963426321	9.046642921	9.259446308	9.069820114	9.059898875	9.146566911
RVPB	9.515268264	7.94513041	9.317027679	9.401220213	8.834718053	9.106663947	9.265215703	9.387068557	9.410375981	8.857151779	9.680013607	9.176144479	9.657110438	9.222794916	9.333083034	9.48908066	9.061334064	8.918651504
ACP2	9.754526264	9.316558582	9.797583316	8.873661754	9.357224765	10.32591889	9.04144766	9.867350207	9.218305088	9.218305088	9.878618542	8.022526292	9.895665018	9.395047367	9.045288661	9.38284378	9.38284378	9.38284378
NCAHP2	9.226518658	9.478786073	9.551252929	9.275220244	9.880677788	9.795861451	9.336753883	9.613959522	9.889681645	9.156493485	9.235732115	9.033554393	9.603249657	9.854067504	9.518884024	9.222680961	9.308275764	8.931780804
MTFP1	9.476179255	8.99526386	8.70763126	9.265600426	9.869770389	9.934521254	9.596306365	8.887167163	9.60999260									

ZWF6	9.003015472	9.373644212	9.118604432	8.70798387	9.334241514	9.319904988	9.259474843	9.506640018	9.087791057	9.703096611	9.254228985	9.275758709	9.897010254	9.350421721	9.809541116	9.071618427	9.482482791	9.103399044
ADD3	8.791781281	8.230664907	9.741273264	9.667635286	9.175535816	8.777555166	9.108983444	8.994476255	9.167686411	9.488850715	9.359016048	9.108385904	9.413128882	9.50196622	9.906003852	8.95987311	9.497351315	9.431833698
BRD8	9.122107726	9.625197973	8.578254994	9.126566957	9.249618688	8.179179706	8.82779964	9.284577453	8.810663772	9.309112813	9.893475493	9.20180920	9.17611376	9.112136686	9.63183147	9.431826315	9.80261376	9.318823618
ABHD17A	9.274484378	9.300435023	8.895113386	8.598748947	9.39474211	9.378404205	9.270926146	9.024580294	9.445773907	9.031224755	9.488539223	9.347057228	9.261738253	9.634350785	8.429834916	9.085144406	9.014628029	8.999029523
TEEN1	9.345084728	9.345084728	9.345084728	9.345084728	9.345084728	9.345084728	9.345084728	9.345084728	9.345084728	9.345084728	9.345084728	9.345084728	9.345084728	9.345084728	9.345084728	9.345084728	9.345084728	9.345084728
RMND3	9.878967091	9.878967091	9.878967091	9.878967091	9.878967091	9.878967091	9.878967091	9.878967091	9.878967091	9.878967091	9.878967091	9.878967091	9.878967091	9.878967091	9.878967091	9.878967091	9.878967091	9.878967091
ELP2	8.851242606	9.1088661573	8.659367294	9.270323248	9.270323248	9.792506095	8.598208874	9.308391985	9.117208309	9.373035298	9.046163981	9.259974147	8.413839264	9.761020425	9.281883963	9.300467819	9.535862893	9.32488335
GEMIN7	9.47311926	9.187607628	8.860112044	9.187607628	9.277391081	9.277391081	9.557162514	8.780703058	8.808830086	9.986210747	9.831554411	9.578624903	9.774094658	9.253955338	8.521242106	9.766984984	8.295983694	8.886541783
DNAJ3	9.936832996	9.897792127	9.127388137	9.228727412	9.558177263	8.332477615	9.897014449	9.30049216	9.134652167	9.485164638	9.050682011	9.512943865	9.207142682	9.790644057	9.221295284	9.186274049	9.478007575	9.29691478
RNF7	9.259205729	9.844071903	9.844071903	9.844071903	9.844071903	9.844071903	9.844071903	9.844071903	9.844071903	9.844071903	9.844071903	9.844071903	9.844071903	9.844071903	9.844071903	9.844071903	9.844071903	9.844071903
POZL2	9.245224294	9.317652487	9.912557574	9.890545281	9.514895999	9.192083866	9.494833701	9.514895999	9.514895999	9.330203984	9.470170486	8.970015725	9.533883866	8.932597849	9.343094629	9.819778173	9.521039236	9.216372549
DKC1	9.183512059	9.659595419	9.299276483	9.428792823	9.314643491	9.514643491	9.580651706	9.5058751	9.29656762	9.511538031	9.215448898	9.016380167	9.943694981	9.102812628	9.20609588	9.226757071	9.154353385	9.300086669
HDP	9.24662176	9.603246201	8.619149562	9.97660549	9.913452806	9.901320968	9.16859599	9.027337868	9.463129999	9.84674553	9.851719837	9.851719837	9.851719837	9.502790006	9.365889378	9.862438748	9.278760056	
LWP1	9.802958861	9.48695407	8.83858431	9.655123951	9.831530409	9.259423428	8.31097903	9.264492326	9.311293555	9.283950272	9.100939356	9.28235098	9.514267742	9.04865799	9.07081547	9.164942629	9.831985519	9.58719185
CON2	9.929702801	9.28654997	8.888940637	9.666271238	8.205723902	8.008534427	8.744658215	9.297171836	8.907546416	9.464235044	9.169516657	9.449889204	8.697117976	8.802581689	9.763214199	9.175709141	9.571926037	9.733031034
ACC2	9.299686794	9.975792341	8.074932468	9.156805233	8.88872285	9.220639494	9.20740562	9.636337549	9.172975607	9.66215308	9.169516657	9.449889204	8.697117976	8.802581689	9.763214199	9.175709141	9.571926037	9.733031034
RABGEF1	8.378230375	9.554575042	8.948055302	9.017314002	9.433992285	9.49761614	8.804274614	9.47028172	9.862984966	9.621401092	9.488831727	9.29469102	9.043863456	9.049711625	9.347257162	9.566783022	9.139112469	9.652184232
ABT1	9.377017585	8.956035036	9.260833341	9.103596613	9.576677378	9.468887184	9.453801339	8.765703041	8.846795577	9.87048595	9.374485899	9.103695714	9.395807683	9.256925478	9.119428314	9.140820455	9.031665733	9.408066674
CNSK2A2	9.602781292	9.11350364	9.204616446	9.206738319	9.777357533	9.803729614	9.89569141	9.209697598	9.936750983	8.855371017	9.581870871	9.30020363	9.261662622	9.255701588	9.819453236	9.268989088		
MTG1	9.139898684	8.935740814	9.058576764	9.565217434	8.883071488	9.248173942	9.79727888	9.812544531	9.23239908	8.851371759	8.826262304	9.85497375	9.680801022	9.914109652	9.190642142	8.476341019	9.286026545	
FR1	9.263585864	9.015126109	9.353491354	9.590444933	9.449487456	9.410481598	9.189074185	9.148949005	9.189974511	9.118572313	9.578655495	9.252449218	9.545640029	9.847054458	9.435416549	9.3414423	9.102751911	
PAIC3	8.43949459	9.12010955	9.627408014	8.820883125	9.89423737	9.465932504	8.714108959	9.82021014	9.463555353	9.862362527	9.215374069	9.33362401	9.257093977	9.258014939	9.06031771	9.307398698	9.077933784	9.933688314
CYSTM1	9.1283952	9.375670626	8.837191851	9.329252556	9.095982930	9.432573792	9.470420078	9.185470932	9.45158308	9.911910563	8.829318869	9.954820079	9.877390765	9.546231713	9.37680771	9.134425040	8.964826538	9.107997797
INTS1	9.62348114	9.17823301	9.273541844	9.51569897	9.19016596	9.424526342	9.142070686	9.464794286	9.15849441	9.238414572	9.395401159	9.99009119	9.5394264	9.225872147	8.671847301	9.276058216	9.8763872915	
GF3C3	9.27585296	8.96712308	9.562318191	9.237789961	8.318803804	9.62533827	9.11535039	9.968939126	9.15362423	9.027377364	9.545169476	9.444105853	9.465915323	9.215862197	9.98274901	9.30266301	9.243529792	
SLAIN2	9.529516515	8.437747824	8.523663759	9.483818977	9.327112796	9.507663319	9.463027604	9.381789419	9.463027604	9.381789419	9.389437466	8.873146704	9.291464578	9.946196713	9.290932683	9.550273877	9.22265378	9.158990974
PPCD	9.806662088	9.029810393	9.312203181	9.69641448	9.677813034	9.421678752	9.20118503	9.079281959	9.016549409	8.83261351	8.922214964	9.574914315	9.684641373	9.72938209	9.189995735	9.336488555	8.850012503	9.07473889
UR1A	9.421501807	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096
UR1B	9.421501807	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096	9.042367096
ZBT4	9.12252696	9.415938178	8.925200359	9.387698155	8.5326785	8.78246465	9.800721015	9.849657809	9.606221783	9.932963664	9.108701439	9.951237886	9.536887475	8.87717398	9.743212017	9.614007881	9.0266046	9.663848393
ARL4	9.583491248	9.612663224	8.820484974	9.01107701	9.01258293	9.486206674	8.800329571	9.03394969	8.448364668	9.483346021	9.266307873	9.417506184	9.745483061	8.500252868	9.604999611	8.598539897	9.745342048	
POG2	9.017636901	8.675689087	8.608665935	9.884354119	9.260583661	9.938744511	8.171311584	9.551821816	9.057579603	9.837400624	9.440551517	9.248966333	9.12499369	9.052532805	9.83905051	8.877644968	9.732904087	9.86082694
ANKR03B	8.986773079	8.627204914	8.990862614	8.627204914	8.990862614	8.627204914	8.990862614	8.627204914	8.990862614	8.627204914	8.990862614	8.627204914	8.990862614	8.627204914	8.990862614	8.627204914	8.990862614	8.627204914
CAT	9.508218066	8.90578959	9.924598076	9.900588704	9.983792573	7.938138156	9.409554549	9.162274812	9.278380802	8.871914409	8.76405038	8.615891302	9.803484693	9.81161135	9.163270053	9.230424236	8.79614839	9.102075765
PDG	9.357890373	8.810826448	9.126027396	9.38959553	9.899578349	9.379078349	9.548959516	9.257364336	9.24017374	9.29632349	9.101256037	9.159466551	9.399350063	9.83772361	9.206528988	9.83772361	9.206528988	9.83772361
TR1	9.162358418	9.137590156	9.137590156	9.137590156	9.137590156	9.137590156	9.137590156	9.137590156	9.137590156	9.137590156	9.137590156	9.137590156	9.137590156	9.137590156	9.137590156	9.137590156	9.137590156	9.137590156
MEM87B	9.304394507	8.74179802	9.500209959	9.10789251	9.156295854	9.365474103	9.408551666	9.039260928	9.264015233	9.19563073	9.276625513	9.837847035	9.213929134	9.842605346	9.324670314	9.070844875	9.23944613	9.035164445
ING3	9.594300007	9.399853272	9.311490428	9.3116101	9.187018482	9.187018482	9.408527186	9.315691	9.265670129	9.820746703	9.949736219	9.107174431	9.548086419	9.761154325	9.230589963	9.238117466	9.18305261	9.10212896
EMC1	8.276422056	9.936900571	9.479701767	9.579689837	9.236047766	9.897021302	9.945506807	9.492212954	9.893537209	9.375722321	9.267654112	9.619438217	9.534648254	8.666608184	9.732893094	9.190151336	9.119172398	9.143236836
DUT	9.389551993	9.516267766	9.49640943	9.516267766	9.49640943	9.516267766	9.49640943	9.516267766	9.49640943	9.516267766	9.49640943	9.516267766	9.49640943	9.516267766	9.49640943	9.516267766	9.49640943	9.516267766
RRGAP1	9.017395513	9.04543244	8.723315463	9.398925083	8.678351467	9.848375355	9.66780363	9.6374097	9.301866726	9.388902051	9.729944248	9.938526517	7.962018724	9.380232545	9.932120857	9.22341861	9.914794927	9.141235277
FN1	8.83429906	9.05617037	8.673200466	9.193388371	9.059911074	9.184753752	9.220212151	9.063605761	9.34353706	9.41052009	9.116154938	9.244058254	9.34426976	8.57139714				

HHRNPL	8.86961753	8.765930769	9.051201535	9.269954102	8.473369106	8.971347133	8.772279308	9.703515627	9.123581499	9.494595886	9.251047017	8.508091927	9.322425627	9.425410931	9.714301552	9.470712881	9.644473242	8.927883744
MCTS1	8.901918757	9.173612926	8.88918608	9.672605531	9.372104052	9.199914904	9.948269898	8.899714886	9.174069541	9.214327078	9.344354	9.952284112	9.66503529	9.363586688	8.8354853	9.34264435	9.23782387	9.043628002
HLA-QD41	8.351833958	11.06760452	8.102485861	11.845137859	8.130717864	7.678216223	7.5966357	9.259680816	9.73441386	10.29674968	9.71820218	9.14552587	8.096832755	8.845272936	9.11395376	10.24504920	10.88468825	
LAMAS	8.756956654	8.89610957	9.143229917	8.741385377	9.204559802	8.582846721	9.544473304	9.227771838	9.168759004	9.229291778	9.14175726	9.225062645	9.36117314	8.618918429	9.233900387	9.245838382	9.73957765	8.923556642
DIO	9.434730878	9.099658082	9.210228343	9.099658082	9.210228343	9.099658082	9.210228343	9.099658082	9.210228343	9.099658082	9.155639791	9.498761651	9.2341127	8.944436967	9.315730972	9.209466022	9.08170912	9.358406606
PMERPA1	9.647574193	8.206542664	9.23931998	8.764542664	9.240658608	9.954290047	9.514580674	9.318580074	9.318580074	9.073230636	9.182128359	8.48321442	9.310516057	9.075743716	9.051495182	9.074615863	8.263376635	8.779146646
ZNF64	8.9500565	8.85528778	8.839841479	9.504374083	9.471598675	9.442199698	8.434109693	9.203110027	9.860912047	9.237557004	9.209178818	9.11118028	8.303243104	9.024884743	9.078328765	9.536488256	9.1673957	8.747290767
PKRPR1	9.217367449	9.397675558	9.033584248	9.573239085	8.865972965	9.324157953	9.172500094	9.241502243	9.160872809	9.196043299	9.014681591	9.200840672	8.277440027	9.171132668	8.975386969	9.330407291	9.579107526	8.891931503
ERH	9.421445389	9.286554769	8.818232571	8.975177627	9.123081253	9.420458164	9.376625575	8.779698029	9.389933333	9.187515608	9.041026619	9.193078973	9.003639761	9.226669295	9.786440095	9.209307811	9.178783298	8.959279925
SETD2	8.775284848	8.27379571	8.333741453	8.805648033	8.369078361	9.960287583	9.966031997	9.298583518	9.699727907	9.133422542	9.012559311	9.012768893	9.97311777	9.196530786	9.32200191	9.94429009	9.16233887	9.26580863
FZD3	8.619164653	9.047317231	6.503684487	9.047317231	6.503684487	9.74877925	10.02827372	9.052746078	9.301277952	8.897080275	9.499967667	8.259187265	8.861500718	9.448440300	9.294159505	9.325005318	9.182365373	
NK1D2	8.97866665	9.295412607	8.51088953	9.216649101	8.154864814	8.061909936	8.01628311	9.642716574	9.37046459	9.261559038	9.147305999	8.021368122	9.401559323	9.388280101	9.616804004	9.800250821	9.09969103	8.949918671
ECHD3	8.46815363	9.523494141	9.248833908	9.245435615	9.36643558	9.488038185	8.880346008	9.23322497	9.035565085	9.38317398	9.249907999	9.676033797	8.815527242	9.173636	9.15376048	8.668293867		
VFK3	9.44859109	9.113327232	9.414904197	9.33176923	9.20655644	9.418070671	9.981745605	9.980497154	9.396543635	9.049345448	9.99984818	9.433061467	9.21700218	9.516235831	9.097766116	8.82854865	9.145073002	9.408745865
FAM9A9	9.148400099	9.479346516	9.297487083	9.297487083	9.297487083	9.297487083	9.297487083	9.297487083	9.297487083	9.297487083	9.434368928	9.550869346	9.192397916	8.474469707	9.264649106	9.41007276	9.16820572	9.408738366
DXD41	9.407786919	10.07483386	8.953344284	9.656276725	9.93970387	9.615004009	9.114847847	9.393437319	9.818243618	9.228845026	9.135194926	9.502068699	9.102762895	9.726733089	9.382667478	9.092758272	9.098438528	8.995636846
MS18BP1	9.130458816	9.435192412	9.132844863	9.34278201	9.198442356	9.205767612	9.597008383	9.20170531	9.32109435	9.568200719	9.178823033	6.884882169	9.157800702	9.175378695	9.25840777	9.372368888	8.757547653	
RABP1	9.510262153	8.150242153	9.193321906	8.069776009	9.120957933	8.839133472	9.153145569	9.226341941	9.16405377	9.486358345	8.373725498	10.11350203	9.62402692	9.159969649	9.508128799	9.088704009	9.302123416	
CMC2	9.025636157	9.141082153	9.141082153	9.141082153	9.141082153	8.675272265	9.422016459	9.017199821	9.422016459	9.405865258	9.174383903	9.230386996	9.618808154	9.449549699	8.686534506	8.878465571	9.183160639	8.974474913
KF21A	9.518030794	9.216039546	8.280730123	9.177369866	9.060903283	9.48317614	8.011248333	9.105890071	9.368314614	9.195924641	9.187346021	9.251765231	9.102901659	9.170081002	9.328241109	8.87369015	8.96065505	8.656501791
NPE4	8.937727967	8.756956648	9.103938002	9.657638242	9.657638242	9.657638242	9.657638242	9.657638242	9.657638242	9.657638242	9.15475735	9.58853467	9.221518257	9.565506567	9.024029528	8.75324254	9.13550227	8.34526565
MIEN1	8.970729067	9.66410391	9.389183322	8.90207489	9.138717341	9.026038954	9.861745501	9.206038954	8.995073989	9.18257811	9.39031474	9.276502809	8.688240183	8.829089636	8.819338505	9.08795579	9.90757597	
CST3	8.722261309	9.920359906	9.659703157	9.258350351	9.26755156	7.85486146	9.295434345	8.892819147	9.400881857	9.25323584	9.173478046	8.653053502	9.577075786	9.108151647	9.034889283	8.637493964	9.10257427	9.183139935
SS5A	9.034671619	9.594953758	9.277176626	9.744801623	9.694543163	9.316720069	9.963161697	8.961316797	8.654087215	9.74538577	9.570196195	9.10691266	9.521390367	9.681206232	8.692872322	8.776537862	8.907900029	9.539628952
NRPB3	9.488777729	9.684101664	9.158061092	9.961073253	9.859400369	8.406438326	8.850239	9.961073253	8.917469066	10.5326702	8.869390527	8.641154538	9.197655115	9.419114482	10.0259397	9.615660811	10.84275646	9.942779307
MLP33	9.189971991	10.019380101	9.483762458	9.22737362	8.716571159	8.880953129	9.28234157	7.838572983	9.28234157	7.838572983	9.173943471	9.934511247	9.368102686	9.893955849	8.78560595	8.974923912	7.848459146	9.587729707
UBAP1	8.027993538	8.224449027	9.39391251	8.491652258	9.229877011	9.059601774	9.716888133	8.791512424	9.31656918	8.910281267	9.25256558	8.92996024	9.250033664	9.311232961	8.758246273	9.319412829	9.738514449	9.339289952
TRP23	9.29166395	9.798481365	9.112857435	9.126074851	9.454030397	9.126074851	9.454030397	9.126074851	9.454030397	9.126074851	9.126074851	9.126074851	9.126074851	9.126074851	9.126074851	9.126074851	9.126074851	9.126074851
HERPUD2	8.93411578	8.925149007	9.369401857	9.605479525	9.369401857	9.369401857	9.369401857	9.369401857	9.369401857	9.369401857	9.369401857	9.369401857	9.369401857	9.369401857	9.369401857	9.369401857	9.369401857	9.369401857
MEF2A	9.385411745	9.899326041	8.691841331	9.056920905	8.425027967	9.053206835	8.93553198	9.540690762	9.131649297	9.448276016	9.36714582	9.218433378	9.690820623	8.797479278	8.994075835	8.8549507	9.460956070	9.098614589
TMM2M42	8.986914266	9.462923603	9.047584035	9.610231882	9.801679096	9.097855138	9.328378791	8.435309078	9.097855138	9.468683632	9.102845162	10.289776218	9.660037558	10.59550541	8.85091849	9.183029098	8.831061218	9.290317068
LAS1L	9.571623764	10.15813917	9.307921507	9.760076525	9.0094365	9.303567193	8.327271717	9.90889792	9.352193703	6.899318514	9.021773425	9.506518167	7.830824727	9.926817667	7.844090866	9.214669042	8.94336695	9.130717495
DVYCN12L	9.067137889	9.907300609	8.662116212	9.554791671	7.5792812	9.011387152	9.239362765	9.681007438	9.033375978	9.33692506	9.228410168	9.130336275	9.797855517	9.855327507	9.899117021	9.2581757	9.402848356	
ANGEL1	9.094414146	8.467395364	9.159136315	8.506959683	9.184761076	8.652179489	8.736087141	9.149872991	9.217353784	9.707494774	9.662041156	9.680078729	9.907438047	9.381158684	9.646270091	9.415866683	9.316473369	8.799218254
PP2B2	9.131394752	9.200903159	9.210771206	9.06152173	9.06152173	9.06152173	9.06152173	9.06152173	9.06152173	9.06152173	9.128578085	9.128578085	9.128578085	9.128578085	9.128578085	9.128578085	9.128578085	9.128578085
SLC21A9	9.511688906	9.737788236	9.037760305	9.216486062	9.143193202	9.238563661	9.143193202	9.238563661	9.143193202	9.238563661	9.466287829	8.82453722	9.846805169	8.7727391	8.48015003	9.710912033	9.189895913	9.491181868
PITHD1	8.817927756	9.812929476	9.058007881	9.710808545	9.100771971	8.997335151	9.180495013	9.820877647	9.228504123	9.101762264	9.938724273	9.343811074	9.129386951	9.291529565	9.194679091	9.063463247	9.200646025	9.158886761
SMU1	9.028898657	9.0685557	9.789073055	9.085890668	9.671821172	9.222760249	8.931538544	9.157088064	9.478816768	9.528247696	8.846602548	9.05486832	9.10095621	9.05486832	9.10095621	9.05486832	9.10095621	9.05486832
DUSP11	8.58301518	9.399887787	10.14930145	9.395644674	9.33504086	9.78592592	9.047192172	9.951913459	9.173230981	9.002164401	9.160315718	9.759561766	9.407798597	9.928516451	9.906995491	9.105454809	9.026946431	9.253467473
IPO9	8.837013222	8.525177262	9.069178622	9.694718592	9.527518476	9.025222222	9.504174794	9.563912366	8.504174794	9.031873064	9.248804663	9.084576274	6.454206038	9.259107159	9.70362485	9.453731279	9.956638688	9.73258753
UZAF1	9.47898488	9.04554829	9.370448816	9.12525162	9.506952974	9.568151364	9.153234007	8.807872369	9.219149254	9.546643897	8.80297378	9.099351617	9.349618437	9.180057017	8.611379499	9.342072557	8.274298326	9.312476682
ESCO1	9.48043721	9.075793927	9.258898499	9.244739489	8.746052579	9.718780576	9.032656204	8.605800115	9.235560441	8.824820969	8.734818495	9.12926278	9.814579455	9.784439				

ACD12314.1	9.452699348	9.566993026	9.671176618	9.228168304	9.239980385	9.133747803	9.109695953	8.540382905	9.221945152	8.144575007	9.23314172	9.157872377	9.265784653	8.915883742	8.209130905	8.813929297	9.08863335	8.685145601
STEGALNACI	9.184935184	9.148150208	9.104752022	9.082938274	9.074773205	9.536785456	9.098971339	9.068287749	8.918887788	9.113302362	9.087579695	9.490838296	9.47730163	9.159217050	9.319424385	9.121297575	9.140124664	9.059131334
CEBPA2	9.461451589	9.140993178	9.100220128	9.045979998	9.046607000	9.668835029	9.444499318	8.684003656	8.684003656	8.684003656	8.673684643	9.171454544	9.622468423	9.492084626	9.723782896	9.289410116	9.611291420	9.121218586
IGZF7	8.750578939	7.553520582	9.09789474	9.894427709	8.631966368	7.988273058	8.642895644	10.1452014	8.876201153	9.508324077	9.315176772	9.616732186	9.197849668	9.715104493	9.933849189	9.028978156	9.285801474	8.965349185
KCTD9	9.170871131	8.460628234	8.860628234	9.280422622	9.280422622	8.476541734	8.011330969	9.77872332	9.24092497	9.24092497	8.026162316	9.056437976	8.674128979	9.475701665	9.63476556	9.270571924	9.390680417	9.634587118
ACD12314.1.1	9.562695895	9.562695895	9.671042444	9.23985645	9.23985645	9.126385277	9.109575294	9.40280167	9.124711133	9.144466442	9.232018033	9.157750425	9.26559097	9.125213091	8.209039906	8.81388061	9.285845488	8.685033803
ACD12314.1.2	9.452569986	9.566861107	9.671042613	9.28044979	9.23985644	9.109575285	9.540280158	9.214711213	9.144466433	9.233018024	9.157750425	9.265590988	9.8125313	8.209039906	8.81388061	9.088458389	8.685033803	8.685033803
ACD12314.1.5	9.452569974	9.566861078	9.671042584	9.28044771	9.239856413	9.126385277	9.109575257	9.540280132	9.214711212	9.144466409	9.233017976	9.157750429	9.265590987	9.812531273	8.209039882	8.888458389	8.685033803	8.685033803
RFN185	9.527639102	9.748520039	8.10922231	9.157136839	9.486051524	8.888381177	8.992478128	8.757272535	9.153348293	9.174000455	9.12648458	9.674097604	9.772374788	9.903248158	8.899201411	9.205314003	9.81300558	9.114674446
DRG1	9.003796654	9.004235392	9.004235392	9.004235392	9.004235392	9.37873438	9.158957991	8.62984595	9.234542378	9.315949091	8.999373231	9.440559647	9.319699178	9.488846779	8.60632523	9.138212871	9.140718025	9.811001373
MAPKAP2	8.762904515	9.827044174	9.87726947	9.8196093713	9.8196093713	9.419230733	9.611606197	9.04691382	9.829059595	9.141934583	9.13933527	9.209065859	9.615426389	9.511030715	9.371044337	9.000495412	9.480114015	8.686058308
RFN13A	9.002667152	10.140214007	9.633216277	9.765919533	9.765919533	9.514573434	9.4482739127	8.978751413	9.123084479	9.075697575	9.30295907	9.619147861	9.605570211	9.899587895	8.809740497	9.094411656	8.991480176	8.7336221
PHI11	9.19113525	9.487317915	9.233106441	9.410926322	9.49300472	9.965264095	9.942957916	9.0890597	9.0890597	9.0890597	8.94915396	9.299906503	9.306942665	8.69310283	9.131321811	9.175699554	9.861530097	9.650150084
SPK5K81	9.948290382	8.085111928	9.066523444	9.09504503	9.037629489	9.407739392	8.529285891	9.382117603	9.214024453	9.29001334	9.01610157	9.305629381	9.948513475	8.464525542	9.376835176	9.485738892	9.139401463	9.356431303
RTK25	8.331414841	9.004626688	9.331414841	9.331414841	9.331414841	9.551732349	9.056710562	9.386882523	9.103187617	9.147959055	9.150433339	9.121661385	9.13088444	9.885496868	9.954111201	8.8535131	9.208138421	8.797254381
ND02	9.104864423	9.248774192	8.679516545	9.434296017	9.799750809	1.013768244	8.873159384	9.886016738	9.436418147	9.566578059	9.674126722	9.084161071	9.122038017	8.820958873	8.622770071	9.6398902	9.155720163	8.79346392
RFN216	9.138454418	8.568325073	9.137881972	9.36448995	8.806222691	8.804205687	9.395226666	9.187142038	9.786125292	9.12633134	9.343225707	9.851406076	9.903560141	9.238993836	9.82613396	9.305266653	9.148571523	9.148571523
PREPL	9.478698159	9.843816578	9.298330542	9.91988638	8.85118345	9.750671733	9.141175655	9.138069665	9.17425651	9.700877375	9.08900761	8.55058839	9.09491007	9.228634787	9.277057974	9.502391698	9.60447143	9.138039944
RYU11	9.048398598	9.82129458	9.472096805	9.465203438	9.357873618	9.454024898	8.770630368	9.447710192	9.210373024	8.919034392	9.683240062	8.373298742	8.56638466	9.905349045	9.13625192	9.27462258	9.894007737	9.894007737
MAN02B	9.261416198	9.092734196	9.086238989	9.105787897	9.180236254	9.504028677	9.057047256	9.086616588	9.512620641	9.52507574	9.187190903	9.171250252	6.84105791	9.50438647	9.104232037	9.69066768	9.025876942	9.085192807
NAT5	9.180397594	9.238875885	9.932312781	9.100570827	9.15784978	9.849089755	9.376029256	9.290313524	9.715531887	9.816430246	8.87612054	8.59973635	9.39444326	9.26585846	9.225080139	9.148363511	9.132745282	9.359817779
CH507-9B2.1	9.985585749	9.23254393	9.906666663	9.23005124	9.09130814	9.566002719	8.801300269	9.04544728	9.04544728	9.04544728	9.87612054	8.59973635	9.39444326	9.26585846	9.225080139	9.148363511	9.132745282	9.359817779
PHK8	9.86347817	9.75783342	9.153524501	9.43447117	7.53495729	8.939087708	8.210387391	9.167791922	9.098911217	9.340712647	9.178719363	9.925461312	9.31909955	9.855928138	9.383222937	9.12058924	9.778693845	9.28977817
IVD	9.452065992	8.26999931	8.874162433	9.51369746	8.64168522	8.165849005	8.463897453	9.385088445	8.737793362	9.311443038	8.818662682	9.158751808	9.74647157	9.858978188	9.100804215	9.115129853	9.291452127	9.291452127
HUWE1	8.739737259	9.172312331	9.178237758	8.739737259	8.739737259	8.739737259	8.739737259	8.739737259	8.739737259	8.739737259	8.739737259	8.739737259	8.739737259	8.739737259	8.739737259	8.739737259	8.739737259	8.739737259
CNOT9	9.17086597	8.108149728	9.101084051	9.101084051	9.101084051	9.101084051	9.101084051	9.101084051	9.101084051	9.101084051	9.101084051	9.101084051	9.101084051	9.101084051	9.101084051	9.101084051	9.101084051	9.101084051
ACR	9.565958717	9.108609236	8.425913154	9.289045264	9.084373267	9.209886618	8.793130753	9.06969351	9.270381612	9.297060465	9.163115327	9.978852848	9.209769699	9.7367312928	8.724324217	9.70246722	9.367478198	9.068451569
UBE2	9.491852863	9.421740271	9.491852863	9.491852863	9.491852863	9.491852863	9.491852863	9.491852863	9.491852863	9.491852863	9.491852863	9.491852863	9.491852863	9.491852863	9.491852863	9.491852863	9.491852863	9.491852863
SHF1	8.693850887	9.524942946	8.455637302	9.428492556	9.115749629	9.178687702	8.825717475	9.60915445	9.21873607	9.008625556	9.211106827	9.494297399	9.753834718	9.895436666	9.780234395	9.204110177	9.154744383	9.77171357
ADAM19	8.23030991	7.467087888	8.108467261	9.207126025	8.87599114	9.022543935	9.063272392	9.886067904	8.728645372	9.771857265	9.269480988	9.123191328	9.988822776	9.272191223	9.840207621	9.224920262	9.92739569	9.21797361
CEBPB	9.441613626	9.487239347	9.786725561	9.39398054	9.786725561	9.089893567	9.305770975	9.003314354	9.003314354	9.003314354	9.440127594	9.423903363	8.812261357	9.195704523	9.06182364	9.061985775	8.845244839	8.969544056
DUSP4	6.524818305	9.162815963	6.427642728	9.612874503	9.61863544	9.550611903	9.014614579	9.238281519	9.062655552	9.214059295	10.86731335	9.792431204	9.054779781	9.6355022	10.31611564	9.454062935	9.956344103	10.19264473
COMT	9.51328182	9.22414839	8.849260429	9.520573314	9.849260429	9.859376994	9.156501106	9.707135517	10.683264741	9.226525219	9.307695447	9.102594765	10.04630929	9.368822337	9.78286971	8.82033	9.781372168	9.116148206
ABP1	9.959604703	9.547030498	9.197665973	9.887400446	9.250937985	9.096751119	8.759696007	9.049598282	9.144196681	9.177655441	9.763185942	9.123364609	9.712382795	9.419398663	8.618517918	8.602676499	8.923308194	9.734174189
MTN2	9.121460023	9.121460023	9.121460023	9.121460023	9.121460023	9.121460023	9.121460023	9.121460023	9.121460023	9.121460023	9.121460023	9.121460023	9.121460023	9.121460023	9.121460023	9.121460023	9.121460023	9.121460023
TRAPPC4	9.495142478	9.054434784	9.054434784	9.054434784	9.054434784	9.054434784	9.054434784	9.054434784	9.054434784	9.054434784	9.054434784	9.054434784	9.054434784	9.054434784	9.054434784	9.054434784	9.054434784	9.054434784
TMEM120A	9.104008687	9.61029807	9.127288053	9.944878227	9.589244476	9.406573551	9.137203919	8.715356009	9.01781979	9.181908674	9.124095829	9.135551072	9.433612186	9.224992528	8.783408931	9.020443428	8.809300669	9.388651676
YES1	9.06003414	8.120064653	8.758082369	8.758082369	8.758082369	8.758082369	8.758082369	8.758082369	8.758082369	8.758082369	8.758082369	8.758082369	8.758082369	8.758082369	8.758082369	8.758082369	8.758082369	8.758082369
DENN2C	9.390394209	9.321463351	9.874777826	8.537376064	9.24305416	8.54140641	8.789466875	9.348493731	9.040452752	9.299361427	9.025276115	9.486563027	9.498503536	9.870639549	9.686019159	9.18020403	9.081720291	9.138155673
PKP2	9.888955226	8.374873029	8.920846045	9.888955226	9.888955226	9.888955226	9.888955226	9.888955226	9.888955226	9.888955226	9.888955226	9.888955226	9.888955226	9.888955226	9.888955226	9.888955226	9.888955226	9.888955226
C22o7F3	9.431710479	9.263314634	9.133277819	9.294874129	9.506640646	9.120735572	8.671784037	9.013898749	9.263588768	8.848787562	9.059709988	9.497323692	9.56099712	9.53673065	9.941538318	9.128111464	8.783122155	9.808053898
VPS52	9.05185237	9.205196994	9.343907032	9.1934070														

PIOD3	8.910347511	9.55763688	9.75026878	9.038638903	8.96688381	9.08229556	9.01249077	9.15423952	9.108637223	9.07600158	9.10522921	8.91706788	9.164770352	9.32378207	9.238099965	8.964415886	9.118077247	9.362171644
AFIM1	9.100812695	9.234364172	8.72221534	9.093616557	9.297772758	9.250709114	9.402992006	9.751086673	9.153169864	8.70720088	8.490587959	9.522161965	8.496599831	9.370366555	8.784651957	9.072376118	8.701737954	9.199939895
NUDF8	9.008438992	9.506520522	9.496871298	9.826001770	9.469876359	9.492951146	9.890222507	9.882242407	9.158827526	8.83952626	9.51918597	9.62722327	9.388594212	9.183036228	8.823926823	9.038467065	8.99413525	9.406494941
DNAF2	9.193164687	10.11973135	9.788622872	9.193554471	9.518135666	8.866114214	9.157672211	8.937860752	9.075599757	8.88584924	8.832157205	9.476157288	9.075623205	9.07529923	9.449754432	9.162550639	9.104154761	9.19315615
MTHD1	8.613308644	8.63327776	8.511980197	8.613308644	8.63327776	8.511980197	8.613308644	8.63327776	8.511980197	8.613308644	8.63327776	8.511980197	8.613308644	8.63327776	8.511980197	8.613308644	8.63327776	8.511980197
NOT6	9.165321667	10.04768301	9.071772299	9.058200555	8.784313669	8.77474415	9.11782222	9.655864092	9.019817809	9.057946909	8.97521139	8.82472584	9.11176234	9.387532847	8.889802465	8.84396767	9.396921745	9.11977959
COL2A1	9.128519377	9.41293295	9.904609657	9.287294288	8.23937918	8.28236072	8.71110357	9.07490816	9.237550661	9.04126889	8.68129651	8.99159342	8.42431367	9.989729478	9.430020871	9.451381192	9.45828112	8.998398789
ARIID2	6.90495795	8.557332159	10.01727388	8.573265159	10.01727388	8.573265159	10.01727388	8.573265159	10.01727388	8.573265159	10.01727388	8.573265159	10.01727388	8.573265159	10.01727388	8.573265159	10.01727388	8.573265159
SLC11A2	9.100273665	8.33141729	9.105751156	8.14614174	9.402369687	9.217690983	8.574852299	9.532536428	9.340480366	9.250747879	9.065258834	9.040422463	9.344032318	8.804147374	9.633264648	9.362805945	9.189463333	9.454804883
ZBT21	8.609596864	8.100114972	8.814601198	9.243285689	8.946293668	8.264936368	8.598106551	9.394325689	9.035337532	9.328823334	9.331877779	8.524167035	9.305109529	8.69626568	9.37350497	9.372891284	9.144011134	9.146040822
UNC5A5	9.19331407	9.213371175	9.222260863	9.059096168	9.2522496	8.77182478	9.029591422	9.2522496	8.697289517	9.002642058	9.22665507	9.31251846	9.178272375	9.723362599	8.888429858	9.028933116	9.143095518	8.807893765
CR1	9.187108703	8.858934311	9.391961932	9.166766658	9.034799412	9.137499412	9.21896625	8.366684843	9.404730609	8.810988348	9.248543404	9.729640965	9.604979086	9.234019022	8.894656415	8.932053479	9.870566771	12.48327643
MPS2	9.100857256	9.930273691	8.629763261	11.61728222	9.655864092	9.019817809	9.057946909	8.97521139	8.82472584	9.11176234	9.387532847	8.889802465	8.84396767	9.396921745	9.11977959	9.11977959	9.11977959	9.11977959
CK7	9.584203077	8.64241485	9.465127077	8.912231527	8.576228688	8.940465888	8.705440068	9.196917424	9.29429475	9.3000887	9.471331939	8.543120166	10.3490761	9.81293299	9.201993826	8.978084382	9.02421154	8.646288402
NASP	9.123489187	9.059643295	9.187584272	9.187584272	9.187584272	9.187584272	9.187584272	9.187584272	9.187584272	9.187584272	9.187584272	9.187584272	9.187584272	9.187584272	9.187584272	9.187584272	9.187584272	9.187584272
BAG6	9.58829411	9.501190964	9.714215414	9.06358303	9.015900264	9.37582344	9.538087719	9.282608021	8.799012558	9.460631372	9.176301672	9.547341761	8.686318521	9.34170627	9.92338499	8.774642139	8.958712113	8.832913135
XRR1A	8.346705731	8.830264042	7.579891611	9.161624538	8.500194819	8.732526319	9.568257407	9.58692016	9.082179137	9.505242355	9.163996951	9.109671338	9.023214042	8.529256915	9.417434523	9.19737887	9.625343718	9.253533152
SLC39A1	9.669392922	8.697077918	9.414082477	9.211750451	9.186180011	8.970979779	9.338889896	9.031609192	9.094551442	8.891242143	9.15559641	9.096604481	9.012100455	9.329120624	8.829370682	8.699082032	8.717911824	9.381952238
WDFY1	8.93306758	9.36950358	7.901028454	9.001239457	9.500115967	6.089799799	9.177105874	8.930981513	9.177105874	9.241482141	9.148650313	9.928193521	9.038615177	8.281374158	9.356914166	9.342694913	9.224081199	8.775441753
PNKG	8.19483734	8.951177327	9.30804821	9.846017623	9.137726054	7.568655179	8.938635497	9.362138614	9.416596113	8.767807014	9.069911341	9.437572667	9.808179649	9.471761249	8.789486536	9.217429882	9.117871621	8.905746658
ATG4	8.28735839	9.335819117	8.843535897	9.461836425	9.770009239	9.216479269	9.049852567	9.297007231	9.36312325	9.059123519	8.897412774	9.1321188	9.57055713	9.476555545	8.734514815	9.224388854	9.118200289	8.953209913
TMEM170A	8.008437607	9.107305011	8.770305011	9.594381218	9.39017307	8.230080598	8.981126185	9.003414333	9.097450686	9.689935963	9.97855942	9.02188333	9.641727235	8.890711484	9.094400225	9.278045233	8.579442425	9.846462829
PCD2	9.171091374	9.502167325	9.658224901	9.594215764	9.526457343	9.606775534	9.097213214	8.688121897	8.995947982	9.094201173	9.196218708	9.04051131	9.090729914	8.573731507	8.558476398	9.051379654	8.881851567	8.811922116
VPS26B	9.606215703	9.900739756	9.651710051	9.282005439	9.281173053	9.652015695	9.088092416	9.081801126	9.088992416	9.057102381	9.092343949	9.438574813	8.56831578	9.412229887	9.270303571	9.863376988	9.05061241	8.732672161
MAP3K5	9.179032759	8.668834602	8.653548462	9.960321301	8.882986885	8.709302056	8.669696071	8.772371104	9.377341142	9.802215993	9.479564572	9.178976328	8.608177212	9.611683018	9.128270913	9.171251487	8.993228656	9.054304334
NCOA2	7.892349416	8.988915708	8.71092281	7.800212087	9.468344	9.087905665	9.084431332	9.204652239	9.377885994	9.920249786	9.843474267	8.239204525	9.43831071	8.21466189	9.4911616	8.989894996	9.327301734	8.98898197
NAGA	8.732165542	9.66382327	7.925973912	9.185480612	9.379828329	9.656512235	9.037758207	9.108691477	9.04264882	8.893079135	9.28429445	9.37294386	8.199769889	8.493165548	9.23278799	9.074257732	8.961143469	9.103136744
GMP17	8.26583694	8.26583694	8.26583694	8.26583694	8.26583694	8.26583694	8.26583694	8.26583694	8.26583694	8.26583694	8.26583694	8.26583694	8.26583694	8.26583694	8.26583694	8.26583694	8.26583694	8.26583694
KHL21	8.755472898	9.074607699	8.706640344	9.799910848	9.785615445	8.84658709	8.251312821	9.407475991	9.332476378	9.087803819	9.130248245	9.216019435	9.22643447	9.397768374	9.103929879	8.436874337	8.946562459	9.105114256
ZMYM5	9.209603055	9.324886489	8.28303328	9.371385776	9.213249685	8.846246802	9.024522425	9.24109834	9.017504877	8.391326386	9.088398052	9.284418171	9.636492321	9.499664132	9.093115586	9.010262496	8.588095101	9.051806669
ATP9B	8.435826809	7.820707976	9.122226747	9.302166902	8.748301672	9.947350165	9.2043374	8.85620596	9.27761034	8.85620596	8.97760152	9.284939398	8.038912367	9.57957613	9.570927702	9.54441395	9.369265617	9.458192447
PRPSA1	9.26576938	9.451122868	9.636571824	8.576417189	9.174812298	9.410667774	9.368937676	9.351806259	8.786136929	9.012481884	8.889584982	9.685773471	9.151225033	8.432414991	9.748904196	8.452962499	9.062529926	9.115045463
MAU2	8.194832316	9.244357077	8.149232387	9.636580301	9.784280767	8.496508484	8.784280767	9.349594915	9.155952192	9.470471749	8.816227789	9.965112377	9.780990851	9.086480643	9.630579237	9.089190969	9.56319307	9.91907669
PK3	8.602439103	9.153178458	9.07635792	9.132165946	8.295827773	9.099117276	7.794864706	8.920751811	9.159178919	9.214484975	9.303413975	8.865498468	7.402515383	8.970725086	9.098446234	8.979033997	9.624334042	9.363320261
GNAT	9.55054374	9.258979497	8.44163689	9.854049109	8.862150568	9.801717319	9.945973423	9.251989712	9.176500472	8.973670219	8.09374676	9.483297575	8.082516089	9.480584033	9.237660476	9.184044663	9.59848726	9.103136744
LIPA	9.419370716	9.11671135	9.074607911	9.047485903	9.044659803	9.044659803	9.044659803	9.044659803	9.044659803	9.044659803	9.044659803	9.044659803	9.044659803	9.044659803	9.044659803	9.044659803	9.044659803	9.044659803
SF3A1	9.264715426	8.448440275	9.016946602	9.823471526	8.78933782	9.262184997	9.280048559	8.404759878	9.028838777	9.029726608	9.552812578	7.820076511	9.09552933	8.72056641	9.05770875	9.307972268	9.147476152	8.9061321
GNM1	9.172517776	9.029689533	8.624813768	9.187310303	9.498583967	8.739233536	9.088396336	9.095183377	9.101417610	9.521474854	9.140773697	9.06608987	9.50927276	8.491292894	9.075945	8.477384841	8.22906593	9.103136744
LETM1D	9.382654814	8.905572637	9.146817659	9.048873061	9.12116136	9.898338315	8.563676411	8.962663388	9.446626575	8.98414986	9.41883815	8.771932921	8.717048201	9.23718534	8.895977153	9.290380967	9.258961023	9.287820714
TTN	9.138263916	8.967742617	8.967742617	8.628005979	9.078096623	9.548813529	9.100094269	9.610044348	8.611783113	9.894366705	9.948534743	9.540848812	9.09187734	9.479944156	9.388029935	9.951968853	9.322290253	9.103136744
STK17A	8.27247507	9.609479638	9.487057926	9.12320844	9.487057926	9.12320844	9.487057926	9.12320844	9.487057926	9.12320844	9.487057926	9.12320844	9.487057926	9.12320844	9.487057926	9.12320844	9.487057926	9.12320844
DNAI3	9.207757199	9.60992564	9.494904156	9.634146588	9.50017725	9.110267004	9.594557043	9.035894992	9.057910358	8.562420814	8.							

HERC2	9.374520914	8.644978592	8.838132328	8.481684817	9.285278621	9.700861836	9.218023984	8.963714811	8.423185373	8.95592418	8.73316968	9.182237519	9.641490487	9.232411664	8.898722557	9.066557034	9.021072154	9.026115488
CERS5	9.158430534	8.635107949	8.936320061	9.445264552	9.025154488	8.647287429	9.22671155	9.032686683	9.79542603	8.653914505	9.189136752	9.209674616	9.312178283	9.00880166	9.063993452	8.942039461		
TEC83	9.23474769	9.547024983	9.435089942	9.290708179	9.045271498	8.063295138	9.516380974	9.038660188	9.002631267	9.17533571	9.168041807	8.474489119	9.17960278	8.732045111	9.26756787	8.848075277	9.849310047	9.720873665
THY11	9.29229047	8.66363032	9.044025262	8.929503367	9.55531331	9.57476537	9.27562882	8.462705548	9.06273743	8.654291055	8.626121947	9.096641772	9.692328085	9.568384169	8.703332369	8.653604066	8.679029491	8.700679437
HSC3A	9.12352446	8.700857932	9.048541132	8.908500043	9.60345112	8.898665783	9.40419345	8.822979084	8.642307225	8.791933862	8.791933862	8.235440267	8.791933862	8.235440267	8.983551851	9.134276348	9.237560426	9.237560426
MLKL	8.884790907	8.722646549	8.608237264	8.720696272	8.252590472	8.674948153	10.00601274	8.795898277	8.945224669	9.464007048	8.91270772	9.066111371	9.28057090	9.26016579	9.26016579	9.204097014	9.126186183	9.126186183
RNF126	9.156780312	9.016280010	8.949849803	9.077844335	9.059765829	8.498207158	9.332302995	8.834757581	9.200260261	8.794992721	8.830391137	9.152422309	8.76710738	9.438568648	9.020292558	8.750531613	8.439270209	8.527026134
SAHHD1	8.429464562	9.1900918	8.942593143	9.06369505	9.095795678	9.192387429	9.581126736	9.192387429	9.581126736	9.192387429	9.581126736	9.192387429	9.581126736	9.192387429	9.581126736	9.192387429	9.581126736	9.192387429
DMAP1	9.008148563	9.113888339	8.269645658	9.286971985	9.325756013	9.101874172	9.265517441	8.762030682	8.827367172	8.985943608	8.815294533	9.626666305	9.317732952	9.213044479	8.848094497	9.51562466	8.612206520	9.074266252
SNX13	9.032708653	9.068307981	9.497279597	9.139832944	9.235945294	9.063708831	8.807933236	9.194097247	9.303368778	9.18271472	9.426877728	9.001499355	9.126161435	9.127126633	9.001615589			
TRA2A	9.984590924	9.204335382	8.822613187	9.204335382	8.822613187	9.204335382	8.822613187	9.204335382	8.822613187	9.204335382	8.822613187	9.204335382	8.822613187	9.204335382	8.822613187	9.204335382	8.822613187	9.204335382
UBE2V	9.968857015	8.448018282	8.686904011	9.174938906	9.105171769	8.845831901	8.998264474	8.459704046	9.033064653	9.39605552	9.214202399	9.799690779	9.639242692	9.419905959	8.873814836	9.047608605	9.01051242	9.175603212
FAM126B	9.512634431	9.219599499	8.948571163	8.948571163	8.948571163	8.948571163	8.948571163	8.948571163	8.948571163	8.948571163	8.948571163	8.948571163	8.948571163	8.948571163	8.948571163	8.948571163	8.948571163	8.948571163
YTHDC1	9.021773688	8.937136502	8.688943243	7.747070261	8.664287293	8.466420778	9.008631886	9.547848459	9.272172514	8.99368751	9.356579181	9.87555321	9.85820343	9.266930592	9.379619119	9.45065899	9.12819512	9.298586496
LINC01420	9.1592313748	9.002842566	9.004761068	9.002842566	9.004761068	9.002842566	9.004761068	9.002842566	9.004761068	9.002842566	9.004761068	9.002842566	9.004761068	9.002842566	9.004761068	9.002842566	9.004761068	9.002842566
CNNM3	9.53996677	8.81813696	9.157464751	9.310330344	9.456177696	9.33948621	9.385490112	7.320219461	9.051791758	8.733887685	8.875522914	8.24422122	8.977986736	8.649990699	9.156992476	9.275411112	8.932574355	8.950149309
ZFYVE21	9.085796569	9.329022782	9.164625562	9.329022782	9.164625562	9.329022782	9.164625562	9.329022782	9.164625562	9.329022782	9.164625562	9.329022782	9.164625562	9.329022782	9.164625562	9.329022782	9.164625562	9.329022782
HERC3	10.0294991	8.86850925	9.037048718	9.062318003	8.74540002	9.287674401	8.780659512	9.181183611	8.654370722	9.469050303	8.451607352	8.991720606	8.894550804	9.168888693	9.373872573	9.301020353	9.081704066	8.68096759
VAMP5	9.855298995	9.084144056	9.568728974	9.648472888	9.03905459	9.187529225	9.167416631	7.661075003	8.99108457	9.275592752	8.947698835	9.45770881	9.19070856	9.244798046	7.656105521	8.571538284	8.867039424	8.968379774
HSP1	9.99746098	8.965236236	9.181541718	9.158772557	8.686014775	8.183095747	9.389790836	9.025958883	8.92221243	9.195186809	9.00173653	8.812610798	9.038029904	8.84101026	8.765725565	8.920940266	9.635428495	9.635428495
FRG1	9.523518727	8.848490916	9.223256533	9.320289379	9.330277471	9.455436127	9.484591235	8.780460864	9.001362174	8.558517315	8.765277096	9.797066602	9.916780136	9.247050921	8.729534667	8.897807372	8.966564848	9.020771816
PLAA	9.023842739	9.396066319	9.227328429	8.527464828	9.532946822	8.543760753	9.490237387	8.597668883	9.209772555	8.66248882	9.047755629	8.541037307	9.599243718	8.643890084	8.812865630	9.141517939	9.002234663	
VAMP4	9.152052154	9.198589842	9.392158123	9.157645649	9.105307303	9.724011896	8.919611602	8.5258261	8.865463722	8.660502225	8.707350831	9.502297826	10.0006645	9.146876372	9.177945846	8.660284441	8.338889033	8.723958208
RINT1	9.041310487	7.863154867	9.206808247	9.010361024	9.059911468	9.039624549	8.467399112	9.010361024	9.059911468	8.687387114	9.614396867	9.707061648	9.433948967	9.341133703	9.07501938	8.757335355		
CTDNEP1	9.017423795	9.56456584	9.112949115	9.130113827	9.008812085	9.231126571	8.80086415	8.780162295	8.812166635	9.3791001	9.059111181	9.595911458	9.521817758	8.72000426	8.767784644	8.867219349	8.639824547	
SNRPB	9.694318598	9.57891913	8.59428912	8.885572979	9.503865534	9.237692049	9.241140682	8.647738905	9.391798599	8.782368888	9.069160274	9.972575803	9.049569668	8.513903264	8.540266507	8.52586467	8.667580304	9.178018276
TUBGCP3	9.444604677	9.106795283	7.119512013	8.72154156	8.655442167	8.515620372	8.605358495	9.10558877	9.345988775	9.173374838	9.210833538	8.87535269	8.594776779	9.73917867	9.0666770	9.155607464	9.55050526	
CTDNEP2	9.332513446	9.12352446	9.12352446	9.12352446	9.12352446	9.12352446	9.12352446	9.12352446	9.12352446	9.12352446	9.12352446	9.12352446	9.12352446	9.12352446	9.12352446	9.12352446	9.12352446	9.12352446
CDL23	9.349894813	9.349894813	9.349894813	9.349894813	9.349894813	9.349894813	9.349894813	9.349894813	9.349894813	9.349894813	9.349894813	9.349894813	9.349894813	9.349894813	9.349894813	9.349894813	9.349894813	9.349894813
COG5	8.672053262	9.470806278	9.740606728	9.52191466	9.319112345	9.559692697	8.067027981	8.666672585	8.69442543	9.021653417	9.359956421	8.887378814	8.434528697	9.50543319	9.98989761	9.407512855	9.11952522	8.135515033
C1orf27	8.463813013	9.279966421	9.759966421	8.463813013	9.279966421	9.759966421	8.463813013	9.279966421	9.759966421	8.463813013	9.279966421	9.759966421	8.463813013	9.279966421	9.759966421	8.463813013	9.279966421	9.759966421
SUPT4H1	9.094803637	9.669898158	9.477835633	9.983216689	9.165743808	9.153112107	9.47484177	8.668905172	8.808475096	9.037021046	9.607847336	9.95984762	9.25093351	8.800541429	8.596427041	9.47483631	8.686877766	8.670370721
BLVR4	8.565339127	9.174632243	8.897801246	9.514920166	9.34791132	8.773460356	9.122276717	8.569886121	9.64490371	8.850023027	8.78439265	10.00315129	8.82654305	9.135205921	8.832243822	9.776200521		
SMYD2	9.357069171	8.808580239	9.557181567	9.399162997	8.933908698	9.311774452	9.628504417	9.032157699	9.404402765	8.949211517	9.22042607	8.65617925	9.539941192	8.188122715	8.79848372	8.630088479	9.89779301	9.875816343
FKBP1	9.426403978	9.206707889	8.82567945	9.419909779	8.818990779	8.784129029	9.534156123	8.686657733	9.394997973	8.947949793	8.847922966	9.020448716	9.321864404	9.094805995	9.184117657	8.381428812	9.93811467	9.103531515
VTG1	8.996642151	9.066707094	9.01080023	9.226610411	9.12906578	9.12906578	9.226610411	9.12906578	9.226610411	9.12906578	9.226610411	9.12906578	9.226610411	9.12906578	9.226610411	9.12906578	9.226610411	9.12906578
ROCK2	8.806762877	8.780840385	8.744711803	8.560009001	9.738479998	8.80981489	8.618495497	9.068249813	9.004257335	9.537611668	8.95028111	8.712717121	9.464602905	9.007892977	9.306704249	9.94726613	9.374891322	9.564466657
PH3	9.390902689	8.390902689	8.390902689	8.390902689	8.390902689	8.390902689	8.390902689	8.390902689	8.390902689	8.390902689	8.390902689	8.390902689	8.390902689	8.390902689	8.390902689	8.390902689	8.390902689	8.390902689
UBA6	8.370706462	9.174537398	8.893646486	9.511821869	8.800808145	9.686253435	9.511302844	9.121601409	9.709403707	9.320482645	9.176336615	9.020905959	9.142383861	8.889768903	8.477499917	9.197359235	9.169648706	9.188375231
NPAT	9.087150031	8.979526154	8.819096216	9.450976215	9.71830537	9.466079675	9.235186643	8.935211133	8.554328583	8.955597725	7.316210033	10.1059464	9.901761203	9.107838829	8.823671956	9.788917513		
STAR2D	9.15461111	9.450407689	8.945935952	9.059702472	9.644645536	9.027250089	9.116089249	9.216705525	8.54869523	9.172651769	8.949211517	9.22042607	8.65617925	9.539941192	8.188122715	8.79848372	8.630088479	9.89779301
ATP9B1B2	9.17703585	9.14348486	8.831943498	9.05791925	9.257105023	8.082117469	8.854754065	8.82548346	8.754985185	8.872256679	9.312489275	9.301298718	9.634429672	9.16566225	9.100755685	8.835776475	9.727171731	

ZDHC12	9.429069542	9.487583452	9.238512218	8.653895851	9.264787822	8.479728379	8.811737568	8.209798795	9.06534785	8.711625486	8.924766574	9.192746442	8.977661656	8.266029873	8.750245234	8.419347651	8.313788007	9.14424582
ZNF106	9.013420222	9.724683724	9.259948514	9.245260327	9.368144633	9.126729351	7.446481576	9.052721625	7.740835367	8.740385367	8.740953679	9.269833738	9.251125661	9.088329827	8.887963252	9.101260352	8.74432422	8.693702044
SIMAP	8.502494822	9.773041519	8.927476369	9.019855779	9.042555066	8.658626666	8.086580598	8.971670945	8.534005211	8.907886157	9.048576205	8.900395028	8.85089798	8.046661132	9.261156374	8.855390332	9.25425185	9.202402808
CREBB	8.26203048	8.217302482	8.141891607	8.280092098	8.105203914	8.740251167	9.787166108	9.630834766	8.889489487	9.020027924	9.29551815	8.896193666	8.138706877	8.05005735	9.23271405	9.020438459	9.278680711	8.779580011
SUZ12	8.427040815	9.16040952	9.173413967	9.235713867	9.28440637	9.30180564	8.894642043	8.775252814	9.119625866	8.93649991	8.235713867	8.52389811	8.852951311	9.154844804	9.160720216	9.160720216	9.24446138	9.24446138
LTS1	8.565179418	8.456817885	8.45493939	8.562193141	9.044434368	9.09676311	9.390202751	8.599483699	8.29873888	8.700690069	8.865142116	8.005262969	8.74221211	9.40139663	9.025666633	8.124435587	8.627592758	8.780901574
PAN2	8.962034388	8.935044694	8.843054114	8.91226824	8.63465459	8.547331259	8.876495578	9.735237428	8.891269098	8.820401974	8.8395147	9.743773295	9.628031559	8.345056289	9.102606618	9.192020884	9.10494512	9.416261818
EFAE2	8.981262558	8.945407766	8.570398987	8.570398987	8.966512215	9.147246838	9.151166777	8.966512215	9.184722215	8.824809773	8.930349351	8.398828655	8.406828657	8.835270722	8.661489742	8.9103183	8.197909705	9.025005043
SETD5	8.394454438	8.873586473	9.027628295	8.542403374	8.240470313	8.689640003	8.453870881	9.551086309	8.603042022	9.620132752	9.278466038	8.35826299	9.386461217	8.65812953	9.1687571	9.25424674	9.0742486	9.02229943
ZNRF2	8.303318119	8.83061297	8.722776216	8.722776216	9.479398937	8.956548511	8.963272055	8.987198476	8.892247405	8.956352105	9.260942311	9.466290932	8.388454969	8.568250295	8.93938464	8.574074666	8.78646209	8.78646209
DRAP1	8.750670018	9.16499217	8.901463811	8.956313796	9.152381725	9.189323405	8.803586237	8.668281176	8.903586237	8.668281176	9.04744607	8.898573746	9.5741257	9.263488091	8.571821019	8.798727312	8.721180325	9.086081648
SS18L2	9.272254767	9.396110392	9.209682416	9.44677691	9.0490512	8.883758186	8.760555814	8.536963922	8.927989562	8.927989562	8.700376871	9.169180746	9.611649052	9.015052892	8.531484266	8.908286283	8.546157798	8.956579398
LTS1	8.842570846	9.681148785	9.300285842	9.25075367	9.578429201	9.434250427	8.467201857	8.635376966	8.65473282	9.081381572	9.71448884	9.022783686	8.77058471	8.637504272	8.67855448	7.985339581		
PCGF3	8.968842191	8.590644771	9.4605548	8.778815322	8.97349802	8.563652387	9.05391471	8.911343648	8.447402616	9.124190643	8.979574374	8.550908388	8.394741955	9.26311755	9.93455115	8.777644262	8.958626723	9.088285503
MANZC1	8.924063844	8.590306335	8.855479792	9.06043844	8.53089208	8.835183057	8.901646502	8.980629239	8.691646502	9.406853231	8.420262886	8.948011896	8.8408988	9.06010704	9.755693316	8.945103118	9.451423937	9.033697602
NAPG	8.18812077	8.218758081	8.602129354	8.80561788	8.461965168	9.186662537	8.71537038	8.488226438	9.734808137	9.08675297	9.260388852	8.599666621	9.105156595	8.571937855	9.452129181	9.043698557	9.421404435	9.313482423
RHSDM4	9.142715987	9.029817469	9.105893895	8.800570698	9.372690187	8.075826526	8.884903228	9.230106666	8.768742433	8.981826329	8.887106966	9.271966616	8.327711714	8.326052632	9.099373452	8.571104803	8.910180137	8.910180137
RBMA2	9.03502475	8.824394728	9.824386214	9.14117501	9.842073218	9.931566664	9.178432366	8.613273203	8.825827111	8.830204951	9.989059692	8.674255559	9.851792284	9.312255474	8.487728098	8.06683456	9.949601394	9.086170346
PRR7	8.932795819	8.263131209	7.966267908	8.12625588	8.916972011	8.964899776	9.151818894	8.777347631	9.00694541	9.00694541	9.144972409	8.593837948	9.472846216	9.206387892	8.822748777	8.051466839	8.9542166	9.053308101
MKS	9.581702655	9.336489416	8.79692676	9.38513562	9.338534752	9.338534752	8.867809923	8.501367862	8.92892504	8.650964592	8.884893685	9.796373871	8.127323665	9.428794631	8.51712212	9.358786295	8.402061725	8.952192505
FTS1	9.02720394	9.05064095	7.812322355	7.775784115	8.454087075	9.139056666	9.078205719	9.409699963	8.823899442	8.823899442	9.320276216	8.844179951	8.592955181	9.156286997	9.188535312	8.96881876	8.731975511	8.71814
PAAF1	9.029239062	8.376830454	9.210758678	7.352283264	8.935106611	9.523424411	9.390215797	8.326848699	9.100731845	8.74407765	8.748914264	9.798289454	9.236765906	9.365669079	9.02114067	8.721165171	8.958252004	8.958252004
SP12	7.952447972	8.980772263	7.952732384	9.239008649	8.269854228	8.372845276	8.900052122	8.986099565	8.345445095	9.370411856	8.426583411	7.959560081	9.689897608	8.945134251	9.298875261	9.943387927	8.95941535	9.03079147
AFG1	8.250133178	9.02966517	8.603565596	9.29866517	9.07918087	8.947581278	9.32357166	8.494043804	8.91017833	9.085816786	9.545821373	9.840716267	9.863995949	8.877920983	9.517959622	8.761289286	8.115545077	8.115545077
GALK1	8.862256916	9.409099979	8.868664145	8.87866775	9.339777026	9.583561551	8.761146884	8.755625263	9.007800062	8.84848112	8.78739447	9.501438251	9.476448708	9.994369335	8.505184756	9.280277322	9.04588988	8.451762774
CR2	8.984375846	9.568870144	9.131002858	8.542212012	9.168217528	9.82906902	9.064202252	8.835903102	8.932630041	8.964791839	8.876557131	9.83472681	9.711171904	8.120517192	8.993718283	9.953795381	9.02199584	9.02199584
NLE1	9.113804976	8.928142238	9.527757369	8.74787453	9.47533642	8.78331112	9.054985407	8.617804056	9.035144521	8.822980444	8.76717283	9.752442684	8.64406995	8.977781371	9.57964661	8.73684842	9.038407197	8.74786269
CDK7	9.054043447	8.598854256	8.217373131	8.598854256	9.280488477	8.907274272	7.877074282	8.287326327	8.756546106	8.64118075	8.776128349	9.270649989	9.350640495	8.957685471	9.421873869	9.79066062	9.04580111	9.114049037
AF4	8.740612786	8.620536438	8.311899234	8.90737389	8.63292683	8.332529065	9.463488632	9.23139457	8.858108753	9.419808868	8.988243192	7.659655424	9.873571559	9.546499599	9.2992904	9.210402638	9.303760286	8.64171341
RAB3D	9.301814097	8.794852633	8.794852633	8.945858963	9.61891781	8.769439357	8.955217259	8.97929642	9.00897609	8.85252446	9.24322931	9.331606636	8.781612954	9.988259886	8.53204886	8.51538766	8.70616369	8.70616369
CNT2	9.264169059	8.25965761	8.212537653	8.84879518	8.681620937	8.207803524	9.056261759	8.747114897	8.923598435	9.13712828	8.288010082	8.377505597	9.178718811	9.046579784	9.980450294	9.143895479	9.037160141	9.314565447
ARHGAP12	9.424224135	7.787806115	9.997000481	9.242816319	8.606287311	8.606287311	8.606298254	8.544648583	9.129187191	8.857893304	8.68093468	9.220075176	9.161948161	9.134671786	8.729704445	9.165043827	8.82506334	9.954544447
FBXO11	9.428892528	9.092383174	6.660059901	8.752738839	8.814794781	8.412710333	9.224810076	9.16235091	8.481193872	8.795920958	8.66412438	9.044385343	8.803892406	9.058613669	9.977014948	8.99231994	9.065973472	9.065973472
ARH10	9.98024625	9.85604244	8.951987883	9.037289253	9.748734028	8.951821566	9.731156179	8.79837468	8.798695869	8.850209625	9.796370287	9.50242302	9.24780575	8.756242179	8.763188886	9.376338419	8.763338419	8.763338419
GPCR1	9.018779545	9.108723931	9.018779545	9.018779545	9.09560462	8.916703274	8.916703274	8.916703274	8.916703274	8.916703274	8.916703274	8.916703274	8.916703274	8.916703274	8.916703274	8.916703274	8.916703274	8.916703274
SRD10	8.373810900	7.86055215	9.23728938	8.827044223	8.77217095	9.119587702	9.52995813	8.467617947	8.94064228	8.906834958	9.189827668	9.050023136	9.184710073	8.870180287	9.933074703	9.021714484	9.136946555	8.505427149
UR1	9.267773909	9.149013847	9.092173613	9.149013847	9.157182238	8.449733802	9.137190715	8.449733802	9.137190715	8.449733802	9.137190715	8.449733802	9.137190715	8.449733802	9.137190715	8.449733802	9.137190715	8.449733802
MADD	8.649916088	7.482671671	9.806762688	8.449223218	8.345926412	8.444027988	8.018593036	9.354240047	9.323843569	9.54527998	8.99180438	8.989602377	8.83340202	7.670743917	9.944131354	9.002153732	9.55315762	8.743180043
AARS1D	9.120153994	9.082576294	8.994622984	8.581052362	8.446787171	9.165580649	8.89919527	8.89240354	8.788573632	9.180101396	8.89240354	8.788573632	9.269334658	9.180101396	8.636174587	8.488310573	9.136235488	9.136235488
MRP56	9.119454907	8.356096134	9.375229584	8.728901024	9.027018121	8.20751054	8.29569449	9.952820662	8.86186723	9.314684128	9.314684128	9.505117456	8.843347514	9.010102458	9.56151359	9.038675876	8.854483848	8.448380064
NN	8.782082527	9.843048883	9.347966051	8.711174943	8.922028616	7.93370216	8.948911866	9.322448068	9.56779617	8.844474934	9.192592265	8.983370216	9.038738373	8.756504923	9.377025402	9.435786818	9.02329333	8.439797806
CDKN2E3	8.695758427	8.37287188	8.188196623	8.188196623	7.41079968	7.40524131	8.927147812	8.640384864	9.087594818	9.087594818	9.087594818	9.08759481						

PPRC1	8.643457032	8.534468356	8.38311011	9.312160856	7.79647366	9.037300695	7.966931626	9.423233985	9.017385749	8.26265035	9.296027322	9.422703009	8.907115664	8.757010886	9.390712484	9.324796852	8.745344204	9.617318212
EXOC3	8.594727401	8.547902719	8.81642681	9.282297855	9.795814447	9.795814447	9.179841447	8.673463451	8.72977438	9.956832618	9.11726615	8.765784051	8.515062908	9.561181	8.923376364	9.01139699	9.258478952	8.814138578
HELZ	8.124632725	8.507601155	7.056109259	5.972784943	9.03707847	7.255057299	9.551405088	9.495631822	8.802029953	9.002043938	9.102553603	9.488846437	8.435620917	9.702379463	9.414641145	9.704616659	9.873533637	
TAB2	8.950574177	8.12404015	8.889221175	9.261000036	9.245014905	8.87361144	9.020622032	8.799325663	8.41076073	9.017919726	8.637241294	9.009874582	7.622936601	9.330388844	9.159739343	8.849096102	8.932347962	8.381794257
FAM1441	8.755280289	8.856050883	8.98311373	8.85265083	8.98323675	8.626614938	8.98323675	9.08814454	8.580929078	8.580929078	8.68647039	8.786471928	8.39730735	8.703051682	8.39730735	8.703051682	9.035130169	8.703051682
FAM5DA	8.937068938	9.327715455	8.907806932	9.060941519	7.74637866	8.410218271	9.018552271	9.018552271	8.645848123	9.755046142	8.654812311	8.403137463	8.61625762	9.286975217	8.539236802	8.912326802	9.498639241	
BABZ	9.442224004	8.71580031	8.428006601	8.399204335	9.06714299	8.880855276	9.550767531	9.253082114	9.311935598	8.928542192	9.314595902	8.810175124	8.609201177	7.960024072	8.418374965	9.158520599	9.23717248	8.66687505
NU8R	9.336066314	9.384910119	8.990769799	8.58145529	9.156389297	9.181711037	8.597034532	9.62148481	9.96668375	8.732440275	8.732440275	8.732440275	8.732440275	8.732440275	8.732440275	8.732440275	8.732440275	8.732440275
ALAD	8.923679275	9.386029278	9.146314475	8.842660592	8.691743169	7.431766148	8.200216696	9.948057864	8.89017308	9.270174382	8.675069572	8.839919663	7.202167405	9.647866093	9.077457209	8.93788726	8.85217031	8.32576903
LEM02	8.903703928	9.587527269	9.118704958	8.65560465	9.09681621	9.09681621	9.09681621	8.82570465	8.949012913	9.143829194	9.017309091	7.527586887	9.020314666	9.931022327	8.657326477	8.54318242	8.9046591	
UMH2	9.417821139	9.018620113	9.185194255	8.656560465	8.800975677	8.857856319	9.085828819	8.864020406	9.800729213	9.021229127	8.76241199	9.11420171	9.234528819	9.74653111	8.863171831	9.75262319	8.83711835	8.76471835
HBR3	8.977766225	8.211702102	8.906160937	8.839775539	8.566606888	8.469396998	8.759256206	9.969946657	8.721462824	9.25615899	8.668240123	8.842357191	9.372451862	9.165467977	9.561820022	9.106858696	9.025440639	9.78732489
MTM8A	9.137065989	9.45489421	8.522718034	8.522718034	7.397499093	8.513380869	8.54790854	9.308275157	9.195185116	9.158071202	8.69527265	9.168828822	8.259896786	9.021320691	8.995959988	8.798934831	9.338895438	
FOXO1	8.883398379	9.32445125	7.58657077	8.902193765	8.677559474	9.345113009	8.799710102	9.518657843	9.372000488	8.881890801	9.855133192	7.649478002	8.30456077	9.021469634	8.90990467	9.305839482	9.277652005	9.104027728
ABRACL	9.544509308	9.17899507	9.107959574	9.567462754	9.107457422	9.107457422	9.107457422	9.456833432	8.850477911	9.451566175	8.951178235	8.95596893	8.79659507	8.038345674	8.05845052	8.74756488	8.424303241	9.08278943
MFS0D	8.775706926	9.067818669	8.804076848	8.889776007	8.532306634	8.967450253	9.268035004	8.91990122	8.12198557	8.62267102	8.020925887	9.316483599	7.457068001	9.162747383	8.970384226	8.92047637	9.010072265	8.999321394
GPZT	9.147314094	9.586866711	9.369084069	8.856271123	7.49836062	9.334447809	8.732640051	8.856385633	9.237561556	8.787297327	9.418528373	8.176002355	8.814671996	9.108124827	8.563223676	8.532315506	8.535848278	
SIC43A2	9.789292758	9.363741572	9.390589841	8.432927747	8.80614666	9.248989816	8.639078319	8.749727153	8.565917551	8.655659911	9.065143574	9.936912148	9.009959533	9.83782883	8.495608525	8.835271005	8.329808485	
LAMTOR2	9.041504293	9.378563442	9.363367803	8.81946638	9.021461952	9.03438063	9.03145917	8.690476114	8.830619553	8.590904259	9.920375149	8.989084756	9.379709581	8.646685129	8.554655417	8.476740957	8.868912642	
FJA1	9.417911365	9.379386695	8.801039183	8.97182344	9.303752255	9.579483264	8.648870461	8.602293318	9.289897716	8.63374452	9.040487796	9.610948843	9.346537076	6.259841644	8.613606959	8.248667348	8.628891873	
UDR8	8.664212575	9.224256446	8.888532378	8.797936798	9.164025344	9.517514045	9.110657723	8.626344849	8.76057086	9.083494004	8.76057086	9.083494004	8.76057086	9.083494004	8.76057086	9.083494004	8.76057086	9.083494004
CDCD130	8.95816271	9.328782075	9.638952805	9.114316933	9.295630615	9.77616025	8.864847484	8.777831241	8.677314832	9.374677304	8.108350606	9.499398893	9.080039292	8.578617615	8.846552763	9.145396275	9.045196275	
IO07	7.901042611	8.204255937	8.475600018	8.937670056	9.065724329	8.142977911	8.679344822	9.279554666	9.296686996	9.281574984	9.202638551	8.434813909	8.268707608	8.865644472	8.830826845	9.090415709	9.012962499	9.8611265
FOXJ3	9.810638799	8.470722821	9.725537976	9.100880133	9.011880133	8.771002634	8.880549755	9.260639292	9.003888335	9.006496649	9.336920888	7.795892352	8.370829695	7.839663523	9.922255834	9.074467325	9.545713588	8.979234828
EPB414A	8.882581283	9.709686379	8.859626027	7.056149811	9.204607923	9.84357116	9.248566715	9.104368125	9.247312039	9.09945502	7.85419734	8.172622366	9.93424879	8.955795278	9.171262586	8.784031278	8.644314282	
FAM168B	9.396416025	9.82784015	8.532483086	9.024109145	9.167224895	8.81968815	9.194260523	9.139604311	9.998815492	9.966013905	8.138050034	8.337642492	8.836211974	9.938549566	9.208325011	8.862955033	8.785625588	
CDX15	9.216985784	9.026266355	9.033778026	8.874352761	9.142016587	8.491056277	8.396985971	7.705678861	8.848409586	8.677001092	9.055642528	9.104826467	9.250864253	8.585892761	9.90346068	8.89733351	8.870988127	9.05171697
FAM11FP5	8.973282829	8.973282829	8.973282829	8.973282829	8.973282829	8.973282829	8.973282829	8.973282829	8.973282829	8.973282829	8.973282829	8.973282829	8.973282829	8.973282829	8.973282829	8.973282829	8.973282829	8.973282829
T0B1	8.882185159	9.021236002	8.923362727	8.787808906	8.807421167	8.874014032	9.129242966	8.893232807	8.893232807	9.015401991	9.025719462	8.936205616	9.102441617	9.003208969	9.314073568	8.647956211	8.876029313	9.045750811
VALL	8.992574761	9.513066821	9.085240047	9.262671886	9.14975463	9.050485547	8.656128246	8.770005538	8.940623886	8.85778769	8.718138669	8.817060418	9.079309622	8.635226463	8.79437345	8.774545895	8.665070568	9.74126855
MAPAK3	8.248327362	9.353454003	7.625742259	9.085405803	7.962580083	8.698344049	8.850637486	9.426165152	8.915250721	8.961720683	8.894168814	8.900281114	8.072039787	9.613030465	9.258754688	9.36484158	9.976633757	
CENPC	9.013407399	9.101442319	9.101353174	8.508751065	8.080241116	8.677344086	8.205999449	9.14238005	8.507409728	9.021600231	8.368557277	9.008932138	8.887519703	8.297726738	9.366518002	9.875604733	8.906799047	8.86740249
EXOC10	9.19822923	8.692238674	8.692238674	9.117597264	9.368805275	9.098448117	8.561660437	9.985682789	8.561660437	9.18724446	8.74372216	7.980993818	8.877008989	9.90561243	9.916975783	8.984061498	8.98181482	
ARMCC6	8.482800971	8.302717534	8.846173901	9.069997037	8.808370995	8.033470043	9.474436496	8.933106823	8.843765724	8.086272635	9.375336622	9.321394052	9.003681687	8.553232894	8.461076508	8.749095591	8.900305594	8.89047928
TP3B1	9.531285736	9.034917346	8.795817346	9.123778023	8.577779721	7.927697888	8.344287717	8.936312564	8.821461878	8.309741332	8.984140738	8.821461878	8.984140738	8.821461878	8.984140738	8.821461878	8.984140738	8.821461878
SIC39A13	8.875985889	8.875985889	8.875985889	8.875985889	8.875985889	8.875985889	8.875985889	8.875985889	8.875985889	8.875985889	8.875985889	8.875985889	8.875985889	8.875985889	8.875985889	8.875985889	8.875985889	8.875985889
NFKB1	6.998946548	7.919082239	7.919082239	7.919082239	7.919082239	7.919082239	7.919082239	7.919082239	7.919082239	7.919082239	7.919082239	7.919082239	7.919082239	7.919082239	7.919082239	7.919082239	7.919082239	7.919082239
FURP3	8.941095017	9.623950527	8.82967561	9.001103148	8.82967561	8.452767797	8.807884507	8.856522266	8.886165577	9.21138997	8.882977263	8.737884878	9.30249185	8.961266063	8.937711477	9.21555919	8.895025329	8.980493469
PRADCI	8.576703693	9.163005497	8.746101055	9.141540588	9.139942443	9.163957966	9.59402222	8.711935844	8.859920104	8.32926893	9.146946535	9.017412341	9.745898568	8.780096664	8.443302539	8.334638407	8.675915642	9.282565009
EPCI	9.492199159	9.635311104	9.635311104	9.635311104	9.635311104	9.635311104	9.635311104	9.635311104	9.635311104	9.635311104	9.635311104	9.635311104	9.635311104	9.635311104	9.635311104	9.635311104	9.635311104	9.635311104
VAR52	9.18785113	8.854809325	8.854809325	8.854809325	8.854809325	8.854809325	8.854809325	8.854809325	8.854809325	8.854809325	8.854809325	8.854809325	8.854809325	8.854809325	8.854809325	8.854809325	8.854809325	8.854809325
CPM02D	9.49580189	9.63551779	9.136928896	8.628970134	9.13093351	9.14063059	8.702266055	8.880147806	9.993580354	8.60347332	8.81170581	8.721751933	8.497576037	9.20023855	8.895620849	9.026731301	8.8	

CHORDC1	9.23383167	6.97010918	8.45970346	9.36573044	7.62666541	9.36408862	8.09659079	9.37412667	8.81610942	8.72921048	8.92729535	8.19277222	9.16397227	8.640782309	9.51722573	8.665983471	9.132536336	9.105698215
Cbor33	9.13952329	9.063224463	8.555278913	8.923647384	8.54356629	9.288530722	8.81908713	8.56827789	8.96151832	8.417864288	8.48547846	9.25078496	9.161496721	9.145633662	8.65189086	9.95837274	8.45865662	8.93051893
POLDP3	8.694047018	8.75258365	8.93885248	8.907051645	8.98705429	8.981841019	9.030246193	8.86585454	8.95117848	8.63707624	8.87478461	8.459173576	8.456782519	8.992490363	8.877128013	8.718651007	8.60426777	9.37145964
Cl1orH8	8.853045575	9.159551267	8.950058968	9.147206982	8.889991593	9.362687187	8.969050087	8.199198525	8.373393994	8.312245948	8.351596783	8.986176483	9.246889388	9.423495556	8.239001546	8.370565186	8.396026841	8.869425267
THADA	8.934510815	8.943034763	8.943034763	8.943034763	8.943034763	8.943034763	8.943034763	8.943034763	8.943034763	8.943034763	8.943034763	8.943034763	8.943034763	8.943034763	8.943034763	8.943034763	8.943034763	8.943034763
NETL5	8.1948923491	8.920948193	8.824862668	8.910697526	8.809916735	8.942965854	8.976026622	8.905202369	8.84669709	8.869818139	8.860193562	8.880193562	8.744252601	8.88210946	8.880004391	8.823260011	8.78524679	8.825326011
PP1R14B	9.005107873	9.60555312	8.503543905	9.490005455	9.274746031	8.867532295	9.227368680	8.742005829	8.69218175	8.62580775	8.827289703	8.935424101	9.190749828	9.029875483	8.827306443	8.250131216	8.440795491	8.836095762
MKRNZ	9.006263686	8.880805744	9.515497964	9.28449365	9.29439465	8.436829377	8.691160963	8.456668727	8.52813784	8.51176012	8.192411703	9.109568605	9.405584935	8.876738536	9.06783644	8.676867167	8.40174638	8.869425267
R11-812E1	8.329642413	10.02186743	7.901405455	6.930705403	8.897220004	4.989882411	9.360733468	9.030659582	8.841537847	9.362534444	9.576043904	4.65886719	9.02665366	7.177091008	12.6653546	4.279730746	8.572028253	4.978322124
EGLNZ	8.703452345	8.382321745	8.716189647	9.1084718894	9.17873514	8.873495992	9.413151119	8.816636933	8.904292973	9.128392807	8.181668936	9.116768825	8.477600793	9.116734444	9.059858246	8.917559733	8.86375262	8.869425267
KIF13B	8.897057185	9.347974577	8.313149432	8.577740889	8.923145603	9.030913941	9.391292949	9.748802244	8.81431764	8.59953113	8.848666512	8.899400449	9.633070471	8.821454382	8.779030628	8.705294706	9.133299027	9.166652008
OSPB	8.62371848	8.118651388	8.470811927	7.9871159	7.803666317	8.701241529	9.31601881	9.104336603	8.98199069	8.45580082	9.4253307	8.65670793	8.86249091	9.28437166	8.873784325	9.01459519		
GALT	8.88056682	8.962453474	8.496973616	8.855384728	8.779104231	9.006759658	9.429829579	8.589092475	8.227092625	8.650265929	8.628305798	9.698369319	9.332565798	8.774434564	8.97814617	9.095282264	9.035230569	9.904534735
PIGP	8.890260583	8.890260583	8.907614894	8.902835659	9.20593572	8.510983039	8.959636493	8.546164078	9.010979101	8.261299239	8.708615461	9.479848752	9.022504952	8.70869365	8.690488231	9.032736497	8.585656647	8.692165355
LSM	8.588466513	9.198394195	8.615032319	9.036635085	9.331448322	9.018336091	9.900706213	8.834125096	9.96445821	8.776814816	8.788196434	8.747325207	9.29461119	7.965705373	8.435626735	9.110056128	9.059473719	8.105979396
CRV2	9.267103384	8.861835456	7.842838458	8.774673465	8.62931205	8.727739791	8.951133111	9.076991256	9.709652082	7.620208203	8.162440081	8.162440081	9.02531022	9.42359472	8.804874758	9.568883376		
COMMD7	9.759374029	9.320299951	8.938215109	9.320299951	9.320299951	9.320299951	9.320299951	9.320299951	9.320299951	9.320299951	9.320299951	9.320299951	9.320299951	9.320299951	9.320299951	9.320299951	9.320299951	9.320299951
LIMS1	7.842619234	8.201454342	8.65979734	8.65979734	8.65979734	8.65979734	8.65979734	8.65979734	8.65979734	8.65979734	8.65979734	8.65979734	8.65979734	8.65979734	8.65979734	8.65979734	8.65979734	8.65979734
MHCH	9.017878058	8.857508089	7.624877518	8.455480237	8.455480237	8.455480237	8.455480237	8.455480237	8.455480237	8.455480237	8.455480237	8.455480237	8.455480237	8.455480237	8.455480237	8.455480237	8.455480237	8.455480237
NIDC3	9.315967515	9.102770034	9.307740753	8.85118574	8.588072133	8.85212653	8.36613228	8.77720393	8.51734543	8.77720393	8.51734543	8.77720393	8.51734543	8.77720393	8.51734543	8.77720393	8.51734543	8.77720393
XPO1	9.007058958	8.786102078	9.016808769	9.487274918	8.71132961	8.268934444	8.769802747	8.769802747	8.769802747	8.769802747	8.769802747	8.769802747	8.769802747	8.769802747	8.769802747	8.769802747	8.769802747	8.769802747
RABGGTA	8.473522992	8.95191183	9.105280873	9.17176922	8.522252952	9.347084412	8.590094114	8.828759963	8.5898959	8.724859352	8.880966317	9.307547309	9.122704259	8.826553515	8.780282538	8.396928532	9.03045041	8.59619785
TMCO4	9.090208752	8.645871253	9.01976057	8.939616191	9.01976057	8.939616191	9.01976057	8.939616191	9.01976057	8.939616191	9.01976057	8.939616191	9.01976057	8.939616191	9.01976057	8.939616191	9.01976057	8.939616191
TYW1	8.899405419	8.350435418	9.350435418	9.350435418	9.350435418	9.350435418	9.350435418	9.350435418	9.350435418	9.350435418	9.350435418	9.350435418	9.350435418	9.350435418	9.350435418	9.350435418	9.350435418	9.350435418
ALYRF	9.20223466	8.179293697	8.78100977	8.78100977	8.78100977	8.78100977	8.78100977	8.78100977	8.78100977	8.78100977	8.78100977	8.78100977	8.78100977	8.78100977	8.78100977	8.78100977	8.78100977	8.78100977
ZNF63	9.059603738	9.167767393	8.838719429	8.834708779	9.171762772	8.98804286	8.71958806	8.518412138	8.89475568	8.279207985	8.71343272	9.618917372	9.129183377	8.68305376	9.192997983	8.846057983	9.192997983	8.846057983
MS154	9.043004368	8.95019237	9.732444719	9.31169914	8.732444719	9.31169914	8.732444719	9.31169914	8.732444719	9.31169914	8.732444719	9.31169914	8.732444719	9.31169914	8.732444719	9.31169914	8.732444719	9.31169914
BLZ11	8.20786404	9.12783185	7.741211428	9.036769489	8.936114226	8.985404286	8.972870846	8.96109867	8.645482373	8.640890398	8.662138767	9.564230362	9.298479769	8.785371569	8.954786628	8.75492243	8.613614417	8.724532867
PSCP1	9.380458607	9.220710353	9.046959229	9.220710353	9.046959229	9.220710353	9.046959229	9.220710353	9.046959229	9.220710353	9.046959229	9.220710353	9.046959229	9.220710353	9.046959229	9.220710353	9.046959229	9.220710353
HACL1	8.672825135	8.85461547	8.890284513	8.781013694	9.101172259	8.198482031	8.423165195	9.008413153	9.00556607	8.799880218	8.673994671	9.141524788	8.561662124	8.705294127	9.197542719	8.977919567	8.865758842	9.101094987
COROB1	9.202351697	8.45826604	8.969160865	8.45826604	8.969160865	8.45826604	8.969160865	8.45826604	8.969160865	8.45826604	8.969160865	8.45826604	8.969160865	8.45826604	8.969160865	8.45826604	8.969160865	8.45826604
TGBR2	8.765825169	9.311302814	9.171105777	9.537143188	8.731923186	8.271600845	8.719724543	8.648047118	9.849781376	8.880190179	9.510010109	8.759919533	9.391812401	8.168068357	8.839635576	9.225466001	8.072289033	8.495399093
PALC4PB	9.049616311	8.854619221	8.854619221	8.854619221	8.854619221	8.854619221	8.854619221	8.854619221	8.854619221	8.854619221	8.854619221	8.854619221	8.854619221	8.854619221	8.854619221	8.854619221	8.854619221	8.854619221
FBXL1	8.82725416	9.079865106	8.724796874	8.724796874	8.724796874	8.724796874	8.724796874	8.724796874	8.724796874	8.724796874	8.724796874	8.724796874	8.724796874	8.724796874	8.724796874	8.724796874	8.724796874	8.724796874
MZT2A	8.352442045	8.939435606	9.113884809	9.08139311	9.011538131	8.741055235	9.111657324	8.532592884	9.062711096	8.549465512	8.810127081	9.027878778	9.885282367	8.164953704	8.24434852	8.837680824	8.62360126	9.0090635
FAM5A	9.055252811	8.38110053	8.985480382	9.10670518	8.740162139	9.90866557	8.805147839	8.865882672	9.028766222	8.155028278	9.139581442	6.423189017	8.797858511	9.05707885	8.976201204	9.074386287		
EXOSC6	9.027307088	8.234149523	9.27836219	9.220739657	9.013801629	8.356088763	8.389056581	8.53923262	9.050430453	8.843694927	8.646217451	9.218542093	9.096881947	9.163313523	8.915040741	8.873518364	8.553864957	8.71397367
DXD10	9.019728003	8.884041533	8.369316258	9.00826757	9.00826757	9.00826757	9.00826757	9.00826757	9.00826757	9.00826757	9.00826757	9.00826757	9.00826757	9.00826757	9.00826757	9.00826757	9.00826757	9.00826757
LEPROT1	8.940114078	8.888287818	8.766241508	8.246646466	9.865211127	8.76017952	9.020870014	8.718431724	8.865675288	8.678872102	8.801284372	9.137388892	9.083866557	8.83966345	8.529494018	8.458544149	8.687448934	9.081843419
EXOC2	9.150252529	8.567248396	9.002756994	8.286862004	9.1867374	8.73470761	9.085084948	8.251085574	8.757999761	8.565073463	8.958297929	8.05178531	8.402070775	8.860142784	8.996593233	8.960138231	8.734618212	8.869425267
FAM13B	8.814502062	8.814502062	8.814502062	8.814502062	8.814502062	8.814502062	8.814502062	8.814502062	8.814502062	8.814502062	8.814502062	8.814502062	8.814502062	8.814502062	8.814502062	8.814502062	8.814502062	8.814502062
TRAPCC2	8.78708353	9.18180984	9.105619016	9.05578387	9.19289386	9.422999945	9.3264802	8.61934255	9.98933669	8.600852871	8.952478116	8.832127550	9.403251259	9.207447448	8.55182838	8.820975098	8.51763	

FBX021	8.263167092	8.899677273	8.731777298	8.530298534	8.721163259	8.924051739	8.946316317	8.775690452	9.393948038	8.831260655	8.830666061	8.851135286	6.77087258	8.936748959	8.602003092	9.106702607	9.128958343	8.68063004
ATXN17L3B	9.686768078	9.17399916	8.021368215	8.26320326	9.217351929	8.717066543	8.980457475	8.955979061	8.863646019	8.731658791	8.705642946	8.322139693	8.912570604	6.306751217	9.980725638	9.062618826	8.201347821	8.798272093
STXP3	8.835489016	8.494172063	7.787669827	8.893832026	8.517277171	8.811393783	9.123054578	8.286529464	8.832897275	8.654129945	8.70867069	9.02882275	8.80043334	8.947096653	8.39377663	8.631393779	8.835114449	
ZKSCAN1	8.816293403	8.409535601	9.18908735	9.57934206	8.772080517	7.01431902	8.667881375	9.356061301	8.844795037	8.973190509	9.34457142	8.976313575	7.200362665	8.643946767	9.095847633	8.874614546	8.720394942	8.950980818
PFMPC2	9.21450799	9.07050183	8.15558416	9.00043243	8.719692604	8.61766209	8.795690769	8.848075338	8.795666299	8.786284239	9.00665642	7.931091528	8.113180436	9.045534666	8.754199007	8.38014554	8.406664659	
C19H48	9.177199554	9.04662539	8.17708663	9.117342625	8.32885995	8.909394808	8.887481401	8.61383239	8.871683239	8.495411957	8.978697541	9.019842323	7.880321361	8.765204531	8.842689977	8.605125593	8.777802344	8.901510507
ANAP1CS	8.814903528	9.430324866	9.361240303	8.706429014	8.89252366	9.349898349	8.844189124	8.789110025	8.793872436	8.764694402	8.871330201	8.424859093	9.05388327	9.760345699	8.542840143	8.384578084	8.805122978	8.866520845
BLZF1	9.43819659	8.45513936	9.944530293	9.291410212	8.180217167	8.884972439	8.574954041	8.574954041	8.85992119	8.485173153	8.580823126	8.946954446	6.70468098	8.71108463	9.176208021	8.931072256	8.731652284	8.92727845
THAP5	9.38264519	9.480911793	8.328718184	9.093475691	9.178899191	8.452892698	7.911830358	8.474421605	9.440421166	8.932579061	8.734201496	9.985549029	9.133816318	8.170690991	8.294568111	9.200805308	8.665655401	8.386277266
WRB	9.113032535	8.813704022	8.804058592	9.098989058	9.579898958	8.186624642	8.223835519	9.94049419	8.922806626	8.923110139	8.795263935	9.158326298	8.615789356	8.059853328	8.742985524	9.232652725	8.581482333	8.562929526
HMGCR	8.759447003	8.693746003	9.500462008	8.90462008	8.220616003	8.63530927	8.332159296	8.604562008	9.024746533	9.263687003	9.182926484	8.229708822	7.296108608	9.131168301	8.897252087	9.376526252	8.028954875	8.790829298
BLCL13	8.896971367	9.534341117	9.504740423	8.990094972	9.005704623	8.727491576	8.222910141	8.758446184	9.284049523	8.710015906	9.01552282	8.336304362	8.706650653	9.733611163	8.469435019	8.575890306	8.577391637	8.978561331
ITFZ2	9.229085081	9.348824332	9.084122569	9.737214457	8.648537603	9.965382081	8.987405533	9.124082952	9.124082952	9.124082952	8.838478189	9.573603304	8.451464798	7.776995747	8.77637808	9.93040184	8.877822383	8.700143834
HLTF	8.261130235	9.108168957	8.135087034	8.2873339	9.492274238	8.30885632	9.490103979	9.054038008	9.357078486	8.76380534	9.0218797	9.235841085	9.026474471	8.68445318	8.80919458	8.82963077	8.824835172	8.480106346
GRP98B	8.862584248	9.21317922	9.805194877	9.086045653	7.678925919	8.300133017	8.442434154	8.56741916	8.65522046	9.008494757	8.729875906	9.078824957	8.780084975	8.790286329	9.029459123	9.105520371	9.077714234	8.932838922
STK10	8.167606526	9.176068211	8.594130711	8.889652852	9.23445327	8.683473943	8.652195456	9.440246196	9.98220102	9.007325862	8.99402038	9.153795227	8.713308812	8.706644051	8.949794528	8.636414131	8.825766036	8.823446744
ATP1A1	9.042269016	8.108051356	8.469208721	8.034788106	8.397615588	8.980695141	8.613611795	9.602932797	8.702797973	9.008181877	8.851680713	9.232808977	9.13769889	8.63363505	9.586149837	8.660291694	8.795607520	8.824999968
TMEM218	9.677919279	9.338769174	8.674431869	9.98721075	9.823779328	9.70166526	8.84039313	8.714751714	8.803602019	8.60893705	8.78462394	9.38832793	9.941437383	9.164770406	8.429226075	9.127798326	8.80124504	8.77882407
RPAIN	8.797374003	9.365874165	9.271054456	9.365874165	8.897754466	9.197096071	8.463220545	8.451914846	8.54502484	8.57705547	8.498621468	8.856977059	9.25229584	9.623083964	8.63785626	8.992761055	8.689654722	8.848395724
ACAD8	8.446325257	9.101102647	9.350569999	8.302055863	8.528321598	6.04817977	9.156129977	9.917939884	8.378624676	8.78624676	8.463966418	8.584895234	9.054160357	7.70173038	9.311435532	8.727789813	9.140274429	9.102644748
PCYT2	8.67231406	9.472325883	8.324437583	8.856023757	9.479437933	8.30298759	9.472241641	8.286916669	8.604034662	8.162853422	8.8207053	8.52329193	9.27487064	9.404142892	8.308364664	8.41083503	8.81248127	9.127393805
SMAD5	7.894822148	9.852053797	7.801787642	8.559933335	8.90943576	8.60349771	9.154190339	8.884146813	8.38041739	9.009996184	9.127285662	8.150791229	9.210309378	7.301926143	9.048140337	8.543532215	9.017107064	9.583485274
NUB1	8.224725008	8.806173491	8.832925564	9.552115793	9.004323253	8.449137533	8.712770698	8.8102767	9.063013504	8.86475399	8.359598152	8.981136289	8.901385899	8.048144355	8.648817296	9.101532152	8.459594027	9.039828375
GPB5	9.337095384	8.814649799	9.139783384	9.195545529	9.05624287	8.579428133	8.828213582	8.101747525	8.375948213	8.376581835	8.74701487	9.407673693	7.911551692	9.02865634	9.015908239	9.186676956	9.134631009	9.051602426
PNRC2	9.004192574	8.985366514	8.386938514	7.969437901	8.304471358	8.735931201	8.510866562	8.532269544	8.590043128	8.885151426	9.161642496	9.265899776	8.78453877	8.882584204	8.98594412	8.035731511	9.140756869	
NBPFF19	8.581059529	9.300029897	7.889414944	8.759989714	7.175771648	8.238856018	8.006183923	9.619869714	9.226565698	8.848652716	9.484900153	7.452530085	8.490955431	8.351512221	9.737619353	9.706100915	9.075499322	9.30438340
SNAPC3	9.19246478	9.066396127	8.110016848	8.684930983	9.053383661	8.476599378	8.705473995	8.854453854	9.127006937	9.316318538	8.684385707	8.716216899	8.688782353	8.899218548	8.522051341	8.788100692	8.781533883	8.823721041
PCPD2	8.910179812	8.72131406	8.737398256	8.410860541	8.72131406	8.410860541	8.72131406	8.410860541	8.72131406	8.410860541	8.920122115	8.712617535	8.552849535	7.557157333	8.674545155	8.865713375	8.865713375	8.865713375
DSN1	8.906055554	9.071754007	8.866750059	9.60745461	8.103375957	8.775371927	8.936578126	9.78710923	8.984749023	8.696474023	8.984749023	8.666268971	8.814803589	9.145870492	8.825474598	8.692759015	8.865617621	8.734780174
NOTCH2NL	7.392826572	7.55762794	8.447968476	9.695297007	9.69692133	9.034732094	8.691371745	9.630048619	8.861345207	8.9277211	8.82969479	9.039351146	8.30508168	7.094049726	8.924339928	8.745601678	9.228254425	8.810421575
HIPK1	8.144369592	8.030654235	8.64444539	9.625946114	8.811848607	9.544585818	8.482117548	8.656570075	8.907463018	8.482117548	8.8159173	8.499387701	8.92973761	8.909198134	8.828253811	9.102428228	8.757087961	8.908293917
IPK1	8.583338355	9.168754957	8.878370289	8.72811634	7.890083406	9.47551993	9.142844745	9.059492311	8.795838181	9.168804886	8.780025553	8.388586668	9.551896339	9.21166004	8.37273096	8.5270481	8.843746945	
SNRPB	8.583094737	8.976388373	9.151644614	9.184564087	9.447583586	9.67871873	9.08300721	8.258492286	8.710077846	8.674448827	8.661277026	8.797818507	9.012818184	8.280316921	8.367855464	8.246769211	8.437696211	8.437696211
ZC3H6	8.85227527	8.786624257	8.92502527	8.273456841	9.910527692	8.979759983	8.136000488	8.750766403	9.295234222	8.45790052	8.945576669	9.499732337	8.174143499	7.335381581	8.602049438	8.906455967	8.73193267	8.416188247
LCAL3	8.340598862	9.107192763	8.737398256	7.859509762	9.856691802	8.847632601	10.82839205	8.780796258	8.790704324	8.280796258	9.28016338	8.481148776	9.280696598	9.840161764	10.8672866	9.324416958	8.665176717	9.102414107
POGK	8.172815732	8.320615732	8.737398256	8.737398256	8.737398256	8.737398256	8.737398256	8.737398256	8.737398256	8.737398256	8.9255307542	8.230765342	8.716285448	9.380084437	8.165244154	8.746289489	8.650091789	9.340613022
LRCH4	9.06769302	9.33024158	8.451221891	8.089746512	8.92345657	9.10971383	8.837359706	8.79975898	8.663857302	8.524011705	8.747898679	9.133639224	8.587512593	8.726300918	8.894009071	8.838011853	8.87721389	8.765751339
TRAPP1C2	8.17118028	9.354667821	8.727860254	9.354667821	8.860382672	8.430778408	9.109890837	8.98816744	8.764436937	8.773273337	8.81614494	9.088859973	8.99335671	8.670771177	8.746746894	8.912176375	9.097901765	8.936532189
IFIH1	8.9416526	8.237216652	7.668801599	8.735274004	9.392577009	8.652866638	8.618396739	9.058295583	9.304284168	8.833519371	8.8470742	8.991031712	8.802402427	8.548481057	9.212800312	9.104198802	8.782321705	8.619425244
CRTC2	9.164124588	9.59250562	8.268789259	8.268789259	8.52120991	8.991055033	8.66032265	8.489149313	8.91023213	8.940237493	8.300883111	8.626870943	9.46726756	9.15873148	8.79948386	8.83055881	9.139758466	
NECAP2	8.06512029	9.373019023	9.373019023	8.607680321	8.567819566	8.176139888	8.68719566	9.052373094	8.910294104	8.724816036	9.022739394	9.072952431	9.301804275	9.219949109	8.795494193	8.703246764	8.464247721	9.011221275
CS3CB2	9.022651329	8.388640307	9.122943183	9.37438449	9.549740752	8.49963248	8.35425466	8.864400205	8.86476546	8.713508084	9.052210136							

FIBP	9.095949663	9.824553767	8.43498658	8.912538458	9.06501765	8.513228141	8.69827635	8.48324432	8.851042765	8.390654315	8.732853981	9.146425779	9.433099002	9.334678086	8.487412493	8.705520698	8.539696191	8.928583617
STR1P	8.101729408	9.04187591	8.921943742	8.082266482	9.46758434	8.237463334	9.123200737	8.908870227	8.349053632	8.792211047	8.54133579	8.686039668	7.635538852	7.348122693	9.200174908	8.791614446	8.884040408	9.180384776
SNRN#40	8.681870206	8.377659356	9.122114638	8.122114638	8.377659356	8.81404517	8.81404517	8.695440724	8.567507434	8.567507434	8.332444318	9.050605511	8.582331344	9.26057699	8.576004117	8.769364238	8.724773483	
MCMT	7.952949412	8.635988667	9.080237763	9.127313703	8.153513217	8.513093714	9.289939222	9.140463498	8.378745641	8.458959148	8.78064794	8.257715079	9.14904165	9.073624876	8.37753446	8.802567874	8.778498588	9.148982981
MPHOS#9	8.6082318	8.221366364	8.852698059	8.724391432	8.852698059	8.50210771	8.634808901	8.802873246	8.875806553	8.791308621	8.781106307	7.769435171	8.922095506	7.236867279	8.322095506	8.22095506	8.22095506	8.322095506
ENB18P#2	9.08180363	9.14852019	9.069297262	8.896784625	8.896784625	8.41290374	8.750714502	8.750714502	8.750714502	8.750714502	8.750714502	8.750714502	8.750714502	8.750714502	8.750714502	8.750714502	8.750714502	8.750714502
EMD	9.166894798	9.032883952	8.990508839	9.011872007	8.67540795	9.210541198	9.900898301	8.850871179	9.798304042	8.614984601	8.603272689	8.780895663	9.39031554	8.551853191	8.63087425	8.600770144	8.549998417	8.837259579
IFITM1	9.54085132	8.48177345	8.881701767	9.051477345	8.788063996	8.692410259	7.88613009	8.95655325	8.809117907	8.665918874	9.076937336	8.361709133	8.919246947	8.48182759	8.770043124	8.231478104	9.084074613	
TGDS	9.3647708	9.129608599	9.074597138	8.964347696	8.806603165	9.673602702	9.491709877	8.369159944	8.750280333	8.704275963	8.522771785	9.127329875	8.689737806	9.698270028	8.773710706	8.606712491	8.613965979	9.202014620
SMCS	8.754282771	8.200848832	8.744191011	8.988525143	8.594875137	9.432276871	7.727131136	8.961656012	8.820292996	8.382051543	7.170950196	8.831323878	9.531831208	9.165192581	8.764870861	8.348794088	9.386968972	
WRD8	7.767191261	7.888756794	8.007910088	8.007910088	8.589705129	8.986982474	9.020523811	9.144560275	8.693451297	8.703760189	9.110790604	8.902558033	9.056231811	9.309010103	8.519175563	9.175578645	8.801883068	8.821307503
AFM2	8.745242865	8.193393296	9.079917897	8.876891257	8.832058533	8.944415565	8.534132808	9.578828023	9.055809946	8.903456736	8.952638252	8.612563424	8.871974888	8.986951939	8.418179578	8.596540329	8.829642372	8.345822299
PM11	8.903482355	8.733554474	9.296504099	9.17549543	8.473459728	8.57207253	8.65128548	9.131478849	9.11520299	8.763259297	8.688210042	8.145333692	8.647508687	8.954853566	9.22207915	8.70406831		
PPF39	8.671071869	8.69368368	8.554091129	8.978511964	9.137996224	8.500323084	8.650191799	9.140502056	8.383492099	9.185271229	8.59605366	9.23271915	9.277916603	8.046365095	9.436252831	8.880378358	9.106850055	8.515461085
ARGHAP	8.817942504	8.298246534	8.744871862	8.744871862	8.350882035	8.261425286	8.804780897	8.638121612	9.079294035	8.638121612	8.574653116	9.106964251	9.29055222	8.587624337	8.788525557	8.785052422	8.780429604	
GLE1	9.173067306	9.041782021	8.613117102	8.352869127	8.993893931	8.515933543	8.891144166	8.668869333	9.124774579	8.729457322	8.842339739	9.427440408	8.957858207	9.304180217	8.606462687	7.940611887	8.567210427	8.128730119
AIMP1	8.960079332	9.017930049	9.653265084	9.111826624	8.402978034	9.0989237	8.103071432	8.335239609	8.78926197	8.577072	8.792005883	9.248652654	9.335644653	8.430215129	8.590043892	8.562302301	8.942272521	8.432624669
MAPK#3	8.77146972	9.02508906	8.2625188	9.032698152	9.0282225	8.764574269	8.954521497	8.6676013107	8.75664659	8.593949227	8.200624297	8.644889585	8.481898837	9.571079864	8.808288554	9.155546543	8.804602572	8.45455576
NEPRO	8.844700775	9.139483302	8.310861338	8.563328188	8.764574269	8.954521497	8.6676013107	8.75664659	8.593949227	8.200624297	8.200624297	8.644889585	8.481898837	9.571079864	8.808288554	9.155546543	8.804602572	8.45455576
CD3L2	9.153821611	9.158077502	9.118807049	9.158077502	9.118807049	8.735244932	8.732091443	8.396721089	8.390919911	8.323249622	8.58564605	8.09546169	8.970860723	9.112377814	8.603754252	8.495013452	8.17081222	8.37943439
TMEM45	8.823997268	7.5884065	8.189670864	8.907108364	8.33312188	8.446578141	8.446578141	8.286303471	9.44481574	8.51230922	9.15576419	9.91839301	8.248745634	8.20233113	9.050940025	9.091400971	8.743140299	8.570974683
THOP1	8.780671116	8.47880765	8.112327438	8.47880765	8.112327438	9.244953127	9.464423387	8.446578141	8.794803288	8.728689171	8.913361214	8.587308346	8.082632178	6.703405194	8.785168597	8.983667174	8.605602654	8.906685987
TFW2	9.109867605	9.070238986	9.607653253	9.29244145	8.808636303	8.842681901	8.807836922	8.246028754	8.532700342	8.491768456	8.757948213	9.027208189	9.53363113	8.302489975	8.317114854	8.472552978	8.562595365	8.635267067
MPLIK	8.847919575	8.75266849	9.162326731	8.874228889	8.75266849	9.122129952	8.361459592	8.501399308	8.255878781	8.812421091	8.514767619	9.049365625	9.069205989	9.100403456	8.420439593	8.594191054	8.701449095	8.919466963
TMEM184C	8.53364057	8.985007611	9.032307337	8.53364057	8.985007611	8.105234537	9.598380033	8.684653886	9.061660594	8.330046762	8.854279108	9.378018728	8.536074572	3.356835731	8.667849609	9.988523407	9.26870685	9.038426217
OGFOD2	9.145214715	8.469439044	8.681903435	8.128277874	8.799490013	8.888725431	8.496779082	8.38793146	8.631290848	9.38793146	9.173829048	9.552350095	9.48330524	9.280964441	8.897035151	8.763637745	8.819247459	8.71962232
SLC44A1P	8.544474203	8.243816463	8.88748034	8.959241024	7.950523931	8.548391321	8.369782487	8.833905919	8.638045043	9.356388665	8.193651244	9.957846182	8.189408299	9.41946871	8.768898959	9.040253824	8.29635930	8.683696993
GALNT1	9.172219239	8.772148127	8.952392389	8.772148127	8.952392389	9.172219239	8.772148127	8.952392389	9.172219239	8.772148127	8.952392389	9.172219239	8.772148127	8.952392389	9.172219239	8.772148127	8.952392389	9.172219239
PIGK	8.100419317	8.556237389	8.724433345	8.95237389	8.724433345	8.95237389	8.724433345	8.95237389	8.724433345	8.95237389	8.724433345	8.95237389	8.724433345	8.95237389	8.724433345	8.95237389	8.724433345	8.95237389
DYNC1L	9.352696187	8.597966533	8.994258857	9.074260026	9.006037504	8.861729663	8.536884024	8.390961719	8.755662991	8.520500606	8.698654779	9.014679919	9.422807223	8.564315208	8.808464809	8.872260446	8.530458575	8.636214947
PLIN2	8.685857374	8.937047026	8.592539735	8.678002312	8.295123975	8.861480895	8.350600307	9.043540548	8.610600307	8.458540604	8.499462625	8.222124979	8.669696520	9.479680536	9.202046098	8.460401277	8.798548708	9.567851111
CKLF	9.105382635	8.92328188	9.17174533	9.196168822	8.62854634	9.589896181	8.761261369	8.240045753	8.787826569	8.395260491	8.741037881	9.290194054	8.770632505	8.917204773	7.76738917	8.713405337	8.822380051	8.742429256
GALNT3	7.779649834	7.890390314	8.455581033	8.193800394	8.193800394	8.266071969	8.733098545	9.344386694	8.733098545	9.344386694	8.733098545	9.344386694	8.733098545	9.344386694	8.733098545	9.344386694	8.733098545	9.344386694
RBM48	8.673004344	8.232091424	9.25476779	8.665139561	8.397635324	8.712582344	9.388761036	8.769992323	8.238317032	9.024838355	8.25546929	8.793121257	9.481949268	9.471835104	8.567367375	7.888365813	8.988755163	8.320472606
GNAS1	9.374339932	9.078141227	9.050696625	8.980809925	8.850809925	8.980809925	8.850809925	8.980809925	8.850809925	8.980809925	8.850809925	8.980809925	8.850809925	8.980809925	8.850809925	8.980809925	8.850809925	8.980809925
MAP1A	8.319467924	8.590856005	8.780252552	8.41152766	7.774771153	8.774771153	8.774771153	8.41152766	8.774771153	8.41152766	8.774771153	8.41152766	8.774771153	8.41152766	8.774771153	8.41152766	8.774771153	8.41152766
KLFA	9.171635974	9.037236012	8.180257319	8.872063631	8.867813573	8.820025997	8.880069858	9.72706914	8.66534067	8.74624534	8.778188157	8.879419179	9.045970817	8.709339568	8.744823263	7.678390648	7.587375394	8.930289955
GNAS1	8.838787355	9.037618708	9.666932017	9.09938392	8.880941184	8.781719175	9.160154329	8.456194128	8.56194128	8.456194128	8.56194128	8.456194128	8.56194128	8.456194128	8.56194128	8.456194128	8.56194128	8.456194128
GT2F2	9.812604959	8.949653645	8.576239328	8.94596033	8.622806679	9.19487395	9.294211027	8.770395374	8.650158235	8.655121496	8.518045719	9.028795556	9.031990201	8.600929254	8.573675561	8.828400941	8.783980463	8.420839218
LIMD1	7.572832955	9.032017066	8.587026825	7.827797116	7.909286849	8.727797116	7.909286849	8.587026825	7.827797116	7.909286849	8.587026825	7.827797116	7.909286849	8.587026825	7.827797116	7.909286849	8.587026825	7.827797116
LRIF1	9.621982955	9.09064329	8.781509805	9.528019879	9.396374299	8.690693376	9.369755704	8.770378038	8.856845152	8.649178347	8.456742895	9.168225668	8.613442116	7.37052446	8.403803121	8.874687716	8.343525284	8.849978803
CNIH1	9.0719353	9.498549503	8.802929826	8.83138762	9.391573939	8.46629357	8.510986135	8.13415413	8.78296415	8.170835246	8.782522012							

POLK	8.059692631	8.510189241	8.683084017	8.282444412	9.452524669	9.029480919	8.403176316	8.621822645	8.833972985	9.093105895	8.729854307	8.702721055	7.721958968	8.542649787	9.001875315	8.874769666	8.781860271	8.805018876
LIG3	7.712426422	8.372623724	8.677847321	8.273197531	7.927268052	7.732384655	8.236023151	8.578363574	9.290686293	8.717484546	8.951866525	8.479310035	8.449327655	9.655458284	8.350048356	8.765744224	8.786633338	8.715027367
ZRSR2	8.839024461	8.098980257	8.745849442	8.499495982	9.255323934	8.706548438	8.726011504	8.514271729	8.895649654	8.582165888	8.455707982	8.542996149	9.237864521	9.169446124	8.133247414	8.539191629	8.725727222	8.530089399
AH1	7.939761779	7.714823994	8.268437679	8.148859375	8.994596886	8.868871413	8.409140531	9.078925794	8.402795161	9.527841105	8.570012748	8.453524479	9.593784406	8.544768445	9.272930222	9.178300409	9.725939311	8.703581192
EPH1	9.179433644	7.942397262	8.761956833	8.540442722	8.769128284	8.142136291	8.418218212	8.766944044	8.834548667	8.541626293	8.766944044	8.541626293	8.766944044	8.541626293	8.220790411	8.895127265	8.397169616	8.704251266
PPF3	8.532876664	8.532876664	8.242670908	8.982558777	8.772349981	8.975958383	8.450342058	8.670686678	8.605504772	8.670212172	8.583262629	8.538262629	8.731359056	8.641278226	8.836178517	8.403340019	9.032996077	8.580013191
PHR1	8.917477403	7.937480465	8.542536066	7.829343886	8.762847379	8.660150808	9.077679038	8.921131864	8.770638057	8.581514292	8.602191053	8.322718635	7.447780027	9.034545762	8.623082966	9.062807894	9.097206251	8.855211212
ATF6B	8.265677002	8.928224346	8.935272005	8.869906506	8.812127179	8.577474354	8.998196795	8.77649494	8.281098422	8.649295616	8.136988773	8.339629947	8.869640488	8.274039224	8.587947834	8.340611259	8.773644211	8.652661814
POLR3D	9.116220208	9.696073849	9.484428255	9.248294021	8.991976797	8.398516986	8.675889214	8.384164688	8.866040074	8.690376842	8.739371762	8.133105462	8.493772612	8.831301968	8.251035159	8.784808206	8.448739543	8.346581688
RINL	8.788854941	8.918681316	8.918681316	8.918681316	8.918681316	8.918681316	8.918681316	8.918681316	8.918681316	8.918681316	8.918681316	8.918681316	8.918681316	8.918681316	8.918681316	8.918681316	8.918681316	8.918681316
CPQ	8.979463863	8.744481817	8.864204058	8.744481817	8.864204058	8.744481817	8.864204058	8.744481817	8.864204058	8.744481817	8.864204058	8.744481817	8.864204058	8.744481817	8.864204058	8.744481817	8.864204058	8.744481817
THEM160	8.879628012	9.061877998	8.729077362	8.351748435	8.305408234	9.298718104	8.81495061	8.704492578	8.633070551	8.961095652	8.701527727	8.722281288	8.786087557	8.792012448	8.252993539	8.039002345	8.790702437	8.701518844
SMO2	9.067558588	9.034254449	9.022126569	9.022126569	9.022126569	9.022126569	9.022126569	9.022126569	9.022126569	9.022126569	9.022126569	9.022126569	9.022126569	9.022126569	9.022126569	9.022126569	9.022126569	9.022126569
ARL16	8.934704888	8.699480666	8.90278763	9.034345009	9.072995979	8.741266085	8.683585725	8.243077732	8.377352254	8.602329584	8.380362893	8.769891955	9.232326206	8.521107073	8.678088321	8.089519799	8.551426214	8.812274884
GOT1	8.906376441	8.923880161	8.22532052	8.22532052	8.22532052	8.22532052	8.22532052	8.22532052	8.22532052	8.22532052	8.22532052	8.22532052	8.22532052	8.22532052	8.22532052	8.22532052	8.22532052	8.22532052
IL15	8.471902429	9.284829665	7.326679912	8.838830567	9.095976608	8.93750552	8.69456273	8.482689374	8.016940602	8.37783124	8.048448292	9.443744576	8.89911164	9.004688322	8.573121921	8.363621695	8.956379521	8.727112449
CCL5	8.372798054	9.055778864	8.832061211	8.73272662	8.696030049	9.418582653	7.890217789	8.574551764	8.59183452	8.437102894	8.903681218	9.114974121	9.903003918	8.695372449	8.985384055	8.7254297	8.406890167	9.659737711
CD23	9.104011412	8.960121861	8.997107416	8.801725738	7.37169546	8.78039002	9.055269319	8.093166678	8.724601277	9.038888142	7.922409938	9.274400651	8.299510797	9.288784625	8.354684312	8.815411602	8.652731265	8.159709409
TKNS	8.854816486	9.251087377	8.492002013	7.887893095	8.780262578	8.448239196	8.687894382	8.24439506	8.678984382	8.24439506	8.678984382	8.24439506	8.678984382	8.24439506	8.678984382	8.24439506	8.678984382	8.24439506
ISAC2	9.32964714	8.785238912	8.911086999	8.936689703	9.114154878	8.765479389	8.771812028	9.968048666	8.472371354	8.054569076	8.585421116	8.54484456	9.292991295	8.976195489	8.093282331	8.576506002	8.218012891	8.625017178
LAGE3	8.724086556	9.072770437	8.729404559	8.824948831	8.955038861	9.024610987	8.699022709	9.345179989	8.265184198	8.135948886	8.498848274	9.092238735	9.068421243	8.900709097	8.101531785	8.273282565	8.123798735	8.542329064
RABB8	7.142939459	7.735007334	8.978044168	8.032583959	8.67116375	8.708370336	9.40643139	9.232044538	8.61037135	8.740644139	9.232044538	8.61037135	8.740644139	9.232044538	8.61037135	8.740644139	9.232044538	8.61037135
MCMS	8.725139593	8.227017743	8.69252272	9.988929524	8.949649351	8.722545133	8.88099969	8.621964609	8.848881972	8.034908589	8.686308948	8.265162446	8.477814448	9.276174391	8.618616439	8.77630995	8.485767644	8.917982326
FOXRED1	8.804933137	7.972744097	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137
RAB3GAP1	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123
MRP25	9.007182039	9.061376393	9.305312091	8.885367047	9.062448241	8.754923854	8.59399171	8.231144886	8.804967502	8.571705661	8.52534739	8.421878276	8.832082125	8.987251057	8.590815711	8.607036225	8.343024318	8.662014097
DDX50	8.448961804	9.002346463	9.27765349	9.244983055	9.199255036	8.601175813	8.66753312	8.137879191	8.902886649	8.353939058	8.808274772	8.749089943	9.204120357	6.649782626	7.651880472	8.788335052	8.532805359	8.371193128
ISG2	9.32964714	8.583238912	8.911086999	8.936689703	9.114154878	8.765479389	8.771812028	9.968048666	8.472371354	8.054569076	8.585421116	8.54484456	9.292991295	8.976195489	8.093282331	8.576506002	8.218012891	8.625017178
LAGE3	8.724086556	9.072770437	8.729404559	8.824948831	8.955038861	9.024610987	8.699022709	9.345179989	8.265184198	8.135948886	8.498848274	9.092238735	9.068421243	8.900709097	8.101531785	8.273282565	8.123798735	8.542329064
RABB8	7.142939459	7.735007334	8.978044168	8.032583959	8.67116375	8.708370336	9.40643139	9.232044538	8.61037135	8.740644139	9.232044538	8.61037135	8.740644139	9.232044538	8.61037135	8.740644139	9.232044538	8.61037135
MCMS	8.725139593	8.227017743	8.69252272	9.988929524	8.949649351	8.722545133	8.88099969	8.621964609	8.848881972	8.034908589	8.686308948	8.265162446	8.477814448	9.276174391	8.618616439	8.77630995	8.485767644	8.917982326
FOXRED1	8.804933137	7.972744097	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137
RAB3GAP1	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123
MRP25	9.007182039	9.061376393	9.305312091	8.885367047	9.062448241	8.754923854	8.59399171	8.231144886	8.804967502	8.571705661	8.52534739	8.421878276	8.832082125	8.987251057	8.590815711	8.607036225	8.343024318	8.662014097
DDX50	8.448961804	9.002346463	9.27765349	9.244983055	9.199255036	8.601175813	8.66753312	8.137879191	8.902886649	8.353939058	8.808274772	8.749089943	9.204120357	6.649782626	7.651880472	8.788335052	8.532805359	8.371193128
ISG2	9.32964714	8.583238912	8.911086999	8.936689703	9.114154878	8.765479389	8.771812028	9.968048666	8.472371354	8.054569076	8.585421116	8.54484456	9.292991295	8.976195489	8.093282331	8.576506002	8.218012891	8.625017178
LAGE3	8.724086556	9.072770437	8.729404559	8.824948831	8.955038861	9.024610987	8.699022709	9.345179989	8.265184198	8.135948886	8.498848274	9.092238735	9.068421243	8.900709097	8.101531785	8.273282565	8.123798735	8.542329064
RABB8	7.142939459	7.735007334	8.978044168	8.032583959	8.67116375	8.708370336	9.40643139	9.232044538	8.61037135	8.740644139	9.232044538	8.61037135	8.740644139	9.232044538	8.61037135	8.740644139	9.232044538	8.61037135
MCMS	8.725139593	8.227017743	8.69252272	9.988929524	8.949649351	8.722545133	8.88099969	8.621964609	8.848881972	8.034908589	8.686308948	8.265162446	8.477814448	9.276174391	8.618616439	8.77630995	8.485767644	8.917982326
FOXRED1	8.804933137	7.972744097	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137	8.792744097	8.804933137
RAB3GAP1	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123	8.409670123
MRP25	9.007182039	9.061376393	9.305312091	8.885367047	9.062													

ANTXR2	8.614708827	8.142435695	8.418170523	9.191584819	7.258287316	9.067905182	9.268213019	8.795156824	8.477309516	8.659909087	8.666581191	7.572775599	8.633257417	8.339529472	9.539993739	8.793372645	8.421034397	8.948323626
RNR3	9.100278939	9.002708258	9.168664165	8.29257306	8.63267783	8.634141269	8.152897965	8.925419025	8.63267783	8.634141269	8.152897965	8.925419025	8.63267783	8.634141269	8.152897965	8.925419025	8.63267783	8.634141269
ENOX2	8.886679438	9.065636788	9.065636788	9.766792872	8.866532754	9.727914854	9.798741543	7.313420923	7.58555437	8.917838181	8.737927288	7.932396877	8.473207044	9.479974331	7.819666531	8.576248771	8.325807721	8.878976218
PPPS3	7.729722111	8.263413004	8.690997552	8.887488039	9.157692609	8.745249042	8.520302758	7.448005115	8.598781725	8.399940045	8.119357073	8.848573922	8.954266108	8.488881945	8.495019058	8.553943643	8.694734728	8.320473728
COX5B	9.129641931	9.026814883	8.644215708	9.144875586	9.08525108	9.08525108	9.29007765	8.659153683	8.659153683	9.29007765	8.659153683	9.29007765	8.659153683	9.29007765	8.659153683	9.29007765	8.659153683	9.29007765
ATADA3	8.551868939	8.551868939	8.551868939	8.551868939	8.551868939	8.551868939	8.551868939	8.551868939	8.551868939	8.551868939	8.551868939	8.551868939	8.551868939	8.551868939	8.551868939	8.551868939	8.551868939	8.551868939
KIAA0430	8.54065477	7.56754054	9.059690377	8.69358577	8.979182466	8.464008774	9.110444722	8.623340865	8.499177019	8.824054598	8.663206548	8.354935463	9.22376964	9.114558273	8.817680611	8.620317371	9.253657005	8.575585375
PANKA4	9.226436254	9.075720768	8.489358177	8.969891862	8.495166103	8.160094593	8.249515205	8.673595899	8.249515205	8.673595899	8.249515205	8.673595899	8.249515205	8.673595899	8.249515205	8.673595899	8.249515205	8.673595899
SIN3A	8.430502614	9.311698347	8.497133735	8.34199253	8.505651708	8.810716122	8.700831135	8.685559986	8.800827719	7.380045422	8.690142021	8.448219577	8.866875822	7.741478382	8.504286623	8.937714939	8.67733004	8.366622073
ACAD9	8.455943545	7.861618384	9.125586527	8.40653628	8.40653628	8.40653628	8.40653628	8.40653628	8.40653628	8.40653628	8.40653628	8.40653628	8.40653628	8.40653628	8.40653628	8.40653628	8.40653628	8.40653628
NFKL1	8.689160658	9.465490002	8.63779497	9.445672647	8.116456303	8.780092441	8.510539127	8.510539127	8.510539127	8.510539127	8.510539127	8.510539127	8.510539127	8.510539127	8.510539127	8.510539127	8.510539127	8.510539127
NDUFA1	8.889792519	9.168883838	8.697051491	8.638017579	8.773610502	8.55248373	7.901858106	8.645453992	8.572105601	8.205650992	8.581558186	8.646517906	8.55259835	7.68400476	8.780463036	8.917593044	8.394852983	8.681403959
FAM126A	8.62174857	8.061769077	9.047035107	8.848331759	9.042615199	8.632496982	8.490029768	8.223155567	8.581558186	8.646517906	8.55259835	7.68400476	8.780463036	8.917593044	8.394852983	8.681403959		
WIF5	7.977526537	9.173481072	9.046999745	8.419495462	9.03964975	8.588184812	9.12954407	8.677536343	8.905512364	8.60290215	8.654208564	8.196530391	9.147872443	8.622816418	8.619859187	8.354121258	8.43247912	9.474827354
HPF2	8.598098199	9.117605954	8.833127464	8.51442522	8.561756973	8.584538688	8.745893634	8.003945822	8.003945822	8.003945822	8.003945822	8.003945822	8.003945822	8.003945822	8.003945822	8.003945822	8.003945822	8.003945822
TMEM94	8.861912936	8.579340717	9.267766035	8.542400397	8.738170891	8.364434466	8.019687874	8.70753193	8.671893172	8.245042132	8.86982461	8.517681247	8.831834167	8.577023139	8.824874131	8.656136587	8.251802715	8.861912936
TEP1	7.030472952	9.08612422	9.043032073	8.0612422	8.424065112	8.36260361	8.372480430	8.758259854	8.694333379	8.89715247	9.002909116	9.427067399	8.7002265	8.579280899	8.414083599	8.707860168	8.237923653	
KIAA1429	8.639559135	9.253490368	8.785428586	8.235325202	8.97549742	8.506178689	8.573622766	8.788302857	8.68766255	8.428222804	8.725179161	8.63307244	9.727018943	8.799241503	8.22844593	8.949534405	8.650097435	8.790295669
B3GAT3	8.829071059	8.61232428	8.907501957	8.58821	8.231514424	8.457170747	8.676262993	8.65459398	8.726142801	8.787510718	8.080406121	8.58562198	9.308750315	8.805762715	8.265008725	8.859126175	8.849091303	
PCNK1	8.334725907	8.656368004	8.359660162	8.359660162	8.722752384	7.658838768	8.137940622	9.307470398	8.616675151	8.753731243	8.714257473	7.465859334	7.97116225	8.94528454	8.991694788	8.998318279	8.88162208	8.12732771
TMOC7	9.292762315	8.865012354	8.700939582	8.993927718	8.59984976	8.59984976	8.59984976	8.59984976	8.59984976	8.59984976	8.59984976	8.59984976	8.59984976	8.59984976	8.59984976	8.59984976	8.59984976	8.59984976
SBNO1	8.826508524	7.847045089	9.02633253	8.06060422	8.077275648	8.588681854	8.961324894	9.013813549	8.759056228	8.96125563	9.416639603	8.156414603	8.12782165	8.680244577	9.07493285	8.529691233	8.552418807	
KCNQ1	8.987413491	9.291103398	7.988178886	8.649938093	9.166716449	9.178100044	7.748709105	8.353158475	9.118601025	8.629036601	8.758480979	7.997636523	8.109144669	8.85624081	8.47354742	8.639854352	8.440252007	8.938875085
KIAA1109	8.814538818	9.747029692	8.291257304	8.647006112	8.701763496	8.626488008	8.929662979	7.885518924	8.929662979	7.885518924	8.929662979	7.885518924	8.929662979	7.885518924	8.929662979	7.885518924	8.929662979	7.885518924
LNS14	8.149758686	8.032166073	8.623697252	8.691922265	8.648784825	8.648784825	8.335199128	8.289190228	9.335199128	8.289190228	9.335199128	8.289190228	9.335199128	8.289190228	9.335199128	8.289190228	9.335199128	8.289190228
NRP1	8.616313142	8.934306588	8.184405062	7.59237762	8.360037358	7.565761964	7.836076175	8.6905515	8.762314947	8.617912234	8.725049988	8.75555619	8.604988189	8.526943786	9.03828086	9.152462135	8.649532822	8.798961665
ABCF2	8.915921078	8.457096211	8.081851231	9.367568792	9.384064075	9.639164199	8.073268771	7.794248605	8.512473739	8.174055452	8.91257502	8.142763319	8.251390355	8.647760134	8.67160134	8.516263888	8.704366658	
PCSK1	8.232570528	8.232570528	8.232570528	8.232570528	8.232570528	8.232570528	8.232570528	8.232570528	8.232570528	8.232570528	8.232570528	8.232570528	8.232570528	8.232570528	8.232570528	8.232570528	8.232570528	8.232570528
CNKSR1	8.681613992	8.681613992	8.681613992	8.681613992	8.681613992	8.681613992	8.681613992	8.681613992	8.681613992	8.681613992	8.681613992	8.681613992	8.681613992	8.681613992	8.681613992	8.681613992	8.681613992	8.681613992
FAM188A	7.79474423	8.314338802	6.228917554	8.752790632	9.165997369	9.08403397	8.538837723	8.852432358	8.69918877	8.46426991	8.613092563	9.09228183	8.646270519	8.135173507	8.849038249	9.24766478	8.586528819	8.51700876
HACD2	8.431630255	7.754874765	7.754874765	7.754874765	7.754874765	7.754874765	7.754874765	7.754874765	7.754874765	7.754874765	7.754874765	7.754874765	7.754874765	7.754874765	7.754874765	7.754874765	7.754874765	7.754874765
LYRM2	8.740840772	8.747400673	8.801526757	8.995487386	8.82525471	8.82525471	8.82525471	8.82525471	8.82525471	8.82525471	8.82525471	8.82525471	8.82525471	8.82525471	8.82525471	8.82525471	8.82525471	8.82525471
DNTP11	9.262064745	8.74101497	8.4649252	8.810823867	8.676785452	8.660910705	8.629426653	8.01862249	8.18450251	8.84270113	8.974271209	7.777656515	9.19540361	8.059485685	8.542539191	8.463239603	8.807136333	
URGP	8.894793561	8.634028092	7.939275151	9.008878983	8.888914172	7.597910037	8.286206995	8.284260822	8.661406488	8.773099073	7.972846425	8.591910128	8.747048521	8.624133558	8.402744375	8.645556593	8.697892056	8.417370651
CSHL	7.944060777	8.105804529	8.369302452	8.615414127	8.615414127	8.615414127	8.615414127	8.615414127	8.615414127	8.615414127	8.615414127	8.615414127	8.615414127	8.615414127	8.615414127	8.615414127	8.615414127	8.615414127
OSGP	8.278840662	8.954210207	9.481175628	8.954210207	7.601212978	8.86008981	8.954210207	8.954210207	8.954210207	8.954210207	8.954210207	8.954210207	8.954210207	8.954210207	8.954210207	8.954210207	8.954210207	8.954210207
TMEM38B	8.945827339	8.84550061	7.746386378	8.60709628	7.738453155	8.64740173	9.53805441	8.602757451	8.868289868	8.661147217	8.707627611	8.816028158	9.25982655	8.542035902	8.32740047	8.450963852	8.58475025	8.293160317
RORA	8.453833051	8.605107439	9.217619481	8.858533051	6.257132869	7.495947466	6.75232307	9.181074469	9.34100617	9.22121785	9.017146372	8.657858995	8.68644213	7.111120295	9.132928265	9.04119307	8.643695866	8.401238846
UGDH	8.312275319	9.603700868	8.546607366	8.623089664	8.622620575	8.372536692	8.267928012	8.629476556	9.258530207	8.984170432	8.717446837	8.222056248	8.994848041	8.39729505	8.474394121	8.879503398	8.809399393	8.710346055
MVNN	8.452526687	8.101888597	8.683982528	8.101888597	8.399027759	9.684884186	8.811692022	8.800189992	8.844212561	9.227160368	8.226783493	8.646406902	8.441747146	8.820051399	8.207651538	8.606014616		
BDT	8.997395863	8.61462849	8.584396424	8.38062545	8.20743896	9.037517347	8.338160565	9.033368659	8.73540572	8.691314224	8.64148453	7.956016202	9.214931003	9.504098541	8.63793814	8.421796446	8.800980809	8.839824211
TRIO	8.650957874	7.935642097	7.736799865	8.65787128	7.491129246	8.525462244	8.296523237	8.681741016	8.265830078	8.174695995	8.989566299	6.623921553	8.73925271	8.163173355	8.635646838			

Czorf88	8.20401421	8.220951069	8.562254395	7.642411984	8.962990924	8.26905268	9.376008554	8.93542146	8.9164686	8.87704566	8.802330497	8.434552417	8.356439728	8.563452943	8.656218486	8.025205867	8.366373776	8.686243602
ATG12	8.540730043	7.22402069	7.529497518	8.966426481	8.842175858	8.257330333	8.857932752	8.63150612	8.505686882	8.422795487	8.666360522	7.736142837	8.15512513	8.980904746	8.260425463	8.285289767	8.611955645	8.58151508
HIRP3	8.95991446	9.686710878	8.894790927	9.678610878	9.2078967	9.427328623	9.347787851	8.060113801	8.60755893	8.879358774	8.86001613	8.262977301	8.483240177	7.956467889	8.679023703	8.418185203	8.517399904	8.120131251
NELF8	9.167046022	9.04841536	9.383709737	8.160944685	9.053231039	8.797890968	8.588632292	8.130738457	8.507668425	8.974399863	8.357612467	9.158871739	8.97906619	8.810049639	8.027885652	8.536247119	8.435244862	8.349574139
PURA	8.56802566	8.711731354	8.911279843	7.786361948	8.580935058	8.558427952	8.786543935	8.796543807	8.98511807	8.78514807	8.751739432	8.064763181	8.063751714	8.244073917	8.750435237	8.750435237	8.123822489	8.320016468
PP1R16B	8.064786171	8.80776368	8.650876155	8.648319708	8.580261153	7.844499725	8.153749255	8.183078457	8.12445525	9.124854451	8.288277973	8.839333644	8.849655524	9.608849452	8.688451438	7.982300718	9.007213370	8.734705541
POD7	8.875421351	9.195520668	9.221571842	8.535224149	9.007878484	8.588416346	8.993155387	8.434357857	8.609176407	8.280241096	8.130693443	8.405623022	9.01565307	8.750803193	7.900390717	8.182145099	8.292819173	8.33828575
HS25T1	6.995754669	7.75576042	8.93673001	8.41905344	8.505934025	8.617637196	8.705210743	8.687779366	8.705210743	8.104587865	8.653907401	8.031520921	8.685301013	8.761843414	8.306052029	8.331930286	7.844492136	8.665273571
KAT6A	8.577398985	8.286994432	8.058973637	8.580447025	8.716153432	8.939113723	8.150961911	8.749453226	7.886211571	8.608839341	8.566764078	7.67001192	7.347038465	8.258283242	9.0210306	8.790057179	8.565290787	8.655337908
VMA21	8.837436756	8.08746423	8.08746423	9.248959082	8.08746423	8.479982323	8.578369211	8.942066409	8.578369211	8.942066409	8.566764078	7.67001192	7.347038465	8.258283242	9.0210306	8.790057179	8.565290787	8.655337908
ANAS21	8.476974834	8.57580989	8.57580989	8.878247548	8.542543804	8.109657847	8.636405883	8.612451132	8.591286248	8.852471132	8.281832345	7.684002614	8.194893918	7.649238962	8.143817722	8.560299509	8.413817722	8.564760074
USPL1	8.899714017	8.155599134	7.138751066	8.706120778	8.719952117	8.299531454	8.750191987	8.250986277	8.630294697	8.819071717	8.808936814	7.88749682	8.677610108	8.505558303	8.470052411	8.62844208	8.615721964	7.697460094
KRCC1	8.683687811	9.150270085	8.58738315	9.035397055	8.232812778	8.781511	8.7878679464	8.284048979	8.523440562	8.891957095	9.430171815	7.68521209	7.375341302	8.51173248	8.108728314	8.77314017		
TNRF513C	8.576550625	9.141865025	9.011357864	8.77238991	8.376717627	8.91456707	8.051440119	8.30355193	8.631474784	8.448277728	8.543618573	8.261678321	8.846207774	8.578728264	8.343683828	8.619423902	8.272959715	7.758231705
WAFS32	9.153852300	9.281943428	8.973211135	8.973211135	8.53987728	9.212145996	8.802800897	8.712229797	8.412159226	8.64985146	8.64985146	8.692850435	7.9364601	8.727454231	8.09229903	8.370027727	7.707827727	8.684819374
ASAP1	8.687953398	8.752694379	6.957364431	7.78237505	8.906555656	8.403974134	8.739119895	8.528307552	8.227578846	8.803390798	8.95123262	8.513129698	7.953675805	7.780480875	8.746922625	8.742276664	8.699425371	7.494183495
SLC22A31	8.540251864	8.520484116	8.75528427	8.468364136	8.973971474	9.133688625	8.807162017	8.845172007	8.97959339	7.900927084	7.777820555	9.571423859	9.520349595	7.673788527	8.726624811	8.579230345	7.552401419	
SH2D3C	9.28539733	9.012108233	9.684827747	8.938537008	8.556396126	8.845812112	8.277458506	8.15234399	9.269325298	8.555149227	7.971181128	8.62230014	8.618393968	8.988594124	7.624586647	8.671134252	8.161809176	8.25469036
COL9A	9.04369761	9.016511149	9.683295088	9.160137608	7.998793314	8.798736626	8.104461986	8.077644879	9.013295087	8.49939456	9.026996554	9.241193703	5.811223543	8.182668001	8.370432066	8.386120506	8.36323434	
ARRP1	8.772804969	8.204285932	8.78269989	8.645239676	7.739792055	8.678953202	8.415430975	8.487204005	8.61351126	8.28787898	8.248644068	9.050067658	9.241517073	8.486778922	8.385082309	8.301485638	8.78172178	
ICM7	9.384006978	7.829307707	8.929307707	8.132117779	8.95260979	7.910451111	8.019137674	8.448657722	8.666012153	8.557130087	8.036340763	9.129634876	9.113443601	8.634572972	8.560416695	8.899513737	7.91308203	8.54588902
MPS18C	8.528750914	8.28456123	8.61640931	8.64932044	8.588273942	9.146907008	8.666261322	8.109162516	8.301220605	8.876126106	8.37717664	8.710337802	9.93800535	8.300522547	8.646202759	8.449603426	8.391595985	8.62888977
MRLP27	8.570482838	8.131658288	8.420964095	8.843796417	8.89549773	8.706126104	8.632735208	8.382665739	8.608594922	8.169547494	8.36316084	8.897490549	8.853799884	8.534744738	8.132386696	8.39721204	8.295403916	8.546187991
GLRX3	8.89866941	8.736475216	8.260599236	9.04004572	8.956459152	9.000502855	9.148898962	8.570602716	8.697091747	8.34843804	8.393539104	8.399537467	7.569406234	8.048014076	8.282192853	8.480013956	8.541588005	9.031489056
PP2R2A	8.761231458	8.353016167	8.67935202	8.536065813	8.981967289	8.607692919	8.729313525	8.578374206	8.536065813	7.973937423	8.37717664	8.710337802	9.93800535	8.300522547	8.646202759	8.449603426	8.391595985	8.62888977
DCFA7	8.005753006	7.706140926	8.80785816	7.774071886	9.149511921	8.879623218	9.210580904	8.237054126	8.609614641	8.443358788	8.894520626	8.589226524	7.976439249	8.70239156	8.283592862	8.439718042	8.52373865	8.712554998
APOL2	8.136627675	8.753540057	8.675789997	8.33942074	8.545087568	8.91196228	8.964654634	8.624664374	8.77144497	9.04954056	8.368451365	8.315086997	7.623644616	8.049858712	8.706614487	8.405709318	9.064948486	8.309887838
ICM7	8.284006978	7.829307707	8.929307707	8.132117779	8.95260979	7.910451111	8.019137674	8.448657722	8.666012153	8.557130087	8.036340763	9.129634876	9.113443601	8.634572972	8.560416695	8.899513737	7.91308203	8.54588902
ITGE	8.605858696	9.09315056	8.6232616	8.30068381	8.97700863	8.730510086	8.173980584	8.41463731	8.37052602	8.21962801	8.441463731	8.37052602	8.8067621	8.6675427	7.99873845	8.23720606	8.200496620	8.59596529
GA3	8.647476869	8.136727106	9.071712568	9.10392622	8.428167123	8.592019613	7.228340345	6.618366811	8.231251827	8.47968924	8.89651465	8.582647411	8.159913453	7.073748547	8.735120136	8.528826048	8.38237048	8.586335559
FAM101B	8.822139787	8.8752011	8.922342073	8.564084749	8.19789454	8.939081791	8.316306065	8.67116204	8.57903113	8.016785808	8.677041104	8.272416365	8.350412812	8.039970667	8.54128811	8.039970667	7.979792623	
ELF2	8.98666215	8.297466116	8.000482733	9.055926892	8.600547259	7.577864242	8.768503301	8.811030283	8.550102837	8.357325832	8.305611891	8.037054049	8.86052166	8.367249707	8.016560628	8.822675403	8.342208885	8.307233583
RCHY1	8.20657145	8.994387868	8.477631725	8.592625685	8.234572666	9.362102263	8.635043177	8.440485787	8.570923162	8.963236694	7.951458148	8.529616476	8.539201324	8.611430583	8.406149785	8.53207885	8.122195192	
VEGF8	8.550193029	8.631578067	8.646659077	8.289842715	8.77040454	8.897481106	8.741882737	8.559246531	8.689813461	8.326108011	8.61247248	8.661992607	8.333752595	8.480082931	7.967592181	8.456208988	8.519102677	8.95466582
ICM7	8.284006978	7.829307707	8.929307707	8.132117779	8.95260979	7.910451111	8.019137674	8.448657722	8.666012153	8.557130087	8.036340763	9.129634876	9.113443601	8.634572972	8.560416695	8.899513737	7.91308203	8.54588902
EPB12L	9.059748231	8.968306259	8.535907308	8.725836618	8.896957043	7.919708337	8.985413423	8.539193283	8.323085098	8.479860355	8.504137613	9.341738839	9.20042369	8.193740247	8.348341448	8.481253238	8.552366839	8.592395848
CND3	9.50817307	9.380928394	9.063874764	8.760562198	8.179045127	8.819052248	8.824501566	8.523558573	8.523558573	8.591167093	8.720079394	8.08792263	9.193665304	8.869198174	8.421188964	8.09825154	8.713768094	
UBR7	8.552510101	8.659746302	9.027310561	8.911845543	8.570668727	7.396691499	8.750876645	8.736622062	8.590331845	8.367092344	8.696030226	8.376852418	8.553777049	8.513731399	8.148792931	8.375976776	8.274896119	8.089364125
DHRX5	9.344023502	8.93642872	8.940691751	8.721395278	8.540621657	8.556394679	8.798325182	8.549320517	8.549320517	8.549320517	8.549320517	8.549320517	8.549320517	8.549320517	8.549320517	8.549320517	8.549320517	8.549320517
GRPE11	9.033993461	8.173945664	9.318997413	8.683904071	8.563503124	9.520939218	8.809403312	8.448042727	8.948546971	8.317010798	8.492457265	9.0541711	8.30585482	7.8299672	8.664119181	8.002807888	8.066778638	8.541100425
GAPB	8.645140612	8.039396668	8.56571106	8.388098397	9.203803694	7.706796313	8.487481614	8.356088012	8.65688012	9.020515203	8.547982127	7.646774225	7.396424665	8.02319048	9.141387768	8.28126884	8.171329966	
ICM7	8.284006978	7.829307707	8.929307707	8.132117779	8.95260979	7.910451111	8.019137674	8.448657722	8.666012153	8.557130087	8.036340763	9.129634876	9.113443601	8.634572972	8.56			

DHRS1	8.801990202	9.046715175	8.479389752	8.675460355	8.550674088	8.762074713	7.979276358	8.647817655	8.495717855	8.531181204	8.382437216	8.518718556	8.205775681	8.301367629	8.487421236	8.647440654	8.409034427	8.767019762
OSBP10	8.892001609	8.799983968	8.589116079	8.460438066	8.946594520	7.934806246	7.780570305	8.460439888	8.636041978	8.861026265	8.655463785	7.585756181	8.903298344	8.680846485	8.238509806	8.679458545	8.296884567	8.248082107
TV2P3C	8.167551145	8.18422877	8.839493497	8.215378654	8.565299822	8.766014166	8.667350787	8.484199875	8.050568006	8.659169993	8.762157521	8.382342578	8.247897562	8.931003689	8.532894051	8.328945055	8.668709699	8.378454583
SEDT3	9.353225651	8.014180412	9.140599101	8.905851421	8.703337092	8.472254955	8.512023841	8.211327927	8.695397488	8.487671024	8.805610529	8.275182084	8.538718461	8.22176218	7.988537781	8.631117179	8.980938449	8.809038489
EHK1	7.631897694	8.215786593	8.08636174	8.053048099	8.144970763	7.948943317	8.539282585	8.057282565	8.001668655	8.089504041	7.80910839	8.683235415	7.929422625	8.019558051	8.50891206	8.361748912	8.641791463	8.375556367
PCD1	8.65289888	8.356812029	8.382367474	8.581067292	8.425062007	8.46473093	8.46473093	8.367365727	8.956806223	8.437660223	8.94429286	8.25762387	8.542463853	8.100870766	8.452557039	8.64123398	8.50510425	8.50510425
MRP52	8.757527773	8.787588799	7.44667474	8.53879251	8.508262249	8.69114742	8.772729044	7.989170702	8.307357298	8.100412834	8.400417729	8.600005703	8.844141983	8.143074702	8.08634613	8.124537732	8.190306161	8.732097099
WRD5	8.686289469	7.929911155	8.78694987	8.786286497	8.905212743	8.980521743	8.440534796	8.440534796	8.797321564	8.429414307	8.233716945	8.568827592	8.142512758	8.764136502	8.476601573	8.322209247	8.136553152	8.185880009
ANAP4C	8.250346078	9.030657918	9.152408866	7.062363172	9.56308993	8.820259798	8.490410755	8.147779925	8.481406472	8.514034643	8.484031302	8.431620803	8.788159104	9.35591398	8.700268853	8.624756509	8.425143933	8.503486743
CWC22	9.388459549	9.015752782	7.264712344	8.612316679	9.230118773	8.459224899	9.663199353	8.44346734	8.578390978	8.243140686	8.565958724	8.397313859	9.071244822	8.959058802	8.127977584	8.478674393	8.821280853	8.282280853
ANGEL2	8.485365646	7.800194275	8.25656746	8.853015683	7.399830213	8.547382743	8.718165343	8.484299336	8.25546442	8.78445719	8.05618856	7.77767678	8.126793083	8.973218279	8.494430943	8.580297245	8.700527245	8.700527245
CMAS	8.60246648	8.202238862	7.441451644	8.099151103	8.895737607	8.573133102	8.420934094	8.526918528	8.074260522	8.363949589	8.537144241	8.627194066	8.077746778	8.153919588	7.900448801	8.504292574	8.966318131	8.966318131
SPTAN1	8.721932575	8.300738394	8.233019742	8.233019742	8.233019742	8.329417747	8.501150841	9.343676928	7.936560136	8.086028513	8.219535557	8.409107063	8.112643526	8.370988902	9.003210926	8.977664629	8.30119828	8.30119828
FANGC	8.551340483	7.229420037	8.743373929	8.340273239	7.689349706	8.710431628	8.056293815	8.712969041	7.72807886	8.756115534	8.228512509	8.486361434	8.22057078	8.325031883	8.25407641	8.671226021	8.409420314	8.756038579
DR1	9.15602443	8.105097741	8.505772471	8.80173988	8.854656029	8.627043435	8.451023404	8.627043435	8.145103232	8.456151118	8.374739522	8.607285409	7.846655662	8.25364399	8.577164681	8.853279391	8.808585532	8.808585532
CLN3	9.1719409	8.104306287	8.304627393	8.297612191	8.142933572	8.301297331	9.361079823	8.918491488	8.2472919	8.291232322	8.456151118	8.374739522	8.607285409	7.846655662	8.25364399	8.577164681	8.853279391	8.808585532
DRG2	8.732603268	8.096435472	7.898145252	8.689649833	9.020260088	8.430364008	8.430364008	8.415849553	8.608740606	8.366527177	8.52109502	9.040360562	8.623937068	8.627431141	8.281019162	8.535429184	8.579650224	8.503202284
GRAMD1A	8.563924499	9.020762214	8.359870575	8.628152968	8.237023268	8.870977854	8.430715069	8.616636686	8.668174805	8.522051393	8.56815437	8.350939231	8.852759367	8.824201507	8.351353576	8.50914393	8.48711461	8.363898989
RRB5	8.30810183	7.835764773	9.051118065	8.556678816	7.765847106	8.816930394	8.105109872	8.585310509	8.278156574	8.720740239	8.473483947	8.633103442	9.634618842	8.338103663	8.795690039	8.356071966	8.360623001	8.360623001
CD2C2A	9.531465653	8.896468974	8.687196146	8.629689992	8.737294012	8.685596755	8.105109872	8.352914862	8.37125762	8.487260289	8.196585159	8.688727711	7.799422028	8.493764076	8.038810059	8.547368364	8.118375355	8.404140216
DRAN1	7.937513088	8.359634004	8.400698701	8.522575052	9.107025207	8.669033889	8.669033889	8.285934466	8.087643455	8.898194283	8.197788189	8.205168116	8.130554002	8.974394008	8.755743543	9.010716847	8.077868636	8.077868636
MAP3K11	8.375516137	8.440265663	7.755376014	8.442455781	8.17050135	8.925523403	8.888556515	8.504483606	8.44832573	8.552548498	8.719655023	8.519962893	8.678234884	8.600175838	8.50779174	8.345251255	8.639230799	8.639230799
VP57A	8.198194415	9.543191945	8.369412607	8.188994317	8.645510661	8.340170604	8.488768675	8.106689490	8.706823267	8.549007681	8.470673548	8.593665046	9.6351548	8.26151135	8.807867032	8.538470039	8.112421402	8.103384004
DPM3	8.045976471	8.638882442	8.253953419	8.413647652	9.131016893	8.659932813	8.148482482	8.71093281	8.148482482	8.564947234	8.338200997	8.922173737	8.531529568	8.356754427	8.365664496	8.572709159	8.488041333	8.488041333
ICE1	8.389140282	8.308246625	8.400302382	8.389849600	9.030672101	9.01914342	8.099993672	8.970292176	7.98929106	8.815953251	7.484877848	8.635408263	8.244969084	7.070894372	8.194809049	8.669516049	8.634955437	8.184541606
TSWG1	8.466941053	8.322663636	9.488925471	8.730718559	8.750452355	8.552926618	8.463133487	8.312177053	8.815746897	8.850952308	9.274719166	8.57034507	7.75964826	8.470890333	7.965823975	8.866919079	8.436754407	8.40676698
ELMSAN1	8.619012003	8.724382034	9.084496614	8.720218724	8.595577222	8.25840907	7.912298619	8.808287295	8.698254252	8.538630848	8.961158687	8.256273391	8.039986151	8.038111555	8.229710509	8.443236036	8.401934698	8.016570931
WRAP3	8.193498012	8.464660974	8.764396157	8.368309594	8.246333216	8.35256565	8.945378222	8.281737553	8.281737553	8.664692157	8.664692157	8.069502079	8.832785411	8.772449914	8.504537395	8.530123285	8.345966614	8.68775132
MPPE1	8.748094712	8.379997299	7.286950733	8.655913898	8.08986012	8.56846773	8.358981375	8.521903177	8.544690929	8.502401269	8.366515639	8.463117652	8.556448957	8.515240602	8.730951468	8.382180439	8.495213927	8.526482805
CUL2	7.770474664	8.874484824	8.73660555	8.399332425	8.775078107	8.963994435	8.605650966	8.211570414	8.63236849	8.450846927	8.583394665	8.451783075	8.756250744	8.565158427	8.305518202	8.234139367	8.381789197	8.381789197
AEBP2	8.92273466	7.842833363	8.108823039	9.042127835	8.263142612	8.678462815	9.005716549	8.081161182	8.61019111	8.406467903	8.256586232	8.262993112	8.879378136	8.793147681	8.07304736	6.99233416	8.619219015	8.38873744
PHACTRA	8.992923988	8.598760913	7.349717809	8.280357847	8.455000414	8.269167896	8.157480311	8.629330864	8.574939615	8.546981232	8.656573715	8.419370885	7.264652456	8.497822475	8.673725542	8.430535248	8.172049816	8.172049816
BRP3	8.157094161	9.049052862	8.513479701	8.649308337	7.862518979	8.538847563	8.767006767	8.594164882	8.501595558	8.387479257	8.816852798	8.356043804	7.206991004	7.840719637	8.638433469	8.719306374	8.867373763	8.183379764
LDH	9.13172484	8.620193551	8.620193551	8.620193551	8.620193551	8.620193551	8.620193551	8.620193551	8.620193551	8.620193551	8.620193551	8.620193551	8.620193551	8.620193551	8.620193551	8.620193551	8.620193551	8.620193551
BAZ1A	7.648590267	7.648590267	7.648590267	7.648590267	7.648590267	7.648590267	7.648590267	7.648590267	7.648590267	7.648590267	7.648590267	7.648590267	7.648590267	7.648590267	7.648590267	7.648590267	7.648590267	7.648590267
ACS	8.504729552	9.050737684	8.496807009	8.119879707	8.091203627	8.438240671	9.112872568	8.767839012	8.179148303	8.94046522	8.256813934	8.08238184	8.389032428	8.301753888	8.666850146	8.507357678	8.211700156	8.981614899
PACS2	9.106371955	8.870413693	8.870413693	8.870413693	8.870413693	8.870413693	8.870413693	8.870413693	8.870413693	8.870413693	8.870413693	8.870413693	8.870413693	8.870413693	8.870413693	8.870413693	8.870413693	8.870413693
SKVZ1	8.479731429	8.100400388	8.355746593	8.580842564	8.469159606	8.296563744	8.816286432	8.119737812	8.529961122	8.224481383	8.742364195	8.717250396	8.929728291	8.811971211	8.436404105	8.664188241	8.030813153	8.030813153
DCAF6	7.947674728	9.356254245	8.926187614	8.280357847	8.455000414	8.269167896	8.157480311	8.629330864	8.574939615	8.546981232	8.656573715	8.419370885	7.264652456	8.497822475	8.673725542	8.430535248	8.172049816	8.172049816
CNOT4	8.411601114	9.261972526	7.156166376	8.244800144	8.594460658	7.784362354	9.11531412	8.660388989	8.509605701	8.831778985	8.260352954	9.07329054	7.360272973	8.730723793	8.649163192	8.794049698	8.413976589	8.649163192
VAMP7	8.439030182	9.221908864	9.221908864	9.221908864	9.221908864	9.221908864	9.221908864	9.221908864	9.221908864	9.221908864	9.221908864	9.221908864	9.221908864	9.221908864	9.221908864	9.221908864	9.221908864	9.221908864
NR3C1	8.246332085	8.067412966	8.067412966	8.067412966														

CDK7	9.16701289	8.13412621	8.750576007	8.591278434	8.692843039	8.717847221	8.795604553	7.706335014	8.480484705	7.79126215	8.7820587012	8.480392747	9.539036878	7.223716399	8.283435033	7.809954046	7.939815682	8.4067009
NP18A	8.598360244	7.502252431	8.601315768	8.362123217	7.977349176	7.594006628	8.262362741	8.660971297	8.181666302	9.444573718	8.148953418	8.047000666	8.05093206	8.634667397	9.037688257	8.957425209	9.6019962	8.61792085
ZBT87A	9.193429467	9.043625926	9.043625926	8.344611298	8.814829271	8.39555823	8.782786099	8.2999825	8.687434297	8.549318518	8.70864442	7.536903266	9.79659723	9.007188065	8.294751102	8.501011786	7.974936345	8.10275741
OVCA2	8.765835445	8.796025209	8.530411396	8.384140263	8.76161979	8.783759323	8.310869371	8.464079136	8.494647294	8.494647294	8.47952527	8.85248661	8.03807421	8.43313483	8.388936131	8.568500304	8.181446664	8.27795815
EMC3	8.506809654	8.548637864	8.658801861	8.658801861	8.704862939	8.340296629	8.340296629	8.340296629	8.340296629	8.340296629	8.456801861	8.523366629	8.539828744	8.539828744	8.509730739	8.353997583	8.50677036	8.50677036
LCMT1	8.823836119	8.71127078	8.902877048	8.45859982	8.72378414	8.72378414	8.72378414	8.72378414	8.72378414	8.72378414	8.680647073	8.75181977	8.84092179	7.72049323	8.151309491	8.35957694	8.73332567	8.45345669
MED22	8.724093934	8.37108285	8.543321253	8.02763403	7.91893177	8.08202435	8.645529744	8.108817986	8.719233674	8.55757805	8.45959223	8.223434052	8.52884307	8.802376946	8.502749684	8.2172747	8.232850616	8.105156206
ASL	8.782327683	9.325434	8.46327683	8.925434	8.025938192	8.250938192	8.025938192	8.025938192	8.025938192	8.025938192	8.46189285	8.219514484	8.497399706	8.153832087	8.513686157	8.123252704	8.303581383	8.025938192
SESN2	8.12360117	9.288681929	8.881733847	8.957967242	8.665021174	8.861093092	8.01815559	7.56993356	8.442981285	7.798452673	9.032309867	8.190681884	8.48918585	8.745391124	7.98320844	8.46744014	7.9344575	8.743130058
PP1R35	9.071761525	8.148833218	8.148833218	8.77015488	8.04787228	8.565925355	8.65925355	8.04787228	8.04787228	8.04787228	8.03211816	8.514700554	9.141671835	9.220050433	8.382592286	8.433113957	8.38681844	8.300830018
PKRA62	8.328018447	8.519274048	8.519274048	8.956306691	8.605933093	8.01032493	8.854267684	8.641788985	8.35635696	8.179248661	7.707421502	8.301036424	8.596620704	8.448902704	8.19543929	8.441739305	8.60012877	8.743011482
RECLD	8.285668687	7.975510733	7.984482691	8.956806205	8.956806205	8.028749662	7.917238451	8.172688081	8.727011106	8.593551655	8.510875303	8.911291867	8.81951432	9.437534654	8.364480806	8.705064789	8.44174925	8.96416488
RP11.343C2	8.703094165	9.134037884	9.000653028	8.73725369	8.47515883	8.932843551	8.29354678	8.334091547	8.29354678	8.29354678	8.276550288	8.660348627	8.566078277	9.04084747	8.22994667	8.12571223	8.03652535	8.24971627
ATP10D	7.551356724	8.76917439	8.11043111	8.962652234	8.806614658	8.440485871	8.238863968	8.84549062	8.510912136	8.308430668	8.04217764	7.959578842	7.443340056	8.780412049	9.077944418	8.65681519	8.218685759	8.218685759
P1TFM1	8.31426324	6.309128279	8.61418209	8.08744528	8.400878478	8.57420516	8.62312161	8.459444583	8.86289464	8.899507741	8.134540004	8.40432901	8.123792839	8.834863005	8.318923509	8.800328916	8.489255683	8.489255683
GMPS	8.450832325	6.007521409	8.84466955	8.948667251	7.50952114	9.004171843	8.994870684	8.496747261	9.333609304	8.320461234	8.55354587	8.662386841	8.064217559	7.86372628	8.337551193	8.808282853	7.858910884	8.68489323
E1FAD	8.425749543	8.16510857	8.864517429	8.861868605	8.331190282	8.435058735	8.580242155	8.57045521	8.269898256	8.526538525	8.142950493	9.252257126	8.41255121	8.623056567	8.491604275	8.21609684	8.456566622	8.456566622
ATP8A	6.653253792	7.16194227	7.078106516	8.52719808	7.995788396	9.017764447	7.981848005	8.210641373	8.636615664	8.420659553	8.715919109	8.317308653	8.985608082	8.273180934	8.848313862	8.798525133	8.605038021	8.605038021
GNB3	8.905834971	9.05218436	7.718132608	8.96732353	8.446515165	8.591343169	8.85666943	8.497028946	8.803508512	8.381246739	8.396827157	8.70542772	8.047699304	8.856019827	8.369884902	8.10125347	8.1284173	8.1284173
CDG	9.087942914	8.52581353	7.756232261	8.514568316	8.468289458	8.026212616	8.60798833	8.216172817	8.74337816	8.351618724	7.98546008	8.627932235	8.866889848	8.98217484	8.988382026	8.65716214	8.391585305	8.1269453
SLCS3A	8.354649994	9.129319475	8.076545088	8.75615217	8.809894165	7.985387315	8.444352681	8.444352681	8.444352681	8.444352681	8.077166471	8.031210488	7.107777329	8.951055469	8.432594372	8.641105027	8.016503123	8.016503123
GPATH2L	8.053979864	6.364880509	7.93389505	9.38584742	8.287731469	8.49122976	8.06222844	8.127089198	8.043736559	8.59389705	8.74980533	8.803975393	8.112327727	8.52086048	8.420810023	8.86895215	8.86895215	8.86895215
DIAPH1	8.564318826	8.872166239	8.21006091	8.075891034	8.307488832	8.45794617	8.701501952	8.751463492	8.284135923	8.400998903	8.291472912	8.770553027	8.372440949	8.095096145	8.598324276	8.483079431	8.42029224	8.542769318
ADH15A	8.241534921	8.353498761	8.134569137	8.134569137	8.32886898	8.920118423	8.32886898	8.920118423	8.920118423	8.920118423	8.697584734	8.398718642	8.10212141	8.546450646	8.519285978	8.10788361	8.400153613	8.093506280
LRBA	8.128405853	8.298705486	8.092885853	7.102749135	8.739945173	8.358576795	8.375473697	8.580046663	8.431156034	8.531607454	8.620506984	7.710579413	8.402897351	8.811216039	8.15943137	8.379093268	8.595468856	8.572647178
RRM18	8.413019306	8.849813038	8.348242177	8.20429333	8.780278122	8.659593925	8.758914769	8.148698667	8.12803393	8.26130315	8.226450912	8.999314912	8.466438665	8.830648406	8.47113094	8.25734806	8.685453923	8.570887078
NPA1	8.822657442	8.50154045	8.225950638	8.342038903	8.23303675	8.324149296	8.500466312	8.235211118	8.436552327	8.533874975	9.127605057	7.741612935	10.09847239	6.71523236	8.50066393	8.75451228	8.12733817	9.240993284
EMC2	8.205901655	8.364098852	8.59013216	8.75901171	8.904619568	8.444619568	8.444619568	8.444619568	8.444619568	8.444619568	8.57901171	8.904619568	8.50247375	9.141003316	8.59145446	8.141003316	8.59145446	8.59145446
PIA3	8.934505966	8.293917162	8.5068938	8.34076698	8.505296859	7.94938652	8.551927706	8.248051333	8.554611177	8.327874975	8.938701587	8.240410193	8.899244602	8.910732039	8.800563736	8.80954379	8.72766262	8.989898629
GSTM4	8.451105292	8.824911087	9.247373083	8.342903263	8.360544481	8.51843841	8.738270122	8.662881726	8.326826819	8.298114218	8.272333784	8.156166938	7.724129482	8.724642937	8.749045833	8.482285102	8.530042068	8.133039446
MTHF5	8.722815586	8.527335946	8.648367662	8.527335946	8.449716282	8.13295842	8.483432421	8.616285112	8.51178531	8.1494744	8.235269477	9.306774196	8.658436932	7.60330212	7.758394542	8.014410694	8.107595465	8.107595465
DDX55	8.954136197	8.8685546	8.584975207	7.927933522	8.971946654	8.865143065	7.680406965	8.366933714	8.234721656	8.026390881	8.450309218	8.646856742	9.325555882	8.428459922	8.482420921	8.315862807	8.180051163	8.081266371
KANS12	8.594594755	8.601516907	8.65147848	8.279812027	8.493574851	8.870173482	8.108747644	8.344258654	8.408774644	8.41889173	8.34454114	8.671256118	8.583411002	8.331163019	8.547549946	8.25887155	8.371210813	8.49701113
STX10	8.611637042	9.259159704	7.795891851	8.493585244	8.189497273	8.694795927	8.618599061	8.484979144	8.445970275	8.415688274	8.313649097	8.807910813	9.361029665	8.887299964	8.275711607	8.360650357	8.217590248	8.15247463
TE2	8.76011976	8.02840262	7.792737848	9.106509295	7.291297348	8.953079593	8.097765335	8.438990507	8.300136023	8.355996602	8.70308279	8.28494077	8.46345741	7.54903949	8.372080548	8.45716354	8.228555439	8.320670236
GLOD4	8.427478212	8.389348782	8.80241264	8.80241264	8.80241264	8.80241264	8.80241264	8.80241264	8.80241264	8.80241264	8.175094987	8.15548628	8.970828014	8.403302541	8.403302541	8.46266399	8.84266399	8.84266399
GATC	8.402107109	7.228210981	8.306297018	8.78338989	7.583107024	8.91657398	8.140770788	8.172501111	8.654016584	8.97631034	8.5996047	8.185404072	8.495678895	8.238575762	8.434031875	8.929092827	8.621503542	8.602390146
STOM	8.462213235	9.70498615	9.602966862	8.80255231	8.401159224	8.411292532	8.05774223	8.411292532	8.05774223	8.05774223	8.472071769	8.517531696	7.943594016	8.291626475	8.420054335	8.628290678	8.236891328	8.19336808
TMEM57	8.69096606	8.774042085	8.426685752	8.893133585	8.496771658	8.906287403	8.586987881	8.378188891	8.204149508	8.301906457	8.432612864	8.49783332	8.874089567	8.920484949	8.267559351	8.569056244	8.235600195	8.034009807
GSAP	8.442841852	8.652483578	7.777302129	8.652483578	8.187325785	8.371734117	8.136846997	8.48546664	8.861243727	7.94010157	8.404827585	8.536564285	8.486773515	8.331238126	8.623098812	8.831300702	8.648526694	8.648526694
GART	8.779768302	9.06486587	8.486980989	8.15411535	9.41517977	7.925588257	8.10866493	8.32754235	8.484997891	8.442511126	8.65473462	7.78112236	7.611091953	8.139154274	8.478507015	8.497978651	8.706894206	8.503758494
LDNR1F	8.456606082	8.758971356	8.613469394	8.613469394	7.255301727	8.30793188	8.470168217	8.30575136	8.4818790162	7.93001196	8.277784812	8.886155689	8.645087442					

SLCA42	8.87754626	7.27000813	8.917668252	7.47546854	7.82612726	8.74981528	8.460660564	9.07380257	8.42824895	8.50998969	8.57635083	8.046122494	8.128380299	7.739207525	8.60154796	8.180778859	8.66471735	8.32674748
XRCC4	8.854027813	8.9852182	8.827210462	8.80452003	8.938235969	8.645585771	7.96642192	8.11049733	8.646129366	8.098682562	8.598584413	8.773962159	8.541530339	7.604935707	7.984164971	8.163644164	8.072556305	8.342642357
FAM193B	8.313956033	8.651248674		8.449516537	8.677912752	7.260108488	9.014279336	6.658920324	8.216138624	8.436822668	8.482219934	8.42657675	8.286790387	8.796249801	8.785273129	8.310934264	8.880589413	8.829272139
TMEM126B	8.66036537	8.577006145	8.43290977	8.636261824	9.180482575	8.475183224	8.279863866	8.099898464	8.768552432	8.293427637	8.310356873	8.656818055	8.746176486	8.367035208	8.101796148	8.452599531	8.612634917	8.384065968
TOP2A	8.47065237	8.46449876	8.321451493	8.421451493	8.421451493	8.421451493	8.421451493	8.421451493	8.421451493	8.421451493	8.421451493	8.421451493	8.421451493	8.421451493	8.421451493	8.421451493	8.421451493	8.421451493
SERTAD1	8.325124406	8.2948857	8.309817607	8.309817607	8.309817607	8.309817607	8.309817607	8.309817607	8.309817607	8.309817607	8.309817607	8.309817607	8.309817607	8.309817607	8.309817607	8.309817607	8.309817607	8.309817607
ANKK1	8.71435047	7.748372006	8.618060029	8.311557788	8.572316518	8.466194854	8.366782479	5.78618494	8.433308363	6.698437933	8.20268755	8.175198913	7.721807581	7.942059435	6.718033221	8.183704106	8.643290616	8.051066467
FAM155A	8.800927858	8.965214164	8.790698632	8.965214164	8.790698632	8.965214164	8.790698632	8.965214164	8.790698632	8.965214164	8.790698632	8.965214164	8.790698632	8.965214164	8.790698632	8.965214164	8.790698632	8.965214164
SIPALL1	8.547156824	8.128361972	6.984056705	8.517807659	7.75778764	8.070389556	9.05876903	8.158879273	8.32505402	8.825538822	8.47077884	8.444652218	8.890732375	7.487407372	8.480050986	8.438991852	8.519072428	8.591740672
TKFC	8.372075295	8.386035857	8.098898203	8.372075295	8.386035857	8.098898203	8.372075295	8.386035857	8.098898203	8.372075295	8.386035857	8.098898203	8.372075295	8.386035857	8.098898203	8.372075295	8.386035857	8.098898203
TTM131	8.732064575	8.47064876	8.32072392	8.47064876	8.32072392	8.47064876	8.32072392	8.47064876	8.32072392	8.47064876	8.32072392	8.47064876	8.32072392	8.47064876	8.32072392	8.47064876	8.32072392	8.47064876
PF15KA	8.87625527	7.953106559	8.227901408	8.454070684	8.621223932	8.236261247	8.177484804	8.621081302	8.300823435	8.544003027	8.38049378	8.58592694	9.194701844	7.329589098	8.87683725	8.707280797	8.478520064	8.87149882
WRN121	8.87223097	8.27378903	8.735631133	8.76356844	9.295972301	8.46381315	8.10309892	8.137921038	8.41727444	8.73147723	8.714441923	8.57465221	8.31959132	8.739468949	8.12002994	8.215681087		
CF1	8.02926414	7.901755911	8.46079464	8.29992432	8.583558515	8.239258406	8.51940867	8.564485518	7.89178756	8.450970618	8.242295887	8.677108769	8.073558905	8.324715407	8.541329325	8.382021758	8.499890342	8.602385142
MFT2	8.996319963	8.800804872	8.600804872	8.79512274	8.797528948	8.284277202	8.87715563	8.39288015	8.48747479	8.687794252	6.636775924	8.153181487	8.01539189	8.045472215	8.211160816	8.422811264		
MUS81	8.642142463	8.034340716	8.905508738	8.341468288	8.35132173	7.901665612	8.514359717	8.536976615	8.364737713	8.638662361	8.194590873	8.339175382	8.648558975	8.80906021	8.737025589	8.289733717	8.600469317	8.347149748
LTV1	8.52697497	8.779673544	8.908417885	8.035825953	8.429326665	9.723499937	8.604828019	8.409614492	8.08964492	8.08964492	8.150173481	8.300220362	9.430497691	8.2722721535	8.446266859	8.251002992	8.103363678	8.581692452
ZNF32	8.891412929	8.519209756	8.295697038	8.467181231	8.407830385	8.960793716	7.976273112	8.615182215	8.039823281	8.494050661	8.545871679	9.06070389	8.11083636	7.887949428	8.179029491	8.152869112	7.736122262	
CAMK2C	8.59691592	7.622132334	7.74725858	7.887947782	8.032099687	8.3748969	8.416232816	8.671906887	8.213466483	8.256575759	8.543410538	8.976016457	8.717937349	7.407910831	8.611982287	8.451814639	8.494428242	8.308111111
ZBTB17	8.571165549	8.62600801	8.62600801	8.571165549	8.62600801	8.571165549	8.62600801	8.571165549	8.62600801	8.571165549	8.62600801	8.571165549	8.62600801	8.571165549	8.62600801	8.571165549	8.62600801	8.571165549
VCPK1	7.532923272	8.426923272		8.627851126	8.48017957	8.635686516	8.487143711	8.208913755	8.188888452	8.445937449	8.483589004	8.782959809	7.146514546	8.279642379	8.184611598	9.144285535	8.351536668	8.356516183
COYL	8.774811954	7.766838616	8.29594474	8.774811954	7.766838616	8.29594474	8.774811954	7.766838616	8.29594474	8.774811954	7.766838616	8.29594474	8.774811954	7.766838616	8.29594474	8.774811954	7.766838616	8.29594474
BAG4	8.111068014	8.67568403	8.282782957	7.488986617	8.185886966	8.013874606	8.141183669	8.99709132	8.622299026	8.223150165	8.417928339	8.853727684	7.536343708	8.170611118	8.660697186	9.045754461	8.544644016	9.4168671
PLEKH7A	8.077310564	8.669491256	8.077336138	8.669491256	8.077336138	8.669491256	8.077336138	8.669491256	8.077336138	8.669491256	8.077336138	8.669491256	8.077336138	8.669491256	8.077336138	8.669491256	8.077336138	8.669491256
MED13	7.759706554	7.150646791	6.644832114	7.610549734	8.047407934	8.265597133	8.256819322	8.739101404	8.721582629	8.58803524	8.682890378	8.680938363	7.777894917	8.573043105	8.094663719	8.316576186	8.83811065	8.589382037
PPP1R2	8.626400947	8.496476785	8.392877586	8.311519491	9.268366597	8.139628158	8.598827121	8.76786118	8.588079746	8.159755538	8.544844415	8.033743144	7.65276464	8.054520397	8.202855894	8.390713035	7.983792512	
RASSF7	8.294065445	8.193498349	8.46644232	8.61484221	8.403041063	8.516779469	9.465338991	8.126667975	8.196216491	8.18577465	8.67297266	8.763188143	8.31584286	9.122114499	8.917057306	8.038652554	8.218431375	8.33288883
NDK1	8.942075007	7.295192793	8.125189061	8.295192793	8.125189061	8.295192793	8.125189061	8.295192793	8.125189061	8.295192793	8.125189061	8.295192793	8.125189061	8.295192793	8.125189061	8.295192793	8.125189061	8.295192793
ClSorF3B-AP	8.942075007	8.942075007	8.942075007	8.942075007	8.942075007	8.942075007	8.942075007	8.942075007	8.942075007	8.942075007	8.942075007	8.942075007	8.942075007	8.942075007	8.942075007	8.942075007	8.942075007	8.942075007
IFIT2	8.095705011	8.409629044	8.495258331	9.006303101	8.16716395	8.6808633	8.345085266	6.647668976	8.341605449	8.241399849	8.727743697	8.907933094	7.125275249	8.789888844	8.55605182	8.085933528	8.459188297	8.470890562
NFZ	7.906284522	6.783977068	8.270984876	8.270984876	8.03616699	8.193524859	8.999823721	8.530062641	8.966893895	7.947830983	8.966830077	8.51908977	8.799000043	8.553149333	9.054839112	8.336966432	8.791681816	
NTF2	8.781668735	8.81203274	8.597504403	8.28282847	8.024605669	8.508887691	8.329815299	8.442372816	8.72794591	8.603655287	8.314242374	8.215160965	8.707858463	8.262793377	7.826178887	8.851633369	8.394279168	8.420168152
PDGK1	8.598512158	8.749618401	8.749618401	8.598512158	8.749618401	8.749618401	8.598512158	8.749618401	8.598512158	8.749618401	8.598512158	8.749618401	8.598512158	8.749618401	8.598512158	8.749618401	8.598512158	8.749618401
ZBTB2	7.598989824	7.337689828	9.184650148	8.317888724	9.275204719	9.191906007	8.344462787	8.28223094	9.141991069	8.540754645	8.648952875	8.377668872	6.215657144	8.940680797	8.374127444	8.858550336	7.337089194	8.485343352
NDK2	8.409487951	8.35633494	8.230609052	8.230609052	8.230609052	8.230609052	8.230609052	8.230609052	8.230609052	8.230609052	8.230609052	8.230609052	8.230609052	8.230609052	8.230609052	8.230609052	8.230609052	8.230609052
ZDHX3C	8.529757079	8.529757079	8.529757079	8.529757079	8.529757079	8.529757079	8.529757079	8.529757079	8.529757079	8.529757079	8.529757079	8.529757079	8.529757079	8.529757079	8.529757079	8.529757079	8.529757079	8.529757079
MITO1	7.718570213	8.300671887	8.56716148	8.19141863	8.867119966	8.349041643	8.418412627	8.425215151	8.063779497	8.278216599	7.886323529	9.033365054	8.596857766	7.85907735	8.105295944	8.261061115	8.51465091	8.378705770
DKAP3	8.194640318	8.233769739	8.618550976	8.356399482	8.894530786	8.612866614	8.458097023	8.282555322	8.401419056	8.282555322	8.401419056	8.282555322	8.401419056	8.282555322	8.401419056	8.282555322	8.401419056	8.282555322
MEF1	7.330076532	7.112818758	8.916498788	8.18286592	8.481428167	7.258479379	8.557663911	8.600898501	8.325374026	8.44540734	8.439414635	8.420191872	8.091170964	8.237733991	8.631547653	8.799288935	8.236159953	7.97390501
ACTO13	8.417816548	8.125811027	7.854743129	7.980434882	8.869393705	8.224827816	8.414648089	8.869839705	8.224827816	8.414648089	8.869839705	8.224827816	8.414648089	8.869839705	8.224827816	8.414648089	8.869839705	8.224827816
RUVBL1	8.798844013	8.794100755	8.9751122054	9.655764119	7.429007586	8.334404015	8.332178038	8.364998625	8.473937773	8.388281752	7.625975561	8.812644061	9.415594485	8.384530332	8.295400066	8.194519858	8.382076608	
TMEM161A	8.819534187	8.54968197	8.383304073	8.028842703	8.473901079	8.799743269	8.303399607	8.785185825	8.067309968	8.230664993	8.039510543	8.691362962	8.530029845	8.718540776				

THAP6	8.417773567	8.325730835	9.059417812	8.566617779	8.402878429	8.845397711	8.137413533	8.610607926	8.082644375	8.53029032	7.980527703	7.915947741	8.943266307	8.914272314	8.223151105	8.406852629	8.269959166	8.303767301
XPO6	8.540451261	8.138243396	8.366941877	8.561752075	8.246768768	8.034591296	8.231105567	8.559820315	8.017381312	8.579796045	8.140445855	8.442663388	8.869305105	8.057173341	8.802300713	8.304401425	8.875577723	8.262037511
SGPP1	8.752540329	8.025340729	8.591646568	8.924042605	8.257773400	8.723846571	8.849264785	8.865351372	8.589395477	8.092866818	8.332534589	8.287059691	8.097206923	8.821661851	8.905121932	8.091852695	8.735279942	
ORR2	8.163355584	8.740996889	8.466658889	8.761533628	8.925468337	9.574000809	9.028072177	8.135695471	8.643063599	8.340564383	8.938536888	8.644268878	9.033445553	8.305313992	8.310339257	8.893134226	8.115649901	7.848060179
RFI23	8.980665935	8.375949859	8.385789829	8.130440858	8.585796829	8.175033202	8.553787411	8.440265989	8.440265989	8.430042399	8.726372235	8.442043112	8.077804834	7.608255998	8.071964951	8.612403691	8.612403691	8.374425238
FAM193A	8.752634014	8.283767487	8.613878005	8.841376491	8.851054331	8.50667032	8.508444448	8.00508642	8.330270047	8.438005651	8.295915175	8.573565594	8.812504551	8.626787001	8.160282140	8.544747827	8.929296655	7.971794471
QDF2	8.730890903	8.871739008	8.622588834	7.628119372	7.831739251	7.760517967	6.777907064	8.564135926	8.737663565	8.605411975	8.443177109	9.576744118	8.11044289	8.041293134	8.016806017	8.194155738	8.229442132	8.402900417
CFVP1	8.076623458	8.181139112	8.643321553	6.196463903	6.732332451	6.24275065	6.65599259	8.005413114	8.005413114	8.005413114	8.248403063	8.577253385	8.85343067	7.834212444	8.726293987	8.24265014	8.744282106	8.552520029
PKD1	8.951854985	8.328093533	8.306098277	8.691446029	7.444545669	7.376117829	8.84480185	8.275017235	7.95196386	8.61890792	8.134584957	9.936415203	6.79541531	8.872295549	8.404157387	8.399338294	8.789147444	8.429518734
CS19A3	8.831121057	8.179363358	8.179363358	8.000124005	8.814285128	8.053139531	8.29315799	8.54496369	8.387261546	9.092432155	8.359978761	7.053250006	8.006108293	8.134130748	8.134130748	8.134130748	8.134130748	8.251188806
RNASE4	8.807554474	8.46688714	8.60688714	8.436880874	8.512416287	8.39030653	8.421278712	8.760348846	8.707823387	7.873926529	8.55186278	7.83920025	5.974158884	8.92290603	8.151561907	8.01426206	7.919413736	8.125677633
ZNF51	9.286365174	8.106899471	8.721418542	9.165574422	8.60839629	8.91828679	8.417438723	7.952748656	8.784527509	9.05106672	8.649565945	7.999073176	7.88268335	8.831550913	8.675692551	8.442859214	7.732797131	8.586153347
CD14B	8.41106418	8.430497376	8.788233712	8.418549926	8.17640046	8.649455436	8.282021996	8.341288575	8.744409049	7.83631609	8.83506697	7.389392365	8.267308582	8.727930474	8.139476393	8.139476393	8.139476393	8.139476393
SLN2	8.128008229	8.03695301	8.102317874	7.684159889	8.547350751	6.854399336	8.342676748	8.971891739	8.09044289	9.053414064	8.352116139	8.44391697	7.12981927	8.596110023	8.082739868	8.806732977	8.91357133	9.168185565
CIGT	8.196203768	8.086856221	9.088688587	8.59365384	8.342039857	8.595988483	8.130171918	8.600569624	8.130171918	8.600569624	8.52878062	8.102304077	7.519129526	7.914209068	7.76126966	8.251534522	8.31861095	8.84415568
TT13	8.698995751	8.635816552	8.843957184	8.475502555	8.937225886	7.997201106	8.636791037	7.944649077	7.87540227	8.042462177	8.193968561	8.08049031	8.824326532	8.17526653	8.152686134	8.522726371	8.160692053	8.06399666
GRP180	8.604136708	8.576800449	7.390923811	8.604705111	7.461630056	6.687698939	8.390140185	8.242184455	8.324745575	8.324745575	8.35116182	8.61296337	8.58219205	9.52854219	8.68735737	8.387524423	8.385029888	8.578082933
FAM213A	8.024427003	8.61786167	8.356532088	8.45369829	8.083717442	8.3768835	7.860426714	8.670470753	8.00887117	8.58323804	8.25908392	8.567924265	8.217169194	8.006704896	8.41759813	8.90179682	8.332916334	
IREB2	7.26068418	8.446991816	8.565838219	8.284946492	8.975529987	7.612126742	8.351827086	8.96856997	8.048560728	8.089318825	8.67935875	7.72356022	8.503751718	8.10930653	8.050075491	8.23995409	8.865931984	8.561085278
INT12	8.340267353	9.351477711	8.930025986	8.529550225	8.739517662	8.739517662	8.739517662	8.739517662	8.211713671	8.2092384	8.0956113	9.540853044	8.409592007	8.67666531	7.925365199	8.860697361	8.362652449	8.931211277
FAM102A	8.416247683	7.905095669	7.962303522	8.529110127	8.17384942	8.030727484	8.97259422	8.822843466	8.198879903	8.239274549	7.75526854	7.46304164	8.137349044	8.137349044	8.137349044	8.137349044	8.137349044	8.137349044
TRIM38	8.146604389	8.80013975	6.565027694	8.284213872	7.91635204	8.518091402	8.251027831	8.251027831	8.400519477	8.400519477	8.239077324	8.348857401	8.282909005	8.83067081	8.226032889	8.527245276	8.648368041	8.063239555
THP2	8.987009477	8.80022321	8.18355196	8.399292054	8.391255294	8.465990494	8.808028008	8.194748386	8.160385186	8.123760129	8.526560659	8.419538413	8.816539825	8.08018151	7.995951379	7.916312971	7.84835546	8.55324587
ZDHC2	8.398751837	8.197253774	8.34792476	8.501917329	8.75873007	7.907391667	8.290641265	8.424237632	9.025827243	8.126705763	8.73802598	8.501787862	8.77648006	8.097191865	8.367130806	8.453390138	8.527428446	
SCFD2	8.40766585	8.9723509	8.51681445	8.45552483	8.8081930719	8.094436916	8.298744178	8.620882369	8.177142154	8.177142154	8.321581154	8.387130455	8.344956911	8.803062658	8.089543531	8.44910849	8.403158341	7.868465615
RGH2	8.219239185	8.705191181	8.780693633	8.728864447	7.967465028	9.140413882	7.967465028	9.257887912	8.267575812	8.162033954	8.37891806	8.415307837	8.903801812	6.906144972	7.919343138	8.602975758	8.59879697	8.469840024
CLIC2	8.960861399	8.44983826	9.37348626	8.522209626	7.445732483	8.721801462	7.727598958	8.15109842	8.567805952	7.435257457	8.105249428	8.060374228	8.41444419	8.637400462	8.36945012	8.374587091	7.864343367	8.037975185
WVORC11	7.90313024	8.545632555	8.545632555	8.545632555	8.545632555	8.545632555	8.545632555	8.545632555	8.545632555	8.545632555	8.545632555	8.545632555	8.545632555	8.545632555	8.545632555	8.545632555	8.545632555	8.545632555
OTUD4	7.378540925	8.143291219	8.477184719	8.65475883	8.214583696	6.856832612	8.195210982	9.135275743	8.308643427	8.945707061	8.72415654	7.76126275	8.976219877	6.845435643	8.965712913	8.700353487	9.070728984	8.082902188
MGAT3	9.48844292	8.587078736	8.587078736	8.587078736	8.587078736	8.587078736	8.587078736	8.587078736	8.587078736	8.587078736	8.587078736	8.587078736	8.587078736	8.587078736	8.587078736	8.587078736	8.587078736	8.587078736
UVSSA	8.519008492	8.362453044	7.410772795	8.326434351	8.439921832	8.16977245	8.5378701	8.607479397	8.088013078	8.281952004	8.57519675	7.728920821	6.119764024	8.054901409	8.867956662	8.55952472	8.42017061	8.341373155
FBXL20	7.62803799	9.25635785	9.945912965	8.747820964	8.388557162	8.408395416	8.117286974	8.487897014	8.00730067	8.606305511	9.137755629	8.326228966	8.849079466	8.308512456	8.38943395	8.787196216		
ID3	8.944593269	8.243858727	9.002115733	9.24668372	8.063034959	8.288496837	8.899532244	8.574229947	8.135419555	8.194295108	8.543479852	7.51387912	8.490482967	8.445230347	8.336843569	7.239368367	7.861701599	9.27737332
RAS16	8.400273854	9.72557422	8.98606552	8.675274296	8.789809314	9.122828247	9.45122678	8.59916612	8.160680717	8.160680717	7.71948825	7.923490304	6.325897296	8.810720219	9.137334449	8.32202515	8.76151055	8.374828248
RABO6	8.52088442	8.505211216	8.401674934	8.025745932	8.52535566	7.887680587	7.887680587	7.887680587	7.887680587	7.887680587	8.129807616	8.51144483	8.67924369	8.17074521	8.476208206	8.468492033	8.133744274	8.814744714
CDKSRAP2	8.67727331	7.832323525	8.102221484	7.26529042	8.702235446	8.281890018	9.056833731	8.70057402	8.234037421	8.490796232	8.139631648	8.647800064	8.275406312	9.0089685	8.7515342	8.102744835	7.93460041	7.695856634
TERF2	8.496487831	8.92076374	7.66668833	8.09408966	10.14960496	7.751207383	7.615316232	6.474934052	8.692053841	8.600027259	8.34835101	8.348351007	8.03836884	8.440927953	6.519054688	8.849115702	8.431245349	8.468982251
CFo2f4	8.369750328	9.238832657	9.077035746	8.959822552	8.507295085	8.321439755	7.799596408	8.21300004	8.608923983	8.790361129	7.31297263	8.338748794	8.292783382	8.40061675	7.787196216			
TMEM64	8.15699542	8.779374689	8.615607133	8.47559086	8.292760048	8.57814655	8.734866014	8.640284347	8.860897012	8.513183694	8.38745666	7.060347903	8.388198224	7.947074025	8.284540401	8.344238998	8.05932227	8.008903684
CEP128	7.854194511	5.743400371	8.525119584	7.842928733	8.947287059	7.701694455	8.890147	8.101589364	8.384668781	8.101589364	8.384668781	8.409650705	8.25374718	9.519064129	8.777434394	8.781726997	8.059205007	8.041038663
RAV1	8.46647138	8.46647138	8.46647138	8.46647138	8.46647138	8.46647138	8.46647138	8.46647138	8.46647138	8.46647138	8.46647138	8.46647138	8.46647138	8.46647138	8.46647138	8.46647138	8.46647138	8.46647138
MCC11	8.505473937	8.767164319	8.004646902	8.146972668	8.8489941	8.775689027	8.87825687	7.91545448	8.397261624	8.402970174	8.402970174	7.904326558	6.02593647	8.024218432	8.403749167	8.1		

SPKX2	7.971702413	8.71811202	8.584169874	8.912131803	8.673360094	8.360214194	7.857170925	8.443400131	7.697131122	8.658957056	8.376397488	8.617399052	7.764130513	8.157587519	8.267425309	7.585721208	8.123322083	8.37637788
ACTR8	8.1571004172	8.110301826	7.130748212	7.146622311	7.121740242	8.417235462	8.861040005	8.386456677	8.698668986	8.184205247	8.877594036	8.184337534	8.849185886	8.04510439	8.756228442	8.872946715	8.32521232	8.383995722
PKR32	8.193657359	7.209191525	8.632500214	7.888797288	8.462137024	8.964588698	8.506884539	8.045746706	8.248540744	8.294218328	8.405463789	8.344208663	8.492221254	8.122402872	8.391911744	7.955060826	8.061276022	8.249199948
MKNX1	8.14959316	8.334360006	8.808253988	8.709389379	8.160059687	7.9573446	8.566115839	8.512417031	8.320776098	8.403137323	8.153626265	7.885443473	6.648117194	8.600776343	8.409272965	8.406560161	8.328546878	8.175164272
MFN2	8.15449839	8.175285131	7.995615532	8.437022406	8.481809463	8.481809463	8.481809463	8.084756026	8.302235118	8.478540276	8.478540276	8.478540276	8.478540276	8.478540276	8.478540276	8.478540276	8.478540276	8.478540276
METL1	8.712880089	8.28059529	8.68802482	8.20929529	8.153055129	8.367131189	8.48064882	8.389478581	8.950304882	8.253785378	8.266642823	8.786848052	8.234475822	8.620326242	8.364731112	8.687926257	8.37149422	8.678926257
MRA7	8.389588623	9.5089985	8.341082665	8.210295406	8.11309288	8.960284105	8.957002865	8.298634325	8.910264462	7.790372859	8.545395795	7.981070191	8.60323262	8.705111231	7.487191899	8.097498512	7.900429796	7.835346769
RAB43	8.448939648	8.230857034	8.541138101	8.02634795	8.6726922	8.091516352	8.291810225	8.335954778	8.251047842	8.578068442	8.399936619	8.607279968	8.21332445	8.354256377	8.241777012	8.004151028	8.063073948	8.055809351
ATP6V1H	8.486604420	7.606148407	8.02493772	8.580642887	8.540548187	8.492597771	8.870600871	8.04674715	8.53761705	8.058189768	8.199525987	8.219055871	8.970813341	8.836291275	8.239664229	8.230112317	8.037076653	8.174313923
RWD2A	8.95594477	8.266511493	8.210922192	8.938893201	8.075811192	8.336964882	8.692718744	8.388371437	8.699721874	8.08697287	8.110987431	8.210103425	8.035105813	8.226716931	8.630513285	8.496047688	8.105549311	8.175431923
TK2	8.280420834	8.839955501	8.673533482	8.421779952	8.335543695	8.581177736	8.421279952	8.015963588	8.396426388	8.000878252	8.566730824	8.228468927	8.048686127	8.038804506	8.858026673	8.038804506	8.858026673	7.774250854
ChorF2	8.116249369	8.082706361	7.849197225	7.96822242	7.576959444	7.681513644	8.400609575	8.787632449	8.231626995	8.4643650369	8.464727699	8.004972178	8.471442429	8.813978354	8.882333242	8.556325551	8.759857118	8.622913913
FAM35A	8.52493962	8.07174101	7.769167877	8.00472075	7.900320041	8.22157646	8.990458307	8.063795754	8.273742533	7.788355447	8.07207948	7.107939172	8.7814796	9.118916045	8.448657372	9.06724431	8.27624431	8.27624431
CFD1	8.191921179	8.343818459	8.616257521	8.870406984	8.370746255	7.691871228	8.102950126	8.202571043	8.347614886	8.440630333	8.350830481	8.307451206	8.402079672	8.903212105	8.197426048	8.438624421	8.072625252	8.172687844
CNO73	8.717425956	8.757548179	8.303436586	8.296867442	8.597222127	8.18834158	8.15789015	8.184495518	8.15789015	8.224692152	8.306179317	8.644468023	8.79759288	8.973861319	8.38777922	8.364189961	8.620352132	8.356381713
ASUN	8.167079213	7.398738352	8.11863284	8.909084684	8.745755588	8.164937157	8.030474644	8.323295906	8.52581162	8.224692152	8.084150931	8.222532468	8.648176728	8.441349351	8.248908859	8.222532468	9.277129424	8.354319208
NVL	8.20517947	8.789657544	8.226226249	8.10073118	8.10073118	8.23961462	8.648176728	8.441349351	8.248908859	8.222532468	8.648176728	8.441349351	8.248908859	8.222532468	8.648176728	8.441349351	8.248908859	8.222532468
SULF2	9.24518536	8.712765046	8.486144473	8.300251801	8.417088444	7.984994641	8.679054848	8.611224036	8.961187709	8.789299514	9.340212749	6.505625494	8.20167499	6.439106525	7.778773946	8.199938858	7.600340169	7.889970751
CLDN3	8.418959162	7.918295665	8.073198037	10.0884057	8.433203919	9.298891005	9.000963582	8.523923249	8.642970339	8.348888375	8.33487863	7.101515294	7.342759663	7.235646915	7.752024187	7.029144627	6.828891456	10.08759011
HGSMA	7.730558959	7.061060381	8.463384356	8.042694261	8.077063216	8.93772184	8.443272899	8.403565022	8.403565022	8.403565022	8.403565022	8.403565022	8.403565022	8.403565022	8.403565022	8.403565022	8.403565022	8.403565022
FAM35A	8.52493962	8.07174101	7.769167877	8.00472075	7.900320041	8.22157646	8.990458307	8.063795754	8.273742533	7.788355447	8.07207948	7.107939172	8.7814796	9.118916045	8.448657372	9.06724431	8.27624431	8.27624431
SRF	8.68429091	7.88442027	8.310629953	8.704232217	7.884301118	7.957783085	8.290510512	8.825019512	8.364224011	8.174371138	8.680184555	7.856198962	8.570388283	8.046484878	8.382938047	7.962283637	8.17211341	8.17211341
HK1	8.356291877	7.759146113	8.588314418	9.25824442	8.007486322	7.189009198	7.8020927	8.39754136	8.385983605	8.234143639	8.649838887	7.942262874	7.78119564	8.484020508	8.637667971	8.354686821	8.33917974	8.060137617
CHERP	8.138841678	8.168494288	8.217061961	8.064166831	8.17061961	8.327023714	8.202980945	8.327023714	8.202980945	8.327023714	8.202980945	8.327023714	8.202980945	8.327023714	8.202980945	8.327023714	8.202980945	8.327023714
PSM5A	8.086247574	7.283279503	7.963704974	7.963704974	7.963704974	7.963704974	7.963704974	7.963704974	7.963704974	7.963704974	7.963704974	7.963704974	7.963704974	7.963704974	7.963704974	7.963704974	7.963704974	7.963704974
JDP2	8.657545132	8.076391181	9.003500466	7.92762529	7.92762529	7.92762529	7.92762529	7.92762529	7.92762529	7.92762529	7.92762529	7.92762529	7.92762529	7.92762529	7.92762529	7.92762529	7.92762529	7.92762529
SC5A23	8.22966868	9.76276529	9.464484314	7.92577805	7.92577805	7.92577805	7.92577805	7.92577805	7.92577805	7.92577805	7.92577805	7.92577805	7.92577805	7.92577805	7.92577805	7.92577805	7.92577805	7.92577805
IFW1	8.16591441	8.25068947	8.15839192	8.009175224	8.10389496	7.7137901	8.283860674	8.40210336	8.781038374	8.296381826	8.902282441	8.594614534	7.80464002	9.288715389	8.946468802	8.270171389	8.291371886	8.321035958
SC35E	7.532032853	8.992805254	8.674773082	8.073227713	8.830578534	8.633000745	7.395482258	8.263092535	7.643926492	8.41938186	7.921528978	8.370845386	7.519102919	8.510463228	8.761047638	8.07837046	8.33422965	8.770885227
CDP1	8.829727937	8.254780587	7.738467796	8.159906178	8.254780587	8.254780587	8.254780587	8.254780587	8.254780587	8.254780587	8.254780587	8.254780587	8.254780587	8.254780587	8.254780587	8.254780587	8.254780587	8.254780587
RAB2B	7.844826135	8.59061493	8.046627396	7.914616018	8.59234786	8.023894723	8.778442475	8.875085217	7.86521737	8.000778079	8.512483422	8.191967727	8.174478555	8.788127418	8.910332046	7.728890045	8.636671611	8.21091927
RPUSD1	7.844826135	8.59061493	8.046627396	7.914616018	8.59234786	8.023894723	8.778442475	8.875085217	7.86521737	8.000778079	8.512483422	8.191967727	8.174478555	8.788127418	8.910332046	7.728890045	8.636671611	8.21091927
HP5	8.415752003	8.846898257	7.997221959	8.079780131	7.973068045	8.242978176	8.825258318	8.268283336	7.95146574	8.288381918	8.660617417	7.863166073	7.515224889	8.782247467	8.56597339	8.448667635	8.484361044	8.849519410
IFZL1	8.174769859	8.120218184	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812
INT5	9.496646815	8.738639533	8.226583299	8.877131843	8.197717655	8.321479919	8.65930274	8.15268989	8.770874276	8.156160797	8.854621643	8.687115252	7.918599728	7.204804665	7.730521214	8.895299566	8.378928621	7.988575464
GLRX5	8.932493217	8.347602322	8.549653217	8.549653217	8.549653217	8.549653217	8.549653217	8.549653217	8.549653217	8.549653217	8.549653217	8.549653217	8.549653217	8.549653217	8.549653217	8.549653217	8.549653217	8.549653217
ICE2	7.980760642	8.972253622	8.910244519	7.986136537	8.034901227	7.651432621	8.655307166	8.316016112	8.396346959	8.456258428	8.38193476	8.384785513	7.098961068	7.794942662	8.528678647	8.06123595	8.17753139	8.405104310
PYCARD	8.374951862	8.17438211	8.819279982	8.524473179	8.515656202	8.1263139076	8.500831661	8.1263139076	8.500831661	8.1263139076	8.500831661	8.1263139076	8.500831661	8.1263139076	8.500831661	8.1263139076	8.500831661	8.1263139076
ZDHC14	9.249792798	9.249792798	9.249792798	9.249792798	9.249792798	9.249792798	9.249792798	9.249792798	9.249792798	9.249792798	9.249792798	9.249792798	9.249792798	9.249792798	9.249792798	9.249792798	9.249792798	9.249792798
H4U5A	8.139601787	8.007867579	8.895082519	8.260256403	8.760391707	8.069550845	8.599363456	8.50142208	8.514783844	8.905616257	8.511075428	8.448985374	7.981657195	7.75906818	8.377697697	8.412128074	8.3581083	8.36413528
IFZL1	8.174769859	8.120218184	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812	8.356769812
RAB6	8.520718663	7.78514701	8.669107925	8.07176019	8.32786041	8.67646029	8.361213103	8.399635688										

POLIM5	7.816380015	8.937564358	8.525217947	8.801928107	8.224558238	8.822782572	8.255041903	8.388897713	8.230160873	8.273086725	8.250723298	8.677146737	7.748655627	7.616322188	8.475029104	7.980984234	8.509492692	8.881267491
RRP1	8.842088352	8.904741586	8.732128631	8.331687028	8.427278000	8.395243661	8.600840592	8.282948735	8.279525463	8.489634753	8.406735552	8.094266701	8.0431626	9.331241236	8.150359960	8.271547446	8.12151655	8.306918129
SRRD	8.246395418	8.299865922	8.707935194	8.598663021	8.839612744	8.793290191	9.005069652	8.322629593	8.194050065	8.32811755	8.051536009	9.097685009	7.721182943	8.79749787	8.350188156	8.480954414	8.335892213	8.123530403
ESD	9.03914795	9.054384212	8.285370713	7.839142864	9.124414086	8.555607656	8.359236502	7.943869715	8.706407439	8.300202953	7.869838599	8.587114446	8.158079896	8.061766172	7.788312893	8.596649562	7.947350864	8.656105923
WFA	8.514505157	8.234084529	8.230897233	8.230897233	8.775579648	8.571440779	8.194735191	8.194735191	8.214068674	8.214068674	8.531267449	8.198948916	8.41627865	9.056962917	7.72544989	8.577510381	8.145529374	8.212584242
NCL9	8.196807335	8.693533337	7.698452206	8.940320206	8.630234028	8.033240208	8.033240208	8.168960482	8.168960482	8.540602025	8.1599204	8.0579045	8.0579045	8.0579045	8.394072753	8.309845104	8.547771343	7.754520678
TIAM2	8.308782376	8.15870432	8.145663646	7.446412438	8.344199673	8.18484645	7.773968637	8.803422312	8.518313611	8.233026622	8.203639182	8.08820561	9.362628734	8.759106196	9.355288626	9.151620644	8.711401571	8.736886361
RHDM1	8.813428525	7.107209427	8.373909008	8.20042501	8.425400412	8.268884038	8.268884038	8.616207045	8.780843668	8.651723255	8.298083317	8.076370085	8.376699579	7.293655666	8.435054671	8.086457643	8.652278186	8.581127444
SHK	8.365608036	7.373837526	7.932529949	7.980969476	8.999948727	7.974334438	8.474376336	8.35574824	8.50066861	8.092777122	8.456780035	8.378533409	7.134380251	6.04389966	8.267714973	8.450957672	7.988726447	8.439074544
MRPL15	8.703263352	9.249540682	8.730935284	7.921290846	8.460539861	7.982100052	7.92829769	7.98180052	7.998355524	8.062827774	7.281986199	8.179033116	8.698848552	7.879540011	8.086165467	8.086165467	8.593866304	8.593866304
HTA2	8.28144728	9.305419284	8.317811989	7.988831426	8.543080892	8.543080892	8.543080892	8.220048265	8.474128695	8.092978535	8.424229131	7.883198834	8.26568108	8.93730545	7.504179619	8.14247357	7.913300858	9.3026913
COOP5	7.999341371	8.643022784	9.027473416	9.396929584	8.483661535	8.200862262	8.062496551	8.328797014	8.301280511	8.106138433	8.255306186	8.227555813	8.313370963	8.630390773	8.475287863	7.987349809	8.325640461	8.893958994
ADAM17	8.125934292	8.607516695	7.119323565	8.212906846	8.460539861	7.63084587	8.427356708	8.460539861	8.460539861	8.597838858	8.506846125	8.367512401	8.041010376	8.287076643	8.270242861	8.663306638	8.417010874	7.946474151
PKM	6.151911231	8.543640044	8.460380689	9.069773018	8.748955737	8.489292531	7.312407065	8.181963889	8.122684885	8.145877284	8.253719948	9.006794518	8.984257826	8.400837628	8.51336485	8.161338651	8.068489596	7.488033418
JAK2	7.395336584	8.276661389	6.256872008	8.557461183	8.055227445	8.055227445	8.055227445	8.307662442	8.342562442	8.752783887	8.452039549	8.832051757	8.87751376	8.360498304	8.061091317	8.246192875	8.604358187	8.80727028
NDST2	8.843754887	6.954260786	8.770045787	7.754595942	8.366023573	7.383243164	8.132297542	8.273924111	8.384869604	8.512849387	8.324542927	7.55861902	8.325432283	8.67221911	7.87862619	8.327312469	8.628952263	8.628952263
VP33A	8.393761589	8.594255617	7.603629966	8.671321072	7.75029187	8.492272381	7.763744751	8.382947623	8.120576295	8.266484529	9.312638144	8.732632273	7.560873146	7.693406411	8.244842858	8.405671723	8.986041503	8.986041503
DDX51	8.107087294	7.73872087	8.360234628	9.061339225	8.631573426	8.805389554	8.226385414	8.224989844	8.450147806	7.784278289	8.45823382	8.332585233	7.929819457	8.708614576	8.178965235	8.29082621	8.354079977	8.354079977
ASF1A	8.345241327	8.181460683	8.181460683	9.054892111	8.93655004	8.93655004	8.93655004	8.261481219	8.109343444	8.211913101	8.422991751	8.781599856	8.825608139	8.487117989	8.144863991	8.289655997	8.178680805	7.7644115
SMUR2	8.375554074	8.765303364	7.71952229	7.81443112	8.524698079	7.827764339	7.910112305	8.401846984	7.951531698	8.373994328	8.25825757	7.248599584	8.517012163	8.341037636	8.487890754	8.30584179	8.107041566	8.477700165
SPNS1	8.676320725	8.576320725	7.516131317	8.007020125	7.985531186	8.605703849	8.304312625	8.34457691	8.58595756	8.296293232	8.615826943	8.03352036	8.855471288	8.954807112	8.081170237	7.932132228	8.309786729	8.309786729
DNAJC14	8.291262714	7.862575203	8.27668709	9.17685857	7.277462754	8.958900987	8.382158325	8.958900987	8.20323796	8.352725879	8.399650127	8.506233948	8.022015323	8.24223005	8.413267030	8.649622888	8.468001616	8.468001616
MRM2	8.491595642	8.87714729	8.379253754	9.63110754	7.910585174	8.82464365	8.61021321	7.68888717	8.265109214	8.134299558	7.80345382	9.030877627	8.741351119	9.033717253	8.034931919	7.953836757	7.539771821	7.919340581
SUMF1	8.04139158	8.460260795	9.003581569	8.484273063	8.314031908	8.153457758	8.54507758	8.874061861	8.289122586	8.392475288	8.842680224	8.42453758	8.978950218	8.685028738	8.022837861	7.962114324	7.735724817	8.320520704
PM13	7.280095245	8.175192882	8.846665312	8.175192882	8.763565832	8.846665312	8.846665312	8.609579834	8.701529328	8.401163218	8.209983579	8.14710186	8.242323423	8.42165551	8.715162262	8.464547265	7.875989576	7.627445145
TRIM13	8.951906612	8.622064266	7.162045855	6.854794121	8.915070305	8.280671116	7.524997701	8.261781413	8.355943634	8.438396059	8.79978305	9.121412431	8.77324894	9.133499374	8.014366043	8.282409953	8.432229039	8.055251853
SCAF3	8.534366617	7.685265231	8.052084882	8.20720221	8.70282579	8.476995744	8.018470811	8.240302248	7.950528512	8.481739192	8.40777843	8.308552529	8.972091638	8.809999981	8.203766012	8.623016881	8.31610646	8.196621673
ADAM38P	8.775034347	7.583434347	8.20322132	8.20322132	8.775034347	8.20322132	8.20322132	8.19432132	8.19432132	8.19432132	8.19432132	8.19432132	8.19432132	8.19432132	8.19432132	8.19432132	8.19432132	8.19432132
PADK	8.67619824	8.87961295	8.45740246	7.89270001	8.33554435	8.739570441	8.113805648	8.331885546	8.90470151	8.107259642	8.331885546	8.90470151	8.107259642	8.48622364	8.731040882	8.22762427	8.10073944	8.10073944
HCTD4	7.97695359	7.73125909	7.934364774	8.746602021	7.760220846	8.543237182	6.979741483	8.487270952	8.06916285	8.345572172	8.292398578	7.778293942	8.38791659	8.17515936	8.408324723	6.64796321	9.171874042	8.579636839
PPAT	8.009483309	6.609332727	8.273028462	8.671824236	8.661491548	7.104443184	8.107550108	8.764028264	8.674028264	8.107550108	8.364263145	9.132591984	8.113197846	9.101822012	7.857800512	8.626681646	8.37635074	8.767020308
RRP30	7.70461127	8.601915983	8.861530965	8.90099763	8.46526933	8.868137772	8.854198881	7.959467177	8.282099171	8.35828192	8.317051257	7.545312554	8.716156451	8.372721629	7.791354444	8.276931029	8.318504445	8.869877495
TCB1D10A	8.459107126	7.845249713	8.596938028	8.464563922	7.911129422	8.640852884	8.382327581	8.379186451	8.196773519	8.137816451	8.158751491	8.788334979	8.196773519	7.934397217	8.253595356	8.134805283	8.18155777	8.69629727
PAT1	8.288919154	7.849309648	7.388068774	7.68120422	8.316894808	8.16418026	8.644896061	8.789590538	8.604451153	8.473231331	8.923343052	7.016110788	7.85961234	8.708829309	8.58889702	8.318627994	8.900757013	8.269046613
Gor47	9.04272654	8.703487353	7.712554534	7.712554534	8.405572533	8.405572533	8.423084368	7.965588231	8.494171093	7.81232527	7.858686976	8.39459097	8.349364337	8.94185763	8.291261064	8.73838672	7.996468804	7.996468804
FE1	8.107655024	8.107655024	7.7265010324	7.7265010324	8.2605010324	7.89454046	7.113645593	8.836824805	8.400987477	8.400987477	8.170958368	8.170958368	8.170958368	8.170958368	8.170958368	8.170958368	8.170958368	8.170958368
SORT1	8.978613134	8.014199836	8.283600557	8.389952529	8.782995568	8.002279685	8.133598118	8.443263901	8.170105438	8.347690223	8.439395141	7.77423194	7.394470814	8.407152748	8.500748702	7.811635701	8.167880242	8.370558339
DEPT	8.94867179	8.93192169	8.654349533	8.72453748	9.104975147	7.965148101	8.301236624	7.965148101	8.944698966	8.286442111	9.138651946	8.027021298	7.12671459	7.645903148	8.074276533	8.096039654	8.777486152	8.147522724
RR1-544M	7.662657355	8.344303673	7.46232425	8.03602409	7.868496694	8.365195387	7.271915955	8.445213904	8.058264574	7.828171691	8.6768063	8.0495731	9.231250219	8.480197249	8.285035059	8.76298908	8.185600441	9.65835137
UCB4	8.27314399	8.959592	8.647532739	8.385292018	8.248134771	8.248134771	8.613029319	8.355686001	8.474227927	8.086984716	8.061553195	8.82557228	8.752422883	8.854154485	8.153035018	8.23255049	8.102610252	8.430531997
RUM	8.203288944	7.625414715	8.356887139	7.87137107	9.025715107	8.340076853	8.340076853	8.287367862	8.245211921	8.223058268	8.624309814	7.913158402	8.962279418	7.651078992	8.622384098	8.931390539	8.2550497	8.2550497
ZDDHC4	7.252665959	8.932214891	8.507794174	8.681466971	7.57174222	6.49655495	8.340591415	8.17186916	8.304591415									

TMEM168	7.585206773	6.26827226	8.225230187	8.407856981	8.122472998	7.76914617	7.52706561	8.351980946	8.428322756	8.536753587	7.63060528	9.210154008	6.475694234	8.387185617	8.516473166	8.683144411	8.111453335	8.377299075
STAMPB	8.00122784	8.001170004	8.533082832	8.367170579	8.204766555	7.781518715	7.716684084	7.918971315	8.088121888	8.448484416	8.365649619	8.93549735	8.80335562	8.518993508	8.036801076	8.211216109	8.511490007	8.192248351
GNPNAT1	8.40779278	8.284856117	8.179975283	7.996010667	8.774660525	8.599479547	8.155214597	8.168071315	8.515990841	8.291808743	8.34223666	8.940373032	6.505494242	8.08554719	7.98877603	7.928069537	8.51820425	8.75422361
CH06	9.122229925	7.99435624	6.77742486	7.92904474	8.168971473	7.650745049	8.503353331	8.60287465	8.38668277	8.660229258	8.685646767	8.010160361	6.55282066	7.856876452	8.308002519	8.809176344	8.720315324	8.268257483
CE11	8.42979094	8.51764625	8.28146525	8.510073293	8.28146525	8.396232287	8.391161998	8.333140322	8.23257463	8.05196067	8.09068517	8.05793943	8.29477981	8.05653010	8.26543942	8.05653010	8.26543942	8.05653010
RFK2	9.772852787	7.206414852	7.114923954	8.118129394	8.118129394	8.066878003	8.246111203	8.134495268	8.134495268	8.134495268	8.134495268	8.134495268	8.134495268	8.134495268	8.134495268	8.134495268	8.134495268	8.134495268
GRAMD4	8.05653671	8.318460533	7.832262589	8.352714142	7.94605795	7.940438889	8.099590687	8.257723286	8.499366510	8.3389598	8.076028421	8.35658147	7.895599087	9.15457124	8.637339619	7.976705078	8.37978587	8.65528239
8.300702472	8.065800554	6.705974098	8.329585847	8.280108513	7.940431507	8.056397126	8.329585847	8.280108513	8.487616112	8.41456871	8.042926119	8.819043721	8.610214863	8.610214863	8.424056791	8.412340565	8.713240565	8.713240565
RHD14	8.317604832	8.19885735	8.107483892	8.711261683	8.415509877	8.163512218	8.417969258	7.95241485	8.283127997	8.403912194	8.289212946	8.952723276	8.122257615	8.724904485	7.709388532	8.175773118	8.345057304	8.013096788
USF2	7.525416485	8.26425302	8.18001457	8.264277966	8.264277966	8.562533009	8.562533009	8.40526457	8.40526457	8.40526457	8.40526457	8.40526457	8.40526457	8.40526457	8.40526457	8.40526457	8.40526457	8.40526457
ADSL0	7.8001457	8.172297784	8.401121786	8.31866621	8.551258816	8.401124256	7.999861363	8.390193891	8.128548308	8.128548308	8.189974401	8.098862621	8.424540527	9.790342581	8.249330687	8.449954032	8.796876996	8.449954032
TRAPP68B	8.06800561	8.29047397	8.688903503	7.712637251	8.574150553	8.29666738	8.29666738	8.262136826	8.562663619	8.26579418	8.46073328	7.435235397	8.603962469	8.603962469	7.755629344	8.243114515	8.411030241	7.755629344
PTS	8.106877657	8.370455806	8.509823987	8.24732225	8.283365493	8.286958382	8.496758063	8.132197271	8.011938025	8.240337641	8.48806748	8.739063695	8.29652153	8.560164194	8.005709566	8.149873440	8.637720159	8.637720159
CDR2	8.523827946	8.136296467	8.284054178	7.504104408	8.143514017	9.120133821	8.506536511	7.8213590	8.68939199	7.462447927	8.184723637	8.295186322	9.2514033	7.815146691	8.284720835	8.7388015	7.911188005	8.24750875
SIRT3	8.376434314	8.376434314	8.376434314	8.376434314	8.376434314	8.376434314	8.376434314	8.376434314	8.376434314	8.376434314	8.376434314	8.376434314	8.376434314	8.376434314	8.376434314	8.376434314	8.376434314	8.376434314
COL6A1	8.813786869	8.330921263	8.107346487	8.00444144	7.923043442	8.370601378	8.291070117	8.451365046	8.291294368	8.591438628	7.873790428	8.06623455	8.276144117	8.789817741	8.753796048	7.893455968	8.392507355	7.845277787
PM20D2	8.102105871	8.336145618	8.336145618	8.336145618	8.336145618	8.336145618	8.336145618	8.336145618	8.336145618	8.336145618	8.336145618	8.336145618	8.336145618	8.336145618	8.336145618	8.336145618	8.336145618	8.336145618
RWD4A	8.23672662	8.65412714	8.599524162	8.382893326	8.745886535	8.745886535	7.922565611	8.45088362	8.133092075	8.336228989	8.423004923	7.922565611	8.554762468	7.990594313	6.715758243	7.85077812	8.318128578	8.318128578
AC3A1	9.448145773	8.494816566	9.448145773	8.180364522	8.66504848	8.347647808	7.892470075	8.568368005	7.996702579	8.21782039	8.979720096	8.125862038	9.077125382	8.145757399	8.075999321	8.39706182	8.182819674	8.182819674
CAD5B	7.592594688	8.39833684	9.861169335	8.123236233	8.761581632	7.615342843	8.883834139	7.712425447	8.469382916	8.221824223	7.79901202	8.028707973	5.971064546	7.575640326	8.637736777	8.165331295	8.036911646	10.07169067
IG1	8.151571728	8.580519688	8.003579343	8.184366783	8.572715754	8.185056486	8.752224405	8.265800988	8.496048002	8.193044887	8.271896096	9.535205757	6.648590451	8.423090989	8.276794179	8.465100304	8.28652504	8.28652504
ABHD11	8.075907177	8.049690890	8.172234275	8.58107843	7.981198323	8.05212877	8.05212877	8.05212877	8.05212877	8.05212877	8.05212877	8.05212877	8.05212877	8.05212877	8.05212877	8.05212877	8.05212877	8.05212877
PEX10	8.68001379	9.021674454	8.440286233	8.049185121	8.76654391	8.002985137	8.769204564	7.689594401	8.327954807	7.941824569	8.147308872	8.056077336	8.736696777	7.78238772	8.57852788	8.23459735	8.223728834	8.082475975
BRAF	8.088307314	8.658251814	8.727978342	8.58251814	8.727978342	8.242192463	8.956244191	8.086767784	8.580050792	8.580050792	8.580050792	8.580050792	8.580050792	8.580050792	8.580050792	8.580050792	8.580050792	8.580050792
PK3K3	8.894338839	8.317527304	7.682049732	8.010863126	7.897689535	8.360470371	8.2303571	8.132434687	8.056682821	8.328156667	8.193227209	9.248638633	8.820895704	9.325089781	7.930626413	8.702749225	8.16270356	8.16270356
ERNARD	9.271977088	8.547169384	7.148719109	8.0300588	8.57989779	7.95133843	8.864179313	8.31899563	8.241846348	7.96750552	8.384529002	9.019038042	9.096871663	8.033545758	8.084521347	8.354206272	8.718972048	8.718972048
R4B5C	8.201258074	9.022360492	8.699941173	8.787283065	8.801554128	8.833890232	8.938280495	8.300340482	8.548433708	8.33777881	8.115721994	8.08090092	7.811860511	7.841815395	8.027954184	8.06253745	7.987599448	8.001393225
UC2	7.890347674	8.896482779	7.29141568	8.13280725	8.82406273	8.02508197	8.02508197	8.02508197	8.02508197	8.02508197	8.02508197	8.02508197	8.02508197	8.02508197	8.02508197	8.02508197	8.02508197	8.02508197
MERTK	7.987907627	8.03462594	8.730897916	9.016244005	7.405628574	8.10473633	8.22933637	8.67959722	8.757615456	8.51519083	8.23652876	8.504739077	8.320155669	9.190880507	8.23903206	8.485359414	8.363512846	8.035288415
AP0F1	8.340839865	8.56968903	8.784299768	8.284261002	8.402419237	8.739523219	8.328904663	7.998409158	8.695939431	8.266850433	9.070764295	8.563482363	7.791678522	8.090293701	7.817925717	8.589593294	8.176327784	8.176327784
NSMCE2	8.184377771	7.901479631	8.039798173	8.004393799	8.819689022	8.09937889	8.247866006	8.505146309	8.159448252	8.22267425	8.492770094	8.380331691	6.706630544	6.935253144	8.400464843	8.477232474	8.308533215	7.963736857
USP1	7.889194716	8.66908843	7.77385491	8.444538089	8.486597323	7.89831632	7.98840421	8.016811824	8.746650624	8.459773872	9.012118124	8.55191351	8.81264518	7.974567627	8.739048449	8.077683837	8.06906903	8.06906903
KHLH7	7.704874158	8.686086349	8.484727757	8.690631427	8.433407707	8.681848584	7.54614804	8.098723586	8.098723586	8.04788922	8.18415558	8.288517046	8.263975442	8.01174815	7.73360361	8.334298893	8.029450589	8.029450589
CorF8	8.18512413	8.298635633	8.110751654	8.705624777	7.94781906	8.165128734	8.400854958	8.25380117	8.121096968	8.094024801	7.950127099	8.131073028	8.580561118	7.749796717	8.04403782	8.40363666	8.123752326	8.123752326
INP	8.166489961	7.797483548	8.753739094	8.75081894	8.36226099	7.95600422	8.668467118	8.300148586	7.937916155	8.083282096	8.139485668	8.772319059	8.450033909	8.571904057	8.250199864	8.065418276	7.924630567	8.669915262
Z23	8.76500119	8.80931268	8.310119867	8.09517104	8.34361551	7.920903034	8.257306642	8.866743333	8.479878844	8.419878844	8.040340658	8.224208588	7.562704258	8.033442191	8.363345371	8.325933916	8.425094726	8.152149871
SLC10A7	8.677913232	8.56473601	7.100229731	8.403558152	7.010183329	8.48244163	6.969160688	8.265932271	8.128784299	8.156411069	8.283280829	8.155388975	8.076374281	8.841990095	8.413636409	8.826675416	7.959099780	8.826675416
TEN1	8.426654535	8.29032338	7.97414248	8.496554548	8.238096687	7.83545277	8.150383604	8.016811824	8.746650624	8.459773872	9.012118124	8.55191351	8.81264518	7.974567627	8.739048449	8.077683837	8.06906903	8.06906903
C10a07	8.289782224	8.870772168	7.138402927	7.402816329	7.696676411	8.89825921	8.898472461	8.864873877	8.741550934	8.327004203	5.947296418	6.768181292	8.43023625	8.447285449	7.80014565	6.581861026	7.66285194	7.66285194
ZHHT3	8.421354252	8.61354252	8.28578773	8.57857869	8.382482117	8.618798887	8.748122301	8.307591587	8.28119434	8.035638589	8.620417671	8.619405378	7.647678782	7.955278304	8.422399882	8.139967838	8.398416626	8.398416626
FAM23A	8.357916557	8.339581222	8.059483568	8.293697972	8.246877283	8.041517327	9.134875359	7.821351347	8.404797743	8.231256235	8.663937574	7.975260403	7.913048389	8.527245336	8.427121819	8.199233738	8.959149863	8.959149863
ACHY1	7.239234077	7.697251599	8.575885671	8.33004656	8.106928864	8.504752521	8.106928864	8.271069901	8.26213574	8.392323574	7.910359							

COQ10A	8.367140839	7.53142764	7.917482339	8.012150608	8.25761182	8.202864027	7.907496854	8.468019082	8.248625487	8.569218423	8.431176641	8.462472111	7.972546372	8.250013813	8.965872908	8.198934239	8.479259594	8.007721657
CDC9C	8.190731692	8.147193114	7.894110738	7.907367429	8.377659488	7.700230731	8.439704215	8.288192319	8.101264443	8.380158225	8.262817419	8.608451112	8.233460096	8.379149937	8.185958336	8.710672913		
PK3R4	8.528093480	8.584505688	6.593849585	8.168770565	8.375691181	5.798585971	8.693791883	8.054432677	8.365643061	7.973419517	8.49169017	8.380158225	8.262817419	8.608451112	8.233460096	8.379149937	8.185958336	8.710672913
MGMT	7.954952155	9.083296691	8.345137357	8.343360956	9.023629345	8.775259854	8.613235986	7.45282964	8.652960014	8.229173428	8.247272822	8.018477891	9.135000325	7.567492572	6.648520115	8.245871545	7.661193889	7.956748914
YVDS	6.542720469	7.997856672	8.339886972	8.344462945	8.20139197	8.236781794	7.489730327	8.200508432	8.202224342	8.201079747	8.264811051	6.540789328	7.954545594	8.2461394	8.2461394	8.775465391	8.24476928	8.171895891
ATPV1C1	8.947972352	8.784727757	8.561378457	8.561378457	8.661350588	7.97242046	7.454561124	8.430490988	8.480099338	8.455999737	8.167007002	6.828536501	8.252977168	8.259007616	8.581647508	8.581647508	8.162380246	
MAP3K3	8.225377803	8.892233379	8.12374853	9.1006474	8.927722203	8.257651022	8.108832733	8.496417234	8.26451968	8.30552484	8.48836596	7.957431979	6.454410358	7.484754796	8.554195978	7.863964548	8.155304898	8.94016529
SCM1H	8.128611813	8.067182656	8.17638786	8.29624578	8.17638786	7.842980584	8.688788404	8.468454014	8.205236977	8.645980556	8.370545712	8.198945513	8.759419993	9.057972301	7.916575054	8.500295643	8.625116387	8.133830511
GNP2	8.790267151	8.977908482	8.411192831	8.154303588	8.839222866	7.95687661	8.369686285	8.144613347	8.21497414	8.217465361	8.504796669	7.933236132	7.903344709	7.7816851	8.039435875	8.490495153	8.330252	8.372974355
C1R	7.814888931	8.71922426	8.179634787	8.179634787	8.30832266	8.071822923	8.477652631	8.785190199	8.346866722	8.549339432	8.393674223	8.473282901	6.774855382	7.230452154	8.649906623	8.020117612	8.370995142	8.167530296
YD1C	8.62504674	8.630568004	8.630568004	8.577431093	8.26620409	8.573986937	7.914374918	8.185101463	8.185101463	8.185101463	8.185101463	8.185101463	8.185101463	8.185101463	8.185101463	8.185101463	8.185101463	8.185101463
OC1S	8.96397582	8.102372944	8.654612459	9.110907892	7.367557364	8.328984886	9.157139308	7.573403138	8.819168464	8.819168464	8.819168464	8.819168464	8.819168464	8.819168464	8.819168464	8.819168464	8.819168464	8.819168464
ED1	7.756002851	8.363020859	8.039201772	8.28589069	7.554315494	9.08415777	8.0051323	8.092554428	8.259306291	8.094059475	7.950514387	8.190098572	8.373570452	8.41081288	8.211190567	8.687120675		
FTS1J	9.114593036	8.413541375	8.326406872	8.019848327	8.95874361	8.078265272	8.075440633	8.499415608	8.672251873	8.40399669	8.326551338	8.190527566	6.635471425	7.204422714	8.2819039	8.408686762	8.203149784	7.680931801
TRGFRAP1	8.258683555	7.421608936	7.775411031	7.775411031	8.15642769	8.307701592	8.204468689	8.832472061	8.007277116	8.185182765	8.264601943	8.32461621	8.483891443	7.95187669	6.24563006	7.892163823	8.23685411	8.248043639
ARHGF5	8.140487214	9.281043745	8.442882821	8.977798716	8.845115372	7.974940163	8.147484001	8.242809907	8.133540733	7.712612073	8.241695426	8.130459838	8.388166258	9.106950001	8.377571276	8.153915202	8.182582548	8.646871126
TRAP1C1	8.376283332	8.221793085	8.681088513	8.459826837	8.383938623	8.26233774	8.568367255	8.154967343	7.810014631	7.9802485	8.34584825	8.32013376	8.564224247	7.919198427	7.949928347	7.629840974	7.924320237	
ZN7F61	8.509560656	7.397655872	8.885513847	8.271186949	7.433790604	8.679155603	8.211369439	8.305626043	7.964866003	8.027415488	8.793034887	9.050250903	8.716261397	8.198768806	8.272002873	8.162847968	8.171299009	
C1OCK	7.683864616	7.186401913	8.500098565	8.202799716	7.926064379	8.102515909	7.5447744	8.591406044	8.169051332	8.112190988	8.595354419	9.576670296	7.419016805	8.037743373	8.280232704	8.882480668	8.293010155	
FAM1208A	8.117282314	8.756231414	8.611310077	8.227402141	7.544865547	8.113611542	8.735307272	8.150741163	8.455289982	8.314179935	7.893706748	7.471279544	7.372938267	7.930407347	8.652196674	8.168286391	8.626077159	8.25573127
FAM156A2	8.8959116919	9.185432559	8.786438738	8.386526246	8.445566176	7.719073584	8.550891131	8.100729098	7.74825455	8.252331208	7.676976268	8.53323698	8.17332933	8.005974004	7.698731661	8.030451252	8.28984855	8.935840773
NAXD	8.12502323	8.045847189	7.990237963	8.301156272	7.823857989	8.155548677	8.92455729	8.257915246	8.009290618	8.25914566	8.009290618	8.268421257	9.299889652	9.264612951	8.407251196	7.9191062	8.226218684	
CDC2C2	7.845908763	8.711458319	8.362289466	8.840105302	9.025537251	7.448268777	8.549028598	8.248008928	8.412941346	8.070944166	8.33378183	7.371731281	7.718727408	8.234187379	8.143272715	8.166131219	7.89095424	8.191978957
K19F18	8.073287841	7.874911406	8.329400911	8.266126725	7.733040453	8.182742606	7.977768343	8.235111032	7.977768343	8.345110941	8.431521293	7.033922425	9.950897744	7.225315264	8.345506877	8.547036316	8.243893802	8.28178522
NOA1	8.253063595	8.108446473	8.62424687	9.261162296	8.354847299	8.197964459	8.397147519	8.119533769	9.021476168	8.223122731	8.491041218	8.631725727	7.841196217	8.219998538	8.791497426	8.410780559	8.099892687	8.41115534
POLL	8.619909969	6.983464195	8.158521691	7.917062602	8.79001465	7.872471022	8.739101114	8.245502167	8.113966311	8.200201924	8.29928822	8.439156568	7.738546371	8.230565571	8.041082056	8.396690329	8.41594497	7.776478189
MAP8K8	7.831457543	8.435050455	9.270947825	8.31782931	8.158122654	7.978652864	6.807096435	8.465163887	8.401476848	8.09766904	8.169516057	9.934575034	5.282061247	8.512044608	8.407704252	8.588640977	7.98641964	7.776478189
FAM156A2	8.8959116919	9.185432559	8.786438738	8.386526246	8.445566176	7.719073584	8.550891131	8.100729098	7.74825455	8.252331208	7.676976268	8.53323698	8.17332933	8.005974004	7.698731661	8.030451252	8.28984855	8.935840773
NAXD	8.12502323	8.045847189	7.990237963	8.301156272	7.823857989	8.155548677	8.92455729	8.257915246	8.009290618	8.25914566	8.009290618	8.268421257	9.299889652	9.264612951	8.407251196	7.9191062	8.226218684	
CDC2C2	7.845908763	8.711458319	8.362289466	8.840105302	9.025537251	7.448268777	8.549028598	8.248008928	8.412941346	8.070944166	8.33378183	7.371731281	7.718727408	8.234187379	8.143272715	8.166131219	7.89095424	8.191978957
K19F18	8.073287841	7.874911406	8.329400911	8.266126725	7.733040453	8.182742606	7.977768343	8.235111032	7.977768343	8.345110941	8.431521293	7.033922425	9.950897744	7.225315264	8.345506877	8.547036316	8.243893802	8.28178522
NOA1	8.253063595	8.108446473	8.62424687	9.261162296	8.354847299	8.197964459	8.397147519	8.119533769	9.021476168	8.223122731	8.491041218	8.631725727	7.841196217	8.219998538	8.791497426	8.410780559	8.099892687	8.41115534
POLL	8.619909969	6.983464195	8.158521691	7.917062602	8.79001465	7.872471022	8.739101114	8.245502167	8.113966311	8.200201924	8.29928822	8.439156568	7.738546371	8.230565571	8.041082056	8.396690329	8.41594497	7.776478189
MAP8K8	7.831457543	8.435050455	9.270947825	8.31782931	8.158122654	7.978652864	6.807096435	8.465163887	8.401476848	8.09766904	8.169516057	9.934575034	5.282061247	8.512044608	8.407704252	8.588640977	7.98641964	7.776478189
FAM156A2	8.8959116919	9.185432559	8.786438738	8.386526246	8.445566176	7.719073584	8.550891131	8.100729098	7.74825455	8.252331208	7.676976268	8.53323698	8.17332933	8.005974004	7.698731661	8.030451252	8.28984855	8.935840773
NAXD	8.12502323	8.045847189	7.990237963	8.301156272	7.823857989	8.155548677	8.92455729	8.257915246	8.009290618	8.25914566	8.009290618	8.268421257	9.299889652	9.264612951	8.407251196	7.9191062	8.226218684	
CDC2C2	7.845908763	8.711458319	8.362289466	8.840105302	9.025537251	7.448268777	8.549028598	8.248008928	8.412941346	8.070944166	8.33378183	7.371731281	7.718727408	8.234187379	8.143272715	8.166131219	7.89095424	8.191978957
K19F18	8.073287841	7.874911406	8.329400911	8.266126725	7.733040453	8.182742606	7.977768343	8.235111032	7.977768343	8.345110941	8.431521293	7.033922425	9.950897744	7.225315264	8.345506877	8.547036316	8.243893802	8.28178522
NOA1	8.253063595	8.108446473	8.62424687	9.261162296	8.354847299	8.197964459	8.397147519	8.119533769	9.021476168	8.223122731	8.491041218	8.631725727	7.841196217	8.219998538	8.791497426	8.410780559	8.099892687	8.41115534
POLL	8.619909969	6.983464195	8.158521691	7.917062602	8.79001465	7.872471022	8.739101114	8.245502167	8.113966311	8.200201924	8.29928822	8.439156568	7.738546371	8.230565571	8.041082056	8.396690329	8.41594497	7.776478189
MAP8K8	7.831457543	8.435050455	9.270947825	8.31782931	8.158122654	7.978652864	6.807096435	8.465163887	8.401476848	8.09766904	8.169516057	9.934575034	5.282061247	8.512044608	8.407704252	8.588640977	7.98641964	7.776478189
FAM156A2	8.8959116919	9.185432559	8.786438738	8.386526246	8.445566176	7.719073584	8.550891131	8.100729098	7.74825455	8.252331208	7.676976268	8.53323698	8.17332933					

PHK2A	9.12194708	8.94296315	8.43893296	8.65672874	7.27158913	7.57416297	8.01639246	8.267402017	8.163240318	8.125206239	7.97336996	8.542354513	7.645469479	8.258869973	8.635459066	8.323597074	7.862097551	7.964034562
THOC3	9.155729298	7.315729298	7.847116924	8.563556275	8.30905336	7.936641456	8.323453861	8.178151503	8.16635886	8.100272512	8.22573735	8.327489814	8.470720047	8.506651166	7.77623779	8.139279251	8.195978749	8.332412585
FOCAD	7.804032495	7.685152011	8.588495939	8.589456521	7.57072286	7.01999807	8.26274504	8.680738663	7.574772023	8.686873554	8.005700558	7.814475531	6.70323878	7.80593335	8.508822809	8.994826679	8.495770698	8.387570698
NUPS8	8.176485646	7.87495826	6.909358873	8.4171744261	8.631354056	8.115785033	7.881166235	8.205515182	8.392681713	8.497285638	8.3946126	8.640037989	8.824307321	8.484190728	8.426613513	8.287378756	8.214931085	7.939364634
HSTJHZBK	8.319757381	8.106649047	8.106649047	8.106649047	8.43179324	8.39603516	8.43179324	8.18449456	8.27132326	7.915571788	8.33361204	8.20765027	7.95739797	8.21976837	8.21976837	8.1119635	8.137611981	8.137611981
PUM3	8.262515089	8.676401889	8.764014876	7.694314063	8.191848054	8.019716635	7.92004734	8.096313871	7.808000075	8.096313871	8.249313871	8.795301358	8.464153629	8.002130666	8.12439366	8.172907767	8.230917635	8.230917635
CMC1	7.75139821	9.234370442	7.436776666	8.964161174	8.68890596	8.52882309	8.181915445	6.736419141	8.235070324	7.937440661	8.014913697	8.853254114	8.152196062	8.784194411	7.95483061	7.937993918	8.083484104	8.562091217
MRRF	7.230979624	8.294729382	7.688528285	8.132828124	8.13120838	7.959306618	8.553957188	8.188390962	8.375850685	8.30424669	7.948783235	7.274552991	8.27783865	8.990116381	8.503361634	8.163407564	8.643898126	8.251051695
CCDC10	8.686471397	8.147371237	8.381207588	7.133457237	8.26839899	7.740318843	7.880851266	7.773564532	8.601807214	8.457520834	8.125598507	8.958949731	8.627786678	8.502651609	7.593497446	8.34706514	8.566545251	7.003073879
NUPS4	8.358702186	8.350742106	8.060838196	8.37421584	8.29510813	8.364258283	8.364258283	8.638243529	8.117833793	8.382350952	8.152557572	8.522377123	8.036470747	7.234914513	7.69895224	8.331274155	8.364069761	8.117022141
FAM13A	8.599746356	7.4104084591	8.060838196	8.37421584	8.29510813	8.364258283	8.364258283	8.638243529	8.117833793	8.382350952	8.152557572	8.522377123	8.036470747	7.234914513	7.69895224	8.331274155	8.364069761	8.117022141
BR71	8.383542222	7.974368083	8.262190991	8.262190991	8.262190991	8.262190991	8.262190991	8.262190991	8.262190991	8.262190991	8.262190991	8.262190991	8.262190991	8.262190991	8.262190991	8.262190991	8.262190991	8.262190991
RAB7	8.474143967	7.740501658	8.31143473	7.926863858	7.695638816	8.469553497	7.896908966	8.157660985	7.973467884	8.603632574	8.521809336	8.480011019	8.058341651	8.251578896	8.354770087	7.180703932		
METL10	7.037885646	8.788158833	8.23190827	8.406042604	8.02975744	8.295121392	7.99442266	7.695449204	8.211511314	7.99064276	8.237591152	8.416617244	7.45062181	7.565700253	8.37273147	8.187148793	8.152302882	7.689698954
GLTSR12	7.638211257	8.452321165	8.905590541	8.24912073	7.91520934	8.07317521	7.689580196	7.525296174	8.45008567	8.7708265	8.12048612	8.23470155	8.14433011	8.736354704	8.129857029	8.19632804	8.270844896	7.993708698
ANKR1D	8.834189971	8.127157488	8.133540449	8.306874324	8.271364447	8.04562839	8.949096257	8.546216568	8.335976611	8.317667592	8.055636783	8.299656026	7.946747715	7.63729922	8.135113244	7.992373761	7.96382699	7.835741899
MED21	8.08250664	8.0946521	8.68923908	8.072231284	8.249465027	8.9569195	7.793560217	8.013696451	8.498362407	7.902582622	8.157660985	8.869117866	8.726932617	7.958881489	8.217524663	8.189242366	8.02085941	7.846445467
TAPT1	8.094968416	8.383514874	8.56849148	7.372320561	7.372320561	7.372320561	7.372320561	8.474015994	8.210166378	8.39292376	7.941236948	8.038250729	8.605852306	8.196138405	8.536187004	8.5571869	8.251708369	7.988476023
RANBP9	8.305675983	7.97469898	8.115651113	9.128405561	7.63261465	8.627567279	8.637791717	8.220895728	8.054175291	8.125875822	8.456292919	8.018452835	8.899714063	8.520455033	8.189109387	8.030061223	8.06437218	7.904260778
TMEN11	8.28334219	8.780389848	7.913306948	7.952632145	8.437421123	8.256140109	8.094136629	8.205687401	8.131287011	8.131650412	8.146885486	8.198450716	7.36967042	8.848097765	8.097234183	8.27158336	8.122616604	8.72154016
STAR3DL	7.634513084	7.733290942	8.393391444	8.20398244	8.393391444	8.20398244	8.393391444	8.393391444	8.393391444	8.393391444	8.393391444	8.393391444	8.393391444	8.393391444	8.393391444	8.393391444	8.393391444	8.393391444
CAD	8.28291756	8.120144983	7.69862717	8.86571424	8.517575996	8.090997429	8.437979756	8.211856136	8.1605285	8.1605285	8.738376396	8.189530881	6.34408593	8.11171188	8.526520166	8.327940193	8.685056402	8.788598631
SETD4	8.620641416	9.233887305	8.595821465	7.848928834	8.426218468	7.976598406	7.559605367	7.714958156	8.530114216	7.863620396	7.739038839	8.631145697	9.33715944	6.896497025	7.73089167	8.202137957	8.198942914	8.503071311
MRPL12	8.113068296	7.832438645	8.548699423	8.311909077	7.952269722	8.308111597	8.170680896	7.996015211	8.467884023	8.441838272	7.796015211	8.467884023	8.441838272	8.032017463	8.09425893	8.023519091	8.354003097	
PTER	8.276210303	7.866490609	8.800331344	8.378119439	8.204087768	8.303113397	8.482703536	8.482703536	8.235197536	8.191470342	8.312168441	8.470184329	7.486020215	8.311821666	7.97982959	7.950462099	8.193024565	8.078807947
WRD20	7.719164039	7.596360418	7.766743949	8.310997459	7.866785899	7.989517225	8.339916676	8.124572742	8.824759095	8.259545066	8.131473208	8.366922225	8.209511019	7.940819801	8.151026764	8.331372617	8.322025866	7.845755432
TRACP11	7.770037993	8.081676661	7.105899312	8.289977271	7.875718477	8.038482702	8.736885074	8.10568068	8.490135008	8.39464884	8.564731666	8.063621664	6.413155977	8.317109852	8.30572279	8.654367923	8.54452332	8.54452332
SHAC3	8.28334219	8.780389848	7.913306948	7.952632145	8.437421123	8.256140109	8.094136629	8.205687401	8.131287011	8.131650412	8.146885486	8.198450716	7.36967042	8.848097765	8.097234183	8.27158336	8.122616604	8.72154016
KPNAS	9.52395549	7.29892059	8.309060163	8.60252375	7.39757596	8.34043642	7.547351989	8.60412089	9.235601505	8.30489295	8.193695149	8.788136142	8.929044298	6.518739648	8.200179756	8.374019752	8.374019752	8.192350009
IL7RA	8.498969078	7.944270004	7.61499415	6.976917327	8.38821181	7.410160212	8.682584147	8.119000481	8.299948191	7.532615159	8.282718035	8.265654279	8.52793616	8.302573491	8.403753828	8.06730801	7.36442075	8.126629642
ELP6	8.728729166	8.212466906	8.122616606	7.97829166	8.165324454	8.504803803	8.165324454	8.735440472	8.303551622	8.05320847	8.178927786	7.731738277	8.507611013	8.324771073	7.743058388	8.265385622	8.123716046	8.32407019
ANKRD27	8.094919757	9.26130877	6.62346602	8.059310359	7.900073451	8.174408593	8.412284764	8.342993317	7.917624466	8.070772913	8.155862416	8.162773086	8.04211611	8.887387555	8.689697321	8.602727024	8.316062427	8.15973287
BLOC152	8.310394653	8.07530918	8.854161346	7.860871031	8.553931559	7.61537846	8.118813465	8.233563735	7.974070483	8.242414088	8.073710683	9.26795202	8.155316642	8.088355495	8.25531561	7.772002308	8.346103628	
MTR	8.772173798	8.885132833	8.703646334	7.783799951	8.742031422	7.997771718	7.990541738	8.344426978	8.126128678	8.595897105	7.986649134	7.964698816	8.193768441	6.880168807	8.293713198	8.740051621	8.919502685	8.241189985
SHAC1D1	7.22277487	7.435290942	8.393391444	8.20398244	8.393391444	8.20398244	8.393391444	8.393391444	8.393391444	8.393391444	8.393391444	8.393391444	8.393391444	8.393391444	8.393391444	8.393391444	8.393391444	8.393391444
UXB7	8.472215239	5.641688546	6.919655142	5.470212329	7.415768248	7.415768248	7.415768248	8.245619747	8.163174009	8.430764474	8.245619747	7.11175388	6.430764474	8.104965142	8.917757329	8.058665121	8.362458484	
SLC27A	8.098049001	8.552737399	8.304672124	8.546401353	8.170044618	8.572464552	8.544889244	7.82168105	8.782417182	8.12597554	8.64069237	7.603919467	8.215948352	7.901912142	6.80175862	8.03040033	8.273521	8.180205843
CZF326	8.567375075	8.367554155	8.265801541	7.65545155	6.333869218	5.839437361	6.26425595	8.296775831	8.027728184	8.380593739	8.119974612	8.118802134	7.607538412	8.581096373	8.613459657	8.50367004	8.28163317	8.549119835
ATRN	7.514680415	7.081642718	8.220218745	8.894158319	8.167460748	8.592781022	8.506891394	9.068472203	7.75233748	7.751064419	8.604081983	8.141668558	8.277648217	9.038113012	9.138082702	7.65329313	8.217751953	8.959636298
TAJF	8.164564331	7.73474929	8.098758431	8.098758431	8.508285073	8.150871182	8.590395959	8.806576685	8.503788665	8.503788665	8.44479949	8.612825608	8.672197156	7.903473109	8.161799335	8.325996695	8.160210247	7.838700747
CCZD1A	7.904847208	6.232584949	6.635500788	7.29807317	8.110205108	8.187079178	8.589115173	8.139742363	8.134690834	8.225806845	8.23014263	8.017195389	8.510025788	8.085671472	8.297170091	8.197218754	8.37428035	8.849427737
LAMP5	8.081770738	8.635500788	8.180268985	6.629675256	5.440057005	8.224769653	8.191398492	8.247796653	8.014135167	8.454579871	8.187527926	8.159825828	8.15982					

FAMS2B	8.087796351	8.218874262	8.415749129	8.307562671	8.610327606	7.963696016	8.365999358	8.259213634	8.797085888	7.620321833	8.115154043	8.586789063	7.797055257	7.420815733	7.845161997	8.383877507	7.98801033	8.053904625
MY09B	7.901552322	7.204382586	8.409375511	7.605729899	8.167209966	8.033761991	8.166054085	8.774657888	7.7469284	8.373465907	8.25610447	8.064133457	8.024980694	8.75738898	8.951928063	8.189074721	8.702645893	8.547267632
ACT9A	8.154052076	8.803793365	8.803793365	8.803793365	8.803793365	8.803793365	8.803793365	8.803793365	8.803793365	8.803793365	8.803793365	8.803793365	8.803793365	8.803793365	8.803793365	8.803793365	8.803793365	8.803793365
SPIN2C	9.286159738	8.576302625	9.298163176	9.410588289	7.573401737	8.068796025	8.447363972	6.659274065	8.685566652	6.097691234	6.932342735	7.897856677	8.262212646	9.214126018	6.683360693	8.865942883	7.185291299	9.201246699
MTM10B	7.673966436	7.641016252	8.633436056	8.154077006	7.092317363	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006
SC39A11	7.552637864	8.342445368	8.342445368	8.342445368	8.342445368	8.342445368	8.342445368	8.342445368	8.342445368	8.342445368	8.342445368	8.342445368	8.342445368	8.342445368	8.342445368	8.342445368	8.342445368	8.342445368
ARHF2E	8.167378113	8.37990142	8.082986035	8.265699964	9.250737562	7.834072204	8.274635594	8.303324762	8.717563363	8.156292265	8.240219187	9.738411229	8.484698319	8.242087529	9.933408375	8.077019871	8.105205451	8.741753736
SIGIR	8.269573881	8.493338381	8.249116901	8.182119669	8.795711352	8.175025262	8.374863321	8.789058879	8.098546099	7.993303342	8.156400559	8.102660627	8.175514663	7.967721528	7.682884962	7.892219042	8.014940286	8.183104013
RWDD2B	8.866084659	7.93530944	8.163816696	8.33417431	8.455183603	8.937095533	8.620314788	7.680775575	8.295100472	7.866113682	7.762319179	8.656602629	8.149735727	7.757082278	8.734536683	8.360708314	7.897561020	8.162797772
UTP14C	6.529709456	8.187280254	6.529709456	6.529709456	6.529709456	6.529709456	6.529709456	6.529709456	6.529709456	6.529709456	6.529709456	6.529709456	6.529709456	6.529709456	6.529709456	6.529709456	6.529709456	6.529709456
GAMC	7.964002076	8.439392617	8.22989168	8.22989168	8.22989168	8.22989168	8.22989168	8.22989168	8.22989168	8.22989168	8.22989168	8.22989168	8.22989168	8.22989168	8.22989168	8.22989168	8.22989168	8.22989168
RC2T	8.211080817	8.67702064	8.092805603	8.809482306	8.148265285	7.580528497	8.379534732	7.8003738	8.111035818	8.106343181	8.076493181	8.578781072	8.529304202	8.797772012	8.153662218	7.750596682	8.901904873	8.17117752
BE5	6.658022666	6.50052572	8.697706366	7.20180345	9.339618884	8.691943089	8.31281401	9.825247286	8.62599807	6.92161104	8.032972204	9.709815234	8.005805825	5.902740088	5.939520805	8.301748445		
BLOC1S1	8.318588223	8.189526595	8.471711586	8.196798614	8.116451408	8.511845056	8.142645594	8.173829725	8.164526061	8.15967479	8.084929889	8.27680435	8.145749999	7.853046252	9.737237308	7.841286632	8.035536852	8.296056376
RAD1	8.195866933	7.9856673	8.173275341	8.508437414	7.93644451	7.954828123	8.239091227	8.056846276	8.456124002	7.990597763	8.077089797	7.914538264	8.21397419	7.94668301	8.36642746	8.784472696	8.150090672	8.14500337
CK2PA1	8.140229744	8.022753746	7.805056481	8.182275348	8.431261733	8.324698923	7.7742398	8.070615924	7.75319361	7.443697841	8.335062187	8.038618018	8.462076775	8.058625289	8.246829686	7.328228846	7.535267899	8.391223378
RSRC1	8.787409857	7.365537002	7.93039888	7.664477649	8.600746739	8.512463667	7.820809551	8.172492434	8.150192769	8.143197937	8.460671524	8.149753544	8.479735208	8.26493722	8.285784062	8.547919694	8.121301945	
MRP9	8.258862894	8.307263556	8.22894679	8.308534535	8.36465792	8.72551902	8.325405644	7.68506446	8.390837703	7.948788225	8.012680306	8.360632236	8.099091887	8.66818449	7.711342656	8.078322529	7.872188133	7.909892919
ZMF5A	8.154419881	8.03031741	8.280473715	7.534274224	7.345647903	8.712621058	8.235698837	8.366672817	8.370627897	7.606631668	7.735979037	7.175961863	8.585671746	7.966028824	8.336837573	8.089181087	8.166296333	8.192290879
FAM12ZA	8.186807888	8.739985511	7.883152568	9.052214349	8.753577253	8.393977233	8.096640074	8.417073443	7.991694661	8.162826776	8.240025674	7.08344258	8.134070095	7.965116097	8.086714847	8.075058889	7.187768146	8.037744377
AB09	7.682390585	7.947810587	8.881294889	8.260973838	8.680267975	8.459609387	8.02510725	8.201861384	7.884862396	8.057592167	8.08575594	8.01785963	8.022140062	8.386583957	8.327355901	8.26272717	9.005533374	8.511425442
TRWCA	8.421946648	8.299116328	8.336779294	8.11981292	8.782578714	8.503735503	7.892602084	8.087081327	8.057575394	8.01785963	8.022140062	8.386583957	8.327355901	8.26272717	9.005533374	8.511425442		
ERL1N2	8.215372683	8.532239899	8.210873914	7.871728143	8.062662972	9.030667731	8.203141937	8.16703057	8.152144031	7.969292536	8.392457699	7.728333824	8.884714966	6.879446529	7.451526275	8.482684776	7.695443536	7.899667774
VASP	8.406403282	8.238541378	8.277097315	8.446403948	8.073076085	8.541491607	8.727458939	8.105243494	8.13615342	8.05243494	8.180144581	8.097188019	8.214247211	7.941846735	8.055255568	8.097233006	8.251121282	
EZH1	8.03727181	8.264750303	7.189189494	8.284369415	8.099578669	8.126254736	7.98620622	7.138224554	7.9687313	8.446839513	7.932458049	8.933311467	7.006926321	6.684601125	8.287703421	8.177193506	8.507441797	8.599478456
LRIG2	8.193764264	6.967198632	7.91478632	6.967198632	6.967198632	6.967198632	6.967198632	6.967198632	6.967198632	6.967198632	6.967198632	6.967198632	6.967198632	6.967198632	6.967198632	6.967198632	6.967198632	6.967198632
RNF2	7.921822643	7.660845883	7.711597769	8.162377727	6.85410622	8.186295754	8.254124138	7.79061408	8.154653113	7.800759435	8.166353061	9.19139624	8.15952142	8.91429196	8.300938448	8.171024642	7.603126637	8.193830178
MTM10B	7.673966436	7.641016252	8.633436056	8.154077006	7.092317363	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006	8.154077006
ZNF548	8.395562545	8.799562545	8.799562545	8.799562545	8.799562545	8.799562545	8.799562545	8.799562545	8.799562545	8.799562545	8.799562545	8.799562545	8.799562545	8.799562545	8.799562545	8.799562545	8.799562545	8.799562545
C19orf12	7.953029505	7.877031555	7.591491959	7.862942363	7.707147743	8.444235826	7.72411484	8.388955471	8.329951772	8.424206154	8.103138776	8.084343468	7.599165807	8.902511385	8.34827719	8.243837324	8.429890908	8.102146186
FXB04	8.806401058	8.273620887	8.659598181	8.226357933	7.778121987	7.792673178	7.778121987	8.522192976	8.262025584	7.88322937	8.47697084	8.132650434	8.689881283	7.877832642	8.180923924	8.426235948	7.842633508	7.72174196
CSorf22	8.324984066	8.000997367	9.154507987	8.202271647	8.110563885	8.412712270	7.820998033	7.75408525	8.28239112	7.748007625	8.486298429	9.253718272	8.445736177	7.792399211	8.064511932	7.792314522	8.380102692	7.84846176
CN3	7.896723264	8.39812452	8.39812452	8.39812452	8.39812452	8.39812452	8.39812452	8.39812452	8.39812452	8.39812452	8.39812452	8.39812452	8.39812452	8.39812452	8.39812452	8.39812452	8.39812452	8.39812452
SLC16A	7.725100567	8.613544566	6.498962229	6.498962229	6.498962229	6.498962229	6.498962229	6.498962229	6.498962229	6.498962229	6.498962229	6.498962229	6.498962229	6.498962229	6.498962229	6.498962229	6.498962229	6.498962229
CDX10	8.480326899	8.480326899	8.480326899	8.480326899	8.480326899	8.480326899	8.480326899	8.480326899	8.480326899	8.480326899	8.480326899	8.480326899	8.480326899	8.480326899	8.480326899	8.480326899	8.480326899	8.480326899
NSU6A	7.997477488	8.947740056	8.687102923	8.687102923	8.687102923	8.687102923	8.687102923	8.687102923	8.687102923	8.687102923	8.687102923	8.687102923	8.687102923	8.687102923	8.687102923	8.687102923	8.687102923	8.687102923
ANKK1D-E1F	8.469840315	9.17987381	9.017380133	8.302800664	7.064215819	8.319640085	7.28535687	8.132541482	8.028611053	8.174184859	8.203210831	8.339944062	8.963383725	7.683466053	7.960455437	8.264114568	7.911727256	7.681946821
RHN01	8.456302035	8.570549786	8.472695002	8.838567559	7.12365377	6.587866449	8.322835348	7.965223214	8.016319908	8.038503382	7.834734612	7.819597708	8.27948337	8.154566977	7.64282141	8.214328364	8.152119056	8.105394232
ASS1	9.25628972	8.06499736	9.1531628	8.694584718	9.000559303	8.082976025	7.88300088	8.417505497	8.497120865	7.410299098	8.486459803	7.599182012	7.249349083	8.22118331	7.297607016	7.795764342	7.131231401	8.524461848
DVLL	8.153513193	8.369914999	8.369914999	8.369914999	8.369914999	8.369914999	8.369914999	8.369914999	8.369914999	8.369914999	8.369914999	8.369914999	8.369914999	8.369914999	8.369914999	8.369914999	8.369914999	8.369914999
RC0R3	8.065703771	8.31794102	8.509195969	7.622855794	7.035268447	6.918685623	8.370026020	7.166604273	7.681037066	8.34076208	7.98718983	8.103835419	7.010390324	8.218301126	8.242866552	8.328699178	8.178117051	8.416702727
CDCA47	8.043638477	8.200399614	6.473995655	6.888644849	8.174302841	8.174827077	8.70570999	8.625925014	8.19534612	8.157174461								

MUM1	7.96113799	8.779898391	8.508881942	8.73076577	7.795439343	7.528492665	7.597092924	8.300545967	7.818371059	8.35444617	7.956033787	8.043156921	8.222684555	9.387986763	8.315698911	8.014315017	8.350986949	7.837796263
WDR9	8.790298987	8.927638452	8.129632107	8.575459858	7.428357034	6.189642132	7.982966631	8.324544416	7.490464407	8.219073207	7.309745373	7.090444516	7.979677974	6.25832626	6.258724855	8.468111687	8.971960701	8.135438483
MTR	7.619376217	6.691802894	7.35892807	8.042048179	6.93087842	8.607962097	7.490153056	8.164725651	7.520542081	8.852817208	8.157815765	8.100245438	6.192999992	8.329074651	8.192765972	8.393953723	8.19694515	8.179257873
NLL1	8.13120765	8.201576571	8.373551996	8.168087236	8.790688779	8.580696828	7.860723547	8.29997112	8.132173178	7.758521594	8.182592013	8.341085059	7.96418314	8.422482683	7.726090554	8.132250771	7.93431583	7.649307561
NCA1	7.440956744	8.433952276	8.385022346	8.439892375	7.63392527	8.469152799	8.20931242	8.344538441	8.344538441	7.941330938	8.78111632	7.973024598	6.80277237	8.154715519	8.146279794	8.07240767	7.916086992	7.39987876
B3GAL16	8.225409175	8.302070795	8.509720055	8.790924474	7.890697554	7.681187256	8.099112893	8.087232052	8.08277788	8.182592013	8.182592013	8.182592013	8.182592013	8.182592013	8.182592013	8.182592013	8.182592013	8.182592013
ZNF7	8.02188134	8.358446771	8.618843406	8.587549711	8.412726560	8.737287384	8.51031869	8.099886040	8.060900531	8.194753678	7.880693264	7.815148716	7.64915468	8.412063408	8.079261096	8.159097443	8.434420440	8.256038607
PCN3	8.44753244	8.786412673	8.187157519	8.107395019	8.152306996	8.86191795	8.334429685	8.312095904	8.312095904	8.32574641	7.588239222	7.682602698	7.569661534	8.417860037	8.097528488	8.534388732	8.177996373	
CKR3	7.640693203	8.089455288	7.725973375	7.648050333	8.205739946	8.176417756	8.082842433	7.780494106	7.72453724	8.931685379	7.946754553	8.809410371	8.804270801	8.329359504	8.597691471	8.171266199	8.843529321	8.638852875
SLC46A1	8.436052492	8.884641708	8.799546032	8.544875118	8.476234238	8.131037921	8.104506661	8.352206349	8.046666114	8.312696652	8.551413701	7.569906267	8.059975723	7.925477719	8.660302869	8.718405155	8.196963137	8.250685497
WDR3	8.488982946	8.049406392	8.584875118	8.039623006	8.404513648	8.71477711	8.598602259	7.064944441	8.368482444	8.806741194	7.7262626	8.199898988	7.965525266	7.933444444	5.933050311	8.300715736	8.314891098	8.23902352
USF1	8.05746133	8.134668965	8.456689665	8.456689665	8.456689665	8.456689665	8.456689665	8.456689665	8.456689665	8.456689665	8.456689665	8.456689665	8.456689665	8.456689665	8.456689665	8.456689665	8.456689665	8.456689665
ATP	8.042086771	7.466689665	8.359043226	7.047789449	7.047789449	7.047789449	7.047789449	7.047789449	7.047789449	7.047789449	7.047789449	7.047789449	7.047789449	7.047789449	7.047789449	7.047789449	7.047789449	7.047789449
ASXL2	7.732648433	7.548841501	8.025021802	8.734175782	8.695953077	8.067531852	8.508367747	8.401438083	8.188740277	8.425291624	8.492624564	7.970007553	7.504603087	7.56543947	8.245246195	8.20935679	8.672754901	7.710295848
CAAP1	7.924887344	7.122913049	8.189343756	8.400829654	8.674235007	8.123450547	8.950845368	8.412906858	8.412906858	8.46247894	8.167670671	8.018380021	8.324242883	7.819729285	7.9041535	7.921355313	7.915194539	8.480494267
KLF11	8.54431255	8.869689933	7.908421896	8.510066373	7.696712387	7.519094695	6.299155695	8.589974132	8.484105375	7.951902876	8.638478251	7.732935658	7.043303327	8.280508771	8.560567889	8.27236849	7.981619575	7.824154867
MTRM3	7.939167985	8.53199004	7.797928141	7.939167985	7.797928141	7.939167985	7.797928141	7.939167985	7.797928141	7.939167985	7.797928141	7.939167985	7.797928141	7.939167985	7.797928141	7.939167985	7.797928141	7.939167985
CAB_2	8.281584204	8.615628661	7.161338969	7.829086625	7.947637899	8.366595934	7.832060394	7.970348666	9.039119738	7.611041382	8.777989883	8.356541125	7.944003023	8.286552729	7.834485406	9.243160277	7.535919269	8.75792869
RB28	7.514947222	7.56713894	8.517723168	8.770694638	7.881728464	8.356595499	7.784093096	7.847912389	7.784093096	8.785292168	8.78669481	8.686451474	8.165908396	8.466713851	7.889034879	8.403170304	8.7899424	
HMT3	8.081261210	8.093076724	8.266605072	8.019192410	8.781037739	8.165970007	8.53370792	8.329274004	8.136876162	7.74263564	7.680570747	8.489190796	6.143128807	8.093176131	8.113295809	8.272499663	8.20786213	8.682474629
NPTM	8.766076841	7.731545222	8.646007488	8.400458922	7.890353385	8.060168778	8.055083247	8.733969327	8.733969327	8.181411742	8.266213005	7.847532323	8.920113906	8.047162132	8.06579699	8.017789815	9.03517901	
DALR3	7.906870719	8.059579964	8.315661274	8.385942067	4.846557739	7.961459363	8.004582198	8.671517597	8.038178729	9.292395486	8.326678841	7.919363843	8.075773425	6.290526756	8.26146142	7.852724097	8.752524097	
R3HC11	8.139113639	8.55747449	7.983073643	7.395900852	7.67576731	7.717009407	8.449490919	7.829011546	8.395346046	7.888172806	8.191517907	8.22031242	8.43583971	7.465091347	8.260018886	8.044325117	8.183917988	8.107021002
RP38	8.535801609	8.950126189	8.468180744	8.014839754	8.332674375	8.188002205	8.1095484236	8.1095484236	8.1095484236	8.1095484236	8.1095484236	8.1095484236	8.1095484236	8.1095484236	8.1095484236	8.1095484236	8.1095484236	8.1095484236
HMGCL	8.598241237	8.408487094	8.498663505	8.498663505	8.498663505	8.498663505	8.498663505	8.498663505	8.498663505	8.498663505	8.498663505	8.498663505	8.498663505	8.498663505	8.498663505	8.498663505	8.498663505	8.498663505
ZMAT2	7.78650222	8.058818227	8.209680828	7.96013708	8.341523586	8.107678371	8.336600808	8.002340198	8.328754791	8.07665594	8.161823658	8.546597063	8.469783764	8.819447002	7.815770918	8.125308522	8.786795472	8.189466511
FAAH	8.024517284	6.831691284	8.564166581	8.566293432	7.19144468	7.950738499	8.789728255	8.7946111	7.981285439	8.25444655	8.174791911	7.485839514	8.396846026	7.754923181	9.074402895	7.554112026	8.126651644	8.120674772
NCA1	8.300715501	8.400715501	8.300715501	8.300715501	8.300715501	8.300715501	8.300715501	8.300715501	8.300715501	8.300715501	8.300715501	8.300715501	8.300715501	8.300715501	8.300715501	8.300715501	8.300715501	8.300715501
SEC2C	8.045715101	7.789653866	8.318901678	8.318901678	8.318901678	8.318901678	8.318901678	8.318901678	8.318901678	8.318901678	8.318901678	8.318901678	8.318901678	8.318901678	8.318901678	8.318901678	8.318901678	8.318901678
MMAB	8.458014589	7.193049589	8.484312304	8.204105069	8.551429053	8.229264664	7.560303667	7.778653732	8.249391964	7.64871308	8.150514422	8.311250879	7.72150879	6.579212432	7.706076222	5.77737512	8.28634319	8.091740994
RNMT	8.160492772	8.253259177	8.68943275	7.88670231	6.313532245	8.042240906	8.09002298	7.726711109	8.095731683	8.134425869	8.095731683	8.134425869	8.095731683	8.134425869	8.095731683	8.134425869	8.095731683	8.134425869
TIMP2	8.214657022	8.835747193	8.296860588	8.68421696	8.02376597	7.65007302	8.3881149	8.438266314	8.464554935	8.563670133	8.073513302	9.64343285	8.001380878	7.763450545	8.166305869	7.980274666	7.75125913	
VHL	7.48756222	8.486544882	8.165651046	7.726091122	8.138905616	8.138905616	8.138905616	8.138905616	8.138905616	8.138905616	8.138905616	8.138905616	8.138905616	8.138905616	8.138905616	8.138905616	8.138905616	8.138905616
SEMA8B	7.962502787	7.967883741	8.849097154	7.095959391	8.036322547	7.728493353	8.388849587	8.120771322	8.583175451	8.275866694	8.023568669	8.292610078	8.0563732	8.839924449	8.113971128	8.740259329	8.055793258	9.2516988
FAN1	6.432954098	8.503294989	8.194009797	6.533788997	6.533788997	6.533788997	6.533788997	6.533788997	6.533788997	6.533788997	6.533788997	6.533788997	6.533788997	6.533788997	6.533788997	6.533788997	6.533788997	6.533788997
EPN1	8.392656508	8.423973722	8.789654487	8.789654487	8.789654487	8.789654487	8.789654487	8.789654487	8.789654487	8.789654487	8.789654487	8.789654487	8.789654487	8.789654487	8.789654487	8.789654487	8.789654487	8.789654487
PARP9	8.422607443	7.666185237	5.899356068	8.013325841	8.188200109	8.19440674	8.148523307	8.4074312	8.015014218	8.379673601	8.329794236	8.083591765	7.428127461	7.87171504	8.617108146	7.899066963	8.537469469	8.4003087
PIG3	8.137418811	7.827281798	7.834742791	8.172881078	8.094106048	8.398366066	8.490301334	8.384913053	8.625110862	8.069661133	8.314321779	7.697596038	6.95871934	7.078582529	7.985325117	8.236538443	8.354813743	8.16651192
WDR3	7.567899284	8.888519838	7.913788664	7.714041829	8.996713228	8.966275918	8.473026667	7.731179991	8.292864614	8.152512271	8.078446344	8.583435552	5.670564321	6.794916524	7.174465544	8.194301699	7.982147411	8.124990337
ZBT4A	6.638027235	7.958438428	8.224183273	7.590808001	9.036308888	8.401740536	8.191879777	8.131493653	8.191879777	8.131493653	8.191879777	8.131493653	8.191879777	8.131493653	8.191879777	8.131493653	8.191879777	8.131493653
PEK6	5.717342288	8.864927019	8.018991861	8.079280997	8.275036277	7.635417048	7.005167647	7.666041095	8.371975264	8.301979639	7.962360914	7.582488171	6.012498017	8.626292924	7.846294067	8.339790684	8.402004241	7.747560721
RHBDD3	8.481396754	8.503155883	7.112418387	7.946167019	8.428028621	8.049653079	8.086525127	8.340664194	7.92844115									

DVL2	8.075057084	8.260129554	8.675227225	8.011796849	8.056671955	7.484219919	8.00411127	8.037329071	8.26805116	7.893993786	7.935289175	8.605790197	8.185746715	8.350697863	7.959419544	8.193633233	8.054000902	7.714601517
TADT01	8.259137644	8.515624311	8.068951629	8.89498619	8.24136717	8.270481105	7.723487344	7.387521133	8.232981246	7.95273401	8.04124528	8.168913031	7.596880115	8.143361466	7.429677407	8.234637891	8.023425294	7.959583161
DFFA	8.539045749	8.510345749	8.024664429	8.963175117	8.7047461821	7.551910891	8.932329034	7.953118005	8.167174684	8.062279762	8.364194329	8.641191073	8.12575136	8.082720146	7.6334003	8.148389077	8.37172459	7.906649207
RF1	8.37677864	7.761700497	7.084387	7.09663881	7.414128787	8.17774348	8.649456164	8.323953264	8.243458008	8.236504076	8.019022321	7.659564266	8.087819446	7.704643188	8.163448819	8.102422161	7.866405299	8.461137955
ZNF24	8.297928374	8.252676	8.252676	8.297928374	8.11364105	7.84140005	7.80476629	8.305736179	8.19031915	8.09019115	7.719175149	7.69240657	6.7271227	8.2329949	8.760709471	8.760709471	7.995295414	8.693044088
TS5E4	7.717454312	8.150004772	8.150004772	8.150004772	8.622118415	8.452402848	7.950126292	8.047829279	8.026277178	7.824285911	8.196056877	7.885136963	8.157655522	7.962770461	8.058234191	8.036433894	8.263131984	8.279345454
ZNF26	8.566672088	7.952691633	8.566499224	8.269713916	8.1640485	8.205436104	8.311525345	8.066795317	7.750126643	7.832271883	7.582720659	7.951624854	8.038114219	8.138629464	8.133149667	7.962967434	7.629189283	7.408555557
NIFK	8.140674449	8.365410355	8.436186643	8.465113015	7.779473559	7.691253118	8.118906499	7.44531799	7.82446326	7.766850449	7.50771001	8.180139825	8.338825182	8.671968211	7.37676789	7.755302083	7.78142182	7.93651594
HCCS	7.882384643	7.455195666	8.17337374	7.788336619	7.10925321	6.947679752	8.201710244	8.288883099	7.968615014	8.061282841	8.20197902	8.676923784	7.992635499	8.68761044	7.463296494	8.097625476	8.041951377	8.857132398
UOCC1	6.624748823	7.658648209	7.914180971	8.115157528	7.914931332	7.580298537	8.571821374	7.998402568	7.880216682	8.226202254	7.75775126	8.136133583	8.050786316	8.612482505	8.051150395	8.13483015	8.041295948	8.352139731
PVM1	8.981510413	8.158257747	8.48331551	8.033505786	8.48331551	8.033505786	8.30593791	7.426572252	8.068160357	7.649597636	6.759952852	7.7075358	7.515386292	8.267950039	7.484281303	8.080788296	7.559250175	7.882575787
NAT10	7.70439898	8.45714641	8.79066761	8.10423212	8.879287663	7.43314032	8.064529132	8.246951374	8.178719507	8.068827218	8.599242594	7.102091042	8.334230523	7.328283258	7.994567862	7.799104697	8.036842116	8.002320214
CI10F6	8.06499986	8.359476267	8.402192928	8.300397478	8.584014974	8.35901794	7.823510502	7.863093359	7.946182768	8.557741878	8.613925714	8.105515755	7.553940274	7.718824369	7.765316178	7.655615		
IPK1	8.682139398	8.030255667	8.906192184	8.363206871	8.162266671	7.236979112	8.246646105	7.79312998	8.089019885	7.882361127	8.067447478	8.238690767	7.674578718	8.584951515	7.582064852	7.997552044	7.869500366	8.262031559
ATPI	7.781859349	8.109590021	8.146224802	8.29580562	8.314730205	8.6471162	8.298933411	7.652020193	8.068412077	8.183166626	8.095387523	7.827864199	8.170659314	7.30312029	8.028597033	7.67596303	7.654264122	8.614738621
ZCCH8	7.463142497	8.001267571	7.762254016	8.007813087	8.51087768	8.074106225	6.385365174	8.050588849	7.659848916	8.10302994	7.589407738	8.203236351	8.930768836	7.327114874	8.21178945	8.043888492	8.356707357	8.600531563
BRD9	7.632540263	7.113963346	8.435615042	8.046249912	8.046249912	8.046249912	8.046249912	8.4629154	8.244048396	8.013217396	8.084169332	8.367109733	8.097086505	8.384569023	7.635087292	7.895320344	8.028434334	8.048719174
CNNM2	7.956702177	8.017709985	8.068676043	7.530073713	8.272277928	8.29912026	8.289257658	7.744939366	7.932479331	7.825124023	8.308305237	8.025722656	8.115160286	7.86285424	8.294127502	7.81789355	8.289101731	7.910828414
AMPZ3A	8.190338869	8.468537748	8.183607313	8.1496510225	8.495309287	8.141996536	7.989776847	7.828348793	8.06410778	7.863809256	7.828348793	8.06410778	7.863809256	8.030267038	8.177579319	7.670356935	7.760736041	7.71753983
CEPRL	7.90762379	8.321748276	8.517756105	7.466601216	8.173277705	8.20012835	8.170616785	8.456426466	7.852932079	8.042256707	8.042256707	7.89942332	6.69234443	8.857278053	7.653453934	8.357789245	8.050994041	8.18929666
SCAMP5	8.330271989	8.239021905	8.239021905	7.51343496	8.12709857	7.96500406	8.503016136	8.638565075	7.912532702	7.904438811	7.86361809	8.151178086	6.782546232	8.160472034	8.352629498	7.558019267	7.579002074	7.48522838
LAMZL1	9.06681976	7.937843421	8.197532885	9.067465258	8.91857247	8.280874268	8.382883821	8.047514738	8.004267052	7.979444472	7.979444472	8.96341397	7.218528962	7.816296841	7.421623663	7.78286700	7.947099058	7.487733485
HERC4	8.794278976	7.796807572	7.687138954	8.040442329	8.489810073	7.900515026	7.574594028	8.202956228	7.801318468	8.451671341	8.04700848	7.625153474	7.739159469	7.646444109	8.211998465	8.575992182	8.583993044	8.687199388
PPDF	7.765830064	8.045361466	8.07723558	8.303772626	8.033086802	8.356216529	8.233441951	8.033086802	8.713875184	8.829334645	8.139895141	8.05001047	8.439608719	7.849567315	8.05587196	7.582661675	7.224049828	
SLC39A	8.901216925	7.896383644	8.085295233	8.330180145	8.121476432	8.314723305	7.946258519	7.848638212	8.04667422	7.775810239	8.042401342	8.115909558	8.03105207	8.044984899	7.89751958	7.647309739	7.541397281	8.20517033
MGA2	8.657835978	8.25439376	7.859449335	7.019782137	8.545184551	7.83811068	8.0465609376	8.003822627	7.753689243	7.918888176	8.07956156	8.91075877	8.211752395	7.615338825	8.465398846	7.5984435	8.652257353	8.013242673
EFPIE1	8.955220043	8.36575606	7.98540045	8.447248081	8.16062008	8.461972192	7.289259908	7.999595907	8.35209581	7.882086778	8.008482738	8.140251428	8.44262358	7.866296599	7.870891215	7.814937724	8.139795193	8.079042705
CEPRL	7.90762379	8.321748276	8.517756105	7.466601216	8.173277705	8.20012835	8.170616785	8.456426466	7.852932079	8.042256707	8.042256707	7.89942332	6.69234443	8.857278053	7.653453934	8.357789245	8.050994041	8.18929666
NOCL	8.493318937	8.74234932	7.807232346	7.835770821	7.835770821	7.835770821	7.835770821	7.921326567	7.921326567	7.921326567	7.921326567	7.921326567	7.921326567	7.921326567	7.921326567	7.921326567	7.921326567	7.921326567
IF52	8.316569265	7.421849069	8.229858629	7.862138633	8.055772964	8.687443916	8.183715984	7.654214019	8.445985527	7.710332752	8.182346288	8.794921541	8.530447294	6.98814332	8.055260575	8.04781773	8.032247307	7.888870185
ITG2B	7.486920586	8.299951577	8.351610958	7.901983704	7.65192096	7.509722098	8.104257435	8.143288411	8.145218863	8.009479242	8.297442683	7.973786928	7.751546923	8.145226726	7.985757721	7.985757721	7.985757721	7.985757721
AD0007.1.6	8.508157745	7.847357566	8.41875805	8.179088228	8.281214285	8.606130719	7.897630982	8.215415538	7.457234495	7.910251882	7.78556524	7.94914681	8.289486167	8.313637493	8.091251934	7.487014318	7.80641231	7.980779923
LETM1	6.618324678	7.502576566	8.718666906	8.171866906	8.212372516	7.71832256	8.31061984	8.317873908	7.71832256	8.127183215	7.819092066	8.09703493	8.751132841	7.70936074	8.857209261	7.95849701	8.081994302	7.959721225
ACAD10	8.055934334	7.233857705	8.350175766	8.925949708	8.214881133	7.411821303	7.210248826	8.177029562	8.177029562	8.063087183	8.019024662	7.924399276	7.97422328	7.73513098	8.566287308	8.015188262	8.408044104	8.256224892
SUPV3L1	8.689496715	7.210923197	7.694696195	8.123167394	8.272282969	8.272282969	8.272282969	8.272282969	8.272282969	8.272282969	8.272282969	8.272282969	8.272282969	8.272282969	8.272282969	8.272282969	8.272282969	8.272282969
HLB7	8.15923317	8.133058567	8.133058567	8.133058567	8.133058567	8.133058567	8.133058567	8.133058567	8.133058567	8.133058567	8.133058567	8.133058567	8.133058567	8.133058567	8.133058567	8.133058567	8.133058567	8.133058567
ACEV	7.512583202	7.052870193	6.638256072	8.068843971	7.987182711	8.256463047	6.386355336	8.515593182	8.54177745	8.41092974	7.57467822	8.116023178	7.661268607	7.132369959	8.019212902	8.07785025	7.57938187	7.928418258
CRIP1	8.188669956	8.188669956	8.188669956	8.188669956	8.188669956	8.188669956	8.188669956	8.188669956	8.188669956	8.188669956	8.188669956	8.188669956	8.188669956	8.188669956	8.188669956	8.188669956	8.188669956	8.188669956
DROSHA	8.430196579	8.176234917	7.495693493	8.176733491	7.481402928	8.789398392	7.668271924	7.922169737	8.064148808	8.72297935	8.208162668	8.715894741	8.612955804	7.599871081	8.868418245	8.008906685	7.94420886	7.757483422
ELMOD2	8.082096777	7.844396894	8.014139127	7.502989167	7.308994525	8.416910184	8.018990374	8.0855999	7.75801949	8.052991613	7.467200852	8.528200064	7.608345613	8.213171396	8.071701716	7.942634153	7.826679194	8.27669194
TRK1	7.957574444	6.314499274	6.882768056	6.625004104	7.534138212	7.829871663	8.147770057	8.281965595	8.301169227	7.662948599	7.820495204	7.027031591	8.895591669	7.376512036	8.325236562	8.110774248	8.235807348	8.70654311
PRR3	8.03195666	8.212329847	7.805559159	8.705559159	8.40983743	8.427788071	8.387310541	8.488152555	7.859373516	8.184953255	7.68							

CHCHD1	8.48885622	8.05710801	8.18103703	7.941747261	8.239947533	8.350242566	7.83103635	7.831819681	7.998337118	8.027903836	7.940322015	8.12461975	8.022360655	8.349858266	7.571963533	7.979856048	8.00086852	7.657306101
SGMS1	8.12185267	8.579004407	7.90696816	8.912704293	7.833123178	7.629155652	7.90046649	7.822572081	8.21724392	7.929656929	7.865006011	8.223558264	8.648627045	8.034888774	8.161758081	8.060351377	7.961619524	8.255997644
Clio109	8.572592802	8.186905759	8.369983754	8.092170623	7.749919968	7.501875504	7.921938786	7.905620876	8.086649688	7.705620823	7.536848823	8.331843086	8.518312183	7.415003896	7.692952814	7.883515647	8.043148117	7.510844596
HSCB	8.548780406	7.873197274	7.96510784	8.449883827	8.491175659	7.815714297	7.800273791	7.923362723	7.747901165	8.201884084	8.183575029	8.960532349	7.441948064	8.990544759	7.864688318	8.055088761	8.439966931	7.903916498
NPA	7.20664056	7.777630871	7.658483916	7.653117999	8.51432806	8.51432806	8.037138089	8.634711554	8.15204416	8.15204416	7.776917991	7.776917991	8.441111808	8.541111808	7.982321483	8.544666611	7.982321483	8.544666611
ZNF68	8.65835561	8.46143663	8.450474991	8.165878565	8.029594492	8.029594492	8.51532034	7.505894273	7.992320091	8.423020091	7.887818208	8.300879378	8.900456504	8.576507537	7.97259601	8.876712042	7.87624063	8.151435447
JKS1B	8.198397476	7.042136589	8.629218052	8.273868694	7.831831429	8.735835902	8.361933964	7.94780006	8.06666601	7.56972865	7.940471729	8.015013905	8.337168222	7.541268828	7.611695022	7.789464900	7.467024302	8.003117463
ARI2D	7.344637392	7.674628797	8.890166723	8.089166723	7.078438339	7.078438339	8.085979348	8.085979348	8.085979348	8.085979348	8.311766566	7.615839796	7.770513133	7.830519599	8.306551069	8.233784922	8.276612784	8.051121755
ARHGAP17	8.353392465	8.694233066	8.930879051	7.702709494	7.418522074	8.500354799	7.77769595	7.703638482	7.840097441	7.90359991	8.039364316	8.591491622	8.50972601	8.827602901	7.42833192	8.292925254	7.983468134	8.031759531
UBR1	8.001357657	8.49117343	8.251774892	7.118662881	7.994142781	7.855406478	8.04964078	8.18405883	8.080033242	7.211914289	8.178126252	7.98450394	8.514260777	8.360322866	8.514260777	8.387950381	7.819705931	8.07570531
CDC163	7.823496856	8.49121358	8.49121358	7.823496856	8.49121358	8.004933609	7.61969424	8.008910377	8.14604871	7.794600897	7.65541635	8.649025962	8.465392319	7.935529349	7.933968633	8.047413856	7.909374736	7.909374736
MPRL35	8.426453711	7.9805795	8.262971919	7.963469937	8.300719815	8.300719815	8.050108989	7.53678194	7.920001996	7.69165372	7.69165372	8.71607239	8.971637831	8.25292816	7.440068661	7.862376608	8.066179201	7.478466498
ARHGFE40	8.366463035	8.774204471	9.04614272	7.491759186	8.51192058	8.043901368	7.76125136	8.138497175	8.261574419	7.842660104	8.160565101	8.906141274	7.878359515	7.8964574	7.928307976	7.68158097	8.51432806	8.51432806
BORCS7	8.157311036	7.790045625	8.552391773	8.239653836	8.230524808	8.132756463	7.969417333	7.642178991	8.043196401	8.029116032	8.159782488	8.201793489	7.507292111	7.231348637	7.81451575	7.854537139	7.947285075	7.71004663
UPP1	7.118018271	7.789562018	7.995670128	7.995670128	8.069822604	7.998378	8.055617711	8.307998384	8.075193473	7.673579157	8.460171406	8.352622608	8.775100382	8.402283692	8.379052876	7.862163207	8.06836336	7.906790799
PK3CB	7.008368002	7.065237925	7.95675017	8.277100191	8.379148859	7.207637538	7.611746466	8.422987784	8.602826093	8.712862473	8.05170658	6.881765502	7.85367246	6.182446605	7.85367246	8.420543614	8.056806247	8.232299031
XPO4	7.686474347	7.637477126	7.637477126	8.141649339	8.15183176	7.042318694	6.540546902	7.473134142	8.182766054	7.75422288	7.144134869	8.489663711	6.056272158	7.866306817	8.40319392	8.588481745	9.051769919	8.588481745
CHMP6	7.759207796	7.912520899	7.912520899	8.004823128	8.223218394	8.180460252	8.053448494	7.330240586	7.330240586	8.00254337	8.051457557	8.241562361	8.319540105	7.186803273	7.776860721	7.905580253	7.624035881	8.305308971
TMEM189	8.803988202	7.61926067	8.28318013	8.283172455	8.451182524	8.935075704	6.799925356	6.799925356	8.26497125	8.22782644	7.99483299	8.097348689	7.339985882	7.93552939	8.006677055	7.382594663	7.630998019	8.104846806
PELO	8.74595486	8.251958786	8.644846837	7.779041912	7.989462988	7.758780087	7.132534507	8.09814543	8.01768388	7.75265059	8.325294665	8.093901254	8.492863555	6.973138007	8.534518477	7.714314329	8.014472657	8.75623982
IKBG	8.301848236	8.413496338	8.073462082	8.024584005	8.443746414	7.754506451	7.754506451	7.795189338	8.074338169	7.65400856	8.074338169	8.485765009	8.760336964	7.855523439	7.697938514	8.00149113	8.179782248	8.179782248
RAE1	8.474168809	7.988073815	8.307780368	8.764407612	8.80025566	8.717319667	8.016434311	8.84997856	8.39259266	7.93592783	8.90578731	7.782735597	8.306067376	8.90578731	7.278002167	8.886452038	8.062656219	7.760495504
AGO2	8.780264207	8.029491911	7.02555491	5.948937829	7.923329481	7.705056167	7.971470185	8.995192159	8.31868617	8.452392965	8.86308192	8.608623077	6.531082978	5.989332417	9.100979224	6.648056406	8.571998403	8.784150257
DBP	8.401961382	8.497843261	8.363608059	8.280470932	7.249145631	8.649186591	7.798697227	8.852303459	7.964700021	7.850079315	8.035776123	7.249507446	8.389427111	7.621552288	8.039498985	7.399132665	7.964700021	7.964700021
TBC8	8.751402984	8.608986442	8.506493554	8.286317894	7.600687297	8.556708250	7.812789131	8.11013007	8.019536498	7.622628089	7.980365404	8.199154264	9.141088773	7.675529399	7.739043501	7.644500898	7.475873006	7.927250983
RBM19	7.491798819	8.330001483	7.565110094	7.917582498	7.796274998	8.356501932	8.516318334	7.837507212	8.131472707	8.490493593	7.76298083	7.62764166	8.502534478	8.509039421	8.027032331	8.401159643	7.849884615	8.104846806
CLASP8	8.308466856	8.301582343	8.555999896	7.908540469	8.026044819	8.211367273	7.881382666	8.021982451	7.818019505	8.012790391	7.92506891	7.882953667	8.584348975	7.965375361	7.985301125	8.786811903	8.132625091	8.782520931
ARHGDC1	8.37495824	8.983788346	8.198789154	8.396240189	8.29249497	8.989039428	8.002754155	8.302437331	8.302437331	8.302437331	8.188576958	8.320829884	8.211638086	8.79179471	7.996344447	8.305350323	8.211638086	8.305350323
METAP1	8.687469656	8.687469656	8.687469656	8.487362717	6.568357122	8.487362717	6.568357122	8.268244071	8.244498949	7.981018559	7.932068011	8.553158227	8.615740718	8.858910388	8.768840373	8.132625091	8.132625091	8.828531447
TLL12	8.710884383	7.461911767	7.825210552	7.131676069	7.948093906	8.4123016	8.714064379	7.861777261	8.289254885	8.10739656	7.803731433	8.250970855	7.832162458	8.193565519	7.989329296	8.09800484	9.70455519	8.342380376
ANKRD16	8.60234332	8.638265566	8.489138905	8.446682767	8.017190579	7.97420397	8.151181029	8.151181029	8.151181029	8.151181029	8.575434042	7.955341278	9.000663107	7.864032021	7.85710812	8.27725157	7.979446677	7.979446677
PUPP1	7.715939836	7.947846724	8.422669711	9.05862919	7.75580463	9.105223352	8.347148256	8.172798113	8.323205525	8.044888751	8.76112088	7.468220838	8.197487812	7.63014507	7.859822986	7.702320317	7.548022737	8.414343903
SIC2A12	7.239391953	8.164622848	8.274893566	8.38747381	7.97097588	5.642970121	8.62143076	8.10897924	8.263711778	7.108743776	7.686526353	7.594420089	8.58485203	7.981059889	8.010662062	7.606937583	8.01153032	8.01153032
RHOBTB7	8.06237191	8.37679455	8.50414845	7.835865411	9.064009135	8.768802809	8.467117533	8.258597443	8.169141986	7.586380179	7.772625873	7.942455456	6.225133498	7.305386711	8.048481669	8.102719035	7.750083455	7.885760031
Clio198	7.550643345	7.85658114	7.767121457	8.396240189	8.29249497	8.989039428	8.002754155	8.302437331	8.302437331	8.302437331	8.188576958	8.320829884	8.211638086	8.79179471	7.996344447	8.305350323	8.211638086	8.305350323
IKBKG	8.100222942	8.100222942	8.100222942	8.100222942	8.100222942	8.100222942	8.100222942	8.100222942	8.100222942	8.100222942	8.100222942	8.100222942	8.100222942	8.100222942	8.100222942	8.100222942	8.100222942	8.100222942
SNAP25	8.397796078	8.425182194	7.409296394	8.416239253	7.889419089	8.126457272	8.051760005	7.661454293	8.264004763	8.01281928	8.085541156	7.726411185	7.221688405	8.673266447	7.404427784	9.796793016	9.306533432	7.248130006
NRN	8.40397518	8.40397518	8.40397518	8.40397518	8.40397518	8.40397518	8.40397518	8.40397518	8.40397518	8.40397518	8.40397518	8.40397518	8.40397518	8.40397518	8.40397518	8.40397518	8.40397518	8.40397518
ALMS1	7.973246849	7.78178363	8.001463284	6.127017812	9.546581698	7.684120118	5.754591251	7.894541087	8.141242547	7.764083743	8.58970227	8.612701997	9.248664816	7.68664865	8.052097945	8.225363245	8.69115866	8.048381633
TMEM199	8.390744884	8.76238785	8.76238785	8.76238785	8.76238785	8.76238785	8.76238785	8.76238785	8.76238785	8.76238785	8.76238785	8.76238785	8.76238785	8.76238785	8.76238785	8.76238785	8.76238785	8.76238785
MR1	7.34317032	8.02771622	7.066774227	8.055606933	8.2279785	7.88981996	8.172145445	8.00818731	7.968514952	8.091756616	7.96841868	7.76228055	8.282952969	8.217366352	7.746730544	7.984430292	8.23967822	7.71395919
RCL1	8.506080792	9.187216154	7.066687174	8.767137385	7.591797777	7.499030616	8.180312081	7.628187394	8.196319071	8.50430776	7.850416077	8.50430776	8.196319071					

AKAP11	8.501914886	7.504811327	8.384727785	7.462415838	8.274063704	7.966818658	8.319242424	7.947022388	8.342532117	7.447138018	8.175872134	6.646622244	7.658880804	6.234197488	8.018110612	8.106031619	7.967891001	7.349181895
ELP3	7.229391254	7.998719058	7.68853218	8.212042027	8.170659176	8.599040272	7.836550102	7.258518273	7.74801402	7.949908932	7.648832369	8.248300655	8.64345625	8.073334412	7.926944345	8.266928635	7.919624584	7.981652787
SLP2R	8.501763459	8.501763459	8.501763459	7.978376461	8.781698126	7.777956988	7.816949824	7.816949824	7.617007746	7.617007746	7.977202689	8.784701637	8.485380568	8.811728222	7.68231437	7.6485332	7.304445081	7.346454023
NEB	7.26794297	6.125409066	8.804029966	7.603608704	7.496907185	9.142732343	8.600179952	8.065619323	8.280039797	7.573207166	7.863404275	7.842430016	7.735759963	9.352426441	8.830225077	9.352426441	8.700779294	8.557731305
TMU1	8.753509858	6.758034733	8.620890777	7.658034733	7.99849847	7.494148485	7.95699582	8.101862344	8.240184447	8.650782832	7.844827828	7.487840533	8.547071343	7.855035444	7.855035444	7.855035444	7.890119768	8.21112342
MYS1M	7.568076277	7.568076277	7.568076277	7.636676675	7.763666704	7.763666704	7.198604646	7.198604646	7.473694923	7.759674777	7.476482865	7.832590868	7.940944412	8.861702043	8.861702043	8.861702043	8.213035782	8.546526425
RPSMG1	8.537863552	6.488611976	7.838383617	7.746088248	8.554092754	7.892866537	7.362116803	7.992861044	7.925336065	8.539839844	7.480739588	8.510365151	7.062417523	7.828828021	8.306747586	8.37965298	8.649117901	8.911202949
PSMG1	8.916324814	7.674808462	8.170075796	7.746088248	8.554092754	7.892866537	7.362116803	7.992861044	7.925336065	8.539839844	7.480739588	8.510365151	7.062417523	7.828828021	8.306747586	8.37965298	8.649117901	8.911202949
ITPA	8.093451269	8.532503582	8.960297286	7.837595904	8.441311645	8.53112794	8.046036094	7.9977171	7.685699303	7.840479093	8.789272286	8.097386029	7.707547962	8.16114904	7.920424567	7.966265524	7.953986112	7.74609997
ANKDD1A	7.430032609	8.542575013	7.960846685	8.580991217	7.067447353	7.816945512	7.968284982	8.007654652	7.502237034	8.299211208	8.085406275	6.51792266	8.251286987	7.621126073	8.083836996	7.570339515	7.935054094	
PUS1L	7.995831769	8.112451843	7.870691569	8.159818844	7.993873749	8.118721026	8.288603162	7.95412801	7.729601077	7.729601077	7.995831769	8.112451843	8.378081447	8.200692199	7.814551188	7.97262925	7.506883057	8.086091918
MYS1Z	8.278110151	8.215739055	8.0354986	7.535454551	8.105105298	7.708916689	7.42258911	7.932594402	8.09617574	8.057220099	8.001384398	8.134441037	7.987434008	7.915800581	7.756282514	7.756282514	7.756282514	8.311260105
SNRP	8.388883556	8.388883556	8.388883556	7.713735746	7.755014409	8.334018806	8.86770467	7.991800746	8.205238667	7.672143754	7.900176239	8.66573079	7.92816086	7.656769287	7.78400898	8.101315912	7.854144559	8.190920607
INFP1	7.98442046	8.244102715	8.44210232	7.964300494	7.9536364	8.20966144	8.040267509	7.896717964	7.905514073	7.747420481	7.6542982	8.579305578	8.27651771	6.987693897	7.645719975	7.708196709	7.482519645	8.782007778
Coro7f2	7.388392004	7.984799879	7.984799879	8.101762297	7.700366859	8.252660813	8.002666101	7.79274436	7.831677738	7.980347523	8.295224806	7.080369829	7.936540206	8.093282823	7.644785781	7.644882841	7.532396246	8.049024063
NEDD1	7.980528074	5.67623147	8.258370427	6.946581364	8.015414315	8.597535828	5.987976511	7.486504777	8.326947996	8.110623483	7.9358485	8.458641038	8.980643093	8.403485161	7.689758964	8.42799332	7.846379119	8.09038052
DHCR7	7.842144877	8.602977028	8.208937017	7.328339051	7.73540059	7.520365357	7.73540059	7.561443068	7.923312751	7.923312751	7.971232751	8.497292392	6.881800801	7.580657571	7.941703911	8.320450106	7.924184119	8.488104263
TMCC1	8.002129314	8.664841871	8.273886649	8.664841871	7.655402172	7.907940197	7.655402172	7.469901977	7.844236123	7.844236123	7.58997083	8.227077975	7.910118641	8.276494865	7.539954733	8.097952648	7.928634307	7.71424363
HOMER2	7.949378288	6.664050478	8.97327722	8.024710134	7.829582448	7.90295563	7.432033559	7.774308556	7.833730464	8.075189612	8.141389612	8.372916638	8.323528438	9.039971606	7.399457745	8.426981597	7.961601845	7.961601845
BAX	7.362950826	8.179828279	7.685660676	8.179828279	8.414774267	8.102216274	7.916008	7.724862843	7.687166988	7.812949125	7.809405169	8.139166463	8.380363744	7.144746151	8.005885863	8.165599457	7.108676435	7.985611149
CDK12	8.629782967	8.280023418	8.730290399	8.280023418	7.713735746	7.755014409	7.515255153	7.274737981	8.257546311	8.287187718	7.402040887	7.916564116	7.047851889	6.768826908	7.296027901	8.28686728	7.879510897	8.054375026
IRAK4	7.870025871	7.759645571	8.589930225	6.854276728	8.125302299	8.241580624	8.488454483	8.024127844	8.294306463	8.040509599	7.768047121	7.951104296	6.03283481	6.448753337	7.688615706	8.143105806	7.956032717	7.328439674
HLQ1	7.800537973	7.846066801	9.027046419	8.949425279	6.274474821	8.026829692	7.554528474	7.730247018	8.664264299	7.170279055	8.327061184	8.066658162	7.923861735	8.165833981	8.081564616	7.936416817	7.970188341	7.831106689
MDP1	7.987597233	7.212754581	8.599955678	7.917631452	8.487602556	8.275717604	7.719598233	8.11562192	7.794096987	8.027853998	8.071323584	8.508306616	8.094736814	7.620652258	7.829308697	7.973966652	7.368504266	
TIAM1	8.02934422	7.497468083	8.121436601	6.851421528	7.063158501	8.379669494	7.68883698	8.256036647	8.025900778	8.625139381	7.687909066	7.335891463	8.025213194	7.218841994	8.052194359	7.879143483	7.869508599	
TAOK1	7.558716883	6.613879742	8.384543367	7.390424410	7.995674698	7.528173929	8.021609365	7.92675249	8.177360771	7.601742991	6.847535653	7.265432939	6.156001608	7.975126486	8.410300576	8.126176319	7.60657198	
CMCA	8.252751223	8.13341718	8.123229503	8.106263242	8.200721392	8.175693803	7.309720833	7.539170757	7.794541862	7.319384121	7.776719991	8.644689711	8.571040099	8.049999994	7.219457293	7.270996426	7.445949056	7.426448668
TMU2	8.732033362	8.732033362	8.732033362	7.592246736	7.592246736	7.592246736	8.156929251	8.093279884	8.093279884	8.272774459	7.652544464	6.525444464	6.525444464	6.525444464	6.525444464	6.525444464	6.525444464	8.214461237
MED2A	7.935646807	7.875548307	8.01966681	7.935646807	7.997784272	7.489319766	7.957233346	8.278251563	8.16377171	7.93959912	8.410256219	8.814210389	7.583024462	8.010794336	8.366024804	7.865256389	7.865256389	
CS26AG	8.216548339	7.959393568	6.489274463	8.248163928	8.38777661	7.521953892	7.384112069	8.182554695	7.746124672	7.942877009	8.082349668	7.78097545	6.946350559	7.590972785	8.415607242	8.025030155	8.127283198	7.899449422
KCNBR2	8.114402428	8.340131078	8.371313858	7.920751027	8.371313858	7.920751027	8.371313858	7.920751027	8.371313858	8.08323	7.600410608	8.018078968	8.118873417	7.767546388	7.975176313	7.712148712	7.759429621	
TMEM216	9.032578062	8.915053201	8.575768153	8.26320438	8.161983394	8.106456881	7.984302099	7.749344474	7.910095122	7.817524171	8.085021615	8.302901748	8.203430074	7.749149421	7.609322247	7.882475123	7.50496199	7.818790318
FR3A	6.63467496	7.134640926	6.655052748	7.963287811	8.164939387	7.596395792	8.286126449	8.064547684	8.280126449	8.126135884	8.251491595	8.133744699	8.685918204	6.295439939	7.986581508	7.770405729	7.96673639	8.14448266
ATG16L2	7.923483717	6.661293178	8.283038482	8.114444063	7.11292344	7.689429415	8.249941244	7.968174742	8.3161369507	8.076442778	7.239108813	8.599917882	6.428277432	8.354046349	7.480664614	8.17097165	8.147458249	
ATG16L1	8.296343226	8.296343226	8.296343226	7.407097673	8.489421009	7.65013325	7.581979709	8.226513042	7.819275008	8.182623067	7.954623067	8.051872592	6.768940259	8.04621703	7.917613954	8.175065669	8.175065669	
NET116	8.194004405	8.194004405	8.194004405	8.325903088	7.827342506	7.964242612	8.16019631	7.949819086	8.066057177	7.957973277	8.099198214	7.957973277	8.099198214	7.957973277	8.099198214	7.957973277	8.099198214	8.1021082
CDKN1C	7.950919391	7.440915507	8.393904685	7.736850828	7.887405054	8.101618379	8.261282384	8.056593103	8.187726608	8.16583919	8.24993874	7.539446512	8.13333788	8.496993834	7.819349715	7.774884161	7.931001911	7.47558086
PANK2	7.439278296	7.617541274	8.85092381	8.62082313	7.892312518	9.106939421	8.376336808	8.109178378	8.369433527	8.141737898	8.105966001	6.638549514	9.02910199	8.58988148	7.981668107	7.900621616	7.886610899	8.188000823
TBC1D10B	7.660957655	8.69640949	8.273263057	8.254938985	7.83948422	7.185487438	8.014575687	7.933447162	8.28481251	8.061708761	7.954664604	7.452304489	7.608738166	8.650316272	7.904760701	7.700458004	7.907534192	8.734160808
GNP3	8.105871242	8.056531643	8.056531643	8.663187371	8.187471772	8.397484986	7.925243793	8.126112747	8.126112747	8.108410841	7.591951925	7.958508019	7.879772563	7.564480241	7.931636304	7.959215923	7.959215923	8.105871242
INT5A	8.730892047	8.717404988	8.717404988	8.015040863	7.608723935	7.061168542	7.814627886	8.208889222	7.945019596	8.68713029	8.116023602	7.676967077	8.314106458	7.909977731	8.084900625	8.073242371	7.93974066	
ORAI1	7.512120957	7.713906470	8.713906470	8.713906470	7.819736977	7.819736977	8.249587728	7.639117318	8.249587728	7.50711667	8.182612805	8.22570267	7.794507259	8.099970293	7.3410			

RP2L6L1	8.29624158	8.341670003	8.324144421	8.151304372	7.959095875	8.225345198	7.636505044	7.604726277	7.785191934	7.50684947	7.645215978	8.03495578	8.258946339	8.085690195	7.066920134	7.571782664	7.263983443	7.805653774
NU8P5	7.861459447	7.910848023	7.701265992	7.771105577	7.309900811	7.809800887	8.653280095	8.069226229	7.302823481	8.451012722	7.709810528	7.550549485	7.937810627	8.254212995	7.958053758	7.814592456	8.539923318	7.903410924
G8E1	7.751290177	7.570041675	7.884141907	8.667111477	8.44825367	7.880282329	8.651755037	7.880282329	7.831959567	8.087901921	7.673752165	8.526855085	8.086933528	8.295734714	7.3543559423	7.918890321	7.866728735	7.808007231
TRB3	8.941218665	8.79430678	8.405365633	7.290200012	8.437321461	8.473973503	8.737395878	7.596808006	8.513998512	7.779841431	7.614347116	7.547374835	7.586468299	8.413135531	7.781025884	7.981073348	7.757246054	7.168421674
CL4L3	8.45764021	8.142300774	8.216808556	8.404403929	8.704054784	7.923129009	8.218908466	8.218908466	8.134179626	8.134179626	7.983790211	7.706599317	8.577057637	8.661367079	7.782660563	7.833167026	8.235511079	7.286516050
TR10P	7.149370234	7.593705344	8.28617322	8.28617322	8.17674864	8.15533993	8.623149135	7.901259349	8.164654161	7.71557479	7.155926442	7.964892461	7.964892461	7.554404515	7.032329292	7.87078289	7.688009567	8.088009567
KWFL9L1	7.97608114	7.922508343	8.606211165	8.135658675	7.763400045	8.053428746	7.463023955	7.616763247	7.578752865	7.986937579	7.673491004	7.525689052	7.602910288	7.877933948	7.547041136	8.134055671	7.896668227	7.861481799
CUH19L1	7.142011589	8.249573263	8.493217045	8.249573263	7.875146599	8.543650143	7.75148681	7.641266557	7.761322182	7.761322182	7.439140047	8.749593173	6.81273221	6.926879416	8.041987754	7.440106153	7.900629438	7.913688805
ADCK2	7.884692837	7.859248107	7.934717405	8.463260375	8.287865722	6.93301387	8.310243684	7.613466247	7.827243558	7.579865785	7.912371815	8.042765448	7.800814539	7.861797489	7.982247834	7.941693262	7.551872587	7.349537593
CZD5	7.918092021	7.021993556	7.940274261	8.052093546	8.030977887	8.526266539	6.538772027	7.808775121	7.901783763	7.94814475	6.874016512	6.391645087	7.451593819	8.189800002	8.33091564	7.854756086	7.369529611	8.33091564
MMGT1	8.004738909	7.932930209	7.82310973	8.489798629	7.459798826	7.252484589	8.066760588	8.112246589	7.912246589	7.912246589	7.903474736	7.590819116	8.164784423	7.45155599	7.690533277	8.160747211	7.806271767	7.820521767
BN0T7	7.559940233	7.825176917	8.684656682	7.500384499	8.518118528	8.529914324	7.762587161	7.459221257	7.864797777	7.731788637	7.730570212	8.004686137	8.052490191	7.88894078	7.549288506	7.70342436	7.625034802	8.20714435
KDM6B	7.465143248	7.639165988	6.541199658	6.541199658	6.858252015	7.91749582	7.834579871	8.74190798	8.434132603	8.969351199	7.49174692	7.67564302	7.54150685	8.47934927	9.028193836	8.169479448	8.62551281	8.62551281
LPC4T3	7.034912214	7.323653436	5.878618267	8.25206195	7.923216378	8.169031491	7.21533943	8.21680519	8.112711641	8.112711641	7.827365541	8.052164177	8.457983189	7.72176176	8.258012207	7.31278045	7.602157681	9.063042155
LSM6	8.00673181	8.267700837	8.429102717	8.267700837	7.948066627	8.265284757	7.294273773	7.546582807	8.007633494	8.16411922	7.958666742	7.76016394	8.398259126	7.926634436	7.517643903	7.73541927	7.72649257	7.988187424
DPY19L1	8.002595683	7.757639685	8.077046463	7.719212494	7.772004674	7.880755283	7.691477162	7.850382545	7.938863761	8.065211024	7.704054613	8.320212235	7.935055305	7.495230255	7.36529223	7.553123528	7.930942021	7.869640805
AC01	7.849209231	6.039836374	6.463173025	8.039826775	8.621275239	8.493826922	7.900014432	7.79381006	8.280075263	8.102257195	7.903926682	5.763761753	6.158028664	7.743635789	7.409170438	7.792617325	7.9015213423	7.9015213423
TSK2	7.620244049	8.669581895	8.604877339	8.331139901	7.995323238	7.089706223	7.615438641	7.488389609	8.33126378	7.772590331	7.984926749	7.320768022	8.544602224	7.975295686	7.765534996	8.79587892	8.202208454	7.170596308
SWMPD	7.84676449	8.085457535	7.784273998	8.225838885	7.840283325	7.984875556	8.077003408	7.978443356	7.712700964	7.898644826	7.987432083	8.006252991	8.227077451	7.57194312	7.519543473	7.519543473	7.525839815	7.525839815
PHF23	8.360893442	8.537396996	8.142300774	7.715484463	7.874699372	8.432013983	7.440719537	7.44217375	7.604298362	7.609111981	7.585149922	8.257509335	7.537261285	8.300136203	7.869150032	8.054234426	7.487441379	7.122786614
TRD3	8.179820052	8.239452389	7.210474271	7.688995269	8.14902107	7.859853183	8.20745026	7.751907082	7.651971711	7.882365095	8.299113469	7.31124407	8.409811284	7.643181095	9.926601959	7.89512791	7.521918863	7.521918863
SLC2A8	8.075112812	8.982492192	8.340313438	8.105464836	8.052198777	7.996861838	7.978371747	7.646344344	8.301549588	7.768941497	7.978322277	7.888619745	7.426185388	7.548176854	8.28745026	7.622044195	7.85303375	7.990154999
A8HD18	7.536802212	7.885040445	7.963448561	7.965049492	7.062445458	6.699811615	8.335144972	7.856293119	7.94791696	7.915916828	7.778467539	8.028438699	7.40783369	7.114448969	7.969121208	7.537353101	7.421092226	7.885289131
BT4	7.773449378	7.08347323	8.885939599	7.76467097	8.9085347	8.06992911	8.521467282	8.096992159	8.521467282	8.195053052	8.28697772	7.31299683	8.799631899	8.71580352	7.108418629	7.817638175	7.875080232	7.774135937
CF5F7	8.04039761	7.874217294	7.850358582	7.879416004	7.96959671	8.20013868	7.907632995	7.626454065	8.775359796	7.730359796	7.774371549	7.41395365	8.092166088	8.052126276	7.86581396	7.878011928	8.023075911	7.826740043
FX08	7.85148796	8.529390152	7.514891686	7.435400002	7.828352673	7.96232177	7.528398413	7.871554817	8.002911875	7.754099268	7.86525968	7.964186365	8.23336698	8.29574116	7.772415935	7.86831952	8.02516513	7.762466431
SLC5244	7.606086531	6.984384842	7.154715008	7.606248281	7.047791062	7.432691836	8.547369269	7.578698513	7.927187467	7.888438353	7.805309291	8.480217083	6.267641549	8.174192244	7.893244436	8.071069635	7.46435905	8.053919851
CTB-SOLL1.1	7.520786074	7.120786074	7.520786074	7.520786074	7.520786074	7.520786074	7.520786074	7.520786074	7.520786074	7.520786074	7.520786074	7.520786074	7.520786074	7.520786074	7.520786074	7.520786074	7.520786074	7.520786074
NO1P6	8.593738394	8.291675108	7.523623488	7.58886231	8.06551638	8.479509078	7.878799639	7.578486107	7.892321245	7.832675347	7.93816466	8.089651026	8.05967434	7.154301387	8.211179152	7.61718197	7.527615706	8.372490545
CNG2	8.25496191	8.248619398	8.449896910	7.649935361	8.428359168	7.649981374	7.752635478	7.901117373	7.778102156	7.750548209	8.001590112	9.119588604	7.835654323	7.763069898	7.725173399	7.515963077	7.985093992	7.985093992
DTX2	7.535535288	7.602634546	7.225575379	7.699312648	7.40429709	7.728762639	8.502920753	7.448642991	8.105574289	7.765931989	7.929906806	8.330347778	8.001624699	8.632823545	7.667724487	8.005750315	8.007552986	7.546627464
KR11	8.789720065	8.35476185	8.53282984	8.23443467	7.808457866	7.50080761	7.8735424	7.712300919	7.712300919	7.712300919	7.669760846	7.482764393	7.992396762	7.665788414	7.920650788	7.85693198	7.96711848	7.555482257
GALN16	7.837048667	8.966111085	7.718071394	8.370075456	6.85818612	8.114450198	6.864339957	8.211002116	8.26481897	7.753882967	7.53882967	8.317311329	9.101501407	7.70467974	7.846264897	9.927277152	7.887029044	7.455109925
RF15	7.60709098	8.769083133	7.650808997	7.589774315	7.650808997	8.220296611	8.827005978	7.440719537	7.440719537	7.898339343	7.747769397	8.04748804	6.126326092	7.901591291	9.015323706	7.910555094	7.910555094	7.910555094
FAM22B	8.317925946	7.852042952	7.355402952	7.73514013	7.67946034	7.36946034	7.36946034	8.118905054	8.070565481	8.252752028	7.5885701	8.45945508	8.061194902	8.219193128	8.96238366	8.581125251	8.96238366	8.581125251
VPS50	8.291143282	8.124485421	8.236878982	7.608939087	8.13350491	7.647325306	7.736915354	6.615146693	8.21133808	7.909417991	8.07519499	8.017256622	6.550019519	8.006243603	7.585488588	8.139413883	7.970255155	7.63027902
ANKR054	8.58013494	8.089237522	8.142485421	8.089237522	8.191937984	8.092206807	7.7583236	7.643794818	7.712391491	8.18545484	7.65377996	7.20856684	8.11291871	8.007105609	8.256219558	7.59866895	8.011801339	7.570256547
RWD03	8.144968748	8.307434604	8.692565705	8.649818584	6.982274832	7.300903355	7.856952015	7.169392033	8.0278733	7.806759306	7.431825976	7.873058983	8.840916501	8.539023259	6.997797159	8.141555979	7.467016787	7.038306794
CTor26	8.20528878	7.544024357	8.53282984	8.23443467	7.808457866	7.50080761	7.8735424	7.712300919	7.712300919	7.712300919	7.669760846	7.482764393	7.992396762	7.665788414	7.920650788	7.85693198	7.96711848	7.555482257
RGPD5	7.638238685	7.389180676	7.879017852	7.4849017852	7.4849017852	6.89302438	7.17079916	9.428417434	8.084020204	9.627120391	9.24110384	7.029671662	7.68001477	7.167156544	9.072847983	9.171400207	9.00133896	9.171400207
MOV10	8.076207358	7.289780606	7.587996813	7.48658286	7.655013104	7.518496958	7.873018353	8.194541426	7.855353564	8.14668133	7.425206492	6.286451882	8.565546223	8.112569945	7.982495049	7.945251695	8.121908885	8.121908885
ARH0F1	8.578957851	7.945309457	7.845309457	7.845309457	7.845309457	7.8453094												

MBTFS2	7.542267256	7.857911079	7.328687072	7.791016227	8.443064669	7.732350051	8.074713497	7.617620039	8.046280998	7.951186158	7.923912434	7.529335711	8.529020727	7.822646618	8.029107551	8.077039371	7.589724663	8.262472559
SAP30L	7.337374948	7.475758227	7.707999921	7.837901162	8.00494727	7.96623905	7.83801297	7.838091835	8.253902944	7.77413206	8.049640539	7.521107172	7.846285121	7.514059352	7.89136232	7.90296236	7.381551713	7.7768766
PARP12	8.485299599	9.26043545	8.388247731	7.65598374	7.99784488	7.255284245	7.79556186	7.824800665	7.755630314	8.774800665	7.811808989	7.579383189	6.797688254	6.91002411	7.966256257	7.81248766	7.922879609	8.575780601
APH18	7.566087523	7.583614914	7.717158243	7.989631045	8.100052959	8.259810516	8.088808271	7.95145662	7.46262278	7.878953536	7.995134197	7.983862633	7.801358063	7.529710322	7.491240374	8.012393382	7.360293884	7.490767578
BKS1	7.542384195	7.849365719	7.939368259	7.849368259	7.939368259	7.849368259	7.939368259	7.849368259	7.939368259	7.849368259	7.939368259	7.849368259	7.939368259	7.849368259	7.939368259	7.849368259	7.939368259	7.849368259
GPW0V	8.50323663	8.29083664	7.321889997	7.962112724	7.850235644	7.713288997	7.465432797	7.699556662	7.557295457	7.872656477	7.516323858	8.29186002	6.348765526	7.80244734	8.109688984	7.153851485	8.127702216	7.629381834
VK11	7.785558583	8.229880319	8.065553329	8.220791107	7.916576056	8.081897905	8.397684904	7.79185192	7.931763491	6.733007579	7.743776842	7.728781632	7.239610109	8.681398192	6.762183864	7.886557336	7.736867984	7.655452975
RPF2	7.913065424	7.856877196	7.746064314	7.856772196	7.746064314	7.856772196	7.746064314	7.856772196	7.746064314	7.856772196	7.746064314	7.856772196	7.746064314	7.856772196	7.746064314	7.856772196	7.746064314	7.856772196
SFTZD2	6.382231954	7.572609387	8.973135791	7.080720217	7.581676205	8.53929768	8.935927319	8.15996069	7.923401309	7.813240305	8.094196163	6.482146414	9.340584118	8.126197097	7.703602844	8.108117477	8.376015277	7.702210234
CHM1P1A	8.088659088	8.579141984	8.494843165	8.154268505	7.855211321	7.90908997	8.170837657	7.687057385	7.611828314	7.88982021	7.8781236	7.778407758	7.395992864	7.836546162	7.52261323	7.41457199	7.806808362	8.162502589
CZD1B3	7.348006376	7.629023224	8.006363736	7.825473019	7.340961821	7.718392917	8.136099177	7.90965947	8.189222533	7.718785649	7.364169389	8.570480613	9.241819951	7.836813504	7.868045068	7.700398574	7.838120313	7.88120313
ZVF55	7.435531391	8.295586112	6.427889777	7.209196028	7.970710166	7.209196028	6.016298114	7.93209274	7.843718254	7.810073987	7.740825798	8.200409108	9.964892149	6.514655701	7.523844942	7.934473388	8.466918204	7.115794032
PP21R5B	7.851801965	6.980686681	7.790693971	8.355813754	8.126953203	7.081761395	8.085718074	7.822566477	7.516323858	8.29186002	6.348765526	7.80244734	8.109688984	7.153851485	8.127702216	7.629381834	7.490767578	7.849368259
JMSD	7.737055979	7.142636203	6.333882295	7.5736236	7.430907057	7.78913375	7.42060822	7.504379497	8.26324903	7.884513186	7.854650158	8.181052947	7.239921693	8.308291771	8.072503121	8.127073111	7.800707341	7.870707341
SCD7	7.859641424	8.23135674	6.832226643	7.523061104	6.73406286	6.84543906	8.244426717	7.731984744	7.646346335	7.81883868	8.34324234	8.046674652	7.859835717	6.286748658	7.093144527	8.88984454	7.80779244	7.800707341
NUD2T	8.382809938	7.910152997	7.761713683	8.088182959	7.493829763	8.317057261	7.914604514	7.606104255	7.996950507	7.32030506	7.75638933	7.985219574	8.135725162	8.23917998	7.306449678	7.536819022	7.383348928	7.73488377
MMZ22B	8.850788406	8.374131981	8.196395161	8.037224579	8.196395161	8.037224579	8.196395161	8.037224579	8.196395161	8.037224579	8.196395161	8.037224579	8.196395161	8.037224579	8.196395161	8.037224579	8.196395161	8.037224579
ZNF133	8.295451128	8.389357179	8.112686934	7.292307805	8.49365573	8.074562842	8.791155276	7.528999846	7.710221886	7.818450318	7.752040984	6.688337148	8.217418012	8.605050225	7.626481532	7.852449931	8.356362678	7.06080798
KIA1A32B	8.189432596	7.61339877	7.61339877	7.729395309	8.361741127	7.591108993	7.74118945	8.165462514	7.656520158	7.929721947	7.54675638	6.995193956	7.991588626	7.49636117	8.133750312	7.929666093	8.29774886	8.237199867
TRTPA	7.589544669	7.298446669	7.298446669	7.589544669	7.298446669	7.589544669	7.298446669	7.589544669	7.298446669	7.589544669	7.298446669	7.589544669	7.298446669	7.589544669	7.298446669	7.589544669	7.298446669	7.589544669
HEJAN	8.939232066	7.316249412	7.879422679	7.419328604	8.10883703	7.83385653	7.98420115	7.789460908	7.580350025	7.200442964	8.782782518	8.660254881	8.536676192	8.27844759	7.622425878	7.267771155	7.52610117	7.37849444
DENDD4C	7.524732013	7.492153189	8.464076619	7.86123809	7.33239371	6.30100316	8.536916165	8.98082879	8.583616165	8.05961151	7.81471844	7.14290845	7.731861807	8.025613122	7.721344622	8.547182154	7.806958285	8.676138919
CDCD3C	7.376141006	5.569821346	6.563993079	6.781065532	6.412468523	7.912643313	8.733697622	8.508783553	7.742014615	8.17377401	7.820700783	7.428634444	8.017866701	7.53633368	8.010952512	8.036640037	7.847459326	7.968982854
ECHD3C	7.526189386	5.914313981	7.526189386	8.85579771	7.836199783	7.695214777	7.088385858	5.777668855	8.076694198	7.83105932	8.074851633	6.494441472	7.90262576	7.661840129	7.267763502	8.183298774	8.67188234	7.67188234
FCMR	8.858756653	8.364582981	8.465765951	7.289348365	6.967396705	8.587711359	8.620734985	7.465447098	8.783629454	7.260734432	8.21571824	8.18608574	7.114941023	8.105628525	7.44463248	7.42999792	7.42999792	7.42999792
CH507-9B2.1	6.971458852	7.50036762	7.545880916	7.534180057	6.311138665	7.984503058	8.036062475	8.277227949	7.903503373	8.731803877	7.444718905	8.867565084	7.760519308	8.625267077	7.923018694	7.340978821	8.376260411	8.376260411
GFZT1E	8.395752043	7.295491096	7.845558647	7.573208476	8.185675324	8.185024859	8.042462159	7.669259606	7.816551354	7.359666818	7.65729638	7.91378344	5.94385268	7.342046612	7.86943176	7.631217463	7.941609579	8.30634931
TRP2E	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524
SAMD9	7.75374147	7.786756102	7.53147502	6.649808116	7.746051024	7.03775473	8.016900168	7.919296021	8.146076923	7.76182447	8.325399601	7.296473985	8.394090925	8.218069101	8.583315317	7.70802247	7.83051856	7.83051856
CH52C5Y	7.797376503	8.306511565	8.363151648	8.282628321	8.163401061	8.195305499	7.86348461	7.378030396	7.685371155	7.542920666	7.384914929	7.61413399	7.967556736	7.943696358	6.876168324	7.9323497	7.725197143	7.307469827
THEM6	7.632684268	7.737750547	8.415802038	8.195425242	7.470655705	7.922489702	8.051624028	7.98956316	7.542952522	7.95773189	8.260486712	8.192447304	8.54137716	7.62753808	6.72755237	7.65423197	7.62753808	7.62753808
ULKI	7.421141655	6.988438738	7.640094194	7.296678847	7.854645074	7.296678847	7.854645074	7.296678847	7.854645074	7.296678847	7.854645074	7.296678847	7.854645074	7.296678847	7.854645074	7.296678847	7.854645074	7.296678847
VEZF1	7.036362834	8.21347498	7.734214361	7.533212208	7.49486318	8.390040853	8.28344432	8.19916699	8.018264159	8.175842009	8.082612726	7.357844227	7.666746094	7.30236331	8.156488992	7.918043655	7.982302531	7.801490523
BN3	7.571356233	7.576806618	8.457872561	8.642026174	8.128262127	7.418734671	8.235294624	7.847972624	7.781260211	7.889581714	7.638098464	7.315775226	8.78535909	7.83947887	7.819725507	7.703239767	7.549631931	7.888454676
TRP2E	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524	7.89318524
DAG1	7.407587987	6.462512743	7.07309626	8.92371028	7.98771028	7.98771028	7.98771028	7.98771028	7.98771028	7.98771028	7.98771028	7.98771028	7.98771028	7.98771028	7.98771028	7.98771028	7.98771028	7.98771028
NFS1	8.553443384	9.098012976	7.864230956	8.54715256	8.05899381	7.943072924	7.24122614	7.710793412	6.70082559	8.05384181	7.399947337	8.22154862	9.276420995	7.693896633	7.643131785	7.66427375	7.90651982	7.790654626
PKN0K1	8.118177034	7.444704863	8.495111387	7.444704863	8.495111387	7.444704863	8.495111387	7.444704863	8.495111387	7.444704863	8.495111387	7.444704863	8.495111387	7.444704863	8.495111387	7.444704863	8.495111387	7.444704863
ZNF721	7.162578247	7.416880934	8.44912442	8.082455404	8.297975488	7.37486941	8.061597022	7.727899323	8.148093919	7.953205991	8.28813295	7.825159942	8.194892465	6.790083873	7.547976309	8.155364112	7.694906188	7.948125734
ZBED4	7.846372582	8.645803083	7.910274914	8.042812905	8.295377251	7.806899923	8.295377251	7.806899923	8.295377251	7.806899923	8.295377251	7.806899923	8.295377251	7.806899923	8.295377251	7.806899923	8.295377251	7.806899923
SIC25A2S	7.40323667	5.528057275	6.410324121	6.951238194	7.925295559	8.041609419	7.78663653	8.438781366	8.22473153	7.864859893	7.996875678	6.90067448	6.811533151	5.562952842	8.123081596	7.98899479	6.983341731	7.669931974
MANEAL	7.724375647	7.805375755	8.417790874	7.613790874	7.970939194	7.902974358	7.542979704	7.654065821	7.923240273									

NEK8	7.258348701	8.019639608	7.284460663	7.763674358	7.619535014	7.470462019	7.785442412	7.975280792	8.152529081	7.93502936	8.01128979	7.346921821	7.819145381	7.827190716	7.792175596	8.021381064	8.231767212	7.54778239
RAB3B	7.529953716	7.64459546	7.697150633	7.813948026	7.408905031	7.796993475	8.100575716	7.669625475	8.28607408	7.8965253	8.07734373	7.754267735	7.962015827	8.295611407	8.216032166	7.620998938	8.224353968	7.770656367
PTP88	7.770728306	8.197581234	7.8288005	7.839252918	8.14785921	7.791294872	8.265776665	7.647834898	7.901545314	7.665294504	7.905848726	8.60671353	7.962015827	8.295611407	8.216032166	7.620998938	8.224353968	7.770656367
MTG2	7.743763821	7.507614336	7.513747433	7.78867635	8.444159114	7.66255109	8.027183127	7.562605865	7.97579857	7.75301458	7.994874326	7.89485681	8.71727572	8.164224597	7.207130512	7.921113663	7.71796952	7.821457513
RAP85	7.07265432	7.82038863	8.101021808	7.87813879	8.293629654	8.293629654	8.293629654	8.293629654	7.792057963	7.892057963	8.016646487	7.850177089	8.135400224	7.78613598	7.693161697	7.74335877	7.47385379	7.626243239
DCS2	7.276934825	7.786972865	8.487298675	7.566717265	8.15528841	8.007719799	7.84079823	7.564762169	7.81320059	7.73085352	7.993817527	8.45555945	8.089624237	8.051492373	7.110316691	7.54561421	6.982724499	7.676222589
SE13	7.771006993	8.558283365	8.591573324	7.306499444	7.886412645	7.467844636	7.518380085	8.738776211	8.703407767	7.65609897	7.908295266	7.611459872	8.05233671	8.578159002	8.109834087	7.847253111	7.999834132	7.515399387
RNF111	7.810203799	7.386768229	7.386768229	7.302109644	7.506427085	7.7999817	7.595266647	7.595266647	7.595266647	7.926065568	7.704911999	8.135855076	7.6618575	8.586171606	7.703224302	7.866199769	7.753340324	7.808744758
NAA25	7.304259347	7.443465706	7.664628842	8.175091933	7.74507779	8.295028839	5.936182739	7.810008807	7.835330859	7.797439603	7.630219139	8.578202025	7.839525746	7.462204903	8.097590419	8.316594466	7.998337642	7.96875514
AARS2	8.181113623	8.079297652	8.079297652	8.181113623	8.181113623	8.181113623	8.181113623	8.181113623	8.181113623	8.181113623	8.181113623	8.181113623	8.181113623	8.181113623	8.181113623	8.181113623	8.181113623	8.181113623
SIC25A43	7.748610077	7.802260855	7.802260855	7.748610077	7.802260855	7.802260855	7.802260855	7.802260855	7.802260855	7.802260855	7.802260855	7.802260855	7.802260855	7.802260855	7.802260855	7.802260855	7.802260855	7.802260855
MYO9A	8.173256589	7.339421036	8.466624656	6.079011993	7.240471765	7.77440849	6.134728316	7.398429684	8.155256278	8.23846829	7.504290604	6.42638258	8.83570248	7.432418516	8.656184188	8.389210612	8.15992698	7.622174916
SK16	8.121665249	7.24562729	7.631053395	8.562315883	8.418334134	8.439490719	7.233315218	7.553876122	7.65353203	7.786590504	8.473820276	8.01534827	7.627360836	8.19470081	7.909747199	7.221085353		
CIJUA1	8.124665483	8.260354298	8.245451845	7.090524465	7.870635861	8.610941215	7.8422607	6.919717132	7.585823342	7.454098522	7.667392837	8.655711693	8.116450715	8.578792822	6.904227641	7.600270032	7.48035571	7.746942814
FXI06	8.268820821	7.104705653	7.390837607	7.507851624	7.847186801	7.662407799	8.201313493	7.623849895	8.039303351	8.77219477	7.670803821	8.021738651	7.761345671	7.856148005	7.704235695	7.706991519	7.942724512	7.811203859
WWP1	7.074881435	6.806309994	6.627134916	8.486452173	7.474226339	7.845993752	7.795688989	8.214753488	7.60839196	8.233435166	7.849614563	7.806902376	6.926472289	7.689177499	8.354678779	7.334927895	8.318085234	7.824355451
TASP1	7.891157364	7.529289845	7.71866852	6.695078869	7.179479212	8.073489648	6.489626148	7.594519649	8.060388855	7.689645474	7.762801447	8.332576881	8.100638711	6.081703773	7.827994102	7.880237676	8.083131349	7.773187868
ZNF184	7.398901112	8.218491434	8.006841349	7.862781075	7.85941529	8.132284796	7.74068983	7.406899808	8.193966568	7.725147832	7.116724526	5.714437634	8.390210336	7.538312041	7.993114947	6.525283832	7.132757607	7.992781025
TFE3	8.113208008	6.30895917	7.40122581	8.055632023	7.727595406	8.137377004	7.871657135	8.101440573	8.027970927	7.72079927	7.170815536	7.259806919	7.426564847	8.081358292	7.619907082	7.602596959	7.687779713	
ABH13	8.197485217	7.735286663	8.717028881	8.483799732	7.847263196	8.019633026	7.514343253	7.756222118	7.901749158	7.901749158	7.403980032	8.377582457	8.269694593	7.870059429	7.645736607	7.466378645	7.742489946	7.806534261
ZNF250	7.776504548	8.494651388	7.257115649	7.4707731978	8.035936883	7.868014394	8.149388373	7.904505644	7.779387689	7.953808527	8.395980547	7.75196226	7.495320201	6.147998415	7.819459554	8.022397355	7.7556312	7.405053539
PRRC24	8.163644002	7.938805567	7.507773911	7.638046177	7.70256485	7.943097906	7.71051961	7.762034433	7.762034433	7.762034433	7.762034433	7.762034433	7.762034433	7.762034433	7.762034433	7.762034433	7.762034433	7.762034433
PUS3	8.442435561	8.330414355	7.404820057	7.805974848	7.973541703	8.426718767	7.936467998	7.724156743	7.768556817	7.741301399	7.789729126	8.770611565	7.443279018	7.726986807	7.042998416	8.385434537	7.924641109	7.50112639
SCIN	7.85515759	9.17053576	9.3902738	7.773717196	8.3272475	7.296848908	8.071141449	8.19240195	7.773717196	7.553541174	6.602412078	9.133021427	7.21610941	7.411942839	7.539028133	7.951428339	7.951201396	7.951201396
PTP92	7.958738145	7.269921373	7.794752551	7.855520002	7.486321966	8.087300404	7.16875373	7.56056508	6.6932446	7.6932446	7.93014936	7.009152949	6.74502152	7.794582572	7.134186366	7.896620716	8.059646989	7.747788622
CTNS	7.995365258	7.056605459	6.444520503	7.10763902	7.439486607	8.984976954	7.79348691	8.853888921	7.795616224	7.771164392	7.62175628	8.505750184	8.140283653	7.805463883	7.685231507	7.802239748	7.472792744	7.544543684
KYAT3	7.986231658	7.684258868	7.554096049	8.007138972	7.627131272	7.364679453	8.010313519	7.798117436	8.236678299	7.785601249	8.063472853	8.559496174	6.231473143	6.532252912	7.996241659	7.789286386	7.495100502	8.316502094
ITPK	6.584954337	8.543510211	7.978706117	7.543510211	7.978706117	7.543510211	7.978706117	7.543510211	7.978706117	7.543510211	7.978706117	7.543510211	7.978706117	7.543510211	7.978706117	7.543510211	7.978706117	7.543510211
PAWR	7.806304335	7.286617071	8.403363176	8.537413926	9.02219025	8.264851115	8.456706785	7.924179538	8.144675461	7.77953167	7.719233904	6.47828283	7.258721399	7.190437533	7.844984794	7.98849852	7.539693123	7.612552716
LBH	7.021563079	7.408675387	7.180008455	8.282666243	7.814396419	8.770521995	7.855214794	7.770521995	8.14338093	7.632893546	8.120857881	8.01549169	7.30299051	7.524519095	7.923792207	7.603995521	8.04802676	7.803232391
COG7	8.090179396	7.051658709	7.807211574	7.81631342	7.678732322	7.707700828	6.821898875	7.659462116	7.707700828	6.821898875	7.659462116	7.707700828	6.821898875	7.659462116	7.707700828	6.821898875	7.659462116	7.707700828
STP61	7.63431704	8.717401198	8.373011296	8.717401198	8.373011296	8.717401198	8.373011296	8.717401198	8.373011296	8.717401198	8.373011296	8.717401198	8.373011296	8.717401198	8.373011296	8.717401198	8.373011296	8.717401198
ZNF44	8.09466023	8.671222053	7.702059099	8.079982133	7.239915161	7.537887207	6.771459887	7.919059441	7.973167271	7.552880376	7.919059441	7.973167271	7.552880376	7.919059441	7.973167271	7.552880376	7.919059441	7.973167271
SKX2P	7.954856485	8.218212711	7.572392997	7.796200171	6.279389044	7.2312373	5.800212622	8.020783413	7.572392997	6.279389044	7.2312373	5.800212622	8.020783413	7.572392997	6.279389044	7.2312373	5.800212622	8.020783413
CP10	7.975804574	7.978097247	7.732711324	7.978097247	7.732711324	7.978097247	7.732711324	7.978097247	7.732711324	7.978097247	7.732711324	7.978097247	7.732711324	7.978097247	7.732711324	7.978097247	7.732711324	7.978097247
AT7	7.322691889	8.244975794	8.086732222	7.904904535	7.224688209	7.815239721	7.263215243	7.765906521	7.993832754	7.329070124	7.607881924	9.20041908	7.426004341	8.39178394	7.889065185	7.484607337	7.723315307	8.401421058
SRXN1	7.999075907	8.563444158	6.938716195	7.999075907	8.563444158	6.938716195	7.999075907	8.563444158	6.938716195	7.999075907	8.563444158	6.938716195	7.999075907	8.563444158	6.938716195	7.999075907	8.563444158	6.938716195
SMNDC1	8.359525156	7.544646828	7.349716322	8.182612662	7.778191889	7.418503117	7.617374882	7.840085133	7.97167515	7.57109423	7.96357472	8.321163046	8.102138544	8.44602893	7.802461839	7.477855121	7.691418623	7.677679294
PPM1F	7.300788604	7.200786068	7.993409585	7.200788604	7.993409585	7.200788604	7.993409585	7.200788604	7.993409585	7.200788604	7.993409585	7.200788604	7.993409585	7.200788604	7.993409585	7.200788604	7.993409585	7.200788604
CDKN2A2P1	7.826779317	7.825439323	7.733464293	7.733464293	7.733464293	7.733464293	7.733464293	7.733464293	7.733464293	7.733464293	7.733464293	7.733464293	7.733464293	7.733464293	7.733464293	7.733464293	7.733464293	7.733464293
ABCL10	7.975879827	7.925779827	7.451971246	7.740671059	7.81432621	7.63042506	7.599061969	7.973736243	7.740671059	7.81432621	7.63042506	7.599061969	7.973736243	7.740671059	7.81432621	7.63042506	7.599061969	7.973736243
TRIM6	7.815492273	7.885780245	8.078191831	7.38393334	7.996060654	8.367240861	6.946252633	7.72058452										

MPZ13	5.84359876	7.61128297	5.834636324	7.784922982	6.826067878	8.119052045	7.396758657	7.704918494	8.74785491	8.042657014	8.393113165	7.73804038	8.579958032	7.464395226	7.805852667	8.453438865	7.756824199	8.31463077
SPATZAL	7.500142608	7.99440471	7.180873061	7.333942868	7.851953135	8.017808926	7.74273147	7.536491419	7.159287141	7.79856647	7.063410114	7.423217347	8.058642803	7.93813139	7.865129139	7.56002459	8.025452464	7.856502322
DCTP11	8.256572691	8.466328419	7.697145722	8.284622596	8.255252383	7.82761668	7.101398852	7.184425492	7.605488262	7.317144996	7.336643069	8.352207821	8.058541689	8.026666913	7.105435832	7.572509693	7.421415267	7.736502322
THS19	7.131369949	7.619610235	5.597714347	5.983031114	6.566803068	7.184420545	7.606138887	8.030295941	7.695361325	7.674034035	7.71100609	7.726858181	9.023432171	8.022221599	8.589138434	9.359996337	8.44852268	8.59416154
EMC1	7.402799679	7.402799679	7.402799679	7.402799679	7.402799679	7.402799679	7.402799679	7.402799679	7.402799679	7.402799679	7.402799679	7.402799679	7.402799679	7.402799679	7.402799679	7.402799679	7.402799679	7.402799679
Cher76	7.816742693	7.461437274	7.5025303	7.800205114	7.085467791	7.583467791	8.067388947	7.546730847	7.692740852	8.020473178	7.482592545	7.785858715	7.90011747	7.685523388	8.023316847	7.58929287	8.139702134	7.47849409
NHE11	8.165448096	8.371241984	7.705678039	7.851162178	7.906588764	8.506919958	7.889047669	7.456778893	7.81475641	7.28646149	7.480686814	7.901260187	9.568381351	8.109305278	7.061191943	7.416382183	8.000085408	7.554705504
MEM110	7.518581407	8.022781121	7.022781121	7.518581407	8.406808753	8.181658382	8.814838636	7.527862328	8.16988542	7.68043435	7.43991336	7.449048006	8.048994534	8.195129093	8.030565426	7.434973967	7.8631767	7.22282801
SLC2A	7.458393080	7.53813172	8.180633588	8.03023612	7.39536635	8.521700796	8.19516421	7.8167614	7.937833485	7.717086414	7.743991336	7.449048006	8.048994534	8.195129093	8.030565426	7.434973967	7.8631767	7.22282801
TFCP2	8.303040692	7.518581407	7.277372737	7.866801581	8.02032703	7.208228623	7.2094125	7.837633174	7.5700677	7.7006777	7.65118626	7.448831788	8.142959927	7.26698085	7.327962061	7.915585211	7.842413892	7.907161631
NU37	7.471695716	7.626472482	7.811908277	7.629701748	7.869691622	8.122447428	7.489059213	7.534903923	8.257019191	7.58087389	7.90518826	8.227984184	8.036145799	6.314836141	8.444745162	7.964891946	7.740108879	7.428631961
RP11-330H6	7.111848007	7.111848007	7.111848007	7.111848007	7.111848007	7.111848007	7.111848007	7.111848007	7.111848007	7.111848007	7.111848007	7.111848007	7.111848007	7.111848007	7.111848007	7.111848007	7.111848007	7.111848007
COMM2D	8.46054256	8.473415892	7.562613714	8.574416746	8.28604545	9.192489831	7.456385956	7.572159709	7.849808371	7.435808146	7.71669578	7.992827951	8.082347062	6.908152149	7.007720243	7.586258983	7.599448538	7.89095920
UMPS	7.036280769	7.916092425	8.611933901	7.916092425	8.137936945	7.59373719	7.986771735	7.583235353	7.560770927	7.537040392	7.818271726	8.679033719	7.640167425	7.88271526	7.253630313	7.105989303	7.5630313	7.5630313
MAP4K4	7.773436006	7.678203058	7.635786071	6.175143151	7.015936673	8.126656671	7.858266878	8.06135195	7.848235039	7.461560785	7.545075266	7.751265353	6.479971554	6.905469852	8.479341684	8.548998176	7.79308823	7.788542147
RANBP10	7.905487917	7.646286436	8.221629612	8.6221629612	7.531904578	7.481711768	8.202778016	7.937013635	7.490346993	7.811391635	8.003004707	7.735139522	6.495174387	6.117818557	7.788482136	7.693142378	8.108553876	7.675434376
MTERF3	7.610430729	7.965981035	8.29496964	7.610430729	7.610430729	8.332366387	8.087618738	7.452914718	7.558949446	7.804329411	7.403100356	8.332366387	8.9746534	9.040172525	7.235533566	7.856724584	7.18472789	7.666750591
ACSM3	8.048544038	8.23222542	7.725991518	8.006454795	8.029460659	8.029461684	7.484123812	7.43300237	7.64228286	7.64228286	7.472148078	7.940246488	7.821695389	7.526304317	7.114494885	7.722132119	7.788785966	7.788785966
JMUD7-PLA2	7.555558601	7.129923557	7.727967399	7.555558601	7.129923557	7.316803953	7.804631193	8.263035254	8.44848421	7.61349577	8.042376551	7.16336282	7.13442973	8.6790419	8.142660421	7.865099404	7.865099404	7.865099404
BCAT2	7.728916238	7.282331273	7.66693611	7.728916238	7.66693611	7.483374983	8.19057223	7.741597308	7.716441833	7.809672445	7.761406372	7.96134528	8.002350261	7.256407772	7.54163831	7.765722397	7.84055049	7.358619001
ACAT2	7.853567826	7.885163264	8.02882624	7.75582492	6.687572957	7.837908788	7.76447625	6.99285089	7.862041765	8.44533544	7.610636314	8.844513077	8.050140475	7.291632813	7.353259477	7.73434777	7.159480007	7.969936852
GSCH	8.221751369	7.762054127	7.319328183	7.515485398	8.415357372	8.461606416	8.328083853	7.411570586	8.854231979	7.756325427	7.886667917	7.455141293	8.02331072	7.157824347	7.5908253	7.95183419	7.505574692	7.505574692
GANC	7.051783903	7.051728967	7.671037696	7.051728967	7.671037696	7.46795105	7.627298864	7.774012892	7.46795105	8.052549478	7.632983071	7.89798653	8.46054436	8.200782432	7.87028063	7.74072719	8.011480305	7.652519239
ARL17B	8.370563311	7.767128435	7.762306999	8.085601326	7.726306999	7.747517578	7.516958525	7.455809421	7.563716283	7.741847113	8.06442713	8.091421945	8.107659256	7.327367487	8.017865118	7.659691363	7.680570734	7.680570734
ZNF830	7.203650018	7.767140252	7.927675208	7.85431032	6.764185899	7.95090468	8.090157915	7.835676301	7.918889832	7.610708038	7.59062561	8.06179588	8.201798133	6.193807558	7.668396703	7.714155591	7.54335367	7.923360396
RCB2B	8.624165231	8.722442019	7.474503426	8.314104948	7.399420433	5.743974179	7.985371149	7.650297063	7.98411731	8.25649447	8.16148968	8.09119276	6.116532687	7.082934294	7.805579604	7.494915004	7.54335367	7.54335367
UBR1	8.50295792	8.50295792	8.50295792	8.50295792	8.50295792	8.50295792	8.50295792	8.50295792	8.50295792	8.50295792	8.50295792	8.50295792	8.50295792	8.50295792	8.50295792	8.50295792	8.50295792	8.50295792
TMEM51	8.982204031	8.684068906	8.982204031	8.982204031	8.982204031	8.982204031	8.982204031	8.982204031	8.982204031	8.982204031	8.982204031	8.982204031	8.982204031	8.982204031	8.982204031	8.982204031	8.982204031	8.982204031
LTK	7.410292128	7.21198475	8.02763357	8.224849311	7.801782511	7.650090458	6.834034667	8.139399365	7.69935139	7.689490971	7.486231623	7.37002589	9.166962065	8.0382663	7.938774663	7.533446607	7.979607111	7.887660131
VCL	7.805228075	7.631151135	7.617890661	6.537031264	7.871860662	7.679379853	7.968052115	7.679379853	7.968052115	7.896609465	7.54445633	6.55067645	6.226655545	8.377277671	7.76663896	7.74261153	7.76663896	7.76663896
PHF14	7.501348894	7.772641118	7.938991796	7.915877716	7.736496816	7.383183751	8.23719226	7.810146448	7.645323433	7.607415676	7.650857263	7.728562774	7.852666059	7.783473625	7.457665644	7.552349785	7.940591816	7.576855557
LMNB2	7.646622174	7.646622174	7.646622174	7.646622174	7.646622174	7.646622174	7.646622174	7.646622174	7.646622174	7.646622174	7.646622174	7.646622174	7.646622174	7.646622174	7.646622174	7.646622174	7.646622174	7.646622174
SGSM2	6.884321682	6.884321682	6.884321682	6.884321682	6.884321682	6.884321682	6.884321682	6.884321682	6.884321682	6.884321682	6.884321682	6.884321682	6.884321682	6.884321682	6.884321682	6.884321682	6.884321682	6.884321682
UBR6	7.464097677	8.245198411	8.255806712	7.464097677	8.245198411	8.255806712	7.464097677	8.245198411	8.255806712	7.464097677	8.245198411	8.255806712	7.464097677	8.245198411	8.255806712	7.464097677	8.245198411	8.255806712
PP2R2B	8.331674033	8.331674033	8.331674033	8.331674033	8.331674033	8.331674033	8.331674033	8.331674033	8.331674033	8.331674033	8.331674033	8.331674033	8.331674033	8.331674033	8.331674033	8.331674033	8.331674033	8.331674033
CASD1	6.827662323	6.789986286	6.789986286	6.827662323	6.789986286	6.827662323	6.789986286	6.827662323	6.789986286	6.827662323	6.789986286	6.827662323	6.789986286	6.827662323	6.789986286	6.827662323	6.789986286	6.827662323
VHNAH	7.702007862	7.93456679	8.080187299	7.847547431	7.91458484	7.766297482	7.84624095	7.540992111	7.149388121	7.439287651	8.035794659	7.212053194	6.144103283	7.593085447	7.501794183	7.91864913	7.769542323	7.769542323
EP812	8.003662153	7.756032162	8.106049616	7.516373269	7.913638128	7.864257315	7.721581938	7.517458889	7.68819963	7.744708981	7.379531768	7.915040067	7.597903783	8.066641538	7.625692152	7.2044273	7.827775601	8.181569234
PNF2	7.889322123	8.129469878	8.470398301	7.889322123	8.129469878	8.470398301	7.889322123	8.129469878	8.470398301	7.889322123	8.129469878	8.470398301	7.889322123	8.129469878	8.470398301	7.889322123	8.129469878	8.470398301
ILR8	7.966975123	6.162749009	8.18513996	8.09447356	7.284135872	7.489541198	8.305944048	8.426472496	7.609665809	7.88966756	8.75456046	7.608870804	6.986620305	6.313487501	8.359815484	7.565958988	7.371868004	8.167796077
PURB	6.95293923	8.105707602	7.215717048	8.10647252	7.558330378	8.0194588	7.07726023	7.889762968	7.79632282	7.79632282	8.75632067	7.502325456	6.392318032	7.194369442	7.964794925	8.104899809	7.66166402	7.702978413
PCP1	8.18295792	7.892793925	7.892793925	8.18295792	7.892793925	8.18295792	7.892793925	8.18295792	7.8927									

RAPGE6	7.257052724	8.412391677	7.228626667	6.972859645	7.541523086	7.441132256	8.325471863	7.969729167	7.827425633	8.287330013	7.746683886	7.519975006	7.276624618	7.997368983	8.437800302	7.707871836	8.135739566	7.681860254
VWASA	6.753819255	5.568015616	6.795026778	6.953640509	6.197796531	7.776338009	7.802446019	7.938277772	7.674496322	8.029376717	7.320028292	8.175106059	7.948074336	5.831531278	8.330763729	7.283817121	7.891825339	8.322878319
ARHGEF18	7.931338988	7.363084588	7.326058096	7.286353395	8.227681116	7.905259629	7.790527948	7.654725794	7.533017062	7.60250086	7.494098244	7.997324353	7.800680337	7.699086155	7.905655261	7.663881445	7.641959766	7.752187798
CONG1	7.527143888	7.112614995	7.39595976	7.955047317	7.731595432	8.232081635	7.872077265	7.599322467	7.487151198	7.753235852	8.344705891	7.04459397	7.718387151	6.720258802	7.394827184	8.339340902	8.1021911025	7.904322506
SDAC3	7.698712047	7.91648838	7.887712247	7.887712247	7.73463154	7.61746674	7.73463154	7.61746674	7.48539046	7.730407707	7.62924428	7.83054504	8.13817016	8.00270579	7.482090442	7.57374876	7.76802569	7.6796849
PLKZ	7.314262797	8.017623215	8.094895104	8.094895104	8.238836712	8.779906354	8.298282654	7.708521651	7.72108006	7.72108006	7.96251286	6.66126791	7.726637578	8.60685218	7.868661438	7.86265168	7.762617188	8.04177272
TRIP6	8.038971378	8.065477347	7.358850485	8.134738142	8.663530887	8.273596108	8.035167268	7.373439682	7.653792117	7.589792704	7.565081213	8.218229018	7.407745953	8.401586334	7.72566131	7.723750457	7.352034103	7.957810531
NORC2	7.142328284	6.994643414	7.629696447	7.629696447	7.444109263	8.05403875	8.05403875	8.05403875	8.145315725	8.145315725	7.65093694	6.859898913	7.122315452	6.671997875	7.931626551	7.921238766	7.798270776	7.916689894
APBB1P	8.343210086	7.546244295	7.756733937	8.154083153	7.690701892	7.504109279	7.781902283	7.554462763	8.016513137	8.016513137	7.5655061	7.86042864	7.845720292	7.889950108	7.902782513	8.702002707	7.63215611	6.927746859
DDA1	7.556234982	8.157026513	6.671345499	7.714540974	7.721495718	8.33938387	7.688290015	7.688290015	7.604406472	7.604406472	7.689878283	8.031342696	7.545881062	7.725036403	7.766503479	7.706881662	7.55646461	7.912179135
COAS2	7.982704238	8.49390734	7.849390734	7.849390734	8.170112019	6.828558448	7.99029403	7.4644142354	7.870084355	7.870084355	7.620959322	7.445420138	7.923588959	7.444236002	7.731092776	7.699208602	7.646684825	7.646684825
CSRN5	7.754849991	5.556924008	5.59316901	7.01375389	7.568391212	8.221499846	8.10392159	8.353047551	8.669905137	8.669905137	7.65264428	5.998678946	6.714903067	8.996995941	8.864282448	7.710610961	7.694251618	7.732210771
DMAS1E11	8.60602132	7.444031268	7.664756608	8.057569528	8.04215628	8.033408344	7.77813241	7.583273287	7.62754866	7.62754866	8.12321494	6.162302353	6.238545643	7.524106417	7.409959784	5.81331263	7.797133902	
CHD	7.482487976	7.744325629	8.680164622	7.744325629	7.40993510	8.202212749	7.130265492	7.726739924	7.452369475	7.452369475	7.75536945	7.995359332	8.35807908	8.30647592	7.761571748	6.659957306	7.934163723	7.680527448
ZDHC17	7.427491013	7.558703623	7.506179133	6.315746113	8.293421492	7.653753983	8.83110068	7.658872703	7.718810068	7.718810068	7.158584451	7.771886066	8.163179722	7.283111803	8.249278762	7.623462265	8.269703806	7.66654661
EPAD0	7.688392833	7.684667234	8.245362228	7.757572632	7.530837173	7.7401702	8.244807337	7.988359944	7.774986724	7.774986724	7.646324909	7.146280772	7.173941652	7.696965575	7.59045207	7.863088604	8.355175553	7.684079586
RPA41	7.57891218	8.207411387	7.274526786	8.11775995	6.92691648	7.878766526	7.743082487	7.70180373	7.73510002	7.73510002	7.361413473	6.663157647	6.881002678	8.015856849	7.314969631	8.096555044	7.54409749	
TP31NP2	8.217053963	6.199416365	7.472119288	7.807572566	7.547123708	7.219732667	7.62818054	8.024294255	7.841042028	7.841042028	8.291111217	7.683543137	6.881799109	7.916914889	8.265914842	7.502556268	7.35662333	7.786279372
METL2A	7.725688991	7.825520772	8.184830984	7.901827278	7.49434316	7.457509262	6.019797759	7.786393755	7.546849275	7.546849275	7.34107364	7.954843628	7.946327583	7.144349223	7.704655931	7.569217001	7.802038881	7.706506336
RPA3	7.834372545	8.552780762	7.657288027	7.071241126	7.530594465	7.955692856	8.85347163	7.71253809	7.332047623	7.332047623	7.613889226	7.875878905	8.46687193	7.126351012	7.807303648	7.581105444	7.847480954	7.6798649
SC01	8.060921733	8.715706235	7.408569977	8.199592308	6.537467053	7.591110879	7.105142001	7.776101654	7.876914047	7.876914047	7.509516793	8.17325778	7.705010002	8.304362808	7.680650419	7.318950927	7.743027281	7.65919381
COMMD9	7.842042062	8.425883653	8.156411048	7.572888306	7.525594919	7.748785378	7.10337618	7.224723882	7.700212117	7.700212117	7.478300725	7.859679532	8.237762382	7.903101913	7.665111565	7.405629736	7.67820643	7.791136038
ZHK3	8.02293025	7.794650016	6.762780053	7.875012064	5.688394542	6.341838112	8.181009727	7.391156766	7.056451005	7.056451005	7.787852857	7.641931866	8.80908452	7.4334787	7.571051667	7.944503162	6.636506831	7.917153632
ZNF26	8.015813152	7.801706922	8.381416104	7.730294345	7.767317235	7.30294345	7.692544932	7.371972225	7.142585373	7.142585373	7.948598557	7.29511528	7.743739918	7.107239354	5.539660037	7.496031737	7.496031737	8.059292397
IPO8	7.599882062	6.656898181	7.414532051	7.55589466	8.524666998	7.617999113	8.082802891	8.025798865	8.13435482	8.13435482	7.915448799	7.630106208	6.697661797	6.89351262	7.52642723	8.2798538	8.15642773	7.984327605
ZNF06	7.674266817	7.6772161	7.867177692	7.792543287	7.596093712	8.116208970	8.293414995	7.436401345	8.106114217	8.106114217	8.702340554	8.702340554	7.892982973	7.690556389	8.261388196	7.471362894	7.745458289	
MLL2E	7.666511691	7.175246624	7.966507402	7.400221527	7.548589597	7.685518041	7.717206203	8.340467956	7.565351614	7.565351614	7.70044898	7.72514829	7.511905311	8.013560537	8.175231001	8.837398989	8.661738244	7.631171969
MEM1J5A	8.433278645	8.489479644	8.433278645	8.489479644	7.820211015	8.320211015	7.820211015	7.820211015	7.764172956	7.764172956	7.94482581	7.948598557	7.29511528	7.743739918	7.107239354	5.539660037	7.496031737	8.059292397
GK5	7.499962624	8.560061022	7.487450879	9.080492833	8.112115908	9.080492833	6.562209993	8.350726824	7.089132214	7.089132214	7.405999424	6.426876286	8.241481485	8.478655415	8.352403726	7.09960825	8.29789008	8.452570359
ERICH1	7.8482196	7.809163525	7.700224828	6.994690221	7.721587594	7.721587594	7.721587594	7.721587594	7.721587594	7.721587594	7.77067814	7.382815065	7.78758298	7.331808927	7.705908282	7.74935998	7.65693044	7.74935998
MADL11	7.700224828	6.994690221	7.721587594	7.721587594	7.721587594	7.721587594	7.721587594	7.721587594	7.721587594	7.721587594	8.04193354	5.77520354	8.032239481	8.670849978	7.8331319	8.107780193	7.62426131	8.042106407
SVTL3	7.711951855	6.063052943	7.645160955	7.093919444	7.499778303	8.66910712	7.523891234	7.66910712	7.709370304	7.709370304	7.611925782	8.129572063	8.210210174	8.3329293	8.381243054	8.203842138	7.943756303	8.004229685
TUBR2A	6.957446841	8.261838881	5.53526206	6.529054614	7.464865515	9.13488413	7.340620024	8.806729647	8.780971136	8.780971136	8.110296859	6.796807509	7.839870996	7.580266376	8.995227889	9.320594817	7.33119377	9.874844443
SC1Z5A26	7.481262877	8.407280594	8.592721077	8.232586833	8.452193474	8.957399202	7.57591763	8.070290901	7.960448554	7.960448554	8.345197349	8.17398789	7.56889317	7.767957304	7.621538807	7.521538807	7.521538807	7.68446826
AGB15	8.016195974	8.510142789	8.121318957	8.306056008	7.572270027	7.492624566	6.998580304	5.869894721	7.818622762	7.818622762	7.884159215	6.65599274	7.80028382	5.98867641	7.146709733	8.767470723	7.83194263	7.638716193
BCAP29	7.713391061	8.503525857	7.267767692	8.503525857	7.267767692	8.503525857	7.267767692	8.503525857	7.267767692	7.267767692	7.83358031	7.959789717	7.515896296	8.084137327	7.91933577	7.651418474	7.720208952	7.741150125
HHDD3	8.09161908	7.999040888	8.00214448	8.03052327	6.487870076	7.55699555	7.741894182	7.458724439	8.84867228	8.84867228	7.671530952	8.022068764	5.989482708	7.332723488	7.326352965	7.600614497	7.635735717	8.29046674
PPA11	7.56883119	8.009823624	6.441077426	8.009823624	6.376118051	7.787266051	8.047653146	7.956613954	7.84638871	7.84638871	8.01473765	8.352525102	8.338036707	8.003755093	7.442179832	7.481734209	7.49654676	8.008612781
PHF6	7.635526864	6.302652094	7.377104966	8.169943781	8.108313021	7.393455181	7.98723354	7.70356434	7.711278838	7.711278838	8.12614359	8.660992513	6.479173172	7.696590726	8.18842926	7.680180306	7.78789792	7.676123367
KPK3P1	7.371558281	7.631255973	7.991148783	7.791780886	7.763860277	7.973554744	7.892924381	7.873865249	8.008672201	8.008672201	7.81160369	7.57076814	6.145995324	8.06170464	7.740571445	8.006409726	7.12245501	7.832759997
SC1Z5A26	7.481262877	8.407280594	8.592721077	8.232586833	8.452193474	8.957399202	7.57591763	8.070290901	7.960448554	7.960448554	8.345197349	8.17398789	7.56889317	7.767957304	7.621538807	7.521538807	7.521538807	7.68446826
AGB15	8.016195974	8.510142789	8.121318957	8.306056008	7.572270027	7.492624566	6.998580304	5.869894721	7.818622762	7.818622762</								

TEACNC	8.394889318	7.562359837	7.64684668	6.89512162	7.856986711	6.275330412	6.24412925	7.900886993	7.386744531	7.581581208	7.331123482	8.361857503	8.576023847	7.63564165	7.86207058	7.649140309	7.754902327	7.61758408
ZNF346	8.196416654	8.886639107	7.77083584	8.075670324	7.600042421	5.734610602	7.688679031	7.231189826	7.283260444	7.557190521	7.36186255	7.650021172	7.800067006	7.779278015	7.917328365	7.766466352	7.629697705	7.380526104
ILZ3A	7.204159487	7.231594904	8.04952398				5.90846613	8.561474329	6.725158214	8.193091708	8.055973836	6.641658879	8.380665785	7.780786008	7.802030092	8.308221073	7.422088509	7.956259244
FAM7FB	7.104066698	7.506209971	7.285979212	6.829030144	6.775444102	6.689479498	7.695320123	7.758590646	7.706287673	7.808339919	7.453449186	7.850548412	7.710277854	7.574043234	7.886386377	7.866899348	7.650729538	7.847683794
KCTD18	7.64102637	7.341758983	7.301758983	8.395638944	8.25389742	8.28503547	7.529419208	7.266299851	7.421098977	7.421098977	7.416135543	7.664071919	7.65144862	8.110865637	7.163121165	7.163121165	7.615271707	7.480875703
ANKS3	8.313022847	7.586245152	7.362364656	7.362364656	7.362364656	7.362364656	7.362364656	7.362364656	7.362364656	7.362364656	7.362364656	7.362364656	7.362364656	7.362364656	7.362364656	7.362364656	7.362364656	7.362364656
NEMP1	7.613896227	5.516384028	5.818532415	6.501580306	6.370094463	6.711593216	7.664209519	8.526566883	7.042655185	8.787684929	8.081357540	7.611877725	8.263330826	8.517766685	8.251610893	8.892043000	7.329412852	7.785238808
RICB8	7.566962146	7.273586278	7.761261501	7.273586278	7.273586278	7.273586278	7.273586278	7.273586278	7.273586278	7.273586278	7.273586278	7.273586278	7.273586278	7.273586278	7.273586278	7.273586278	7.273586278	7.273586278
DENN6GA	8.656577027	9.183805793	7.336310832	7.123317919	7.664776134	8.13890314	7.611570027	7.16884991	7.302823392	7.802279261	7.403243487	6.937816322	8.666137586	7.577007848	7.931828935	7.200871169	7.934695803	6.645312269
ZFP64	7.319177029	8.4877351215	5.469879092	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029
HEATR1	6.919887395	5.872534221	5.469879092	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029	7.319177029
MCM9	7.971877853	7.512066281	6.601804848	6.467006341	7.287109847	7.366426654	7.761547591	7.743535563	7.466936645	8.096575551	7.422603558	7.056663133	6.472152024	7.654280977	7.855637211	7.850947574	7.812601758	7.617055054
TRIM37	6.8103016	7.808510802	7.90906711	7.498182729	7.498182729	7.498182729	7.498182729	7.498182729	7.498182729	7.498182729	7.498182729	7.498182729	7.498182729	7.498182729	7.498182729	7.498182729	7.498182729	7.498182729
MGRN1	7.854045515	7.638517791	6.865095375	7.302823392	7.781216668	7.631405832	7.623541927	8.297907702	7.529484215	8.86911325	7.557828832	7.349343477	6.847260026	7.81042648	7.95023531	7.917236684	8.086411563	7.710659113
LAIR1	8.454765171	8.283194625	8.391562815	7.816921194	7.618727608	8.09156781	6.030220779	8.061021355	6.977975463	7.629421421	7.745380975	5.965789939	5.971349489	6.110235213	7.765700589	7.62014562	7.639738479	7.543366881
PPDR	7.911805143	7.143090944	8.506587675	7.442345422	6.555832463	7.126387262	8.127508473	8.406370127	8.412312084	7.958270308	7.685178154	5.88383668	6.600494721	7.12314089	8.437071827	8.221651282	7.887925364	7.381072455
FBOX34	6.095305174	7.540823366	6.962386971	7.57709716	7.57709716	7.57709716	7.57709716	7.57709716	7.57709716	7.57709716	7.57709716	7.57709716	7.57709716	7.57709716	7.57709716	7.57709716	7.57709716	7.57709716
ZNF780A	8.702976539	7.889770752	8.124689313	7.882504303	7.485453482	7.69602343	7.678059434	7.642118887	7.474327804	7.638119697	7.64290871	7.62945338	6.594898343	7.053463617	7.40111114	7.368323592	7.457414766	7.345331896
ZNF474	7.403746663	7.924440218	7.762971181	7.825886712	7.967147378	7.645864283	7.814242977	7.214935294	7.645864283	7.814242977	7.480354078	7.621616112	7.110213374	7.324055947	7.270684559	7.456923889	7.789219174	7.574569963
LD4A	8.011792474	7.29315211	7.387675043	7.699596729	7.140079672	8.042116623	7.684034353	7.598987877	7.498977746	7.137784692	7.165984169	7.440373351	8.180902469	8.46222858	7.415705002	7.667347186	7.675220177	7.661847073
HAML2	8.072835904	7.213745485	7.148790585	8.371717648	6.388998273	5.812576039	6.414066462	7.247173476	8.050747762	7.533642614	8.052119968	7.911155889	5.528892922	6.479821376	7.840055915	7.998979708	7.708166048	7.893232767
SPIN1	7.744167192	8.051533842	8.051533842	7.711059292	7.97750919	7.529015823	6.689178365	7.403901679	7.683458776	7.675186169	7.675186169	7.675186169	7.675186169	7.675186169	7.675186169	7.675186169	7.675186169	7.675186169
WDR47	6.145150718	5.989259913	6.969724137	8.065891698	6.133705802	8.046787316	6.967494411	7.654437243	7.95479967	7.630251632	8.09857204	7.34982938	7.110273843	6.34876495	7.645202369	7.909015103	7.632400791	7.788898932
PIGN	6.080115068	7.760307127	7.746205174	6.114413386	7.225661182	7.134847958	6.447307865	7.626192598	7.798085997	7.63523165	8.233772841	7.415445819	6.32879195	6.31563873	7.635462536	7.267591304	7.862983441	7.887809641
DCAF1	7.290183734	7.505039885	8.177249318	7.975096648	7.040784099	7.461415473	7.370760257	8.107240697	7.502725578	7.848650308	8.16561534	7.226027088	7.28699175	7.784257318	8.113400999	7.756440245	7.866141318	7.75339664
ASB6	6.957956983	7.573977146	7.3695486	7.3695486	7.3695486	7.3695486	7.3695486	7.3695486	7.3695486	7.3695486	7.3695486	7.3695486	7.3695486	7.3695486	7.3695486	7.3695486	7.3695486	7.3695486
GFZ1RD2	7.85502425	8.109989347	7.28851448	7.75463255	7.74430488	7.512393009	8.026806727	7.37596137	7.37596137	7.615424537	7.611904353	7.24062166	7.85424083	7.20020492	7.4246678	7.361561505	7.826390053	7.44523437
GT2	7.371363922	6.82513654	7.371363922	7.371363922	7.371363922	7.371363922	7.371363922	7.371363922	7.371363922	7.371363922	7.371363922	7.371363922	7.371363922	7.371363922	7.371363922	7.371363922	7.371363922	7.371363922
GP12	6.795035477	7.4471891	6.147002443	7.86282758	7.3555227	7.863657986	7.848633167	7.63747122	7.788720266	7.756556301	7.410882925	7.26024808	7.582352111	7.221445299	7.75130221	7.89028055	7.619789038	7.955939386
DDX20	7.120968017	8.34797707	7.889938758	7.638802654	7.12765421	7.721637332	8.057777049	7.550964933	7.506268874	7.41251121	7.187355905	7.88530188	8.181070392	7.09828335	7.70645207	7.952715716	7.390255874	7.760586877
SKP2	7.971874876	7.871867474	7.494824853	8.577397178	7.720195103	7.168100141	8.004262183	7.738035404	7.551373984	7.601466105	7.677886741	7.604204307	7.673017716	7.646997008	7.742435614	7.538923285	7.488711588	7.880160606
ESR1	7.946797974	7.023361955	7.719645997	7.818286684	7.599624477	5.74337477	8.276963009	7.921377314	7.701187166	7.407739648	7.933284715	6.73164244	6.46577798	7.700500281	7.830094599	7.580270191	7.651548232	6.937526918
ANKRD49	8.011485713	8.05852722	7.121439221	7.73022377	5.936146543	7.912551848	7.402955157	7.591510991	5.36845205	7.698859232	7.720034396	7.25028055	7.693661041	7.508889849	7.462032573	7.658872033	8.105116283	7.915716683
AP0EBCF	7.092923355	7.729642217	7.661358778	6.962816527	7.562460746	7.979594864	6.390405435	7.73066544	7.709249687	7.72603756	7.588722017	7.664769234	8.198731206	6.688928151	7.674149272	7.273188601	7.57966601	7.688843177
KCTD19	6.985582809	7.980756413	6.82513654	7.72511229	7.55073953	7.5815578	6.911296128	7.5815578	6.911296128	7.5815578	7.5815578	7.5815578	7.5815578	7.5815578	7.5815578	7.5815578	7.5815578	7.5815578
ZNF50D	7.568653174	7.87517373	8.795234639	8.795234639	8.795234639	8.795234639	8.795234639	8.795234639	8.795234639	8.795234639	8.795234639	8.795234639	8.795234639	8.795234639	8.795234639	8.795234639	8.795234639	8.795234639
IMP5E	7.712706777	6.969375433	7.237781589	7.817743895	8.6201248	8.006017528	7.594496392	7.561614764	7.713452181	7.767383811	7.51122657	7.2282226	8.356464106	8.115583298	7.854669699	7.421539706	7.586439039	7.653682306
TPP2	7.356716761	7.997888922	7.997888922	7.122484739	7.625121189	7.787373402	7.787373402	7.787373402	7.787373402	7.787373402	7.787373402	7.787373402	7.787373402	7.787373402	7.787373402	7.787373402	7.787373402	7.787373402
IP04	7.992288853	7.312718464	7.812908653	6.307561032	6.08736776	7.804131601	7.250204186	7.477659352	7.47766534	7.845549911	7.450831798	8.185816842	5.70382404	8.550373231	7.782115041	7.516215471	7.843034677	7.731782149
EEF2K	7.060558172	7.505814042	7.482945543	7.060558172	7.060558172	7.060558172	7.060558172	7.060558172	7.060558172	7.060558172	7.060558172	7.060558172	7.060558172	7.060558172	7.060558172	7.060558172	7.060558172	7.060558172
PGBD2	8.448029351	8.259036116	8.747760072	7.560133383	7.699714945	5.804673999	8.525389748	7.669592199	7.565790916	7.313232523	7.46546256	7.862804714	8.367187229	6.620425821	7.680545021	7.972753074	7.547389794	6.672346542
AN09	7.727387361	7.238677613	8.018295836	6.984071451	6.843845033	7.202903596	7.476761029	7.169779905	7.75039748	7.68089748	7.856251165	8.312						

IFR80	7.116744815	7.858448231	7.598750593	7.696488544	8.198407806	7.832499336	7.213475736	7.456327227	7.256856852	7.578066316	7.315775919	7.685043879	7.596592392	6.446645068	7.595920388	7.823167634	7.623660146	7.738233631
CBL	7.873743745	6.192739149	8.237782763	6.061443737	6.905248554	7.577625234	7.592830008	7.601046943	7.820175704	6.05494264	7.856727098	7.360100107	7.300609424	8.028281445	7.567241548	7.899948266	6.186188374	7.120060697
FRKP	7.945545305	7.816010124	7.014055582	7.392985126	7.48004448	7.40574547	7.709126265	7.776560987	7.778429648	6.849938208	7.538475506	7.727962481	7.437951627	7.183457905	7.819209563	7.609729952	7.394050532	
HCCF1	7.6381813803	8.070256179	6.986439996	6.976380215	7.10264418	7.713254888	7.13045686	7.699647079	7.505744537	7.719088488	7.729027583	7.753215064	6.713763145	8.623813683	7.437008989	7.556192613	7.720968616	7.399793776
UCFL	6.833714966	6.142346647	6.56374606	7.651455443	8.07047581	8.21911701	7.989215758	7.55046877	7.831101485	7.421984336	7.334398813	7.289450805	7.556644232	7.568612248	7.324415248	7.314147091	7.61111863	7.431111863
SPIN2B	7.770710621	8.02829536	7.700711125	7.678320025	7.278789853	7.115852824	7.115852824	7.681343147	7.550567787	7.486312027	7.605200375	7.261971121	7.771604369	6.939564420	7.639435909	7.233550509	7.699696744	7.655385846
UTP23	8.080661488	7.097100878	7.092152067	7.408837366	7.511382862	7.597709829	8.082797598	7.641728288	7.662154101	7.591855248	7.488326797	7.10880063	7.956724992	8.400037592	7.406068854	7.451039516	7.55568166	7.763194684
DNAI13	7.328041281	7.596601024	5.916636846	8.254520299	8.051358264	6.436770789	7.592588922	7.871431464	7.603637394	7.748162248	7.854710796	7.923136394	6.912458314	7.588713058	7.460560436	7.537633146	7.789098717	
GATA2B	7.074141603	8.584813687	7.799012516	6.954279835	7.350572391	8.155428121	7.348465784	7.602142093	7.346604109	8.85787712	7.48663068	6.62546143	7.750604183	7.5862407	7.987412844	8.789039835	7.8057290519	7.46265109
PHL3	8.100582994	8.046111203	6.565897448	7.336242959	7.435279911	7.025738991	7.407575034	7.565848584	7.832873499	7.779197622	7.543225528	7.749891711	7.626621046	7.102628508	7.444038267	7.829740244	7.724195156	
MOCS2	7.098508846	7.823549986	6.956796901	7.884221867	8.123859126	7.081272016	6.624486138	7.638935956	7.526200436	7.353833629	7.949155318	8.303936887	8.190731718	8.024274819	7.351460886	7.730719631	7.694400151	8.157322556
CACTN	7.600752887	7.928939318	7.203939737	8.24926986	7.802348427	7.783841278	8.22270342	7.335563382	7.755278503	7.338661795	7.86683462	6.298486331	7.575800473	7.685744591	7.39540432	7.778316247	7.539446672	7.136782302
WDR69	7.650958957	7.676234086	7.608498779	7.901925027	7.901925027	7.901925027	7.901925027	7.901925027	7.901925027	7.901925027	7.901925027	7.901925027	7.901925027	7.901925027	7.901925027	7.901925027	7.901925027	7.901925027
NOL3	7.960312322	8.08502626	6.195056414	7.179803053	8.279580961	6.442090474	7.238740087	7.533736378	7.77963041	7.662123647	7.784734762	7.515687104	7.385143581	7.617311715	7.366820096	7.534558831	7.93492719	7.167918559
LMK1	7.288031097	7.86378125	7.231614039	6.903057878	7.82780178	7.844005857	7.812601118	7.76442417	7.385789735	7.6442417	7.553530795	7.68175161	7.629601582	6.666646283	6.916813831	7.63267405	7.738112003	7.712326288
MLLT10	7.54474918	7.398281734	8.184968819	7.029038656	7.345834586	7.6385434	8.062317903	7.678764219	7.555413327	7.703289381	7.577592129	7.152888582	7.751511669	7.08594956	7.605316235	7.804117774	7.850484406	7.36914714
SHROOM1	7.516527059	7.6122072823	8.031160756	7.6122072823	7.6122072823	7.6122072823	7.6122072823	7.6122072823	7.6122072823	7.6122072823	7.6122072823	7.6122072823	7.6122072823	7.6122072823	7.6122072823	7.6122072823	7.6122072823	7.6122072823
BTBD10	7.642906368	7.618373555	7.737343892	7.861029167	6.68091377	6.069930217	6.36787725	7.757198307	7.404204595	7.71166466	7.369021616	6.893893323	7.93738719	7.153447163	7.690546766	7.220930034	7.737194283	
SLC35D1	8.082355796	8.500430063	6.800244021	8.500430063	6.800244021	6.800244021	6.800244021	6.800244021	6.800244021	6.800244021	6.800244021	6.800244021	6.800244021	6.800244021	6.800244021	6.800244021	6.800244021	6.800244021
PCB1	7.504563401	7.704634131	7.965076397	8.260609429	7.300485016	7.532122951	7.478497502	7.571912534	7.875063620	7.057269146	7.51854532	7.641754007	7.716128804	7.409762245	7.539632851	7.267818322	7.444832234	7.720491869
GLT3	7.970306702	7.900224049	8.209991561	7.567428326	7.658031718	7.658031718	7.658031718	7.658031718	7.658031718	7.658031718	7.658031718	7.658031718	7.658031718	7.658031718	7.658031718	7.658031718	7.658031718	7.658031718
QXND1	7.458720094	7.503737744	8.078655091	8.268285795	7.983645419	7.739397425	7.739397425	7.739397425	7.739397425	7.739397425	7.739397425	7.739397425	7.739397425	7.739397425	7.739397425	7.739397425	7.739397425	7.739397425
USP53	7.624212307	7.643370691	7.577303603	7.281417101	7.546782111	7.730817663	7.342748939	7.848694883	7.766272947	7.414463714	7.948291969	8.091360489	7.506092315	7.146841086	7.600959917	7.534208249	7.458832064	7.65794801
SLC12A9	7.725454608	7.579717717	6.729791309	7.725454608	7.579717717	7.579717717	7.579717717	7.579717717	7.579717717	7.579717717	7.579717717	7.579717717	7.579717717	7.579717717	7.579717717	7.579717717	7.579717717	7.579717717
ZNF70	7.613579067	6.126113143	7.979272269	6.450648237	6.9981091	7.580014327	6.292974529	8.020210443	7.889747618	7.889747618	7.889747618	7.889747618	7.889747618	7.889747618	7.889747618	7.889747618	7.889747618	7.889747618
C12orf10	7.31719067	7.69374448	7.39695988	7.69374448	7.39695988	7.69374448	7.69374448	7.69374448	7.69374448	7.69374448	7.69374448	7.69374448	7.69374448	7.69374448	7.69374448	7.69374448	7.69374448	7.69374448
MRP2	7.389393564	8.031464725	7.889159582	8.244130065	7.889159582	8.244130065	8.244130065	8.244130065	8.244130065	8.244130065	8.244130065	8.244130065	8.244130065	8.244130065	8.244130065	8.244130065	8.244130065	8.244130065
AMP4	7.330362448	7.830362448	7.830362448	7.830362448	7.830362448	7.830362448	7.830362448	7.830362448	7.830362448	7.830362448	7.830362448	7.830362448	7.830362448	7.830362448	7.830362448	7.830362448	7.830362448	7.830362448
ARM2	7.075762364	6.510626241	7.95122162	7.904135621	7.904135621	7.904135621	7.904135621	7.904135621	7.904135621	7.904135621	7.904135621	7.904135621	7.904135621	7.904135621	7.904135621	7.904135621	7.904135621	7.904135621
CACFD1	7.849342478	7.798322203	8.426981822	7.505745536	7.768717012	7.567850603	8.336262002	7.498579514	7.517950476	7.460515747	7.723649366	7.469949853	8.644048057	7.714873574	7.319294314	7.577267524	7.46803589	7.423225207
AMZ8	7.809548276	7.070441822	8.489528721	8.789518876	7.070441822	7.070441822	7.070441822	7.070441822	7.070441822	7.070441822	7.070441822	7.070441822	7.070441822	7.070441822	7.070441822	7.070441822	7.070441822	7.070441822
ST7L	7.434957394	8.06001389	7.65959602	7.384235687	7.240431878	7.347846022	6.834572425	7.742881298	7.742881298	7.742881298	7.742881298	7.742881298	7.742881298	7.742881298	7.742881298	7.742881298	7.742881298	7.742881298
DDX58	7.428629159	7.974989597	6.989345119	7.974989597	6.989345119	6.989345119	6.989345119	6.989345119	6.989345119	6.989345119	6.989345119	6.989345119	6.989345119	6.989345119	6.989345119	6.989345119	6.989345119	6.989345119
COX19	7.187836447	7.921037711	7.740535626	8.194130638	7.66846073	7.381980456	7.626615312	7.5441238	7.396053052	7.29548256	7.522314263	7.792265839	7.444927586	7.360174397	7.633711547	7.482655303	7.999156793	7.886891501
TRHML	7.180892919	7.593562919	8.035529138	8.463729726	7.572401406	7.572401406	7.572401406	7.572401406	7.572401406	7.572401406	7.572401406	7.572401406	7.572401406	7.572401406	7.572401406	7.572401406	7.572401406	7.572401406
GLT3	7.340114307	7.340114307	7.340114307	7.340114307	7.340114307	7.340114307	7.340114307	7.340114307	7.340114307	7.340114307	7.340114307	7.340114307	7.340114307	7.340114307	7.340114307	7.340114307	7.340114307	7.340114307
MP11	7.743547711	7.507037362	7.099045887	7.074647248	8.146677648	7.404486280	8.86725052	7.715990769	7.492191808	7.95376452	7.54792322	7.782718826	6.039876269	7.31478017	7.621420655	7.644889152	7.444721977	8.772208798
THOC1	6.850638862	6.3162649	7.267344882	6.850638862	6.3162649	6.3162649	6.3162649	6.3162649	6.3162649	6.3162649	6.3162649	6.3162649	6.3162649	6.3162649	6.3162649	6.3162649	6.3162649	6.3162649
UHRF1BP1	7.355114303	8.096055887	7.90551854	6.939405478	7.271565291	7.487647767	6.048070097	8.013621197	7.433131713	7.881285051	7.826832942	6.447965542	6.602091688	8.098834538	7.866867035	7.681765448	7.678796709	7.387378225
LENG1	7.986409868	7.855230611	7.881861275	7.855230611	7.881861275	7.855230611	7.855230611	7.855230611	7.855230611	7.855230611	7.855230611	7.855230611	7.855230611	7.855230611	7.855230611	7.855230611	7.855230611	7.855230611
TMEM68	7.623608988	7.669678616	7.762625835	7.623608988	7.669678616	7.623608988	7.623608988	7.623608988	7.623608988	7.623608988	7.623608988	7.623608988	7.623608988	7.623608988	7.623608988	7.623608988	7.623608988	7.623608988
PRMT3	8.336067512	7.796494844	6.089547282	8.402376329	6.219720392	8.503922694	7.69992764	7.										

MBP	6.026534768	6.737186367	8.603180024	7.564451005	7.183808265	7.0131752	7.227461703	7.798944668	7.936555102	7.775025833	7.71699555	6.97215665	6.473900932	6.84181841	7.682503229	8.005106651	7.547430102	7.635162814
VGLL4	7.525743678	8.008786881	8.20874657	7.509845157	8.198212557	6.383504518	7.03816821	7.03816821	7.03816821	7.931872677	7.661982724	7.297853973	7.999527286	6.325465193	7.424019312	7.530871921	7.525255208	7.850940409
TLXNG	6.98348594	7.39715662	7.586047328	6.98348594	7.082597243	7.082597243	7.082597243	7.082597243	7.082597243	7.082597243	7.082597243	7.082597243	7.082597243	7.082597243	7.082597243	7.082597243	7.082597243	7.082597243
RAB35	7.362363679	7.81338666	7.77525202	8.001170058	7.932620569	7.863773231	7.932620569	7.863773231	7.932620569	7.863773231	7.932620569	7.863773231	7.932620569	7.863773231	7.932620569	7.863773231	7.932620569	7.863773231
RPS1	6.710346192	7.39841958	7.39841958	7.39841958	7.39841958	7.39841958	7.39841958	7.39841958	7.39841958	7.39841958	7.39841958	7.39841958	7.39841958	7.39841958	7.39841958	7.39841958	7.39841958	7.39841958
THG5	8.155323848	8.155323848	8.155323848	8.155323848	8.155323848	8.155323848	8.155323848	8.155323848	8.155323848	8.155323848	8.155323848	8.155323848	8.155323848	8.155323848	8.155323848	8.155323848	8.155323848	8.155323848
KDMA031	6.53373482	7.732551044	6.034689603	6.40820493	7.439763138	6.949867526	7.439763138	6.949867526	7.439763138	6.949867526	7.439763138	6.949867526	7.439763138	6.949867526	7.439763138	6.949867526	7.439763138	6.949867526
K10AA	6.952268683	7.565037648	6.952268683	7.565037648	6.952268683	7.565037648	6.952268683	7.565037648	6.952268683	7.565037648	6.952268683	7.565037648	6.952268683	7.565037648	6.952268683	7.565037648	6.952268683	7.565037648
NIPP181	7.911298794	7.973979614	7.245733679	7.528677695	7.23593072	6.995220561	7.22738534	7.753268749	7.642001095	8.265333417	7.493644398	7.577009292	6.853664721	7.300740075	8.089282784	8.099884141	8.786581855	7.242515704
HACD4	7.13119998	7.93992713	7.13119998	7.93992713	7.13119998	7.93992713	7.13119998	7.93992713	7.13119998	7.93992713	7.13119998	7.93992713	7.13119998	7.93992713	7.13119998	7.93992713	7.13119998	7.93992713
MBP	7.784741098	7.994462415	8.157610603	7.79099157	7.774187168	6.652791116	7.036299214	7.014244742	7.763878654	7.322512521	7.049800613	8.206663422	7.405350904	8.256285254	7.405350904	6.652457927	7.441973752	7.79099157
FXK08	8.110889847	7.819745673	7.210928263	7.764014338	7.003705228	7.851633562	7.417136976	7.294089898	7.221401129	7.154674172	7.334517699	7.779144122	7.782584203	7.250268002	7.860079774	7.727384857	6.968639116	7.761306416
DKX2	7.95322065	8.18151792	7.484645806	5.69409774	5.584519199	6.663999464	7.75455121	7.80074605	7.276793267	8.111051243	6.056696319	7.846020211	7.112388051	7.516900557	7.921210158	8.427967676		
FARS2	7.795120852	8.332077617	7.54313259	7.504284272	8.008995575	7.094305714	7.365191694	7.921896882	7.817890515	7.509701682	7.447121489	6.941093925	7.236853031	8.054806511	7.322516852	7.665022981	7.556795459	7.728539392
ELAC1	8.930281398	7.77026897	7.77026897	7.77026897	7.77026897	7.77026897	7.77026897	7.77026897	7.77026897	7.77026897	7.77026897	7.77026897	7.77026897	7.77026897	7.77026897	7.77026897	7.77026897	7.77026897
XVLT2	7.755487254	8.351029181	7.520268171	7.26782563	6.626153041	6.763226248	7.444609356	7.849055704	7.852449236	7.395780505	7.780975381	7.777442521	6.359506929	7.168526371	7.746847568	7.315770382	7.016056989	7.899696878
AKNA	7.568926756	7.374829732	7.069760312	7.568926756	7.374829732	7.069760312	7.568926756	7.374829732	7.069760312	7.568926756	7.374829732	7.069760312	7.568926756	7.374829732	7.069760312	7.568926756	7.374829732	7.069760312
NRARP	7.026424823	7.160468832	6.849124329	7.221742355	7.26504422	8.241959919	7.551688545	8.232782823	8.077592029	7.60682952	7.754766261	7.545873993	7.372540474	6.853483473	8.416986268	8.055375633	7.031346626	7.305447725
OSBP11	7.03862478	7.211158137	7.044626009	8.350108497	7.935021291	8.228577337	8.757997722	7.845063407	7.826839464	7.227570124	7.434990323	7.445727487	8.081823408	7.215444178	7.651597151	7.166702253	8.435141319	
CPD10	7.460121369	8.120178311	7.561297963	7.460121369	8.120178311	7.561297963	7.460121369	8.120178311	7.561297963	7.460121369	8.120178311	7.561297963	7.460121369	8.120178311	7.561297963	7.460121369	8.120178311	7.561297963
PATL2	8.083177992	6.415248928	7.170344162	7.170344162	7.170344162	7.170344162	7.170344162	7.170344162	7.170344162	7.170344162	7.170344162	7.170344162	7.170344162	7.170344162	7.170344162	7.170344162	7.170344162	7.170344162
QSL1	7.872213561	6.903707129	7.842479617	7.800183979	7.606351958	7.534651146	7.138689578	7.281963846	7.690460660	7.612389939	7.313946285	7.180419524	7.494321211	7.615900768	7.484378477	7.566884174	8.351695793	
PXKNX3	7.893807818	6.637426714	5.90371081	7.378288482	7.166766171	6.860875999	6.515832351	8.580941828	7.598475358	7.893614635	8.205898182	8.445291526	7.496839062	6.314364825	8.188424734	7.131718693	7.926963873	7.294386369
IKKE	7.521048272	7.627213349	5.67234551	7.521048272	7.627213349	5.67234551	7.521048272	7.627213349	5.67234551	7.521048272	7.627213349	5.67234551	7.521048272	7.627213349	5.67234551	7.521048272	7.627213349	5.67234551
TRAF6	6.805865766	7.006351456	8.907611908	6.805865766	7.006351456	8.907611908	6.805865766	7.006351456	8.907611908	6.805865766	7.006351456	8.907611908	6.805865766	7.006351456	8.907611908	6.805865766	7.006351456	8.907611908
ZCHC9	8.598485966	7.308532279	7.340874122	8.263549122	7.292737329	7.274458225	7.836427768	7.410668896	7.552457161	7.591609314	8.429209283	6.687724483	8.392113546	7.454138274	7.892975332	7.624184382	8.298153116	
PARD08	7.979256151	8.123478978	7.215709986	7.484703651	7.922400669	7.331174026	7.911177799	7.399202857	7.360053528	7.086191089	7.636727391	7.292762016	7.014923297	6.698906461	7.178333631	7.696208777	8.285001012	
APJ1	8.03913026	8.103194562	7.085189338	7.141558032	7.471559833	7.433595424	7.324393461	7.141558032	7.471559833	7.433595424	7.324393461	7.141558032	7.471559833	7.433595424	7.324393461	7.141558032	7.471559833	7.433595424
ALD0C	7.613353638	8.027878026	7.613353638	8.027878026	7.613353638	8.027878026	7.613353638	8.027878026	7.613353638	8.027878026	7.613353638	8.027878026	7.613353638	8.027878026	7.613353638	8.027878026	7.613353638	8.027878026
KMO	7.955508887	5.69900813	5.11211507	7.45339344	7.1153157	7.27685497	6.771177138	8.196486715	7.258785275	7.456965012	7.498039466	7.592292707	7.937254448	8.117188284	8.138151449	7.439294528	8.131047073	8.182825662
MRLP19	7.35654296	7.488400112	7.556256937	6.479972732	6.839740111	7.745311795	7.820372036	7.222181774	7.279059214	7.531271771	7.682186957	7.665624917	6.036361815	8.167117487	7.531384343	7.52858437	7.369539053	8.118350681
DZGH0	7.063808849	6.582573751	7.240870772	7.387324911	7.567534922	7.713862033	7.109500511	7.707304606	7.777044004	7.644996996	7.482323934	7.467016064	7.840215384	7.303940228	7.533912451	7.457112919	7.550266578	7.76472515
USP37	7.06560737	7.96525156	7.982453198	7.06560737	7.96525156	7.982453198	7.06560737	7.96525156	7.982453198	7.06560737	7.96525156	7.982453198	7.06560737	7.96525156	7.982453198	7.06560737	7.96525156	7.982453198
PKX	8.511019301	8.252018408	6.291874087	6.918243658	7.833659919	7.545225492	7.986053176	7.858600443	7.684281027	7.484774656	7.414408227	7.540019789	7.087295868	7.594227535	7.5423028	7.710208128	7.368535364	7.547700594
APJ2	8.03913026	8.103194562	7.085189338	7.141558032	7.471559833	7.433595424	7.324393461	7.141558032	7.471559833	7.433595424	7.324393461	7.141558032	7.471559833	7.433595424	7.324393461	7.141558032	7.471559833	7.433595424
ATF5	8.166100305	8.002756029	8.172223881	8.242657384	8.134729548	7.71371308	8.134729548	7.71371308	8.134729548	7.71371308	8.134729548	7.71371308	8.134729548	7.71371308	8.134729548	7.71371308	8.134729548	7.71371308
EBL	7.186322465	7.127222473	7.277341849	6.938576619	7.623053832	7.979069984	7.891656376	7.42254573	7.728712637	7.365295167	7.367519777	7.490567309	7.791263527	8.094474231	7.288274256	7.58978722	7.690092753	7.609960348
RPP25	8.151618672	7.685954574	7.625275669	7.452892901	8.29775618	6.687307082	7.46701815	7.710297953	7.46681173	7.710297953	7.46681173	7.710297953	7.46681173	7.710297953	7.46681173	7.710297953	7.46681173	7.710297953
ACAC8	7.280153471	7.410272774	6.713193724	7.528067425	6.86301466	6.322600317	6.516355934	8.024465988	7.66628659	8.12866691	7.55633333	7.217059885	8.455315193	7.783737397	6.833805676	7.75525246	8.253449286	7.394647345
CEP192	6.491769899	7.308391733	6.491769899	7.308391733	6.491769899	7.308391733	6.491769899	7.308391733	6.491769899	7.308391733	6.491769899	7.308391733	6.491769899	7.308391733	6.491769899	7.308391733	6.491769899	7.308391733
MFSD10	8.094803379	7.981172556	7.981172556	7.981172556	7.981172556	7.981172556	7.981172556	7.981172556	7.981172556	7.981172556	7.981172556	7.981172556	7.981172556	7.981172556	7.981172556	7.981172556	7.981172556	7.981172556
PTPN9	7.867465879	8.25987736	8.00207808	6.416155061	7.390352654	7.600295475	7.700295475	7.141136966	7.837682974	7.338657986	7.360098108	8.464668021	6.23471					

ANKR40	7.19682633	7.290718701	8.067143577	7.802713539	6.986848553	7.26422631	7.517602076	7.651846902	7.570928911	7.872380035	7.599132944	7.261250885	7.438453821	6.369235762	7.519572309	7.606011667	7.479526803	7.701961988
TUBAI	7.344076739	7.884799158	8.192012995	8.240319334	7.703585804	8.664975871	6.800135306	7.525483487	7.150194665	7.207756471	7.608336179	7.529061307	6.326026527	7.511601745	7.232252849	7.537172568		
DUKCA	7.633657939	8.058707642	7.175862124	7.175862124	7.67833654	6.030971404	7.993828425	7.537370693	7.304105115	7.799943329	7.007947681	7.499701605	7.968471177	6.048515834	7.2565251	7.977521334	7.631099775	7.35479114
ABHD14A-1P	7.56836794	7.524788734	7.250268631	7.861899201	7.32025543	7.844790883	7.830859915	7.217088877	7.331378929	7.535931551	7.510226404	7.001873627	7.983737839	8.390813979	7.007691596	7.281357245	7.496709673	7.807696753
TCB	7.052514727	7.938997756	6.400620768	7.938997756	7.938997756	7.938997756	7.938997756	7.938997756	7.938997756	7.938997756	7.938997756	7.938997756	7.938997756	7.938997756	7.938997756	7.938997756	7.938997756	7.938997756
MADL12B	7.316027287	7.619962616	7.924882527	7.316027287	7.316027287	7.316027287	7.316027287	7.316027287	7.316027287	7.316027287	7.316027287	7.316027287	7.316027287	7.316027287	7.316027287	7.316027287	7.316027287	7.316027287
DOHH	8.261318418	8.190103515	7.961013738	7.589268642	8.061843317	7.401800291	8.1164758	7.376887622	7.681200085	7.44073216	7.253258639	7.344677933	5.699975019	8.16297866	6.720590493	7.251690929	7.41993763	7.608353557
EXOSX	7.896353584	7.896353584	7.529062144	7.499655211	7.220159122	7.99400911	7.440219886	7.440219886	7.440219886	7.440219886	7.440219886	7.440219886	7.440219886	7.440219886	7.440219886	7.440219886	7.440219886	7.440219886
PAPOLG	6.874273305	6.795880027	6.975258076	8.20991043	7.585371165	7.668292749	7.442931155	7.663602166	8.068150858	7.38311315	7.876523204	8.003440086	6.839651746	6.998656317	7.17640253	7.913726261	7.748992845	6.942285423
ZNF430	7.366018838	7.366018838	7.400712987	7.366018838	7.366018838	7.366018838	7.366018838	7.366018838	7.366018838	7.366018838	7.366018838	7.366018838	7.366018838	7.366018838	7.366018838	7.366018838	7.366018838	7.366018838
MER3	7.494176754	7.246280883	7.117740317	6.697124454	8.019891135	8.435629542	6.5813959237	7.384145524	7.384145524	7.384145524	7.384145524	7.384145524	7.384145524	7.384145524	7.384145524	7.384145524	7.384145524	7.384145524
SDFH2	8.376686178	7.634888294	7.048987087	8.01841746	8.049412368	7.383410765	7.752121771	7.058256948	7.679286738	7.517857593	7.416517131	7.710106306	6.151443303	7.907874753	7.490816298	7.71274853	7.508301371	7.442027429
AP51	7.75965691	7.912662074	8.173064985	8.388838749	8.388838749	8.388838749	8.388838749	8.388838749	8.388838749	8.388838749	8.388838749	8.388838749	8.388838749	8.388838749	8.388838749	8.388838749	8.388838749	8.388838749
ZBED1	7.572042448	7.682802694	7.735286989	7.898572795	6.96537426	6.148695308	8.165383501	7.11389137	7.585485028	7.034897681	7.64432086	7.453785404	6.90290566	7.394468485	6.605648903	7.940240645	7.116608121	7.222770154
MFS2DA	7.352069224	7.973454455	7.245041286	6.123860634	8.06334217	5.54124914	6.566452807	7.481305917	7.602707005	7.887490993	7.417521256	7.483252812	6.112626023	7.545060239	7.25055079	7.273693111	8.92214047	
ALKBH6	7.329398747	7.843287877	7.948467675	8.37967231	7.877060229	8.027120663	7.450387956	7.3388353	7.399643535	7.354658248	7.31805507	7.710440397	8.213977574	8.621670839	7.268660709	7.375656254	7.574112872	7.279252596
UPK13L	7.934569603	7.934569603	7.009884467	7.188648963	7.188648963	7.188648963	7.188648963	7.188648963	7.188648963	7.188648963	7.188648963	7.188648963	7.188648963	7.188648963	7.188648963	7.188648963	7.188648963	7.188648963
HZAFJ	8.03292791	7.647126002	7.747806728	7.647126002	7.647126002	7.647126002	7.647126002	7.647126002	7.647126002	7.647126002	7.647126002	7.647126002	7.647126002	7.647126002	7.647126002	7.647126002	7.647126002	7.647126002
AP55	7.229262832	7.454502395	7.454502395	7.262584216	8.024466703	7.699761732	7.261754176	7.526574055	7.418920083	7.370311239	7.209598974	7.646235351	7.674943472	7.050138525	7.42313674	7.585706764	7.288624642	
SERF1B	7.338067969	7.832877356	8.226382657	7.0567174	7.90654199	7.730738877	7.828590538	7.154525229	7.89848445	7.19854613	7.46372866	7.765123013	8.360514001	6.815570003	7.493140422	7.488453413	7.363268782	7.513211028
ZNF765	7.137067245	8.657195886	7.155498082	6.917126843	6.152788561	6.719375113	6.794457582	7.994192757	7.3867608	7.700847943	7.52620149	8.265046919	8.47176385	8.15842413	7.562383295	7.919755426	7.573666118	7.29120252
CAPN15	7.300252462	7.062460727	7.492140376	7.00387574	7.891490359	7.998781338	7.382113246	7.492966733	7.3867608	7.700847943	7.52620149	8.265046919	8.47176385	8.15842413	7.562383295	7.919755426	7.573666118	7.29120252
IER3	6.888380713	6.99555653	7.944714803	7.11766437	6.922375527	8.123599129	7.601384818	7.931318031	7.908110674	7.46323474	7.222693038	6.573116939	6.854146502	7.864613793	7.764167973	7.75267272	7.556139271	7.2893213
PP1R12B	6.859870636	6.840273645	8.252798331	7.011713087	7.294803689	6.628744689	6.794020592	7.799247704	7.477979374	7.622693038	6.573116939	6.854146502	7.864613793	7.764167973	7.75267272	7.556139271	7.2893213	
GTPB2	7.391361745	7.282938678	7.566362593	6.99507567	7.72278105	6.649371109	7.764119707	7.437020142	7.44972133	7.326591429	6.104555313	8.774939132	7.425831239	7.88959733	8.017772801	7.81309163	7.52106871	
MA3T3	7.274871422	6.516837955	7.716296708	7.540932433	7.793295173	7.723230532	7.453666469	7.327417858	6.908993477	7.5114398	7.315255564	7.661814719	7.7141939	7.999600152	7.699691232	7.353536017	7.503459909	7.233016671
ZNF576	7.320751651	7.73295259	7.320751651	7.320751651	7.320751651	7.320751651	7.320751651	7.320751651	7.320751651	7.320751651	7.320751651	7.320751651	7.320751651	7.320751651	7.320751651	7.320751651	7.320751651	7.320751651
REK14	7.937213399	8.359739977	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399
BCA54	7.450451601	8.300697974	8.153336418	8.39810895	7.49187797	7.928662955	7.298966238	7.580660573	7.34792529	7.530470228	7.547872095	7.511387886	8.03734456	7.021108701	7.445154546	7.278004241	7.503702525	
MNA1T	7.084871009	7.246512506	7.467980633	7.94561951	7.616145883	8.073944241	7.278790045	7.490938138	7.52608394	7.658679585	7.16013278	8.349917838	7.959993329	7.159221432	7.571156534	7.448058178	7.521579583	
ABL2	6.77656006	6.845670032	8.477860208	7.478491751	7.631935555	7.966701294	8.018332079	7.406873801	7.501008136	7.592971436	7.534005444	6.695516244	6.925837923	8.041116406	7.741216461	7.764548609	7.655766737	
WRN	6.178411873	6.402994072	7.154437265	7.404196592	7.920766209	7.6007418743	6.333766885	7.556392822	7.454922644	7.878365906	6.924667016	8.24483289	7.831098601	7.375060613	7.72947469	7.75005605	7.82142451	7.801019528
FAM172A	8.056451269	7.906760707	7.398625145	7.906760707	7.906760707	7.906760707	7.906760707	7.906760707	7.906760707	7.906760707	7.906760707	7.906760707	7.906760707	7.906760707	7.906760707	7.906760707	7.906760707	7.906760707
ZNF426	7.773001462	6.132135147	7.826086851	7.45791474	8.794908666	6.151865484	6.58120827	7.323801506	7.53252474	7.628353697	7.366676861	7.849213609	6.233117875	8.179333402	7.435495964	7.698381373	7.048934171	8.174032615
REK14	7.937213399	8.359739977	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399	7.937213399
XL1T	7.962472274	7.20267892	7.72472208	7.20267892	7.20267892	7.20267892	7.20267892	7.20267892	7.20267892	7.20267892	7.20267892	7.20267892	7.20267892	7.20267892	7.20267892	7.20267892	7.20267892	7.20267892
DUP3	7.639782356	6.438676641	6.615832295	7.877345371	7.41256774	7.768258327	7.648289664	7.798573407	7.410366318	7.54532647	7.979053594	7.46281822	7.609916682	6.417408532	7.798880776	7.335535161	7.04885117	7.734600527
LISA2	7.659347448	7.189034748	7.151750985	7.786231988	7.459637349	7.5084127282	7.620579584	7.51407137	7.300386631	7.587267884	7.886165806	7.951004271	7.349356411	7.557026625	7.49842437	7.093768174	7.56759867	
GZE3	7.786233286	7.587523466	7.410247829	8.3855684	7.349064825	7.677000173	7.446595506	7.662019728	7.63955328	7.561998024	7.559463171	7.32508878	8.388868009	7.140497694	7.284711913	7.75771994	7.431237494	7.29507444
PHC2	7.35364007	7.537644007	7.511625016	7.742712397	7.446680264	7.289080751	7.509531495	7.071199223	7.715779285	7.711634874	7.494210315	7.517547191	7.219759029	7.575145356	7.606605955	7.03851939	7.722078321	
WRB1P	7.2179146	6.507472868	7.237292048	7.51146336	6.803426659	7.831790241	7.866696906	7.464370702	7.365341191	7.065266469	7.163954422	7.881185388	7.20917954	7.944166169	7.967624369	7.893713288	7.796759378	7.732749654
TARD12	7.995679368	6.03855331	6.03855331	7.510472323	7.612198622	6.732416229	8.004741388	6.924023792	7.440574738	7.086174633	7.293978466	7.551042606	7.997473904	5.92384249	7.756395			

HPF1	7.297876207	8.244692339	6.528645614	6.853216678	8.119882389	7.846457657	8.001667497	6.9549167	7.286386723	7.171009475	7.657965054	7.205635218	7.585138492	6.948325925	7.140914042	7.385701244	7.445853084
SLC7A6OS	7.947254961	7.287047235	8.047631915	5.996613991	6.533807026	7.511418558	6.349581902	7.581549808	7.058489915	7.123245963	7.369324408	7.568244726	7.121660051	6.626950621	7.434257528	7.468412839	7.809789187
GTBP10	7.216122281	7.385131667	6.672795399	7.841032823	5.961785462	7.088906079	7.365078816	7.542602227	7.502512528	7.076273383	7.175528889	7.316203168	8.026839041	7.660150005	7.272152891	7.801191271	7.830032026
CAMSAP1	6.931588862	6.57895768	5.678753582	7.440188267	6.765120473	7.271028123	7.766366486	6.739318231	7.33567901	7.452784362	7.70354876	7.023490767	7.846017666	7.696700334	7.345061677	7.235770318	7.386798762
MRP5	7.14714662	6.620152144	6.542034798	6.732227294	7.410633424	6.753227294	7.115471986	7.331741446	7.64811896	6.571400069	6.467890326	7.214177138	7.488144421	7.142281017	7.124028107	7.308098263	7.386329633
GFC2	6.919276482	7.174126062	8.319325248	7.809933757	6.805858587	7.041374278	7.409219139	7.67179351	7.270504337	7.075058712	7.028520954	7.207386666	6.142727122	7.543270721	7.651401320	7.162710858	7.516578183
CDKL5	6.971217091	6.546537096	6.748490104	7.311473438	6.695483217	7.606372436	7.746077311	7.929019801	7.583672644	7.879589129	7.367101017	6.784100025	6.6427750	7.008267037	7.73760062	8.02832961	8.196023864
ZNHIT2	7.923640437	7.989835826	8.012015744	7.783055222	7.705160683	7.154459655	6.980607708	7.419518635	7.05383757	7.280854459	7.178178841	7.791374461	7.064400767	7.367330428	7.102762369	6.981315582	7.603135927
DENN1A	7.390444725	7.563815746	7.924545601	7.162080902	6.891485866	8.087842826	7.180452061	7.285185298	7.17417663	7.239712778	7.14706445	6.732443193	7.682131836	6.928968409	7.666419648	7.50253903	7.737883781
TRNA1	7.68708495	6.942310941	7.197582401	7.925533308	5.8405466	6.514554814	8.025058246	7.45249381	6.805946966	7.36320384	7.442419318	7.167845368	5.803879666	7.158760919	7.137217659	7.619458279	7.504565614
MYO1F	6.58366275	7.526146892	6.855133052	7.325888168	6.90442366	6.495609758	7.166089698	7.934387564	7.345171921	7.330408383	7.343084823	6.65829665	7.532833568	5.748989946	8.023899891	7.704252702	7.909290029
CEACAM11	7.61397308	7.962923821	8.400434266	7.73203365	7.74898958	7.23148825	7.204523758	6.84689569	7.64689569	7.441746671	7.345144326	7.085184727	8.105165233	6.767171075	6.248661806	7.067858517	5.896577701
AASDH	7.511895750	7.099129132	6.55490456	7.685719408	7.644630292	6.338853889	7.835746587	7.335985294	7.125916871	6.97140273	6.998972039	7.655806383	7.056898678	7.085639747	7.336478957	7.56134818	7.343961343
HIST2H2BF	7.162762385	7.162077185	7.162077185	7.162077185	7.162077185	7.162077185	7.162077185	7.162077185	7.162077185	7.162077185	7.162077185	7.162077185	7.162077185	7.162077185	7.162077185	7.162077185	7.162077185
ROHBOT3	7.675128732	7.640350737	8.133848015	5.941246046	7.943631288	5.667143349	7.532895728	7.704433631	7.460476329	7.378978789	7.252617373	7.225348324	6.684279465	7.329638212	6.997343348	7.064061059	7.024607769
LEO1	7.899170174	6.278651045	5.978173198	6.514262229	7.238898501	8.009041612	7.332681855	7.058378853	7.337783735	8.031627762	6.563189031	8.214550888	7.23112526	7.44825625	7.46110583	7.716358767	7.073190884
PUS1	7.625740441	7.840796379	7.840796379	6.95747819	6.99182164	7.593287922	7.637199371	7.06615972	7.408957142	7.08004405	6.083795972	7.42972797	7.726124511	7.429417109	6.927419136	7.077410858	7.306639239
CFTN3	7.749384196	7.46312199	7.530749344	7.744676586	8.28736248	6.66805172	7.124247004	7.026035497	6.902461715	7.213794278	6.838618357	7.948537364	8.300134285	8.06877488	7.660799129	7.454296592	7.38852386
SRH1	7.675272846	6.526725235	7.085801836	6.926200716	6.989185657	7.35739394	6.576726728	7.352040548	7.765798919	7.167571713	7.311103838	7.852739035	7.366939888	7.3326117	7.334868444	6.968693004	7.30194041
CEACAM1	8.110369449	5.455245709	7.895696557	7.79958576	5.71283975	7.734583838	6.930371129	7.792350605	7.565104375	6.62592377	7.314389866	7.425699283	8.931446489	5.520072542	6.987918328	7.153367377	7.415321804
KIT12	8.116147076	7.343146747	8.626720742	7.204450867	7.033083003	7.376476511	7.991435138	7.227344095	7.367476511	7.676015977	6.953306674	7.875788257	8.525156556	8.27786633	8.806501504	7.323725108	7.028335569
NRDE2	7.165451547	7.178473459	7.151266315	7.535310601	7.711192253	6.405994011	7.458614416	7.055242213	8.083285442	7.528202871	7.207745691	7.47172318	7.071947127	6.442234164	7.829449664	7.61482404	8.674799672
PKHA2	8.052755997	7.608265222	7.343057097	7.388559167	6.417578883	7.752686955	7.047842948	7.43350486	7.615187778	7.047842948	7.651877858	7.820858052	6.581688676	6.366937615	7.199578368	7.298912174	7.090040438
NOCAL	7.689459887	7.203585887	7.268568887	7.203585887	7.203585887	7.203585887	7.203585887	7.203585887	7.203585887	7.203585887	7.203585887	7.203585887	7.203585887	7.203585887	7.203585887	7.203585887	7.203585887
LEF1	6.694465183	6.533174666	7.294240308	6.562010058	7.188978161	7.425456475	8.002631968	7.44122103	7.221479963	7.368912972	6.784698932	6.10794214	7.692714554	5.864982923	7.605457934	7.704950987	7.334490984
TEX9	7.048207796	7.674242127	7.799056083	6.77969965	7.662232421	6.656383887	7.623010558	6.662723161	7.559496073	7.126246154	7.343545078	7.408817339	7.835628697	5.782675025	6.919797572	7.062675594	7.085552174
SRH1	8.023713735	7.988103748	7.988103748	7.988103748	7.988103748	7.988103748	7.988103748	7.988103748	7.988103748	7.988103748	7.988103748	7.988103748	7.988103748	7.988103748	7.988103748	7.988103748	7.988103748
SYNP0	7.847371795	7.847371795	7.847371795	7.847371795	7.847371795	7.847371795	7.847371795	7.847371795	7.847371795	7.847371795	7.847371795	7.847371795	7.847371795	7.847371795	7.847371795	7.847371795	7.847371795
CBX6	7.257644133	7.516943081	7.006184206	7.310162991	6.528491172	7.742632485	7.352919973	8.113176908	7.298937663	7.248400113	8.056334252	7.932248882	8.197876031	6.721233023	8.041895228	8.673143734	7.498262336
SLC27A5	7.594531988	7.338629429	7.719396647	7.799578204	7.437442272	7.096578107	6.971920713	6.566400802	7.396053871	7.109652077	7.369010392	7.109652077	7.369010392	7.109652077	7.369010392	7.109652077	7.369010392
ZNF523	7.984502415	7.240492415	7.725864708	7.589996324	7.682618752	6.073062044	7.40047859	7.170239276	7.516504723	7.243913872	7.040955995	7.036390055	7.52854351	8.238009084	8.836752783	7.477723393	7.118359662
FRS2	7.255179771	7.368824633	7.059977931	7.059977931	7.059977931	7.059977931	7.059977931	7.059977931	7.059977931	7.059977931	7.059977931	7.059977931	7.059977931	7.059977931	7.059977931	7.059977931	7.059977931
H2AF2	7.536069781	7.565334353	8.005578256	7.355323736	7.123906106	7.640090725	7.498401976	7.477461353	7.163810271	7.203524627	7.281824642	7.296043317	7.645964947	5.819839285	7.381578578	7.057390754	7.26653182
KCNJ14	7.857474986	7.857474986	7.857474986	7.857474986	7.857474986	7.857474986	7.857474986	7.857474986	7.857474986	7.857474986	7.857474986	7.857474986	7.857474986	7.857474986	7.857474986	7.857474986	7.857474986
MYB18	7.346749891	6.947104294	7.407404889	8.340470524	7.528966669	7.099140474	7.994596716	7.393597610	7.408127610	7.205275921	7.292858056	7.118782143	7.904317178	8.042597816	7.105478478	7.568318616	7.759208669
ARHGFE5	6.258990232	5.899541345	6.174761923	7.346296737	7.737946582	7.575205999	6.630458043	7.436751846	7.30208335	7.39022772	7.044004213	6.858991572	7.104760020	8.031276167	8.04859389	7.592013499	7.195535083
Csor4f2	7.817174044	6.891735668	7.893757607	6.934703555	6.347901583	6.207699666	7.950145891	7.390796618	8.371351928	7.380700938	6.425677756	6.559401662	8.038178192	6.670913814	7.89736568	7.505727611	7.719113884
PLGRK7	6.965835237	7.56387602	7.066314082	7.265888422	7.792083575	7.786811877	7.642221882	7.247094799	7.51881558	7.165519691	7.399487285	8.119595556	7.841945212	6.882398542	7.504761271	7.242866586	7.222760992
KBTBD4	8.024204719	7.803538284	7.834317339	7.834317339	7.834317339	7.834317339	7.834317339	7.834317339	7.834317339	7.834317339	7.834317339	7.834317339	7.834317339	7.834317339	7.834317339	7.834317339	7.834317339
ZNF189	6.582572984	6.976737799	7.798135135	7.407500625	6.706197495	6.652195998	8.13242396	7.345995155	7.550899485	7.41647904	7.299157413	6.63382559	7.98838776	7.781879935	7.262166539	7.452679959	7.182278954
SLC37A4	6.489872966	6.368433006	6.733525567	7.756302909	7.949757123	6.347371528	7.037050815	7.397986443	7.76506738	7.725906738	7.495970076	8.098133717	7.142472176	6.311125011	7.678644791	7.226595594	8.922884701
KIF18A	7.936139381	7.805148797	6.805148797	6.805148797	6.805148797	6.805148797	6.805148797	6.805148797	6.805148797	6.805148797	6.805148797	6.805148797	6.805148797	6.805148797	6.805148797	6.805148797	6.805148797
ILIR2	7.61538535	7.372197096	7.329952528	7.224157081	7.996139931	7.503978764	7.442714343	7.265283231	7.07780543	7.225862926	7.313065112	7.359594566	7.500363121	7.59201652	7.192947471	7.254147858	7.263354112
DNAJC5	7.96714684	8.026805623	8.026805623	7.442149951	7.67473806	7.381116752	7.252376444	7.541489251	7.235237444	7.439052048	7.339052048	7.104725484</					

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GUF1	7.611275135	7.620640434	5.797867017	7.414646091	7.266202228	5.800404166	7.247881544	7.087168526	7.067596616	7.562460263	7.294693013	7.232518987	8.844110807	5.87525459	7.169201423	7.884389499	7.270265636	7.398341
CBX1	7.281509465	6.995510469	7.468867881	7.7143443087	7.615838427	7.277878217	7.466371133	7.256761743	7.295586889	7.159690912	7.002956426	7.238659033	6.871137816	5.999275878	6.932396639	7.24102815	7.24102815	6.936966349
CZorIB	7.479855315	6.928667112	8.166651612	6.933831401	7.648807802	7.019361249	6.285727326	7.088418566	7.678153312	7.395010562	7.666448804	6.176886575	6.020773662	6.27295193	7.187552328	7.436699476	7.292157635	7.560299667
DNAI	7.337398639	7.265098829	7.307598918	7.260649028	7.066490428	7.241793009	7.431719273	7.431719273	7.090330849	7.390330849	7.178990917	7.163018046	8.021724295	7.946652216	7.286499069	7.067934125	7.338894339	7.286166598
DCAF	6.240737724	7.426787751	6.900384422	7.407134469	7.465532089	6.727185143	6.991721193	6.991721193	7.116475897	7.116475897	7.166278604	6.675889179	7.027211259	7.025204645	6.63642751	7.554842843	7.098807073	7.530735422
STK3	7.127185644	6.596898341	8.542203753	7.223636381	7.82953347	7.773024247	7.251640207	7.258807277	6.98091683	7.185428027	7.374765752	8.116589321	6.195137613	6.025359078	7.510713846	6.636495586	7.271952722	6.968620566
CNTR0B	6.312921153	6.81970925	6.879855233	7.4721645	6.865906662	7.015236833	7.520371026	7.285666813	7.157360182	7.157360182	7.171067052	7.164174254	7.820305179	8.09922879	7.152259164	7.6696959	7.493912491	7.107107374
RAB13	7.128228018	7.522054971	6.845910402	7.165151581	7.228013012	7.247887957	7.025643421	6.841086131	7.455470954	7.23362191	7.628266328	7.454007854	7.757544003	7.213756232	7.128162971	7.238415558	6.943194466	7.7077865
GCFR	7.893468151	7.230164216	6.832902553	7.25337627	7.59751612	6.293993765	6.958732785	7.108433678	7.108433678	7.102702677	7.366274578	7.313571772	7.906222449	6.109564467	7.294847054	7.205560286	7.446479374	7.089951708
ETS1	7.510803606	7.178599844	7.861913738	7.285652399	7.057100248	7.058032025	7.130428265	7.220533329	6.853788713	7.469246527	7.334240979	7.226209225	6.489616176	6.199013532	7.329002559	7.130989883	5.528257884	7.823415804
MUC20	7.324550845	7.2356530849	7.472769944	7.652499572	7.361035017	7.518739131	7.232935733	6.807939643	7.171919435	7.104956695	7.529066239	5.705794933	5.820489594	7.243032083	7.27157636	7.11002825	7.40834787	
SFR1	7.388369717	8.179367996	7.314729691	7.607799707	7.549213934	6.64213742	6.683611789	7.21424664	7.392943824	7.193677274	7.03780225	7.149042656	7.487816189	5.760545918	7.645159871	7.061962022	7.253379497	7.514967452
SERPINE2	7.780450015	7.69204507	5.544190046	7.756085799	7.565351301	7.410664808	7.27854669	7.391896397	7.814615635	7.52654662	7.52654662	6.106707668	5.559483953	7.808857764	7.54733595	6.519002814	7.187448948	7.80678647
HMB0X1	6.694122692	7.652812674	7.873317151	6.840430697	6.697149636	6.75231388	7.66280434	7.583695807	6.99644286	7.515841896	7.526333096	6.858884786	7.835894896	7.43150969	7.392464937	7.196783267	7.272156219	7.069100971
VIPAS39	7.095153485	7.766818471	7.865802838	7.608791738	7.639974524	7.520614019	7.718233423	7.249170364	6.563420408	7.513757211	7.475940054	6.643295072	6.674740734	7.203922307	7.00059117			
CDZ26	7.975768244	6.61092148	8.52473625	6.393688088	6.694759873	7.298971629	6.614557068	7.244662771	7.984823353	8.308118024	7.728450624	7.511670394	6.857272243	6.599893156	7.220568675	7.034724316	7.335712242	6.7816185
XAB2	7.307563944	7.230583865	7.40184818	7.14833388	7.207218601	6.788756551	8.018371428	7.388748629	7.039916827	7.039916827	7.91526284	7.394739839	8.033350451	7.230119673	7.073706017	6.899661127	7.128012364	
NDI1	7.396934779	6.611215163	7.22739774	7.208513846	6.968664264	7.034306373	7.432301381	7.239396759	7.359627297	7.23047075	7.256425214	7.181467126	7.316808763	6.729148083	6.88467777	7.91108813	7.445144717	7.437098809
GEI24	6.252349998	5.941043986	7.123515074	6.532616276	6.532616276	6.532616276	7.825874633	7.087710207	7.442867148	7.087710207	7.442867148	7.087710207	7.442867148	7.087710207	7.442867148	7.087710207	7.442867148	7.087710207
PARVQ	7.54219226	6.63820646	6.19449985	6.43068101	6.270945147	7.478468917	7.050901195	6.936023972	7.846894161	7.73468488	6.656942029	7.11036221	7.589199372	7.295187449	7.166248949	7.968698325	7.999832707	
PKD3	7.161396462	7.735873989	5.738169586	8.016292284	7.656934067	6.71655266	7.011266255	6.950553006	6.886735564	7.11264336	7.077365449	6.790532476	7.29264711	7.712772708	7.330422007	7.454806171	7.46449027	7.651521882
TBK2	6.519530025	8.216104209	7.237605349	7.588839058	6.172320597	7.407735099	7.38540046	7.391172399	7.505806993	7.28815623	7.367235556	6.443701608	6.988659384	6.962690801	7.221832919	7.117878435	6.826445603	
FXO5	7.917583926	7.465339319	7.913891018	7.567976026	7.041875185	7.101220995	6.329848414	7.109381018	6.93282066	7.178534005	7.405412089	7.033003868	7.233886784	7.957770645	7.224851232	7.203596094	7.076063628	7.307716939
SIF2	6.864632845	6.51954923	7.930868342	7.492514964	6.652198255	7.399272415	5.911198397	7.789020556	7.229022558	7.533270711	7.107029711	7.029414943	7.227959454	7.340455779	7.489382627	7.234299982	7.117341896	7.319950615
PXYL1	7.65337563	6.175216438	5.827013438	7.229561506	7.348861234	6.828087302	7.568660135	6.733148854	7.384427747	7.056572908	7.449392485	7.240699969	7.722541615	8.652479866	7.868682899	7.100754432	7.069087074	7.228456599
HATK	7.187056173	7.178704614	7.315460424	6.762929173	6.751102822	7.059290988	7.309635172	7.228701923	7.058500665	7.044534413	7.06198125	7.021061129	5.817638366	7.419476941	7.326547939	7.308963940	7.215854403	
ANKS6	7.317285792	7.224858668	8.668796631	6.744222769	5.99914943	7.027008247	7.840196911	6.953703418	7.229118627	7.227308149	7.007446854	7.82782501	7.634189923	5.634613385	7.026311259	7.17425392	7.415650929	6.905769419
PNL7	7.89936568	7.617077426	7.480915404	7.520020065	7.368937686	6.677014677	7.37478792	6.981681336	7.510242891	7.510242891	7.45516194	7.007615447	5.731708815	7.369946081	7.086366679	7.281996475	7.107303541	6.580858471
NFKB1L	5.125404476	8.160944476	8.161952351	7.89546436	7.606432006	7.718502763	6.839990137	7.160080204	7.100392179	7.160236296	6.903912887	7.625233267	6.945987198	7.001977484	7.181038669	6.948858398	7.720640162	
TD3L	7.853437729	6.932364081	5.852048231	5.769629398	7.55627429	7.47656888	7.07160697	7.236314586	7.79020558	7.236314586	7.40521191	7.557795357	7.381537419	6.112304739	7.312252282	7.865090812	7.21493137	7.930949058
NETO2	5.67183347	7.20189216	6.089765751	5.597804177	7.511218135	7.248673959	7.281332655	7.725828735	6.198579434	7.16207854	7.416823787	5.543816165	5.525145976	6.613913231	7.742730061	7.58374495	7.305390626	6.654735776
GNAS2A	6.932540046	6.932540046	7.112307997	7.112307997	7.112307997	7.112307997	7.112307997	7.112307997	7.112307997	7.112307997	7.112307997	7.112307997	7.112307997	7.112307997	7.112307997	7.112307997	7.112307997	7.112307997
HLA-DQB1	8.809336051	6.584959209	5.87985728	7.084386023	7.360139803	7.005890984	6.302471917	7.617793829	7.518533982	7.208423657	7.235604127	7.086669695	7.134602213	6.753993882	7.78047595	7.48785612	6.66875852	
CTSDP1	6.79300621	7.312761552	7.990743308	7.106044179	7.32443407	7.27787662	7.767903928	7.251985054	7.026002107	7.118112888	7.075120432	7.196416156	7.072247128	7.560333588	7.01768417	7.383026032	7.304015664	7.421709779
NDRG2	7.43015156	7.862347905	5.806262459	7.529362416	7.36953345	7.267099506	7.363494258	6.98115891	7.682467123	7.408959282	7.045935846	5.778247126	8.80062786	6.247614517	7.307875986	7.034927952	7.180832796	7.180832796
FXO15	7.60948715	6.745598054	6.7731032	7.254666953	7.261934007	6.38452863	7.031744056	7.988387799	6.630791934	7.132004982	7.15219908	6.615388811	7.567249736	7.192643235	7.8224126	7.903447975	6.862893404	7.90653286
PDL	6.610011673	7.466366503	6.692644928	7.66554226	7.28332404	7.65542426	7.293406729	6.881152242	7.293406729	6.881152242	6.932874852	7.228028406	7.578107005	6.218971175	6.829059449	7.34818997	7.049757404	7.216464729
SUPT3H	7.275586344	7.350108361	8.06623111	7.470097944	7.84113194	8.03851383	7.128218993	6.93600727	7.451001527	6.939770027	7.164576757	6.996967641	6.217149514	6.297692123	6.8553693	7.522163327	7.204334704	7.222656202
ZNF428	7.43079081	7.379914879	7.486664704	7.675621001	7.073609905	7.055530855	7.025852805	7.233399999	7.356936024	7.1872877926	7.210846093	6.738026091	6.487402963	7.079677886	7.239904467	7.25464327	7.15189213	7.141270509
GCN2A	7.428989329	7.363878097	6.101712723	7.104951683	7.176469428	7.51711696	7.355130286	7.490530286	7.021760562	7.021760562	7.5141451594	7.070496962	6.89991594	7.112108797	7.112108797	7.112108797	7.112108797	7.112108797
TENM60	7.553890553	7.822922219	7.667216032	7.20553667	7.443652862	7.811363544	7.602090864	7.193985939	7.484884802	7.130828802	7.094124771	7.479720037	5.771441843	7.237724597	6.8			

KUFR	7.829361262	7.209066841	7.921397461	5.751675312	5.853481678	6.166773886	8.31494211	7.19420654	7.440958324	7.127308338	7.195155891	7.857992147	6.391997081	8.013962165	7.613590658	6.776823613	7.084701819	6.459663683
NUDFAF	7.196738265	7.767328968	7.678328968	7.219885538	7.705994512	7.794876373	5.935195702	7.163009124	7.163005036	7.008243929	6.818822633	6.982698406	7.188923563	6.488022093	7.302918615	7.088356031	7.407579035	7.439897924
EFEM2F	7.384125488	7.282840036	7.73614302	7.31826123	7.548097113	7.079974679	7.250040063	6.910983241	7.131019735	7.24426695	6.924379149	6.787257234	7.524791554	8.067165427	7.174540007	6.925119539	7.029883884	7.208619205
TRIM25	7.23135917	7.256189353	7.00881828	6.665120651	6.231971678	6.145477453	5.566549261	7.786365499	6.635097773	8.122551351	7.151486439	6.588566805	6.889357969	8.104000115	8.199841424	8.356259354	8.617886589	8.491002627
IFTA	7.15387911	7.415661284	7.456612804	7.099080083	7.578925233	7.899080083	7.604280158	7.003216546	7.003216546	7.004331191	7.111065823	5.963051505	6.991293855	7.295804317	7.215166518	6.791706410	7.27241469	7.484650868
PTLH	7.09586356	7.050155223	7.867366734	7.05856734	7.524343959	7.23685659	5.655840291	6.688101848	6.688101848	7.183248316	7.183248316	7.200545278	7.524067272	6.544874709	8.064510422	6.585786568	6.972895061	6.682690861
LNK2	6.689048653	7.148038797	6.818561462	7.462476381	7.320197569	7.48649719	6.971191002	7.031917566	7.914241632	7.170218558	7.525647148	7.973520252	7.226582924	8.018004474	7.211600842	7.600496564	8.660430047	7.717780389
PHTF2	5.641220014	7.548509474	7.548509474	7.403780674	6.476888856	6.511549276	6.971274827	6.311549276	6.998655397	6.717182356	6.717182356	6.717182356	6.165356066	6.185303929	7.420822832	7.237604738	7.224214773	7.24706393
PIDD1	7.159469139	7.587302205	7.530255203	6.06340639	6.673183887	6.129876076	6.026121525	7.422296639	7.366740074	7.319955125	6.099198789	6.91235741	7.193482859	7.365789744	7.31849851	7.185398561	7.199329535	7.162074939
NU1555	6.149812899	6.589443568	7.337196463	6.589443568	6.8183887	8.25656838	7.227312101	7.379419125	7.738956306	6.780523447	6.290540371	8.276470629	5.983285237	6.681714402	7.945005984	6.932936346	7.068979479	
ZNF526	6.394739716	6.859671578	7.229798152	7.697452086	7.562695993	7.132290315	7.358941354	7.358941354	7.449523466	7.068765817	7.266438877	6.842011311	7.039689226	7.062487732	7.062487732	7.624571274	7.160215602	
TFHAPB11	7.216872277	6.039095743	7.523411479	7.703327903	7.197691691	7.402590381	7.402590381	7.402590381	7.349390778	7.335289676	6.674877559	6.243242156	6.118998882	8.130549689	7.171691541	7.141052853	7.340078701	7.178372698
IGLL1	7.202027722	7.434469911	7.17942688	7.511038124	7.117942688	7.511038124	8.95051803	7.303645508	6.988293532	7.389430341	7.497880693	6.921210157	7.122201298	7.196286981	6.815175688	6.430071213	7.147838208	6.83436075
UTP15	5.771260568	6.190927708	6.016184027	5.906758556	7.104949742	7.039302659	7.451751488	7.229582394	7.3752998	6.949806173	7.078628903	7.26224674	7.77231858	8.25291116	6.658631615	7.393323871	7.135754833	7.515274035
MYLK	7.818845085	7.249789352	6.289349593	7.249789352	7.852184745	7.591169316	5.890497489	7.159169316	7.050943956	7.207458103	6.681147697	6.467335965	5.803666257	6.32100878	7.634750035	6.653741076	7.250507379	7.098793372
TRO	7.347585867	8.069686799	6.0074735231	5.600113009	7.336263605	7.589240046	6.088652947	7.026437104	6.924051216	7.690071203	7.038034829	7.786411762	7.879569185	7.400316941	7.393158709	7.590480642	6.93462115	6.974040929
CHMPC4	7.165566063	7.365974494	7.349946031	7.702151548	7.182776452	6.925810785	7.05446509	6.912144465	7.05446509	6.876383552	7.182576773	6.898071274	7.435660593	7.070461339	6.822895474	7.195732481	8.626320964	7.659817812
GON7	6.703813897	7.975861387	7.420086184	7.200120544	7.244634965	7.648382446	7.648382446	7.407329614	7.648365891	7.407329614	7.430414975	7.896076695	7.250312988	6.767293373	7.013026544	7.014754397	6.918095293	7.122296429
ZFP90	7.709448777	7.413736972	6.255852912	7.561189077	7.56073435	6.882372939	6.091976409	7.332944823	7.284879055	7.145728811	7.145728811	6.590672836	8.376662385	6.417643293	7.043534155	7.306388843	6.980845134	6.999195375
FLAG1	7.471956917	7.734266888	6.300289784	6.300289784	7.665149931	6.812619955	6.971155507	7.162674508	7.192586198	7.170546596	7.847472901	6.568455106	6.515991137	8.110861954	7.377654216	7.323870887	7.431838807	7.432008674
DKX57	6.854668818	7.132705589	7.126113216	7.101859962	7.201514241	7.43617561	7.531028474	6.985219007	6.885219007	6.885219007	6.885219007	6.885219007	6.885219007	6.885219007	6.885219007	6.885219007	6.885219007	6.885219007
AGTRAP	6.814871565	7.17373552	7.115046651	7.115046651	7.331584886	7.091514886	7.231703859	6.689505008	7.147642565	7.214374335	7.331799218	7.684052395	7.88294265	8.042412794	6.84162872	6.653324224	6.684784075	7.30270617
DNAA1F	5.548694751	6.808997471	6.741385082	6.046309145	6.453346619	4.910574124	7.329601726	6.487911949	7.031129826	6.245259793	8.338691425	5.738214849	8.264494302	6.649765074	8.623005442	5.885858527	8.426545661	8.256289912
PNKX	7.974486149	5.544861743	5.442667623	5.544861743	8.490221217	7.191739897	7.397162328	7.097369726	7.739173987	7.225068395	7.467789875	5.977252371	5.568005568	7.288323308	7.030598258	7.168795598	7.168795598	7.168795598
PPID	7.253980276	6.488481174	6.839566568	7.863082746	7.038048827	6.009783125	6.240051306	7.14659382	7.14659382	7.095575733	7.573590525	6.465318501	6.635690867	6.590348559	7.64861003	7.088928921	7.165707243	7.991688728
WPB11	7.482396678	7.425373357	6.295133215	7.127248228	6.155334923	6.164295881	6.225873873	7.189062411	7.730619326	7.109559643	7.170858558	6.511773637	7.868346985	6.73562002	7.587635754	7.471439855	7.358918296	7.616501616
CDZ76	6.9713199315	7.174965622	6.066780988	7.427619531	7.036510225	7.033675139	8.200397863	7.169990091	7.458183904	7.178063122	7.185138164	7.399481732	6.972769741	7.426793318	7.181599117	7.222798027	7.348939661	6.229649097
WYF11	7.281298517	6.231298517	6.231298517	6.231298517	6.231298517	6.231298517	6.231298517	6.231298517	6.231298517	6.231298517	6.231298517	6.231298517	6.231298517	6.231298517	6.231298517	6.231298517	6.231298517	6.231298517
WDSUB1	7.516243502	8.164391959	6.99404616	6.99404616	6.99404616	6.99404616	6.99404616	6.99404616	6.99404616	6.99404616	6.99404616	6.99404616	6.99404616	6.99404616	6.99404616	6.99404616	6.99404616	6.99404616
CBR4	7.597101328	8.393486668	6.378540238	7.992052192	6.62883882	6.95855665	5.678040266	7.37357138	7.169291314	7.368979494	6.675024381	8.366705805	8.660154345	7.140659903	7.189358256	7.470245446	7.467549996	7.913062895
FADD	7.227796818	6.994427702	6.858993192	8.100572429	7.858993192	7.69968638	8.041724828	7.226661357	7.131207453	7.102492785	7.675210467	7.540554669	7.805073719	7.685975831	7.086843473	7.097932599	6.966457149	7.092510619
PH1-94917.	7.126105197	6.877926363	7.108148084	7.390265134	7.604200351	7.156801385	7.207740418	7.241633902	7.362520412	7.462597112	7.028125753	7.443205876	6.506956608	7.808277741	7.268026585	7.159175064	7.19700515	7.402652948
R3HDM2	6.989895037	7.493017280	7.356071669	7.493017280	7.356071669	7.493017280	7.356071669	7.493017280	7.356071669	7.493017280	7.356071669	7.493017280	7.356071669	7.493017280	7.356071669	7.493017280	7.356071669	7.493017280
METT14	6.786263586	6.529109486	6.740737578	7.955707604	7.058407695	6.99364878	6.99364878	7.316639127	7.050506609	7.214361715	7.140377261	7.009911336	7.733188165	6.119543605	5.669817454	7.360340949	7.63020165	7.400219036
TAH141	7.287562456	6.871961398	8.014649863	7.127749616	6.520380968	6.520380968	6.520380968	6.520380968	6.520380968	6.520380968	6.520380968	6.520380968	6.520380968	6.520380968	6.520380968	6.520380968	6.520380968	6.520380968
ZFYF1	5.828471587	6.211471239	6.211471239	6.211471239	6.211471239	6.211471239	6.211471239	6.211471239	6.211471239	6.211471239	6.211471239	6.211471239	6.211471239	6.211471239	6.211471239	6.211471239	6.211471239	6.211471239
PCDD11	6.993453048	7.639651004	6.31466713	7.656492941	6.48624801	7.183598242	6.183598242	7.37357138	7.169291314	7.368979494	6.675024381	8.366705805	8.660154345	7.140659903	7.189358256	7.470245446	7.467549996	7.913062895
SH2	7.130152077	7.130152077	7.130152077	7.130152077	7.130152077	7.130152077	7.130152077	7.130152077	7.130152077	7.130152077	7.130152077	7.130152077	7.130152077	7.130152077	7.130152077	7.130152077	7.130152077	7.130152077
MTRF1	6.622845874	7.442314872	7.160865385	7.202087376	7.35655064	6.093540011	7.081552903	7.195453112	7.053952361	7.250249019	7.104529424	7.721307332	7.190448293	7.256564543	6.945293094	7.302489898	7.508671586	6.900055757
TRAF7	7.458355155	7.740613649	7.914810946	7.740613649	7.914810946	7.740613649	7.914810946	7.740613649	7.914810946	7.740613649	7.914810946	7.740613649	7.914810946	7.740613649	7.914810946	7.740613649	7.914810946	7.740613649
HLLS	5.865784774	7.611393905	7.085693124	7.846245179	6.88547495	5.86064359	7.156590902	7.340542618	7.30471875	7.711655572	7.19339301	5.904208291	6.334889507	6.981300025	7.932154527	7.64177692	7.265920437	7.767742122
FUZ2	6.871807525	6.881086532	6.650777324	7.826103871	6.563499951													

MOG	5.718579466	7.266878829	7.274641653	6.99908815	7.243709445	7.421210759	7.374850116	7.070638939	7.021934498	7.055411798	7.237059773	7.514222905	7.348595481	7.331459307	6.976576519	7.095442088	7.195612363	6.915953913
ATG14	7.293631777	7.102123771	7.475393583	6.664123487	6.651104747	6.945741316	7.207659313	7.222168739	7.020082172	7.100208172	7.377093993	6.068558154	7.354465138	6.621954926	7.03866348	7.18853519	7.44203447	7.037135032
SSBP3	7.479279585	7.384245849	7.357481037	6.795937002	6.959382621	6.983011753	7.454655468	7.394859996	7.197916792	6.885338345	7.359018496	6.079361205	6.354086292	7.290586546	6.894198411	7.092041399	7.014195961	7.063668519
LETM2	6.567409526	7.028840694	6.681886221	6.611993976	7.116085056	6.92088307	6.636363974	7.651235778	7.235987052	7.481480203	7.172759384	6.751694685	7.208244666	5.928034104	7.72958285	7.482226808	7.649798644	7.781988068
ZIF60	8.115660322	7.989742048	7.114133549	6.507276276	7.03987452	6.903697675	7.030987452	7.694233149	7.849021103	7.440921193	7.147444835	7.177199263	7.117279249	7.74564464	6.178220249	7.3460911819	7.140451528	7.145480831
SPATAS	7.141600057	7.141600057	7.332032121	6.494891011	7.311259636	7.132178291	6.718802841	7.128953577	7.586381771	7.586381771	7.128953577	7.586381771	6.95605502	5.90262321	7.7121614	7.56758986	7.574937819	7.574937819
RRP8	7.056338922	7.394087795	7.037214117	7.011234076	7.357092496	6.930036705	7.211340587	7.214818804	7.162264903	6.681799919	7.283704916	7.845236893	5.732670814	7.060958636	7.167965764	7.145958921	7.436570018	7.436570018
KBBT03	7.462114542	7.438199842	7.461215629	7.125602928	7.016721623	7.719394027	6.965022537	6.825240929	7.316511686	6.727817607	7.712833747	7.474835303	7.428660279	6.971250089	6.384585187	7.074246284	7.074246284	7.074246284
RNCP3	7.614850616	7.521098358	7.251961789	7.229797196	6.622755814	6.564809472	6.930596972	7.31237903	7.171921942	7.277185197	6.635169456	7.118485574	6.518594892	6.715630784	7.161163996	6.890215847	7.026286282	7.673348282
SAF02	7.134726553	6.981790681	7.293921085	7.433600144	7.493424516	7.293082624	7.293082624	7.144804956	7.037838163	6.930485685	7.242757356	6.856338974	7.509411183	7.128296111	6.861289884	6.84848396	6.810809272	7.170326244
MAP07	5.827695301	7.193807732	7.193807732	7.193807732	5.781362863	6.063313236	5.840008016	6.884212013	6.662467852	6.910377536	6.751639652	7.414935011	7.326591507	7.436276557	7.250079473	7.170168759	7.170168759	7.250079473
HRAS	7.293915496	7.139493986	7.509639563	7.386676852	6.872590664	7.529377305	7.77116998	7.143282401	6.890660798	6.973201756	7.066155887	7.348142415	6.93903582	7.376209771	7.285871131	6.60621327	6.933807625	7.060234439
IPMK	6.450823561	7.97877422	7.092153429	6.929575044	7.398555601	7.422347058	7.287781528	7.104804415	7.104804415	7.104804415	7.70085108	5.83806762	5.577805225	7.171920887	7.348818496	7.85515006	6.736936552	6.996052838
DTW02	6.949536632	6.708520023	7.743482123	5.388485405	6.299117185	7.271196242	7.365329888	6.69580902	7.207281611	7.059703070	7.434865798	7.33488853	6.600774529	7.59059998	7.412124115	7.568992362	7.0689506	7.90332888
AP2A1	7.177351485	6.476605222	6.6839374089	6.66632588	7.273095127	7.087417934	7.365353249	7.275601261	6.901954787	7.235137041	7.392517473	7.319317505	7.926652731	6.315484281	6.836630034	6.84701118	7.399944110	6.998496043
PAFAH2	7.25439321	5.877674037	7.238484611	7.226598904	5.95685309	6.258626313	7.458976308	7.112610563	7.273188164	6.93113834	6.796720995	7.548846632	7.085237938	7.365995334	7.009976374	7.238472304	7.163187183	6.659789694
SLC22AS	7.196727291	6.533882991	7.668285937	7.668285937	7.10791957	7.206478086	6.998168938	6.88548702	7.11245261	6.99008063	6.334135673	5.701465574	7.431748879	7.375792304	7.268817620	7.163573209	7.089921309	7.089921309
SVT1	8.053855103	8.1834876	6.779960983	5.809282557	5.6103267	7.426372633	7.054595775	6.891459392	7.172128743	7.980706155	7.454783874	6.797471794	7.28846543	7.103570836	7.209980856	6.899810471	6.899810471	6.899810471
RCF2	7.813689195	6.812390512	6.611784561	7.114098022	7.174689835	5.996265421	7.342568729	7.021779534	6.985055773	7.162418999	7.203567673	7.223265889	5.94334447	6.794374505	7.284535856	6.911855454	7.189170961	7.189170961
RALGAP3	7.737074517	6.169738287	7.871314941	5.807892548	7.417805429	5.66437227	5.466825176	7.674962025	7.506633416	6.837854538	6.981160907	5.459897755	6.389413861	6.048278471	7.293240052	7.472729147	7.520355355	7.99428111
HSBP3	7.297082898	7.149315432	7.130020111	6.91786438	7.418325256	6.915065604	7.05056502	7.401975066	7.256152164	7.227626299	6.9218386	6.90542302	6.12957869	5.52824055	7.18889899	7.371682559	7.348217036	7.06639395
NBP3	7.84332369	6.96703507	7.07978453	7.279215414	6.76105492	7.74953467	7.127878377	7.303811037	7.51456361	7.647807372	7.219402576	7.112197657	5.67376629	7.28808892	6.788701242	6.654925466	6.372074456	6.372074456
MAPK12	6.56345076	6.208795647	5.791813325	7.168781608	7.906790422	8.55045011	6.911287132	7.381562659	6.976180386	7.10086678	6.323210246	8.027399718	7.183576485	7.912778753	7.560608063	7.815719588	7.287194966	6.806625652
S1PR4	7.12345267	7.514669088	7.624875311	7.624875311	7.92945874	6.165218445	6.94903747	7.1796491	7.549184895	7.197972465	7.528033312	6.72806409	6.741791217	7.542600989	7.19026578	7.19026578	6.966235715	6.966235715
TMTCS	7.500992515	7.610776816	7.267024828	6.467162927	7.13579993	6.941098217	7.13579993	7.065905854	7.065905854	7.065905854	7.090446942	6.536160155	5.94872468	6.823790667	7.285239052	7.199291874	7.06543096	7.334399956
HRH4L2	7.37834264	7.069882803	7.716903242	7.199378019	7.16888982	7.472626576	6.986594712	7.012951816	6.982108126	7.267884563	7.287527458	7.206079508	6.31307414	6.888929369	6.826778081	7.66647369	7.21311469	7.21311469
RP6KAC	5.778995061	7.192373109	6.215258456	7.781013978	5.849011554	6.086204311	6.486733694	7.609773908	8.005256384	7.197884991	7.062788227	6.438786007	7.909185671	6.314760915	7.348784562	7.143484305	7.09912647	7.09912647
RAC1	8.327412953	8.274510077	6.271650978	7.403729355	7.83350099	6.158046894	6.87149362	6.937109862	6.841744596	6.91785862	7.07060003	6.47682558	7.37044268	5.19697217	6.31887961	6.311795124	6.311795124	6.311795124
ATAD3C	7.131620187	7.097940688	7.359884372	7.097940688	7.359884372	7.097940688	7.359884372	7.097940688	7.359884372	7.097940688	7.062778794	7.038903003	7.138451628	6.073607945	7.043601153	7.1258951983	7.27284468	7.078929511
CEP25	7.643069809	5.929701146	7.742022698	7.278699709	7.096786277	6.257337553	7.710439881	6.910792535	6.999811431	7.149728676	7.170111502	8.124258684	6.248661126	6.316808655	6.665920477	7.0581673	7.585766924	7.211088426
KIF12	6.882066804	5.882664313	6.068531044	6.98207795	7.837056947	7.837056947	7.837056947	7.837056947	7.837056947	7.837056947	7.043403734	6.106811255	7.557514526	5.614163644	6.797218593	7.727564227	7.842031211	8.167775303
CLIP207	6.884410009	7.755287225	7.483931836	7.67160653	7.46975396	7.07598599	7.08601261	7.235111426	6.757636691	7.023722261	7.729999183	7.29755921	8.238464091	6.203247324	7.179785805	6.694025670	6.860031696	7.493949394
PTCH1	7.967242302	6.641659016	7.021952488	6.914596951	6.986380866	6.3956741	6.839984758	7.48657392	7.341819157	7.366023519	6.882859381	5.983641099	6.39661003	7.24323025	7.463182463	7.66543998	7.39158212	7.39158212
SNX11	7.054393086	8.136317108	6.420905337	8.003623583	7.372193076	7.30665167	7.017962314	6.882544699	7.296490393	7.293400305	6.967926292	6.761468858	5.939300043	6.313158323	6.995289227	7.261361554	7.29796397	7.910051724
CDK5	8.327412953	8.274510077	6.271650978	7.403729355	7.83350099	6.158046894	6.87149362	6.937109862	6.841744596	6.91785862	7.07060003	6.47682558	7.37044268	5.19697217	6.31887961	6.311795124	6.311795124	6.311795124
SNAPB	7.608656454	7.103292702	7.410898385	7.779737246	7.119398385	7.779737246	7.119398385	7.779737246	7.119398385	7.779737246	7.407606337	7.149397184	8.262616466	6.82387662	6.814927285	7.06212226	7.048133938	6.981369187
MC1R	7.28812713	7.116916135	6.291605364	7.297095319	6.324847638	7.62900274	6.705946863	7.36351069	6.990216327	6.875054036	7.218485939	7.637932443	9.727212218	6.453458993	7.306787988	7.09916182	7.02435035	7.066218998
SLC41A1	7.659612337	7.736851178	7.37971727	7.129737192	7.129737192	7.577302975	7.089287376	7.38251012	7.089287376	7.38251012	7.44676393	6.824623105	5.58373659	5.574177664	7.970463372	7.03328901	7.129307215	7.647406369
POLR3F	7.090282516	6.963863305	7.668683807	6.836148094	7.510737932	5.893690328	7.933318816	6.978749454	7.279734106	7.287048147	6.679628202	7.302607066	5.957661806	7.70692765	7.042261885	7.164052935	6.883263869	7.277983117
ZNF83	7.220124216	7.003337043	6.779699894	7.632732697	7.552725637	7.04966901	8.134379047	7.857614012	7.082588846	6.596617684	7.082588846	6.596617684	6.89933787	6.100090757	7.167039869	7.63440189	7.08597118	7.25459321
KBTB07	7.550233691	5.834076165	8.340217752	7.438132448	7.548693383	7.039293585	7.728408469	7.682688426	6.696805137	7.212385394	6.72180888	7.266570235	5.489468776	5.754757045	7.807934566	7.707793375	7.697791352	7.697791352
RFBP2	6.580451007	5.538860751	7.21447252	6.580451007	5.538860751	7.21447252	6.580451007	5.538860751	7.21447252	6.580451007	6.58							

ZNF490	6.495359165	7.345693574	6.359779613	5.854939396	6.120844526	6.009416267	7.615703847	7.430871004	6.874172355	7.26225055	6.523424227	6.071270661	7.111272525	7.175083437	7.738402349	7.465151124	7.405354521	7.079654823
NEU3	6.190992478	6.4447295736	7.434868358	5.90188509	6.50364231	7.215569056	7.106888352	7.143304663	6.510873449	7.301080005	7.313422558	5.896215568	7.178335465	6.741836058	7.214950328	7.017394368	7.088399502	7.178266949
METL22	6.217763579	6.852867189	5.616829638	5.924280042	6.999893261	7.086294876	7.073977174	7.662035687	7.104190447	7.178423783	7.422423561	7.081809958	5.6141537	7.395743768	7.531754945	6.742272663	7.265322884	6.739746449
PKR3R	5.734032547	5.923698402	5.800659127	5.573586792	6.922668988	7.13889149	5.540164378	7.938898037	6.701310486	6.975654065	6.881188992	7.260894162	7.513195208	7.713958486	8.150631628	7.627654911	7.534309234	7.276098817
ADGR1C	6.821932559	6.628316258	6.795132505	7.20113105	7.059867717	7.253731515	6.832974421	7.294377801	6.970144111	7.204378019	7.017416589	7.172131549	6.880582364	6.82276568	7.218915866	6.82276568	6.732127724	7.229616085
PLAZA6B	6.705234923	6.754857802	7.044862194	6.725823293	6.769783953	7.21244206	7.212019238	7.68129556	6.855380984	5.713009308	6.855133898	7.243435058	7.120452487	6.71195165	6.847219617	7.17342039	7.584694283	6.753414763
GRM4	5.640997923	7.781538196	5.527519668	5.695346993	7.098285899	7.31516811	7.364823306	6.507614947	7.088144048	6.934728874	7.568687289	7.616956582	7.706940094	7.549124879	6.320450512	7.202392028	6.531741647	6.891954548
INP5F	7.344804935	7.417194464	6.741794464	6.165843954	7.527470239	6.165835554	7.6731411278	7.169154424	7.322847538	6.974278456	7.595667574	7.038129528	7.017039115	7.007306972	6.959430624	7.221963054	6.689936475	7.128974506
CLIC3	6.383066642	6.402586212	6.869432559	6.584290296	7.359331241	7.5651252118	7.640880156	6.61489121	6.616027338	7.187251884	6.81152533	8.037762491	7.489744195	7.593007238	6.900384824	7.095414746	7.298273786	7.088873043
CERS4	7.500923312	6.499484677	6.499484677	6.512884774	7.505544826	7.505544826	7.881889368	6.7117259215	7.107209004	7.000109889	7.680575341	6.821440809	7.644433821	7.699427427	6.924060957	6.83943619	6.728329565	7.02214231
RAB4B	7.122783675	7.224367378	7.224367378	6.658987338	7.337687042	7.276194192	5.874299148	6.962977645	7.110179901	6.962977645	7.110179901	6.962977645	7.110179901	6.962977645	7.110179901	6.962977645	7.110179901	6.962977645
CFP2R1	7.620551484	7.095511154	5.589481268	7.328847365	6.829847662	6.257957716	7.249323906	7.185647305	7.123570295	7.160275377	7.328847365	7.451822505	5.741510681	5.885703739	6.834303767	7.074715096	7.105904001	6.694776617
AC11	6.96077257	5.910717356	5.786651455	7.524048991	5.764522964	7.050155607	7.341097603	7.11515148	6.483978771	7.315395353	7.784698397	7.019379971	7.429399712	7.123346441	6.906463441	7.815338673		
TA1F	6.608676505	6.282641559	6.47685576	6.575267315	6.514982675	6.913498815	7.602104399	7.476907918	6.87256286	7.33295614	7.02863511	7.150388119	6.62323641	7.163861923	7.298720385	7.454391033	7.727990952	6.979773217
FAH	6.797166393	6.013488165	7.750506245	6.735722708	6.750506245	6.735722708	6.861990712	7.111038793	7.111038793	7.002874879	6.929100823	7.444416379	6.104758962	7.038559191	7.084928103	7.320227876	6.699766995	
XK	6.649681959	7.220624546	6.675835335	7.554096656	7.831817181	6.403219629	7.188935358	6.552053322	7.118962139	7.044117563	6.909124851	7.68621152	7.718066749	6.298413593	6.909870252	7.286886779	7.260371919	7.059128591
BMF	6.162292305	6.623209956	5.975604858	7.780886623	6.305094332	7.240858003	7.255676027	7.18283183	7.058803575	6.87031517	6.376932352	7.245340093	6.306878843	7.481983054	6.955852161	7.297348119	7.117050303	
RFCS	6.774521231	7.34406059	8.043155729	7.487024198	7.140955004	6.945966499	8.069693127	7.279318141	6.915781511	7.018828474	6.806558661	6.971713171	7.625353551	7.950842424	7.048365989	7.126401129	7.347189197	7.276456934
Cl40r169	7.569034775	5.75920237	7.563890607	6.999790008	7.346119751	7.5203266	7.119131382	7.102287471	7.102287471	7.102287471	7.102287471	7.102287471	7.102287471	7.102287471	7.102287471	7.102287471	7.102287471	7.102287471
MAS74	7.481131869	6.480947375	6.402177099	7.511733957	5.815757374	7.11785729	6.240940341	8.095686644	7.055945823	7.498106143	7.507240614	6.91616549	6.4240172521	5.892688887	7.776876182	7.295580375	6.92967712	7.957194308
STR3	7.12302431	5.59383394	5.79867959	8.457694652	5.80181311	6.640868314	7.397175021	7.59343553	7.063898999	6.44029152	6.97953464	7.62864862	7.0755904	6.868651508	7.554023178	6.934851879		
FAM175B	7.118859356	8.261650229	6.86714707	8.0915873	6.588134263	6.268962652	6.79387801	7.473230368	7.18923958	6.85734696	6.51619382	7.10843375	6.540479252	7.038162709	7.367596962	7.053085365	7.186781035	
POLR1E	6.911444774	7.775540722	5.958590825	7.665655856	7.059259624	7.11171465	7.64498316	7.222747342	7.365757844	6.902880252	7.304222421	7.459832758	7.350577999	5.54381555	6.47679027	7.569519869	6.72617307	6.335855438
FAM210A	6.812915531	7.214248833	6.3681350973	6.612546512	7.074782533	7.238857376	8.003916962	6.541169689	7.004054819	7.004054819	7.445213924	7.452300115	6.75854129	7.782143416	6.521577945	6.765738887	7.159491858	6.630636032
FCHS01D	6.864795055	5.864877115	6.791131403	6.800384529	7.023794975	6.635501308	6.882303085	7.205411632	6.882303085	7.146870585	6.991236887	6.966129603	8.017036464	7.587447501	7.305380918	7.2234558	7.427570711	7.88533647
HST12HAZ	7.614447753	7.698420762	7.614447753	7.094771628	7.136224005	6.685015688	6.164466427	7.320879723	8.2601381	6.945105108	6.98133066	7.70355922	6.662675051	6.119253792	7.22707697	6.798341756	7.079499972	7.04136644
MYO3B	6.940466104	6.457396124	7.37978846	6.145223584	6.365673533	6.778173895	7.210717177	7.345913035	7.63491802	7.204924093	6.950741673	7.962394204	6.829554886	6.220895119	7.264000788	7.89126	7.75412944	6.898984862
TKAF1	6.821932559	6.628316258	6.795132505	7.20113105	7.059867717	7.253731515	6.832974421	7.294377801	6.970144111	7.204378019	7.017416589	7.172131549	6.880582364	6.82276568	7.218915866	6.82276568	6.732127724	7.229616085
NTRCC	6.453278209	6.038423961	6.364570344	6.196517445	7.906966178	6.449546134	7.537086725	7.171621052	7.083101303	6.519023325	6.94897123	6.949140651	6.598928797	6.808397386	6.513804892	7.127128245	6.836771458	
SNAPC1	6.859885727	8.212792532	6.786139203	7.612748853	7.065421076	7.301010852	7.031437394	7.310315479	7.213729344	7.021519026	7.535411515	7.628810574	7.641542069	7.094636805	6.986699343	6.831689793	7.112199208	
FORKED2	6.634276572	7.639394989	6.634276572	6.746720167	7.066317673	6.567479831	6.421773249	7.145744644	6.421773249	7.132543366	7.1393916492	7.01724291	8.542551486	8.479308075	7.050122771	7.50295189	7.09347875	7.117050303
ZNF83	7.296819012	7.594009716	7.406340119	7.222762723	7.941387709	7.659051325	6.937381219	7.230324274	6.920980084	7.468587523	7.031994477	6.978888152	6.750789883	6.329513037	6.77770736	6.683744434	7.126460911	7.60193165
MICA	6.712758971	7.39088368	7.39088368	7.074818353	6.434578015	6.434578015	6.804559322	7.180205703	7.048137304	7.083179338	6.301034964	7.400498373	8.03075872	7.096280177	6.907151824	6.885027873	6.897707315	
RANBP3	7.371272248	7.178888805	7.216238596	7.209306043	7.19592565	7.210728778	7.454439007	7.028974247	6.778447747	6.799119846	7.63478888	7.038311385	7.119190608	7.326262502	6.963166446	6.900735463	6.990836084	6.822946648
FOXF2	5.102796636	7.18717425	5.022948567	5.022948567	5.022948567	5.022948567	5.022948567	5.022948567	5.022948567	5.022948567	5.022948567	5.022948567	5.022948567	5.022948567	5.022948567	5.022948567	5.022948567	5.022948567
RNP3	6.742768649	7.641626165	7.641626165	6.742768649	6.742768649	6.742768649	6.742768649	6.742768649	6.742768649	6.742768649	6.742768649	6.742768649	6.742768649	6.742768649	6.742768649	6.742768649	6.742768649	6.742768649
KRT8	6.411317526	8.20900221	7.83597343	7.868988498	7.588545966	7.369717058	6.514250666	7.66355774	6.548655372	6.965002077	7.6940013292	7.183189796	6.353630547	5.876871697	9.043974861	6.403030124	6.84291155	11.67443372
HAR1B	6.965064094	6.965064094	6.965064094	6.965064094	6.965064094	6.965064094	6.965064094	6.965064094	6.965064094	6.965064094	6.965064094	6.965064094	6.965064094	6.965064094	6.965064094	6.965064094	6.965064094	6.965064094
TRPM4	7.393549229	6.98429405	7.597482872	7.126771789	7.523089978	7.195212311	7.059800756	7.635725147	7.176674913	7.088668081	7.41856897	6.350435856	6.920030536	8.811451262	6.853455659	6.549813641	6.483938687	7.506776658
RRP9	6.723004929	6.984901061	6.694901061	6.723004929	6.694901061	6.694901061	6.723004929	6.694901061	6.694901061	6.694901061	6.694901061	6.694901061	6.694901061	6.694901061	6.694901061	6.694901061	6.694901061	6.694901061
PWWP2B	7.45998225	7.546624942	6.89515737	6.89515737	6.89515737	6.89515737	6.89515737	6.89515737	6.89515737	6.89515737	6.89515737	6.89515737	6.89515737	6.89515737	6.89515737	6.89515737	6.89515737	6.89515737
GEM	5.297845328	5.687604209	5.285911971	5.386762158	5.657589777	5.78230665	5.500260292	7.477971771	7.511627835	7.070000431	7.020593185	6.365174	7.073201612	7.749586612	7.748580961	6.902862758	7.2	

ZNF182	7.017672391	6.243262307	5.576154783	7.165395573	7.806052966	5.587344311	6.43105763	6.97248371	7.62522393	6.990924192	7.183975276	7.535697431	6.693653961	7.396781697	7.008832691	7.162023763	7.16224712	6.444242674
ZNF71618	7.466646362	7.848248391	6.501929624	7.630412372	7.802911447	7.548329173	6.468046058	6.969555417	7.016988008	7.477220112	6.630579895	7.031845849	6.439767772	6.492832614	7.097350398	7.004044480	7.155460386	6.792320105
ZNF170	6.291941652	6.891112238	6.691464545	7.680423729	7.046488167	5.58971091	6.785353628	7.027268915	7.224248451	6.739272246	7.29909636	6.710251815	6.724617337	6.375644643	6.974753073	7.269924759	6.69898808	7.407428699
Clorf131	7.152656143	6.96493996	8.197324018	7.515409932	7.237175451	6.613915973	6.780895079	7.026877823	6.794190096	6.906118048	6.638544478	7.767878539	7.234449991	6.168874567	7.126672303	6.992244103	7.160233873	6.619026469
Gorf25	7.117991628	7.06304532	7.103109834	6.796111237	7.149023341	7.114009048	6.83857831	7.100991299	6.783873455	6.783873455	6.974126725	7.074432705	7.064411415	7.158973795	6.843573245	6.98667976	6.733399392	6.733399392
ZIC20A2	6.844654541	6.96243988	6.986427356	6.986427356	6.986427356	6.986427356	6.986427356	6.986427356	6.986427356	6.986427356	6.986427356	6.986427356	6.986427356	6.986427356	6.986427356	6.986427356	6.986427356	6.986427356
GALN24	5.734348032	7.137021543	6.509232615	7.493134345	5.82980662	6.630450022	7.522622722	6.754777526	6.784718257	6.57215607	7.017231256	6.466431321	5.759665312	7.000117719	6.74312589	7.357615851	7.124311605	7.893941214
FIZ1	7.834304257	6.296559753	7.457766443	7.457766443	7.457766443	7.457766443	7.457766443	7.457766443	7.457766443	7.457766443	7.457766443	7.457766443	7.457766443	7.457766443	7.457766443	7.457766443	7.457766443	7.457766443
DDX28	7.561178901	5.532857893	7.578532845	6.901458945	7.276370032	7.37628194	7.116424276	6.75604764	6.910175662	7.144765785	6.996848329	7.933207184	5.537947449	7.427064462	6.174521413	6.565320483	6.735915634	7.017801586
PATL1	7.095107505	6.944274609	7.03225514	6.430928447	6.532101935	7.545509081	6.667168297	7.479196488	7.166793975	6.818394778	6.959491208	7.144709449	7.561352634	6.635986048	6.939101543	7.14154278	6.939101543	7.23959974
KFC2	6.587961665	6.37255052	7.106673054	7.62181781	6.925711603	7.200909333	7.152438887	7.015217704	6.747768491	6.766793975	6.766793975	6.766793975	6.766793975	6.766793975	6.766793975	6.766793975	6.766793975	6.766793975
CTC-435M10	7.112003476	7.144035451	7.829473128	7.532036691	5.828002036	6.81605766	7.154572747	6.88305362	7.174914263	6.55425646	6.89695885	5.664752635	8.146479897	6.483433743	7.254865706	6.898872841	7.05476811	6.843573245
ZNF54	6.78991094	8.081684835	7.779691165	7.1614317	6.234476892	7.781931309	8.02389641	7.129146651	6.855020311	6.88124062	6.55991277	7.910814626	7.60782357	5.957830109	7.339749245	6.822627513	6.84935434	6.695343136
PXC01	7.819715086	7.31348906	7.149825885	6.942931589	5.927749627	7.487028202	6.683700052	7.671577607	6.618950027	7.115213025	6.616442655	6.585145378	7.205073761	6.940834539	7.06943941	6.888239345	7.257372579	6.888239345
CTC206ff	6.544183051	6.946299735	7.132730937	7.475376865	6.810992238	8.026876902	6.88430756	6.741223142	7.088278872	7.13946047	6.942421384	7.025466017	7.764735976	6.804584329	6.983238232	7.592483951	7.3930093	6.865383077
STAR1D3	6.66055774	6.526380421	7.276430157	5.430241794	5.84781106	6.389336017	6.34380125	7.27775315	6.853823961	7.824473294	6.76002571	6.264002571	5.764721289	6.574971651	7.175316394	7.253982901	7.66526595	6.66526595
UTS2B	6.334858086	7.077377476	7.492796056	7.039527484	6.986878747	7.048322075	6.963757709	6.766674779	6.952242655	6.58045999	8.017195493	7.543344897	7.319749817	6.844054319	7.084916491	7.638931487	7.091170015	7.091170015
AC027	5.971823498	6.450437626	7.758821218	7.53719253	7.616853181	7.816937924	6.889729254	7.609521558	7.093222441	7.047878369	6.845866143	6.808116164	6.346989372	6.959022424	7.349175391	7.779151505	6.805164035	6.805164035
MARVELD2	6.560532081	6.529677877	7.287176691	7.649796262	6.094262656	7.595597693	7.998904763	7.002878574	7.280816175	7.003654364	7.054222213	7.730682598	6.512013636	6.575710016	6.779340968	6.877050731	6.452757038	6.452757038
DK01	7.384036518	7.507369595	7.250945421	7.574920215	7.536548244	7.239044203	6.611368889	7.148549712	6.826943872	6.898929294	6.869866696	7.293057933	7.070149776	6.934149395	6.795938069	7.00224831	7.00224831	7.00224831
TEC41	7.887297662	7.23405057	7.268002441	7.474577851	6.09908084	7.158986154	7.012656409	6.916289204	6.833182064	6.978287956	6.878297511	6.629709811	6.113750429	6.808383661	6.894011045	7.09105862	7.117531769	6.827324254
FAM104B	6.37397806	7.30084252	7.682245824	7.460611927	6.83505334	6.816482772	7.361518677	6.957852465	7.126867094	6.83350871	7.20006423	7.250158376	7.765040633	6.734183077	6.706672389	6.935170988	7.047718629	6.792222224
KANS11L	6.894503681	6.954531614	7.596583192	6.298937712	6.758812219	7.067853406	6.87895733	7.348832598	6.629709811	7.313489497	7.263954563	6.613750429	6.808383661	6.894011045	7.09105862	7.117531769	6.827324254	6.827324254
PON2	7.418309827	7.677048547	6.063093067	6.844451967	6.99804962	7.005175831	6.734908358	7.160442248	6.726121931	6.930316972	6.294345763	6.41280323	7.215933254	7.216304851	6.21184587	6.168859072	6.366498815	6.366498815
LIRC57	7.140301375	7.061159968	7.263132456	6.076704025	6.723396367	6.723396367	6.723396367	6.723396367	6.723396367	6.723396367	6.723396367	6.723396367	6.723396367	6.723396367	6.723396367	6.723396367	6.723396367	6.723396367
ABC81	7.394001375	7.409674751	7.25624732	6.98243694	7.347756666	6.995374845	6.523866612	6.898705768	7.72643417	6.351171157	6.895820611	7.206808008	7.020000444	6.797235866	6.019134417	7.384734324	6.45169086	6.392304817
EPB11L	7.258056642	6.871981911	6.871981911	6.871981911	6.871981911	6.871981911	6.871981911	6.871981911	6.871981911	6.871981911	6.871981911	6.871981911	6.871981911	6.871981911	6.871981911	6.871981911	6.871981911	6.871981911
NI7	7.637950203	7.669972537	7.168449706	7.23186007	6.937164116	7.548272576	6.894485254	7.246708983	7.035344333	7.73314668	7.421072898	6.767213757	5.857619954	6.930014966	6.962184066	7.235418639	6.812271116	6.236640462
PF04N	7.322793087	7.018832659	7.497437165	7.018832659	7.497437165	7.497437165	7.497437165	7.497437165	7.497437165	7.497437165	7.497437165	7.497437165	7.497437165	7.497437165	7.497437165	7.497437165	7.497437165	7.497437165
TCPH	7.316314213	7.547976829	6.050578919	7.029727271	7.65464037	7.179847399	7.455034532	7.048561493	6.931481135	7.407813907	6.914858077	7.242212722	7.171069144	6.511699363	7.053199783	6.949172682	6.965386703	7.256464889
TPAL	7.174240868	7.716399848	6.86846291	5.787937326	5.9644862	5.942448274	7.114602134	7.327089993	7.300540486	6.072283025	6.587051213	6.188031068	7.443212341	6.913397398	7.079663491	7.726476285	7.726476285	7.726476285
GAT8	7.646549345	6.981297953	5.901981888	7.32678941	6.8811012815	5.858185048	6.020552371	6.861267325	7.185654665	7.024936607	7.239746633	7.147349901	7.51409789	5.634280466	6.857294233	7.349685724	7.349685724	7.098873049
BORA	6.602618011	6.512727799	7.258470289	6.357449289	6.357449289	6.357449289	6.357449289	6.357449289	6.357449289	6.357449289	6.357449289	6.357449289	6.357449289	6.357449289	6.357449289	6.357449289	6.357449289	6.357449289
ZXD	6.568815863	6.688502229	6.210172972	7.353971975	5.56515216	7.421802725	7.311059488	7.789363077	6.753506561	6.969274918	7.76702734	5.972447877	5.400642742	5.748272524	7.926331913	5.157272117	7.008023179	7.019259287
R1P1-286N2	7.613800595	7.065824660	7.179109388	6.618395692	7.450847053	7.178841619	6.841839569	6.69936462	6.818395692	6.73822381	7.38222381	7.650226085	6.743547454	6.585964668	6.849994468	7.004861496	6.631313215	6.631313215
PIGB	6.776429478	7.426427513	7.080967482	7.480206121	6.515650044	7.264423305	7.376389619	6.729050187	6.850557119	6.964784321	7.163966609	6.47930542	6.916533898	7.358179031	6.706861865	6.989071529	6.998918275	7.166837477
TAFL	6.108354617	6.520681344	6.208824213	6.108354617	6.520681344	6.208824213	6.208824213	6.208824213	6.208824213	6.208824213	6.208824213	6.208824213	6.208824213	6.208824213	6.208824213	6.208824213	6.208824213	6.208824213
SIC25A37	7.104445283	6.19733925	6.208824213	6.081265033	6.081265033	6.081265033	6.081265033	6.081265033	6.081265033	6.081265033	6.081265033	6.081265033	6.081265033	6.081265033	6.081265033	6.081265033	6.081265033	6.081265033
ZNF614	7.195853939	6.75948518	6.75948518	6.75948518	6.75948518	6.75948518	6.75948518	6.75948518	6.75948518	6.75948518	6.75948518	6.75948518	6.75948518	6.75948518	6.75948518	6.75948518	6.75948518	6.75948518
ANK1	6.84213828	7.871651139	7.037937713	7.428696002	5.13079035	6.13079035	7.009742002	6.176439287	6.456903612	7.101618174	6.469212195	5.14441097	5.994747374	6.95545687	5.83754028	7.127034809	6.126663937	6.126663937
ZNF116	6.893148538	6.893148538	6.893148538	6.893148538	6.893148538	6.893148538	6.893148538	6.893148538	6.893148538	6.893148538	6.893148538	6.893148538	6.893148538	6.893148538	6.893148538	6.893148538	6.893148538	6.893148538
ZNF116	6.893148538	6.893148538	6.893148538	6.893148538	6.8931													

ARL8A	6.79811627	7.17240623	6.61606854	6.793437855	6.967335515	7.218136271	7.111006712	6.810306645	6.884992033	6.478997974	7.142637224	7.003114012	7.163351344	7.040420824	6.923955412	6.69697803	6.63566779	6.356386181
CLB	7.93096179	5.567958123	5.399727933	5.58001271	7.534014166	6.978144165	6.487998712	7.33399732	6.686273954	6.883490682	6.884479562	6.783832516	5.403516525	6.238576287	7.171487849	6.740780173	6.920612452	7.482065991
DNAL1	5.838061319	7.598963578	6.061122092	6.061122092	7.035117518	7.203809769	5.787830189	7.060823482	6.932318188	6.887890875	6.851175588	6.189658535	5.948312631	5.723050582	6.618839583	7.146896056	7.703766261	7.16926811
SLC35A2	6.805295499	5.638613755	5.626826097	7.776164765	6.84320447	5.735139419	6.818686362	7.364319923	7.213748859	6.7931137	7.176524544	6.959423336	7.641546827	5.733123249	7.396108058	7.096082524	7.096082524	6.69954849
SLC35A4	5.948398979	5.243761613	5.237175415	5.237175415	5.237175415	5.237175415	5.237175415	5.237175415	5.237175415	5.237175415	5.237175415	5.237175415	5.237175415	5.237175415	5.237175415	5.237175415	5.237175415	5.237175415
B2G1	5.566926912	6.417151759	6.417151759	7.473153751	7.458894575	7.488315734	6.959235939	6.871184267	6.930636766	6.963818443	7.005454042	6.843145998	6.671077333	6.671077333	6.671077333	6.671077333	6.671077333	6.671077333
CPV6A1	6.508461628	5.796416446	5.796416446	7.389057383	7.131594799	5.894301028	7.069332383	5.826812405	6.988046894	6.441569853	7.185829194	6.942621594	7.026836579	5.902448619	6.868813778	6.928797769	6.701682354	7.20563562
MAM1L	6.173706123	7.246071619	6.901488	7.246071619	7.04234995	6.379072608	7.098393756	6.832960338	7.108365366	6.855024478	7.12923961	7.151334748	7.694665951	5.989088979	6.675259409	6.957075928	6.893210245	7.753290139
BBSA	6.974438614	7.190762046	5.763031272	6.969301358	5.747319627	6.850660367	6.897145947	6.852856474	6.749820146	6.899769064	7.051416621	7.365456754	6.26868069	6.824839864	7.006713178	6.623959546	7.276564528	6.842803932
GALNS	6.904875938	7.033672498	7.124946892	7.094375738	5.826578799	6.423075151	6.423075151	6.423075151	6.423075151	6.423075151	6.423075151	6.423075151	6.423075151	6.423075151	6.423075151	6.423075151	6.423075151	6.423075151
LIN9	5.892420595	5.892420595	5.892420595	7.032725117	6.924269333	6.555358614	7.082550241	7.082550241	6.871507769	7.135265101	6.871507769	6.824010726	7.066993462	6.823719266	6.906993462	6.823719266	6.906993462	6.823719266
CPV2U1	5.413843414	7.397386833	7.47956211	7.397386833	8.369737493	7.484613859	8.114665258	6.629156166	6.693507525	6.579567201	6.489585565	5.40431507	5.404702469	7.633975338	6.874045374	7.12580639	7.015578452	6.92027168
IT17J2	6.834103208	5.440501578	7.197555557	7.197555557	6.901519555	5.368680748	7.221645826	6.893230224	7.29735443	7.054949203	7.039548148	5.428595752	5.458909352	7.176788967	6.777193186	6.532732601	7.97526669	
MTA1	7.075260926	7.033190366	7.429294512	7.39574073	7.07882084	7.104621028	6.944984199	6.872133358	6.768566112	6.776038697	6.863986789	6.564183045	6.767006104	6.756885204	6.921049858	6.762851967	6.561190197	6.538541936
ZNF219	6.985368814	6.215050735	6.155399525	7.236117914	6.654058777	6.792485976	6.791453915	6.930404681	6.862309541	7.437696868	7.110172986	7.04285832	6.784077598	6.960607228	6.952942968	6.970730564		
TST	6.905389285	7.636900232	5.738893505	6.526004319	6.859368540	5.841340889	6.883101513	6.776485559	7.172149475	6.906480954	7.498874091	7.32018731	8.211443808	6.297913751	6.944910438	6.627261455	6.816340501	8.068281138
PUDP	6.327425206	7.063105802	7.063105802	7.063105802	7.063105802	7.063105802	7.063105802	7.063105802	7.063105802	7.063105802	7.063105802	7.063105802	7.063105802	7.063105802	7.063105802	7.063105802	7.063105802	7.063105802
SLC16A3	7.078316364	6.608299599	7.311490119	6.715196011	7.494489549	6.791508058	6.972580243	6.977137223	7.252480243	7.68881104	6.955270876	6.843261725	6.633344913	6.660848498	6.59381011	7.112979142	6.599000517	6.940433155
PKP4	6.038726237	7.719252277	7.33456471	7.33456471	7.51420292	6.579550931	7.973057507	6.71373902	7.190196707	7.082799964	6.09620374	6.227833683	5.464237512	7.102625135	6.527010131	7.10644005	6.805199127	
ENDOV	6.849598615	6.807616057	6.384785955	7.367808663	6.893786604	6.718406461	6.904945724	6.904945724	6.904945724	6.904945724	6.904945724	6.904945724	6.904945724	6.904945724	6.904945724	6.904945724	6.904945724	6.904945724
MTX1	5.925196815	5.405422059	5.386680754	6.960463728	5.415664403	6.580750984	7.207593421	7.022392655	6.42114353	6.882999978	7.088137372	6.486228679	7.164865064	8.297954471	7.699118005	6.789703059	7.037386509	6.526568408
TPS3	6.884985263	6.88429347	6.615337233	7.333004173	6.547376557	6.698015822	7.095730873	6.733172522	6.733172522	6.733172522	6.733172522	6.733172522	6.733172522	6.733172522	6.733172522	6.733172522	6.733172522	6.733172522
FLYWCH2	7.337246632	7.000184515	7.396161001	6.304828654	6.800852999	6.638019194	6.285012486	6.770167335	7.215236485	7.045477653	6.965916712	6.656999799	7.25467636	7.546785288	6.785658893	8.869272368	6.909870919	6.775262416
ADAM32	6.738815356	6.683463686	6.816269294	7.67028772	6.51162208	6.354576272	6.909793674	7.576343514	6.657845181	6.743315502	6.89406167	6.642815591	6.884114863	7.678996426	7.483684685	6.829825283	7.221129554	
CL40rF80	6.774277839	6.869477531	6.056516594	6.862397112	6.479391731	7.522584834	6.907557542	7.103296128	6.85491703	6.85491703	6.745024665	5.991398475	6.720289448	7.271326989	7.179800231	6.906263274	6.93392872	7.399330233
ATP11A	8.588864121	5.612493871	5.612493871	7.666247848	5.70662411	5.29634793	5.618403258	7.290656327	7.366247888	7.920686795	6.884879595	6.229560169	6.866833819	6.637712703	7.275128685	6.662267164	7.252020929	7.35124441
ZNF212	7.531026627	8.188386147	7.542447049	6.856756839	6.862101015	6.653765588	7.094716136	7.162025509	7.088425949	6.912160706	6.842820854	5.756857398	7.45426962	6.6403732	6.664132704	6.74000297	7.02835045	6.64393935
PAZ1	6.934664939	7.421337954	7.421337954	7.421337954	7.421337954	7.421337954	7.421337954	7.421337954	7.421337954	7.421337954	7.421337954	7.421337954	7.421337954	7.421337954	7.421337954	7.421337954	7.421337954	7.421337954
ED7	6.097569968	6.097569968	6.097569968	6.614681449	7.2864478	6.65347458	6.359898966	6.96118036	6.93073002	7.07375482	6.745320513	7.183735199	6.649673149	5.72523194	7.250951034	6.840088349	6.608381026	6.99446733
HEATR3	5.495103817	5.377794129	6.856184948	6.168822482	6.266075989	8.330260013	5.506463926	6.395308037	7.824312257	7.00075672	7.289602028	7.744750331	5.699896468	6.91462105	6.663231945	7.048906808	7.243015191	6.971943125
TMEM638	5.860141396	5.903565212	6.787460191	6.877460191	6.443604605	6.646031513	6.19306915	6.963755941	7.19306915	6.825982259	6.836438197	6.617513194	6.360448454	5.64009914	7.778214576	5.494947041	6.916298427	6.408812137
SGCB	6.994486804	5.500308609	7.01873331	6.807005029	7.032584832	6.852520225	7.008748388	6.988122599	6.836438197	6.617513194	6.360448454	5.64009914	7.778214576	5.494947041	6.916298427	6.408812137	6.40125214	7.633657785
PAPS52	7.743154364	7.096849386	7.461124881	7.237002702	6.155420082	6.56843024	6.56843024	6.56843024	6.56843024	6.56843024	6.56843024	6.56843024	6.56843024	6.56843024	6.56843024	6.56843024	6.56843024	6.56843024
ZBT49	6.126497044	7.646435201	7.254737032	5.98971272	7.251677743	6.864570467	5.74375411	6.72872906	6.400023711	6.565149338	7.213737038	6.951328368	7.87272935	6.624513718	6.903065415	7.423013499	6.70009332	6.608729716
LHR1	6.948096236	7.154230393	6.986967526	6.986967526	6.986967526	6.986967526	6.986967526	6.986967526	6.986967526	6.986967526	6.986967526	6.986967526	6.986967526	6.986967526	6.986967526	6.986967526	6.986967526	6.986967526
LRH1	5.647341355	6.358231732	7.368011587	6.80745516	6.80745516	6.80745516	6.80745516	6.80745516	6.80745516	6.80745516	6.80745516	6.80745516	6.80745516	6.80745516	6.80745516	6.80745516	6.80745516	6.80745516
GMNN	6.689528624	5.804712374	6.948695479	6.793738967	6.70470944	6.959254195	7.488590919	7.242787362	6.739268911	6.652524953	6.825004402	7.128675885	6.844584083	7.036200889	6.465259817	6.914227295	7.004917668	7.369687717
GCH1	6.535792656	7.140066622	7.140066622	6.740646522	6.974300766	6.716476275	6.892926929	6.716476275	6.892926929	6.716476275	6.892926929	6.716476275	6.892926929	6.716476275	6.892926929	6.716476275	6.892926929	6.716476275
TMEM181	5.737664292	5.7805346	5.677481763	6.459348461	7.237961672	6.622299927	6.414851962	7.060899147	7.042811889	6.967063355	7.215368701	6.070474185	7.366600012	5.760272	7.544145192	7.318987526	7.985987072	7.500544209
KAT1A	7.766174235	7.325971367	6.448308590	7.237002702	6.155420082	6.852520225	7.008748388	6.988122599	6.836438197	6.617513194	6.360448454	5.64009914	7.778214576	5.494947041	6.916298427	6.408812137	6.40125214	7.633657785
NUJ35	6.853541428	6.68204428	6.83541428	7.25318847	7.061764818	7.025118984	7.460091134	7.007009812	6.673138442	6.673138442	6.673138442	6.673138442	6.673138442	6.673138442	6.673138442	6.673138442	6.673138442	6.673138442
SLXHP	6.438703064	6.987575513	6.985657472	6.787864018	6.053047198	7.070963948	6.236004245	6.840878223	6.881848241	7.51652								

FANCC	6.700430893	5.617889038	8.072717374	5.592772012	6.754914037	5.826438808	7.759639254	6.676744144	6.522329653	7.195345365	6.915763666	7.082845091	7.206661896	6.780430329	6.729029784	6.9494421	6.943346532	7.206299384
TYWS	7.129462811	6.905763933	6.005522507	7.166199731	7.335290711	7.850537033	6.41866402	6.418677227	6.84564461	6.84564461	6.84564461	6.84564461	6.84564461	6.84564461	6.84564461	6.84564461	6.84564461	6.84564461
SLC15A3	7.124138413	6.798463863	6.798463863	6.798463863	6.798463863	6.798463863	6.798463863	6.798463863	6.798463863	6.798463863	6.798463863	6.798463863	6.798463863	6.798463863	6.798463863	6.798463863	6.798463863	6.798463863
TA15	6.122480435	5.733605757	6.264196859	6.414205042	6.110619252	7.495947039	6.029013048	7.044162631	6.679481989	7.225500218	7.04682924	5.991539486	6.032680973	5.488542542	7.438129761	7.167745599	7.015940773	7.250878939
ALM1A	7.518184425	6.789246373	7.731958029	6.789246373	6.789246373	6.789246373	6.789246373	6.789246373	6.789246373	6.789246373	6.789246373	6.789246373	6.789246373	6.789246373	6.789246373	6.789246373	6.789246373	6.789246373
SBC1	6.160823091	6.258237937	6.258237937	6.258237937	6.258237937	6.258237937	6.258237937	6.258237937	6.258237937	6.258237937	6.258237937	6.258237937	6.258237937	6.258237937	6.258237937	6.258237937	6.258237937	6.258237937
GRPN3	5.918553524	5.840048309	5.939002996	6.680044983	6.40896	5.828128389	6.119881281	6.829473661	7.178539001	6.911091934	7.104117188	6.730343803	5.979618282	7.857473133	6.011803047	7.157354781	7.474871456	7.492527868
R81B1	6.89326696	6.872079352	6.872079352	6.872079352	6.872079352	6.872079352	6.872079352	6.872079352	6.872079352	6.872079352	6.872079352	6.872079352	6.872079352	6.872079352	6.872079352	6.872079352	6.872079352	6.872079352
SBNO2	7.115359030	7.074320441	6.785696459	6.663816053	6.782388199	7.149898313	7.003760509	6.870266639	6.73591472	6.780199101	6.944973671	6.869407916	7.516373081	5.891481726	6.670985767	6.982214485	6.990002578	6.814845189
PMS2	7.117459635	7.035146877	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426
EO13	5.601772612	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426
TRAF3IP2	7.153558688	7.053267108	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426
CAPN3	6.99679831	7.205267108	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426	6.7295907426
DARS2	5.338390964	6.987240056	7.016169008	5.733488366	7.354007454	8.064141367	5.468229998	6.65731074	7.025895962	6.394367465	6.869609094	7.216414466	5.33556971	5.347312149	6.92088519	6.910233157	6.612804585	6.805745212
SH2B1	6.866596284	6.987240056	7.016169008	5.733488366	7.354007454	8.064141367	5.468229998	6.65731074	7.025895962	6.394367465	6.869609094	7.216414466	5.33556971	5.347312149	6.92088519	6.910233157	6.612804585	6.805745212
SAMD12	5.621297826	6.666614495	5.577511998	6.224077301	7.200457462	6.908330006	6.746096334	6.995263337	7.153114054	6.752882222	7.142882931	6.568384196	7.352871529	6.998852489	6.696231481	7.00864957	6.756463892	7.389520051
USP31	5.80447863	5.572799136	6.666614495	5.577511998	6.224077301	7.200457462	6.908330006	6.746096334	6.995263337	7.153114054	6.752882222	7.142882931	6.568384196	7.352871529	6.998852489	6.696231481	7.00864957	6.756463892
ZSCAN2	6.864165608	6.240665161	6.538952475	6.58756826	6.981038662	6.970574905	6.850402929	6.679261078	6.813659746	7.022897518	7.488107674	6.857903708	6.334925234	6.650781837	6.740525743	7.300761556	7.21185366	6.746326663
ZNF49	6.382052363	7.348437778	7.218811963	6.736356422	7.163957622	6.876356422	7.1391390783	6.260120471	7.179214554	6.668452532	6.24757565	7.250797468	6.739398279	7.257037945	5.986712314	6.668081364	6.668081364	6.668081364
TDM117	5.915822875	5.914820819	6.814183395	6.814183395	6.814183395	6.814183395	6.814183395	6.814183395	6.814183395	6.814183395	6.814183395	6.814183395	6.814183395	6.814183395	6.814183395	6.814183395	6.814183395	6.814183395
STR2	5.748383838	5.484262032	5.785266202	7.411489434	5.753292927	7.153676727	7.070252821	6.886166759	6.552105262	6.534854059	6.767271881	7.307693054	5.691097883	5.446739652	6.847311154	7.130596022	7.017519515	6.9789724
ZNF583	7.202227072	7.326831163	7.326831163	7.326831163	7.326831163	7.326831163	7.326831163	7.326831163	7.326831163	7.326831163	7.326831163	7.326831163	7.326831163	7.326831163	7.326831163	7.326831163	7.326831163	7.326831163
GSTC0	7.469402681	5.838817974	6.580836711	5.80439595	6.803411347	7.021386397	6.211805711	7.027314525	7.091544045	6.996160137	6.854004003	5.899745653	5.878936209	8.123626601	6.930557074	7.049814005	5.61834	7.288233656
RPTOR	6.889875625	5.971279096	6.746200825	6.456814957	6.927460028	6.296689753	6.578328618	6.902367488	6.95157009	6.969460138	7.319058293	7.185685792	6.713539616	6.745513792	7.063336591	6.798458122	6.798458122	6.798458122
ARGAP35	5.798458122	6.428813087	7.222272234	7.139065403	6.997599189	6.705709418	7.144238975	7.052887781	7.072972912	5.821403875	6.848437107	6.796561606	6.8049829	8.832427393	6.601544802	7.85678369	7.85678369	7.85678369
URB1	5.396851264	8.012018889	5.993201647	5.82502321	6.098802488	7.244347038	7.434214503	6.859979288	7.131661339	7.112924759	6.855929886	6.966579808	6.966170884	7.96555112	6.798052104	6.57120863	6.64895506	6.783620855
PTPRG	5.747266703	5.720851634	7.312277672	7.165188802	5.349303358	5.36639652	7.280118325	7.100820676	6.668916884	5.358977421	6.235840462	6.528866582	6.986224781	6.631539551	7.130479737	7.214919420	7.214919420	7.214919420
WDR3	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136
NEK3	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136	6.864407136
ABI3BP	5.901475603	7.249148633	7.062750326	6.101291265	6.899566515	5.540788226	6.059188662	6.748553368	6.989973436	6.824803987	6.384912351	6.514858726	7.493633538	5.742738769	7.132747282	6.963406008	6.822985695	6.918642391
TL1E1	5.490146505	5.462541658	6.039638175	6.373594995	7.15215962	7.536701619	6.98666477	7.426016135	6.98666477	7.426016135	6.98666477	7.426016135	6.98666477	7.426016135	6.98666477	7.426016135	6.98666477	7.426016135
EXO6	5.897425333	7.38384619	7.013708362	5.912125465	6.796908596	7.228459912	6.224169785	7.228459912	6.480434374	6.761393151	6.708813165	5.89174114	7.098272791	6.253375531	6.882881922	5.96016025	7.117467504	7.341805554
SCRIB	6.736856314	6.564911702	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757
Clorf9	6.671849283	7.12088757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757	7.19288757
AICR50	7.473874888	7.146671034	7.50591676	6.50763949	6.979052096	6.979052096	6.979052096	6.979052096	6.979052096	6.979052096	6.979052096	6.979052096	6.979052096	6.979052096	6.979052096	6.979052096	6.979052096	6.979052096
CEP100	6.005600219	6.005600219	6.005600219	6.005600219	6.005600219	6.005600219	6.005600219	6.005600219	6.005600219	6.005600219	6.005600219	6.005600219	6.005600219	6.005600219	6.005600219	6.005600219	6.005600219	6.005600219
EMZ	6.072087913	7.125725685	6.238066815	6.066654812	6.119734947	6.753067276	7.411395999	6.878245826	6.233799065	6.864757147	6.843003905	6.796962113	5.912645075	7.134045065	6.985424074	6.507894933	6.876547661	6.601068488
ANKK1F	6.156402006	7.567308386	6.58357891	6.58357891	6.58357891	6.58357891	6.58357891	6.58357891	6.58357891	6.58357891	6.58357891	6.58357891	6.58357891	6.58357891	6.58357891	6.58357891	6.58357891	6.58357891
RNF19B	5.707628638	7.892455135	5.361630748	6.451602446	5.356244923	7.581484848	6.232208424	7.478687169	7.997504790	6.547466751	7.666893729	7.090088485	6.5307867	5.682365894	7.691040792	7.307355289	6.255767196	7.891130135
LPGAT1	7.095213114	6.463069933	6.463069933	6.463069933	6.463069933	6.463069933	6.463069933	6.463069933	6.463069933	6.463069933	6.463069933	6.463069933	6.463069933	6.463069933	6.463069933	6.463069933	6.463069933	6.463069933
GD5MB	5.990016832	7.193823194	6.432905045	6.432905045	6.432905045	6.432905045	6.432905045	6.432905045	6.432905045	6.432905045	6.432905045	6.432905045	6.432905045	6.432905045	6.432905045	6.432905045	6.432905045	6.432905045
DG5G	5.663395623	7.051803965	7.351661054	5.460116617	7.062732867	6												

DYRK1B	5.810795762	6.932828992	5.942346317	6.975277854	5.92838775	6.890091124	6.330927789	6.828406874	6.206788617	6.324286203	6.797212007	7.097631322	7.348497724	6.898169375	6.586919822	6.789038842	6.796545136	6.176048907
ZNF280B	7.241660854	6.26155867	6.463423244	6.08517858	7.215242324	7.07137358	6.44704872	6.686690399	6.937051466	6.810666311	6.871155294	6.400938932	7.457569202	6.368639643	6.963427407	6.774673203	6.452573231	6.452573231
ZNF33	6.927747269	6.425648564	5.916236852	5.97451274	6.280854429	6.212175432	7.54315284	7.208584853	6.879668875	7.089917568	6.876812151	6.05576539	7.925477305	7.058824188	7.546547836	6.707458878	7.124728499	7.103677494
ME1	6.69352568	6.407711928	5.48616316	5.475104751	7.080232588	5.494476112	6.919399117	7.026535149	6.743766641	6.113472454	7.082971932	6.461157238	7.05961398	7.033909178	6.946028532	6.839598021	6.366777494	7.134660657
DMP1	5.521965179	6.17223512	6.182491193	6.182491193	6.969020571	6.703402362	6.704787946	6.321921635	6.324973098	6.324973098	6.478618087	6.50453117	7.59877255	7.328502042	6.312129604	6.616592742	6.150435443	6.150435443
CDC66	6.790328194	7.466745014	6.40585889	6.690430666	6.183555119	6.183555119	7.211442073	6.470293505	6.074852121	6.074852121	6.895316983	6.786717717	6.527188211	6.616961775	6.749680555	6.448318995	6.80149214	7.110057746
CACNA1C	6.322557893	7.131276448	7.131276448	7.131276448	6.71219087	5.393550506	5.408732854	7.143214088	6.805656394	6.952578525	6.71219087	7.201994535	5.402673926	7.150353754	7.281651356	6.70207910	6.889773715	5.90694891
FAM74B-1TB	7.693533434	6.962661137	6.157873101	6.962661137	6.678053642	6.59202637	6.951272634	6.791918021	6.636857701	7.121918761	6.469313344	6.211537213	7.29182375	7.106720431	6.550942696	6.999163469	6.549856117	6.549856117
METRLN	7.121669305	6.823731479	6.914273874	7.068533764	5.894864265	6.038214893	6.65721523	6.989225859	6.793576247	6.522307454	7.559771191	6.781674318	6.422028216	6.128036021	6.781441244	6.794341705	6.457661336	7.137455561
MRT04	6.978077123	7.996071219	6.260529074	6.524208484	6.524208484	6.91609555	6.841376531	6.219436427	6.635025113	6.626955739	6.168602611	6.209355774	7.368477043	6.668721933	5.722293661	7.153481731	6.792840198	6.985009777
RP11-249H8	7.144540713	6.814437155	7.103664456	6.492955281	6.97029948	6.839626508	6.59906775	6.625287584	6.759028947	6.818296615	6.679818087	6.50453117	7.282150361	7.649692764	6.645861259	6.613023683	6.466636667	6.466636667
CHP1	7.151544125	6.338217915	6.59351412	6.59351412	6.21092825	7.201894981	6.625291346	6.625291346	6.625291346	6.625291346	6.797959274	6.8392177	6.86358225	6.77473692	6.712931168	6.845824685	7.00870448	6.599521662
AP4E1	6.552817615	7.321817615	5.931801282	6.836108672	6.90399671	7.354529442	7.118834366	6.54325289	7.336091989	6.706145363	6.321369643	6.25237137	7.49458107	6.62645064	6.734088596	6.837920217	7.000572229	6.838116854
RBL1	7.69321406	5.592526055	5.592526055	5.592526055	6.969336889	6.652104745	6.631854603	6.65232899	7.035211955	6.705493289	7.481444212	6.175984404	5.86205697	5.163650482	6.909421688	6.65987204	7.134698911	7.325100835
GBP1	5.241340046	5.62129057	5.22753715	7.074237155	7.11511346	5.978523274	6.908871005	7.394203894	6.720602329	6.65872878	6.8777158	6.84848211	6.107286151	7.253599836	7.86680590	6.515103776	6.403687152	9.80268642
ZNF58	5.52564541	7.377996622	7.0754698147	5.453708379	6.026144994	6.655786834	7.018552036	7.018552036	7.018552036	7.018552036	7.103280372	5.809662029	6.910859959	5.129195468	6.528427867	6.042290691	6.188322899	7.146871474
TMEM182	6.82039492	7.398532477	6.718383361	5.805125058	5.831574884	6.26840262	6.620768175	6.893307255	6.922711894	6.717790326	6.421755645	6.152906392	6.075923548	6.879424062	6.991430929	6.806422689	6.879541561	6.879541561
TS2D	6.653401349	6.728580366	6.032785444	5.764724035	5.890043557	6.856334823	5.864013871	6.984733298	7.116834188	7.116834188	6.717959207	6.696023853	7.05040265	6.132779791	6.723897717	6.837620958	7.104873999	7.104873999
CDC157	6.783376089	5.837742252	6.925421102	7.776724573	5.911023671	6.93811829	6.994857457	6.90406666	6.528331434	6.528331434	6.90406666	6.83905768	6.015046616	6.71267668	7.002740109	6.549474912	6.7795186	6.968676794
ACO7325.4	7.16523406	6.230833018	7.404122481	7.409193889	7.146496459	6.864868465	6.279194895	6.279194895	6.279194895	6.279194895	6.700545992	6.68864592	6.677747878	7.304537986	7.493156971	7.286103605	6.411799508	6.849383513
SMIN8	7.450630029	7.389086111	6.65780857	6.64457478	6.694865612	6.604032819	6.236389796	6.604000065	6.757886226	6.942543844	7.167771274	6.291127902	7.13479462	7.368820357	6.743555498	6.657406198	8.823548067	6.920582895
OBSL1	7.11168956	7.028477121	6.834123294	7.198609109	6.25637494	6.064707136	6.859426321	6.506664384	6.704552549	6.947977965	6.626167572	7.02020047	4.876878384	7.140236675	6.726462767	6.687219272	6.532931705	6.667537846
DNAJA4	7.323811385	5.635724319	5.635724319	5.635724319	7.079918495	6.902525919	7.724219732	6.970673517	6.970673517	6.970673517	6.601826004	5.430885651	6.410015546	6.744921603	7.801145607	6.810478107	6.63921048	6.63921048
OGG1	6.468847036	7.484833886	6.681542492	6.569176261	7.004337571	6.853692753	6.62557035	7.013533572	7.043367504	6.909972184	6.734537527	5.649717821	5.563831397	7.236615375	6.850673043	6.33716392	6.776827258	6.776827258
PGM2	5.561974954	5.564254694	7.499883692	7.135584744	6.518407414	6.317956808	6.4654739508	6.4654739508	6.4654739508	6.4654739508	6.810673112	6.56655739	6.358039092	7.395221391	6.514171465	7.288526585	6.707076236	7.29999736
TLDC1	5.831347436	6.348608178	6.025984853	6.988589237	6.392055252	7.598938827	7.009838297	7.055679123	7.249264137	6.466018936	7.249591661	6.09649521	6.2996754	6.740858607	6.784428315	7.433057199	6.888382604	6.767004953
CARD2	6.73532377	6.182013315	7.170239435	6.392314981	6.694663261	6.59839639	5.987382127	6.977845526	6.532943809	6.532943809	6.874873209	6.874873209	7.214655912	7.048558916	6.730200016	7.145637073	6.330000016	6.330000016
HIRA	6.23046646	6.51045981	6.61068267	6.61068267	6.61068267	6.830194416	6.963303337	6.47767465	6.67715832	6.67715832	6.76607597	7.150541132	6.068003788	7.29086607	6.81577587	6.833894008	6.857749791	6.857749791
THUMP2D	7.014901326	6.105570115	7.796939176	5.44968097	6.550057843	6.733418422	7.506198967	6.995880379	7.09459599	6.68067612	6.659541368	6.942019672	5.496915914	8.379819293	7.144532623	6.800800455	6.677464493	6.539212784
GABR1	6.778761521	6.722757523	6.722757523	6.722757523	5.46326092	6.27657474	6.865566695	6.5374174	6.5374174	6.5374174	6.58372408	7.390618435	7.532830042	6.47105932	7.158544888	6.948147951	6.76251151	6.76251151
WDFY2	7.937340326	7.525964666	5.533706444	6.529945679	6.59865257	7.473141995	6.39055889	7.895414409	7.40663341	7.48105188	6.345261233	7.0812499	8.184536101	5.579125282	7.75189208	7.253184219	7.483661796	6.799856863
ZNF609	6.102638827	7.22550929	7.454288319	6.559732962	6.170793825	7.0144516	6.747482439	6.810159351	6.982620494	6.336243087	6.649842965	6.568288018	6.87025322	6.361120938	7.18384896	6.998506961	6.998506961	6.998506961
ST14	5.028877057	7.864651531	7.899272276	7.918891437	7.812214413	6.687758935	6.378659041	6.708230727	7.827470206	6.823436707	7.827470206	6.823436707	6.823436707	6.823436707	6.823436707	6.823436707	6.823436707	6.823436707
SRFBP1	5.940712252	7.042908174	7.042908174	7.042908174	7.042908174	6.850227981	6.850227981	6.850227981	6.850227981	6.850227981	6.850227981	6.850227981	6.850227981	6.850227981	6.850227981	6.850227981	6.850227981	6.850227981
GAB3	6.032100501	6.699734526	6.750367276	7.242158825	6.92824854	6.46919548	6.050294987	7.091122292	6.713118905	7.006572705	6.782416836	9.85671285	7.162792868	6.134192206	7.41207298	7.280648081	7.336004682	6.740622859
MGRBP	6.991040057	6.249067084	6.196662305	7.597673575	7.161644211	7.072488808	6.754850713	6.810810032	6.810810032	6.810810032	6.586359654	5.82615681	6.486240942	5.599316224	6.71479112	6.833956989	6.800439199	6.751055543
SFA2	6.425949004	6.948924414	6.684014537	6.60489584	6.479859604	6.86283089	7.127513238	7.65483635	6.527320822	6.519734079	6.734329294	7.000249223	7.211662163	7.020521646	6.81562929	6.850638871	6.65438345	6.7677794
SNX18	7.476803662	7.556609241	6.647859921	6.474359292	7.354983124	6.072139312	6.690866054	6.310991172	6.1092798	6.620745302	6.973184434	6.617041732	6.349990399	6.838660509	6.617041732	6.349990399	6.838660509	7.041862791
TBC1D8B	6.600589522	6.549135246	6.365832759	6.735920001	6.434814974	6.319105111	6.486490514	7.03451319	6.887116031	7.364466371	6.880531366	6.328692735	7.676804894	6.760396837	7.183618986	6.899814644	7.520893304	7.326905605
CABSR1	7.038308923	7.160004647	5.86010569	6.178506973	7.026424293	6.73853882	6.549820146	6.755041525	6.760730886	6.760730886	6.760730886	6.760730886	6.760730886	6.760730886	6.760730886	6.760730886	6.760730886	6.760730886
CHD2	6.73532377	6.182013315	7.170239435	6.392314981	6.694663261	6.59839639	5.987382127	6.977845526	6.532943809	6.532943809	6.874873209	6.874873209	7.214655912	7.048558916	6.730200016	7.145637073	6.330000016	6.330000016
ZNF73	7.258226748	5.698391257	6.92800389	6.498874353	7.04206164	6.11108693	6.286415807	6.554274576	6.585932267	7.028144908	6							

PIPP2	7.662593644	6.843682716	6.59136809	5.41117923	6.55053722	7.495212058	5.428299114	5.778310423	6.719427961	6.348761776	6.361424281	6.036352946	7.332071797	8.011288863	7.407738473	6.767193913	6.743280355	7.91168125
6.907597515	7.630795975	7.374451617	7.834613942	7.045943219	7.1826377	6.865024803	6.27821262	6.99002384	6.788341402	6.920996618	6.556926045	6.674823262	6.749623956	6.576659903	6.454961796	6.562348416	6.58027822	6.556963558
GD27	6.967962167	6.334456161	6.179192025	6.439485427	6.358442879	6.695959515	6.608352778	7.093315862	6.763343156	7.2141238	6.515059005	6.457548509	6.260431881	7.15039959	7.110729932	6.487761491	7.107203728	
EPOR	6.871091934	5.951519752	7.673024265	7.589546099	6.837168831	6.714914939	6.670117326	6.631277954	6.503810592	6.713190639	6.614947205	6.697305283	6.746788019	7.586439743	7.586439743	6.744056383	6.906371355	6.602634111
DCR6	6.965115449	6.485119496	6.670925508	6.751259226	6.751259226	6.751259226	6.751259226	6.751259226	6.751259226	6.751259226	6.751259226	6.751259226	6.751259226	6.751259226	6.751259226	6.751259226	6.751259226	6.751259226
UBOK5	7.549792347	6.715246216	6.715246216	6.715246216	6.715246216	6.715246216	6.715246216	6.715246216	6.715246216	6.715246216	6.715246216	6.715246216	6.715246216	6.715246216	6.715246216	6.715246216	6.715246216	6.715246216
RADS1B	6.272200922	6.674474015	6.506600253	5.587196741	6.914075414	6.719865222	7.141985382	6.276152065	6.640012536	6.67640315	6.709806060	6.738093966	6.840099911	7.038568757	6.477283267	6.898786541	7.000321520	6.683026206
MSK1	7.225092368	6.712203974	6.712203974	6.712203974	6.712203974	6.712203974	6.712203974	6.712203974	6.712203974	6.712203974	6.712203974	6.712203974	6.712203974	6.712203974	6.712203974	6.712203974	6.712203974	6.712203974
EFCAB7	5.498787671	7.562726493	6.852771925	7.201160478	6.386684918	7.062704077	6.051329585	6.299784271	6.593714259	6.620566697	7.049349576	6.408252529	7.57951416	7.143734143	6.67184388	6.740878357	7.095761067	6.713923460
SLC8A1	7.595836754	7.818312618	6.738495293	6.850580652	5.408400912	6.759502433	5.820895923	7.123357111	6.480597523	7.118316511	6.605236867	7.049349576	6.408252529	7.57951416	7.143734143	6.67184388	6.740878357	7.095761067
SMUFR1	5.644166844	5.413322383	6.738495293	6.850580652	5.408400912	6.759502433	5.820895923	7.123357111	6.480597523	7.118316511	6.605236867	7.049349576	6.408252529	7.57951416	7.143734143	6.67184388	6.740878357	7.095761067
ZNF708	6.723495947	7.162925947	6.160465687	6.759502433	5.408400912	6.759502433	5.820895923	7.123357111	6.480597523	7.118316511	6.605236867	7.049349576	6.408252529	7.57951416	7.143734143	6.67184388	6.740878357	7.095761067
HEXW2	7.171659503	5.629321417	6.923265137	6.368511734	6.541284784	6.72158276	6.827237071	6.753787493	6.68610441	6.99696392	6.52322531	6.731968095	6.731968095	6.53938547	6.68024518	6.649057068		
POLA2	6.496398402	6.580937643	6.966538969	5.68524071	6.136106322	6.21208366	6.80651136	6.890216342	7.071104791	6.748947013	6.393575477	7.214380021	5.75931401	5.576116272	6.757443386	6.697839508	6.912714925	6.18025288
EFCAB2	6.52914792	6.03200983	6.2256791	6.78601151	6.748356487	6.943347375	6.83156653	6.873522766	6.83156653	6.873522766	6.873522766	6.873522766	6.873522766	6.873522766	6.873522766	6.873522766	6.873522766	6.873522766
AMACR	5.800403575	7.132091395	7.971297703	6.627809758	7.134345815	5.895009084	6.664227383	6.780531153	6.942846256	6.391807254	7.004829922	6.310895995	5.487432102	7.292414444	7.054264447	6.711239856	6.186018394	7.101925884
NFATC1	7.202352939	6.829898059	6.921264368	6.921264368	6.921264368	6.921264368	6.921264368	6.921264368	6.921264368	6.921264368	6.921264368	6.921264368	6.921264368	6.921264368	6.921264368	6.921264368	6.921264368	6.921264368
TRMT61A	6.686043616	7.78525816	6.678058546	7.091449096	6.72981077	6.610911972	6.57416122	6.629790548	6.815738716	6.652359796	6.66419246	6.816819912	7.381859055	7.371752235	6.804677827	6.713240454	6.679165988	6.934052503
ZNF776	7.002038917	6.791913964	6.408384299	6.493037553	6.727756895	6.500390076	6.175488101	6.927049208	6.726686396	6.954295296	6.915192195	5.984234775	6.798779478	6.650712303	6.555419348	6.454902467	6.579525513	6.700146737
ZNF407	6.973892462	7.477887125	5.993000256	5.671586333	5.85415444	5.671586333	5.85415444	6.798138282	7.034195466	6.804637555	6.786626238	6.43698377	6.757709854	6.42647467	6.958499601	6.691190743	6.749065054	6.52081893
CEP19	7.157398062	6.735946173	7.003789346	6.115396108	6.015548123	6.54787204	6.930800205	6.93192868	6.93192868	6.93192868	6.93192868	6.93192868	6.93192868	6.93192868	6.93192868	6.93192868	6.93192868	6.93192868
6.685095658	7.000095254	6.629519108	6.200897138	6.027316123	7.356474847	6.52898444	6.550082282	6.130233093	6.41486326	7.242334514	6.531775404	7.480552403	6.755268661	6.771594555	7.144522076	6.595438821		
MTHFD1L	6.469195468	7.322036545	7.380792772	6.626356653	7.125181918	6.626356653	7.125181918	6.877223148	6.659965314	6.89049684	6.622311598	6.882242905	6.705913768	5.73106943	6.60166352	6.921781871	7.101057281	6.638248589
FYN	6.712052858	6.689873893	6.795188169	6.710765642	6.471206576	5.730910554	6.60038671	6.956773118	5.379396047	6.352466154	5.392717141	6.841187754	6.726530845	5.94836054	6.766595946	6.514006798		
SNRNP48	6.733116658	7.33316658	5.564070154	6.281427168	6.281427168	6.281427168	6.281427168	6.281427168	6.281427168	6.281427168	6.281427168	6.281427168	6.281427168	6.281427168	6.281427168	6.281427168	6.281427168	6.281427168
CNNB1P1	6.981595053	6.76047417	6.715119713	7.121991379	6.993146997	6.84238822	6.13202772	6.55094271	6.57422699	5.900288877	7.090291286	6.077861292	6.631521279	6.763391836	6.679393186	6.652631956		
HDAC4	5.794977262	6.154254682	7.184257257	6.475546542	7.145381950	5.811749083	6.660247949	6.711701514	6.711701514	6.711701514	6.711701514	6.711701514	6.711701514	6.711701514	6.711701514	6.711701514	6.711701514	6.711701514
ZNF750	6.22077281	6.485119496	6.485119496	6.485119496	6.485119496	6.485119496	6.485119496	6.485119496	6.485119496	6.485119496	6.485119496	6.485119496	6.485119496	6.485119496	6.485119496	6.485119496	6.485119496	6.485119496
PARP15	6.643017185	5.51655478	6.556515112	7.495612677	7.495612677	7.495612677	7.495612677	7.495612677	7.495612677	7.495612677	7.495612677	7.495612677	7.495612677	7.495612677	7.495612677	7.495612677	7.495612677	7.495612677
CDC18	5.932234015	7.01506274	6.654385766	6.538146191	7.075682571	5.783115308	6.452717447	6.982906527	6.325168322	6.63062533	6.68066671	7.252532405	6.149206845	7.136142858	6.765839232	6.602136237	6.752247674	6.82964731
CYB2R1	7.276138854	6.964167836	6.964167836	6.964167836	6.964167836	6.964167836	6.964167836	6.964167836	6.964167836	6.964167836	6.964167836	6.964167836	6.964167836	6.964167836	6.964167836	6.964167836	6.964167836	6.964167836
FAM109B	6.675189224	6.564224338	6.761006188	6.928100737	6.255794754	6.580271552	6.978301333	6.761362547	6.335095006	6.604981265	6.913948828	7.109121747	6.88944434	7.42344231	6.552529415	6.973171294	7.164762444	6.826762244
MECR	6.524371825	7.189414081	7.059694318	6.742660981	7.017578862	6.454997983	6.825682237	6.418675169	6.315890056	6.214076145	7.292662843	5.69823763	6.677284973	6.824176413	6.753800862	6.405635145		
TRAF4	6.632825153	6.745858863	6.684425229	6.188157117	6.124381418	7.316214423	6.896165277	6.984962668	6.469940068	6.546618813	7.035210225	6.667197116	7.766650669	7.363615082	6.832040934	6.651121667	6.661160755	7.067350753
ZNF2382	6.44521168	6.58829646	6.720520992	6.671794237	6.954546294	6.798901321	6.93465572	6.703731461	6.88203966	6.511196236	6.610709569	6.59995787	6.710930847	6.534200716	6.508575579	6.634991679	6.592838982	6.592838982
ZSCAN1B	6.468970232	7.127342724	5.824543216	6.221266529	6.382149235	6.129082088	6.328112682	7.090504099	6.328112682	7.090504099	6.328112682	7.090504099	6.328112682	7.090504099	6.328112682	7.090504099	6.328112682	7.090504099
AMN1	6.836854873	6.718509653	5.79375507	6.547275909	6.222887024	6.673989964	6.82781554	6.708079248	6.739220387	6.406020925	6.733079544	6.724082578	6.192978966	7.642579992	6.624105154	6.675953788	6.761289655	6.754819664
MYEF2	5.583801575	7.388016039	5.890343781	6.43576438	6.90487155	5.961834694	7.025446437	6.694402622	6.822559991	6.982735893	6.680961954	5.97870187	7.661858535	5.584119308	6.837799707	7.153860645	6.917681821	7.138388345
LYSMD2	7.674805727	7.494727146	7.124066436	7.664263095	7.395893589	7.159674089	5.482735201	6.587869144	6.574182694	6.617393986	6.850778167	6.386148511	6.626245978	5.490140535	6.007066694	6.9233775	5.996710934	6.285332462
Corf56	5.774742359	6.987668235	5.619773836	6.81403795	6.291029548	7.484261428	6.831739277	6.508886255	6.814387316	6.755833392	6.372070868	6.733225992	6.601493862	6.96411389	7.542162137	6.813638436		
CKB	6.712384053	6.65142952	6.68182556	6.092760099	7.391174134	6.945647333	6.784792334	6.546096288	6.546618813	7.035210225	6.667197116	7.766650669	7.363615082	6.832040934	6.651121667	6.661160755	7.067350753	7.067350753
ZNF578	7.732952263	6.461656621	6.199439888	6.380131413	6.584925494	6.449640458	6.589304438	6.885206063	6.584793728	6.727422969	6.710745768	6.935479717	6.910414623	6.253806042	7.240688319	6.934360252	6.690	

LUNC00116	6.683349901	7.112184135	6.974107423	6.32936912	6.70658299	7.341907257	6.498024351	6.50653687	6.70448664	6.75258916	6.423802593	6.627278639	6.792041798	6.345362001	6.404505023	6.269048459	6.886029902	6.559901961
TWY1B	7.123461213	6.793208972	5.926812959	6.793784621	7.11497375	6.744008833	5.939690993	6.534120662	6.978820986	7.064562336	6.355309362	6.193957385	6.956008454	6.832755182	6.445079039	6.607896419	6.779848658	6.151671017
DAGLB	7.344407727	7.099772747	7.02451916	6.311027562	6.182136958	7.306136205	5.864738198	6.788408576	6.34988044	6.724243353	6.660974538	6.887044428	5.919996168	5.739691608	6.627973253	6.389388523	6.627872519	7.188732513
FEM1A	6.546593927	6.673463904	6.678546041	6.376150634	6.467072392	6.082335381	6.836240138	6.987430555	6.516688435	6.81047855	6.539491878	6.728087418	6.557405267	6.839225648	6.897952981	6.660081411	6.820782421	6.717447679
PEWACH	6.719667713	6.580174876	6.890714396	6.380714396	6.875112096	6.893330027	6.554771896	6.599966431	6.330446727	6.830466777	6.806163373	5.943509022	7.398328988	6.300249129	6.518739079	6.800759870	6.111139579	6.133139864
MESD1	6.174616748	6.662575438	6.661834395	6.662575438	6.661834395	6.662575438	6.661834395	6.662575438	6.661834395	6.662575438	6.661834395	6.662575438	6.661834395	6.662575438	6.661834395	6.662575438	6.661834395	6.662575438
RNF12L	6.664862832	6.811780253	5.973486658	6.011466509	6.867730509	6.880190085	6.426577458	7.002004262	6.898257584	7.02027461	6.730079163	6.505792537	5.952023793	6.412151357	6.800800516	6.68268369	7.168680514	6.293613774
DCR2	6.640514246	6.548491113	5.934845948	6.602282151	5.954387644	6.777014495	6.885117309	6.697680232	6.335838018	6.763130949	6.624400778	6.494662824	7.435255824	6.494825636	6.743957884	6.731099836	6.852396458	6.241418724
TA1B	6.551543872	6.107898058	6.605786465	7.149323031	6.926828075	6.464905277	6.727459788	6.916971745	6.48325947	6.633791644	6.322719517	6.189807605	7.256025889	6.826785956	7.280128653	6.707973936	7.00077826	7.084463375
MTRF1	6.528094812	5.528928743	7.407656042	6.413742117	6.716402045	6.869637502	7.333212624	6.454940467	6.266048561	6.624014855	6.313547201	6.716902351	8.116459144	6.095457827	6.591491458	6.783064349	7.77927686	6.917591549
FAM59A	6.973850907	7.407656042	6.673154844	6.642799328	6.389815007	7.034295754	7.20838941	6.421045282	6.710425321	6.9459299	7.059436857	5.544472612	8.588805239	5.444472612	6.520081876	6.599094095	7.402571256	6.027511256
CS5A	6.653913796	6.676205605	6.676205605	6.676205605	6.676205605	6.676205605	6.676205605	6.676205605	6.676205605	6.676205605	6.676205605	6.676205605	6.676205605	6.676205605	6.676205605	6.676205605	6.676205605	6.676205605
SCN1	6.631317347	7.197201538	6.202191763	5.917861897	7.323114396	6.146749355	6.704555229	7.302405467	7.259784286	6.104849607	6.598865106	6.042190419	6.845970086	7.317933704	6.94491275	6.49621589		
HF2	6.46774176	5.444931566	6.441733461	6.944413394	5.586358905	5.784737266	7.18549732	6.593314263	6.741017002	6.969104771	7.117006409	6.719082256	2.89076263	6.039523115	7.80236739	6.927656597	6.554343051	6.807945744
MYH11	6.535007689	6.448148786	6.660487407	6.432283913	6.551874993	6.594184813	6.672849259	6.710464276	6.651468563	6.963432706	6.714510643	6.605356126	6.707576434	6.453363144	6.020483014	6.787890140	6.795544304	6.590451926
EXD3	7.737711018	7.101704817	6.574914257	6.994866049	6.184611132	6.816516426	5.700548317	6.502707025	6.293919134	6.904772288	6.382060022	7.275583266	7.549989789	6.378121319	6.717266417	6.933205224	7.194206555	6.614396738
OCLN	7.330361394	7.966543268	5.807303275	6.249370189	5.879045064	6.468456296	5.756645702	6.716301694	6.54728294	5.97985644	6.488452947	5.787705981	5.78838372	7.775325356	7.294168899	7.30001387	5.858933567	
CCNE1	7.334697784	5.601699301	5.5273149	6.717967069	6.960476371	6.438932176	7.126971927	6.992724614	6.624788666	7.034891492	6.182240476	6.686026697	7.730898228	5.385398512	7.454136639	6.019501484	6.64175297	5.340436391
IFB2PBL	7.128630622	6.356246869	6.892522086	6.355782729	6.578612605	6.579965352	6.579965352	6.579965352	6.579965352	6.579965352	6.579965352	6.579965352	6.579965352	6.579965352	6.579965352	6.579965352	6.579965352	6.579965352
PK3A1	5.127740216	5.460097069	7.680579966	6.51741117	6.794452999	5.13064866	5.279243282	6.699462504	7.458972079	6.870599806	6.870599806	6.870599806	6.870599806	6.870599806	6.870599806	6.870599806	6.870599806	6.870599806
CHURC1-FN1	6.890759976	6.141805279	6.860565316	6.148902016	6.346534212	7.117890589	6.303660383	6.936366347	6.836079373	6.435713877								
SOR42E1	6.500770945	5.274355238	5.300070501	6.348454816	5.687330159	5.295226452	6.806842896	6.826049704	6.344541788	5.967515171	7.802343173	5.27097867	5.291654456	6.759019068	6.769383646	7.048852475	6.716912077	6.1561007
TGD1	6.141305402	7.308791308	6.174457156	6.761179264	6.364132638	6.10562571	6.498019444	7.473394996	6.211382875	7.396905056	6.794504448	6.279472244	6.121736533	6.54941592	7.197966387	7.319275426	7.513624789	7.180702847
RIMKLB	6.7200427495	5.43522505	6.9677822	6.170216136	5.429690966	6.701014625	6.193162636	6.594448183	6.675103545	6.594448183	6.675103545	6.595380226	7.805989015	7.223737911	6.710177864	6.835417003	6.531895821	6.634791732
ZNF708	6.038582229	7.212886474	6.612036128	6.632580855	6.292951676	6.493693897	7.243703555	6.550769952	6.33262086	6.512998558	7.68103098	6.642167612	7.525643357	6.41177983	6.88657234	6.093344557	6.67725976	
KNP2	7.399180669	7.271660299	6.647030958	6.617084937	6.661597437	7.466314406	5.542961126	6.349165299	6.374266246	6.374266246	6.485935612	6.560093974	6.580273574	6.968716871	7.190203382	6.738929894	6.31922241	6.634152426
CoorT03	6.400386962	7.051902663	6.66408814	7.369211037	6.945607938	6.755959031	6.510760747	6.629597956	6.905281321	6.670272484	6.276155528	6.879979622	6.608663582	5.642082082	6.451856926	6.444845114	6.71307171	6.644430113
PK3A1	6.890759976	6.141805279	6.860565316	6.148902016	6.346534212	7.117890589	6.303660383	6.936366347	6.836079373	6.435713877								
ZNF22	7.007437614	6.955863638	6.655863638	6.628333399	6.889495569	6.546542011	6.706204367	6.472915766	6.423485738	6.423485738	6.472915766	6.423485738	6.472915766	6.423485738	6.472915766	6.423485738	6.472915766	6.423485738
UBT2D	6.703326221	7.130960014	6.345782219	7.265686415	5.55192344	6.401286378	6.95462707	6.455094012	6.890710374	6.983752033	6.656042398	7.10739541	5.560779626	7.185116028	6.649826119	6.493601617	6.569164521	6.61775952
BDU13	7.233607162	7.496904436	7.16265678	7.496904436	7.16265678	7.233607162	7.496904436	7.16265678	7.233607162	7.496904436	7.16265678	7.233607162	7.496904436	7.16265678	7.233607162	7.496904436	7.16265678	7.233607162
NFC	7.242745618	6.879596588	7.374869264	5.82987824	7.008669679	5.592792741	6.528655724	7.4888078	6.61999949	7.00349285	6.562706762	6.817454455	6.867633323	7.514860313	6.347093226	6.675762825	6.628711234	6.094211164
FKBP7	6.514714612	7.147252435	6.671258957	6.671258957	6.671258957	6.671258957	6.671258957	6.671258957	6.671258957	6.671258957	6.671258957	6.671258957	6.671258957	6.671258957	6.671258957	6.671258957	6.671258957	6.671258957
UPP2D	6.05144335	5.826262979	6.503982338	7.019601543	7.033781432	6.648680508	6.055452465	6.81270893	6.670188226	6.954946078	6.92011188	6.325483021	5.86357805	6.450474359	7.209303399	7.175669597	6.796468034	6.916571676
PK3A1	6.890759976	6.141805279	6.860565316	6.148902016	6.346534212	7.117890589	6.303660383	6.936366347	6.836079373	6.435713877								
HST1H1E	6.604914937	6.487174055	5.980291777	6.201283223	6.60551368	6.19676078	6.5186078	6.378458388	6.77205044	6.670568873	6.77205044	6.670568873	6.77205044	6.670568873	6.77205044	6.670568873	6.77205044	6.670568873
ATAT1	6.819208901	6.542096548	6.613326189	6.542096548	6.613326189	6.542096548	6.613326189	6.542096548	6.613326189	6.542096548	6.613326189	6.542096548	6.613326189	6.542096548	6.613326189	6.542096548	6.613326189	6.542096548
CCDC12	6.66099817	7.556718362	6.62099817	7.02557368	8.657804033	6.550277492	6.728702324	6.704176188	6.945224571	6.75886246	6.639282836	6.167879499	5.84214809	5.824369449	6.509927812	6.909342766	7.670257907	6.146705077
FUNDC1	6.578006249	6.753918435	7.444140956	7.145244136	7.175988844	6.888167136	6.50306913	6.21857327	6.697500757	6.63289444	6.683613924	7.345609021	6.659683971	6.448950522	6.150205164	6.190418756	6.26223232	6.52185694
GLU1	7.396132503	6.634825753	6.65427541	6.634825753	6.65427541	6.634825753	6.65427541	6.634825753	6.65427541	6.634825753	6.65427541	6.634825753	6.65427541	6.634825753	6.65427541	6.634825753	6.65427541	6.634825753
FKBL16	6.578608687	7.490938382	6.655427541	6.348211577	6.537423059	6.704763192	6.739217298	6.522099605	6.889857843	6.635567327	6.493051061	6.7135927	6.848202788	7.709505967	6.636121901	6.611346379	6.905962671	6.109149144
NDFU3A	6.553312023	6.682160828	6.72956496	6.389515169	6.389515169	6.389515169	6.389515169	6.389515169	6.389515169	6.389515169	6.389515169	6.389515169	6.389515169	6.389515169	6.389515169	6.389515169	6.389515169	6.389515169
PK3A1	6.890759976	6.141805279	6.860565316	6.148902016	6.346534212	7.117890589	6.3											

COLGALT1	6.225683966	6.586779631	6.408230467	6.395564108	6.599942192	6.399920975	7.18967315	7.295998111	6.754018335	6.766523401	7.021219698	6.516459322	6.03209468	6.598915394	6.810663093	6.78522717	6.723213211	6.62710796
LARC7A	6.819906465	6.526164785	6.29309459	6.773704399	7.148025476	6.288329567	6.393950131	6.598902649	6.242027516	6.39802983	6.784529117	6.714276745	6.746451995	6.61823158	6.438993984	6.462576347	6.629762988	6.607556164
SEFD1B	6.930205397	6.830841223		6.44547014	6.140235076	7.305523168	6.068358814	6.689084783	6.587892224	6.354583881	6.617108596	6.940120076	7.102262708	7.2052126	6.658211554	6.576503319	6.595993545	6.528488984
HST24AA	6.642647216	6.714161471	6.637945971	5.820236559	5.932862541	6.701052055	7.186261176	6.684538941	6.719790906	6.667082101	6.697572397	6.821844728	6.002683057	6.756048957	6.565031545	6.55859819	7.324944397	6.664701905
COLGAL9	6.461173254	6.090117766	6.090117766	6.090117766	6.090117766	6.090117766	6.090117766	6.090117766	6.090117766	6.090117766	6.090117766	6.090117766	6.090117766	6.090117766	6.090117766	6.090117766	6.090117766	6.090117766
THPP	6.568357865	6.572313934	6.45167285	6.371378002	6.57171696	6.57171696	6.57171696	6.57171696	6.57171696	6.57171696	6.57171696	6.57171696	6.57171696	6.57171696	6.57171696	6.57171696	6.57171696	6.57171696
PTG51	5.383170537	5.374983153	7.01667927	5.355816139	6.724650471	5.579832566	6.572468236	6.554797701	7.07288643	7.421035991	6.455591848	6.730205062	6.632335397	6.205231621	6.399232815	6.536575208	6.953249317	6.675414848
IF722	6.795170128	6.839971122	6.596506833	5.965002162	6.259759944	6.839460072	6.952903963	6.58699646	6.616648359	6.542627814	6.416548624	6.687818641	6.587527698	6.092654262	6.488515862	6.59989563	6.43372320	6.465480903
RRAGB	6.176231386	7.214838461	6.414218866	6.003722449	7.07687904	6.2527698	5.430096995	6.776118433	6.627598344	6.510947128	6.536471649	5.42719426	6.74429259	5.43724174	7.376507637	6.667091599	6.904972668	6.454575758
CASB	6.583233083	6.838483846		6.032412555	6.068206681	6.777646404	6.921226614	6.701073364	6.54880886	6.618703386	6.533146973	7.56890379	6.562511486	6.72434233	6.820888479	7.063156086	6.259486664	7.15541927
PP3P91	6.733771388	6.361963117	6.733771388	6.26667139	6.352198084	6.589428116	6.911170642	7.084491213	6.827923497	6.81202695	6.771549123	8.099991044	6.561656594	6.324084006	6.672831134	6.470193778	6.627494605	
NLRK1	7.42745185	6.45769534	6.02574157	5.744991945	6.880119743	6.371931748	7.081642908	6.578169213	6.425042008	6.650172794	6.620808574	6.687582822	6.846278529	5.502833081	6.650761269	6.293989866	6.446929844	7.051137755
BRF2	6.744585861	7.551392813	6.59303175	6.857777281	6.564551305	7.2052928	6.527374115	6.282943428	6.629404025	6.488358355	5.564508745	6.205540514	6.604420424	6.531135985	6.453903848	6.866240384		
WDRA	6.719084073	6.881601376	7.147121831	7.465554573	7.130378865	5.796283516	7.380047591	6.411470403	6.540156012	6.560173592	6.154817882	6.885430044	6.202193087	6.451695757	6.921542786	6.346893973	6.506290292	6.637167151
OTUDB8	6.68348258	6.763878833	6.781460941	6.781460941	6.781460941	6.781460941	6.781460941	6.781460941	6.781460941	6.781460941	6.781460941	6.781460941	6.781460941	6.781460941	6.781460941	6.781460941	6.781460941	6.781460941
GPALP11	6.35892990	7.10895103	6.58007801	6.153030513	6.186772334	6.239761272	6.428148019	7.021702018	6.066857284	6.650385274	6.759176366	6.189363748	6.459252523	6.504635783	7.15105921	6.934058735	6.90918485	7.407903945
CPED1	6.620642642	6.876652453	5.675191541	6.383888426	5.469591136	5.387010995	6.99289094	7.212378751	6.73515698	6.743856245	5.426168804	6.242238982	6.566373057	6.663997844	6.660729214	6.570145452	6.33170418	
SU1	7.117403141	6.294723482	6.091052028	6.296144226	6.776123795	7.198948494	6.641652687	6.580539444	6.901661945	6.488089923	6.574559637	6.306181564	6.885152622	6.850363658	6.667969664	6.301159864	6.609898473	6.584295407
Chor3f	6.741404744	6.639174528	7.098664366	6.798664366	6.798664366	6.798664366	6.798664366	6.798664366	6.798664366	6.798664366	6.798664366	6.798664366	6.798664366	6.798664366	6.798664366	6.798664366	6.798664366	6.798664366
SPB2	6.38516508	7.028738971	6.71638466	6.19657486	6.688527591	5.996448333	6.714270876	6.77826015	6.364562504	6.939088117	6.499781909	6.477336168	7.266998163	6.441503321	6.709962252	6.141786548	7.156450084	6.686845889
PE76	6.449178809	6.604356801	6.678394476	6.480294283	6.841796378	6.841796378	6.841796378	6.841796378	6.841796378	6.841796378	6.841796378	6.841796378	6.841796378	6.841796378	6.841796378	6.841796378	6.841796378	6.841796378
STX6	6.457117396	6.369561532	5.639490288	5.57831395	5.566125517	5.872726235	6.696487	6.609614264	6.77432064	6.609614264	6.609614264	6.609614264	6.609614264	6.609614264	6.609614264	6.609614264	6.609614264	6.609614264
ADPRH	7.609936579	6.422780548	5.244267089	5.202512054	7.058382804	5.294350065	5.252599828	6.59911328	6.626352178	6.82141493	6.764476709	5.805262521	7.283776279	5.260254681	6.699058356	7.049192028	6.304211012	6.298881662
BLM	6.841036171	7.435851839	7.054609518	5.40120297	6.945603694	6.89403488	5.71515863	6.825788053	5.895312726	5.501734498	6.047033617	7.304603961	6.61105451	6.83027792	6.773259501	6.61105451	6.83027792	6.773259501
CRX04	6.878970024	6.734352843	6.916545585	6.59104129	6.515102666	6.505791728	6.363517302	6.591082705	6.55758891	6.711308571	6.511168166	6.424175309	6.657941753	6.686849104	6.507907028	6.829954161	6.808713558	6.73783882
FEPA1	6.205120329	7.573268008	5.438153076	6.29799681	7.09678163	6.463011311	5.444966012	6.925959041	6.768759534	6.805605807	6.268710098	6.624781344	6.578903533	7.183051732	6.566247972	6.725392056	6.818625538	6.6142201
VVAW7	6.914072056	7.33307739	5.970930034	7.073621139	6.442286513	7.019315789	6.726752628	6.545228816	6.420506907	6.713781352	6.489297389	6.974190384	5.778860596	5.858999544	6.638484518	6.709974309	6.538440064	6.564969894
TK10	6.437595001	6.73977734	6.359630011	6.73977734	6.359630011	6.73977734	6.359630011	6.73977734	6.359630011	6.73977734	6.359630011	6.73977734	6.359630011	6.73977734	6.359630011	6.73977734	6.359630011	6.73977734
PHAP1	5.414780519	5.577474584	5.336016121	5.326783918	5.540077097	7.054615966	6.725200883	6.632528816	6.735225913	6.321441761	6.979562318	7.800206241	6.785538482	6.644034382	6.438476318	6.510976719	6.66576833	
MALPIC3B2	6.750225731	6.672894716	6.387248703	6.396809713	6.681568374	6.6959736	6.712284472	6.442218186	6.792118017	6.335370873	6.526549848	6.410584008	6.784164144	6.566242785	6.55436168	6.699301192	6.042739312	6.61182141
DBR1	6.96547022	6.672470543	6.672470543	6.672470543	6.672470543	6.672470543	6.672470543	6.672470543	6.672470543	6.672470543	6.672470543	6.672470543	6.672470543	6.672470543	6.672470543	6.672470543	6.672470543	6.672470543
FAM219A	6.577840074	6.875774256	6.548737256	6.370421242	6.166804972	6.728072917	6.031769203	6.680726714	6.640690905	6.679062589	6.65172706	6.401957201	6.877480842	6.661217598	6.597269094	6.566738616	6.626148657	6.319028054
MKL2	6.98393890	5.925315534	6.05279616	6.07291622	6.679614722	6.068845467	6.163858458	6.5885454	6.5885454	6.5885454	6.5885454	6.5885454	6.5885454	6.5885454	6.5885454	6.5885454	6.5885454	6.5885454
HOMZ6	5.894532973	6.649187718	5.586556484	6.768066941	6.272341761	7.134303563	7.103599622	6.367476024	6.711891289	6.481303314	6.316173748	7.00570653	7.31229125	6.857106292	6.207775416	6.387827973	6.3193083	6.956577694
FRP9	7.24079229	5.975051816	5.875051816	6.805779445	7.114802973	6.114802973	5.925256549	6.539799184	6.471273758	6.52572649	6.52572649	6.52572649	6.52572649	6.52572649	6.52572649	6.52572649	6.52572649	6.52572649
SBF2	6.208765237	6.157190202	5.13580483	5.62043574	6.063867343	6.654990929	6.705862927	6.1364709327	6.653862927	6.1364709327	6.1364709327	6.1364709327	6.1364709327	6.1364709327	6.1364709327	6.1364709327	6.1364709327	6.1364709327
IGF8B6	6.654083014	6.2340533	6.658265675	6.842599229	6.697108553	6.60729658	6.070380954	6.527725048	6.587896147	6.534904272	6.572952462	6.988777204	6.274695897	7.194004012	6.881098425	6.29840429	6.201515121	6.439616057
MSFB4	6.655221972	5.837114498	6.305674836	6.572391221	6.61500232	5.742925309	6.716574785	6.737495102	6.833888703	6.992073808	6.752065613	6.541399288	7.020358184	5.971537679	6.206269874	6.465366749	6.918500695	6.60350966
TJP3	6.679373854	5.444207335	6.598727467	7.029815542	5.436354472	6.53808009	6.483795918	6.314558106	6.873962739	6.537236319	6.261800844	6.809858491	7.040147659	7.99149581	6.932481856	6.134224789	5.554460713	7.5854881
SAYS01D	6.612741052	6.191919555	6.58989807	6.632226819	6.457952722	6.786227311	6.932521204	6.648821452	6.540138054	6.650850852	6.648821452	6.650850852	6.650850852	6.650850852	6.650850852	6.650850852	6.650850852	6.650850852
ZCHC3	7.063474836	6.651151683	6.317486034	6.611489808	6.561351603	6.399653373	6.590239529	7.057104429	6.671013164	6.477977166	6.384422198	6.232044251	5.876432077	6.646235077	6.603765038	6.650209334	6.460228523	6.388956573
GRPC5C	6.675334004	6.754797562	5.452635715	7.194948005	6.725392581	6.894056281	6.15434243	6.501226664	6.729003156	6.678225629	6.678225629	6.678225629	6.678225629					

RAP1GAP2	5.71417859	5.41441768	6.416214238	6.803758826	5.410216431	6.088648227	7.365699701	6.904148372	6.484063474	6.548713797	6.617356144	6.535884738	8.575822307	6.915298968	6.59344104	6.470549729	6.460057568	6.338878563
CAF	6.175155146	5.725609963	7.123792191	7.152669178	5.622545471	5.558906609	7.229704658	6.386175851	6.437001032	6.755378118	8.862034367	6.720853759	6.643280635	6.745063325	6.692447636	5.732973489		
CEP162	6.821180093	5.709081315	6.198417609	7.541877776	5.875150521	5.432122742	6.873102497	6.270104189	6.595203247	6.582679865	6.420450821	6.620476176	6.102325065	6.24011336	6.706356021	6.161852792	6.554957539	6.178808104
UVELD	6.036959884	5.784447618	5.501118511	6.6688104	6.993299815	6.523879048	6.777509749	6.605808814	6.503784949	6.790715407	6.5527954	5.607236471	5.83983767	6.201262509	6.369961076	6.445912117	6.662259174	5.821637772
LVGCG	6.804918977	7.116091496	6.685558603	6.520258113	6.70878224	6.512794174	6.527794174	6.527794174	6.512794174	6.450032477	6.713009113	6.5644779947	6.483151726	6.704389184	6.564779987	6.483151726	6.302790569	6.34047908
PECR	5.627063686	5.627063686	5.627063686	5.627063686	5.627063686	5.627063686	5.627063686	5.627063686	5.627063686	5.627063686	5.627063686	5.627063686	5.627063686	5.627063686	5.627063686	5.627063686	5.627063686	5.627063686
NDOR1	5.927923742	5.432603787	5.590010596	6.456102139	6.182604584	6.670974405	6.571270862	6.301629948	6.392359628	6.740625516	6.487786038	6.764850223	6.373053118	5.442326782	6.817629667	6.791915332	6.511682779	6.504882104
CSF2	5.403521136	7.848441123	6.67824517	6.67824517	6.67824517	6.67824517	6.67824517	6.67824517	6.67824517	6.67824517	6.67824517	6.67824517	6.67824517	6.67824517	6.67824517	6.67824517	6.67824517	6.67824517
MPEP	6.970653106	6.104366343	5.376742564	5.448315967	7.138663345	7.085938487	6.668704675	6.402087145	6.513280479	6.246380777	6.591891915	6.478868631	5.946096222	7.268821578	5.915213704	6.256048097	6.464225079	7.120630933
HSPAL01	5.666286418	6.387905737	5.934337518	5.940236642	5.940236642	5.940236642	5.940236642	5.940236642	5.940236642	5.940236642	5.940236642	5.940236642	5.940236642	5.940236642	5.940236642	5.940236642	5.940236642	5.940236642
Mar-02	7.238028676	7.155924867	7.238028676	7.238028676	7.238028676	7.238028676	7.238028676	7.238028676	7.238028676	7.238028676	7.238028676	7.238028676	7.238028676	7.238028676	7.238028676	7.238028676	7.238028676	7.238028676
SK36	5.11135051	5.899204611	5.576686899	5.531574865	5.988898913	5.524804797	7.227120202	7.468914382	6.40091934	6.204276772	7.292099965	6.802648885	7.456196032	5.527500649	5.688629995	7.149361891	6.735480946	7.611434582
PP1A3	6.811077616	6.387905737	6.387905737	6.387905737	6.387905737	6.387905737	6.387905737	6.387905737	6.387905737	6.387905737	6.387905737	6.387905737	6.387905737	6.387905737	6.387905737	6.387905737	6.387905737	6.387905737
ABCC5	7.143970837	6.756095658	5.207647582	6.738956856	5.209303562	6.877488573	5.214331137	6.628096084	6.53915348	6.712501196	6.91899102	5.210610929	5.210802286	5.847196445	6.959737545	6.461575879	6.443351543	6.670528584
CD8	6.02512166	7.122353163	6.04947221	6.937688885	6.893172529	6.75068924	6.791520666	6.75068924	6.791520666	6.75068924	6.791520666	6.75068924	6.791520666	6.75068924	6.791520666	6.75068924	6.791520666	6.75068924
PER2	6.124684839	6.737183211	7.112511279	5.830745964	5.608097567	5.576071617	5.695640412	7.147740151	6.416584541	6.143320729	6.749975309	6.694261021	6.080426959	6.116203896	6.653171373	6.786762217	6.474844337	7.14177317
WARS2	5.837188517	5.897488167	7.297438282	5.894881867	5.596268827	5.586475799	7.347813217	6.320911858	6.973470361	6.47265061	6.40003623	5.393426384	7.03423933	6.302987794	6.317933279	6.603052156	6.488609894	6.542156651
MROH8	6.474997128	6.338516648	5.965340929	5.965340929	5.965340929	5.965340929	5.965340929	5.965340929	5.965340929	5.965340929	5.965340929	5.965340929	5.965340929	5.965340929	5.965340929	5.965340929	5.965340929	5.965340929
YEA101	5.522717376	7.137748931	6.728590974	6.68348016	7.03534671	6.258212603	6.342533663	6.601997991	6.470149098	6.434963589	6.644954164	6.613241725	6.383572082	6.198288196	6.636900041	6.456551606	6.477803464	
PXN1A1	6.014862931	5.843649331	5.378001422	6.477250443	5.557984701	6.957261952	5.700899825	6.795777712	6.784368613	6.42638613	6.475267077	6.577384453	5.589155783	6.154565753	6.580870457	6.536059472	6.614957407	6.485241864
TMEM15B	6.937613099	6.459868096	6.273417828	6.705650709	6.273417828	6.273417828	6.273417828	6.273417828	6.273417828	6.273417828	6.273417828	6.273417828	6.273417828	6.273417828	6.273417828	6.273417828	6.273417828	6.273417828
TBC1D4	6.964103609	6.546306392	5.829253086	5.829253086	5.829253086	5.829253086	5.829253086	5.829253086	5.829253086	5.829253086	5.829253086	5.829253086	5.829253086	5.829253086	5.829253086	5.829253086	5.829253086	5.829253086
ARNTL2	5.934968239	5.416551372	6.3636563425	5.417295861	6.496073819	5.8263264083	6.126331411	7.397248944	6.906794191	6.453906516	6.897421503	6.477089482	6.668515723	5.46586184	7.076133402	6.852086241	6.25762554	6.699998328
PTGR2	5.674278924	5.674278924	5.674278924	5.674278924	5.674278924	5.674278924	5.674278924	5.674278924	5.674278924	5.674278924	5.674278924	5.674278924	5.674278924	5.674278924	5.674278924	5.674278924	5.674278924	5.674278924
FRY12	6.115260836	7.320923066	6.87790498	6.87790498	6.87790498	6.87790498	6.87790498	6.87790498	6.87790498	6.87790498	6.87790498	6.87790498	6.87790498	6.87790498	6.87790498	6.87790498	6.87790498	6.87790498
ZRANB3	6.429215729	6.864358729	5.739259907	6.720985526	7.392972675	5.990437311	6.825508817	6.337682284	6.385235522	6.337682284	6.385235522	6.422400195	6.807698174	6.929357459	6.352584284	6.372146481	6.953460501	6.580050051
TMED7-TCA	6.821949897	5.645584398	6.520019734	5.686963558	6.133748676	6.115917373	6.166210308	6.890609734	6.609810302	6.21580373	6.569572113	5.8410567	7.295185773	5.669532343	6.67858399	6.399305136	6.71120644	6.848930639
WNL10	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691
NRM	5.373972809	6.495400708	5.684557386	6.844837933	5.546613557	6.418708964	6.697172142	5.374152861	6.393554641	6.289863176	6.55170684	6.924385269	6.963151484	5.329323296	6.515030963	6.32542918	6.722688914	6.595506334
Seq-05	6.341285965	6.465570673	6.395726455	6.708584274	6.446186713	6.749922704	6.685489953	6.398017615	6.860106547	5.18647554	6.445917142	6.656824864	5.530169671	5.861416487	6.541767051	7.042898848	6.447572598	6.019350041
AXIN1	6.727405951	7.131835369	7.015482765	6.727405951	6.496026573	6.488399503	6.188279901	6.384399133	6.482527981	6.263641061	6.384399133	6.482527981	6.263641061	6.319605021	6.635099807	6.275928602	6.617788166	
DNAJC6	5.317691053	6.139096689	7.103275313	6.13909711	6.535999222	5.602104279	6.692771156	7.175967377	6.149371702	7.384167831	6.185596592	5.573157998	7.20156373	6.614820092	6.699941646	6.52299821	6.38439032	
SECTM1	6.765510804	6.332578936	6.487273584	6.450309106	6.740139318	6.564807866	6.568882916	6.054300497	6.43872086	6.43788361	7.05328779	6.565386655	6.608290009	6.217765071	6.456395756	6.284558062	6.788529828	
ZDA	7.182351443	6.836014946	5.406697585	6.700302352	6.497589647	5.871313108	6.057368842	6.515736451	5.862352231	6.171101173	6.161396223	6.540773008	5.409327357	6.931785128	6.199614494	7.091878362	5.953398443	6.217395887
WNL10	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691	6.480135691
NF61	5.681950464	7.473280602	5.737020517	7.44804064	5.737020517	7.44804064	5.737020517	7.44804064	5.737020517	7.44804064	5.737020517	7.44804064	5.737020517	7.44804064	5.737020517	7.44804064	5.737020517	7.44804064
NF568	6.604640236	5.685191754	5.732524687	7.433262291	6.857774363	5.571342274	5.667594867	6.381499341	6.340067008	5.645213065	6.357311908	6.202126253	7.12441668	7.044904993	6.516190222	6.764486049	6.581343605	6.651006979
GSTO2	5.821541967	7.024843707	6.50458301	6.93767494	6.312982285	6.695623985	6.109438873	6.443047823	6.601948873	6.443047823	6.601948873	6.443047823	6.601948873	6.443047823	6.601948873	6.443047823	6.601948873	6.443047823
METTL18	6.687506613	7.415168753	6.900367524	7.545315261	6.46542198	7.950640682	6.212838338	6.505475736	6.185467742	6.20346205	6.431157956	7.385193825	5.461500554	6.56808355	6.316890524	6.005580616	6.295929284	6.211553268
MMD	5.461874876	6.215244491	6.546900101	6.546900101	6.546900101	6.546900101	6.546900101	6.546900101	6.546900101	6.546900101	6.546900101	6.546900101	6.546900101	6.546900101	6.546900101	6.546900101	6.546900101	6.546900101
HUA-G	6.574421474	6.43925282	6.466669926	6.29473665	6.458235679	5.68955023	5.522103347	6.392141879	6.324217269	6.383220468	6.34634005	6.58899874	6.547791239	6.633693576	6.318192766	6.32837076	6.48077506	6.21444896
LPN2	6.420050934	7.04966417	5.41020826	6.420050934	5.41020826	6.420050934	5.41020826	6.420050934	5.41020826	6.420050934</								

COA7	6.38535233	5.505423817	5.565232201	6.35815331	6.30762464	6.890372988	6.431358032	6.699888093	6.750266704	6.551458713	6.310119188	6.519761642	5.567301776	6.800687507	6.891674602	6.215812382	6.195847247	7.097037923
CVBB	6.360833114	5.323796064	5.286785394	6.68315231	5.147287285	5.163698515	6.736035813	7.097737616	6.777176567	6.477222449	6.445412968	5.523699246	5.463208575	5.899891451	7.469775314	6.944383014	6.972362845	5.758947898
GRPEL2	5.562923755	6.488748055	6.372374552	6.64478524	6.039662888	7.265776865	6.8666214071	6.312989009	6.390775567	6.213568122	6.449363606	7.525045014	5.420868213	7.204567892	6.13634971	6.259144135	6.432190792	6.438575416
ETFBM08	5.513096082	7.378680083	5.467246417	5.82073634	5.182073464	7.120930414	6.6661042316	6.1751684602	6.323998072	6.448387376	5.925979144	6.266159856	5.633013311	6.628164191	6.744296198	6.625000128	6.640409358	6.355906183
ZTBM6	5.341130278	6.423179759	6.032490438	6.970772451	5.48532984	6.970772451	5.967344771	6.713328045	6.639768946	6.321368013	6.379819568	5.706511231	5.381287489	6.936808266	5.981287489	6.366490752	6.204181357	6.524030504
TIEMH19	6.027564311	6.092554578	6.991450778	6.280311157	6.235737191	6.490092326	6.466047263	6.043615013	6.340745213	6.381898952	6.275258275	6.277049451	6.437775375	6.412820206	6.492588273	6.364982819	6.384854592	5.968871643
TMCO6	6.527747064	6.488634832	6.568549078	7.284650479	6.401611686	5.572726674	5.837568713	6.398532442	6.423415748	6.342093533	6.27391805	6.446317842	7.097242579	6.552644628	6.394728836	6.305675725	6.213212908	5.6836762
INOBE0	6.344118358	6.429319516	6.375019516	6.629118418	6.422777331	6.613439641	6.398689662	6.422673172	6.401145018	6.426637121	6.27723965	6.65117358	6.171551557	6.959699636	6.322945849	6.446539059	6.707617277	6.341796445
ZNF174	7.075644876	5.891699692	6.95563862	6.192787247	6.32836022	7.103447979	6.363603925	6.333092116	6.503430761	6.417909285	6.287698119	6.835681513	7.034342081	7.0772945	6.246179521	6.381029419	6.285113318	6.433272094
BMT2	7.184982272	6.896123214	6.512900093	6.629750619	6.483019734	6.277489442	6.697919919	7.12778969	6.373888469	6.367654676	6.242014514	6.560376232	7.017035805	6.206925461	5.791846642	6.583802467	6.139093962	6.166674267
PACSN19	5.986493397	6.463501288	6.683018689	6.441009827	5.915029959	6.767713448	7.1894975	6.2927094	6.292440512	6.262852815	6.007252868	6.381214065	8.557572026	6.823132051	6.09480225	6.492103025	5.483145491	6.112688491
CTC116	5.190374836	6.974296436	6.220794608	6.220794608	6.220794608	6.220794608	6.220794608	6.220794608	6.220794608	6.220794608	6.220794608	6.220794608	6.220794608	6.220794608	6.220794608	6.220794608	6.220794608	6.220794608
SDGS	5.75729706	6.908149778	5.89906566	5.789888718	6.162482857	6.177204865	6.028711118	6.879938339	6.732300575	6.540809667	6.97962875	6.039928372	7.038025959	5.981119193	6.60058385	6.417418188	6.650654088	6.3757674
RCAP2B	5.498175213	6.594579877	6.92524627	5.9388572	6.632516549	6.617235005	6.596469347	6.257008079	6.354905433	6.457196055	6.370030059	6.78274806	5.474599973	5.494967046	6.337688363	6.434746820	6.715740684	6.628868354
TMTC2	6.146291632	5.964935601	7.73283842	5.791790618	7.369392725	6.598940413	6.097976864	6.58818847	7.133093715	6.22106732	6.694625463	6.188204818	5.37268001	7.297711723	6.578106966	7.158421493	6.439090392	6.358548153
CCR7	6.469317532	6.466409239	6.466409239	6.466409239	6.466409239	6.466409239	6.466409239	6.466409239	6.466409239	6.466409239	6.466409239	6.466409239	6.466409239	6.466409239	6.466409239	6.466409239	6.466409239	6.466409239
CVBSL	5.55637815	6.58467525	6.082530737	6.689860973	6.4572927876	5.73666187	6.73734798	6.892236973	6.53954171	6.566247425	6.40530886	7.034323475	7.629833166	6.599476141	6.657200203	6.337951440	6.378702605	6.783450035
BNB1	6.11535847	6.378857853	6.32553827	6.378857853	6.29972228	6.402815734	6.263180261	6.764081505	6.510857699	6.261262528	6.50999051	6.05211767	6.09991286	6.612141951	6.452317895	6.334254295	5.666920952	5.94754931
LATS2	6.222912752	6.691219516	5.694201989	5.98626254	6.11145638	5.564079876	6.417638803	6.666076445	6.369746867	5.581961758	6.465740027	6.081987573	6.844818613	6.649120323	6.29048618	6.093933929	6.560212029	5.509262187
ARNT1	5.647515095	7.029616444	6.680681449	6.585805637	6.52136803	6.318489117	6.318489117	6.318489117	6.318489117	6.318489117	6.318489117	6.318489117	6.318489117	6.318489117	6.318489117	6.318489117	6.318489117	6.318489117
DIG3	6.789075525	5.62284745	5.272675325	5.727322521	5.70983702	5.279975917	5.278705056	6.384093585	5.708167141	5.94708368	6.984245962	6.565111514	5.701277762	6.76026823	6.925571694	6.717593352	6.394893583	6.582191737
ZNF559	6.322831504	5.530838452	6.889415427	6.359291984	6.878463552	6.466524433	7.140662712	6.228408554	6.472869921	6.418437211	6.728007306	6.854193832	5.576841449	7.396120988	6.43351116	6.051436248	6.329628454	6.414266527
ATPV1E2	6.335102483	6.326184586	6.901190834	6.383282616	6.452957336	6.401716804	6.829959484	6.492495736	6.601788353	6.462062668	6.810845602	5.717003048	5.789972789	6.44016136	6.934254524	6.44687586	5.872961472	6.464687586
ADAMT18	5.983160173	6.413954022	6.364316929	6.646414692	6.013043782	6.165517493	6.68469368	6.184288708	7.1050883	6.676997916	6.11294893	6.010612856	6.908993809	6.758127435	6.73334514	7.06471917	6.642103951	6.788115843
PLEKHA1	6.976186911	6.149249744	6.580247343	6.409963901	6.36634922	5.939925167	6.581169704	6.720250439	6.24224769	6.604914033	6.729977627	6.93357899	5.922671026	6.568003724	6.256775149	6.578686548	6.471044491	6.578686548
ZNF5128	6.406419826	5.649119826	5.610318259	6.482005444	6.499328808	6.436980564	6.227369645	6.479623866	6.140147805	6.635397239	6.47791885	6.441340976	5.574786369	6.370151895	6.02197307	6.116718254	6.208803546	5.936236624
ZNF5128	6.406419826	5.649119826	5.610318259	6.482005444	6.499328808	6.436980564	6.227369645	6.479623866	6.140147805	6.635397239	6.47791885	6.441340976	5.574786369	6.370151895	6.02197307	6.116718254	6.208803546	5.936236624
PKFB2	7.207624533	6.306619518	6.306619518	6.400897236	7.50918328	5.70918328	5.70918328	5.70918328	5.70918328	5.70918328	5.70918328	5.70918328	5.70918328	5.70918328	5.70918328	5.70918328	5.70918328	5.70918328
ACZQ02.1.1	6.159894141	6.587675355	6.512616515	6.428152967	5.91843671	5.734472027	5.727336276	6.501167253	6.337974171	6.074597314	5.88776265	6.912289191	6.973305173	5.948086451	6.61493892	6.450502541	5.90231988	6.272192298
FTM2	6.065616223	6.326184586	5.922149003	6.454543926	6.327303576	7.217079593	6.137718785	7.013942425	6.824315155	6.69643078	6.434432718	5.95368097	5.949220057	6.571504075	6.722067058	6.83557288	6.705369985	6.209561729
TRAF5	5.819186866	5.704246069	5.704390768	6.644822816	5.987801526	5.746920818	5.732559805	6.864799498	6.389841104	6.560490704	6.36627776	6.501791518	7.435300016	5.890087027	6.291025815	6.901152998	6.746773256	6.684880848
CMPE2	5.299745305	6.804831969	6.400817562	6.746738501	5.721526865	5.173257444	5.271526865	6.391151869	6.432717553	6.518948349	7.24807549	5.296828341	5.46103284	5.992649516	6.15730958	6.146992249	6.704080048	6.704080048
LYL1	6.078737852	6.88332014	6.15312064	6.616859769	7.130906098	6.887427212	6.493453244	6.171419049	6.441604833	6.358193653	6.458451489	6.523638951	5.846891949	5.471829836	6.314333076	6.397608918	6.184419539	5.904458804
ZNF5128	6.406419826	5.649119826	5.610318259	6.482005444	6.499328808	6.436980564	6.227369645	6.479623866	6.140147805	6.635397239	6.47791885	6.441340976	5.574786369	6.370151895	6.02197307	6.116718254	6.208803546	5.936236624
RG510	6.729250543	5.913212135	7.302770703	7.050773122	5.685826263	6.484760741	6.522805014	6.589328071	6.589328071	6.589328071	6.589328071	6.589328071	6.589328071	6.589328071	6.589328071	6.589328071	6.589328071	6.589328071
NIUSA1P	6.683145036	6.132934615	7.323052615	5.18463165	6.478761904	6.603493396	6.313764036	5.904296044	6.233435335	6.304174866	5.384360886	6.973957576	5.353039438	6.847812104	6.714293808	6.440424893	6.454509306	6.625458067
FB2	6.598375456	6.43442765	6.317269696	6.595199632	6.873604962	6.86345888	6.60345888	6.60345888	6.60345888	6.60345888	6.60345888	6.60345888	6.60345888	6.60345888	6.60345888	6.60345888	6.60345888	6.60345888
RTEL1-TNFR1	6.668397021	5.502835833	6.1889895721	6.09249406	6.110646712	6.329576958	6.446689875	6.516291899	6.354666449	6.785769397	6.530987301	6.731940498	6.157905119	6.698911879	6.215967371	6.396119519	6.772457674	6.487123008
KDM8	5.299749094	5.294745727	5.294745727	5.294745727	5.294745727	5.294745727	5.294745727	5.294745727	5.294745727	5.294745727	5.294745727	5.294745727	5.294745727	5.294745727	5.294745727	5.294745727	5.294745727	5.294745727
KNC4	6.263870876	5.394679243	6.494636998	7.399360448	5.403484964	7.467758984	6.288718661	6.768250931	6.938298718	6.601684713	6.48212409	6.42296635	5.78307287	5.898564372	7.173228123	5.957641454	5.92759921	5.885440364
RNF157	7.340952762	5.276827986	5.587581343	5.78991457	5.515727761	5.671763888	5.589103258	6.820502948	6.59571049	6.491177007	6.305212079	6.206007584	7.589341939	6.538234411	6.578587016	6.360656742	6.724930879	5.384170419
DNH5	6.87904884	5.40719355	6.959248835	6.522805014	6.522805014	6.5228050												

PLAZ66	6.9665138	5.556274901	6.549611431	5.486727738	6.039005055	6.242875063	6.604781761	6.298898671	6.051902067	6.546020999	5.8329744	6.483917664	6.380769038	6.064518408	6.315920771	6.300787265	6.230768541	6.26239576
ARL13B	6.213542157	5.480528274	6.700082896	7.031995839	6.263110236	5.784204332	6.452309489	6.626834141	6.205184582	6.666167551	6.204635004	6.593630466	6.518350264	5.972799912	6.636390790	6.003727571	6.470796539	6.670190636
GAR1	6.613217628	6.164041286	6.112896639	6.112896639	6.599292626	6.069626469	6.093541042	6.402323126	6.411461338	6.402323126	6.411461338	6.411461338	6.411461338	6.411461338	6.411461338	6.411461338	6.411461338	6.411461338
AF0EAC3A	5.387632153	6.655775655	5.319673986	5.185390896	5.281808906	6.180780425	5.424229528	8.48472173	6.142340314	6.142340314	6.142340314	6.142340314	6.142340314	6.142340314	6.142340314	6.142340314	6.142340314	6.142340314
ZNF510	6.425727667	5.556024657	6.379670593	6.237965477	6.498514966	6.709097758	6.513431846	6.780178138	6.077549893	6.077549893	6.077549893	6.077549893	6.077549893	6.077549893	6.077549893	6.077549893	6.077549893	6.077549893
ETEA3	5.931472886	5.312598801	5.741935408	5.741935408	5.596048911	5.596048911	5.596048911	5.596048911	5.596048911	5.596048911	5.596048911	5.596048911	5.596048911	5.596048911	5.596048911	5.596048911	5.596048911	5.596048911
NFAT4C	6.5711310611	6.344934	5.26484018	6.809097053	5.261397127	5.975182688	6.254015855	6.366566943	6.664376449	6.035678669	6.68251685	6.845152023	6.267150707	5.724274927	6.04669263	6.013325069	6.300673782	6.40574789
BCAT1	6.744441004	6.214059094	5.916417411	5.751841584	6.234789806	6.028800461	6.639189716	6.639189716	6.639189716	6.639189716	6.639189716	6.639189716	6.639189716	6.639189716	6.639189716	6.639189716	6.639189716	6.639189716
Clc10r75	7.123481994	5.89287587	6.196438906	7.025735865	7.200736247	6.576599675	5.474765615	6.083112947	6.522424719	6.299663496	6.397124214	5.392595623	6.544026345	6.211340155	5.909025725	6.397103071	6.307338271	6.307338271
SLC23A2	5.481302405	6.153280933	6.650051621	6.650051621	6.206746461	6.892573323	6.206746461	6.627940522	6.658491962	6.206746461	6.627940522	6.658491962	6.658491962	6.658491962	6.658491962	6.658491962	6.658491962	6.658491962
TRM5	6.668780625	5.792652085	5.410230316	5.486740152	5.468952857	6.789268575	6.07811224	6.702524417	6.217628851	6.217628851	6.217628851	6.217628851	6.217628851	6.217628851	6.217628851	6.217628851	6.217628851	6.217628851
IM13	5.881962028	6.026844311	6.841946469	5.595354049	6.269489567	6.207427204	6.877105946	6.478410654	6.253899999	6.389210159	6.704088188	6.555724667	5.71173285	5.797883173	6.932478763	5.877046968	6.27646116	6.094666778
TL11	7.232925466	7.431058197	6.637649391	6.696544138	6.576488122	5.84717809	5.784125148	6.467708215	6.26190931	6.229991626	5.387972579	6.281110786	6.044025377	6.424188007	6.53327219	6.044158862	6.53327219	6.044158862
SPATAS1L	6.068078356	6.460634357	7.036828849	6.8415776	5.716952664	5.927970561	6.902026341	6.064489792	6.3733414	6.263526278	5.917331874	6.644390981	7.093885335	5.40590376	6.276337083	6.265965893	5.773834608	5.90161931
Clorf10E	7.038421265	6.174453592	6.712480259	6.401251677	6.193896069	6.514743702	6.094223276	6.104181921	6.30012385	6.265690664	6.062169497	6.294069406	6.546641856	6.364816086	6.174086586	6.174086586	6.174086586	6.174086586
NHP4	5.171880971	6.323179121	5.165500679	5.109597055	5.749385115	5.173484239	6.956237936	6.710577875	5.947652974	6.725970965	6.216143487	6.624759089	6.547051033	5.77885731	5.722536346	6.538539173	6.53336965	6.327699547
KRTCAP3	7.201025782	6.665142123	6.643273957	6.712199956	6.023808414	6.719599319	6.276743053	6.786429466	6.567663278	6.276743053	6.872316434	5.872316434	5.397599186	6.261865753	5.905247742	5.497072517	5.9784713	7.114586372
MAPRE3	5.760398948	5.323387273	6.401180696	6.812605928	5.96895392	5.47347939	5.327800331	6.311111869	6.308473187	6.147576649	6.328896756	6.220008016	6.304758234	6.832268729	6.403536529	6.549594124	6.508633225	5.890552458
ZNF777	5.55173486	6.544460077	6.135613855	6.426390122	5.449340464	6.442707281	6.332159999	6.963511109	6.187262021	6.557890756	6.844040024	5.34567394	7.090739344	6.108136813	6.548747865	6.059087465	6.204156013	6.204156013
SPNT1	5.211312915	6.559232447	7.208813729	6.453672756	6.409038636	6.110952904	6.444215755	6.554077563	6.554077563	6.554077563	6.554077563	6.554077563	6.554077563	6.554077563	6.554077563	6.554077563	6.554077563	6.554077563
POLA1	7.269095004	5.195894931	6.071781938	6.550941244	5.202632871	5.202632871	5.202632871	5.202632871	5.202632871	5.202632871	5.202632871	5.202632871	5.202632871	5.202632871	5.202632871	5.202632871	5.202632871	5.202632871
PP1R9A	5.625605808	5.102788688	5.075510618	5.075510618	5.618184941	4.70525622	6.782321854	6.671196103	6.671196103	6.671196103	6.671196103	6.671196103	6.671196103	6.671196103	6.671196103	6.671196103	6.671196103	6.671196103
TIGD3	5.312963549	7.458739491	6.345304633	6.121774027	6.20209285	5.906648183	5.517448892	6.244161973	6.342253138	6.317721212	6.349090952	6.324703334	5.310389153	6.273460869	6.256633664	6.750744525	6.293253019	6.101336869
QSOX2	6.262151783	5.965809731	6.264659654	6.127382308	5.981792109	6.177087632	6.339234063	6.450073363	6.114764035	5.731419564	6.535061041	6.16627827	6.163825919	6.390973845	6.271575271	6.101664032	6.101664032	6.101664032
ISY1-RAB43	6.401449884	6.734169399	6.349399484	6.239600527	6.394061393	6.340109762	6.344286619	6.286823008	6.450873899	6.605891735	6.377920527	6.141464895	6.872041583	6.222656626	6.002709011	6.206582473	6.165845721	6.165845721
PTPRN2	7.431154238	7.469339114	6.401168106	6.995476009	6.262490498	5.338972325	6.911838923	6.262775275	6.123395443	6.629778152	6.70729347	5.333861972	6.092352123	5.97647513	5.874626394	5.770610155	6.266761892	6.266761892
ZNF789	6.437799949	5.845011215	6.406272932	6.485573155	6.013146105	6.713976399	6.364858589	6.203338999	5.870918366	6.528767859	6.078591726	6.320840035	6.012653887	6.507365055	6.975412326	6.166510083	6.262959286	6.056656489
ZNF10	6.437799949	5.845011215	6.406272932	6.485573155	6.013146105	6.713976399	6.364858589	6.203338999	5.870918366	6.528767859	6.078591726	6.320840035	6.012653887	6.507365055	6.975412326	6.166510083	6.262959286	6.056656489
ZBT9	6.061727266	6.613732636	6.29237696	6.19237696	6.370171562	6.24870531	6.064767269	6.064767269	6.064767269	6.064767269	6.064767269	6.064767269	6.064767269	6.064767269	6.064767269	6.064767269	6.064767269	6.064767269
THAP8	6.948723864	6.019901103	5.542039171	5.845067116	6.337180235	6.480528768	6.99143123	6.243728608	6.650876915	6.423445111	5.967731246	6.274990948	6.440770933	7.193270268	5.869876594	6.004704823	6.220453587	6.108852871
ZNF17	7.465195389	6.278534035	6.715407535	6.278534035	6.715407535	6.278534035	6.715407535	6.715407535	6.715407535	6.715407535	6.715407535	6.715407535	6.715407535	6.715407535	6.715407535	6.715407535	6.715407535	6.715407535
TC7	6.194147663	6.049731671	6.168165433	6.484380066	5.762514054	5.844791122	5.796615665	6.464994924	6.24984601	6.53627146	6.285726571	6.409957681	6.785036909	6.968878094	6.4162361	6.549266373	6.230177205	6.316044145
TMTC4	5.384319662	7.37704986	6.785499425	6.785499425	6.625617024	5.3653436	6.425288186	6.421448111	6.270470561	6.649654321	6.002756651	5.321197647	6.185672056	7.761395029	6.243917636	6.548538348	7.103195669	7.103195669
ZSCAN5	6.630285637	6.556302668	6.652556216	5.73583532	6.269150802	6.250801276	6.514472999	6.47483159	6.179974545	5.989546042	6.083714876	6.648514958	6.422023641	5.808237583	6.048590459	6.000653137	6.464378132	6.263530208
CORO7-PAM	6.360095266	5.981375337	6.497376521	6.390956794	6.270496529	6.433167569	6.26767964	6.036292363	6.135986207	6.135986207	6.135986207	6.135986207	6.135986207	6.135986207	6.135986207	6.135986207	6.135986207	6.135986207
PANF1H13	6.716209089	6.492389612	6.193589612	6.193589612	6.30104747	6.30104747	6.30104747	6.30104747	6.30104747	6.30104747	6.30104747	6.30104747	6.30104747	6.30104747	6.30104747	6.30104747	6.30104747	6.30104747
SEMAF4	5.230013478	6.725372239	5.266170845	7.402460999	6.659811637	6.642597552	5.257376	6.407137786	6.109405644	6.450493538	6.659497538	5.237339089	5.236700196	5.241122191	6.084211166	6.386508592	6.102506933	6.926849003
NPL	6.456274814	6.576340282	6.42674814	6.576340282	6.42674814	6.576340282	6.42674814	6.576340282	6.42674814	6.576340282	6.42674814	6.576340282	6.42674814	6.576340282	6.42674814	6.576340282	6.42674814	6.576340282
PUS7	5.408627162	6.114486773	5.404284722	6.670570729	6.422519045	6.26554048	5.963133563	6.019146473	6.302140754	6.680936798	6.33894323	5.776209506	6.690598701	5.420866564	6.624022535	6.513207287	6.242696355	6.301698117
TSGA10	6.223771674	6.223383686	6.004887841	6.223383686	6.004887841	6.223383686	6.004887841	6.223383686	6.004887841	6.223383686	6.004887841	6.223383686	6.004887841	6.223383686	6.004887841	6.223383686	6.004887841	6.223383686
Clorf10E	6.518727278	6.405730667	5.738947804	5.58714002	6.522663262	6.305986913	5.6054027	6.176411831	6.342526002	6.195073014	5.90221851	6.30656764	6.746168175	5.986451708	6.46808749	6.461962074	6.423774465	6.423774465
SMIM4	6.84347758	6.257102086	6.382803929	5.68														

SLC25A30	6.539634325	6.05080462	6.494331891	5.975778837	6.078712087	5.855229129	6.046853547	6.757644194	6.270884299	6.426016938	6.415188034	5.6232427	7.625390581	6.015627439	6.690536991	6.168375855	6.311856905	5.920844664
ZNF68	6.530127711	5.962595642	6.52251831	6.632225591	5.422092907	6.450233879	6.37041005	6.117334932	6.221407393	6.351987127	6.300754349	6.495261299	6.031489386	5.850980456	6.357180304	6.216758015	6.142958620	6.098610297
TAJF1A	6.734372725	5.923797206	7.204255827	6.641127888	6.788364631	6.224909303	6.308140131	6.379397171	6.030907559	5.906674349	6.386689503	5.989625925	5.442837102	5.551796152	6.469094133	6.184816048	6.28508411	6.079481085
EFCAB11	6.295398893	5.428689955	6.207774188	6.413212888	5.835779868	6.835779868	6.249012296	5.931912445	6.360656603	5.931912445	6.347483695	6.063346444	5.576278129	5.563396968	6.276972204	6.02494932	6.170272732	6.792135884
ZNF28	6.763773023	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368
CD8	6.265858149	6.196520829	6.279993267	6.412212888	6.412212888	6.412212888	6.412212888	6.412212888	6.412212888	6.412212888	6.412212888	6.412212888	6.412212888	6.412212888	6.412212888	6.412212888	6.412212888	6.412212888
M3AP36	6.047579995	5.605462801	6.801349677	6.688790848	6.646464906	5.327093407	6.440394178	6.264441825	5.599233525	6.268518084	5.840246162	5.720954838	5.323961387	6.273906117	6.487569282	5.95354996	5.673664088	6.164100624
ZNF47	5.912172892	6.510528449	6.057528449	6.314045791	6.232281627	5.89127801	6.002188346	6.787084836	5.96097955	6.171010834	5.204296428	6.08491168	6.173909269	6.430796344	6.587090406	6.122389697	7.006515046	6.582521394
SVBP	5.952822085	6.174127454	6.635404206	6.586284874	7.012142003	6.159498781	6.065597641	6.086638907	6.355877468	6.149655506	6.196826055	6.992375657	5.739555812	7.021493808	5.891931429	6.414051472	5.888678466	6.229253229
AGAP5	6.451201501	5.954120542	6.441189669	6.22688566	6.037361872	6.302549994	6.114176633	6.194932221	6.228902604	6.22691062	6.291379304	5.658126522	4.86887472	5.694712668	5.796105291	6.238231241	5.833838049	6.203183682
NUD18	5.44117627	5.44619506	6.22688566	6.037361872	6.302549994	6.114176633	6.194932221	6.228902604	6.22691062	6.291379304	5.658126522	4.86887472	5.694712668	5.796105291	6.238231241	5.833838049	6.203183682	6.197187752
ZNF1	5.639631026	5.461597308	5.461597308	5.461597308	5.461597308	5.461597308	5.461597308	5.461597308	5.461597308	5.461597308	5.461597308	5.461597308	5.461597308	5.461597308	5.461597308	5.461597308	5.461597308	5.461597308
GATL3	6.05927999	6.694012265	6.398092993	6.187158945	6.230882537	6.416484004	6.053573176	5.985791477	6.058988225	5.83346258	6.688262689	7.168526407	5.71841453	5.75637061	6.24461714	5.7577762	6.170272732	6.792135884
SPYLC3	5.906931552	6.357460949	5.899830201	5.92228965	6.246662102	5.667105254	5.913081249	4.008637337	6.171259097	6.658840026	5.803835929	6.068971755	6.260591776	6.010967825	6.429491682	6.30779212	6.77471831	6.574162217
R2SD2	6.226551936	6.650528982	6.898184981	6.585439418	6.690848334	6.078377076	6.1716498251	6.202367904	6.028817312	6.560862049	6.128385923	6.768121869	6.393465048	6.128385923	6.768121869	6.393465048	6.552124866	6.496465162
ZMAT1	7.182228028	6.234737658	5.383480207	5.523408773	6.529172404	5.514233758	6.745805106	5.908423123	6.516582218	6.151326427	6.108553169	5.397407963	5.391072797	5.501202204	6.374114058	6.306875518	6.574928377	5.908990214
SP1	6.219578106	6.274774792	6.34041005	6.274774792	6.34041005	6.274774792	6.34041005	6.274774792	6.34041005	6.274774792	6.34041005	6.274774792	6.34041005	6.274774792	6.34041005	6.274774792	6.34041005	6.274774792
LRN37B	5.907536683	6.23399173	5.868589936	5.831935668	6.43195668	5.908470863	5.994317211	6.431761627	6.00649494	6.487505511	6.207413537	6.777368841	5.824639933	5.869465162	6.314732272	6.311980575	6.484389429	6.022877298
RRP18D	5.485514278	5.48599266	6.449732786	5.96138666	6.941260033	6.768884556	6.067959736	6.202861968	6.446364269	6.28823877	6.246886323	5.779715694	5.386779245	5.479172667	6.69375144	6.206806505	5.509429508	6.322454508
DKH3	6.53853723	6.765489884	6.196831876	6.428793295	5.725794161	6.428793295	5.725794161	6.428793295	5.725794161	6.428793295	5.725794161	6.428793295	5.725794161	6.428793295	5.725794161	6.428793295	5.725794161	6.428793295
KLHD7C	6.70219877	5.377248985	6.008442393	6.52299998	6.348733792	6.629323564	6.234023356	6.290679513	5.998690653	6.399877177	6.034185817	6.714355142	5.903336975	6.082190795	6.216123271	6.375648824	5.993540005	6.098610297
STOX2	6.998257772	7.862611245	5.152894451	5.094883022	8.0161134	6.733770176	6.512885223	6.211880557	6.181175799	6.821113169	6.13940246	5.433242627	5.2918708	6.210840008	6.385894361	6.837746966	6.217468094	5.836375932
AL109923.1	5.477555584	7.171575799	6.358647626	5.809982241	6.865912862	5.489630653	6.96141334	6.181114759	6.782865242	6.023682931	6.19042964	5.433242627	5.2918708	6.210840008	6.385894361	6.837746966	6.217468094	5.836375932
CTBP2	6.514411179	5.614254009	6.144024343	5.614254009	6.144024343	5.614254009	6.144024343	5.614254009	6.144024343	5.614254009	6.144024343	5.614254009	6.144024343	5.614254009	6.144024343	5.614254009	6.144024343	5.614254009
IFI27	6.152779815	8.099579287	4.770157465	4.752473481	6.538201463	7.08064533	6.951345428	6.063930708	6.161125979	6.00008768	6.241311111	6.236554517	7.034664247	6.947706609	7.619314333	7.636016123	6.613917982	6.947206539
CCDC7	5.999131197	6.48843674	6.273438746	6.363353544	5.41174632	4.466249662	6.250194913	5.811936235	6.351142769	6.217990338	6.02073698	6.355647727	6.724747322	5.360342847	6.15841624	6.583129941	6.179175253	6.169943258
FOXO4	6.102398941	5.409054003	5.717624994	6.117475999	6.456396662	5.52776104	6.555871028	6.489042028	6.15115292	6.195883657	6.216128995	6.341791864	5.345771956	7.023382149	6.634737021	6.19639747	6.250301748	6.729921868
ZNF70	6.434523258	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368	6.943843368
PHLAD2	5.961102827	5.524658145	6.114024343	6.108658626	5.922045636	6.14788671	6.10288361	6.410710583	6.06807555	6.469112789	5.492515715	6.70984548	5.408161957	6.516843675	6.179761133	6.109790306	6.724049829	6.228049829
FAM171A1	5.097228142	5.090415586	5.090218123	5.07441181	6.40443285	7.046129032	6.679996991	6.198939574	5.982457947	6.460297849	6.683977368	5.200144893	6.179026809	5.104068921	6.82895536	5.729332619	6.189335309	7.066517816
KIAA1958	6.797730307	7.266879326	5.72136776	6.176828839	7.303028783	7.127276773	6.178628839	6.57811888	5.70749302	6.93004602	5.963033051	6.54984703	6.209566208	5.737627912	6.532108909	6.532108909	6.532108909	6.532108909
PRICKLE3	6.386678768	6.84689798	6.775844692	6.19983157	5.420525927	6.27694901	6.40438039	6.125039685	6.215679988	6.446927275	6.064618163	6.301781526	6.57933492	6.645642881	6.05271619	6.113941604	6.183826110	5.936328297
KCN2A	5.627976517	6.15106691	5.987232395	6.15245862	6.081381246	6.269464981	6.012980008	6.565788977	6.15245862	6.012980008	6.565788977	6.15245862	6.012980008	6.565788977	6.15245862	6.012980008	6.565788977	6.15245862
CDRT4	6.342841532	5.903461286	5.846640493	5.916793117	6.52746368	5.797016149	5.928333767	6.37135601	6.034919692	6.273703339	6.105911104	7.003781799	5.720231028	6.430241738	6.095731338	6.285019652	6.17732648	6.295639866
EXOC6	6.159794924	6.539540075	6.930624646	6.159794924	6.539540075	6.930624646	6.159794924	6.539540075	6.930624646	6.159794924	6.539540075	6.930624646	6.159794924	6.539540075	6.930624646	6.159794924	6.539540075	6.930624646
DIAPH2	5.305125711	5.38564802	7.030110315	5.21622663	6.971293706	7.468470135	7.120401157	6.144832045	6.540564088	6.170300110	5.25464258	5.329977558	5.499927838	5.143749464	6.05716871	7.004144559	6.216327717	6.455720358
LCAT	6.143959414	6.052454798	5.947779592	6.143959414	6.052454798	5.947779592	6.143959414	6.052454798	5.947779592	6.143959414	6.052454798	5.947779592	6.143959414	6.052454798	5.947779592	6.143959414	6.052454798	5.947779592
RASGF1R	5.735357059	5.495973047	5.16369471	5.138747056	6.169768056	6.1611930065	7.415028797	6.684893986	7.763943886	6.517387125	5.515453517	5.797144306	5.207664595	6.731758054	6.743416001	7.107661644	6.202267822	5.660846226
SRGA1P	6.133682535	6.050764295	6.046730216	6.133682535	6.050764295	6.046730216	6.133682535	6.050764295	6.046730216	6.133682535	6.050764295	6.046730216	6.133682535	6.050764295	6.046730216	6.133682535	6.050764295	6.046730216
NAIF1	6.310327188	7.003426188	7.003426188	7.003426188	7.003426188	7.003426188	7.003426188	7.003426188	7.003426188	7.003426188	7.003426188	7.003426188	7.003426188	7.003426188	7.003426188	7.003426188	7.003426188	7.003426188
TRIM6	5.822601121	5.652637412	7.255135774	5.658303626	6.478230485	5.781930557	5.99994036	6.367784674	6.1967784674	6.367784674	6.1967784674	6.367784674	6.1967784674	6.367784674	6.1967784674	6.367784674	6.1967784674	6.367784674
EXOC6	6.159794924	6.539540075	6.930624646	6.15979492														

HST2H4B	5.82172168	6.43388053	5.75404053	5.572624857	5.725380016	5.89583435	6.342218029	6.139924999	6.155671736	5.875639153	6.159282023	5.907982616	5.859064036	6.278532387	6.152843475	6.202148545	6.346235796	6.443800863
AMIG0	6.678577105	5.982079791	5.166177014	6.116278268	6.116278268	6.116278268	6.116278268	6.116278268	6.116278268	6.116278268	6.116278268	6.116278268	6.116278268	6.116278268	6.116278268	6.116278268	6.116278268	6.116278268
PRXG3-TAX1	6.178749974	5.073344741	6.162899774	6.178749974	6.178749974	6.178749974	6.178749974	6.178749974	6.178749974	6.178749974	6.178749974	6.178749974	6.178749974	6.178749974	6.178749974	6.178749974	6.178749974	6.178749974
NUF1P1	7.293498478	6.560349428	6.107968735	6.095926924	6.504126554	6.527876337	6.733489242	5.909461554	5.978231305	6.118413345	6.026393322	6.183787488	6.951916233	5.34738832	6.066601299	6.214510241	6.338151684	6.212111001
THEN176A	6.93097454	6.203264172	5.83844827	5.812322393	5.812322393	5.812322393	5.812322393	5.812322393	5.812322393	5.812322393	5.812322393	5.812322393	5.812322393	5.812322393	5.812322393	5.812322393	5.812322393	5.812322393
SLC29A	5.627615807	6.093155607	6.350470857	6.350470857	6.350470857	6.350470857	6.350470857	6.350470857	6.350470857	6.350470857	6.350470857	6.350470857	6.350470857	6.350470857	6.350470857	6.350470857	6.350470857	6.350470857
DOT1L	5.643945652	6.588207085	5.75319518	5.668251887	6.45697683	6.48440115	6.22281498	6.66660386	6.247164148	6.389253646	6.061741097	6.151920264	6.053131119	5.823418312	6.466788918	5.874545757	6.379540569	6.788954194
WNT4	5.53206762	5.176498995	6.688129752	5.526774479	6.245709124	6.530157378	6.28392192	6.70753264	6.423016992	6.111265474	6.69304977	6.076768874	6.859288591	5.459676531	6.11726588	5.940456152	5.695117652	5.986692223
SUT1	5.923758032	6.641780299	5.733974659	5.999978634	6.259952133	6.596998392	6.623121421	6.139465012	5.771884334	6.374796511	6.033504767	6.856709356	5.734695694	6.036000724	6.050090994	6.140465517	6.335579796	6.24069289
ZNF764	5.689107495	6.044228285	5.574531873	5.629063115	5.765268511	6.456303255	6.46631478	6.045801949	5.850016969	6.230196987	6.262868032	6.357566682	5.781106888	6.808815074	6.157260047	6.11741898	6.104166036	6.401166036
B3GAT2	5.628868958	6.081778695	6.081778695	5.490062797	5.532785827	6.307882744	6.091822746	6.205236585	5.703244412	6.265377993	5.994299674	6.179835757	6.028816456	5.733579028	6.490560076	5.901275908	5.567411067	6.347110667
NCA1B1	6.086878659	6.49867994	6.49867994	5.864221443	6.188972128	5.28777383	5.631800696	6.170926829	6.09585149	6.26612744	5.984510706	5.611749509	6.265013856	6.251590016	6.13990875	5.967309898	5.56017974	5.416485265
NR1B3	6.26870534	6.363140191	6.178765099	6.201770355	6.109508414	6.386989898	5.872710322	6.132428485	6.0506489	6.230728579	5.340264646	5.69749541	5.904463561	6.134245502	6.099272515	6.701389597		
MOC51	6.881926153	5.311364959	5.311286829	6.219655555	6.180105091	6.835252944	5.469973858	6.46893008	6.027899624	6.045725407	6.25548725	6.443584842	5.512402557	6.03310358	6.25691192	5.765641158	5.65195958	6.575180988
TMEM237	6.38419976	6.754753718	5.530935489	6.451086779	5.493708958	5.81826529	5.22562794	6.570793283	6.104554083	6.386808144	6.754656897	6.731398365	6.963453209	5.27790073	5.812037632	6.159024107	5.619039028	6.87018715
TRMT5	5.51514384	5.483236079	5.891642261	6.875131252	6.454434437	6.556032776	5.908688793	6.047764778	6.312855566	6.255084793	6.623943547	5.687044983	7.468890741	5.709401031	5.893961672	6.110357414	6.73539486	6.15297249
STXBPA	5.51863199	5.613998581	5.613998581	5.538290095	5.247231217	5.353275959	5.790829607	7.240729139	7.2382372	7.007305629	6.546996819	5.69718673	6.455556402	6.661213907	6.101813898	6.947508479	6.599628336	
SNURF	5.640801864	6.223030309	6.693144018	6.082400022	6.420343259	6.10809575	6.296691998	5.827705322	6.039063466	6.074676207	5.882148	6.208055122	5.842128217	5.823159299	6.175494829	6.166204186	6.299982149	6.52181546
DHFR2	5.650971465	6.047043178	6.309850525	6.047043178	6.289127869	5.643239479	5.643239479	5.643239479	5.643239479	5.643239479	5.643239479	5.643239479	5.643239479	5.643239479	5.643239479	5.643239479	5.643239479	5.643239479
IMP2	6.165227574	5.37413804	6.066076029	6.165227574	6.165227574	6.165227574	6.165227574	6.165227574	6.165227574	6.165227574	6.165227574	6.165227574	6.165227574	6.165227574	6.165227574	6.165227574	6.165227574	6.165227574
FAM220A	6.463869538	6.130549928	5.564059073	6.049625254	5.562958979	6.174841351	6.388017691	6.008591974	6.070608996	6.130345977	6.218992564	5.854720215	6.930250486	6.51553061	5.898780023	5.933313305	6.269007204	5.649784222
LYPD5B	6.064084977	7.234903903	6.461564036	6.623761399	5.973265055	5.319094411	6.791979867	5.88731904	6.104346249	6.382327742	6.218375215	6.104346249	6.382327742	6.218375215	6.104346249	6.382327742	6.218375215	6.104346249
NTSE	5.120824135	6.766219737	6.752416304	6.015016828	5.107596351	6.334961849	6.574345882	6.080341977	7.270207576	5.907522522	6.94915288	5.97734151	5.116925115	5.128316292	4.95907821	6.430367136	6.179506414	6.74748247
PPP1R2P9	5.105810017	6.189674248	6.124471901	6.189674248	5.937551695	6.729997958	6.729997958	6.368489656	6.926105085	6.829812053	6.74651868	5.102351512	5.102540483	5.112105207	6.270958489	6.864446905	6.135206669	5.677090291
ZNF616	6.851454791	6.78885138	6.851454791	6.955457166	5.34449359	5.379135935	5.40629044	6.340154627	6.225531532	6.053706506	5.994154235	5.73366574	5.57822842	6.245156401	6.347452649	6.20345192	5.802435904	6.78230000
ZNF619	7.014137987	7.064072804	6.85652863	6.301569296	5.352234252	5.334959865	6.124107047	6.239545056	6.838389712	6.136360919	5.377099756	7.451262668	5.423112167	6.155257549	6.404396537	6.00452377	6.782470206	
PZDRNA	7.093916891	6.187529415	6.82083898	6.1011726117	6.960687268	5.039917047	5.0391392615	6.332250935	6.739300222	5.842288276	6.172885967	7.783925882	5.433536995	5.045730791	6.546871128	6.084749396	5.313503116	5.258842994
HPY2	6.918548799	6.019643799	6.019643799	6.019643799	6.019643799	6.019643799	6.019643799	6.019643799	6.019643799	6.019643799	6.019643799	6.019643799	6.019643799	6.019643799	6.019643799	6.019643799	6.019643799	6.019643799
KCTD6	6.208791608	6.044786333	5.330008885	6.114783633	5.898672698	6.208795751	5.9211001167	6.129551301	6.129551301	6.129551301	6.129551301	6.129551301	6.129551301	6.129551301	6.129551301	6.129551301	6.129551301	6.129551301
NUDT6	5.11654807	5.116758316	6.577090983	5.100128436	6.395933774	6.968852348	5.157993482	5.932469557	5.722819442	6.290379556	6.364289378	5.085591104	7.060255958	7.319647829	6.336605075	6.153297925	6.097744264	6.584795919
ACO2592.1	6.490455656	5.586064774	6.151174668	6.326751024	6.293482099	6.107274492	6.107274492	6.073945056	6.108631444	6.142465577	6.280994623	5.727531605	6.51944073	6.606452785	5.99180736	6.046362003	6.036926172	5.608762921
ADAM15	6.264506152	6.470398918	6.209914680	6.332150869	5.857230176	6.252014829	6.680913754	6.423202739	5.83170662	6.001840904	5.856454678	6.300795893	5.432451374	5.674668575	6.38438924	6.077157958	6.172435339	6.04127453
SCL19A5	5.336135854	6.992572268	7.103475633	6.193150523	5.78341729	7.395814671	6.396229044	5.991796842	6.194438281	5.932809974	6.234967116	5.286927053	5.950145787	5.473493583	5.41627869	6.059688659	6.189693099	6.683755484
PHACR2	5.229922248	5.176698097	5.643661392	6.1010648179	5.147073211	6.117710386	5.208860142	7.042253377	6.156306316	6.345868627	5.983399629	5.221418531	5.390297848	6.67271088	6.702296877	5.676930267	6.122275168	6.991471479
DNPL2	6.402937987	6.100756962	5.70972096	6.402937987	6.402937987	6.402937987	6.402937987	6.402937987	6.402937987	6.402937987	6.402937987	6.402937987	6.402937987	6.402937987	6.402937987	6.402937987	6.402937987	6.402937987
AGAP1	5.72401866	6.437610182	6.437610182	6.437610182	6.437610182	6.437610182	6.437610182	6.437610182	6.437610182	6.437610182	6.437610182	6.437610182	6.437610182	6.437610182	6.437610182	6.437610182	6.437610182	6.437610182
FAM185A	6.22287647	6.198508956	6.550540039	5.839609905	5.847393255	6.458903603	6.194021417	6.105015296	5.925044418	6.167174057	6.833248505	5.839264276	5.54007575	5.393930889	5.871951405	6.135705275	6.148293723	6.240005556
LRP2B	6.451291304	6.184043703	6.213399924	6.451291304	6.184043703	6.213399924	6.451291304	6.451291304	6.451291304	6.451291304	6.451291304	6.451291304	6.451291304	6.451291304	6.451291304	6.451291304	6.451291304	6.451291304
MYL5	5.932664949	5.552469149	6.614131204	6.363734773	6.048944026	6.774053932	5.724363042	6.101419069	6.374913015	6.138049796	5.949990398	6.400199455	6.517707304	6.478798001	6.008416939	6.076207074	6.161476487	6.058418084
DGCR8	5.78346852	5.523218683	6.025298401	5.975058269	6.689934563	6.589095926	6.589095926	6.342703409	6.589095926	6.342703409	6.589095926	6.342703409	6.589095926	6.342703409	6.589095926	6.342703409	6.589095926	6.342703409
KIF27	5.72288891	5.615707684	6.025690022	6.398908009	6.016589428	5.843568618	6.074590707	6.26827384	6.075400782	6.30039571	6.156341143	6.270074782	6.855971043	5.687466386	5.840069207	6.22242088	6.17569524	6.17005569
PFKP	5.254860413	5.710306315	6.198024628	5.254860413	5.710306315	6.198024628	5.710306315	5.852080153	6.626598937									

DUP7	5.515415837	6.731799535	6.67338445	5.769894567	5.71841783	6.117394623	5.766991632	6.18163566	6.48932557	6.055574078	5.92184553	6.23828046	6.103496327	6.24244019	5.887449459	6.127637747	5.915907775	5.71309378
LYAR	6.681314564	6.568421034	6.89413735	6.89413735	7.1729911	5.725885427	6.492060478	6.249123278	6.131091016	6.069840295	5.962192072	6.013800717	6.672473088	5.290763609	5.76667367	6.08922834	5.874490848	5.800595528
WDR53	6.045495669	6.041266453	5.526923171	5.301113834	5.970341911	6.323512335	6.219315934	6.371328281	6.18333008	6.335166582	6.29386423	5.310632009	5.861296956	6.113492929	6.204433504	5.947789794		
TECA3	5.220497421	6.136441299	6.512498791	5.674281677	6.492852092	5.303034003	6.134522274	6.20466305	6.418250025	5.899253188	6.37420214	6.33679558	5.12589356	5.462499741	5.739274547	6.023568374	5.96579306	6.275008793
RIIP2	5.565651465	5.877037627	5.574985399	6.383271000	5.798325629	5.794352629	5.794352629	6.192952844	6.21175712	6.170180485	6.20235315	5.710810465	6.049979678	6.231088309	5.630991148	6.147217444	6.210883809	6.172797444
TA13	5.284271663	5.468423812	5.628474452	5.628474452	5.287496486	5.719992412	6.357649441	6.357649441	5.702871131	5.872067871	6.28282613	6.251923028	5.342091763	5.928673579	5.81670523	5.245717794	6.1218132	6.187078557
CENP	5.615522862	5.633960672	6.142157984	5.504244765	6.232066623	6.74020729	5.552806764	6.130698945	5.829218373	6.025157855	5.97817696	5.921685754	6.600690723	6.759055116	6.260316007	6.14253673	5.945967665	6.133857207
ZN45	6.065284786	5.442387678	5.682384078	5.497304875	5.18959159	5.182264239	5.539074472	6.488983608	6.240688181	6.0520339	5.116266318	5.645548723	7.355977995	6.695042975	6.500156928	6.457035553	6.08827788	6.26718444
RFN144A	6.245706701	6.107664852	5.91004849	5.386639308	5.386639309	5.493134913	6.73952528	5.942794687	6.498818386	6.671966847	6.533832455	5.396983456	5.286276266	6.259999613	5.914293608	7.015131214	6.043693299	6.165190164
OTU47B	5.94490595	6.060621096	6.090634904	6.090634904	6.060621096	6.368323215	6.356676471	6.14411792	5.912278098	6.314111479	6.275858437	7.722049993	5.865367812	5.729574348	6.620561446	6.351208377	6.66716097	5.947716097
ILDR1	5.433804895	5.579434507	6.471822489	5.84695521	6.256309396	6.797394804	5.43386621	6.170364307	6.065899161	6.075099916	5.717842778	6.920268649	5.493109282	5.583059632	6.07937856	6.189024495	5.956149245	6.1306320275
RNF215	7.055367137	5.423517284	5.802845173	6.033348718	5.295293205	5.2948975196	5.700533222	6.601491847	6.183234415	6.675803962	6.008452879	5.712663187	5.874792689	6.108346011	6.214369663	6.678274367	6.945773937	6.166655488
CD14A	5.060697668	5.060697668	5.065113315	5.547540686	6.146469608	5.50918257	6.072389056	6.064365569	6.278784514	5.08140041	5.058279406	5.065325555	6.269659659	6.263711994	6.069187213	5.679150717		
MER2	6.078785016	5.770659649	6.430176241	5.833306259	6.078242957	6.013008152	6.128510835	5.886331172	6.179319195	5.098966605	6.03327483	6.073983913	5.547909165	6.648345604	5.811204567	6.008310493	6.075441058	6.073669599
INF1	5.923972008	6.383115949	6.862126705	5.864104254	6.145253855	6.00967845	6.414033749	6.0502961785	6.314517931	6.059788378	6.236266494	6.384867573	6.012004894	5.613838817	5.995460426	5.83029236	6.03798706	6.254745024
TRNRSF10D	5.246034586	6.683616344	5.178291334	7.599957795	5.213096843	5.210392629	5.300979278	6.53271853	6.04004434	5.902880974	6.403231105	5.717116387	5.017554891	7.962476404	6.985272415	6.600798925	6.095777947	6.347078718
ILL1RA	5.401160034	5.269030134	5.146302083	5.132797085	5.90592573	6.163582845	6.778841623	6.269992677	5.530955147	6.0646689	6.42205484	6.218163224	6.259578828	5.149427569	6.05626815	5.708632583	6.128247783	6.082912566
HIST13H3	6.270400404	5.147841422	5.165711651	5.171847252	5.624102366	5.817624023	6.309843649	5.593976573	5.891220196	6.234217163	6.28685211	6.685062203	6.259447207	6.384091147	5.972187306	6.166758131	6.36505471	
ZN615	6.234707673	6.462458617	6.180350268	5.875281552	6.152754269	5.841664421	5.622059274	6.199338734	5.67314256	5.150363538	5.672123366	5.473261841	5.749853559	6.05959341	6.078313072	6.100226117	6.262365825	5.912499566
NOP3	6.471639414	5.699090672	5.886477991	6.181815545	6.140042747	5.734084107	5.828420119	6.233830051	6.058217113	6.177191289	6.67979654	5.738888574	5.378631101	5.401636329	5.152999823	5.886259929	6.216666979	6.341748438
LE13	6.932028958	5.995927398	5.688146572	5.729942095	5.320800897	6.432235653	6.226375261	6.119427745	6.169270913	5.609874726	6.05381352	5.324097605	6.195738745	6.103795485	6.379688695	5.955503845	5.893595879	6.489336944
KMTD2	7.18554407	6.045373839	6.013829669	5.654487263	6.24633498	6.119615862	6.277639407	6.18148673	6.838900152	5.63958577	5.463055538	8.36540248	5.820554391	6.48685881	6.146458167	5.856868914	6.153039424	
PLEKHM3	5.742699099	6.58240531	5.559505073	5.757626241	5.55920481	6.679419005	5.435836483	6.327204868	6.182299438	6.32542485	6.236756651	6.864636639	6.025680022	5.52912815	6.343772053	5.914008657	6.10774637	5.99273437
LINC01125	5.835458668	6.584242872	6.554738598	5.797510247	5.620716147	5.701380665	5.84251092	5.520765782	6.185053276	6.610682449	6.065977509	5.58826062	6.010063737	6.407808602	7.033058284	6.341503673	6.66183012	6.129705051
SPRY1	6.480620287	5.788797415	5.714822226	5.833677904	5.248012344	6.078684174	6.884426203	6.141040218	6.204273971	5.66315488	6.310428836	5.743494785	5.260570497	6.53011995	6.05230482	5.804643602	6.282498348	6.49939548
CCDC134	6.237018454	5.905535315	5.900535068	6.114505011	6.048966666	5.316314492	6.356175767	6.311920336	6.036308093	6.365251827	6.093295901	6.247108038	6.675044186	6.188379698	5.981437443	5.993808245	6.156523521	5.87513333
DDI4	5.545435956	5.340849229	5.995702372	5.778821973	6.664832158	5.232897651	6.102906287	6.544176249	6.031493445	6.184420511	6.096110805	7.126868585	5.991114381	5.319008956	6.76869327	6.335238922	5.988987764	6.109705049
RIIP2	5.931605185	6.109179174	6.109179174	6.109179174	6.109179174	6.109179174	6.109179174	6.109179174	6.109179174	6.109179174	6.109179174	6.109179174	6.109179174	6.109179174	6.109179174	6.109179174	6.109179174	6.109179174
EC2	5.95575842	5.773435956	5.494286069	6.784712539	6.384157208	6.086517474	6.103795613	6.10129249	6.080020023	6.15175259	6.087350621	6.041462935	5.914299258	5.806421619	5.92792828	5.812781326	5.946258709	6.23876074
FZD5	6.335167534	5.897874939	5.731923757	5.957955521	5.7047794	5.384722754	5.084102283	6.436590796	6.570926263	5.819730507	6.28664891	5.333294519	6.421846532	5.901020416	7.052490098	6.385220176	6.123435331	7.06027297
AC00719.2A	6.167774366	6.76265788	5.856499575	6.19699999	5.856789975	6.128436785	6.142124654	5.908625406	6.142124654	5.908625406	6.071022664	6.05962724	5.828733636	5.700752776	5.906052516	6.193821348	6.628970404	6.198077065
SWSA1	6.770010515	6.066277354	6.651427929	6.052444983	6.132156752	6.069286474	6.069286474	6.010326644	6.05962724	5.828733636	5.700752776	5.906052516	6.193821348	6.628970404	6.198077065	5.965138352	5.915081804	6.068544843
RAPGEF4	7.211238652	5.262656938	5.919268385	5.919268385	5.919268385	5.697660113	6.128061009	6.163348683	6.865505566	6.36141635	5.794238823	5.591039171	5.208710245	6.67751414	6.607944203	7.039629572	5.658455723	6.196271188
RIKMLA	7.025757539	6.31727539	6.151245585	6.847647753	5.17001246	6.57717047	5.167850315	6.470170198	5.52246684	5.550294348	5.157929319	6.676219169	5.742093666	5.19027572	6.163641039	6.148306131	5.499612231	5.962126683
DUSP18	5.931605185	5.765769979	6.653651802	6.15218302	7.896767629	6.68021267	6.68021267	6.046320711	6.063339887	6.071599868	5.965290456	5.897778358	5.552826278	6.623803584	6.304789959	5.8714511	6.252383808	6.047823783
LE13	6.627635019	5.2666819	5.720265495	5.720265495	5.720265495	5.720265495	5.720265495	5.720265495	5.720265495	5.720265495	5.720265495	5.720265495	5.720265495	5.720265495	5.720265495	5.720265495	5.720265495	6.766448634
LYTS-CD302	6.644134661	5.58669286	6.444124836	5.69225664	5.930923227	5.783486067	6.622565229	6.561981436	6.167240197	6.015394062	6.064471034	5.607796975	6.387934161	6.015222343	6.36010198	5.979248673	6.026926535	5.988514015
Clorf126	6.173250055	6.587349778	5.373272397	6.173250055	6.587349778	5.373272397	6.173250055	6.587349778	5.373272397	6.173250055	6.587349778	5.373272397	6.173250055	6.587349778	5.373272397	6.173250055	6.587349778	5.373272397
ZN35	6.195327958	5.16789285	6.207418451	5.160100305	5.165324823	6.286102694	6.13840679	6.11995372	5.867394942	5.802216312	6.093709453	6.192853034	5.164947899	6.398975266	6.126359034	6.626282004	6.012452036	5.763500099
DSP	7.364774883	4.497319429	5.729270783	4.462502025	4.462502025	4.505924878	5.588366926	5.522792922	5.991135889	6.113962271	6.266082966	5.580316525	4.489567241	4.52130021	8.041640508	4.434512704	6.24785592	9.747778929
HE56	5.266924331	5.356624331	6.569467106	6.39467106	6.203886499	5.863871506	6.004648252	6.262497413	5.93170737	6.138699083	6.02158929	5.689128421	5.269219502	5.992374193	6.2678047	5.651812253	6.166174124	6.166174124
DG52	5.780518421	6.569589388	5.967751387	6.055742963	6.28867688	6.071694357	6.546548582	5.986370103	6.032871774	5.872413555								

FES	6.712184584	6.786203115	6.039967726	5.170530669	6.581445077	5.472302186	5.185135729	5.898664666	6.051286011	5.936347419	6.155913944	6.546982825	6.490929871	5.189378583	5.625063766	5.428623024	5.994364458	6.29184449
RAB3B	5.741308125	5.6499978	6.210200132	6.035899371	6.62993497	6.665160938	5.955242881	6.424531604	6.060918584	6.173750011	6.358726473	5.725884214	6.976908012	6.009096401	6.408492944	5.747830414	6.032683669	6.037790122
MAP3K	6.214751578	6.173137883	6.034610953	5.809667049	6.608972081	6.626512052	6.223826444	6.015379556	5.917375058	6.051696566	6.409475926	5.85846975	6.448744607	5.883806903	5.843095981	5.775502878	5.97230686	6.153273708
CTH7orf6	6.004041291	5.839759784	5.520369449	5.914526224	6.143293197	5.951379625	5.857338993	6.131764053	6.045534446	5.913936664	5.98944615	6.060017769	5.21817606	5.939569152	6.030573357	6.053652028	6.215153672	7.321275461
GTA1	7.195495175	6.899789171	6.829270757	6.489978181	5.28118262	5.997328374	5.97880947	5.906644332	5.908644332	5.919487932	5.919487932	6.756799808	5.361205838	6.204423295	6.009581127	6.200496284	6.302096511	6.200496284
GDPA1	6.25028847	5.293258945	5.293258945	6.17928453	6.17928453	6.263676056	5.536640047	6.263676056	6.116405346	6.116405346	6.116405346	6.116405346	6.116405346	6.265013051	6.187894156	7.95627222	6.281155672	5.94285251
GRIN2D	6.117904273	6.586743009	5.944202022	5.902435453	6.134389943	6.109679028	5.813700106	5.774120482	5.90618273	6.032498165	5.703845464	6.196073552	5.689214941	6.522935937	6.148320113	6.26473158	6.974394318	5.514686557
KIAA1161	6.173512079	6.6260777	5.726571239	6.197168463	5.747566855	5.719340467	6.690986211	6.214903595	5.928651973	6.414691699	5.926506556	5.498232513	5.719483633	6.071851212	7.680619827	6.354464963	6.35885737	5.684990966
SH3BP1	5.949052077	6.165977215	6.664252071	6.503678636	6.855018791	6.1361284	5.957189754	5.855709471	5.944086405	5.868794076	5.939036408	6.535363526	5.914825544	7.122384861	6.108551339	6.059022995	6.029501533	6.748934842
RP11-31D1	6.048420844	6.695785286	6.729155273	6.616535004	6.524550074	6.724954403	5.641449961	5.809713408	5.613571504	5.624550074	5.765791219	6.745369091	6.33837873	5.776129587	5.730126349	5.900718378	5.900718378	6.005624648
LYG5B	6.080536785	6.07710329	5.881817114	6.58685229	6.098730510	5.875541006	5.942929935	6.235948416	5.685692616	5.685692616	6.011880655	5.900828011	6.049412543	5.962805951	6.148470284	6.007868111	6.025072544	5.910816287
GAN	5.596476345	6.642595093	6.113611295	5.61708575	5.612095646	5.615143437	5.645902814	6.229418148	6.113730108	6.135011536	6.001722944	6.088934661	6.014291185	5.655262114	6.184852618	5.708429238	6.213809251	6.440575296
RFP5	6.967860294	7.05732247	6.640097872	6.195608708	6.195608708	6.195608708	6.195608708	6.195608708	6.195608708	6.195608708	6.195608708	6.195608708	6.195608708	6.195608708	6.195608708	6.195608708	6.195608708	6.195608708
HMGNS	6.55081438	6.042116629	6.416625952	5.27943527	6.22996072	6.106603407	5.910005127	5.798790999	5.374074281	5.731050722	5.91715555	6.429249597	6.431235476	6.118482971	5.919522541	6.835734339	6.538598301	6.178167142
SEPN1	6.387990409	6.541096633	6.20476163	6.838747843	6.036710793	6.096514827	6.34472337	6.07586742	5.98866742	6.07586742	6.16233414	5.975156638	6.68884295	5.755551718	5.943002079	5.783060047	6.74378873	5.77777503
TP53B1	5.464785391	5.511345679	5.114275835	6.544192997	5.98471076	5.119397748	6.3642747	6.815661315	6.137479961	6.054002048	6.603051363	6.259538655	5.116268953	5.222768428	6.082725934	6.869655163	6.094265376	6.663206256
CKTD21	6.058946619	6.603400372	5.918250583	5.727267279	5.470670484	5.7107804618	5.31527868	6.29445707	6.113990091	5.936231495	6.012319147	5.321390081	6.764415835	5.749971947	6.440688012	6.231469702	5.993999784	6.184607976
PKMAR1	6.331418216	6.989098984	5.837260471	5.89721672	6.082142418	6.128475643	6.466384071	5.873452861	6.248058753	6.285806781	5.94627139	6.349573999	5.628393139	5.350376347	5.990872783	5.970418617	5.90102696	6.020033354
C3orf70	5.402756979	7.289603977	6.344462665	7.015628373	5.445925684	6.990130682	7.153726337	5.450235814	5.610575828	6.754139585	5.59902805	5.425291033	6.337744713	6.801025039	5.59639731	5.390410123	6.828466597	6.2944049174
POLD3	6.222782749	6.382769082	5.931927811	6.190507426	6.209254858	6.816652949	6.236560889	5.82016812	6.455654495	5.618061734	5.781617451	5.234386108	6.262842683	5.240179978	5.84935454	6.076138865	6.076138865	6.20219114
ODG12	6.585264881	7.322157003	5.147107003	6.719169405	6.401124872	5.302757666	5.400448302	6.351525083	5.940018513	6.218971257	6.385976038	6.412143467	5.304593292	5.288911708	5.928016091	5.425403632	5.881072683	6.065010199
ZNF71	6.652151678	5.50996760	7.811605025	7.002363365	5.089355559	6.187959022	5.200973754	5.124145185	6.004586142	6.004586142	5.152414518	6.00162974	5.118199861	6.639751569	5.572311655	5.97264868	5.199105756	6.320121779
CTPS2	5.59376861	6.999754246	5.163712317	5.284292973	5.369056011	5.249622351	6.058785775	6.43554107	6.412725651	5.95701811	6.048764083	6.583740884	6.165567792	5.429297724	5.77929492	6.38813353	6.077936463	6.880073872
PARK2	7.019490869	6.004460269	5.299138194	6.209134608	5.171334524	5.204531877	6.037066699	6.598170532	6.835988367	6.930951011	7.132256002	7.196324632	3.77133594	5.400300117	5.277960784	6.803500622	7.982996171	6.68345961
TYH1	5.378468682	5.319530669	7.0731309	5.711025753	5.372869527	5.368075676	5.698510522	6.025499518	6.025499518	6.036495222	6.68653456	6.190251216	6.08431902	6.8490094208	6.42907473	5.971757455	5.62400074	6.126626853
RECK	6.027646528	6.515983965	5.16723392	5.732290674	5.460061215	5.172209511	5.171346059	5.78386552	6.025499518	6.036495222	6.68653456	6.190251216	6.08431902	6.8490094208	6.42907473	5.971757455	5.62400074	6.126626853
C16orf85	5.53780212	6.417329277	6.29000302	5.973697994	6.011013391	5.986174033	6.088840688	5.813745327	5.97303897	5.864983375	6.112101879	5.916324181	6.988525061	6.5208792	5.889177673	6.204463636	5.242941411	5.909570074
TRAF3	6.29474058	5.807918572	5.807918572	5.807918572	5.807918572	5.807918572	5.807918572	5.807918572	5.807918572	5.807918572	5.807918572	5.807918572	5.807918572	5.807918572	5.807918572	5.807918572	5.807918572	5.807918572
NTRC1B	6.094338129	5.99481015	6.383360124	6.593539836	6.36347402	6.588812034	6.101779523	6.101779523	6.101779523	6.101779523	6.101779523	6.101779523	6.101779523	6.101779523	6.101779523	6.101779523	6.101779523	6.101779523
GLMN	5.367297532	6.007758366	5.53859553	6.55823136	6.32236067	5.505752128	6.00851558	5.984235567	5.5647766	6.00619649	5.808876243	5.366398925	6.738547268	5.500644631	6.086974175	5.981541091	6.100411402	6.126125044
LCAS	5.104491248	6.056161921	6.038660511	6.346800815	6.049238462	5.104619214	5.440304845	6.048160489	6.064501971	5.604224628	5.102555949	6.59529329	5.915200022	6.4371377	5.667217514	6.354548424	6.13454191	6.354548424
ADCK1	5.317286013	6.215212321	6.952192345	5.392919876	6.379530478	6.403439478	6.03486679	6.25665107	6.035191919	5.953760131	5.626026766	6.888419311	3.576161011	5.800428521	5.367293141	5.911384245	6.373550735	6.14531491
DETI	5.379871023	5.532535124	5.986884719	5.734570138	5.968209579	6.121225062	5.747383868	5.96820956	6.232738235	6.035295719	5.62518739	6.349570665	5.896564104	5.806314003	5.942750125	6.245732435	6.169782726	6.27780247
C20orf80	6.313818935	6.386193204	6.953212051	6.763288972	6.955112485	6.028904718	5.027622708	5.939397939	6.049519814	6.299893383	6.194461695	5.024234325	5.024408552	6.88020796	5.126631666	5.458660323	6.170719342	5.004483943
TRAF13	6.281957381	6.281957381	6.281957381	6.281957381	6.281957381	6.281957381	6.281957381	6.281957381	6.281957381	6.281957381	6.281957381	6.281957381	6.281957381	6.281957381	6.281957381	6.281957381	6.281957381	6.281957381
PHF13	6.202373784	6.73793757	6.23284005	5.601123845	5.674112485	5.818179867	5.916321241	6.015491012	5.893966536	6.128230028	5.981527076	6.401919771	6.181203781	6.637466820	6.000099743	5.708318883	5.708318883	6.000099743
MCFL2	5.762313971	5.711003036	6.171100698	6.009211516	6.48987611	5.696647953	6.338116151	6.410611097	5.717522587	6.176656833	5.702527857	5.822734272	5.812601229	6.484257683	6.015683562	5.97313253	5.97313253	6.015683562
BEND4	7.194400689	5.015609683	5.015609683	5.00905395	5.01088111	5.679494823	5.338434714	5.966335914	5.788434256	5.018438913	6.626259293	7.184895333	6.23535873	6.182782791	6.104334764	5.6467133	5.6467133	6.104334764
ZNF25	6.393868888	5.829900392	6.820143815	5.24853277	6.001795332	6.615139745	5.520762091	5.914130379	6.053752183	6.681548017	5.81544883	6.278733318	6.622396134	5.262531005	6.115280941	6.110098791	5.736204936	6.170366659
GT2FHC4	6.205801628	5.958051622	5.878510421	5.988056122	5.878510421	5.878510421	5.878510421	5.878510421	5.878510421	5.878510421	5.878510421	5.878510421	5.878510421	5.878510421	5.878510421	5.878510421	5.878510421	5.878510421
PDPD	5.083790124	5.274801447	6.437808157	5.066910752	5.07480659	6.265609339	6.526092264	5.330272887	6.599015856	6.484264477	6.197928194	6.957690202	5.081075528	6.111960585	5.447581884	5.646960423	5.772899545	5.692153491
JAM2	6.06467889	5.744572258	5.744572258	5.06467889	5.953986914	5.953986914												

CACN83	6.55598294	6.542901028	5.386837025	6.809591281	5.771145241	5.634792951	5.291680393	6.290088133	6.365166507	6.229209737	5.864493451	5.8979073	5.483125723	5.262920932	5.90927244	5.976280724	6.224081919	6.338934687
TLR6	6.84868523	6.78048593	6.181975026	5.379164388	5.686737545	6.123710073	5.778043068	6.091168757	5.967199013	5.280792236	5.400987714	5.486599277	5.416157005	5.917417396	5.994497357	5.836163351		
TNKS18P1	6.057180344	6.290402604	5.431204704	5.076552545	5.434751405	5.088587656	5.341824615	6.091218363	6.101053869	6.179993002	6.029761195	5.08858923	6.096162521	5.091129774	6.308140874	5.792348783	5.854179137	6.291166379
ZNF138	5.390849652	5.168263266	5.1758615704	5.870480143	5.859073483	5.998828278	5.870634079	6.295160483	5.954703635	6.439800902	5.919257167	5.928857767	5.170307477	6.509354649	6.034809918	5.879378679	5.630871939	5.28981557
SHMS	5.931471817	5.107550897	5.181750327	5.191402585	6.273095984	6.060112139	6.043010863	5.841156645	6.157677225	5.841565674	6.157677225	5.745360074	5.947116331	5.750252216	6.172536004	5.618886133	6.751161008	6.298514008
RNF125	5.740661964	6.046195634	5.490625654	5.450625654	5.490625654	5.97267645	5.560245997	6.058987819	6.058987819	6.058987819	6.058987819	6.058987819	6.058987819	6.058987819	6.058987819	6.058987819	6.058987819	6.058987819
TNCS9	6.41300563	6.607807522	5.430240716	6.199846686	6.41408327	5.45281222	5.19492326	5.955852943	6.001075637	5.954758087	6.001369777	5.251685535	5.24681997	6.694060357	5.82023685	6.065207020	5.796001033	5.925214338
ZNF594	6.631965978	5.6378186025	5.235588626	5.283598232	5.870981255	5.324520874	6.189176681	6.006129543	5.884955086	5.449422273	6.239445982	5.45838567	6.44552174	5.405396896	6.103406892	5.150629242	5.606462387	7.07528524
VN22	5.280423201	6.883940733	5.114537217	6.826255229	5.20629295	6.498385653	5.401317969	5.964771264	6.465839651	5.912207295	5.505558986	6.160314573	7.349179179	5.125767947	5.830890975	6.129411644	5.750299183	5.900715812
SLC25A53	5.584304213	6.276070776	6.126226654	5.152778984	5.147398737	5.304352018	6.322477893	5.996942029	5.558394246	6.139551278	5.760729523	6.301036639	5.892663802	5.238554384	5.925242326	6.234352877	6.003403617	5.949645115
NHPH-ACA1	6.014924715	6.3349131666	5.651718773	5.300389679	6.031025098	5.521372291	5.490804031	5.909868111	5.984843784	6.105138394	5.263773673	6.669104732	6.04343925	6.192539657	5.995773274	5.772898082	5.929630717	5.296301771
CDCD169	5.842102627	6.66884461	5.208212857	5.300452934	5.214971023	5.198890679	5.393210724	6.214178217	5.26675785	5.943657539	6.040108495	6.998465707	6.556658887	6.818131333	6.263460104	5.594772538	6.153735558	5.713912919
LCGL54	4.70811616	4.940173195	4.810379828	6.501787924	6.418474833	6.605489916	6.457869159	5.56149323	5.56149323	5.56149323	5.56149323	5.56149323	5.56149323	5.56149323	5.56149323	5.56149323	5.56149323	5.56149323
SLC16A10	4.968464931	8.070778054	4.962538411	4.905449795	5.016139459	7.379949442	4.974063279	5.95635873	7.169578321	6.241811945	5.708300468	4.990878011	8.027221816	6.135840726	6.091893805	6.135779916	5.773372092	7.830709567
KBTB06	6.683679319	5.105955033	5.290843318	5.483531179	5.635432333	5.400105552	5.344263022	5.982269111	6.005404561	6.043072626	5.601754542	6.470025962	5.392939509	5.273677709	5.963510589	5.900237478	6.434503373	5.945352629
H0XD1	6.204791694	5.094880407	5.094880407	5.132899606	5.172492854	5.595979701	6.508826338	6.466251706	6.348557965	6.29438654	6.555973753	5.500632698	6.236828348	5.102893211	5.938852953	5.936845152	5.20743623	5.925404399
FMN1	6.111588663	5.857353881	5.860332248	5.720361412	5.944108576	5.947244928	5.929836837	5.85859405	6.888051949	5.826351949	5.830646884	5.938571884	5.931032509	5.984498964	6.406691818	5.759664658	5.783190778	6.75233717
SOCS7	5.467789816	5.066262413	5.704838695	5.896650823	5.492006907	5.708819757	6.384980815	6.712206417	6.082495961	5.021606417	5.80479546	6.040080147	6.666157891	6.860053829	6.285992016	6.134186636	5.963116619	5.648909229
STK1A	5.328160916	5.906071187	6.739238605	5.59704429	5.897783673	6.479064174	5.935124234	6.330683414	5.072704694	6.281939564	5.80141727	5.221643571	5.629645434	5.2272223	6.069516317	5.922864033	5.858389333	5.997136771
FXR	6.559011771	5.588984651	6.29762857	6.093419385	5.142937577	5.150112725	5.149321806	5.921247629	6.107840202	6.054563114	6.85304948	6.68329631	5.14734222	6.34737309	6.26564681	6.934822803	5.854302612	6.200705625
IGF1R	5.81977077	7.015304826	5.785750597	5.853015562	5.293952122	5.157833787	5.360289166	6.147115413	6.555385176	6.818434473	6.084833018	5.323021029	5.625515183	5.471716415	6.150836741	5.741101276	6.461755227	5.998545447
ZBT26	5.968619127	5.080636367	6.490636367	5.080636367	6.286206327	6.639474451	5.22954256	5.822435973	5.824890599	5.816890599	6.803094676	6.092762281	5.099501988	6.231160606	6.231160606	6.762328329	6.186993444	6.602714107
CNTNAP1	6.167745093	6.197171151	5.633167481	6.342116397	5.928466203	5.960005511	5.627139227	6.271987363	5.848063714	6.219697675	5.898677265	5.92228836	6.611365597	5.789206935	6.010416175	5.855328306	6.240253194	5.882170665
ARIH205	5.541645993	5.620394597	6.130264011	5.989200251	5.437796227	5.989200251	5.12526572	5.878051084	5.877864558	5.877758219	6.240219822	6.501573754	5.966495913	5.776886821	6.104604922	6.104604922	6.031166108	5.928847709
GARNL3	5.12088656	5.191972097	5.191972097	5.500091778	6.105740222	5.200974218	6.584252488	5.991683344	5.93052612	5.931721996	5.49586813	6.382669366	6.869342717	5.917101047	6.015275841	6.170791419	5.861713866	5.760266354
KCTD17	6.153989676	6.111674865	6.164058552	5.944569714	6.084105865	6.8989718545	5.669991846	6.109726604	5.929296047	6.270802085	5.92219053	5.8057727	5.939582808	6.399143116	5.08715743	6.348349016	5.914879967	5.444623493
HMG83	5.325107339	6.631112557	5.473112037	6.172641333	5.081112111	5.090513321	6.666632244	6.270802085	5.92219053	5.8057727	5.939582808	6.399143116	5.08715743	6.348349016	5.914879967	5.444623493	5.7308748	6.028335527
ITGA11	5.740594391	5.403017617	5.403017617	5.403017617	5.403017617	5.403017617	5.403017617	5.403017617	5.403017617	5.403017617	5.403017617	5.403017617	5.403017617	5.403017617	5.403017617	5.403017617	5.403017617	5.403017617
FAM21B	5.748395538	5.748395538	5.443175184	5.463123338	5.248093944	5.925195457	5.32775976	6.264347924	5.264569752	5.935884379	5.413718821	5.379661631	6.713108634	5.918479858	6.621141937	5.645361014	6.232460119	5.928847709
APOLD1	6.065079736	5.658966774	5.646228263	5.649831494	5.672566164	6.43010713	5.722698955	6.382081769	5.903447667	5.961271427	5.742468891	5.932555776	5.667996284	6.435245788	6.53252416	6.41063912	6.118192544	5.898363333
KIF6	6.355259320	5.839313457	5.428270247	5.642830922	6.403147886	5.710682026	6.403147886	6.064285898	6.057901959	5.860047636	6.646860484	6.717309349	5.975161534	5.905774568	5.820592823	5.820592823	5.820592823	5.820592823
SLC35E2	5.846077501	6.10663468	5.891305502	5.801158163	6.011389255	5.799318952	5.899104171	6.329279763	5.854204121	6.226699009	5.95116392	5.929112105	5.783513413	5.905584664	6.107762724	5.989714155	5.98734146	5.764729247
PDGFA	5.731292516	5.698974007	5.936281576	5.880134909	5.919725074	5.840567363	6.15370002	5.882362565	6.079931552	5.898051213	5.991539956	5.76322422	6.091849038	5.912447565	5.941544143	5.767008618		
RAB23	5.049432781	6.257255688	5.644881344	5.03618075	5.944091119	6.11208325	6.695909336	6.206862548	6.015382717	5.148717799	6.320353836	5.565641665	5.407348147	5.033464344	5.06512513	5.465565598	6.112129289	5.884447897
TRAF3	6.025986785	5.709822867	5.709822867	5.709822867	5.709822867	5.709822867	5.709822867	5.709822867	5.709822867	5.709822867	5.709822867	5.709822867	5.709822867	5.709822867	5.709822867	5.709822867	5.709822867	5.709822867
TNIP1A1	6.107776127	6.301507724	5.084150825	5.084150825	5.084150825	5.084150825	5.084150825	5.084150825	5.084150825	5.084150825	5.084150825	5.084150825	5.084150825	5.084150825	5.084150825	5.084150825	5.084150825	5.084150825
KCTD2	6.363564404	5.70963155	5.456667701	5.741627904	5.76407597	5.51132046	6.538271408	6.06101823	6.51177298	6.102623915	6.098318565	5.344277946	5.196383156	5.544068763	6.302078793	6.102236007	6.085273035	5.643404038
HLPD4	5.686410420	5.785580061	6.051651961	5.385076594	5.910749232	6.131400821	6.251183904	6.066096743	5.836874958	5.986818476	6.097868182	6.252527053	6.204220253	5.436223505	5.761085277	5.828512885	5.704835128	5.9048190762
UZAF2	5.663026984	5.64922173	6.283672099	5.905524556	5.898689799	6.051542384	5.733084722	6.067691241	5.869778348	6.164330418	5.934785161	5.917320511	5.675173854	5.701438185	6.025032087	6.028160689	6.203595005	5.81342238
ILK3	5.899751254	5.922892818	5.698229531	5.723990442	5.200674272	5.954608125	6.320230372	5.942188906	6.094754995	5.757575969	5.576544173	5.520242142	5.399792415	6.218726644	6.054726843	6.173505566		
LMLN	5.737197463	5.375151463	5.439865771	5.337497079	6.031117571	5.992296119	6.25725835	6.133060744	5.057226503	6.360272477	5.613130945	5.909257619	5.939946814	5.91380262	6.488697367	6.661294817	5.418271939	5.844873781
NAPS4	5.795482628	6.382027788	5.935870996	5.419679606	5.868216332	5.71601538	5.261989584	6.57940										

RP1-34B2.0J	6.49840159	5.27450903	6.34467486	6.06276649	5.50127212	5.95653816	5.21147566	5.86311729	5.72919701	5.76100253	6.06987361	5.77646237	5.65442967	6.394438716	5.98040769	5.5461359	5.876734536	6.012288637
RS12	5.307561303	5.31686531	5.32118608	5.34860196	5.372152712	5.379216306	5.37255737	5.238129244	5.30086874	5.595165016	6.418192022	5.31226416	5.295973297	5.487939571	6.162006083	6.835422678	6.450875912	6.571752751
PS1K	6.27820196	5.24590139	5.836516822	5.576305878	6.203251524	6.68001082	5.791686724	5.948388173	5.8969286	6.5993042197	5.80879027	6.136580838	5.48323637	6.299015281	5.786100296	5.806038125	6.111469171	5.779705529
RP5K4	5.742634633	6.419051479	5.20466929	6.285366922	5.79586658	5.89619066	6.22217967	6.087402152	5.715154645	5.679374797	5.84492947	5.94579488	5.206132542	5.888652596	5.956204249	4.755445195	5.96672034	6.29119141
ZNF42	5.67116843	6.25026175	5.81827118	5.71872158	5.8396072	5.17714353	5.17714353	5.77482798	5.801293751	5.801293751	5.801293751	5.214007751	6.278846603	5.402132443	5.19845839	6.457552865	6.07862329	5.78812929
SMAD4	4.962771024	5.189466881	6.490346181	6.490346181	6.490346181	6.490346181	6.490346181	6.490346181	6.490346181	6.490346181	6.490346181	6.490346181	6.490346181	6.490346181	6.490346181	6.490346181	6.490346181	6.490346181
MAGIX	5.114904904	5.792224194	5.11708212	5.109557566	5.878530963	6.356283321	6.08478521	6.010616792	6.017806112	5.844232979	5.644776103	6.103693683	5.12079136	6.602907846	6.050415685	5.540573616	5.50117535	5.97586215
RP5D2	6.48437534	6.612503878	5.612503878	5.612503878	5.612503878	5.612503878	5.612503878	5.612503878	5.612503878	5.612503878	5.612503878	5.612503878	5.612503878	5.612503878	5.612503878	5.612503878	5.612503878	5.612503878
MARK4	5.884458054	6.590261007	6.063681841	5.712403663	5.59976979	5.540238259	5.572272795	5.991962249	5.669731581	6.04038072	6.006050589	5.74268528	5.839290281	6.100240552	5.947836686	5.761633672	5.935203287	5.790980512
RP5D1	5.6148376871	5.398226926	5.591277988	5.591277988	5.591277988	5.591277988	5.591277988	5.591277988	5.591277988	5.591277988	5.591277988	5.591277988	5.591277988	5.591277988	5.591277988	5.591277988	5.591277988	5.591277988
WRD66	5.662780075	5.662780075	5.662780075	5.662780075	5.662780075	5.662780075	5.662780075	5.662780075	5.662780075	5.662780075	5.662780075	5.662780075	5.662780075	5.662780075	5.662780075	5.662780075	5.662780075	5.662780075
RP11-727F11	6.021649997	5.988478953	5.436754704	5.148172311	5.413446036	5.213643981	5.725112091	5.863069597	5.858417021	6.038215221	6.038215221	6.038215221	6.038215221	6.038215221	6.038215221	6.038215221	6.038215221	6.038215221
TRIM16	6.607471101	5.87148957	5.87148957	6.120132049	6.206202922	5.764048208	6.078771456	6.00039884	5.756154942	5.829013056	5.75423991	5.97733086	8.97881368	6.39401691	5.848675188	6.02143763	5.885625141	5.857574542
SYNM	6.158776974	6.134639927	5.926600923	5.733704515	6.363247223	5.834872724	5.819457278	6.295766214	5.818944465	6.032939644	6.004427481	5.840587637	5.987437721	7.352122023	5.405055074	5.744073598	5.794378644	5.888799553
RP5K11	5.280248333	5.869517619	5.969377215	5.969377215	5.969377215	5.969377215	5.969377215	5.969377215	5.969377215	5.969377215	5.969377215	5.969377215	5.969377215	5.969377215	5.969377215	5.969377215	5.969377215	5.969377215
LARC57B	6.475215804	6.111214673	5.922245627	6.833341171	5.142392449	5.105987101	6.115954988	5.76955335	5.76955335	6.124149676	5.69678674	5.147540046	6.501521148	5.154182756	5.759019343	5.789725947	6.502052434	6.632351335
COF66	5.962577734	5.637133584	6.085085907	6.085085907	6.085085907	6.085085907	6.085085907	6.085085907	6.085085907	6.085085907	6.085085907	6.085085907	6.085085907	6.085085907	6.085085907	6.085085907	6.085085907	6.085085907
LTC45	5.701067382	6.026991121	5.676879752	5.28711135	6.483949683	6.256001705	6.061653826	5.802230108	6.044786304	5.802230108	6.044786304	5.250918709	7.009490986	6.116250272	5.826631381	5.758634488	5.607271265	5.75810273
CIST7	5.742338164	5.921389129	6.250071466	5.921389129	5.921389129	5.921389129	5.921389129	5.921389129	5.921389129	5.921389129	5.921389129	5.921389129	5.921389129	5.921389129	5.921389129	5.921389129	5.921389129	5.921389129
GRP75-ASB3	7.012068612	5.683222754	6.023979728	5.8171584	5.922072966	5.567394403	5.91240165	5.567394403	5.567394403	5.567394403	5.567394403	5.567394403	5.567394403	5.567394403	5.567394403	5.567394403	5.567394403	5.567394403
SDL2	6.534721158	6.191378843	5.861089894	5.1122929	5.870945756	5.12393552	6.16878141	5.698673622	5.753525168	5.986861881	5.513617024	5.120858994	5.46736764	6.392989879	5.910442432	5.838784791	5.524589889	5.960230631
PO616	5.680237732	5.145192044	5.3292232	5.634727232	5.764783941	5.148576612	6.1709054	6.010867632	5.923697734	5.77870494	6.010867632	5.923697734	5.146474327	5.918760574	6.585239958	5.698416477	6.005284589	5.958703403
ARHF626	5.818393996	5.750152145	5.800278902	5.750152145	5.750152145	5.750152145	5.750152145	5.750152145	5.750152145	5.750152145	5.750152145	5.750152145	5.750152145	5.750152145	5.750152145	5.750152145	5.750152145	5.750152145
CPV3AS	5.700560474	5.626254737	5.7128214642	5.659336061	5.600239931	5.76890081	5.550247391	7.150837145	5.655995719	6.9571826619	6.014457708	5.827880129	5.867012834	5.545988814	6.298529755	5.828418387	6.187526446	6.88976014
CHR8-CP18	5.648055205	5.453649683	5.486480034	5.933650639	6.156451388	5.466262061	6.079691178	5.90697207	5.605136972	6.22952660	5.620335958	5.459592562	5.505712511	5.513835649	6.204923273	5.786970468	6.437723884	6.101780197
HRP5	5.719130027	5.581931927	5.581931927	5.581931927	5.581931927	5.581931927	5.581931927	5.581931927	5.581931927	5.581931927	5.581931927	5.581931927	5.581931927	5.581931927	5.581931927	5.581931927	5.581931927	5.581931927
CP5E-PB2.1	4.912193056	5.243272226	5.640211456	5.243272226	5.243272226	5.243272226	5.243272226	5.243272226	5.243272226	5.243272226	5.243272226	5.243272226	5.243272226	5.243272226	5.243272226	5.243272226	5.243272226	5.243272226
SLC35G1	6.334414953	5.11643141	5.735324013	5.617688976	6.714617905	5.130046872	5.07598117	5.631550633	5.548267424	5.830662029	5.825750447	6.094183975	5.782623225	5.142331096	5.860085399	6.037084186	6.510745949	7.151919576
LPN3	5.76845204	5.99192505	5.830774955	5.830774955	5.830774955	5.830774955	5.830774955	5.830774955	5.830774955	5.830774955	5.830774955	5.830774955	5.830774955	5.830774955	5.830774955	5.830774955	5.830774955	5.830774955
EK1	6.072806523	5.703728804	5.218002974	5.938791619	5.37844702	5.238264036	5.269711348	5.815048098	5.872007211	6.031558559	5.950796026	6.01232746	5.702104416	5.124770879	6.109065669	6.23695937	6.117707965	5.542606698
JRK	5.889682657	6.583586779	5.601802873	5.461646407	6.60589024	5.378473935	5.50047753	6.094647686	5.800247283	6.031558559	5.950796026	6.01232746	5.702104416	5.124770879	6.109065669	6.23695937	6.117707965	5.542606698
IFP1	5.603957651	5.94039624	6.31595617	5.109756914	6.533483147	6.260140992	5.1386021454	6.272725677	5.613646789	5.833833376	5.849921513	7.028422585	5.216895225	5.156511052	6.207963887	5.268697349	5.873544076	5.747204524
LRC56	5.78015184	5.589619895	5.854441123	5.31849038	5.584441123	5.31849038	5.925145526	5.79781441	5.673780953	5.79781441	5.673780953	5.79781441	5.673780953	5.79781441	5.673780953	5.79781441	5.673780953	5.79781441
ABCC2	5.785284868	5.944894181	5.662326	5.944894181	5.74566341	5.60221666	5.637777889	5.77088547	5.77088547	5.77088547	5.77088547	5.77088547	5.77088547	5.77088547	5.77088547	5.77088547	5.77088547	5.77088547
ZNF852	6.152440329	5.349139767	5.390845195	6.227272722	5.983483888	5.83465467	5.385421759	5.648254208	5.971641275	5.624328384	5.881548306	5.847534713	5.404119435	5.505468286	5.682238875	6.309705362	6.835468228	6.1092062
FL13G	5.73958151	5.831394608	5.62648182	5.779102712	5.288360527	5.839484482	5.839484482	5.839484482	5.839484482	5.839484482	5.839484482	5.839484482	5.839484482	5.839484482	5.839484482	5.839484482	5.839484482	5.839484482
THB53	6.026790329	5.697324811	5.236701474	6.507376642	5.034030108	5.743962733	5.91918169	6.308282295	5.729236014	5.867861399	5.680954575	5.377299599	5.041142975	6.059890325	5.814303	5.902477844	5.761471403	6.189683278
FAM131A	5.641347995	5.761977013	5.244351774	5.337830833	5.144439314	5.404677908	5.892721559	5.892721559	5.892721559	5.892721559	5.892721559	5.892721559	5.892721559	5.892721559	5.892721559	5.892721559	5.892721559	5.892721559
TLL1	5.311391723	6.93976031	5.55760392	6.488489349	5.091312615	6.371630072	5.7850494	5.645792518	6.62534145	5.515980096	6.08294289	6.10538886	5.096553266	5.103020098	6.051462969	6.040749905	5.890754495	6.524900764
ZNF571	5.70401269	5.139389195	7.68578668	5.935239485	5.07869203	5.271694501	5.433921784	5.864927	6.075749518	5.670759592	5.670759592	5.670759592	5.670759592	5.670759592	5.670759592	5.670759592	5.670759592	5.670759592
ZNF42	5.37324685	5.922140397	5.922140397	5.922140397	5.922140397	5.922140397	5.922140397	5.922140397	5.922140397	5.922140397	5.922140397	5.922140397	5.922140397	5.922140397	5.922140397	5.922140397	5.922140397	5.922140397
ACD11	5.73477004	5.399721868	5.690483778	5.86883927	5.789125362	5.66405159	5											

KIRD1	5.943610792	5.754340206	5.76185169	5.815017166	5.700634579	5.598956552	5.665818766	6.449657285	5.899303866	6.062662208	5.800196826	5.789995133	5.795215098	5.978079859	6.613640007	5.742080914	6.047787988	5.761026181
PRELUD2	5.702901595	5.961240013	5.032376903	6.757826591	5.601466116	5.037312827	6.658488373	5.945755159	5.356522935	6.021466271	6.379132357	5.364841884	5.504350714	5.878984853	5.706036556	5.263988101	6.359090307	5.499656581
ATPV1C2	5.496956581	5.831785662	5.207400108	6.086495175	6.259843195	5.427531673	5.679917637	5.964084759	6.601718208	5.882981121	5.568701064	5.268849771	5.76767169	5.652030083	5.800388225	6.11575754	5.780370746	5.444399813
ZCH4	5.444399813	6.358739109	5.722192005	5.457279617	5.81197363	6.252836692	5.531892087	6.144620739	6.169655293	5.797324476	5.685242603	5.504004141	5.780857605	6.575703665	5.97705254	5.60200502	5.851653159	5.7639304
PNL	5.305110567	5.274451766	5.011764004	5.274451766	5.126648067	6.393381714	6.750973861	6.364566469	6.364566469	6.364566469	6.068561743	5.297802152	5.378526344	5.515807554	5.300079442	5.378526344	5.08628892	5.659157193
WTP	5.658715937	5.710431501	5.576724078	5.678202651	5.589310271	5.799402194	6.045680824	5.588447373	5.588447373	5.588447373	5.588447373	5.588447373	5.588447373	5.588447373	5.588447373	5.588447373	5.588447373	5.588447373
KCTD11	5.405262073	5.828366636	5.1754789	5.165355758	5.346117028	6.39649718	5.571681962	5.876018615	5.732680051	6.052077492	5.607566538	5.63832317	5.931086378	5.992268423	5.879124218	5.64770948	5.739726823	5.344710573
DCX	6.823612675	5.89460523	5.847400523	5.69420165	5.712110429	5.887086752	5.903908496	5.686258518	5.686258518	5.686258518	5.793064827	5.916833419	5.903235697	5.975466113	5.673558464	5.77501976	5.75971875	5.599991276
RAB33A	5.94351149	6.451408281	5.311602797	5.508219633	6.051519538	5.119784848	6.154969036	5.578584893	5.728877957	5.461219972	5.83971193	6.005307073	5.594013214	5.512196804	5.964705677	6.216078985	5.651252163	5.294504818
CDADC1	6.159156587	5.859429388	5.862842286	5.58242658	5.23733642	5.920854172	5.202854172	5.703707175	5.402938411	5.61242758	5.993076348	6.08596634	6.385942134	5.14340075	5.723688263	5.763140577	5.82123802	5.79811104
TBC1D31	6.296405327	5.959998376	5.307621549	5.576320292	6.448434201	6.436295224	5.316277222	5.604544454	6.050279618	5.723570018	5.55437707	5.31295925	6.241939476	5.32205924	5.599902986	6.03610193	5.92471607	5.837447759
TNSA9E1	6.289967319	5.416629	5.436644771	6.632861308	6.150001686	5.690586656	5.84908431	5.71749128	6.114857042	5.581469041	5.682126791	5.078878865	5.885099905	5.084183067	5.459121539	5.633244997	5.52932677	5.52960109
GM1	6.106381538	5.973602469	5.327900987	5.973602469	5.327900987	5.51253096	5.336879151	5.46351074	6.183022066	5.113232771	5.329793701	5.926004848	5.633169315	6.317241661	5.67819773	5.592584716	5.53286966	
EMP2	5.369939081	6.436788606	5.557014999	5.462833639	5.413907145	5.44784138	5.764635015	5.363605205	5.793271165	5.66133346	6.257913912	6.273421074	7.088086832	6.772625758	5.59747518	5.89921316	7.138544842	
HST1H1D	5.73549811	5.837952074	5.513509816	5.415340952	5.505896265	5.55733895	5.268012633	5.920902546	5.886205296	5.672840055	5.67719047	6.024947952	5.235000203	5.430572857	5.897911993	5.840380661	5.834034354	5.65140374
ZNF54	5.495092285	6.008716843	5.721787672	5.352317145	5.243236119	5.960337185	6.259607038	5.721898066	6.071208695	5.983040016	5.83717144	5.559302767	5.322840059	5.251906699	6.100183591	5.830753764	5.726206929	5.853183692
TSP0A1	5.542915186	5.359348633	5.140050772	5.602979415	5.099893848	5.96037185	5.105939284	5.509781677	5.910407608	5.786013564	6.839094851	5.472098416	5.156591821	5.767089061	5.66673113	5.463699419	6.143818959	
CZ2H46	6.295621306	5.99664662	5.803600381	5.296513214	5.525766219	5.290190598	5.381252767	5.842038804	5.634192267	6.102889209	5.110090555	5.276461802	6.605948215	6.015249716	6.152022718	6.03495169	5.682959794	
PTPN3	5.372018069	5.506540049	5.490411026	5.906549911	5.689487945	5.504717817	5.431032029	5.924238386	5.439338171	5.991696393	5.858236904	5.370824333	6.615103858	5.954751517	5.933095979	5.97032854	6.107451479	6.44948024
GF11	6.146271158	6.494361675	5.229305015	5.986974523	5.729394575	5.253754557	5.21120876	5.973961881	5.7636708	5.7636708	6.24863119	5.68603328	5.747410448	5.566158889	5.7815647	5.80132697	5.746004093	6.282007274
HFPL2	6.3972120514	5.31474703	5.136925598	5.060939175	5.849675037	5.29319099	5.953124677	5.620730353	5.955379733	5.95452864	6.110083897	5.07477407	5.086582137	5.951362641	5.69546352	5.99026792	6.16236006	
ZNF37	6.50201375	5.026146995	5.279118437	6.478955449	5.150533169	5.186262425	5.030261702	6.07503185	6.07503185	6.07503185	5.628116739	5.178871706	5.326627956	5.301431683	6.28400505	6.472411574	6.221588229	5.912595902
MOK	6.120284409	5.275264209	5.207059059	5.6318785712	5.211447934	5.19257549	5.283408921	6.03744957	6.206958234	5.859597598	5.725493824	5.374572923	5.142153776	6.423776163	5.803397324	5.736963829	6.03448761	6.19438661
GIN1	5.664847896	5.014959655	5.225600164	5.00897904	5.773098361	6.008895284	5.764823099	6.265955646	5.836935117	5.764837161	5.14978706	6.88601131	6.172379149	6.000182873	5.627132506	5.801826520	5.866206996	
ZRY2	6.966447753	5.022251112	5.022168404	5.712809877	5.744557614	5.87302163	5.353360171	5.770278422	5.622793379	5.96010447	5.024131718	5.024258632	5.740377775	5.515636483	6.210252398	5.757898783	5.767133007	
SPRN	5.417002053	6.437002053	6.437002053	6.437002053	6.437002053	6.437002053	6.437002053	6.437002053	6.437002053	6.437002053	6.437002053	6.437002053	6.437002053	6.437002053	6.437002053	6.437002053	6.437002053	6.437002053
ARMXC	5.988017443	5.694716956	5.705406922	5.965898192	6.293567875	5.255249812	5.804916421	5.755543953	5.087595939	5.823911019	5.90676201	5.41287575	5.09323233	5.094538831	6.036912787	5.780000295	5.71441749	6.098168845
MDM1	5.452109665	5.387193082	5.28529876	5.387193082	5.28529876	5.387193082	5.28529876	5.387193082	5.28529876	5.387193082	5.28529876	5.387193082	5.28529876	5.387193082	5.28529876	5.387193082	5.28529876	5.387193082
CD2D	5.86563623	5.86563623	5.86563623	5.86563623	5.86563623	5.86563623	5.86563623	5.86563623	5.86563623	5.86563623	5.86563623	5.86563623	5.86563623	5.86563623	5.86563623	5.86563623	5.86563623	5.86563623
ETV5	6.113949384	5.542495049	5.872406068	5.119129164	6.073777819	5.055857512	5.071434344	5.767767947	5.445216629	5.76053117	6.02538057	5.33985315	6.09893164	5.09348572	5.946652043	5.549706431	5.857945377	5.98678136
CIRL	5.657809946	5.853217555	5.150735177	6.420689777	6.501471484	5.1042956	5.842298681	5.85231377	5.842298681	5.85231377	5.71726861	5.869370232	6.027645698	5.63569269	5.923422021	5.534197693	5.79448515	5.9813232
ATXN7L2	5.288469224	6.713633303	4.981835331	6.049929686	4.978625226	4.98733609	6.804169094	5.85231377	5.849982468	5.74957498	5.526196403	5.279056738	5.108184146	4.909570296	5.762342025	5.737525922	5.9025711	6.148329519
PGBD4	6.494888271	6.112644648	5.312962345	6.241464942	5.312962345	5.312962345	6.241464942	5.312962345	5.312962345	5.312962345	5.312962345	5.312962345	5.312962345	5.312962345	5.312962345	5.312962345	5.312962345	5.312962345
CEP164	5.104553409	5.573993764	5.104553409	5.573993764	5.104553409	5.573993764	5.104553409	5.573993764	5.104553409	5.573993764	5.104553409	5.573993764	5.104553409	5.573993764	5.104553409	5.573993764	5.104553409	5.573993764
MDM1	5.452109665	5.387193082	5.28529876	5.387193082	5.28529876	5.387193082	5.28529876	5.387193082	5.28529876	5.387193082	5.28529876	5.387193082	5.28529876	5.387193082	5.28529876	5.387193082	5.28529876	5.387193082
ZHBJR	5.839061486	5.703466794	6.03466794	5.839061486	5.703466794	6.03466794	5.839061486	5.703466794	6.03466794	5.839061486	5.703466794	6.03466794	5.839061486	5.703466794	6.03466794	5.839061486	5.703466794	6.03466794
TC21A	4.884435575	4.880786631	4.880696552	5.695524543	4.877965428	4.885378538	6.156824528	6.210165406	5.195394321	5.813751601	5.91155744	4.882407949	6.307774877	4.888142386	5.821651357	6.01483547	6.11928621	6.211448596
ADCY9	5.517231581	5.20682986	5.813477006	5.17298865	5.165554192	5.19203731	5.237160257	5.88893061	6.215916833	5.899059761	5.800059952	5.887585601	5.895602094	5.858569876	5.708307273	5.198688749	5.585676621	5.83120552
IRS1	5.891246832	5.599793987	5.271753278	6.132745309	5.769423863	5.231195878	5.977199702	5.807367104	5.739535903	5.73997965	5.660628911	5.390216709	5.636621059	5.398836327	5.780469317	5.922828494	5.421800543	5.735410673
ZNF880	6.158264075	6.007786323	5.32999168	5.32999168	5.32999168	5.32999168	5.32999168	5.32999168	5.32999168	5.32999168	5.32999168	5.32999168	5.32999168	5.32999168	5.32999168	5.32999168	5.32999168	5.32999168
TBC1D8	5.59597026	5.40663648	5.471792939	6.674382712	5.77367706	5.090274653	5.889924661	5.732094115	5.772082642	5.936059642	5.84183346	5.458615205	5.92529342	5.239405507	5.641895795	5.939679859	6.057039953	
TMEM159	5.750555958	6.436091753	6.06753839	6.1024447	5.344183734	5.631020429	6.08670267	5.964398953	5.90529052	5.79672289	5.677798666	5.388828125	6.046259394	5.514982537	5.705139203	5.673410394	5.572299881	

ZWFS58	5.62107214	5.334999527	5.403692926	7.246875813	5.153138974	5.28046421	5.548131464	6.09029294	6.17095175	5.63201175	5.859054637	5.256273567	6.00841299	5.195919076	5.784359062	6.322596598	5.775222678	5.83913771
CENPU	5.041879923	6.536486695	6.118021216	5.96627686	5.025715766	6.243511007	5.03706078	5.749822142	5.692061754	5.309599885	5.724624395	6.42407075	5.041581241	5.045834465	5.715267751	5.483343989	5.474972912	5.133176149
SWAGP	5.62982955	5.658106357	5.726364897	5.509605296	5.238326967	5.907244742	6.038246296	5.682487749	5.980057975	5.92647699	5.92647699	5.192883565	6.11478509	5.913971453	5.318264077	5.29866245	6.249334946	
CACN42D4	6.182474268	6.516569749	5.032846864	6.138721	5.030265656	5.256789953	6.128818792	5.406616702	5.520296128	5.765867363	5.941648207	5.034485228	6.454368416	5.939899452	5.533305305	5.670138543	5.736415326	6.346190147
TRM356	5.138218987	5.191168461	5.477378208	5.107562435	5.12561436	5.2891702	5.617840236	6.342757763	5.65679698	6.224771268	5.787548084	4.99377315	6.781259484	6.481402236	5.94285854	5.92658918	6.072461653	5.837396005
SCAF1	5.402854282	5.828394926	5.808004727	5.588542592	6.052735553	5.611779623	5.520031409	5.865407366	5.661518584	5.816622556	5.798047958	5.084852253	5.838097682	5.846879906	5.705426117	5.76592327	5.60837201	5.612712753
TMEM173	6.193184476	5.150524967	5.149036988	6.699119351	6.249418887	5.159380808	5.328296999	5.769017661	6.634530245	5.582000152	6.478346612	6.273847285	6.80112551	5.21579496	5.632517985	5.702441056	5.52591916	5.701023785
EMLI	5.409932073	5.845638776	5.145213381	6.14030777	5.718753212	6.279577474	6.184432553	5.640625931	6.067019363	5.67922888	5.335792366	6.136451263	5.277564101	5.770130093	5.782912400	5.572355018	5.645081037	
RASGR4	5.736888313	5.687005289	5.675218284	5.61410355	5.71335897	5.756256682	5.738457187	5.569681483	5.794045851	5.606124975	5.683541349	5.736879186	5.800075142	5.838178547	5.555358418	5.65170396	5.765083075	5.721213983
ARL11	5.211763003	5.521459723	5.173936151	5.764961036	5.97966739	5.98537691	5.567520259	5.667458229	5.98537691	5.567458229	5.610300064	6.019986871	5.204569748	5.888944516	5.387108574	5.701315688	5.149923133	
IFR181	6.825792976	5.5105708952	6.038964225	6.403432098	5.051646157	5.103875322	5.636895168	5.67640672	5.337091068	5.343706492	5.762619285	5.337091068	5.34511504	5.280446686	5.8392428	5.614838386	5.792555229	
SCUB1E	5.086762442	5.766087695	5.086762442	5.723206233	5.500889189	6.474476509	6.360970384	5.757013155	5.657944944	6.089676099	5.206438299	5.07097298	5.087139039	5.67174134	5.930478001	5.738226906	5.792150393	
DSE	6.120190271	6.41547705	6.41547705	6.755203143	5.66680304	5.307479533	5.477112463	5.891389866	5.72801794	6.002483996	5.418162422	5.6537609	5.304232824	5.539673423	5.899656957	5.508620022	5.477863831	
RHSD	5.774198592	6.362585573	5.10665059	5.24949233	5.86796784	5.053439168	5.052802094	5.557890881	6.025163273	5.916573437	5.356425966	5.857667702	6.282518707	6.080633313	5.55947328	5.742499214	5.452967703	5.650977299
RHOD	5.894151829	5.968379934	5.968379934	5.5481389	5.671080586	5.637104407	5.539985458	5.839310475	5.918204909	5.678203400	5.890520999	5.719983014	6.298412251	5.19714399	5.467081599	5.32887411	5.59751236	6.102083474
NECTN2	4.984683717	5.737718309	5.58403492	5.631640937	4.8827352	5.869979689	6.134312123	5.60855241	5.716572861	5.356471005	5.67266292	5.80065777	5.581545719	6.021289399	6.24796448	5.83967059	5.435342071	7.80533498
RP11-4682E	5.465620122	5.386459302	5.367482094	5.367482094	5.834021598	5.417940047	5.708022771	6.265453394	5.708022771	6.497446727	5.970749213	6.681104919	5.800736633	5.615658011	5.46021623	6.107332869	6.274203856	5.166777348
ELOV16	6.311343713	5.065197399	5.050767477	5.405067612	4.894272147	4.909226398	4.895330375	6.327692052	5.66417718	5.725485989	5.668471936	4.912324907	6.843879346	4.975601952	5.980917355	6.198168801	6.035766142	5.852391126
UBRN10	6.363724906	5.185155551	5.588126265	5.009102922	5.22014518	5.016800283	5.708740121	5.573054008	6.363724906	5.185155551	5.588126265	5.009102922	5.22014518	5.016800283	5.708740121	5.573054008	6.363724906	5.185155551
RNF12	6.4861061792	7.083396781	5.379793941	6.86997991	5.66086264	5.003021292	6.001398549	5.524909615	5.90430715	5.386941916	5.67616555	5.079281705	6.363809263	6.342257373	5.554004273	5.873509471	5.55807977	5.521953484
SLC4A5	5.642014796	5.742173175	5.386254059	5.63102444	5.577015804	5.498049507	6.065373339	6.079739364	5.642014796	5.742173175	5.386254059	5.63102444	5.577015804	5.498049507	6.065373339	6.079739364	5.642014796	5.742173175
FCGP	4.738681327	4.727657587	4.727438007	5.272905999	5.639036044	5.615014312	6.641697316	6.027070648	5.741285438	5.741285438	6.027070648	5.741285438	5.741285438	6.027070648	5.741285438	6.027070648	5.741285438	5.741285438
RP11-11M1M	5.270568408	5.210080569	5.741572722	5.56579434	6.287843327	5.219379643	5.364065292	6.313660061	5.879361327	6.10269994	6.099798595	5.454464371	6.638971277	5.265112037	6.58790841	5.778258843	6.39114493	5.43039198
ZWNF46	5.720835129	5.610405665	5.728607029	5.305430924	5.579020759	5.858664201	5.133155325	5.628035594	6.099767142	6.030241646	5.92787567	5.580934494	5.438553014	6.618481607	5.486401781	6.03894273	5.412102586	
TMN	6.170894474	5.68666453	6.527298528	5.627305101	5.029478	5.800478497	5.034703414	5.585206122	5.646306292	5.671887792	5.618887792	5.694486429	5.033081824	5.95205798	5.149101739	5.864941326	5.446402635	5.784066473
MAPK319	5.748067382	5.888310757	5.700066643	5.675861559	6.035241934	5.636271856	5.654735648	5.434273319	5.959585361	5.630730924	5.630730924	5.630730924	5.630730924	5.630730924	5.630730924	5.630730924	5.630730924	5.630730924
ZWNF48	6.795026154	5.106135055	6.2612026	5.211990379	4.984978355	5.949520956	5.72466119	5.548660661	5.935728519	5.936229838	5.503332327	5.083956122	5.105421168	5.492237539	5.652968972	5.744447741	6.109956117	
ZWNF12A	6.382524638	5.154209878	5.685234538	5.154209878	5.685234538	5.154209878	5.685234538	5.154209878	5.685234538	5.154209878	5.685234538	5.154209878	5.685234538	5.154209878	5.685234538	5.154209878	5.685234538	5.154209878
ANKLE1	6.071070422	5.408622356	5.375021081	5.988467993	5.80030522	5.37243929	5.806313651	5.566527582	5.845495414	5.936821192	5.677050327	5.483593622	5.483593622	5.483593622	5.483593622	5.483593622	5.483593622	5.483593622
MICAL2	6.276923129	5.306892796	4.914894004	6.430421185	6.432849357	5.262893557	4.947050372	6.013720026	5.658217295	6.103187723	5.689388191	6.151896542	4.944302682	4.951851747	6.37879561	6.090013767	5.682872918	7.196557964
HE51	5.270006488	6.838030378	6.553729701	6.95428765	6.090639327	7.054821642	6.018296682	5.671418304	6.698893954	5.671418304	6.698893954	5.671418304	6.698893954	5.671418304	6.698893954	5.671418304	6.698893954	5.671418304
RP11-16682	6.109904878	5.73142574	5.646967524	5.808876735	6.626251165	5.299483609	5.50673968	5.962877566	5.657676567	6.446894706	5.711315388	6.603101161	5.44609768	5.589496161	6.713168479	5.877728555	6.390927229	5.611256602
USP35	6.061881372	5.908297322	5.358957783	5.508450047	5.188677218	5.508396539	6.064816533	5.951885241	5.508396539	6.064816533	5.951885241	5.508396539	6.064816533	5.951885241	5.508396539	6.064816533	5.951885241	5.508396539
SULT1B1	5.523981493	5.364048335	5.763427056	5.811392211	5.429345696	5.464352536	5.398323543	6.341719818	5.404388784	6.221538142	5.899425156	5.405169789	6.02961222	5.573012268	6.102086996	5.8564467	5.711762797	7.075480225
AC0C3	6.342594849	5.389964746	5.389964746	5.389964746	5.389964746	5.389964746	5.389964746	5.389964746	5.389964746	5.389964746	5.389964746	5.389964746	5.389964746	5.389964746	5.389964746	5.389964746	5.389964746	5.389964746
CHIT1	6.654816093	6.654816093	6.654816093	6.654816093	6.654816093	6.654816093	6.654816093	6.654816093	6.654816093	6.654816093	6.654816093	6.654816093	6.654816093	6.654816093	6.654816093	6.654816093	6.654816093	6.654816093
PCDCL2	5.88206895	4.982605717	4.982551356	6.003804702	6.164851467	4.98609064	6.073346666	5.679148805	5.941411809	5.74951176	5.62232771	4.983842931	5.881373981	4.988183649	5.659988955	5.30608654	5.623736972	5.70517792
ZNF155	6.327214112	4.930583642	4.930510852	6.03941137	6.75944606	6.052357438	6.281357852	5.660218198	6.052357438	6.281357852	5.660218198	6.052357438	6.281357852	5.660218198	6.052357438	6.281357852	5.660218198	6.052357438
RASSF3	5.599071366	5.284908385	5.808091952	5.938974393	5.422632609	5.868586401	5.728551872	5.717551774	5.717551774	5.717551774	5.32142538	5.431325298	6.270852611	5.837523337	6.118406134	5.550525202	5.865581118	5.64566312
CTD-307407	5.728718917	6.086890737	5.688646357	6.086890737	5.688646357	6.086890737	5.688646357	6.086890737	5.688646357	6.086890737	5.688646357	6.086890737	5.688646357	6.086890737	5.688646357	6.086890737	5.688646357	6.086890737
BIVM-ERCC5	5.318341643	5.275360305	5.67566232	5.665316049	5.797394676	6.695176546	5.323513644	5.318341643	5.275360305	5.67566232	5.665316049	5.797394676	6.695176546	5.323513644	5.318341643	5.275360305	5.67566232	5.665316049
EPHK1	5.441571762	5.951437747	5.806648627	5.886401297	6.070627399	6.220911386	5.961904152	5.667264316	5.497527367	5.450457393								

KCTD9	5.310349133	5.014498083	5.286312595	6.161357253	5.012181232	6.153178433	5.322106406	5.55676305	5.217604352	5.619232122	5.715480109	5.790593927	6.093793737	5.161647556	5.901640438	5.649538943	6.037629885	6.437327449
ZNF517	5.563484935	5.754653234	5.603485366	5.178775062	5.124207754	6.158807265	5.49799728	5.704928876	5.849811178	5.743117803	5.509023363	5.471842976	5.228590806	6.067140458	5.322733301	5.505863962	5.711285815	6.106453704
HST13H3E	5.982673151	5.189226265	5.038242324	5.699100062	5.242879551	5.200771542	5.073961172	5.809269333	5.667526743	5.695332156	5.514551888	5.121705582	5.052666028	6.753889947	5.600260678	5.897457438	5.858216921	5.584859805
TRIM14	6.166438488	5.311021866	5.649251581	5.164942156	6.089152674	5.226470223	5.707788272	5.935109689	5.908862966	5.481134347	5.55872887	6.412735456	5.38625077	5.513892566	5.888019614	6.180337193	5.399674637	6.641569475
CDY39	5.723457115	5.731278933	5.631568733	5.620367618	5.414547778	5.232076218	5.251076318	5.703160994	5.686223919	5.686223919	5.693408219	5.21537041	5.295180475	5.305954401	5.320176793	5.272456167	5.351599383	5.487166244
Clorf167	5.637766021	5.620742257	5.640552429	5.256051524	5.20345266	6.204170270	5.256754812	5.737236198	5.870246631	5.737236198	5.817651017	5.485294316	5.292465508	5.257006617	5.642039036	5.600922987	5.638872089	5.638872089
GPX3	6.041132323	5.758190652	5.809396717	4.908472583	4.913644040	5.626963004	4.919265018	5.96324990	5.707758484	5.567409246	5.607178551	6.541765998	4.917771148	4.922874902	6.34163915	5.63885806	5.029907635	5.517490831
GDOP91	5.320529294	5.142172924	5.334449733	5.692520259	5.1752102095	5.506046804	5.752702301	5.544293752	5.564671552	5.685171358	5.82496286	6.006683215	5.750935552	5.437128652	5.778417038	5.735939982	5.518966446	5.518966446
MMT	5.622806743	5.433513538	5.234597633	5.239291881	5.474039944	5.057462242	5.958874828	5.679435805	5.601695449	5.903283401	5.66617056	5.159929721	5.638434286	5.195766544	5.627169012	5.971584862	5.922732328	5.705756545
MTCP1	5.598456697	5.828286063	5.852626263	5.774705739	5.234691165	6.337403263	6.088796765	5.359774503	5.665863328	5.364842181	5.452644467	6.062181311	5.919279809	5.244622446	5.433906052	5.789380345	5.952103334	5.291214981
ZNF9323	5.797384147	5.300235618	5.624464023	5.694439945	5.527708068	5.457731096	5.635110673	5.461331971	6.399504435	5.965103663	5.780796115	5.267152714	5.530098227	5.598639227	5.335594927	5.888032192	5.866733371	5.935594927
LSM129	5.935357538	5.265378688	5.754069911	6.232421943	5.870291282	5.988089491	5.501617567	5.47006271	5.17772814	5.963958647	5.780080653	6.38326126	5.983826256	5.257012815	5.753191611	5.465812765	5.508865514	5.294826469
SNK3	5.29913689	5.049554001	5.658590513	5.047623256	5.032010904	6.488724648	5.884654563	5.798328004	5.640649405	5.619879873	5.050926143	5.490329993	5.990205688	5.620935976	6.004137887	6.128838481	5.620935976	6.004137887
CTCL	5.664088791	5.624864372	5.592800029	5.567543491	5.528498254	5.614921979	5.618913334	5.897195131	5.369342749	5.850357525	5.959699254	5.629054437	5.697644	5.745536372	5.714065855	6.639514952	5.811103353	5.985363434
NOO1	5.181931966	5.003540113	5.003502953	6.279325262	5.139938884	5.818112976	6.415388157	5.868678088	5.859330793	5.805873082	5.955387517	5.370063617	5.179376268	5.008803468	5.870074394	5.534672483	5.644363403	5.644363403
SP1B	5.122127647	5.28107982	5.07611528	5.243455651	5.140023158	6.627382823	5.173490435	6.04077603	5.714892461	5.749306404	5.972994929	5.083248643	5.730950642	6.002112032	6.421631195	5.18202386	5.620232554	5.620232554
HEAT8E	5.256548602	5.359486136	6.230539807	5.057035065	5.166125721	5.799239161	5.551563238	5.774640497	5.654880161	5.18381506	5.603847057	5.009155151	5.739808334	5.753212059	5.993068606	5.51879851	5.51879851	5.51879851
IC1A	5.028635408	5.081504365	5.081504365	6.590772417	5.105748621	6.517320084	4.983989083	5.743257912	6.048646631	5.529352089	5.856840743	6.009700587	5.071309109	5.098206084	6.029637011	5.716010551	5.312919324	6.454895911
ARL15	6.175831818	5.234593957	4.910275918	4.915233954	5.175912748	4.921166403	5.522053697	6.052702498	5.789474646	5.41974088	5.914061375	4.960967268	6.319470952	5.098087691	5.752915065	5.72190905	5.72190905	5.72190905
SCN9A	5.326031552	6.100649341	5.011648809	5.669757415	5.241155276	5.272232712	6.210776713	6.435522819	5.986218159	5.73737881	5.67722562	5.01316113	6.459501031	5.739047174	5.816370609	5.065658382	5.766971931	5.888150452
CD302	5.826878815	5.363485056	5.423874833	5.396752071	5.396752071	5.396752071	5.664401747	5.664401747	5.964487058	5.964487058	5.964487058	5.964487058	5.964487058	5.964487058	5.964487058	5.964487058	5.964487058	5.964487058
RNASEK-CL7	5.532570139	5.679497172	5.377308947	5.342559071	5.87464649	6.524531757	5.609215679	6.543992349	5.638831872	5.569486049	5.674712565	5.449298061	5.991461319	5.991461319	5.816679121	5.876142714	5.578119876	5.980679741
AC142212.1	5.691417529	5.191938125	5.550903787	5.74781003	6.093821375	5.37307885	6.011974276	5.313721175	6.070996121	5.25912461	5.4685203	6.082800439	5.704200407	6.144534106	5.476116697	6.04840245	5.341651231	5.275483664
DDX31	5.004969727	6.629689724	5.103174693	5.65675032	5.487153049	5.465694723	5.314614159	5.975705648	5.795910144	5.860889007	5.618888155	5.616956713	5.003154701	5.7202491	5.826123408	6.528002722	6.138482879	5.97050944
CEP112	5.618211016	5.187245604	6.040267969	5.08244871	5.183136889	5.111065678	5.722770254	5.611701704	5.59459947	5.814276217	5.100116436	5.151008392	5.129981157	5.735404987	5.880781853	5.582761743	5.486801774	5.486801774
SAMD0A	5.304719113	5.205224094	5.284519448	5.241790191	5.197615219	5.155725068	5.854171079	5.798598444	5.626290614	5.905815008	5.90683086	5.256668463	5.738489316	5.570229447	5.791079738	5.607582959	5.510403966	5.801221274
TMEM2	5.205913011	4.995235452	4.995242888	6.151922081	5.203631566	5.441215094	6.399092096	6.350970763	5.904720851	5.865069187	5.92772836	4.997207214	5.428058034	5.453133016	6.766787572	5.501272725	5.277619959	5.567789281
CDY39	5.450766021	5.450766021	5.450766021	5.450766021	5.450766021	5.450766021	5.450766021	5.450766021	5.450766021	5.450766021	5.450766021	5.450766021	5.450766021	5.450766021	5.450766021	5.450766021	5.450766021	5.450766021
CBX8	5.904620915	5.172461154	5.974740093	5.868328680	5.127461375	5.521351518	5.693207636	5.606580871	5.847684648	5.847684648	5.847684648	5.847684648	5.847684648	5.847684648	5.847684648	5.847684648	5.847684648	5.847684648
KNB1	5.566358814	5.460205902	5.57889347	5.553459497	5.63475847	5.507112882	6.650381096	6.159438541	5.534530212	6.060763582	5.509457331	5.604183704	5.519531196	5.662025313	5.779735282	6.618546988	5.855872097	5.62390647
FNK3	5.805107947	5.69427302	5.842848578	5.514766849	5.514766849	5.514766849	5.514766849	5.514766849	5.514766849	5.514766849	5.514766849	5.514766849	5.514766849	5.514766849	5.514766849	5.514766849	5.514766849	5.514766849
FO38577.0A	5.857265406	5.693553327	5.58703478	5.415627472	5.758341072	5.911714529	5.489090874	5.575562006	5.424430555	6.62800198	5.528329865	5.461852156	5.955781758	5.629345753	5.407539484	5.411036703	5.699880278	5.635469042
TMEM39B	5.50793067	5.41054646	5.809185934	5.41054646	5.50793067	5.50793067	5.50793067	5.50793067	5.50793067	5.50793067	5.50793067	5.50793067	5.50793067	5.50793067	5.50793067	5.50793067	5.50793067	5.50793067
HGF	4.867018308	4.863431256	4.863431256	4.863431256	4.863431256	4.863431256	4.863431256	4.863431256	4.863431256	4.863431256	4.863431256	4.863431256	4.863431256	4.863431256	4.863431256	4.863431256	4.863431256	4.863431256
RP15-54PB	5.151819468	5.151819468	5.151819468	5.151819468	5.151819468	5.151819468	5.151819468	5.151819468	5.151819468	5.151819468	5.151819468	5.151819468	5.151819468	5.151819468	5.151819468	5.151819468	5.151819468	5.151819468
TRIM22	5.42819601	5.42819601	5.42819601	5.42819601	5.42819601	5.42819601	5.42819601	5.42819601	5.42819601	5.42819601	5.42819601	5.42819601	5.42819601	5.42819601	5.42819601	5.42819601	5.42819601	5.42819601
APB81	5.705427590	4.895956859	4.895903755	4.889703822	6.242868975	4.893605155	4.898756638	5.481155034	5.597032088	5.63321348	5.76088661	5.880495475	4.897247166	6.090026758	5.75704817	5.609931004	5.547104547	5.738045965
KU1K1	5.250157009	5.638059821	5.135045799	5.638059821	5.135045799	5.638059821	5.135045799	5.638059821	5.135045799	5.638059821	5.135045799	5.638059821	5.135045799	5.638059821	5.135045799	5.638059821	5.135045799	5.638059821
METAP1D	5.625213652	5.873749559	4.928055964	4.92233154	5.018223101	5.559039885	5.10745899	5.584409438	5.92980953	5.79412552	5.60153811	6.224203386	4.929297421	5.603754733	5.461939984	6.620482793	5.676812134	5.645633916
RP11-717K1	5.326103657	5.326103657	5.326103657	5.326103657	5.326103657	5.326103657	5.326103657	5.326103657	5.326103657	5.326103657	5.326103657	5.326103657	5.326103657	5.326103657	5.326103657	5.326103657	5.326103657	5.326103657
PK3CD	5.327709032	5.607158719	5.357199598	5.607158719	5.357199598	5.607158719	5.357199598	5.607158719	5.357199598	5.607158719	5.357199598	5.607158719	5.357199598	5.607158719	5.357199598	5.607158719	5.357199598	5.607158719
C7orf25	6.277275012	5.48546028	5.6219676															

DNAL4	5.908756217	5.422115451	5.76975081	5.24545858	5.91846692	5.726581926	6.00501098	5.35993235	5.803577668	5.93720905	5.212587813	5.77934474	5.042402685	5.62531012	5.550814353	5.572267622	5.471749385	5.468515659
TMEM79	6.065888408	5.839037568	5.209848548	5.565231003	5.23099172	5.03956899	5.534349811	5.620055949	5.159732662	5.57061085	5.55780013	5.25866027	5.030038049	5.922187578	5.576641362	5.484013271	5.567969731	5.561921551
Cbor44-SGK	5.56760176	5.596276514	5.20274032	5.730653953	5.508392683	5.092524862	5.092524862	5.092524862	5.092524862	5.092524862	5.092524862	5.092524862	5.092524862	5.092524862	5.092524862	5.092524862	5.092524862	5.092524862
KIR3D31	5.570323506	5.523709283	5.533743721	5.468169385	5.496221912	5.523081421	5.557952459	5.997833728	6.031048966	5.883856993	5.645041033	5.558963655	5.538616681	5.588939844	5.480921414	5.661526144	6.152272506	5.604249464
TKH1	5.72779859	5.354709591	5.354709591	5.354709591	5.354709591	5.354709591	5.354709591	5.354709591	5.354709591	5.354709591	5.354709591	5.354709591	5.354709591	5.354709591	5.354709591	5.354709591	5.354709591	5.354709591
TPX2	5.760065563	5.773930311	4.806504868	5.668687228	5.125971902	4.932124136	4.932124136	4.932124136	4.932124136	4.932124136	4.932124136	4.932124136	4.932124136	4.932124136	4.932124136	4.932124136	4.932124136	4.932124136
ZCPC41	5.718465009	4.976878981	5.778047178	5.563475797	4.975257588	6.056745666	5.602243202	5.15885776	5.607457705	5.53074161	5.548338557	5.343499965	4.977895443	5.382117109	5.465056598	5.632722835	5.098613040	5.657213444
ANPEP	3.714269948	4.639090904	5.929010032	5.712309496	5.019570583	5.469342337	3.748274866	5.469342337	6.021088497	5.00841311	5.687268773	5.726999616	5.93075584	3.791069344	6.088167852	6.862625988	5.614848352	5.691944263
RNF219	4.9033419	5.00540357	6.873576431	5.207909441	5.546717511	4.902440437	6.210285934	5.154511945	5.861350639	5.620460481	5.716994023	5.930252029	4.901515293	5.723290365	5.527180798	5.563846566	5.767145365	5.34583051
COLL1A	5.553896478	5.504818365	5.504818365	5.504818365	5.504818365	5.504818365	5.504818365	5.504818365	5.504818365	5.504818365	5.504818365	5.504818365	5.504818365	5.504818365	5.504818365	5.504818365	5.504818365	5.504818365
ZNF252	5.56103344	5.524602164	5.524602164	5.524602164	5.524602164	5.524602164	5.524602164	5.524602164	5.524602164	5.524602164	5.524602164	5.524602164	5.524602164	5.524602164	5.524602164	5.524602164	5.524602164	5.524602164
MARVELD1	5.512582054	6.001795755	5.233781191	6.146561543	5.770087324	5.009380545	4.384701703	5.497404196	5.697535928	5.659690121	5.566457527	5.54207067	6.156913703	5.031791827	5.744061672	5.58318526	5.456780284	5.444262628
ENPP2	4.870714153	6.628740601	4.806031401	4.26808904	4.806031401	4.806031401	4.806031401	4.806031401	4.806031401	4.806031401	4.806031401	4.806031401	4.806031401	4.806031401	4.806031401	4.806031401	4.806031401	4.806031401
PWP2	5.53696898	5.581782255	5.238257822	5.889418759	5.087107173	5.426588236	6.237570215	5.68992444	5.484033952	5.954523149	5.46293003	5.386884897	5.35128305	5.063518485	5.65574707	6.69568543	5.604721366	5.32869505
TEN1-CD33	5.65437529	5.60353772	5.60353772	5.60353772	5.60353772	5.60353772	5.60353772	5.60353772	5.60353772	5.60353772	5.60353772	5.60353772	5.60353772	5.60353772	5.60353772	5.60353772	5.60353772	5.60353772
PTCH2	5.556326594	5.773000166	5.809854145	5.631447475	5.381065575	5.56427943	5.50304632	5.547672949	5.297722261	5.47640848	5.399034668	5.781626016	5.524042754	5.560280228	5.358258883	5.330513844	5.812605159	5.647633644
LRR3C7A3	6.252366095	5.501132476	5.39135661	5.531069085	5.568384986	5.551562033	5.530440976	5.647251169	5.547526364	5.656836588	5.63887596	5.425201034	5.572992832	5.466570664	5.843741894	5.843741894	5.843741894	5.843741894
NIPAL4	5.083995671	4.979843883	5.63303046	4.955340624	5.10043242	5.16047526	5.16047526	5.16047526	5.16047526	5.16047526	5.16047526	5.16047526	5.16047526	5.16047526	5.16047526	5.16047526	5.16047526	5.16047526
ZGRF1	5.267352126	5.060766673	5.110728662	5.111776572	5.98659783	5.130731233	6.225735614	5.470489525	5.663712977	5.676835287	5.676835287	5.676835287	5.676835287	5.676835287	5.676835287	5.676835287	5.676835287	5.676835287
FAH2	5.514673616	5.938590428	5.914178216	5.463489745	5.710789406	5.636383712	5.897460561	5.232388997	6.020740575	5.232388997	5.232388997	5.232388997	5.232388997	5.232388997	5.232388997	5.232388997	5.232388997	5.232388997
NORN2	5.575560974	5.015530234	5.509974717	5.844532612	5.02660354	5.02660354	5.02660354	5.02660354	5.02660354	5.02660354	5.02660354	5.02660354	5.02660354	5.02660354	5.02660354	5.02660354	5.02660354	5.02660354
GRP35	4.938729976	5.083636946	4.718204854	5.083636946	4.897849591	4.855032418	6.064386401	5.680517249	4.479503627	5.881082111	5.27536504	5.607193194	4.29311855	5.923252537	6.004023207	5.39340464	5.612120749	5.612120749
PHYH1	4.992376297	5.054149008	5.041282867	5.108748028	5.99333518	5.2858607	5.092364782	5.965287916	5.558322297	5.531107876	5.24830441	6.070932527	5.580291774	6.391423614	5.776324281	6.604934857	5.67169775	5.239035723
ZCWPW1	5.555313978	5.808365364	5.967795032	5.106494004	5.002590027	4.974886943	5.841390539	5.563230082	5.372273494	5.67594841	5.449956446	4.972966873	5.474686823	6.07420454	5.64293653	5.818407037	5.52609429	5.432437098
ADO	5.942393959	5.101125944	5.626627469	5.562667249	5.613811309	5.66027366	5.132597567	5.559342823	5.941528368	5.567016466	5.51576865	6.13134424	5.188141195	5.016036934	5.319454523	5.552673075	5.513331478	5.462839631
SICZARG	5.493919053	5.568307084	5.559708626	5.935901216	5.379576389	5.633820812	5.461419094	5.519441977	5.603761198	5.602370421	5.617985273	5.515753076	5.839219566	5.438188645	5.403762328	5.56689328	5.306843255	5.306843255
RHEB1	4.927461958	4.924571281	5.688924297	5.937984935	5.513086409	4.928423329	6.244919965	5.652510288	5.683957437	5.40522635	5.879040386	5.410127218	6.643615014	4.930751334	5.730027584	5.388381781	5.565829949	5.674821531
FKBP	5.657360866	6.165713846	5.657360866	5.657360866	5.657360866	5.657360866	5.657360866	5.657360866	5.657360866	5.657360866	5.657360866	5.657360866	5.657360866	5.657360866	5.657360866	5.657360866	5.657360866	5.657360866
PCAR	5.706661958	5.502777009	5.47081691	5.502777009	5.433139453	5.541697795	5.677085773	5.427885168	5.366402711	5.55301723	5.613955242	5.110212815	5.687521118	5.546528065	5.475622688	5.52068669	5.622018892	5.47329744
BSB12	4.917929876	6.784123886	6.887453725	6.053303307	6.871973456	6.09858388	4.81101596	5.347959751	5.91728391	5.25294203	5.795743572	5.228947446	4.915329777	5.142269303	5.210005951	5.68448058	5.920593210	5.39270906
NIPAL1	5.56235311	4.90011894	5.692568301	6.034802607	5.710626047	4.989474464	5.501140065	6.043802608	5.758132191	5.49180404	6.963532088	4.897783274	5.711647468	5.690154361	5.243154316	5.512520218	5.468512159	5.468512159
GGCAT	5.120057789	5.227865314	6.192087673	5.403230435	5.399302301	5.472608943	5.535121353	5.404216597	5.602593991	5.864537711	6.262350011	6.215224985	5.21389125	5.128582012	5.449683333	5.39404883	5.901170004	5.784182287
ZNF788	5.469390902	5.829238185	5.405003708	5.321352182	5.377511354	5.444232809	5.465801704	5.613227824	5.413813366	5.613227824	5.613227824	5.613227824	5.613227824	5.613227824	5.613227824	5.613227824	5.613227824	5.613227824
KIAA1324L	6.348850958	4.921988855	4.921988855	4.921988855	4.921988855	4.921988855	4.921988855	4.921988855	4.921988855	4.921988855	4.921988855	4.921988855	4.921988855	4.921988855	4.921988855	4.921988855	4.921988855	4.921988855
KATNAL1	5.00331796	5.008417264	5.008417264	5.008417264	5.008417264	5.008417264	5.008417264	5.008417264	5.008417264	5.008417264	5.008417264	5.008417264	5.008417264	5.008417264	5.008417264	5.008417264	5.008417264	5.008417264
SCN11	5.246804054	5.848606034	5.848606034	5.848606034	5.848606034	5.848606034	5.848606034	5.848606034	5.848606034	5.848606034	5.848606034	5.848606034	5.848606034	5.848606034	5.848606034	5.848606034	5.848606034	5.848606034
TMEM212	5.558765204	5.351739406	5.226577807	5.460471884	5.51988824	5.21176506	5.346859828	6.10186551	5.523379391	6.09217261	5.59261941	5.302999332	5.54231794	5.54340848	5.877370881	5.821146264	5.173931415	5.67889185
KCNMB3	5.097682406	5.084845602	5.084845602	5.084845602	5.084845602	5.084845602	5.084845602	5.084845602	5.084845602	5.084845602	5.084845602	5.084845602	5.084845602	5.084845602	5.084845602	5.084845602	5.084845602	5.084845602
WDTCL	5.613875551	5.438856925	5.603939207	5.514250325	5.89745914	5.531507309	5.646082898	5.540004949	5.422309994	5.646917372	5.531252097	5.475764305	5.442240189	5.934341124	5.477497679	5.415094142	5.743862892	5.531309928
RP11-437B1	5.276829098	5.178219399	5.665466945	5.625065517	5.37261624	5.30854093	5.184291558	5.495887276	5.868032709	5.179341173	5.544956288	6.058510049	5.986168401	5.750509841	5.924100054	5.924100054	5.924100054	5.924100054
BCAS1	6.239093608	5.108960828	5.183756796	5.110741192	5.097557461	5.178416532	5.15173906	5.6048959	5.312416099	5.580888648	5.481309969	6.077518128	5.024357357	5.17490516	6.23882405	6.138320486	5.665647809	6.47709884
EMP2A	5.406282962	5.045962832	6.227857966	4.99800725	5.617952061	5.641212562	4.9583599											

KIAA1456	5.395491898	5.478765257	5.597389775	5.3919342	5.377826592	5.412148536	5.390937142	5.512982879	5.303845451	5.545127341	5.464656644	5.427550237	5.657427752	5.527448937	5.472573522	5.537832242	5.54343219	6.631858393
USP13	5.055242914	5.666715708	5.181102362	4.937641876	5.627906955	4.973120544	4.973210544	5.867952442	6.696859421	5.648061898	5.877594978	5.504642821	4.985675589	5.396404718	5.550202565	5.878681563	5.306223257	5.44156317
MARS2	5.811468297	5.429430598	5.182743209	5.182743209	5.629126281	4.952804384	5.253536408	5.309515294	5.823834747	5.295450427	5.856729399	5.520736281	5.47300921	4.960556428	5.813216826	5.461893203	5.320911977	5.472535169
CHB12	5.670888038	5.090484515	5.012825501	5.811954987	5.507576912	5.756251845	5.798737343	5.501860153	5.442036953	5.379546884	5.370624161	5.736220776	5.820548917	5.044166961	5.554864894	5.233827874	5.06545789	5.301912616
ZNF42	6.016642765	5.134154687	5.134154687	5.134154687	5.271490966	5.237765993	5.451765993	5.507166333	5.389929632	5.389929632	5.309101322	5.432476248	5.112347544	5.124905215	5.724961239	5.156816123	5.112347544	5.68406325
HD118155	6.007329987	5.440192597	5.440192597	5.440192597	5.466002116	5.544548868	5.781730144	5.650754563	5.464403052	5.478548523	5.570651695	5.471453742	5.195721696	5.400727321	5.516460543	5.550995201	5.480772382	5.476478373
SPIRE1	5.384814559	5.752858775	4.862539603	4.857095507	5.160240607	4.865578803	5.221079299	5.53120525	5.569596603	5.670293100	5.628464680	4.86364873	4.934217181	5.670593721	5.973982179	5.617993244	5.460512020	5.476273068
FFGT	5.315580934	5.091709664	5.962552343	5.063286908	6.122313449	5.8800172	5.471805759	5.620216531	5.569241367	5.490348029	5.923820313	4.975188606	5.183482529	5.749805874	5.464547349	5.425578662	5.345751234	5.519616901
RP11-529K1	5.46895314	5.744274001	5.669322732	5.534252391	5.501482166	5.825595946	5.165627698	5.419039049	5.552820682	5.186665233	5.46064911	5.809057474	5.827991468	5.150449771	5.512966708	5.419438278	5.139406076	5.184163238
ZNF428	5.819252318	5.217238055	5.194585676	5.141073967	5.141073967	5.137862893	5.963944914	5.853891249	5.853891249	5.853891249	5.166857458	6.303516082	5.248710009	5.540805082	5.431802941	5.591912808	5.591912808	5.59248553
WDR76	5.223092863	5.130919825	5.223092863	5.130919825	5.130919825	5.182979164	5.995107591	5.368884642	5.773204225	5.512614734	5.047732625	5.135150628	5.130839142	5.684482171	5.844336201	5.438282828	5.483789739	5.746932011
MMX	5.965514678	5.760991178	6.482118648	6.482118648	6.482118648	6.678947259	5.20927406	5.103960969	5.404432613	5.52616202	5.625598598	4.881654399	4.881761977	4.872202523	5.187940446	5.203081928	5.144665885	5.521033537
SPTA13	5.471589444	5.435092518	4.980748225	5.28585777	5.174813058	5.42834854	5.85304212	5.588451683	5.68990939	5.48030963	5.140333594	5.304529244	6.09144469	5.636141788	5.579163946	5.429174048		
AURKA	5.3939717	5.222351351	4.936626754	5.055306359	5.441330283	5.129700208	5.590936721	5.382955345	5.47964198	5.31040517	5.479388816	6.119410806	5.911097306	4.924042326	5.917806038	5.534426532	5.170700744	5.198363313
UTY	5.9820147	5.566305709	5.688518515	5.456305709	4.637457095	4.695953403	5.778036467	5.533785487	5.440267422	5.461043881	5.569789785	4.696206388	4.690282024	4.782643401	5.537707702	5.520841581	4.788889566	5.47544436
HACE1	5.346165043	5.096822523	4.928481011	5.003846947	5.483279654	5.101460309	5.496792655	5.653464485	5.619486008	5.479681347	5.435579476	5.01593925	5.00202125	5.051699212	5.860756169	5.576395062	5.786673546	5.904299462
NHSL2	5.410703557	5.493813768	5.4370081861	5.312057942	5.441100787	5.618688822	5.571197725	5.454979625	5.571197725	5.396726267	5.519795414	5.374231745	5.506604533	5.45693508	5.481126767	5.52876451	5.591957296	5.383798743
NOO1	5.437043905	5.373668023	5.488025378	5.419220481	5.419220481	5.375481347	5.466725779	5.617740055	5.294382196	5.568294038	5.423011106	5.423510216	5.519854083	5.46558812	5.600988215	5.503453009	5.563392966	5.545543132
BLOC15-TK	5.694454377	5.387006963	5.544417107	5.425613635	5.491014441	6.015201961	5.49443566	5.351776475	5.441937236	5.581171602	5.542920008	5.371676682	5.887784985	5.597485522	5.334278827	5.348122229	5.533532345	5.298369567
BBS	5.594029007	5.640353663	5.170940007	5.21852563	5.512865563	5.51202982	5.325748359	5.671152345	5.464298005	5.547447396	5.444252536	5.38505319	6.052625296	5.28347653	5.568182381	5.473696276	5.46967896	5.466727437
BRD7	5.839640797	5.376170831	4.900162701	5.323420516	5.012951999	4.924571845	5.454892485	6.020255505	5.448272989	5.37574728	6.481565454	4.926153172	4.932500419	5.685105367	5.541879926	5.300573053	6.359212195	
FZD1	5.112951161	4.913456029	4.905052348	4.905052348	5.20864203	5.594451198	5.694855214	5.429934266	5.365457339	5.686878803	5.731440811	5.649114909	6.702971733	6.130822572	5.472436406	5.347940343	6.114073019	
RUNX1T1	5.638852715	5.533295111	5.552176303	5.419605603	5.49751984	4.907548523	5.624654649	5.371408099	5.394678024	5.403365698	5.511218952	4.905573554	4.905647018	5.683623485	4.466251973	5.204213106	5.462070398	5.438549959
ITGA1	5.043894874	5.473023473	5.190012577	5.574853847	5.119965304	5.350020232	5.427466347	5.119965304	5.427466347	5.501223183	5.804645985	5.4824562	5.256771278	5.513364579	5.478675702	6.184486175	5.478675702	6.184486175
SEMA7	5.545796291	5.245852968	5.495152497	5.245852968	4.865161659	4.865161659	4.873260629	6.167232548	5.29524738	5.409002503	6.147042132	5.239076117	5.49134059	4.875685233	7.020459498	4.196626734	5.92729118	5.608540593
ARGAP11A	5.439421925	5.373087636	5.374506063	5.292490043	5.361954065	5.114374723	5.410588969	5.942548082	5.284431871	5.542364958	5.971296247	5.459862115	5.816053739	5.478222966	6.112028386	5.922706367	5.344290863	6.15959411
PGAP1	5.413188641	5.378986487	5.436661154	5.28187915	5.154865525	5.394930469	5.402952562	6.902947971	5.532544929	5.894885729	5.62277847	5.434731054	5.41089476	5.6102788	6.459484422	6.64947711	6.023008063	7.08381348
PHF2	5.615409956	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636
RPGRP1L	5.858838863	5.177659005	5.177659005	5.177659005	5.177659005	5.177659005	5.177659005	5.177659005	5.177659005	5.177659005	5.177659005	5.177659005	5.177659005	5.177659005	5.177659005	5.177659005	5.177659005	5.177659005
RPL11-10801	5.364995108	5.386824721	5.95570546	5.24152146	5.186039343	5.372334943	6.07880474	5.642840356	5.520321372	5.39731434	5.420766128	5.713647938	5.479798701	5.165695621	5.451280351	5.445162385	5.507564322	5.285414305
LIRA1	5.690563831	5.532309498	5.532309498	5.532309498	5.532309498	5.532309498	5.532309498	5.532309498	5.532309498	5.532309498	5.532309498	5.532309498	5.532309498	5.532309498	5.532309498	5.532309498	5.532309498	5.532309498
DAPK2	5.64819611	5.283104832	5.239267233	5.287297968	5.515794594	5.139830702	5.396484048	5.756162199	5.495864802	5.620898065	5.248347998	5.284097328	5.232148603	5.329176996	6.448962817	5.78704749	6.237457268	7.111224699
PAK9L	5.81558744	5.030108816	5.030108816	5.030108816	5.030108816	5.030108816	5.030108816	5.030108816	5.030108816	5.030108816	5.030108816	5.030108816	5.030108816	5.030108816	5.030108816	5.030108816	5.030108816	5.030108816
AC00950.1	5.990366364	5.582155236	5.264292871	5.586888241	5.369826251	5.568814455	5.525894227	5.140285971	5.368866456	5.686616028	5.801189561	6.3702033	5.305432199	5.249847605	5.520827371	5.276410359	5.300342577	
PHF202	5.615409956	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636	5.480238636
SHIM1	5.610236369	5.414517085	5.414517085	5.414517085	5.414517085	5.414517085	5.414517085	5.414517085	5.414517085	5.414517085	5.414517085	5.414517085	5.414517085	5.414517085	5.414517085	5.414517085	5.414517085	5.414517085
ZNF441	5.056193641	4.905919739	5.556320791	4.988812593	5.331864569	5.024938812	5.915099561	5.689448383	5.878607059	5.698811967	6.177356002	4.849645684	5.05694958	5.095096864	5.932027102	6.789515326	6.572507117	5.793471317
CA13	5.205814315	5.118914515	5.118914515	5.118914515	5.118914515	5.118914515	5.118914515	5.118914515	5.118914515	5.118914515	5.118914515	5.118914515	5.118914515	5.118914515	5.118914515	5.118914515	5.118914515	5.118914515
PPP1R3F	5.31266337	5.469772172	4.911794122	6.441528589	5.444717784	6.107963049	4.918705933	5.527176522	5.440622834	5.615613018	5.49277272	5.243302714	4.94859817	5.60553621	5.173037794	5.62768824	5.25237114	5.302221693
KLF5	4.983665785	6.373330466	5.287330466	5.582593151	5.005584384	5.926393269	5.061473059	5.325465391	5.673379323	5.620027202	5.52114334	5.678134469	5.476273133	5.063955361	5.047588086	5.195123748	5.6974627	5.041379458
ER12	5.24344126	5.322451696	5.322451696	5.183986621	5.4034888	5.788622227	3.565240943	5.761864415	5.614602106	5.57015242	5.676119965	5.225782655	5.105783222	5.36565302	5.464319343	5.593696302	5.676883642	5.940933115
CPY2E1	5.464647419	5.48937609	4.776651542	5.48937609	4.776651542	4.802736645	4.7											

MGSTZ	5.721228848	6.895667201	4.663282511	4.652212903	5.474691791	5.360960383	4.668317346	5.601303958	5.799864315	5.577598905	5.776285881	4.716784705	4.665656481	4.672954163	5.447766649	4.747734295	5.186006575	6.815825628
ADPRLH	5.480033233	5.989448011	7.511846839	5.00538055	6.406767407	5.012679778	4.847165891	5.254360348	5.894461218	5.171333476	5.484432568	5.39028223	4.839242333	4.896733554	5.455488053	6.139247712	5.543625212	5.296488356
HUA-DOA	5.334656435	5.30059094	5.426836158	5.28592985	5.3443301	5.073987917	5.440359696	6.047296375	5.21444417	5.53897242	5.284687876	5.349877624	5.451491245	5.439326937	5.985558384	5.363393568	5.456836295	5.585979769
DHRH	5.086403966	5.213667416	5.20378507	5.491142898	5.13467579	5.400411273	5.203242587	5.371721421	5.482327147	5.46719559	5.241360763	5.378142373	5.262792905	5.279174858	4.99332792	5.184720727	5.775449379	5.001019361
ENB3	5.493530433	5.395301433	5.405197434	5.491380661	5.24737745	5.37321388	5.281981527	5.648951915	5.512516564	5.967412373	5.241360763	5.733810081	5.261295788	5.476129578	5.476129578	5.476129578	5.476129578	5.476129578
ACD1346L1	5.2169917483	5.199910396	5.236884815	5.23085527	5.2114637	5.203582579	5.2114637	5.203582579	5.2114637	5.203582579	5.2114637	5.203582579	5.2114637	5.203582579	5.2114637	5.203582579	5.2114637	5.203582579
NIJDT1	5.049723236	5.562456106	5.340029978	5.517588704	5.174869114	5.006862503	5.371131767	5.417892645	5.315645612	5.546617122	5.383277151	5.210466113	5.686356323	5.499871879	5.43047762	5.204486628	5.43841067	5.526497240
FASN	5.609508888	5.523763549	5.406240878	5.237623165	5.392976227	5.40614088	5.324094616	5.40614088	5.324094616	5.40614088	5.324094616	5.40614088	5.324094616	5.40614088	5.324094616	5.40614088	5.324094616	5.40614088
SMCR8	5.062465632	5.32766589	5.18021967	5.438187994	5.07907669	5.083598391	5.07794431	5.81969089	5.544248391	5.680004232	5.821514446	5.575777335	5.06878731	5.116614356	5.470629396	5.358878368	5.81217672	5.531861673
PCDD11G2	5.737280897	4.796340639	5.282108977	4.796340639	5.282108977	4.796340639	5.282108977	4.796340639	5.282108977	4.796340639	5.282108977	4.796340639	5.282108977	4.796340639	5.282108977	4.796340639	5.282108977	4.796340639
WRD4	4.91037361	5.402335607	6.059096994	4.91037361	5.402335607	6.059096994	4.91037361	5.402335607	6.059096994	4.91037361	5.402335607	6.059096994	4.91037361	5.402335607	6.059096994	4.91037361	5.402335607	6.059096994
TCFS	5.676385784	5.138437953	5.27286203	6.093192553	5.179397992	4.964916987	5.666077264	5.265887171	5.193291783	5.653725089	5.67851118	5.518496073	5.811015922	5.400824699	5.071693266	5.283827588	5.451428505	5.451428505
KT012	5.04954619	5.071186971	5.47065761	5.45150525	5.016497473	5.03163577	5.660333	5.309597037	5.309597037	5.309597037	5.309597037	5.309597037	5.309597037	5.309597037	5.309597037	5.309597037	5.309597037	5.309597037
RCOR1	5.352680399	4.933301747	5.011947309	5.189148078	5.577948076	5.696916478	5.325103683	5.733120007	5.601096784	5.26586342	5.547518164	5.718883448	4.934287341	5.438540288	5.62788075	5.22263180	5.344393066	5.603485336
IL17R8	5.682662724	4.8287479	5.826540025	5.438274678	4.91075016	4.813485413	5.17397677	5.923870936	5.418678759	5.429240048	5.451928947	5.580292037	4.829785275	4.83134005	5.668752166	5.376028383	5.088740670	6.090520182
CRV81	5.737125958	5.802018041	5.253471793	6.090392406	5.696996911	6.127276294	5.887234073	5.428945936	5.226660404	5.324621137	5.647420871	5.634174896	5.033847174	5.09175173	5.306653194	5.282756617	5.361740831	5.29001487
FAM3A4	5.454425793	5.544275208	5.608306692	5.008184669	5.488113996	5.503232069	5.642163531	5.544273988	5.350297656	5.436754628	5.218360797	5.944898435	5.038188946	4.87052778	5.723083788	5.445141102	5.285180957	5.273188528
ZSWIM6	5.159947445	4.925396119	5.59651022	5.357085796	5.174254786	4.926989779	5.090347713	5.824827974	5.510214949	5.866662396	5.272213949	5.694347896	5.268909656	5.722213949	5.845568386	5.336303031	5.648414191	5.549115197
HCT20	4.872456515	4.837211746	6.472891038	6.077405343	4.834737518	4.841047817	5.363550894	5.969833795	5.655404084	5.655037186	5.655037186	5.655037186	5.655037186	5.655037186	5.655037186	5.655037186	5.655037186	5.655037186
CPB1	6.03281292	5.315416678	5.305928955	5.387968691	5.387968691	5.387968691	5.387968691	5.387968691	5.387968691	5.387968691	5.387968691	5.387968691	5.387968691	5.387968691	5.387968691	5.387968691	5.387968691	5.387968691
IRP18P1	5.239924984	5.574071369	5.451058003	5.355155053	5.124410746	5.265254084	5.435264084	5.487244416	5.487244416	5.487244416	5.487244416	5.487244416	5.487244416	5.487244416	5.487244416	5.487244416	5.487244416	5.487244416
PP1R31	5.761716043	5.093548839	5.408995407	5.093548839	5.408995407	5.093548839	5.408995407	5.093548839	5.408995407	5.093548839	5.408995407	5.093548839	5.408995407	5.093548839	5.408995407	5.093548839	5.408995407	5.093548839
FM04	5.445085174	6.052959713	5.953039945	4.975448376	5.808292767	4.82426767	4.82412434	5.429880409	5.387062798	5.344106823	5.033149152	6.313879568	5.06152385	4.827213294	5.297428121	5.680997701	5.429091598	4.876164315
ANGP16	5.722717957	5.011034727	5.527308778	5.719210147	5.05784585	5.886572416	5.34981897	5.544395761	5.42891875	5.65855334	5.01766877	6.00018706	5.072971538	5.399625113	5.574474079	5.380528248	5.564173404	5.564173404
TRIM59	5.347898045	5.270883948	5.74261901	5.034805447	5.53780286	6.06013042	5.02565647	5.693856246	5.68804513	5.774718147	5.134357976	5.13996072	5.235736671	5.325898341	5.286671114	5.66831842	5.480387569	5.480387569
EH03	5.492495487	6.534544127	4.825449487	6.610244843	5.348565525	4.829254973	5.872174028	5.86125773	5.872907711	5.872907711	5.872907711	5.872907711	5.872907711	5.872907711	5.872907711	5.872907711	5.872907711	5.872907711
TRMT104	5.01744968	4.901042174	5.29737906	5.98912867	6.136791502	5.024017343	5.158304399	5.306825617	5.469354022	5.558717357	5.718647202	4.965279614	5.464103875	5.234238859	5.617067579	5.346886644	5.83126017	5.83126017
CPB2	6.247638296	5.410021124	5.325496626	5.410021124	5.325496626	5.410021124	5.325496626	5.410021124	5.325496626	5.410021124	5.325496626	5.410021124	5.325496626	5.410021124	5.325496626	5.410021124	5.325496626	5.410021124
SCN01D	8.386577625	5.851345169	5.224500406	5.851345169	5.224500406	5.851345169	5.224500406	5.851345169	5.224500406	5.851345169	5.224500406	5.851345169	5.224500406	5.851345169	5.224500406	5.851345169	5.224500406	5.851345169
TAGLN	5.823475587	5.083435052	5.021534054	6.333619851	5.768629224	4.935850409	5.050646019	5.713327742	5.180349769	5.20757907	5.341839305	5.352681672	5.803571387	5.451719479	5.88169194	5.313368005	5.742421675	5.926476781
ZNF784	5.697973576	5.066704222	5.066704222	5.472084196	5.454280474	5.7768635	4.979036824	5.461460786	5.461460786	5.461460786	5.461460786	5.461460786	5.461460786	5.461460786	5.461460786	5.461460786	5.461460786	5.461460786
ZCZC1C	5.986230307	4.914519075	4.750308635	4.743630643	4.768727337	5.534197721	4.786661921	3.564876214	5.682104687	5.453849007	5.305959972	4.771789057	6.425256198	4.762166117	5.492911942	5.786718268	5.40222222	5.353940012
ABC6A	5.112923861	5.637688854	5.637688854	5.112923861	5.637688854	5.112923861	5.637688854	5.112923861	5.637688854	5.112923861	5.637688854	5.112923861	5.637688854	5.112923861	5.637688854	5.112923861	5.637688854	5.112923861
LSAMP	4.834201157	4.890147655	4.930951008	4.928294741	5.076109652	6.051802771	6.058332473	5.181843748	6.382146841	5.518101908	5.88785346	4.89898468	4.89590181	4.953764979	3.89442927	5.999362418	5.90419517	5.245386033
WRK11	5.26242971	5.270671186	5.357263387	6.425949662	6.077017784	6.153547182	5.551762103	5.590740646	5.497815554	5.216400212	5.497815554	5.216400212	5.497815554	5.216400212	5.497815554	5.216400212	5.497815554	5.216400212
CP170B	5.491580465	4.91580465	4.91580465	4.91580465	4.91580465	4.91580465	4.91580465	4.91580465	4.91580465	4.91580465	4.91580465	4.91580465	4.91580465	4.91580465	4.91580465	4.91580465	4.91580465	4.91580465
ACD7	4.79058403	4.785929853	5.924214243	5.910213419	5.713732903	4.971778695	6.239487724	5.538948373	5.135503310	5.245924349	5.464386235	6.07686007	4.788152857	4.795274398	6.151338986	5.211176384	5.291967452	5.716988647
CRB5	4.713234249	4.67681703	4.720299393	4.768185713	4.720299393	4.757237927	4.734918721	5.786680315	5.752237361	6.298783874	6.396486699	4.721030252	6.433735545	4.729027844	5.931338503	6.024699705	4.673424707	6.089405347
NCKA1P	5.017211606	4.95180357	4.96984935	4.905139223	4.901123589	5.03386173	5.466045387	6.625761912	6.228315413	6.347967328	5.339729546	5.000947877	5.197482145	5.150246427	5.737359693	5.408231569	5.784199396	7.92322044
FUT6	5.229741269	5.182862895	5.223643339	5.40002485	5.096400785	5.964610664	5.973756311	5.620982865	5.202411521	5.265626849	5.811682458	5.433493037	5.617263268	5.347433503	5.167238616	5.37433503	5.578917266	5.578917266
CENP	5.196859321	6.846984005	5.156388019	5.418289877	5.12070367	5.189392585	5.32803536	5.753064546	6.073187873	5.229824452	5.617946001	5.18226895	4.965346445	4.897142876	6.025939669	6.326103139	5.932739845	5.932739845
TPD5L1	6.247638296	4.964977251	4.97775762	6.093192553	5.161407367	5.012878563	5.89											

FAM175A	5.287427155	5.182382838	5.674732684	5.283152147	5.307387267	5.292215164	5.32961111	5.651574613	5.240776789	5.658894631	5.719910527	5.267575231	5.328870464	5.223904231	5.726052175	5.847924029	5.866576415	5.5363278
BC11A	5.647856108	4.831339449	4.980411264	5.420866233	5.678862013	4.858429661	5.184593722	5.291751824	5.412394942	5.753431541	4.950466873	4.959948671	5.373598425	5.56659262	5.635945512	4.842670657	4.954798004	6.345862229
POLR2J	5.06608217	5.370584671	5.113725054	5.103134311	5.084909355	5.068620655	5.29095639	5.734012675	5.051989625	5.154818394	5.390776283	5.158214675	5.23039017	5.333131694	5.754176497	5.320945672	6.119519177	5.80112465
Clor17H	5.28221929	5.220460125	5.22746725	5.149995877	5.559775026	5.248400306	5.35308446	6.260525831	5.5442016	5.739490904	5.596716079	5.219900005	5.19357419	5.300103065	6.116287268	5.516328132	6.066828433	5.207824843
CH1FA	4.745324081	4.720324083	4.745324083	4.745324083	4.745324083	4.745324083	4.745324083	4.745324083	4.745324083	4.745324083	4.745324083	4.745324083	4.745324083	4.745324083	4.745324083	4.745324083	4.745324083	4.745324083
ZHXH	5.321391925	5.321391925	5.321391925	5.321391925	5.321391925	5.321391925	5.321391925	5.321391925	5.321391925	5.321391925	5.321391925	5.321391925	5.321391925	5.321391925	5.321391925	5.321391925	5.321391925	5.321391925
TNS2	4.987470978	4.920379328	5.200707711	5.804061833	4.911791799	5.493028511	5.414133335	5.580547441	5.365952801	5.140695700	5.533306113	5.841183618	5.221747253	4.98016477	5.618216163	5.419970136	5.470256164	5.557807352
ATP7B	5.082975749	5.607618823	5.507618823	5.894545363	5.301336767	4.983092029	6.415491472	5.893541046	5.408777317	5.50885531	5.722238043	4.851829229	5.069504662	5.780222182	5.237606683	5.007776257	5.780840061	6.374492874
PLEKHG4B	6.121235368	5.169544959	5.317176787	5.207878756	5.146939144	5.225852141	5.368217593	5.310795424	5.106361045	5.46544472	5.325040183	6.360366455	6.410584335	5.797474952	5.51037571	5.47692917	5.89984029	5.16410665
BB57	5.533070953	5.794354156	4.799380928	5.493011437	5.201514905	5.442505939	5.341233932	5.108858977	5.683415908	5.109668977	5.494261795	5.146133983	5.114137361	5.553319796	5.688906074	5.237337871	5.614810952	5.410197577
ADAMT54	5.139992385	5.251978399	5.175928399	5.139940029	6.094778316	5.286109296	5.175631661	5.576061807	5.318471126	4.88086285	5.53203193	5.27794906	5.353069786	5.311945582	5.280978092	5.508264595	5.348521149	5.222610742
PT11-651A1	5.719298489	5.027313017	5.00585138	5.28542183	5.123503329	5.02149698	5.436609439	5.357033864	5.357033864	5.366438814	5.64005102	5.04898639	5.184988044	5.240092024	5.196547945	5.343532927	5.34110151	
SLC37A2	6.190065	5.026515903	5.070343781	5.502573185	5.095627627	5.511575404	6.292270777	6.665374148	5.146839937	5.15451502	5.519891236	4.921762202	5.084839579	5.17575614	5.776737724	5.113616316	5.458928179	5.688848775
MYL9	5.373313483	5.834011552	4.834011552	5.308911746	5.576494135	4.7401355	5.40106255	5.318634239	5.11754966	5.556481646	5.027574356	5.589376372	5.368673488	5.20867111	5.182524576	5.301706653		
PAK6	5.776173884	5.039288632	5.196047416	4.90066371	5.628868676	5.548772586	5.404151317	5.351602838	5.328368949	5.431267427	5.374160446	5.298445609	4.841735558	4.9460309	5.181863316	5.098606012	5.492184252	5.390042447
B3GN1TL	5.133063105	5.133063105	4.942557704	5.34071927	5.011382251	5.011382251	5.011382251	5.011382251	5.011382251	5.011382251	5.338991538	5.948385208	5.021651059	5.826544693	5.320460307	5.539923928	5.304845331	5.577155982
PAK6	4.885837447	5.261531969	4.884630986	4.881947467	5.368199479	5.637465794	5.439389956	5.399118715	5.165327909	5.641904174	5.512522445	4.885181757	4.885217452	4.887044819	5.178659394	5.617426561	5.979806505	5.306317301
LRCR29	5.276776275	5.797458353	4.930133705	4.484360391	5.05897259	4.994880808	5.753560693	5.319791006	5.377088481	5.347619215	5.28811094	5.793988088	4.854872304	5.990209099	5.52989795	5.219449178	5.302450007	5.634925994
BCAR1	4.607462181	5.252293064	4.602267833	4.602267833	4.602267833	4.602267833	4.602267833	4.602267833	4.602267833	4.602267833	4.602267833	4.602267833	4.602267833	4.602267833	4.602267833	4.602267833	4.602267833	4.602267833
Clor7A	5.505853458	4.903863567	5.95125236	5.615292596	5.615292596	5.615292596	5.615292596	5.615292596	5.615292596	5.615292596	5.615292596	5.615292596	5.615292596	5.615292596	5.615292596	5.615292596	5.615292596	5.615292596
COLQ	5.344946442	6.895936421	4.885746122	5.652994005	4.843164238	5.014073461	4.94003189	5.635904829	5.41688093	5.226145531	5.226145531	5.226145531	5.226145531	5.226145531	5.226145531	5.226145531	5.226145531	5.226145531
C3D3EAP	4.990022854	4.987472269	5.962054144	6.094392725	5.684516655	5.198165186	5.88855916	5.269860022	5.502738745	5.512727018	5.236258117	5.342805268	5.07808963	5.124012509	5.521537557	5.268210826	5.345935427	5.227771746
LTPB1	5.311298584	5.158047048	4.846399976	5.204785499	5.677014663	4.848670916	5.10390966	5.555005247	5.781143924	5.961572804	5.555005247	5.847593652	4.8476709	4.851607337	5.256578431	5.681917228	5.75137495	5.301197171
LUR83	5.135324513	5.135324513	5.305044723	5.186034211	5.07386889	5.542532521	5.553856566	5.4522696	5.690227371	5.446448784	4.918822849	5.092669189	5.6219861	5.30239203	5.310887683	5.517046439	5.636657386	
DKGH	5.973792548	5.319500527	6.26443051	5.121260268	5.249688291	5.024765634	5.063390703	5.239406174	5.349630704	5.861245191	5.28806311	5.284802478	5.278696262	5.208360618	6.109793602	5.383499526	5.368696154	5.50758693
ZBT84A	6.22528412	4.842029409	6.159676831	5.617169465	5.133654604	4.847260299	6.111607939	5.776573675	5.332065246	5.64502555	5.166244448	4.844635106	4.849079852	5.752382113	5.361751775	5.217156273	5.244799569	
CH1FA	4.745324081	4.745324081	4.745324081	4.745324081	4.745324081	4.745324081	4.745324081	4.745324081	4.745324081	4.745324081	4.745324081	4.745324081	4.745324081	4.745324081	4.745324081	4.745324081	4.745324081	4.745324081
ENAH	5.659631212	5.07166421	6.057619681	5.053170529	5.053170529	5.053170529	5.053170529	5.053170529	5.053170529	5.053170529	5.053170529	5.053170529	5.053170529	5.053170529	5.053170529	5.053170529	5.053170529	5.053170529
ANKS1B	5.107892516	5.536807858	5.22627123	5.244640569	5.433207108	5.365179851	5.33228765	5.387261689	5.26984311	5.318905293	5.234829835	5.311152544	5.291478621	5.292874965	5.376190142	5.337154697	5.286712313	5.23483116
TT30A	5.889811727	5.06804502	5.684754539	5.868714273	5.567576187	5.26077518	5.808868465	5.455891874	5.808868465	5.455891874	5.68834165	4.755144237	4.755227544	6.10566758	5.91096045	5.433640047	5.34320117	5.408225707
TMEM177	5.278140725	6.292743482	4.823427842	5.818978555	5.407004361	5.559569923	4.899572597	5.180515407	5.521713193	5.32475794	5.046174616	5.152227745	5.541993039	4.828253342	5.608369964	5.025705982	5.151893622	5.337325164
SOX6	4.793518801	4.846125734	6.17941512	4.846125734	5.02877082	4.834713513	6.20426549	6.226024184	5.2607642	5.04175467	4.842557884	4.838925219	4.8429174	6.800862117	6.06643007	6.00766417	6.382590649	
ASAP3	4.801851308	5.288247911	5.607313718	5.12929333	5.84531622	4.820304147	4.862393079	5.399105304	5.240043035	5.359774998	5.61756531	5.066088482	5.370299567	4.958848868	5.366579232	5.587327841	5.311758351	4.900438935
LTPB1	5.36180131	5.174921714	5.243112101	5.243112101	5.243112101	5.243112101	5.243112101	5.243112101	5.243112101	5.243112101	5.243112101	5.243112101	5.243112101	5.243112101	5.243112101	5.243112101	5.243112101	5.243112101
ARL10	5.205357742	5.181312097	7.206539879	5.108177549	5.108177549	5.108177549	5.108177549	5.108177549	5.108177549	5.108177549	5.108177549	5.108177549	5.108177549	5.108177549	5.108177549	5.108177549	5.108177549	5.108177549
TMPS5A	4.832813162	4.72263914	4.858855753	4.745365163	4.952966303	4.850734033	5.027819327	6.711240269	4.63151161	4.29607538	5.63683678	7.442141835	5.701200919	4.952932939	7.776472764	4.710504818	5.566012287	4.907142151
LACC1	5.940795156	5.003976184	5.627142713	5.09938188	5.0358344	5.081866202	5.329830989	5.291688398	5.329830989	5.291688398	5.9283504	4.812191738	6.290266801	4.964752677	5.862703507	5.008968718	5.121501335	5.051524645
CS5	5.93247938	6.258785454	5.004492944	4.991462739	5.031887464	5.108824473	6.505495999	5.549582807	5.016572726	5.428422129	5.454615643	5.15384325	5.046044309	5.111953047	5.873821156	5.046931246	4.74298188	6.752608913
RHCE	5.28413335	5.296435579	5.441527551	5.296435579	5.441527551	5.441527551	5.441527551	5.441527551	5.441527551	5.441527551	5.441527551	5.441527551	5.441527551	5.441527551	5.441527551	5.441527551	5.441527551	5.441527551
TBC1D2	4.73956374	4.736471982	4.736471982	4.736471982	4.736471982	4.736471982	4.736471982	4.736471982	4.736471982	4.736471982	4.736471982	4.736471982	4.736471982	4.736471982	4.736471982	4.736471982	4.736471982	4.736471982
KNA1B83	5.010957992	5.634190357	5.269518566	4.729301828	5.537002426	5.842056487	5.493760647	5.438651414	5.511883295	5.240284286	5.60651723	4.738757235	4.737947108	5.348280029	5.338822035	5.199747465	5.069271002	5.819499491
ZBT84A	6.22528412	4.842029409	6.159676831	5.617169465	5.133654604	4.847260299	6.111607939	5.776573675	5.332065246	5								

CSDC2	5.480667054	4.863140609	5.167941653	4.844508797	5.539073027	5.596258083	4.863096383	4.933951708	4.955044763	4.98266197	5.231899857	6.154437044	5.214200291	4.928304139	5.254206401	5.287221727	5.534165378	5.428170566
NOCT	5.086683352	5.065863449	4.90661404	4.96389531	5.226368397	4.820517917	4.888437256	5.636366798	5.598348432	5.376897996	5.648735827	5.025743354	5.05774812	5.218187497	5.76577154	5.621845981	5.415008395	5.438890359
ARHGF10L	4.660021823	4.752372845	4.66500968	4.986499446	4.71772007	4.66500968	4.673014739	5.12805011	5.261982912	5.218317026	5.633785064	4.673028585	4.673106968	4.672359977	5.113142499	5.307541387	5.469136309	5.886087919
ACTN3B	5.596901108	5.549235201	4.958678651	4.986499446	5.07145414	5.07145414	5.102616214	5.246393151	5.176384534	5.306544584	5.01411987	5.918120764	5.187058825	5.089894244	5.400012076	5.384969129	5.279591149	5.389656902
ZNF577	5.139755739	5.169593022	4.804287722	4.804287722	5.091477123	5.091477123	5.297314534	5.297314534	5.051914667	5.427914667	5.427914667	4.868109274	5.050999759	5.150455125	5.670931027	5.680073071	5.274244008	5.572744008
PHLD3A	5.78478073	4.62214185	4.654406655	4.626551127	4.678218915	4.669971251	4.840778766	5.690205359	5.402629401	4.8902385	5.021296538	6.774615647	7.183586607	4.721524199	3.616451274	1.655400051	5.835651121	5.628934287
GMPR	4.779677037	4.779677037	4.779677037	4.779677037	4.779677037	4.779677037	4.779677037	4.779677037	4.779677037	4.779677037	4.779677037	4.779677037	4.779677037	4.779677037	4.779677037	4.779677037	4.779677037	4.779677037
SNK12	6.002659052	4.92136351	5.185076616	5.748825117	5.152178835	5.474572009	5.733311349	5.244765095	5.23455597	5.388172205	5.295865955	4.799017117	5.073126017	4.892019193	5.038580051	5.102455545	5.64519969	5.375098751
FBLM1	5.115928326	5.158416734	4.679496378	4.679496378	4.679496378	4.679496378	4.679496378	4.679496378	4.679496378	4.679496378	4.679496378	4.679496378	4.679496378	4.679496378	4.679496378	4.679496378	4.679496378	4.679496378
PEG10	4.694052656	4.93033853	4.952039424	4.93311628	6.539934915	4.97086518	4.97422627	6.15687837	6.07177742	5.091448782	4.986103919	4.982288243	5.019494512	5.02786716	5.443519807	5.385269658	5.448140986	5.696606149
DNM2H1	7.10854817	6.156973831	4.608604171	5.711905169	4.635562814	4.635562814	4.635562814	4.635562814	4.635562814	4.635562814	4.635562814	4.635562814	4.635562814	4.635562814	4.635562814	4.635562814	4.635562814	4.635562814
ADAT3	4.749174955	5.443768568	4.747435497	4.747435497	4.747435497	4.747435497	4.747435497	4.747435497	4.747435497	4.747435497	4.747435497	4.747435497	4.747435497	4.747435497	4.747435497	4.747435497	4.747435497	4.747435497
ADSS1	6.403783379	4.712095208	5.521745891	4.714897469	4.708086153	5.687582978	4.803973313	5.039733313	5.93646806	5.897023875	4.74066774	4.808812766	4.752919529	4.735847586	5.860689866	5.03821327	5.26776194	5.62483875
ARAP2	4.706099318	4.702421897	6.527872058	4.99544818	4.827508783	4.807306495	4.706226353	5.788031526	5.474824329	5.575751362	5.400753977	4.704066225	4.92039158	4.709813481	6.045368375	5.91448809	5.96909439	6.32434886
ABCQ2	4.562303821	4.857644542	6.840234699	4.65408782	4.560508285	4.5626738	6.825890626	5.216621288	5.088320818	5.726952207	5.178844226	4.865429005	5.182378944	5.649554403	5.364197109	7.841077791		
KIAA0895L	5.101828313	5.249554201	5.704004774	5.10255447	5.042990413	5.10255447	5.094020558	5.7882575	5.328134283	5.5857048518	4.077449728	5.135894641	5.068730795	5.118217951	6.123076059	5.632697357	5.764281939	5.977013558
CLIP2	4.742117569	4.830797844	4.830797844	4.830797844	4.830797844	4.830797844	4.830797844	4.830797844	4.830797844	4.830797844	4.830797844	4.830797844	4.830797844	4.830797844	4.830797844	4.830797844	4.830797844	4.830797844
CAMK4	4.751962806	4.73377907	4.73377907	4.73377907	4.73377907	4.73377907	4.73377907	4.73377907	4.73377907	4.73377907	4.73377907	4.73377907	4.73377907	4.73377907	4.73377907	4.73377907	4.73377907	4.73377907
DNM3	4.730786681	4.730786681	4.730786681	4.730786681	4.730786681	4.730786681	4.730786681	4.730786681	4.730786681	4.730786681	4.730786681	4.730786681	4.730786681	4.730786681	4.730786681	4.730786681	4.730786681	4.730786681
FN1	4.87351961	4.830248018	4.75252501	5.138971291	5.23507048	4.86310815	4.942541745	4.489209088	4.802734302	5.257256926	5.990290424	4.918819999	4.848289126	5.913943555	6.12521861	5.550724067	0.081611424	0.630491828
BCO2	5.498031515	5.109318774	4.874474849	5.145650121	4.880043672	5.735101814	4.917778528	5.607395632	5.381972215	5.56897407	5.507856309	4.935347913	4.871767899	4.954425433	5.102746765	5.222276709	5.846128885	5.027575616
SPHK1	4.702317597	4.960135907	5.340229841	4.736435815	4.703135992	4.94621709	5.264079169	5.70508434	5.160999273	5.701232456	4.700588001	5.86387193	4.705535744	6.104477876	5.585274666	5.197903043	6.016939393	6.169939393
TMEM53	4.966386883	4.968582367	4.948772948	5.389839529	5.217463571	4.959037436	5.086889965	5.197850433	5.393358383	5.889692487	5.147111946	4.982521375	5.114314028	5.029033515	5.297287562	5.362339028	5.464137724	5.709269438
RMS2	5.066778566	5.146515539	5.149494057	6.056680478	5.16803711	5.064819254	5.70682844	5.721758299	5.097463798	6.093240207	5.460615983	5.059990491	5.080146801	5.191721239	5.898224247	5.073900800	6.02876078	6.02876078
ZNF717	5.324981139	5.081527158	5.117831138	4.718552099	4.806282327	5.70062942	5.91204242	5.241144842	5.46937666	5.31158976	5.061517183	4.713477142	4.790072442	4.793967416	4.735073562	5.167320562	5.188852099	5.300748009
ACTN3B	5.596901108	5.549235201	4.958678651	4.986499446	5.07145414	5.07145414	5.102616214	5.246393151	5.176384534	5.306544584	5.01411987	5.918120764	5.187058825	5.089894244	5.400012076	5.384969129	5.279591149	5.389656902
ZNF14	4.97748454	4.937196574	4.93196574	4.93196574	4.93196574	4.93196574	4.93196574	4.93196574	4.93196574	4.93196574	4.93196574	4.93196574	4.93196574	4.93196574	4.93196574	4.93196574	4.93196574	4.93196574
TUBB3	4.946983912	5.125324709	4.828006513	4.80144555	4.821590733	5.54428804	4.846259593	5.565258048	5.069528063	5.430698395	4.898514057	4.995547819	5.421315144	5.808135051	5.820654607	5.259921359	5.221785518	5.503319224
THN11	6.382411392	4.68502916	6.366560157	5.97190195	4.912023408	4.70989424	5.271690727	5.508937161	5.212929426	5.563595163	4.913563082	4.94782527	4.932959115	4.83141762	5.910197363	5.15642908	5.458198754	5.458198754
CFD	5.058120050	5.849691882	5.719865307	4.788250848	4.884362723	5.723204907	5.153182385	5.136324729	5.078960278	5.189225869	4.960271604	5.717069905	4.825213531	4.840902629	5.597278402	5.304540776	5.254293122	5.564979846
NR3C2	5.215572592	5.30396427	4.780202343	5.072603145	5.361402429	4.709779426	5.240832199	5.414744742	5.338635104	5.312978021	4.708797643	4.70884798	5.736386587	5.04643371	5.034360939	5.124580552	5.527504084	5.527504084
PHN1Y	5.774830974	4.827647084	4.881866064	5.789006201	5.890805151	4.814096052	4.827239969	5.254243658	5.638506863	5.130098488	5.185735256	5.691869424	4.826277413	4.833257169	5.1147135025	5.119662943	5.537974126	5.952742514
PHF1	5.277694878	4.940413071	5.111291134	5.01690262	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426
DNM3	4.932791124	4.830851124	4.932791124	4.830851124	4.932791124	4.830851124	4.932791124	4.830851124	4.932791124	4.830851124	4.932791124	4.830851124	4.932791124	4.830851124	4.932791124	4.830851124	4.932791124	4.830851124
PBLD	5.164140490	4.940073007	4.91364001	5.153388801	4.94078065	4.868190185	4.856420849	5.41196451	5.006850106	5.237978162	5.243342486	6.41905463	5.87218724	5.031147575	6.123254298	5.167278396	5.637266999	4.717160703
ACRC	5.444286275	4.726494458	4.938008074	4.57156341	5.056817563	4.901088647	5.132674671	4.989123558	5.231156918	5.251244364	4.760874051	6.679185873	4.749216347	5.402288557	4.977902902	5.37695454	5.37695454	5.37695454
ROR2	4.692573741	4.690248143	5.733697962	4.875297849	5.693141778	4.69126835	5.814383801	5.134705398	5.54642444	5.575348064	5.195682048	4.691386197	4.691450931	4.694751628	5.077443705	5.310115201	5.280963352	5.465714937
PPP1R13L	5.558770389	4.821720863	4.821720863	4.821720863	4.821720863	4.821720863	4.821720863	4.821720863	4.821720863	4.821720863	4.821720863	4.821720863	4.821720863	4.821720863	4.821720863	4.821720863	4.821720863	4.821720863
MOCOS	7.951556603	4.929688122	4.939618023	4.890871884	5.139801512	4.801813972	4.945109422	5.190626448	5.500340245	6.589541344	4.883175701	4.831875709	4.907299843	4.978953041	5.185101265	5.288662054	6.024024863	6.024024863
CLCN4	5.132105884	4.759787168	4.965407434	5.760867761	5.554930332	4.690409227	5.180520538	5.189057593	5.599394139	5.393122911	5.393122911	5.393122911	5.393122911	5.393122911	5.393122911	5.393122911	5.393122911	5.393122911
PHF1	5.277694878	4.940413071	5.111291134	5.01690262	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426	4.94585426
RM2	5.13796187	4.931286145	5.119839703	5.098549006	5.117368029	5.124080059	5.134880953	5.915891059	5.495827381	5.8499771								

UNCL3C	4.864155968	4.814527426	5.026188354	4.766180697	4.840207396	4.940588518	4.843946031	5.896912789	4.83656859	5.883979484	5.041086487	4.940463401	7.779004817	5.001088035	6.565960152	7.049957445	6.24122137	6.787281221
MAPT	5.045967695	4.943016968	4.988347232	4.948299062	4.928269926	4.971075125	5.022079654	5.545105478	5.538887801	5.742347879	6.177314326	4.87329649	5.014436411	5.009297226	5.035428939	4.946809384	5.089877458	4.989052375
LAPTMM4B	4.882850672	4.944759672	6.0250067	5.07722193	4.921728125	4.84412981	4.902000007	5.728966315	6.19464232	5.36480736	6.453505817	4.882399552	4.877298145	4.924562547	5.748798304	5.5800975	4.912529292	6.767758583
CHKS2R	4.53865515	5.693485259	4.710040193	4.575252756	5.611270322	4.723614001	6.240243121	5.093715351	5.321454147	5.31032964	5.068344134	4.748476608	4.582329191	4.746278746	5.528275317	4.935933256	5.203466452	4.573676266
DLIA	4.694550883	4.583104652	4.698467281	4.57255157	4.579642514	4.703739712	5.89020559	6.601153663	5.594644384	5.597081128	5.216231716	4.82077353	5.824721945	4.745658694	6.795023191	5.194746994	5.557286668	4.644355894
SOCB2P	6.128961406	6.128961406	3.90466379	5.24042575	5.024598799	4.545421206	5.4549471249	5.108933937	4.778110396	4.912842655	4.984478736	6.38000113	6.146219646	6.39602185	6.845374739	6.612110185	5.00591564	12.03355386
ZNF461	6.149129444	5.012131749	6.236784194	4.729553762	4.873434793	4.682922102	4.871838396	5.220631559	4.711270518	5.336943308	4.989050677	4.703023624	4.741374303	4.975816111	5.338493654	5.604893078	5.294453064	5.468163138
KANK2	4.823271866	4.800936268	4.800204013	4.829422117	4.898627446	4.969319387	5.006812423	5.34079156	4.996645344	5.004399518	4.754466454	4.98187283	6.213073113	5.382379652	5.311967271	5.25998045	5.197162215	5.476944784
BTBD19	4.676482124	4.668353706	4.715095374	4.694676302	4.675974895	4.775331889	4.701502018	6.035845725	5.161618378	5.668051524	5.378694256	4.760752896	5.400417737	4.839270619	5.579911186	5.380824159	5.476794404	5.464747784
ADAMDECI	4.498802941	4.492976441	4.492963456	4.479605009	5.542909142	4.500268558	4.499000094	5.383491206	5.147289109	5.013545107	4.984628317	6.054334859	4.95814482	6.335025399	6.72311219	4.81425669	5.407045259	6.96179148
TPSA81	4.328093438	4.320634263	4.328090348	4.8223267421	5.4700414	4.549682068	4.823214977	6.242652741	4.541023991	4.290043996	4.965246605	6.167495666	7.436726749	5.023157852	7.429491038	5.372865369	4.518914764	7.248690229
PHL2	4.628725674	4.676666249	5.415290415	4.765397328	4.578261803	4.588822116	5.120033742	5.264072633	5.401758	4.864270341	5.371125902	6.750212003	4.587604948	4.785114885	6.769927273	4.603001116	5.539380738	11.03821618
TNC	4.80852066	4.77463316	4.746569618	4.810745428	5.381950187	4.805233952	5.337753709	5.166471816	5.4400209	5.166471816	5.248648749	4.663476183	4.799465319	4.807277775	5.382396918	4.435924498	5.340122096	5.733586948
CENPE	4.572628736	4.570809197	4.873764189	4.566616471	5.201498153	5.544053009	4.572691777	5.230353638	5.10007416	4.870723004	5.247526409	4.571621503	4.571676399	4.574476988	5.390233305	4.577311755	5.339141876	5.432282467
PLPP7	5.963097347	4.69049015	5.322476665	4.640282404	4.916211703	4.611948448	5.88627715	5.295820426	5.517250919	5.522887945	5.376506715	5.046515664	4.610148341	4.61369219	4.913188084	4.676797556	5.089982515	4.816997153
ERVMER34-1	5.33997457	4.678201737	4.672728027	5.196290915	4.761961648	4.750092944	5.982900502	5.321332835	4.859731088	5.647396693	5.435484735	4.921434476	4.641672907	5.831308168	5.144254028	4.850753196	4.952742043	5.009821982
PBX3	4.542328638	4.674972067	4.538676178	4.530407542	5.897760143	4.543248931	4.896300448	5.506165886	5.052890862	4.937112097	5.011629239	5.388006227	4.540456569	6.751510857	5.732606737	5.479593198	5.273872373	4.737493857
ZNF439	6.082864997	4.852525943	4.965055556	4.889744229	4.837312181	4.89142805	4.883067703	5.290212029	5.150337856	5.422699915	4.978149514	4.867727392	6.2489854	4.966589855	5.212940023	4.952658746	4.544145388	5.154695711
ZNF418	5.858233262	4.527954402	4.527888168	5.412829267	5.733254123	4.625609312	6.628744411	5.205915282	5.040605738	5.576746062	5.33572837	4.529460557	4.529562209	4.534725911	4.892992371	5.116253962	4.782928765	4.626728334
APBA2	4.746825121	4.754296153	4.776097204	4.723102254	4.763251869	4.768941416	4.810395052	5.327580279	4.737875308	4.657173365	5.477497137	5.070145618	5.639941116	4.804346449	5.297415511	5.081446879	5.960269693	5.584332398
WHTT1	4.754995196	4.775184232	4.02940418	4.716706902	4.76312227	4.894277501	4.765253512	4.759443661	5.443109132	4.94248383	5.130716365	6.003682952	4.751962035	4.812916341	5.812477498	5.079517695	5.651067316	5.6442847
FAMS7A	4.575983591	4.99070864	4.896019819	4.955089047	4.572771467	4.574653902	5.745011786	5.220145817	5.569025422	4.877979623	5.31315658	4.734983841	4.575029086	4.891820207	5.380472412	4.966116859	4.672623024	5.247259565
RIMS1	6.547244651	4.855394946	4.857893555	6.158359948	4.716110657	4.874391179	4.877913517	6.225503094	6.790530503	5.847521048	6.681401547	4.888337064	4.882665343	4.94181348	4.828217676	6.152340527	5.559340752	4.805704532
ZNF597	4.765110249	4.766548878	4.592459065	4.944303621	4.720670913	4.841735109	4.59450796	5.242314576	5.621796551	5.301711764	5.620176211	4.593364942	5.107432444	4.5964137	5.251665365	5.38322152	4.760754541	5.681854852
LYZ	4.621651703	4.276768787	4.283892483	5.644868329	7.052232259	4.761598025	7.564639408	5.545994472	4.192158406	4.90667416	4.24796349	5.503252924	4.450738625	4.404566619	7.689755728	4.472427741	5.479351173	7.923881769
ZNF699	5.364789791	4.624535987	4.624535987	4.684692259	4.65149688	5.803618536	4.786283898	5.575110778	5.277990545	5.415724368	4.658432647	4.728789942	6.165711662	5.392307117	4.947593162	5.089844706	4.685124434	
WWC1	4.624796718	4.68060648	5.193027489	4.59507173	4.600519427	4.713082315	4.735805648	4.985036318	5.670961461	5.053013246	5.006231005	4.618618198	4.617476801	4.635792257	5.668857345	5.711427415	5.349131298	6.448448165
APBA2	4.746825121	4.754296153	4.776097204	4.723102254	4.763251869	4.768941416	4.810395052	5.327580279	4.737875308	4.657173365	5.477497137	5.070145618	5.639941116	4.804346449	5.297415511	5.081446879	5.960269693	5.584332398
SEMA6A	4.92990042	4.496026063	4.495982841	4.49093566	4.821481301	4.49879579	4.684568351	4.882692334	4.785346593	5.027979495	5.063396421	5.551640881	4.497076226	4.50046146	5.197274309	5.154611011	5.646956555	5.974906189
PRC1	5.795375838	4.850506614	4.78183937	4.754854981	4.599099228	4.60346112	4.796737971	5.144830428	4.728130521	4.715917375	5.033449	5.680677324	4.688497339	4.817587831	5.387829538	5.241153959	5.50740628	5.8511669
KLHL14	6.705895745	6.902349027	5.700249912	4.372314761	4.382834235	6.04801619	4.394751572	5.051152528	5.341875069	5.508717358	5.712376969	4.390885093	4.391084274	4.40112343	4.368155457	4.497105387	4.582620727	5.265120266
FN1	4.76371964	4.688195697	4.701398525	7.334233673	4.66346554	4.739567633	4.769575748	5.828108987	4.594766383	7.461216754	4.697524166	4.844792332	6.135119913	4.816337621	7.746705947	4.640483391	5.555614563	7.267137871
IL13RA1	4.608835851	4.578672159	4.58667853	4.551027613	5.573851654	4.501804338	4.500793641	5.831777892	5.720839774	4.759337515	5.785833389	5.047329863	4.808205582	4.50520159	6.239645951	4.614695553	5.358033948	6.903947929
SMARCD3	4.466602229	4.461427365	4.461252331	4.449280369	4.457449957	4.467927724	6.242859944	4.892708659	6.391661517	4.774028823	5.89608677	4.46374463	4.46390082	6.362086217	5.184301724	6.435144344	4.766075489	5.645693864
KIR2DL4	4.547962176	5.796861287	4.544429093	4.536895944	4.541393945	4.54860252	4.78771754	5.452830877	4.537425125	5.920462622	4.741140573	4.545954747	6.224385751	4.551065549	5.81421384	6.685070857	5.699316687	5.899170075
GPRC5A	4.607321239	4.484477007	4.322070798	3.936012879	4.470360886	4.325152336	7.15361441	5.344086201	5.43216902	5.43216902	5.437676827	4.318159039	4.569235811	4.267908229	8.146109878	4.560302628	4.911049605	12.19370875
SN2A	4.491614412	4.488555702	4.488495585	6.201755042	4.486217387	4.492400951	4.491720128	5.63816965	5.629056463	5.587671398	4.48656177	4.489922999	5.70922901	4.404796769	5.53538834	4.628692424	5.474114006	5.544086953
RBP2	4.402108083	2.943455661	5.489870101	4.966901512	4.881093457	3.020033362	3.007728174	3.886740714	4.939366189	4.18681274	6.080114426	2.97375236	3.061370311	5.476382352	5.576837011	3.949235652	9.981475648	
CFB	4.402873107	6.53919691	4.391787736	4.365865622	4.383544193	4.406533183	5.904689125	6.700794491	4.367728273	4.36679032	4.384813214	6.714517174	4.397217836	4.413645046	7.00730736	6.003283549	6.232093621	7.553618762
SPINK4	4.034781368	4.017367061	4.017018934	4.086857892	4.516440051	5.609038262	4.476871653	6.04357183	4.953599866	4.065704894	4.264016626	6.535792889	4.025749056	6.537218837	11.22028442	4.259183644	3.988711756	6.347347381
CLU	3.762207074	3.832087074	3.841580411	3.817885221	3.862678952	3.995244889	3.749902731	5.156174032	3.593556373	5.096019123	5.598125621	3.764099139	10.77664321	4.191513492	8.182708665	4.171327741	5.074260386	11.21268065
EMIP1	5.460215183	4.01539648	4.0062982	4.00645304	4.088023947	4.228746406	6.268875643</											

Genes that are differentially expressed in both comparisons - nonTG2 (CeD) vs disease controls and TG2 (CeD) vs disease controls. Negative fold-change indicates increased expression in CeD patients.

Gene	ENSEMBL_ID	baseMean_contVSnontg2	log2FC_contVSnontg2	lfcSE_contVSnontg2	stat_contVSnontg2	pvalue_contVSnontg2	padj_contVSnontg2	baseMean_contVStg2	log2FC_contVStg2	lfcSE_contVStg2	stat_contVStg2	pvalue_contVStg2	padj_contVStg2
NFYA	ENSG00000001167	249.028	-1.338	0.328	-4.1104	0	0.004376605	247.418	-1.337	0.376	-3.587	3.00E-04	0.015194293
TFPI	ENSG00000003436	214.428	-1.042	0.333	-3.1555	0.0016	0.054234606	354.926	-1.445	0.425	-3.5063	5.00E-04	0.018891928
MAP3K9	ENSG00000006432	204.462	-2.037	0.389	-6.026	0	2.24E-06	159.199	-1.63	0.452	-4.2725	0	0.001748693
CRY1	ENSG00000008405	148.77	-1.612	0.392	-5.202	0	8.41E-05	210.046	-1.952	0.452	-5.4817	0	1.36E-05
GRN	ENSG00000030582	1890.507	-0.817	0.19	-4.2939	0	0.002563053	1710.36	-0.637	0.215	-2.9587	0.0031	0.067307278
RELT	ENSG00000054967	587.668	-1.177	0.377	-3.2165	0.0013	0.048045374	689.796	-1.565	0.398	-3.9959	1.00E-04	0.004585119
RASGRF1	ENSG00000058335	126.781	-1.458	0.392	-4.5852	0	0.000879515	76.636	-1.129	0.448	-2.9977	0.0027	0.016909726
SLC2A3	ENSG00000059804	400.457	-1.35	0.376	-3.719	2.00E-04	0.013846386	530.567	-1.871	0.402	-4.76907	0	0.000298047
TNPO3	ENSG00000064419	231.83	-1.386	0.37	-3.8477	1.00E-04	0.009705204	237.874	-1.766	0.352	-5.0478	0	9.85E-05
ANKS1A	ENSG00000064999	91.433	-1.388	0.386	-3.7875	2.00E-04	0.011428329	124.124	-1.814	0.432	-4.3982	0	0.001131511
DIP2B	ENSG00000066084	110.7	-1.295	0.372	-3.5609	4.00E-04	0.021414858	131.731	-1.582	0.414	-3.9019	1.00E-04	0.005937364
ATG2B	ENSG00000066739	271.108	-1.303	0.387	-3.5623	4.00E-04	0.021414858	301.316	-1.373	0.446	-3.2804	0.001	0.038355555
PFKP	ENSG00000067057	71.563	-1.103	0.385	-3.5549	4.00E-04	0.021559757	79.177	-0.88	0.426	-2.7924	0.0052	0.094503178
HYAL2	ENSG00000068001	62.324	-0.821	0.361	-3.2498	0.0012	0.044778332	149.141	-1.886	0.452	-5.5092	0	1.20E-05
BCL3	ENSG00000069399	750.689	-1.03	0.283	-3.6455	3.00E-04	0.016991472	703.811	-0.947	0.314	-3.0195	0.0025	0.059805182
PPIE	ENSG00000080472	628.713	0.867	0.282	3.0657	0.0022	0.066597211	618.592	0.927	0.309	2.9914	0.0028	0.06293759
ICAM1	ENSG00000090339	3463.472	-1.016	0.296	-3.4469	6.00E-04	0.028401852	3385.512	-1.027	0.309	-3.3305	9.00E-04	0.02948415
USP48	ENSG00000090686	2088.01	-0.988	0.203	-4.859	0	0.000336026	2225.034	-1.103	0.224	-4.9165	0	0.000169316
ORC6	ENSG00000091651	101.307	-1.201	0.38	-3.2573	0.0011	0.044643759	132.625	-1.605	0.442	-3.9215	1.00E-04	0.005590858
HSD3B7	ENSG00000099377	57.452	-1.055	0.387	-3.246	0.0012	0.044896948	81.251	-1.758	0.45	-4.3649	0	0.001268675
GRK3	ENSG00000100077	80.357	-1.418	0.393	-4.2477	0	0.002879182	75.869	-1.677	0.45	-4.1616	0	0.002676937
PYGB	ENSG00000100994	2181.837	0.807	0.223	3.6208	3.00E-04	0.018316615	2254.222	0.72	0.256	2.8113	0.0049	0.090047606
SLC7A5	ENSG00000103257	9830.885	-1.354	0.276	-4.9155	0	0.000295116	9351.023	-1.299	0.308	-4.2349	0	0.002033832
IL21R	ENSG00000103522	518.446	-2.008	0.364	-5.7457	0	8.13E-06	578.546	-1.976	0.431	-4.8621	0	0.000203031
SLC30A4	ENSG00000104154	736.941	0.804	0.228	3.5225	4.00E-04	0.023140233	726.967	0.843	0.26	3.2381	0.0012	0.037361398
AHR	ENSG00000106546	76.695	-1.801	0.392	-5.3304	0	4.75E-05	87.276	-1.875	0.451	-4.9114	0	0.000169316
MAP3K8	ENSG00000107968	938.191	-0.956	0.239	-4.0024	1.00E-04	0.006191079	1127.47	-1.27	0.259	-4.9027	0	0.000171059
RASD1	ENSG00000108551	1303.966	1.092	0.225	4.841	0	0.000336026	976.559	2.116	0.314	6.7167	0	1.65E-08
SLAIN2	ENSG00000109171	529.465	-0.911	0.276	-3.309	9.00E-04	0.03960488	534.374	-0.976	0.267	-3.6517	3.00E-04	0.012524527
VWASA	ENSG00000110002	170.065	-1.098	0.393	-3.1015	0.0019	0.060734113	216.587	-1.311	0.452	-3.2484	0.0012	0.036875123
GPRC5D	ENSG00000111291	1128.942	1.298	0.284	4.5569	0	0.000971246	1011.984	1.628	0.354	4.5725	0	0.000643001
DSE	ENSG00000111817	124.545	1.552	0.385	3.9355	1.00E-04	0.007630162	114.892	2.037	0.433	4.5972	0	0.000590349
PTP4A1	ENSG00000112245	2499.22	-1.006	0.26	-3.872	1.00E-04	0.009284367	2537.987	-1.032	0.299	-3.4585	5.00E-04	0.021717843
CPEB4	ENSG00000113742	2329.328	-1.069	0.237	-4.5154	0	0.001142011	2496.392	-1.166	0.285	-4.094	0	0.003371576
ACTR8	ENSG00000113812	299.999	-1.064	0.382	-2.8822	0.0039	0.096138316	316.023	-1.289	0.414	-3.1808	0.0015	0.042030051
BCL6	ENSG00000113916	54.07	-1.636	0.388	-6.421	0	2.41E-07	78.587	-2.809	0.449	-7.2697	0	7.69E-10
KAT2B	ENSG00000114166	513.693	-0.998	0.262	-3.8073	1.00E-04	0.01101642	469.083	-0.858	0.296	-2.9	0.0037	0.076027625
C3orf52	ENSG00000114529	72.259	-1.478	0.386	-5.6371	0	1.23E-05	127.897	-2.027	0.452	-6.405	0	1.07E-07
ACVR1	ENSG00000115170	233.635	-1.508	0.309	-4.8983	0	0.000303176	257.236	-1.585	0.371	-4.3069	0	0.001578047
STAT1	ENSG00000115415	6491.514	-0.955	0.27	-3.5502	4.00E-04	0.021722754	7164.649	-1.165	0.264	-4.4233	0	0.001030205
PLEKH2	ENSG00000115762	383.337	-1.189	0.315	-3.7918	1.00E-04	0.011428329	399.253	-1.253	0.36	-3.5042	5.00E-04	0.018891928
SFPQ	ENSG00000116560	1542.797	-0.823	0.253	-3.2509	0.0012	0.044778332	1547.097	-0.849	0.266	-3.1934	0.0014	0.040843893
GADD45A	ENSG00000116717	3873.941	-1.673	0.282	-5.9592	0	3.00E-06	5468.555	-2.222	0.296	-7.548	0	1.57E-10
ETV3	ENSG00000117036	595.586	-0.911	0.306	-2.9852	0.0028	0.079617297	775.472	-1.336	0.329	-4.0772	0	0.003552424
PIK3R3	ENSG00000117461	100.432	-1.445	0.393	-4.2851	0	0.002563053	188.667	-3.243	0.385	-8.5497	0	1.32E-13
SYF2	ENSG00000117614	1067.778	0.917	0.244	3.7512	2.00E-04	0.012903937	1015.803	1.064	0.277	3.8307	1.00E-04	0.007142571
LGALS1	ENSG00000119862	653.363	-1.523	0.366	-4.2862	0	0.002563053	630.228	-1.41	0.431	-3.3919	7.00E-04	0.025462477
GNA13	ENSG00000120063	1566.612	-1.265	0.343	-3.7344	2.00E-04	0.013427167	1483.53	-1.202	0.394	-3.0893	0.002	0.051775537
EGR1	ENSG00000120738	9346.843	1.059	0.247	4.2883	0	0.002563053	8422.916	1.446	0.239	6.0522	0	8.47E-07
DUSP4	ENSG00000120875	666.946	-2.614	0.364	-7.6124	0	9.56E-11	819.238	-3.113	0.394	-8.2049	0	1.23E-12
NAA50	ENSG00000121579	1091.202	-0.803	0.277	-2.905	0.0037	0.091929974	1092.838	-0.83	0.294	-2.8312	0.0046	0.087014535
LY9	ENSG00000122224	5020.083	-0.891	0.271	-3.2872	0.001	0.041347216	5081.371	-0.922	0.302	-3.063	0.0022	0.054648759
MED13L	ENSG00000123066	606.925	-1.814	0.321	-5.7117	0	9.18E-06	558.774	-1.614	0.393	-4.1781	0	0.002551353
ADGRE5	ENSG00000123146	2586.673	-1.337	0.29	-4.6304	0	0.000734408	3139.512	-1.566	0.35	-4.5109	0	0.000782923
FGL2	ENSG00000127951	1882.792	-0.986	0.337	-2.9476	0.0032	0.08538349	2270.246	-1.323	0.354	-3.7631	2.00E-04	0.008737786
KRI1	ENSG00000129347	301.871	0.953	0.285	3.3385	8.00E-04	0.036661157	299.315	1.002	0.308	3.2438	0.0012	0.037296581
RAB2B	ENSG00000129472	317.024	-1.177	0.32	-3.6989	2.00E-04	0.014799016	321.204	-1.249	0.345	-3.6355	3.00E-04	0.013162267
ZNF331	ENSG00000130844	3036.43	-1.376	0.286	-4.8286	0	0.000349123	2516.247	-1.181	0.27	-4.3726	0	0.001242822
AAR2	ENSG00000131043	383.883	1.273	0.361	3.4826	5.00E-04	0.026087251	441.436	1.091	0.318	3.4283	6.00E-04	0.023650229
PPFIA1	ENSG00000131626	283.26	-1.116	0.324	-3.462	5.00E-04	0.027329349	281.394	-1.169	0.345	-3.4019	7.00E-04	0.025069496
TRIM5	ENSG00000132256	124.627	-1.464	0.36	-4.1447	0	0.004013959	112.267	-1.24	0.432	-2.9505	0.0032	0.068565133
AP3B1	ENSG00000132842	842.423	-0.926	0.263	-3.5341	4.00E-04	0.022377237	855.86	-0.962	0.293	-3.2893	0.001	0.032986629
CASP9	ENSG00000132906	95.548	-1.087	0.378	-2.9597	0.0031	0.083976825	114.131	-1.25	0.436	-2.971	0.003	0.065471236
PIK3C2B	ENSG00000133056	103.478	-1.363	0.39	-3.7644	2.00E-04	0.012363243	134.96	-1.632	0.446	-3.9728	1.00E-04	0.004861448
SBF2	ENSG00000133812	134.375	-1.41	0.392	-3.9638	1.00E-04	0.006927275	126.092	-1.385	0.451	-3.3647	8.00E-04	0.027361807
EDEM1	ENSG00000134109	4688.356	-1.139	0.276	-4.1382	0	0.004013959	4593.271	-1.132	0.3	-3.7847	2.00E-04	0.008193687
APC	ENSG00000134982	402.697	-1.327	0.339	-3.9628	1.00E-04	0.006927275	330.511	-1.12	0.375	-3.0114	0.0026	0.060345118
AHI1	ENSG00000135541	389.577	-1.045	0.307	-3.4174	6.00E-04	0.030358225	507.934	-1.464	0.332	-4.4267	0	0.001030205
CKAP2	ENSG00000136108	144.097	-1.268	0.367	-3.5343	4.00E-04	0.022377237	233.156	-1.729	0.425	-4.2279	0	0.002081362

UGGT1	ENSG00000136731	1209.869	-1.323	0.318	-4.1954	0	0.003377505	1037.93	-1.162	0.344	-3.3922	7.00E-04	0.025462477
IL11RA	ENSG00000137070	74.118	-1.352	0.388	-4.5502	0	0.000985511	49.919	-0.898	0.426	-2.8649	0.0042	0.082035581
SLC05A1	ENSG00000137571	119.559	-1.993	0.353	-5.7664	0	7.85E-06	94.334	-1.151	0.452	-2.7805	0.0054	0.096636178
ADAM10	ENSG00000137845	963.842	-1.076	0.277	-3.8905	1.00E-04	0.008671762	964.203	-1.11	0.295	-3.7733	2.00E-04	0.008470362
FNBP1L	ENSG00000137942	68.811	-1.734	0.39	-6.7519	0	3.89E-08	25.754	-0.54	0.357	-3.6381	3.00E-04	0.013088435
GAS8	ENSG00000141013	78.154	-1.09	0.3879	-3.3879	7.00E-04	0.031288694	124.422	-1.358	0.449	-3.8026	1.00E-04	0.007880226
PIK3R5	ENSG00000141506	95.605	-3.226	0.384	-8.0887	0	6.43E-12	102.625	-2.26	0.452	-7.153	0	1.13E-09
TMEM91	ENSG00000142046	40.351	-1.534	0.393	-4.4936	0	0.001230358	31.442	-1.284	0.451	-3.2969	0.001	0.032337694
RGS16	ENSG00000143333	780.331	0.91	0.273	3.333	9.00E-04	0.036794754	730.495	1.133	0.285	3.9758	1.00E-04	0.004831785
FBXO28	ENSG00000143756	228.38	-1.388	0.362	-3.9241	1.00E-04	0.007734453	266.471	-1.624	0.405	-4.101	0	0.00326712
GIN1	ENSG00000145723	45.725	-1.209	0.388	-3.8386	1.00E-04	0.009917352	69.685	-1.561	0.451	-4.3194	0	0.001504749
TBC1D7	ENSG00000145979	259.93	1.192	0.333	3.5559	4.00E-04	0.021559757	263.599	1.235	0.345	3.5671	4.00E-04	0.015862536
TACC1	ENSG00000147526	761.892	-0.94	0.258	-3.6474	3.00E-04	0.016991472	844.999	-1.1	0.3	-3.6736	2.00E-04	0.011602925
FAM171A1	ENSG00000148468	88.291	-2.874	0.389	-7.814	0	2.95E-11	81.824	-1.112	0.425	-5.6866	0	5.12E-06
FADS1	ENSG00000149485	426.281	1.092	0.342	3.1713	0.0015	0.053396916	376.334	1.281	0.434	2.9014	0.0037	0.075826764
MTMR12	ENSG00000150712	506.184	-1.289	0.28	-4.614	0	0.000780006	503.73	-1.17	0.374	-3.1488	0.0016	0.045258114
CRIM1	ENSG00000150938	214.517	-1.103	0.368	-3.0654	0.0022	0.066597211	262.016	-1.216	0.436	-2.8879	0.0039	0.077831169
USP12	ENSG00000152484	370.246	-1.313	0.304	-4.3423	0	0.002179246	426.731	-1.389	0.387	-3.6293	3.00E-04	0.013362278
BCL2L11	ENSG00000153094	1397.194	-1.355	0.279	-4.8635	0	0.000336026	1609.812	-1.626	0.286	-5.7011	0	4.89E-06
NR4A2	ENSG00000153234	3249.843	-1.383	0.251	-5.51	0	2.04E-05	2701.203	-1.042	0.331	-3.163	0.0016	0.043869942
LRRK1	ENSG00000154237	721.655	-0.992	0.307	-3.2472	0.0012	0.044858991	913.794	-1.403	0.315	-4.4687	0	0.000909023
PLCL2	ENSG00000154822	469.464	-1.106	0.292	-3.7931	1.00E-04	0.011428329	464.672	-1.086	0.34	-3.2101	0.0013	0.039640111
RGS12	ENSG00000159788	86.712	-1.794	0.389	-5.0929	0	0.000129676	50.067	-1.145	0.452	-2.841	0.0045	0.085562541
CDC42EP3	ENSG00000163171	482.06	-1.31	0.303	-4.3478	0	0.002156563	448.326	-1.202	0.352	-3.4301	6.00E-04	0.023650229
SERPIN1	ENSG00000163536	591.147	-1.135	0.269	-4.2196	0	0.00318246	593.885	-1.113	0.329	-3.393	7.00E-04	0.025462477
DTX3L	ENSG00000163840	122.127	-1.11	0.392	-3.0957	0.002	0.060857529	161.463	-1.432	0.447	-3.4936	5.00E-04	0.019490774
ANKRD33B	ENSG00000164236	57.1	-0.967	0.38	-3.166	0.0015	0.054027887	76.631	-1.163	0.444	-3.3346	9.00E-04	0.029606699
UTP15	ENSG00000164338	107.395	-2.121	0.357	-6.089	0	1.73E-06	180.024	-2.753	0.399	-7.1105	0	1.37E-09
TAGAP	ENSG00000164691	6655.546	-0.835	0.245	-3.4075	7.00E-04	0.030740964	6637.583	-0.863	0.238	-3.6301	3.00E-04	0.013362278
TP53INP1	ENSG00000164938	7123.694	-0.812	0.207	-3.9299	1.00E-04	0.007734453	8826.131	-1.151	0.263	-4.3715	0	0.001242822
CFL2	ENSG00000165410	1493.965	-1.593	0.3	-5.3519	0	4.42E-05	993.966	-1.034	0.339	-3.0579	0.0022	0.055211923
RP11-382A21	ENSG00000166503	97.874	-1.288	0.39	-4.0542	1.00E-04	0.005158556	60.141	-1.113	0.45	-2.8521	0.0043	0.083992435
DPEP2	ENSG00000167261	339.594	1.057	0.352	2.9736	0.0029	0.081719817	285.806	1.007	0.441	3.0543	0.0023	0.055605955
THAP11	ENSG00000168286	612.001	1.042	0.249	4.1798	0	0.003575269	597.945	1.086	0.309	3.504	5.00E-04	0.018891928
POLR3D	ENSG00000168495	558.879	0.903	0.248	3.6447	3.00E-04	0.016991472	510.253	1.17	0.286	4.0797	0	0.003538853
GPR183	ENSG00000169508	764.205	-1.143	0.32	-3.5916	3.00E-04	0.019799503	782.389	-1.167	0.372	-3.1615	0.0016	0.043926173
SYAP1	ENSG00000169895	1575.352	-0.982	0.275	-3.5721	4.00E-04	0.020982069	1575.327	-0.958	0.335	-2.8716	0.0041	0.081023468
SERPINB9	ENSG00000170542	2128.974	-1.899	0.287	-6.6532	0	6.12E-08	2377.349	-2.113	0.307	-6.9044	0	5.38E-09
TPPP	ENSG00000171368	147.22	-1.86	0.392	-5.6425	0	1.23E-05	88.98	-1.092	0.441	-3.1555	0.0016	0.044651832
PRNP	ENSG00000171867	1589.005	-1.092	0.301	-3.6466	3.00E-04	0.016991472	1331.351	-0.899	0.287	-3.1385	0.0017	0.046015715
RND1	ENSG00000172602	288.981	-1.326	0.337	-3.982	1.00E-04	0.006625046	270.099	-1.232	0.39	-3.1895	0.0014	0.041125179
KAT5	ENSG00000172977	773.631	1.076	0.259	4.1405	0	0.004013959	836.617	0.896	0.247	3.6219	3.00E-04	0.013694447
HSPA6	ENSG00000173110	3454.466	-1.116	0.393	-3.1079	0.0019	0.06033423	3609.311	-1.539	0.433	-3.7146	2.00E-04	0.010397014
NABP1	ENSG00000173559	851.488	-1.371	0.296	-4.6614	0	0.000656564	1130.479	-1.753	0.342	-5.1673	0	5.76E-05
DENND4A	ENSG00000174485	564.234	-1.018	0.327	-3.1337	0.0017	0.056987469	738.706	-1.527	0.316	-4.8509	0	0.000208258
ANKRD36C	ENSG00000174501	724.717	-0.931	0.317	-2.9559	0.0031	0.084238029	889.925	-1.324	0.31	-4.2763	0	0.001733541
C4orf26	ENSG00000174792	194.368	-1.712	0.383	-4.7701	0	0.000417853	176.72	-1.684	0.438	-4.0667	0	0.00363691
FUT1	ENSG00000174951	63.553	-1.549	0.393	-4.5724	0	0.000918304	50.982	-1.613	0.45	-3.9677	1.00E-04	0.00493415
ZDHHC14	ENSG00000175048	477.227	0.962	0.28	3.4273	6.00E-04	0.02981255	424.383	1.185	0.384	3.0635	0.0022	0.054648759
FOSL1	ENSG00000175592	74.827	-1.056	0.373	-4.2598	0	0.00276216	92.579	-1.124	0.432	-4.0666	0	0.00363691
TCP11L1	ENSG00000176148	197.992	-1.467	0.39	-4.1086	0	0.004376605	216.553	-1.98	0.421	-4.9028	0	0.000171059
ZSCAN2	ENSG00000176371	155.65	-1.048	0.371	-2.8789	0.004	0.096917086	183.975	-1.226	0.427	-2.9404	0.0033	0.070234387
CADM1	ENSG00000182985	765	-1.785	0.352	-5.1939	0	8.45E-05	845.608	-2.019	0.385	-5.3439	0	2.62E-05
UTY	ENSG00000183878	181.893	1.671	0.392	4.1558	0	0.003927494	169.071	2.255	0.452	4.9129	0	0.000169316
SOCS3	ENSG00000184557	4222.974	-1.063	0.252	-4.222	0	0.00318246	4725.244	-1.267	0.267	-4.7458	0	0.000330823
PDE4B	ENSG00000184588	12047.532	-1.109	0.221	-5.0245	0	0.000179397	10709.111	-0.898	0.273	-3.2958	0.001	0.032337694
RBM33	ENSG00000184863	2035.766	-1.183	0.288	-4.1244	0	0.00421698	1812.33	-1.053	0.3	-3.5125	4.00E-04	0.018842339
TNFAIP2	ENSG00000185215	1149.667	-1.171	0.392	-3.4432	6.00E-04	0.028507853	665.542	-1.258	0.435	-2.9942	0.0028	0.062493006
LSAMP	ENSG00000185565	65.5	-1.747	0.392	-5.4407	0	2.83E-05	38.756	-0.921	0.423	-3.0969	0.002	0.051117116
UBE2H	ENSG00000186591	2621.808	-1.002	0.265	-3.7894	2.00E-04	0.011428329	2743.278	-1.073	0.304	-3.5348	4.00E-04	0.017711104
TMEM216	ENSG00000187049	366.437	0.996	0.271	3.6645	2.00E-04	0.016410227	324.148	1.145	0.41	2.768	0.0056	0.098704588
CD55	ENSG00000196352	3844.471	-1.163	0.3	-3.8906	1.00E-04	0.008671762	3484.713	-1.045	0.331	-3.1666	0.0015	0.043552939
PTPN1	ENSG00000196396	1210.362	-1.579	0.326	-4.9047	0	0.000302357	1276.189	-1.778	0.334	-5.3619	0	2.51E-05
TLE1	ENSG00000196781	112.775	-1.528	0.392	-4.8053	0	0.000366084	119.145	-1.669	0.452	-4.4955	0	0.000814184
STRN3	ENSG00000196792	188.988	-1.22	0.347	-3.5625	4.00E-04	0.021414858	187.856	-1.299	0.373	-3.5087	5.00E-04	0.018874833
PPTC7	ENSG00000196850	328.358	-1.476	0.287	-5.159	0	9.45E-05	287.184	-1.119	0.398	-2.8449	0.0044	0.084999993
PIM3	ENSG00000198355	2230.764	-1.36	0.295	-4.6319	0	0.000734408	2153.566	-1.368	0.31	-4.4297	0	0.001027924
BAZ1A	ENSG00000198604	294.298	-1.34	0.326	-4.1398	0	0.004013959	360.401	-1.622	0.369	-4.4355	0	0.001010807
ZNF616	ENSG00000204611	112.551	1.228	0.393	3.0422	0.0023	0.0701466	119.097	1.304	0.436	2.9344	0.0033	0.070787903
SLC35B4	ENSG00000205060	122.299	-1.404	0.39	-4.6927	0	0.000579578	122.882	-1.391	0.449	-4.0563	0	0.003748575
TRIQK	ENSG00000205133	94.285	-1.204	0.393	-3.3982	7.00E-04	0.0309574	112.609	-1.606	0.447	-3.8599	1.00E-04	0.006652967

CCNL2	ENSG00000221978	2053.843	-0.818	0.281	-2.9196	0.0035	0.089287781	2354.989	-1.063	0.297	-3.5847	3.00E-04	0.015261837
C4B	ENSG00000224389	5004.977	-1.181	0.392	-3.4815	5.00E-04	0.026087251	4386.795	-1.405	0.449	-3.3994	7.00E-04	0.025204726
PECAM1	ENSG00000261371	5160.352	-0.849	0.174	-4.8794	0	0.000324111	4974.213	-0.781	0.205	-3.8026	1.00E-04	0.007880226
RP11-599B1	ENSG00000263620	88.16	-1.385	0.387	-4.9307	0	0.000281858	67.859	-1.353	0.447	-4.0268	1.00E-04	0.004161743
NOTCH2NL	ENSG00000264343	479.194	-1.572	0.337	-4.7353	0	0.000485977	404.783	-1.237	0.417	-3.0255	0.0025	0.059150559
ACACA	ENSG00000275176	95.444	-1.839	0.392	-5.29	0	5.67E-05	105.674	-2.014	0.449	-5.0456	0	9.85E-05

Genes that are differentially expressed between TG2 VS NonTg2 PCs of CeD patients. Neagtive fold-change indicates increased ex

Gene	ENSEMBL_ID	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
CLU	ENSG00000120885	373.8095575	-1.317	0.2443	-5.714068889	1.10E-08	7.37E-06
TPSAB1	ENSG00000172236	159.3965827	-1.276	0.2545	-5.028488553	4.94E-07	0.000195785
CXCL10	ENSG00000169245	1684.92317	-1.16	0.2178	-5.49805053	3.84E-08	2.05E-05
CXCR3	ENSG00000186810	398.3635931	-1.121	0.1739	-6.447688139	1.14E-10	1.35E-07
MDM2	ENSG00000135679	3173.902431	-1.036	0.1442	-7.192650652	6.35E-13	2.26E-09
PBLD	ENSG00000108187	94.20783976	-1.03	0.2486	-4.122534742	3.75E-05	0.004299637
TNFSF9	ENSG00000125657	373.2477952	-1.025	0.2203	-4.706786602	2.52E-06	0.000625794
YBX3	ENSG00000060138	414.136524	-0.958	0.1761	-5.424787064	5.80E-08	2.95E-05
ATP8B1	ENSG00000081923	67.16215428	-0.946	0.2516	-4.290380494	1.78E-05	0.002445232
UNC13C	ENSG00000137766	163.9253723	-0.908	0.2446	-3.549626448	0.000385778	0.020939724
MEIS1	ENSG00000143995	69.80245035	-0.89	0.2523	-3.557414405	0.000374523	0.020689312
CLEC2B	ENSG00000110852	1349.595534	-0.879	0.1802	-4.910906337	9.07E-07	0.000334272
VIL1	ENSG00000127831	276.4574777	-0.853	0.2494	-3.137378729	0.001704658	0.056857366
MALL	ENSG00000144063	331.7429905	-0.852	0.2532	-2.943281571	0.003247529	0.086382656
EZH2	ENSG00000106462	152.8969229	-0.847	0.247	-3.556528524	0.000375788	0.020689312
EHMT1	ENSG00000181090	3961.569394	-0.846	0.1344	-6.368685679	1.91E-10	2.04E-07
PAPD7	ENSG00000112941	682.7928754	-0.838	0.1721	-4.923440288	8.50E-07	0.000324746
ANKRD10	ENSG00000088448	1428.216851	-0.825	0.1487	-5.588057793	2.30E-08	1.44E-05
NPEPL1	ENSG00000215440	872.2078585	-0.813	0.1904	-4.304590912	1.67E-05	0.002323222
CLEC2D	ENSG00000069493	328.440627	-0.809	0.2362	-3.598991622	0.000319453	0.018564761
FLVCR1	ENSG00000162769	110.3268736	-0.794	0.2437	-3.696408517	0.000218671	0.014893306
TRIM25	ENSG00000121060	263.073961	-0.778	0.2537	-3.634095925	0.000278957	0.017342372
EXD3	ENSG00000187609	122.1524973	-0.777	0.2501	-3.340160415	0.0008373	0.035619775
LPIN2	ENSG00000101577	121.6890489	-0.775	0.2449	-3.030139564	0.002444408	0.072027691
CCDC14	ENSG00000175455	505.514583	-0.767	0.2453	-3.746223736	0.000179516	0.013147739
EMP2	ENSG00000213853	110.626313	-0.76	0.2545	-3.455810386	0.000548641	0.027542815
CCDC169	ENSG00000242715	78.70379185	-0.759	0.2416	-3.882909547	0.000103214	0.009121215
PRSS51	ENSG00000253649	71.00998785	-0.75	0.2455	-3.693899662	0.000220841	0.014945902
NPIP5	ENSG00000243716	2147.663128	-0.739	0.1609	-4.734285672	2.20E-06	0.000587655
CCDC50	ENSG00000152492	1690.14147	-0.731	0.1545	-4.73995265	2.14E-06	0.000586108

ZEB2	ENSG00000169554	78.77884481	-0.73	0.2542	-2.983950528	0.002845528	0.078420692
SLC7A11	ENSG00000151012	200.544782	-0.729	0.2538	-3.61477636	0.000300607	0.017874011
N4BP2	ENSG00000078177	631.3511318	-0.729	0.2054	-3.624785982	0.000289201	0.017570594
IFRD1	ENSG00000006652	1729.58468	-0.721	0.1414	-5.133226607	2.85E-07	0.000126898
RGPD2	ENSG00000185304	809.8688319	-0.716	0.2484	-3.6145402	0.000300881	0.017874011
KIAA0907	ENSG00000132680	196.5628346	-0.71	0.2314	-3.216096708	0.00129947	0.048415458
ETFDH	ENSG00000171503	711.2921753	-0.709	0.213	-3.447957121	0.000564844	0.027683234
OGT	ENSG00000147162	4327.013431	-0.708	0.1617	-4.506909135	6.58E-06	0.001192157
FCHSD1	ENSG00000197948	170.5514739	-0.703	0.2448	-3.037425324	0.002386085	0.071661197
PLCB2	ENSG00000137841	206.315041	-0.703	0.2297	-3.222055241	0.001272746	0.047585568
CWC25	ENSG00000273559	597.4433707	-0.692	0.2128	-3.352810736	0.000799954	0.03449156
DDX42	ENSG00000198231	744.6320645	-0.69	0.2257	-3.032996018	0.002421388	0.071921948
GBP2	ENSG00000162645	398.8802647	-0.687	0.2104	-3.36143083	0.000775398	0.033890604
HIST1H2AG	ENSG00000196787	153.3601475	-0.687	0.2275	-3.111650728	0.001860445	0.060837111
ACADVL	ENSG00000072778	15780.04704	-0.686	0.0997	-6.896056492	5.35E-12	8.17E-09
TIAM2	ENSG00000146426	446.3270461	-0.685	0.212	-3.223097493	0.001268124	0.047579117
CES4A	ENSG00000172824	130.5694718	-0.683	0.2501	-3.495414075	0.000473327	0.024810214
COX20	ENSG00000203667	356.8561484	-0.679	0.1981	-3.396411941	0.000682755	0.031468541
FAM118A	ENSG00000100376	621.592242	-0.678	0.2257	-3.29838016	0.000972444	0.039793183
HSPA14	ENSG00000187522	387.1347924	-0.677	0.2176	-3.092570491	0.001984311	0.063800117
IARS	ENSG00000196305	2484.894622	-0.677	0.1822	-3.768139657	0.000164469	0.012472792
HIST1H2BC	ENSG00000180596	360.6042932	-0.675	0.206	-3.297639295	0.000975013	0.039793183
KLHL26	ENSG00000167487	72.71465516	-0.674	0.2497	-3.569500303	0.000357663	0.020226305
KMO	ENSG00000117009	275.40897	-0.67	0.2125	-3.15744551	0.00159158	0.055471186
EPG5	ENSG00000152223	280.5615469	-0.667	0.2532	-3.172895251	0.00150927	0.053560953
FBXW2	ENSG00000119402	450.1180173	-0.66	0.2024	-3.419906137	0.000626427	0.029770617
PCF11	ENSG00000165494	1146.50643	-0.655	0.1399	-4.708621998	2.49E-06	0.000625794
TUBGCP6	ENSG00000128159	1542.843605	-0.651	0.1422	-4.615035571	3.93E-06	0.000827223
MT-ATP8	ENSG00000228253	6114.166236	-0.648	0.1647	-3.973459494	7.08E-05	0.006949097
NFKBID	ENSG00000167604	862.3016584	-0.646	0.2539	-2.998378359	0.002714205	0.075976419
PTPRC	ENSG00000081237	1265.242653	-0.642	0.1785	-3.554131264	0.00037923	0.020689312
PHLDA3	ENSG00000174307	95.00085031	-0.64	0.2265	-2.9033681	0.003691724	0.093470378

WDR24	ENSG00000127580	382.9216085	-0.638	0.1841	-3.453498673	0.000553365	0.027556447
CEP83	ENSG00000173588	251.2117459	-0.637	0.24	-2.927660954	0.003415222	0.089070666
SMCHD1	ENSG00000101596	1533.096264	-0.633	0.1944	-3.3106781	0.000930702	0.038276912
GBP5	ENSG00000154451	482.8401384	-0.63	0.1663	-3.82778951	0.000129299	0.010717806
CCDC189	ENSG00000196118	353.4691789	-0.628	0.1595	-3.928719277	8.54E-05	0.007872211
GOLGB1	ENSG00000173230	4664.025696	-0.626	0.1426	-4.414820007	1.01E-05	0.001613431
TEX14	ENSG00000121101	356.624974	-0.625	0.2244	-2.975444603	0.002925642	0.079756681
STK17B	ENSG00000081320	3252.704692	-0.624	0.0857	-7.284157636	3.24E-13	1.73E-09
ABCA7	ENSG00000064687	598.2427746	-0.621	0.1893	-3.256937312	0.001126213	0.043791258
HLA-DQA1	ENSG00000196735	714.5119866	-0.616	0.2181	-2.969478791	0.002983054	0.080958875
LAT2	ENSG00000086730	453.4859852	-0.61	0.1904	-3.245930201	0.001170675	0.04508596
GPR89B	ENSG00000188092	460.2505766	-0.61	0.2122	-2.943751378	0.003242604	0.086382656
CNTRL	ENSG00000119397	467.6045907	-0.605	0.2102	-2.927953694	0.003412009	0.089070666
IL15	ENSG00000164136	500.9620153	-0.605	0.1743	-3.449518418	0.000561587	0.027683234
METTL17	ENSG00000165792	657.327904	-0.603	0.1869	-3.201330717	0.001367944	0.050093932
MPV17L	ENSG00000156968	149.4279178	-0.602	0.2535	-2.880992599	0.003964249	0.097523581
IP6K2	ENSG00000068745	614.1451634	-0.602	0.2042	-2.984148507	0.002843687	0.078420692
MAP3K13	ENSG00000073803	1172.527335	-0.6	0.1696	-3.515189763	0.00043944	0.023377763
FN1	ENSG00000115414	182.3915796	-0.599	0.2331	-3.339449939	0.000839445	0.035619775
SYNE2	ENSG00000054654	1400.976774	-0.595	0.2024	-3.133980764	0.001724522	0.057090742
SPTLC2	ENSG00000100596	377.9966632	-0.594	0.2131	-2.888913883	0.003865749	0.096676342
SLC28A3	ENSG00000197506	139.4911902	-0.593	0.2326	-3.6878244	0.00022618	0.015074959
SGSM3	ENSG00000100359	2723.99723	-0.587	0.1412	-4.174507984	2.99E-05	0.003670412
HECTD1	ENSG00000092148	943.368037	-0.584	0.1807	-3.33116083	0.000864846	0.036408663
SEC16A	ENSG00000148396	1257.675845	-0.584	0.1824	-3.269460055	0.00107753	0.042051179
MT-CO2	ENSG00000198712	76021.19357	-0.583	0.1593	-3.683784084	0.000229797	0.015074959
LUC7L	ENSG00000007392	691.1620511	-0.582	0.1876	-3.211250343	0.001321587	0.049068524
STARD4	ENSG00000164211	543.0023622	-0.576	0.1592	-3.62642459	0.000287373	0.017570594
CCDC88C	ENSG00000015133	1800.404583	-0.564	0.1473	-3.837368696	0.00012436	0.010548537
PRC1	ENSG00000198901	43.39090436	-0.563	0.2233	-3.068454806	0.002151689	0.066883743
RAB30	ENSG00000137502	9289.372246	-0.555	0.085	-6.523877718	6.85E-11	9.16E-08
CCT6A	ENSG00000146731	665.1014083	-0.551	0.1829	-3.018620386	0.002539285	0.073020166

NPIPA1	ENSG00000183426	551.6611054	-0.549	0.1963	-2.875646231	0.004032013	0.098434517
FAM49A	ENSG00000197872	2229.444675	-0.548	0.1641	-3.327300473	0.000876918	0.036772079
NUP160	ENSG00000030066	473.8442338	-0.547	0.1888	-2.942054057	0.00326043	0.086510617
OAT	ENSG00000065154	1349.475007	-0.539	0.1822	-2.873405635	0.004060724	0.098909609
GALNT3	ENSG00000115339	621.870519	-0.53	0.1697	-3.141487037	0.001680922	0.05652234
CCL5	ENSG00000271503	533.1362431	-0.528	0.1792	-2.933171574	0.003355184	0.088411589
GADD45A	ENSG00000116717	6571.771746	-0.526	0.118	-4.46626856	7.96E-06	0.00132987
CXXC1	ENSG00000154832	1335.643793	-0.52	0.1584	-3.280955272	0.001034561	0.040972467
GOLGA7	ENSG00000147533	670.4740371	-0.513	0.1611	-3.170285623	0.001522892	0.053743498
MT-ND5	ENSG00000198786	67656.28776	-0.513	0.1273	-4.029844348	5.58E-05	0.005738625
MT-ATP6	ENSG00000198899	48191.31334	-0.507	0.1464	-3.486770276	0.000488891	0.025133234
FNBP4	ENSG00000109920	1101.633134	-0.505	0.1708	-2.961719665	0.003059262	0.082607795
ZRANB2	ENSG00000132485	1422.749415	-0.502	0.1414	-3.568235207	0.000359394	0.020226305
NPIPB4	ENSG00000185864	436.2315897	-0.5	0.172	-2.932894748	0.003358177	0.088411589
ZNF791	ENSG00000173875	2255.846341	-0.493	0.127	-3.888998004	0.000100659	0.009044925
DYNLT1	ENSG00000146425	778.5426442	-0.49	0.1682	-2.885870804	0.003903324	0.096698881
FNBP1	ENSG00000187239	1961.111068	-0.49	0.1708	-2.917271279	0.003531085	0.090982876
BTAFL1	ENSG00000095564	1083.463127	-0.484	0.1749	-2.885910919	0.003902826	0.096698881
CD69	ENSG00000110848	29109.72728	-0.483	0.1471	-3.36103573	0.000776508	0.033890604
ARGLU1	ENSG00000134884	1204.103896	-0.482	0.14	-3.453156829	0.000554067	0.027556447
MT-ND4	ENSG00000198886	62817.48917	-0.477	0.1385	-3.463629353	0.00053294	0.026880804
CDK5RAP3	ENSG00000108465	3106.78182	-0.477	0.13	-3.684410611	0.000229232	0.015074959
PNISR	ENSG00000132424	1654.689311	-0.474	0.1601	-2.98885688	0.002800233	0.077944989
CPSF1	ENSG00000071894	1075.613358	-0.47	0.1547	-3.062585181	0.00219434	0.067815257
MGEA5	ENSG00000198408	1811.368787	-0.469	0.1249	-3.800190346	0.000144585	0.011529843
SUPT7L	ENSG00000119760	517.5987937	-0.468	0.1546	-3.01119829	0.002602189	0.073611648
HLA-DPA1	ENSG00000168384	839.3762912	-0.459	0.1483	-3.079622653	0.00207263	0.06530345
ODF3B	ENSG00000177989	732.8627417	-0.448	0.1362	-3.284859141	0.001020334	0.040637357
TROVE2	ENSG00000116747	1307.383399	-0.446	0.1291	-3.465105684	0.000530023	0.026860367
MT-ND6	ENSG00000198695	20877.97199	-0.432	0.1343	-3.223208782	0.001267631	0.047579117
NOP58	ENSG00000055044	2655.70977	-0.43	0.1044	-4.122004798	3.76E-05	0.004299637
ORMDL1	ENSG00000128699	2371.916224	-0.429	0.1174	-3.663719114	0.000248579	0.016012405

EPS15	ENSG0000085832	1065.017535	-0.425	0.133	-3.210125481	0.00132677	0.049090505
NCOR1	ENSG00000141027	1699.457251	-0.421	0.1379	-3.043668698	0.002337124	0.070994846
DDX39A	ENSG00000123136	1149.720885	-0.42	0.1375	-3.048349521	0.002301021	0.070099202
NFKBIZ	ENSG00000144802	2017.847623	-0.41	0.1316	-3.13922604	0.001693947	0.056781749
Sep-01	ENSG00000180096	1609.154171	-0.406	0.1289	-3.149147419	0.001637476	0.056120281
HMG3	ENSG00000118418	1472.664784	-0.399	0.1296	-3.070127784	0.002139672	0.06670412
DOCK2	ENSG00000134516	1713.287814	-0.392	0.1247	-3.146572168	0.001651965	0.056256243
CBWD5	ENSG00000147996	1167.366947	-0.388	0.1126	-3.446983863	0.000566882	0.027683234
RGCC	ENSG00000102760	18864.581	-0.387	0.0846	-4.567146093	4.94E-06	0.000979022
CHKB	ENSG00000100288	1042.695584	-0.384	0.1276	-3.01607392	0.002560708	0.073252448
PSME2	ENSG00000100911	3899.986961	-0.381	0.1291	-2.94488397	0.003230758	0.086382656
INSIG1	ENSG00000186480	5734.323653	-0.378	0.1178	-3.152432948	0.00161916	0.055755531
SRSF6	ENSG00000124193	2283.688186	-0.367	0.1171	-3.144330824	0.001664671	0.056508985
OSBPL3	ENSG00000070882	3666.601785	-0.357	0.1056	-3.37939902	0.000726445	0.033054788
FGL2	ENSG00000127951	2710.601436	-0.352	0.093	-3.800137052	0.000144616	0.011529843
ANXA1	ENSG00000135046	71.65497675	-0.346	0.188	-4.614473115	3.94E-06	0.000827223
TMEM259	ENSG00000182087	2432.345737	-0.335	0.0993	-3.370636721	0.000749947	0.033413256
CLK1	ENSG00000013441	4683.609491	-0.332	0.1157	-2.88002317	0.003976459	0.097523581
RBM39	ENSG00000131051	6146.92217	-0.297	0.0823	-3.617134558	0.000297882	0.017874011
CCNC	ENSG00000112237	2183.096605	-0.284	0.0938	-3.027226349	0.002468091	0.072503555
SON	ENSG00000159140	3759.185552	-0.259	0.0843	-3.073081226	0.002118608	0.066434829
CCNG1	ENSG00000113328	2754.275994	-0.257	0.089	-2.885601868	0.00390666	0.096698881
GNL3	ENSG00000163938	3305.038382	-0.202	0.0694	-2.91283838	0.003581599	0.092062597
CFB	ENSG00000204359	124.7825812	-0.069	0.097	-4.040798452	5.33E-05	0.005584422
RP11-812E19	ENSG00000259680	1306.024735	-0.056	0.1727	4.804182819	1.55E-06	0.000503494
PTMA	ENSG00000187514	15725.37749	0.194	0.0628	3.085673794	0.002030915	0.064440872
SSR4	ENSG00000180879	56464.68684	0.226	0.0699	3.23777881	0.001204642	0.045746324
MIF	ENSG00000240972	4586.239323	0.23	0.077	2.988184737	0.002806399	0.077944989
GPR15	ENSG00000154165	389.9932838	0.233	0.1908	3.057868276	0.002229175	0.068299635
TMEM258	ENSG00000134825	4350.64639	0.247	0.0817	3.024178491	0.002493093	0.072837824
UBE2J1	ENSG00000198833	21121.66111	0.257	0.0852	3.019345976	0.002533211	0.073020166
GLA	ENSG00000102393	5591.790585	0.264	0.0731	3.610948292	0.000305079	0.018023287

ORMDL3	ENSG00000172057	2118.05405	0.266	0.0908	2.930968955	0.003379065	0.088559675
FKBP2	ENSG00000173486	8134.084556	0.273	0.0844	3.23735317	0.00120644	0.045746324
CD63	ENSG00000135404	8065.961299	0.274	0.0945	2.910835894	0.003604633	0.092432468
HLA-C	ENSG00000204525	44198.70495	0.275	0.0627	4.402656363	1.07E-05	0.001681529
SELT	ENSG00000198843	4786.754052	0.278	0.0807	3.443442061	0.00057436	0.027916489
SLC1A5	ENSG00000105281	2366.50482	0.288	0.0948	3.033698535	0.002415757	0.071921948
CLPTM1L	ENSG00000049656	8999.701009	0.289	0.0855	3.380984434	0.000722266	0.033005103
HSPA8	ENSG00000109971	22249.84458	0.294	0.0874	3.372000996	0.000746242	0.033387295
TMBIM6	ENSG00000139644	18351.90298	0.296	0.0657	4.507244944	6.57E-06	0.001192157
SIL1	ENSG00000120725	2876.213834	0.298	0.0767	3.883091372	0.000103137	0.009121215
RPS14	ENSG00000164587	13676.89267	0.304	0.0954	3.189329613	0.001426032	0.051865843
SLC25A6	ENSG00000169100	12335.14194	0.306	0.0705	4.333192216	1.47E-05	0.002152701
FOS	ENSG00000170345	53104.10993	0.309	0.0829	3.735656565	0.000187226	0.013346721
DDOST	ENSG00000244038	10727.23265	0.312	0.085	3.672133934	0.000240534	0.015683081
HLA-B	ENSG00000206450	50262.28541	0.315	0.0922	3.415044711	0.000637715	0.030092783
PRDX4	ENSG00000123131	9363.187599	0.315	0.109	2.902036214	0.003707457	0.093499612
RPN1	ENSG00000163902	12853.84879	0.317	0.1028	3.090322298	0.001999394	0.063902108
RPL38	ENSG00000172809	2297.171264	0.318	0.1029	3.093156117	0.001980399	0.063800117
RPL18A	ENSG00000105640	11826.36935	0.323	0.068	4.75528052	1.98E-06	0.000557643
EIF1	ENSG00000173812	26585.99171	0.323	0.0898	3.599972699	0.000318251	0.018564761
RNASEK	ENSG00000219200	2163.973238	0.326	0.1047	3.119692006	0.001810402	0.05956502
GPX4	ENSG00000167468	1846.468057	0.328	0.1034	3.164239311	0.001554889	0.054692193
GNG7	ENSG00000176533	2862.237558	0.328	0.11	2.980091362	0.002881624	0.079211332
CNPY2	ENSG00000257727	2208.593421	0.331	0.0973	3.39985437	0.000674218	0.031345252
CUTA	ENSG00000112514	2816.476738	0.332	0.1041	3.190151468	0.001421982	0.051865843
RPL14	ENSG00000188846	5622.29315	0.334	0.0992	3.365961143	0.000762775	0.033781872
RPS25	ENSG00000118181	6857.009042	0.338	0.1128	2.995677035	0.002738363	0.076452519
RPL41	ENSG00000229117	25950.09054	0.338	0.0925	3.654257223	0.000257928	0.01623885
IL2RG	ENSG00000147168	14263.17555	0.339	0.0758	4.472765404	7.72E-06	0.001313778
RPS5	ENSG00000083845	5924.335521	0.34	0.1153	2.951913185	0.003158117	0.084848608
HEXB	ENSG00000049860	3207.466902	0.341	0.0933	3.657236695	0.000254949	0.01623885
RPLP0	ENSG00000089157	19363.51079	0.344	0.0964	3.556317631	0.000376089	0.020689312

ACTB	ENSG00000075624	26463.69035	0.346	0.1186	2.923881857	0.003456959	0.089659477
RPL32	ENSG00000144713	3969.591475	0.347	0.1097	3.157635637	0.001590542	0.055471186
H3F3A	ENSG00000163041	2396.750164	0.352	0.1068	3.288931522	0.001005685	0.040394202
EIF4B	ENSG00000063046	4559.66059	0.352	0.1073	3.284316751	0.0010223	0.040637357
MYDGF	ENSG00000074842	5190.856417	0.353	0.0826	4.271235254	1.94E-05	0.002631198
RPL36A	ENSG00000241343	3311.404131	0.353	0.1088	3.241814337	0.001187714	0.045520512
RPL36	ENSG00000130255	4255.559217	0.356	0.1033	3.435860088	0.000590676	0.028323308
FAU	ENSG00000149806	5268.667397	0.358	0.1132	3.153469239	0.001613422	0.055755531
MZB1	ENSG00000170476	60592.19133	0.36	0.0754	4.783506309	1.72E-06	0.000511711
TXNDC5	ENSG00000239264	147967.439	0.365	0.0971	3.757768376	0.000171435	0.012730905
ITM2B	ENSG00000136156	5709.068614	0.367	0.1187	3.103712616	0.001911089	0.062302655
REEP5	ENSG00000129625	4627.573579	0.368	0.1152	3.186132523	0.001441885	0.052097909
SNTB1	ENSG00000172164	44.50242039	0.37	0.2057	3.798959055	0.000145305	0.011529843
NME2	ENSG00000243678	2848.169948	0.37	0.129	2.878905391	0.00399058	0.097645938
CNKSR2	ENSG00000149970	52.25341956	0.37	0.2192	3.079078257	0.002076421	0.06530345
RPL23A	ENSG00000198242	15212.32038	0.371	0.0982	3.774165483	0.000160544	0.012262134
HINT1	ENSG00000169567	2966.840071	0.372	0.099	3.757755947	0.000171444	0.012730905
RPL29	ENSG00000162244	5358.441808	0.374	0.0819	4.569173593	4.90E-06	0.000979022
EEF1A1	ENSG00000156508	98930.28607	0.375	0.0906	4.12923442	3.64E-05	0.004276885
AMPD1	ENSG00000116748	3596.894167	0.375	0.1295	2.923342499	0.003462954	0.089659477
FERMT2	ENSG00000073712	90.06712678	0.378	0.2414	3.05786942	0.002229167	0.068299635
RPL15	ENSG00000174748	21123.33037	0.379	0.0962	3.939819614	8.15E-05	0.007785163
UBA52	ENSG00000221983	2082.052507	0.384	0.1034	3.710136128	0.000207148	0.014239355
RPL24	ENSG00000114391	3583.18579	0.385	0.1127	3.414566945	0.000638835	0.030092783
ERGIC1	ENSG00000113719	1466.657483	0.388	0.1274	3.049594693	0.002291504	0.070008715
DNAJC4	ENSG00000110011	750.3377073	0.389	0.1292	3.011620618	0.002598571	0.073611648
RPS8	ENSG00000142937	6672.457897	0.389	0.1309	2.97747105	0.002906371	0.079482926
PCMTD1	ENSG00000168300	2415.563898	0.393	0.1311	3.019750867	0.002529827	0.073020166
HSPB1	ENSG00000106211	4119.975453	0.394	0.1326	2.963148932	0.003045092	0.082433338
CTSS	ENSG00000163131	3915.301515	0.397	0.1289	3.070206232	0.00213911	0.06670412
RPL35A	ENSG00000182899	4466.884521	0.399	0.1256	3.172234131	0.00151271	0.053560953
RPS11	ENSG00000142534	8872.61176	0.4	0.1069	3.739557142	0.000184345	0.013308111

HSPA1B	ENSG00000204388	19078.49121	0.4	0.1234	3.245569602	0.001172159	0.04508596
GUSB	ENSG00000169919	3163.796659	0.402	0.1054	3.815897308	0.000135689	0.011160937
EVI2B	ENSG00000185862	2826.817697	0.403	0.1342	3.012149576	0.002594047	0.073611648
ZNF717	ENSG00000227124	41.39067002	0.404	0.2252	2.978914836	0.002892712	0.07931222
RPS20	ENSG00000008988	3898.133102	0.405	0.127	3.184129396	0.001451901	0.052097909
EIF3F	ENSG00000175390	3055.19264	0.407	0.1182	3.432883071	0.0005972	0.028508282
RPL13A	ENSG00000142541	14276.09284	0.407	0.0908	4.477354875	7.56E-06	0.001313778
RPL19	ENSG00000108298	9306.745235	0.408	0.1006	4.051404747	5.09E-05	0.005390019
LMO4	ENSG00000143013	1596.938445	0.408	0.1348	3.024708965	0.002488725	0.072837824
SLC39A8	ENSG00000138821	2285.853275	0.411	0.1347	3.067071865	0.002161669	0.066999201
RNPEPL1	ENSG00000142327	1452.135247	0.413	0.143	2.889713078	0.003855936	0.096676342
LITAF	ENSG00000189067	2449.317655	0.415	0.1047	3.960581523	7.48E-05	0.007202599
TIGD6	ENSG00000164296	113.4113408	0.419	0.2313	2.918786772	0.003513965	0.090760452
POU2AF1	ENSG00000110777	4275.72705	0.421	0.1253	3.374515193	0.000739458	0.033362988
RPL28	ENSG00000108107	1847.727348	0.422	0.1299	3.249821866	0.001154773	0.044739093
RPL39	ENSG00000198918	3167.413123	0.422	0.1025	4.115467134	3.86E-05	0.004303889
RPL8	ENSG00000161016	10817.72516	0.423	0.0865	4.882109756	1.05E-06	0.000374101
RPL17	ENSG00000265681	7168.955502	0.423	0.1469	2.887867982	0.003878626	0.096676342
FCRL2	ENSG00000132704	2273.77164	0.428	0.1465	2.906810218	0.003651347	0.093085423
CDC42	ENSG00000070831	1163.537241	0.428	0.1266	3.386296667	0.000708428	0.032511655
PLD4	ENSG00000166428	92.29918946	0.428	0.2114	3.040077058	0.002365176	0.071443022
RPL12	ENSG00000197958	5929.01205	0.429	0.1108	3.872782577	0.0001076	0.009354185
BAMBI	ENSG00000095739	176.119426	0.429	0.2512	3.018498464	0.002540307	0.073020166
SUMF2	ENSG00000129103	1366.073314	0.433	0.1279	3.377153765	0.000732401	0.03318459
TNFRSF10A	ENSG00000104689	120.110254	0.435	0.2387	3.08905254	0.002007959	0.063902108
EIF5A	ENSG00000132507	2584.147089	0.436	0.1055	4.148281336	3.35E-05	0.003979942
ANKRD37	ENSG00000186352	4380.420714	0.437	0.1324	3.291111568	0.000997923	0.040394202
SMPDL3B	ENSG00000130768	869.0671626	0.438	0.1462	2.999604764	0.002703301	0.075976419
RPL6	ENSG00000089009	3441.514929	0.439	0.1377	3.184749499	0.001448794	0.052097909
MAN2A1	ENSG00000112893	1163.161501	0.442	0.1545	2.902873776	0.003697556	0.093470378
RPS27A	ENSG00000143947	7187.231868	0.443	0.1211	3.656328869	0.000255853	0.01623885
CD48	ENSG00000117091	1107.977177	0.445	0.1269	3.523725958	0.000425524	0.022750646

RPS3A	ENSG00000145425	12583.62863	0.445	0.12	3.71247047	0.000205246	0.014239355
MRPS24	ENSG00000062582	1658.075546	0.445	0.1364	3.274758829	0.001057522	0.041573839
CD59	ENSG00000085063	2783.01143	0.446	0.1192	3.759494336	0.000170257	0.012730905
KRTCAP2	ENSG00000163463	4576.447461	0.446	0.0933	4.790094824	1.67E-06	0.000511711
KDELR1	ENSG00000105438	2789.04841	0.45	0.1174	3.835548817	0.000125284	0.010548537
ARID5B	ENSG00000150347	3438.413128	0.455	0.104	4.394307434	1.11E-05	0.001712349
CYBA	ENSG00000051523	19659.05253	0.457	0.0744	6.142168684	8.14E-10	7.91E-07
BTG2	ENSG00000159388	26721.67956	0.458	0.1113	4.118116017	3.82E-05	0.004299637
RPS17	ENSG00000182774	2574.07613	0.462	0.1407	3.293022047	0.000991167	0.040298665
EIF3L	ENSG00000100129	3087.556533	0.464	0.1104	4.203188915	2.63E-05	0.003272316
MKX	ENSG00000150051	34.37225943	0.465	0.2178	3.156201603	0.001598383	0.055491928
TCN2	ENSG00000185339	1060.951301	0.466	0.1373	3.406876656	0.000657108	0.030817796
GSTP1	ENSG00000084207	8656.762214	0.466	0.1081	4.329166812	1.50E-05	0.002162797
TIFA	ENSG00000145365	2058.567868	0.467	0.1472	3.206657987	0.001342865	0.049344537
LIMD2	ENSG00000136490	450.6244718	0.467	0.1419	3.279412204	0.001040236	0.041045168
RPL23	ENSG00000125691	4892.036594	0.471	0.1246	3.780845262	0.000156297	0.012023609
RPS28	ENSG00000233927	4797.27637	0.473	0.1185	3.996108094	6.44E-05	0.006495729
CECR1	ENSG00000093072	5391.232138	0.476	0.1419	3.350137847	0.000807714	0.034547523
BRMS1	ENSG00000174744	712.0043749	0.48	0.154	3.097691044	0.001950346	0.063197134
EEF1B2	ENSG00000114942	6931.024841	0.481	0.1072	4.480402649	7.45E-06	0.001313778
RPL7A	ENSG00000148303	6623.843313	0.481	0.1376	3.493176895	0.00047731	0.024895659
RPLP1	ENSG00000137818	23935.99294	0.481	0.1172	4.106788631	4.01E-05	0.004377562
AP3S1	ENSG00000177879	1535.452028	0.483	0.1237	3.906160632	9.38E-05	0.008532341
SLAMF1	ENSG00000117090	2638.145914	0.483	0.1372	3.554721822	0.000378379	0.020689312
RPL31	ENSG00000071082	2964.912448	0.485	0.1398	3.46809386	0.000524164	0.026707793
NCL	ENSG00000115053	4358.167424	0.487	0.1055	4.634195779	3.58E-06	0.00079825
TNFRSF17	ENSG00000048462	6285.624728	0.49	0.1029	4.783490359	1.72E-06	0.000511711
RACK1	ENSG00000204628	12259.55466	0.492	0.0949	5.178794096	2.23E-07	0.000103827
ERP29	ENSG00000089248	3712.374848	0.492	0.1055	4.664580055	3.09E-06	0.00071903
FOSB	ENSG00000125740	23012.89625	0.494	0.1147	4.319396599	1.56E-05	0.002230651
IDH2	ENSG00000182054	2366.685863	0.494	0.0982	5.030549955	4.89E-07	0.000195785
RPS16	ENSG00000105193	4205.596776	0.494	0.1168	4.224429666	2.40E-05	0.003123747

RPS27	ENSG00000177954	11025.71661	0.494	0.102	4.841304538	1.29E-06	0.000431027
HMOX1	ENSG00000100292	51.59881136	0.495	0.2393	3.101083893	0.001928137	0.062667368
CKAP4	ENSG00000136026	3768.565448	0.496	0.1168	4.24390229	2.20E-05	0.002936111
RPS23	ENSG00000186468	5493.808899	0.496	0.119	4.165112567	3.11E-05	0.003781421
PLP2	ENSG00000102007	2473.16475	0.496	0.1138	4.35683787	1.32E-05	0.001986737
RARRES3	ENSG00000133321	1402.481974	0.497	0.1424	3.488964596	0.000484895	0.025048242
NPTX2	ENSG00000106236	145.1802138	0.497	0.2215	3.014687855	0.002572439	0.073352227
ZNF418	ENSG00000196724	56.01690676	0.5	0.2045	3.559020209	0.000372241	0.020689312
ATF3	ENSG00000162772	5559.525245	0.501	0.1355	3.683814518	0.000229769	0.015074959
ATP6VOE1	ENSG00000113732	1964.937302	0.502	0.1066	4.72057013	2.35E-06	0.000613373
RPL30	ENSG00000156482	4720.24147	0.504	0.1239	4.068397842	4.73E-05	0.005112929
NUP62	ENSG00000213024	548.4977013	0.505	0.1721	2.959460896	0.003081778	0.08300618
GHDC	ENSG00000167925	403.8990276	0.505	0.1765	2.906393595	0.003656212	0.093085423
CD180	ENSG00000134061	835.0858527	0.506	0.1614	3.137004064	0.001706838	0.056857366
LTBP3	ENSG00000168056	802.1669463	0.506	0.1619	3.180264251	0.001471408	0.052621293
NLRP7	ENSG00000167634	808.2730925	0.509	0.1702	2.998870122	0.002709828	0.075976419
TPM4	ENSG00000167460	6670.473914	0.512	0.0731	6.996534895	2.62E-12	5.61E-09
TUBA1B	ENSG00000123416	2066.822457	0.513	0.1287	3.993589777	6.51E-05	0.006503784
ERGIC3	ENSG00000125991	5773.128787	0.513	0.1015	5.059732306	4.20E-07	0.000179576
RPL5	ENSG00000122406	10697.67521	0.513	0.1416	3.629957938	0.000283467	0.017520908
RPL37A	ENSG00000197756	5265.424318	0.519	0.1397	3.709416187	0.000207738	0.014239355
CTHRC1	ENSG00000164932	680.6411394	0.525	0.1737	3.079796095	0.002071424	0.06530345
SLC30A6	ENSG00000152683	498.8079518	0.528	0.1587	3.325570561	0.000882378	0.036838248
METTL7A	ENSG00000185432	2001.808505	0.529	0.1511	3.505792687	0.00045525	0.024098934
RPL11	ENSG00000142676	3728.237465	0.531	0.1255	4.229662852	2.34E-05	0.003089641
RPL37	ENSG00000145592	3041.865324	0.532	0.1179	4.507826349	6.55E-06	0.001192157
RHOB	ENSG00000143878	912.0002742	0.534	0.1788	3.036615512	0.002392504	0.071661197
RPLP2	ENSG00000177600	3700.900197	0.534	0.1157	4.614236957	3.95E-06	0.000827223
BMP6	ENSG00000153162	2107.632105	0.535	0.1298	4.11810939	3.82E-05	0.004299637
TNFAIP3	ENSG00000118503	24795.79255	0.538	0.1435	3.784615532	0.000153946	0.012015684
TMED9	ENSG00000184840	5267.757862	0.543	0.1403	3.859676313	0.000113537	0.009712436
AC233755.1	ENSG00000275063	27482.57037	0.543	0.2491	3.136077443	0.00171224	0.056860188

GMPR	ENSG00000137198	69.93359457	0.543	0.239	3.019472883	0.00253215	0.073020166
TMEM19	ENSG00000139291	1168.982891	0.546	0.1532	3.584736841	0.000337418	0.019424851
AC136616.3	ENSG00000278782	106.7290395	0.548	0.2061	3.372404718	0.000745149	0.033387295
CD9	ENSG00000010278	1223.432403	0.549	0.1753	3.238447117	0.001201823	0.045746324
LEPROT	ENSG00000213625	724.866925	0.554	0.1783	3.147081	0.001649093	0.056256243
DARS	ENSG00000115866	1036.889718	0.554	0.1969	2.870345484	0.004100235	0.099645038
AIG1	ENSG00000146416	973.8589934	0.556	0.1426	3.90517667	9.42E-05	0.008532341
RPS10	ENSG00000124614	3427.676438	0.558	0.1324	4.217137834	2.47E-05	0.00318758
SLC47A1	ENSG00000142494	795.4200866	0.558	0.1634	3.44694133	0.000566972	0.027683234
TRABD2A	ENSG00000186854	195.6635683	0.558	0.2497	3.157258977	0.001592598	0.055471186
UBE2E1	ENSG00000170142	419.7501056	0.558	0.1884	3.0083727	0.002626508	0.074103566
TSSC1	ENSG00000032389	300.5124154	0.558	0.1931	2.909650191	0.003618335	0.092561854
AQP3	ENSG00000165272	2819.10013	0.558	0.1426	3.928721585	8.54E-05	0.007872211
ZMYND11	ENSG00000015171	468.5936082	0.559	0.1924	2.923395885	0.00346236	0.089659477
CCR2	ENSG00000121807	1367.423633	0.562	0.1422	3.934847293	8.32E-05	0.007808667
VIM	ENSG00000026025	19402.78907	0.563	0.1362	4.156900395	3.23E-05	0.003875847
RPL18	ENSG00000063177	5394.529613	0.569	0.1308	4.353838155	1.34E-05	0.001986737
TFE3	ENSG00000068323	240.2563794	0.571	0.2007	2.883486273	0.003932998	0.097125973
FBL	ENSG00000105202	433.6747243	0.572	0.1884	3.031119867	0.002436485	0.072027691
FRZB	ENSG00000162998	166.7591527	0.572	0.2511	3.042823227	0.0023437	0.070994846
TMEM52	ENSG00000178821	226.1009759	0.573	0.1993	2.90438489	0.003679755	0.093462278
FBXW7	ENSG00000109670	3660.441229	0.579	0.1447	4.056658267	4.98E-05	0.005322958
RPS12	ENSG00000112306	3707.375542	0.584	0.1464	3.997102823	6.41E-05	0.006495729
JSRP1	ENSG00000167476	767.2701685	0.587	0.1677	3.578254016	0.000345897	0.019779031
WHRN	ENSG00000095397	688.2598745	0.589	0.157	3.74260006	0.000182126	0.013248116
SLC39A7	ENSG00000112473	2460.274046	0.59	0.1577	3.746567425	0.000179271	0.013147739
ST6GAL1	ENSG00000073849	3902.786345	0.591	0.1576	3.828031734	0.000129172	0.010717806
ERO1B	ENSG00000086619	1212.022066	0.594	0.169	3.539464611	0.00040094	0.021543951
LRRN1	ENSG00000175928	118.4590702	0.594	0.2394	3.625912119	0.000287943	0.017570594
CFL2	ENSG00000165410	1651.926551	0.595	0.1888	3.184529215	0.001449897	0.052097909
RPSA	ENSG00000168028	3119.160524	0.596	0.1537	3.874497734	0.000106845	0.009354185
GADD45B	ENSG00000099860	4089.648939	0.599	0.0995	6.023013588	1.71E-09	1.41E-06

BCL2	ENSG00000171791	1132.775501	0.599	0.1868	3.272111918	0.001067473	0.041811318
LCMT2	ENSG00000168806	118.6726998	0.603	0.2494	3.151989899	0.001621619	0.055755531
FAM50B	ENSG00000145945	63.53488628	0.604	0.2469	3.364185947	0.000767698	0.033781872
RNASEH2C	ENSG00000172922	539.3595737	0.606	0.1749	3.467914179	0.000524515	0.026707793
TMEM156	ENSG00000121895	575.5906441	0.609	0.1721	3.491891308	0.000479613	0.024895659
AC141272.1	ENSG00000277836	3112.837065	0.613	0.2474	3.038562152	0.002377101	0.07160095
ANKRD53	ENSG00000144031	65.71528919	0.613	0.2483	2.97485208	0.002931299	0.079756681
TMEM64	ENSG00000180694	328.2502602	0.615	0.2175	2.943506333	0.003245172	0.086382656
LRRRC24	ENSG00000254402	219.125056	0.616	0.2233	2.880311135	0.003972829	0.097523581
ESAM	ENSG00000149564	94.84906203	0.619	0.2511	3.440931663	0.000579715	0.027922936
RPS3	ENSG00000149273	10690.73948	0.622	0.1066	5.831113827	5.51E-09	3.92E-06
APH1A	ENSG00000117362	309.5935177	0.624	0.2076	2.986321123	0.00282356	0.078218456
MGMT	ENSG00000170430	341.3451814	0.625	0.2242	3.035144638	0.002404204	0.071810472
UEVLD	ENSG00000151116	104.0792535	0.625	0.2543	2.888387234	0.003872228	0.096676342
ALOX5	ENSG00000012779	1582.37721	0.626	0.1709	3.712239433	0.000205434	0.014239355
CYB5R2	ENSG00000166394	107.9490197	0.626	0.2407	3.499404493	0.000466299	0.024562222
TNFRSF4	ENSG00000186827	766.0409006	0.629	0.177	3.619388978	0.000295299	0.017839758
SCYL3	ENSG00000000457	471.8777956	0.631	0.2323	3.015910493	0.002562089	0.073252448
HSBP1L1	ENSG00000226742	131.9287667	0.633	0.2541	3.018508616	0.002540222	0.073020166
CLDN3	ENSG00000165215	408.2610464	0.637	0.2545	3.738067902	0.00018544	0.013308111
ZDHHC18	ENSG00000204160	868.1311175	0.642	0.1694	3.797797442	0.000145988	0.011529843
PPP1R2P9	ENSG00000102055	114.9385349	0.642	0.2275	4.672465183	2.98E-06	0.00071903
HIST1H4C	ENSG00000197061	1151.474777	0.643	0.1941	3.358613621	0.000783345	0.034050037
RAB5C	ENSG00000108774	321.6707111	0.644	0.2191	2.932250958	0.003365147	0.088411589
B3GNT9	ENSG00000237172	290.6367976	0.649	0.2165	3.030047121	0.002445156	0.072027691
FANCE	ENSG00000112039	99.92641996	0.65	0.2455	3.654016843	0.000258169	0.01623885
COCH	ENSG00000100473	76.43427564	0.652	0.2382	3.289454994	0.001003816	0.040394202
AMMECR1L	ENSG00000144233	202.1680428	0.663	0.2431	2.935626553	0.003328748	0.088104709
GRINA	ENSG00000178719	142.4813161	0.663	0.2167	3.089363775	0.002005857	0.063902108
CLN6	ENSG00000128973	298.4386899	0.665	0.2003	3.351618699	0.000803406	0.034501282
PAX5	ENSG00000196092	59.95734327	0.669	0.2457	3.353642602	0.000797553	0.03449156
GADD45G	ENSG00000130222	233.3907522	0.672	0.2077	3.323538725	0.000888831	0.036838248

LCP1	ENSG00000136167	390.1971427	0.678	0.2258	3.314985224	0.00091648	0.037837519
HIPK2	ENSG00000064393	1236.958439	0.68	0.1473	4.66010875	3.16E-06	0.00071903
MYL2	ENSG00000111245	196.144926	0.68	0.2076	3.364954432	0.000765563	0.033781872
WDR81	ENSG00000167716	216.5163915	0.681	0.2273	3.092190223	0.001986855	0.063800117
YY1	ENSG00000100811	727.2375917	0.682	0.1733	3.96417202	7.37E-05	0.007159559
PERP	ENSG00000112378	676.8230265	0.686	0.1542	4.511000631	6.45E-06	0.001192157
CTSW	ENSG00000172543	657.8971534	0.686	0.1986	3.584374737	0.000337887	0.019424851
TNFAIP2	ENSG00000185215	1299.375643	0.691	0.2132	3.226022539	0.001255235	0.047428356
MIXL1	ENSG00000185155	314.6672649	0.698	0.2176	3.323835456	0.000887886	0.036838248
JUN	ENSG00000177606	53443.31187	0.702	0.1019	6.900944065	5.17E-12	8.17E-09
CAPG	ENSG00000042493	477.1969868	0.706	0.1976	3.643244557	0.000269223	0.016835086
ERLIN2	ENSG00000147475	294.0457862	0.709	0.2387	3.141577886	0.001680401	0.05652234
IGLL1	ENSG00000128322	171.8433067	0.711	0.2387	2.897647569	0.003759728	0.094594761
ANKIB1	ENSG00000001629	352.7718595	0.718	0.2085	3.542362654	0.00039656	0.021416236
TLR6	ENSG00000174130	57.24213475	0.719	0.2545	3.175177622	0.001497448	0.053374041
FAM208B	ENSG00000108021	446.5184069	0.723	0.2486	3.288109133	0.001008627	0.040394202
DUSP26	ENSG00000133878	504.9808664	0.728	0.1865	3.935162537	8.31E-05	0.007808667
CD99	ENSG00000002586	413.2235501	0.732	0.2015	3.684402191	0.00022924	0.015074959
ZNF530	ENSG00000183647	97.70670392	0.737	0.2403	3.061534842	0.002202054	0.06785752
DDI2	ENSG00000197312	237.6707551	0.74	0.2536	3.57511537	0.000350073	0.019911361
PAWR	ENSG00000177425	262.925816	0.742	0.2375	3.114539991	0.00184232	0.06042922
KLHL5	ENSG00000109790	804.5719516	0.759	0.2125	3.607194945	0.000309525	0.018185451
MAN1A2	ENSG00000198162	3107.092458	0.762	0.1726	4.472241601	7.74E-06	0.001313778
KIAA2022	ENSG00000050030	62.97769721	0.767	0.254	3.440962048	0.00057965	0.027922936
TBXAS1	ENSG00000059377	316.560988	0.768	0.2545	3.127868321	0.00176079	0.05811152
TMEM110	ENSG00000213533	249.8408135	0.771	0.2477	3.208870958	0.001332573	0.049135177
OGFOD3	ENSG00000181396	682.5407463	0.773	0.1766	4.312488363	1.61E-05	0.002271241
MRPS23	ENSG00000181610	316.231624	0.784	0.2391	3.33498872	0.000853029	0.036053102
ZNF83	ENSG00000167766	141.9921644	0.794	0.2337	3.401181021	0.000670954	0.031329734
MLLT1	ENSG00000130382	77.83135455	0.804	0.2525	3.396826328	0.000681722	0.031468541
ANKH	ENSG00000154122	260.0923657	0.815	0.2539	3.859979741	0.000113396	0.009712436
IQCG	ENSG00000114473	326.6318532	0.824	0.2538	3.782383264	0.000155334	0.012023609

PGPEP1	ENSG00000130517	403.3638192	0.828	0.2176	3.801911201	0.000143584	0.011529843
TMEM154	ENSG00000170006	626.1924143	0.828	0.2149	4.212430494	2.53E-05	0.003216015
KLF2	ENSG00000127528	3143.472268	0.829	0.1366	6.057608923	1.38E-09	1.23E-06
TSPAN7	ENSG00000156298	706.176446	0.829	0.1749	4.858611906	1.18E-06	0.000407754
RCN3	ENSG00000142552	460.1333282	0.829	0.1819	4.59132428	4.40E-06	0.000905702
PLTP	ENSG00000100979	322.3857278	0.835	0.2471	3.666360152	0.000246027	0.015944064
EAF1	ENSG00000144597	169.2882995	0.836	0.2545	3.733292861	0.000188993	0.013383432
PALD1	ENSG00000107719	159.0051423	0.851	0.2515	3.142823445	0.001673267	0.05652234
TREML2	ENSG00000112195	64.9605664	0.859	0.2385	3.730247519	0.000191292	0.013457123
DEPTOR	ENSG00000155792	331.238325	0.882	0.2242	3.979340264	6.91E-05	0.00684221
SPN	ENSG00000197471	273.2460463	0.887	0.2352	3.796685783	0.000146643	0.011529843
VPREB3	ENSG00000128218	59.78096489	0.915	0.2501	4.111935301	3.92E-05	0.004325222
C10orf10	ENSG00000165507	333.5677162	0.925	0.2541	4.660808215	3.15E-06	0.00071903
ATF5	ENSG00000169136	179.6951135	0.926	0.2359	4.037864888	5.39E-05	0.0055998
PLAC8	ENSG00000145287	132.9697508	0.933	0.2545	4.204438862	2.62E-05	0.003272316
PHACTR1	ENSG00000112137	932.5290877	0.936	0.2395	4.392419499	1.12E-05	0.001712349
IL5RA	ENSG00000091181	139.3080185	0.948	0.2487	4.444890455	8.79E-06	0.001424707
KPNA5	ENSG00000196911	332.256605	0.984	0.2135	4.774646439	1.80E-06	0.000520267
CTGF	ENSG00000118523	538.806505	0.989	0.1791	5.560257384	2.69E-08	1.60E-05
SULF2	ENSG00000196562	373.5884848	1.008	0.2531	4.530492312	5.88E-06	0.001144081
PLA2G2D	ENSG00000117215	314.6679145	1.052	0.2544	4.46192356	8.12E-06	0.00133625
ITPRIP	ENSG00000148841	704.2620191	1.068	0.2082	5.272780259	1.34E-07	6.53E-05
RASD1	ENSG00000108551	629.2042791	1.106	0.1907	5.883535416	4.02E-09	3.07E-06
QPCT	ENSG00000115828	3017.231262	1.193	0.1705	7.075417178	1.49E-12	3.98E-09
CD27	ENSG00000139193	7087.935456	1.21	0.1018	11.90123254	1.17E-32	1.25E-28
S100A4	ENSG00000196154	148.7969975	1.314	0.2537	5.5029795	3.73E-08	2.05E-05

pression in TG2 PCs.