

Data Supplement

GPR19 coordinates multiple molecular aspects of stress responses associated with the aging process

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Table S1. GPR19 induced protein expression alterations in the cytoplasmic (CE1) compartment. Significantly-regulated proteins (identified by official Gene Symbols) found in cells, differential between mock-transfection and the specific GPR19 expression level (0.5, 1, 2, 5, 10µg), are represented as a log2-transformed and normalized expression ratio between the specific GPR19 expression level and the expression level found in cells receiving empty vector transfection.

Gene Symbol	CE1 0.5	CE1 1	CE1 2	CE1 5	CE1 10
FBXO41	10.69676	9.083785	10.7104	9.093955	9.55885
PABPC4	7.79277	7.089818	7.918565	6.834981	7.504267
TUBB4A	8.61452	3.305781	7.270007	3.921923	9.986918
DBNL	7.112253	5.421084	7.087368	5.404547	5.731172
PDHA1	6.800228	6.745516	7.592351		7.789457
HDAC2	6.980002	4.572511	7.062519	4.546455	5.417666
GNL3	6.41779	6.547671	5.554245	7.044593	2.428604
HMGA2	6.025469	6.291443	3.564368	4.1637	6.806156
G3BP2	6.444117	2.507962	6.417986	5.351643	5.620753
CKS1B	5.350146	4.71393	5.694834	4.757231	5.632189
HIST1H3A	6.705344	5.554681	5.815956	2.535865	5.469338
PCK2	6.563432	4.35029	4.916279	3.959524	5.521555
PRKACA	6.351085	2.344109	5.787345	5.140983	5.545881
ALDH7A1	5.939367	4.592883	5.574678	3.816389	5.122418
MDC1	5.577719	5.234245	4.315547	4.739501	4.836119
MAT2B	4.3955	5.011012	5.450945	4.575029	5.189891
ATP2A3		6.154594	6.655536	5.347379	6.317634
TRAP1	9.638381		9.579779	3.96138	
PLS1	5.729315	3.552736	5.694644	3.81653	4.259494
DNAJB1	4.243082	4.455654	4.976607	5.043156	4.251115
CHCHD2	6.249968	3.22541	5.912626	2.499023	4.102614
CHCHD2P9	6.249968	3.22541	5.912626	2.499023	4.102614
NUP210	5.34126	4.045645	5.126187	2.866908	4.500165
ETFA	4.40973	5.670759	3.73405	4.027265	4.028338
ABCF2	5.517496		5.691547	5.027874	5.562682
TUBA1A	4.663854	5.565738	4.189228	3.59049	3.775831
FH	5.41596	3.047286	5.364222	3.710613	4.096651
M6PR	4.640428	3.09044	4.399486	4.200679	4.571461
CLPB	4.117615	4.983297	3.966944	3.667042	4.131427
THOC3	4.848999	3.51066	4.882007	3.359276	4.258321
PPAN	4.893352	3.032209	5.148684	4.845688	2.406189
MTHFD1L	4.3336	4.314832	3.52759	4.027336	3.873402
MT-CO2	5.108253		5.634829	3.571318	5.229374
TALDO1	3.693871	3.549166	4.304534	2.850333	4.534236
DTYMK		4.721363	4.302695	4.702006	4.868732
RPN2	3.522472		4.303988	6.208293	3.972253
GRWD1	3.411892	3.875944	3.603543	3.388359	3.596786

DNMT1	1.964771	5.353118		5.631031	4.80777
SSBP1	4.081832	4.549111	4.397995	4.679666	
CDKN2B	2.039445	3.393592	5.046009	3.520885	3.688438
RPLP2	4.250819	3.084179	3.485987	3.446997	3.241341
HADHB	4.171443	2.590638	4.564615	6.058642	
NVL	4.385069	4.05471		4.065401	4.613088
CHORDC1	4.500437	5.945401	4.027775	2.594438	
COX7C	4.305266	3.275132	3.706722	2.56665	3.152461
CHD5	3.454825		3.845628	4.005116	5.226618
EPB41L2	1.943074	3.25986	4.665453	3.22015	3.361896
ILKAP	4.13834	2.557866	4.19354	2.454376	3.08642
CDKN2A	2.039445	3.172306	4.669283	3.131024	3.415068
RBBP7	2.597623	4.844398	2.437794	3.513227	2.590523
POLR2L	4.858581	2.500192	3.128831	2.422085	2.892313
CDV3	4.673244	3.639074	4.588095		2.297464
ACAA2		2.724134	4.166083	3.749408	4.55429
PLD3	3.286029	5.564812	3.587991	2.708124	
CIAPIN1	4.272707	3.534425		3.02188	4.186033
STRBP	3.411098	3.678277	3.605837	4.243541	
U2AF1L4	2.651158	3.085298	3.128173	2.599909	3.442912
DKFZp313C1541	3.159809	3.905038	3.35076	3.962476	
RAB2B	3.159809	3.905038	3.35076	3.962476	
TJP1	3.566159	6.188	4.573483		
TMEM43	6.004525		3.506795	4.790811	
TMX1	2.451503	2.554154	2.822177	2.948004	3.108268
THOC2	3.489708	3.496777	3.505909	3.342624	
RPL9	2.252475	4.258341	2.80875		4.503358
PABPN1	3.075848		3.005544	3.910261	3.798488
C1D		3.28747	3.038958	3.840286	3.575711
HSDL1	3.56927	4.081143	3.603531	2.397403	
H3F3C		3.990903		5.689182	3.734658
ZC3H14		3.79447	2.767172	3.39016	3.338645
BRD3		2.670045	4.038248	3.37489	3.008545
BRD4		2.670045	4.038248	3.37489	3.008545
ATP2A2	5.130864	3.4916			4.231958
DIABLO	3.001858	3.100342		4.095286	2.576088
HIST2H3PS2		3.990903		4.752464	3.734658
SRSF9	2.361875		2.755881	3.080814	4.263432
UBE2A	2.149374	3.820374	3.532983		2.745289
TRIP13		2.699176	4.053877	2.308015	3.098892
H2AFY2			4.399874	4.845201	2.71921
UBL4A	2.872313		2.711075	2.902186	3.283377
PRDX4	2.627755	2.508921		2.669105	3.692437
ZC3HC1		3.914305		3.584355	3.730338
EIF4B		3.607411		4.166563	3.212064

PITRM1		4.302467		3.160042	3.518041
LIMD1		3.663601		3.801876	3.513859
SNRPD1	3.22892	2.734593		2.421673	2.548734
CANX	3.60814		3.494015	3.812525	
POLR1C	3.126978		2.681277	2.644198	2.331464
TPX2	2.934783	2.561411		2.611755	2.665921
ARFIP2		3.56292		3.678461	3.49587
RPS15A	2.232466	2.609811	2.594986		3.014615
LMNA	2.9199	3.662488		3.782661	
MAGOHB	1.987006	2.927922	3.102642		2.323051
BCAS2	2.825456		3.756229	3.634624	
HACD3			2.746909	4.128474	3.335625
EIF1	2.369642	2.636721	2.48903		2.201114
GBAS	2.041613		2.237197	2.837679	2.401106
RPL38	2.328322	2.800782	1.950077		2.415705
ABHD10	4.413496			4.955009	
PPP4R2			2.905439	2.930947	3.485517
H2AFV		2.451433		4.183837	2.678711
PPIF		2.83708	2.381816	4.037908	
PTBP3	2.255026		2.193605	2.727708	2.072868
DPY30		2.9679		3.061497	3.137028
MAP1S	2.48879	2.618711	1.972609		2.046283
H2AFZ		2.451433		3.994732	2.678711
FMR1	2.987731	3.420831	2.589099		
KDM1A	4.40447		4.438439		
HIST2H2AA3		2.733706		6.078214	
HIST2H2AC		2.733706		6.078214	
RPL22	2.860579		2.581148		3.348452
NRAS	2.910918			2.962181	2.870967
EIF3K			2.962331	2.875938	2.900608
HYOU1			2.750564	2.841358	3.115781
CSDE1	2.497636	3.442677			2.688017
CTNNB1		5.219114	3.403984		
RAB5B	2.637897		3.020582	2.773151	
PDE12			4.53943	3.85359	
HRAS	2.554413			2.962181	2.870967
MAEA		2.635836		2.503828	3.234395
SIN3A	3.961659	4.372344			
CNOT1		2.811339		2.725698	2.745248
GNB2L1	2.677835			2.824897	2.773884
LYZ				8.270085	
UBTF		2.775355		2.623433	2.803179
NOLC1		3.74708		4.429179	
TOP2B		3.113541	2.647692		2.406301
POLR2B	2.680934		2.764865		2.64382

PSPC1	2.744088		2.898658	2.429015	
ACTA1		2.833885	2.58068		2.646226
ACTA2		2.833885	2.58068		2.646226
ACTC1		2.833885	2.58068		2.646226
SDHA		3.395392		4.663784	
NOP58			2.190343	3.757845	2.102168
RAB35		2.993561		2.345817	2.698869
PPP2R1B		2.709558		2.719097	2.602009
GNPNAT1		2.907586		2.61611	2.504529
PPP1R8			2.613168	2.660304	2.708897
RBM4		2.93607	2.146206		2.880698
STOML2		5.223988		2.711873	
NUMA1	2.356666	3.318138		2.259956	
H3F3B			2.158461	5.689182	
SART1		2.596741		2.52564	2.645641
H3F3A			2.158461	5.571896	
DHCR7	2.814599		2.4997	2.402	
WBP11			2.564058	2.540589	2.535269
ZNF740	3.652506	3.932609			
CISD2	2.705118	2.869896	2.009394		
SLC3A2			2.14787	3.280224	2.145836
MRPL15				3.587739	3.977276
PCMT1	2.316211			3.081548	2.10608
EPPK1		2.403912		2.433452	2.641812
PDHX				3.640508	3.82751
STAG2	2.321941		2.577996	2.551638	
UQCRC2	2.26353		2.066224	3.029847	
COPS4	2.250396	2.704454	2.396573		
STX12			1.953191	2.78968	2.590861
RRP8		4.402776			2.926458
RAB2A			3.35076	3.962476	
IGF2R		5.019741	2.288653		
HSPA8	2.535244	2.767095	1.982832		
CYC1	4.491854	2.748702			
ATP5A1		4.529002		2.626821	
TP53BP1			4.113898		3.021948
RBBP4		2.951659	2.043936		2.121506
NDUFS2		3.608532	3.418382		
COX6B1			2.80584	4.143793	
RPS27L		3.586871			3.352327
MYL6	2.523746			2.022944	2.364625
EEF1B2			6.901283		
SLC25A13			3.026896	3.852205	
DDX27		4.658491		2.207918	
TUBA4B	1.969895		2.757484	2.125315	

COX5A	2.419497			4.391836	
TECR		3.335086		3.398467	
CALM1		4.14236	2.515178		
CALM2		4.14236	2.515178		
CALM3		4.14236	2.515178		
RCC1	1.954594		1.902196	2.737198	
DDX42	1.920469			2.512498	2.09943
CERS2		2.302802		4.221438	
SEH1L			3.148777		3.291323
AIMP1		3.074346		3.356424	
RBM39		4.387852		2.034332	
IGHA1				6.412257	
IGHA2				6.412257	
ALG10		3.660608			2.749062
MRPL4				6.368657	
USP11			4.007856		2.338879
USP4			4.007856		2.338879
GRPEL1		3.194287		3.074856	
MRPS22		3.915969		2.155555	
NOL6		3.279881		2.781378	
SLC25A24		3.396612		2.659097	
NPM1		2.875992		3.083411	
SPTLC1		3.604172		2.324751	
HIST1H2BB				3.775531	2.131237
HIST1H2BJ				3.775531	2.131237
HIST1H2BO				3.775531	2.131237
HIST2H2BC				3.775531	2.131237
HIST2H2BD				3.775531	2.131237
HIST2H2BE				3.775531	2.131237
HIST3H2BB				3.775531	2.131237
PSMA8	2.828061		3.052534		
SUPT6H				2.52148	3.310968
CKAP5	2.486409	3.313976			
UBBP4	2.932834		2.78376		
MRPL48		3.124901		2.550286	
TMEM11		3.429974		2.215355	
CSTF1				2.978231	2.65747
PDCD6IP	2.736209	2.827672			
CPSF4				2.126074	3.356246
BID				3.21055	2.225922
ACTG2		2.833885	2.58068		
SRP72		2.419086			2.911212
NAP1L1		3.101041			2.195262
RAVER1	5.249719				
TFAM	2.850899			2.391975	

TFG	2.565857	2.675364			
ATP5J		2.302903			2.894686
PTBP1				2.716732	2.451078
HNRNPUL2	2.337714			2.810361	
HNRNPUL2- BSCL2	2.337714			2.810361	
UBE2D3				2.567621	2.527655
PYCR1	2.341481				2.662687
EIF4EBP1	2.012551	2.974014			
ME1		2.477381		2.508415	
PNPO				2.367809	2.570797
ABCE1				2.435538	2.501304
EIF3D				2.323016	2.529778
FAU	2.041721	2.805489			
RPS10				2.173257	2.634424
STIM2		2.608553		2.187502	
TPM4				2.231268	2.526874
USP34		2.610584			2.142424
DDX56			4.744726		
RBM4B			2.012748		2.704939
RPS2				2.464011	2.251645
SEC23IP				2.242155	2.451845
ENO2	1.988551	2.703322			
IARS	2.031098	2.638719			
TUBB	4.624252				
LIN7A			2.458262	2.149582	
VCP			2.272231		2.321088
GLYR1	4.547577				
S100A8				4.487279	
PRPF4B				2.298579	2.169365
HBS1L		2.322189		2.116446	
NUP205	2.062667		2.373351		
DYNLRB1	2.232533			2.199424	
PPP2R2A	2.009355				2.386878
LLGL1				4.358447	
PRPF8			4.342136		
SMARCA5	1.906775			2.434429	
GAPVD1	4.297182				
RBM34			1.921916		2.356023
RBM12B	4.264436				
TTC4				2.046218	2.192495
ILK	4.231647				
MRI1	4.136177				
HIST1H2AB				4.125427	
HIST3H2A				4.125427	

PPP5D1		4.017922			
HPS4	4.002302				
SPCS2				3.876953	
COX5B	3.780925				
MTCH2				3.762678	
NOP56				3.753756	
ALG10B		3.660608			
CHAMP1			3.628948		
ALDOC		3.591254			
DLAT				3.583364	
PGAM5				3.532695	
ATP6V0C		3.48836			
EEF1E1		3.488351			
EEF1E1-BLOC1S5		3.488351			
AFG3L2				3.487026	
CBX5				3.463858	
RAP2A				3.458712	
RAP2B				3.458712	
RAP2C				3.458712	
WDR5			3.457275		
PGLS		3.325103			
GATC		3.324477			
ZC3H13				3.297638	
ALDH6A1	3.265312				
TAF15		3.249574			
MAFF				3.248084	
SRPRB		3.228421			
PPP5C		3.218278			
ACOT13				3.184412	
TOP2A				3.179468	
NUP88				3.152366	
TOMM22			3.149883		
EIF4E		3.139668			
HNRNPK				3.125805	
TFCP2		3.1238			
NDUFB10				3.112591	
NDUFA4				3.105566	
ERCC1	3.101348				
RBMXL2				3.086916	
NRD1		3.055555			
EIF2A		3.045419			
NUP214		2.95702			
TXNRD1		2.956062			
TXNRD2		2.956062			
EIF3F				2.955346	

NSFL1C		2.931847			
RAB10		2.904431			
POLR2C					2.871546
HIST1H4A				2.863412	
NIFK				2.860583	
UBXN1				2.838908	
SNRNP200				2.831406	
PHB				2.830857	
AKAP1		2.829234			
DBI		2.829089			
TXN2		2.818951			
TM9SF3			2.810339		
SRM		2.785759			
ITGB1				2.770795	
ARID1A				2.76516	
ATP2A1		2.757501			
ZFR	2.735266				
MORF4L1		2.730774			
LAMTOR5		2.730291			
PNPT1	2.721037				
AURKB			2.717967		
SRSF5	2.704261				
RAB1C				2.662145	
GANAB					2.659805
CDH2		2.631163			
CYB5R3				2.61453	
RALYL				2.587561	
ZNF512					2.586006
DCD					2.580951
USP14			2.570397		
CCAR2		2.569742			
HBA1				2.566099	
IWS1		2.559899			
PPIL4					2.551956
TMED9		2.547931			
TTC19				2.543757	
DDX39B					2.541536
GLUD2				2.535096	
YLPM1				2.529958	
OAT	2.510232				
GOT2				2.484841	
RPS24					2.468061
SLC25A6				2.45634	
CAPN1					2.445969
SEC11A				2.416614	

RPL39					2.406652
RPL39P5					2.406652
PITPNB					2.401744
SYNGR1			2.398224		
ARF3					2.39613
ARF4					2.39613
EXOC3L4		2.386889			
MRPS2				2.359031	
NAPA				2.356112	
ADK					2.347189
RPS20					2.342137
PDCD10					2.333198
ATP5L				2.328549	
RANBP1	2.311193				
HMGB2					2.304626
TUBB6					2.29837
ALDH2					2.295539
RBMXL3					2.285528
NUP54				2.273182	
NDUFS1					2.272472
COG4					2.25602
CD81					2.252493
SNRPA1					2.251942
AP1B1					2.245849
PIN1					2.243164
ATP2B1	2.2214				
ATP2B2	2.2214				
USP7					2.218452
VRK1					2.202423
DYNLRB2				2.199424	
HDLBP	2.182006				
HSD17B4				2.179785	
DAZAP1					2.177688
PLCG1					2.175216
PSMD10					2.170099
LSM14A					2.166069
SRRM2					2.162365
FAR1			2.145449		
YTHDF1				2.142943	
ECH1				2.104344	
SAFB				2.082201	
QARS					2.080461
CPT1A					2.078497
INCENP				2.078357	
CNPY2					2.077709

HIST3H3				2.064585	
EXOSC2			2.015669		
DCTPP1					2.0143
TMEM180				2.013901	
NUP93					2.008665
MIF	1.998038				
RPS11	1.943748				
POLR2A	-1.90671				
RRP9	-1.94133				
PHF3			-1.95916		
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DKFZp434D199	-2.7179		-5.00503		
MDH2		-4.8577			-2.87118
COX4I1	-2.17487	-2.96579	-2.59582		
U2SURP		-2.99074		-2.5265	-2.23401
IMP3		-3.68472			-4.09142
TMEM205		-2.86064		-2.63632	-2.30021
PML		-2.82674		-2.45596	-2.53436
ATAD3A			-3.9017		-3.92545
DCAF16		-2.60806		-3.0766	-2.1851
ARFGAP3		-2.69574		-2.76914	-2.41465
KIAA1429				-3.8027	-4.09367
LAMP1		-3.77343	-4.13091		
FTO		-2.94594		-2.62215	-2.34294
CREBBP			-5.27437		-2.66661
EP300			-5.27437		-2.66661
RAB33B		-2.92535		-2.85588	-2.16395

RAB39A		-2.92535		-2.85588	-2.16395
RAB39B		-2.92535		-2.85588	-2.16395
RAB3A		-2.92535		-2.85588	-2.16395
RAB3C		-2.92535		-2.85588	-2.16395
ME2		-2.61488	-2.01857		-3.32052
TRIP4		-2.74188		-2.72748	-2.49144
OSBP2	-5.40918				-2.57241
PPA2			-3.93064		-4.05423
LIN28B		-2.53448	-2.77278		-2.69888
SNX17		-2.58648		-2.83425	-2.59391
NOP2	-4.02532		-4.00229		
RBM26		-2.75517		-2.6355	-2.65193
SLC25A31	-2.19658		-2.91153		-2.93997
MORF4L2		-2.55699	-2.89121		-2.61222
MCM4			-5.47762		-2.6051
NSUN5P1		-2.62258		-2.66368	-2.81084
NSUN5P2		-2.62258		-2.66368	-2.81084
DKC1	-2.46678	-2.63244	-3.00273		
ATP5H			-4.38387	-3.7431	
EIF4G1			-5.75906		-2.36824
GALNT2		-4.19211			-3.93557
ZNF629		-2.80244		-2.8021	-2.55906
C5orf24		-4.25919			-3.90998
LIG3		-2.98997		-2.61098	-2.57777
RPL28	-4.05301		-4.12877		
MEPCE			-5.49277		-2.70672
ESYT2	-4.70622				-3.49604
ANXA2	-4.0969		-4.11251		
SAMM50				-3.56661	-4.66721
DNAJB12	-3.35783		-4.88741		
TRIP6	-4.20755		-4.03938		
SON		-2.75123		-2.41511	-3.08456
SPTBN1		-4.44553			-3.82598
CDK12			-2.66903	-3.15126	-2.47049
PPIH	-4.31308		-4.02571		
EIF5B	-3.45535			-2.43152	-2.47053
SRPK3	-4.18494		-4.19158		
RPS19BP1		-4.11694		-4.26478	
ALDH1B1				-6.16424	-2.27336
TSC2		-2.69727		-2.51819	-3.2389
ASF1B		-2.69315		-3.01432	-2.7483
ARL2BP	-4.18843		-4.28252		
SBDS	-4.29414		-4.18501		
FTH1	-5.75942			-2.72126	
GSTM2	-4.19059		-4.29938		

GSTM5	-4.19059		-4.29938		
NKAPL	-4.29071		-4.20526		
IQGAP3	-4.29411		-4.20602		
SUMO3	-4.09943		-4.40691		
HMOX2	-3.79263	-2.68123	-2.03253		
BAZ1A		-3.60975		-2.43816	-2.47076
NUP62		-3.2391		-2.36404	-2.92661
PRKAR2A	-4.4237		-4.10646		
ARG1		-3.17529			-5.36024
LUC7L	-2.83503	-3.20381			-2.52624
H2AFX			-5.72369		-2.85438
TARDBP	-4.3339		-4.27821		
GLS	-4.19593				-4.45866
CMAS	-3.20468		-5.51455		
HSPB1	-4.54416		-4.20037		
CCNB1		-8.77883			
MMS19	-4.67933		-4.11		
PDIA4	-4.5461		-4.26975		
38961		-3.35582		-2.91379	-2.56173
THYN1			-2.58107	-3.2886	-2.96259
CBLL1		-2.73404		-3.92555	-2.17972
XPO6		-3.04183		-3.58472	-2.21336
RPL37A	-4.46198		-4.38399		
ARPP19		-3.38029		-3.18593	-2.33923
AFF1		-5.42578			-3.48461
SFXN4	-4.25723		-4.65462		
SEC61A2	-4.78279		-4.13156		
CKMT1B	-3.95736	-2.91044			-2.05393
PABPC1		-2.6125	-3.46029		-2.85646
FLII		-4.33417			-4.6052
RPL8	-4.67955		-4.26895		
PZP		-3.01686		-3.52433	-2.44594
DKFZp434B156	-4.5162		-4.4711		
WDR92	-4.5162		-4.4711		
LRBA	-4.64861		-4.36293		
ATP5D	-4.66927		-4.36929		
SLC25A3	-5.40573	-3.64335			
RPL36A	-5.04617		-4.07364		
TPT1P8	-4.77998		-4.39875		
BCAP31	-4.67268		-4.50613		
BICD2	-4.51779		-4.67633		
TRIAP1		-4.18304		-5.03002	
HARS2	-4.55522		-4.66192		
ATP5B	-2.63928		-4.45187		-2.13315
SEC61A1	-5.1352		-4.13156		

MRPS7		-5.9757			-3.33865
ECHS1		-2.89894		-3.86367	-2.56153
PCBP2	-4.77925		-4.556		
NDUFA9				-5.76442	-3.57634
WDR3		-3.82924		-3.03418	-2.49719
VAPB		-3.53373		-3.29584	-2.54122
USP5		-4.213	-5.16359		
ZYX	-4.83593		-4.54926		
SP100	-4.73354		-4.66319		
RALY	-2.60518	-3.67978	-3.12544		
NEMF	-4.42756		-5.01646		
PSAP	-3.34017		-3.71244	-2.40718	
AP2A2	-2.97922	-3.48256		-3.02029	
METAP1	-4.06419		-2.49851		-2.91982
ENAH	-4.71096				-4.7803
CDC42	-2.32122	-3.98768			-3.18881
TNPO1	-3.24849	-3.65085		-2.61968	
HIST1H1C	-6.91493				-2.60484
TUBB3	-4.73396		-4.78903		
WARS	-5.15572		-4.37515		
CD59	-4.75384		-4.78659		
UBA2	-4.89314		-4.67893		
PRPF38B		-3.54769		-3.40695	-2.62022
ARHGEF2		-2.78455		-3.10264	-3.7023
NAP1L4	-5.47449		-4.12747		
GPHN	-5.13424		-4.47534		
SNRNP70			-4.55068	-2.41321	-2.64592
WDR18	-5.0344		-4.58206		
UFM1	-4.89767		-4.76829		
CYP51A1		-3.73038		-5.96196	
CPVL		-5.4424			-4.2537
PBRM1	-4.78234				-4.92936
SNRPF	-5.4403		-4.31862		
RPS23	-4.84824		-4.92265		
LIN7C	-2.84649	-3.059			-3.89662
TMA7	-2.73546			-3.1863	-3.88632
VDAC1	-2.90308	-4.83426	-2.09202		
SFXN1		-4.07149	-2.53401	-3.24535	
PDS5B	-2.29458	-3.72636	-3.83438		
DDX3Y	-4.87728		-4.9927		
UBAP2	-5.29387		-4.57933		
DDX4	-5.38665		-4.50033		
WIZ	-6.98563	-2.90547			
NQO2	-4.66075		-5.23061		
SHMT2		-4.88627	-2.4464		-2.5612

RPL37AP8	-4.81884		-5.08944		
CUL2	-5.26537		-4.64689		
CHD1	-4.99269		-4.93317		
CBX1				-2.85673	-7.07467
PEF1	-4.96097		-4.98645		
PSMD9	-3.35861		-3.03762	-3.61609	
UBE2C	-4.96723		-5.05212		
PSMB7	-4.99691		-5.02693		
SCRN1	-3.321	-3.44747	-3.26833		
RAD23A	-4.9263		-5.12115		
ABCF1	-5.11395		-4.95057		
PRPSAP2	-5.0134		-5.07188		
IMPDH1	-5.02296		-5.06672		
PPHLN1	-6.32944			-3.76064	
AHSG	-5.48552		-4.61205		
DPYSL5	-5.00661		-5.10738		
40057	-5.05453		-5.06188		
UTP14C		-3.05368		-4.04766	-3.02347
PMPCA	-5.08401		-5.04885		
NDUFB11	-5.03812		-5.10792		
ARPC3	-4.98152		-5.16532		
HEATR6		-3.60184		-3.18711	-3.36476
CUL3	-5.01355		-5.16701		
HUWE1	-5.18949		-4.9915		
GLA	-3.52324		-4.1116	-2.55036	
PICALM	-4.98764		-5.20744		
SETBP1	-3.23814		-2.19544	-2.43078	-2.33952
CLTA	-5.15511		-5.0495		
RCN1		-4.60421	-5.61306		
RP2		-4.73142		-5.49054	
PPWD1		-4.07591		-3.85409	-2.29802
LSM4	-5.11358		-5.12604		
CAPZA2	-5.10779		-5.16442		
BMI1		-3.34419		-3.53182	-3.40366
COMMD3-BMI1		-3.34419		-3.53182	-3.40366
HCFC2	-5.11933		-5.17764		
CTBP2	-5.18113		-5.14157		
38412	-5.51515				-4.82794
C21orf33		-2.84652		-4.76611	-2.7338
RPL36AL	-5.08422		-5.26737		
ATXN2	-5.20544		-5.15133		
SLC25A22	-4.37147			-5.98652	
NCL	-5.1951		-5.17527		
EIF4G2	-5.14859		-5.24274		
NMT1	-5.19477		-5.20825		

SNTB2		-3.39082		-3.46232	-3.55232
CTCF	-4.34618	-6.06313			
PRPF40A	-5.10702		-5.30669		
ARF5	-5.33067		-5.11866		
RAB1B	-4.18665		-3.00065		-3.28151
FAM175B			-5.17507	-2.74936	-2.54773
TKT	-5.18734		-5.29357		
SAP18	-3.06078		-3.70123	-3.72727	
THUMPD3	-5.17619		-5.33398		
NT5DC1	-5.17546		-5.34986		
SETDB1		-4.0699		-3.3368	-3.14468
UBL5	-5.24881		-5.3062		
STX7	-5.22226		-5.34347		
GEMIN4	-5.29151		-5.2825		
HGH1	-5.36044		-5.21663		
FANCD2	-4.39534	-3.39663		-2.78915	
AGAP3	-5.16439		-5.42309		
FSCN1	-5.20616		-5.38437		
EXOSC4	-5.24928		-5.35449		
AGPS		-2.50917		-4.24536	-3.85585
RPL30	-5.276		-5.34641		
WBP2	-5.15898		-5.48695		
SH3BGRL3	-5.28028		-5.37256		
HDGFRP2	-2.58552		-5.47177		-2.60655
ATXN2L	-5.52365		-5.16924		
ATP6V1C1	-4.76679		-5.94906		
IDH3G				-6.39724	-4.35597
EIF2B4	-5.3329		-5.46787		
RBX1	-5.28425		-5.51745		
YY2	-5.33875		-5.46823		
MOV10	-5.30182		-5.50666		
PES1	-5.21455		-5.60867		
YY1	-5.38705		-5.44456		
STAU2	-5.36044		-5.47655		
DHX29	-5.42581		-5.41687		
LMAN2		-2.34893	-2.28961	-3.50628	-2.70462
MPP2		-3.76485		-3.67235	-3.44247
FKBP8		-3.67032		-4.12437	-3.09781
GNAI2		-3.16008		-3.74314	-3.99447
MRPL18		-5.24861		-5.67797	
PSMA1	-5.42478		-5.53711		
DNAJB2	-6.03464			-2.38711	-2.54064
DNAJB8	-6.03464			-2.38711	-2.54064
TAMM41		-3.36405		-4.66698	-2.93195
EIF4A3	-5.44501		-5.51983		

PEPD		-2.76497	-5.4764		-2.75626
CYB5B		-6.36358	-4.63931		
EIF2D	-5.40286		-5.60344		
POFUT1				-5.75475	-5.26284
NDUFA10	-3.24752	-3.60031			-4.17017
CHMP4A	-5.48369		-5.55014		
TCEA2	-5.39512		-5.65493		
RHOT1		-3.74272		-7.31573	
SNRPC	-5.58285		-5.52619		
STUB1	-3.92477	-3.73239			-3.46567
SAFB2		-3.06912	-4.60543	-3.46055	
FAM136A		-5.23778	-5.91488		
UBE2M	-4.24912	-2.81917	-4.09508		
EDC3	-5.48378		-5.68883		
PRRC2C	-5.58983		-3.01498		-2.65192
PAWR	-4.58111		-4.45304		-2.26864
GOLGA2	-2.7806	-2.51629	-2.91372		-3.10505
TRAFD1	-3.98275	-4.05569		-3.31801	
GNB1	-5.49391		-5.87767		
GNB3	-5.49391		-5.87767		
GNB4	-5.49391		-5.87767		
ORC3	-6.17445	-5.20798			
GNS		-3.14873	-2.4517	-2.61484	-3.19029
MRPL12	-2.38675	-3.73615	-2.8855		-2.40367
MCMBP	-2.62091	-2.63354	-3.32203		-2.88382
CHMP2A			-8.38675		-3.0744
LONP1		-2.86443	-4.1874	-4.44743	
TIMM44		-2.8853		-4.98545	-3.66437
BCLAF1		-4.29612	-2.34998	-2.75751	-2.14279
GOSR2		-3.95512		-3.88284	-3.72695
NOC3L	-4.32896		-3.1959	-4.05198	
PARK7	-3.00919	-3.22959	-2.84157		-2.59614
EPHA1	-4.15138		-3.58684		-4.03002
SUCLG1		-3.46448		-3.96362	-4.35338
CNN2	-6.17768		-5.64357		
PPT1		-3.74877		-4.11602	-3.96962
KRI1		-4.11759		-4.63576	-3.09851
MECP2	-6.18222	-5.68881			
NOL8	-2.55287	-2.71579	-4.00582		-2.62134
NUP35		-5.65169		-6.26674	
TARS	-4.72172		-4.6589		-2.54737
DKFZp434B2017			-6.64535	-2.69994	-2.61401
SAR1B			-6.64535	-2.69994	-2.61401
RTN3		-4.10978		-4.04689	-3.82128
C1orf177				-6.14604	-5.85764

COMMD2	-4.68347		-5.19203		-2.27032
ERGIC1		-3.71089		-4.85396	-3.58105
TTF2		-4.62721		-4.06148	-3.55086
TXNL1	-2.86852	-2.8697	-3.61911		-3.0023
AK4		-4.62678		-3.77172	-3.96586
SCO1		-3.83004		-4.48657	-4.05078
TMEM9		-3.89816		-3.98584	-4.49315
TMEM9B		-3.89816		-3.98584	-4.49315
GFM1		-3.92401		-4.14499	-4.35653
NDUFAB1	-5.81197		-6.61624		
TMEM14C			-5.22974	-7.21915	
HSPE1	-4.14218	-5.73122			-2.63475
IDH3A	-5.18459		-3.14165		-4.18567
TMCO1	-2.56054		-2.36749	-3.92238	-3.74188
CSTF3	-2.3532	-2.50969	-3.10436	-2.30972	-2.34044
CPSF7		-5.77997	-4.6965		-2.20088
CALR	-5.35053	-2.69299	-4.64149		
NME1	-4.43498	-5.94861		-2.34445	
PTRH2			-8.00107		-4.78209
MCCC2	-4.84016		-2.54862		-5.47081
APEX1	-3.33628	-3.57487	-3.09678		-2.89609
NDUFA6				-6.66898	-6.27734
CDC37	-7.28916		-5.667		
ACADM	-4.719		-5.41325	-2.90126	
MT1A	-2.05102		-5.83746	-2.62587	-2.52434
MT1H	-2.05102		-5.83746	-2.62587	-2.52434
RPL13	-5.46717	-2.58319	-4.99943		
UBE2Z	-5.49358		-5.29869		-2.27474
CTTN	-4.30125	-3.56782			-5.23132
MAP1B		-5.43848		-3.03527	-4.70315
ADRM1	-5.33097		-5.4056		-2.47535
ESYT1		-4.79004		-4.37247	-4.05334
IK	-3.38961	-2.64044		-2.52779	-4.75057
DHRS7B	-4.58462			-4.33758	-4.38677
UGGT1	-5.11683	-2.76358	-3.05656		-2.46279
HSPE1-MOB4	-3.23368	-4.0111		-3.12631	-3.05904
RAD50		-5.36733	-2.16348	-5.91134	
HMG20A		-4.67572		-4.56977	-4.19991
CNNM3	-4.66971		-4.31566	-2.33552	-2.15286
RPS3	-5.34447		-5.48168		-2.67984
BTF3	-5.36551		-5.44561	-2.70996	
MATR3	-5.40709		-5.56565		-2.56844
PSMD12	-2.98997	-2.80551	-2.71074	-2.4264	-2.61373
DHRS7		-4.54783		-4.38014	-4.70061
MT1E	-1.90839		-5.72035	-3.45283	-2.58518

MT1M	-1.90839		-5.72035	-3.45283	-2.58518
JAGN1		-4.53325		-4.08778	-5.12467
CLPX		-4.63526		-4.93575	-4.20839
DDX46	-5.43041		-5.50861		-2.8412
NGDN		-4.45889		-4.68392	-4.64443
HMOX1		-4.79941		-4.51003	-4.48586
TFAP4	-4.22933	-5.57836	-4.03547		
PPME1	-2.64273		-5.17564	-2.53922	-3.48733
CPNE1	-5.57377		-5.46115		-2.86431
MAX		-4.74957		-4.84326	-4.35054
RFC5	-5.43826	-2.47188		-2.7125	-3.33095
UQCRQ	-4.28939	-4.29262			-5.44637
TIMM10	-4.3286	-3.09454		-3.16109	-3.49763
UTP15		-4.58118	-4.53769	-4.98248	
TIMM13		-3.68461		-4.36592	-6.07823
ADNP			-4.80324	-5.01589	-4.42862
SERPINH1		-4.26912		-4.57537	-5.41792
SCP2	-4.91417	-2.95046		-3.12866	-3.32114
TXNDC12	-3.01486	-6.43455	-4.87861		
LOC102724023	-4.06112	-2.84652		-4.76611	-2.7338
TPM2	-8.14504		-6.30169		
PHB2	-5.1345	-4.12903	-5.20613		
AIFM1	-3.06203	-5.37535			-6.11288
TSFM	-7.0763		-7.48703		
TBRG4			-8.01511	-6.55018	
DAD1		-4.53747		-5.35563	-4.79011
SMARCD2		-2.59053	-4.82123	-3.05095	-4.23525
DNAJC5	-4.00914		-4.0936		-6.61822
MAVS	-4.0558	-5.39016			-5.33162
ACTN1	-3.48866	-2.7941	-3.21103	-2.44676	-2.9254
MSN	-2.83167	-3.36124	-3.56515	-2.47958	-2.64647
ZMYND8		-4.6335		-4.91241	-5.49429
INIP	-4.72402	-5.6999			-4.70403
SNRPA	-5.30764		-5.46036		-4.38323
VDAC3	-4.53121	-5.48841			-5.14844
ZNF512B		-5.338		-5.09391	-4.76411
SRP19	-3.37202	-3.93829	-4.89042		-3.15809
PRCP	-4.76167		-3.354	-2.67971	-4.58639
DKFZp586I031	-4.15888	-4.361	-3.68584		-3.20434
RANBP9	-6.40128		-6.34442		-2.67906
RRP7A	-4.3798	-2.91847	-4.43268		-3.74879
HMGN1	-3.5904	-3.4589	-5.82133		-2.69414
DEK	-3.77993	-3.6507	-3.95312	-2.04949	-2.14392
MDN1		-4.54175	-3.78285	-3.27771	-4.18968
SF1	-5.16805		-5.49349	-5.18505	

BZW1	-5.1836	-2.7509	-5.3713		-2.63846
ANXA11	-4.83932	-6.09241			-5.02165
CAP1	-5.18982	-3.17587	-5.08555	-2.51284	
IDH2		-4.05946	-7.86899	-4.09984	
PTMA	-5.602		-5.44764	-5.03521	
SNRPB2		-4.62129	-4.71635	-2.01677	-4.7376
SEC62	-4.54965	-5.2489		-6.45647	
RBMX	-5.33708	-2.61962	-5.25035		-3.21317
RPE	-3.28054	-3.64313	-3.82479	-2.60527	-3.23376
NAA40	-5.09673	-5.35421			-6.19277
MT1X	-2.9782	-2.78665	-5.79498	-2.85535	-2.26362
MT2A	-2.9782	-2.78665	-5.79498	-2.85535	-2.26362
SOD2	-5.91184		-3.26194	-5.34618	-2.19625
GRB2	-9.16285		-7.65953		
NDUFB6	-5.42338	-5.46366			-5.98308
NDUFAF4	-5.72997		-4.83802	-6.33355	
ASPH	-5.77709			-5.86088	-5.28466
MT1G	-2.9782	-2.78665	-5.79498	-2.85535	-2.52434
DACH2		-3.80242	-5.92202	-3.71579	-3.65165
ELP2		-5.4057	-5.79084	-5.932	
MTA3	-6.1469	-3.67048		-3.38313	-3.92985
SLC9A3R2	-4.40207	-4.60387		-4.32164	-3.81287
SUB1	-5.39265	-3.46832	-5.5043		-2.87185
SMN2		-4.68197	-5.42319	-3.89829	-3.36153
PLRG1	-8.04049	-2.78957		-3.37825	-3.3182
RRP12	-5.36632	-3.05996	-4.28759	-2.77763	-2.16175
SMN1		-4.68197	-5.42319	-3.89829	-3.79806
RSF1	-6.21257	-3.85022		-3.97181	-3.85585
MRPS9		-3.85657	-5.63076	-3.95807	-4.58373
BZW2	-5.19822	-3.51046	-3.67222	-3.30828	-2.56986
OCIAD1		-2.57664	-4.65574	-6.09395	-5.08529
HYPK	-3.71704	-4.22669	-4.34784	-2.91311	-3.29858
PPP1CB	-4.02021	-3.71616	-4.05608	-3.04163	-3.94469
AGK		-4.36255	-4.83768	-3.98762	-5.63657
DDI2	-5.39539	-3.08091	-5.28125	-2.02811	-3.08391
APOBEC3C	-4.1035	-4.30468	-3.84372	-3.01634	-3.69735
DBN1		-5.63316	-2.16243	-6.55343	-4.70641
SF3A2	-5.23048	-2.97988	-5.14375	-2.63277	-3.10627
TLE4		-4.46563	-5.29177	-4.7632	-4.59071
NEFM	-2.54426	-3.61926	-5.20928	-3.61604	-4.13612
ATPIF1	-2.51958	-3.37858	-2.92975	-5.32616	-5.05754
NKRF	-3.70094	-4.08181	-4.49043	-3.79031	-3.15827
REEP5	-2.59855	-3.84474	-3.26312	-4.27733	-5.3644
HNRNPM	-4.6232		-5.89498	-3.03692	-5.9222
HEL-S-109		-4.69888	-4.88773	-5.72282	-4.31641

NUCB2		-4.69888	-4.88773	-5.72282	-4.31641
NDUFA5	-4.13452	-4.9973		-5.39188	-5.12436
RBM3	-2.81892	-14.1762		-2.85664	
HSDL2	-4.27402	-3.4536	-4.56017	-3.42502	-4.17366
HAX1	-4.00028	-4.31192		-6.11799	-5.4582
LMAN2L	-4.01871		-4.91898	-5.42342	-5.61509
ATP5F1	-2.94982	-5.58179	-4.8878		-6.55835
CECR5	-4.88664	-5.25284		-5.70863	-4.30323
HMGH4	-5.96091	-5.89779		-4.44234	-3.95113
UBE2D2		-2.62528	-8.24164	-2.14884	-7.38529
COA3	-5.10828		-5.69513	-4.55435	-5.16686
RPL10	-5.51928	-3.34035	-5.69653	-3.86441	-2.13874
STMN4	-4.76667	-4.16353	-5.02247	-3.33121	-3.44606
PCYOX1		-5.28724	-4.95108	-5.72388	-4.78503
TCOF1	-5.05379	-2.69368	-6.64848	-3.11296	-3.3235
DPM3	-4.90599	-4.34918	-4.40864	-4.13019	-3.14252
FDPS	-2.66969	-7.34411	-4.13682	-3.0395	-3.78747
PHPT1	-5.3406	-3.65272	-5.20599	-2.7562	-4.02919
H1FO	-2.39947	-5.97462		-5.40733	-7.22845
LARP1	-5.21268	-4.44767	-4.39428	-3.35169	-3.66781
PELO	-4.51194	-3.94831	-4.43919	-4.3095	-3.89211
EIF3M	-4.33676	-4.41178	-4.45814	-3.87372	-4.03554
AP1G1	-5.0688	-5.35742	-5.50152		-5.22496
MRPS30	-6.23161	-4.6515	-5.9626		-4.49192
SEC31A	-6.20277	-2.68174	-6.57541	-2.74045	-3.16096
PLAA	-6.78559	-3.09967	-4.882	-3.17408	-3.64067
SRFBP1	-4.66159	-4.33369	-4.68749	-4.13513	-4.07435
PTCD3	-5.70367	-6.49356	-4.04004		-5.68621
MAGED2	-5.40322	-3.85146	-5.4058	-3.21653	-4.07487
EIF3B	-4.47637	-4.32124	-5.30535	-3.38505	-4.56041
CS	-5.22042	-4.53609	-5.55184	-2.87752	-4.26252
EIF3G	-5.6313	-3.55223	-5.87966	-3.61441	-3.93971
REXO4	-6.15304	-3.13372	-6.20833	-2.7367	-4.49684
UQCRB	-4.84067	-6.32612		-6.16547	-5.84958
RNMTL1	-5.13713	-4.86181	-4.63101	-4.26204	-4.334
SUGP2		-5.40913	-7.67616	-5.24679	-5.00569
HIST1H1B	-5.44266		-5.42009	-9.51478	-3.55424
TNPO3	-2.03511	-5.51842	-5.94533	-5.99495	-5.15353
ACSL3	-4.63473	-5.94915	-4.2796	-4.96273	-4.9775
SRP68	-8.73227		-8.22924	-8.11074	
LCP1		-6.12033	-6.77008	-5.44633	-6.90431
TMEM41B		-5.69977	-8.445	-5.62613	-6.30196
POLRMT	-4.86626	-5.38373	-4.42114	-6.32853	-5.37705
MARS	-5.36	-5.21882	-6.09765	-3.98115	-5.75213
YARS2		-5.91674	-8.7079	-6.18342	-6.25421

HNRNPL		-8.75538	-10.8127	-4.99085	-2.83198
CBS	-5.30031	-4.80775	-5.59167	-5.88416	-6.83911
PDCD5	-5.4503	-6.92339	-5.15005	-5.4894	-6.41734
EIF3H	-5.35421	-7.169	-5.42644	-5.96185	-7.1057

Table S2. GPR19 induced protein expression alterations in the plasma membrane (CE2) compartment. Significantly-regulated proteins (identified by official Gene Symbols) found in cells, differential between mock-transfection and the specific GPR19 expression level (0.5, 1, 2, 5, 10µg), are represented as a log2-transformed and normalized expression ratio between the specific GPR19 expression level and the expression level found in cells receiving empty vector transfection.

Gene Symbol	CE2 0.5	CE2 1	CE2 2	CE2 5	CE2 10
RAD50	8.396166	7.69871	7.083238	6.343929	7.324503
TACC3	5.255857	5.646168	5.230488	6.347601	4.998936
PGM3	5.856697	5.963834	5.085445	5.101395	5.409277
PDAP1	9.222202	8.955604		3.87075	4.442603
DIABLO	5.956536	6.117558	6.896559	6.473151	
COLGALT1	4.255547	4.442226	4.261642	4.248381	4.5388
UBA2	7.754652		6.813613	7.129645	
CLGN		7.256758		6.912912	7.304615
RPS24	5.218748	5.433923		5.209906	5.444566
FARSB	4.224168	4.234982	4.570312	3.002996	4.990068
RTN3	2.830226	4.197738	3.638109	4.835835	4.50803
MDC1	4.897054	3.58098	2.029585	5.436453	3.1684
ETF1	4.890324	4.824556	5.130607	4.003568	
CCDC6	4.36654	2.398018		3.744082	8.004424
DDX19A	5.441245	6.157138			6.622569
NAA10	4.573187	5.639501		3.14981	4.746903
GRB2	4.527323	4.485842	4.436292		4.659344
KIAA1524	2.59011	4.156684	3.005384	4.310237	3.836749
ANP32C	4.219499	4.218817	2.080707	2.471282	4.806223
DCTN1	8.396502		2.100582	3.739887	3.223941
GMPS	3.904269	4.159791	3.007207	2.588598	2.444054
COPS4	3.806237	4.614148		2.947247	4.438288
RIF1	8.395669			7.335939	
AHSA1	4.264408	6.039251		5.175856	
RRP9	3.0736	2.589998	3.621747	2.618888	3.381173
LTA4H	2.815766	2.892392	3.123152	2.605819	3.758297
BAG6	3.386025	4.516488	3.491089	3.374618	
TERF2	3.283414	4.624034	2.906634	3.870694	
NHP2	2.533864	2.560516	2.520298	3.648656	3.400519
PSIP1	7.232805				7.136455
SSU72	3.557537	3.097957	2.600004	2.923984	2.12216
KRI1	4.524278	3.83669		2.507333	3.299088
HN1	3.702839	3.502694	3.077645		3.847221
RANBP3	3.265385	3.449178	2.209416	1.777415	3.281335
ATIC	2.630077	2.766063	3.388891	2.269906	2.89886
TPT1	3.144038	3.478618	2.276382	2.254789	2.753835
PRPSAP2	3.077188	2.422165	2.700893	2.202787	3.381976

HSPB1	8.395398		2.782095	2.552177	
EEA1	2.85673	2.62576	2.973406	2.73763	2.421728
GPI	6.680979	6.906951			
KLF12		3.011002	2.833759	2.274424	5.329515
KLF3		3.011002	2.833759	2.274424	5.329515
KLF5		3.011002	2.833759	2.274424	5.329515
KLF7		3.011002	2.833759	2.274424	5.329515
MYNN		3.011002	2.833759	2.274424	5.329515
ZKSCAN7		3.011002	2.833759	2.274424	5.329515
ZSCAN16		3.011002	2.833759	2.274424	5.329515
ZSCAN2		3.011002	2.833759	2.274424	5.329515
ACTBL2	2.89498		3.911076		6.579158
ABCF2	2.759438	2.598108	2.845067	2.699784	2.391323
LSM14A	8.398797		1.642354	3.232209	
RPS10	1.36594	2.068691	2.635922	4.785406	2.155432
ANP32A	2.807105	2.850172	2.17328	2.199548	2.798892
MGEA5	2.911222	3.078775	1.826328	2.369549	2.559235
PSMA3	2.017553	4.06889	3.505596	3.14588	
PGP	2.84083	2.91989	2.143372	1.975463	2.667839
STMN4	8.396872		1.458049	2.606697	
NSF		4.198847		4.490125	3.667606
REXO4	8.399349	3.744074			
BLVRA	3.132613	3.233212		2.617496	3.08048
HDAC2	8.395493	3.665376			
NPEPPS	3.345038	3.752324	2.212608	2.704853	
CHCHD4		3.589819		4.102385	4.160435
WDR6	2.815243	3.816346	2.16487	2.989692	
MSH6	2.762846	2.957977	2.896963		3.017527
CTTN			2.866922	4.860484	3.817058
CUL4B	3.154114	3.013078		2.628965	2.710734
DDX51				6.285229	5.18558
FLNB	2.663663	2.754046	1.543499	1.975149	2.407077
EIF4A1	2.112437	2.434614	2.537098	1.611386	2.6457
TMSB10	2.358047	3.15616		2.113698	3.636859
ATAD1	8.39645			2.62197	
NUDT5	1.554188	2.607565	1.868897	1.852188	3.08241
CTPS2	5.507572	5.451168			
ASNS	2.708524	3.149188		2.353701	2.572353
EIF3B	2.291517	2.446221		3.424307	2.447734
ESD	2.936422	2.585656		2.271308	2.731271
MTHFD1	2.933236	3.364453	1.966768	2.130307	
DBI	2.585513	2.694352		2.099327	3.007038
SMNDC1	8.398417		1.918355		
YWHAH		3.636871	3.743545	2.875597	
TSPYL1		4.12942	2.117655		4.002969

TOP2B	4.057183	3.388927			2.767654
PSMA2	3.189391	3.625871	3.235108		
DBNL	2.477241	2.689188	2.181023		2.682106
C12orf43		3.361569	3.543783		3.081793
ATF1	2.544336	2.539029	2.654205		2.245269
CREB1	2.544336	2.539029	2.654205		2.245269
CREM	2.544336	2.539029	2.654205		2.245269
TUBB3	8.395337		1.570525		
RGS10	2.78774	2.96248	2.127421	2.082464	
GLO1	2.543639	2.627275		1.79655	2.967073
TKT	3.254846		3.348993	3.296897	
STRAP	2.467938	2.649202	2.640798	2.001073	
ATP1A2			2.322769	4.28073	3.06016
HIST2H2AA3			2.083622	4.715684	2.783803
PFKP	3.171084	3.09114			3.290698
CAD	2.682196	2.644532		1.851236	2.342075
TRMT6	2.405282	2.789246		1.889109	2.337332
EIF4G1		2.235987	1.727318	3.032223	2.271037
NUP50	3.44336	2.277269			3.482992
SART3	2.044567	2.726008	2.262118	2.105084	
ADSL	2.399793	2.613935		1.785176	2.321479
VRK1	2.106812		2.177151	2.355274	2.442467
NMT1	3.506067		2.61793		2.714857
RAB11FIP1		2.641627	3.469086	2.678778	
ANAPC7	2.82991		2.982728		2.908205
ARL3	2.062439	2.208102		1.794842	2.620009
AP1M2		4.23929			4.427896
PSMC3	2.874807	3.243435		2.506897	
GSTO1	3.12412	3.250886		2.190064	
HAT1	2.655587	2.98603			2.920157
IMPDH2	2.106161	2.519863	1.882199		2.026422
RPS19		4.045033			4.455749
CBR1		3.065652	3.284494		2.100458
CBR3		3.065652	3.284494		2.100458
TXNDC12	8.397056				
STX18	8.39644				
WIZ	8.39617				
TOX4	8.395991				
DDX52	8.395844				
FDFT1	8.395719				
RIC8A	8.395663				
PDE9A	8.395463				
FAM21D	8.395418				
RNF14	8.395376				
C5orf24	8.395375				

WDR3	4.357123	2.050935			1.931114
ADNP	2.088494		1.365711	3.057401	1.812595
CPNE3	2.254952	2.291597		1.594939	2.172848
ARHGDIA	1.802579	1.656896	2.485199		2.318728
NAE1	2.288575	2.383351			3.505206
TNPO2	4.066277				4.047242
PFKL	3.055048	3.022286		1.980592	
DYNC1LI1		2.781648	2.636195		2.509732
DYNLRB1		1.400357	2.021666		4.359371
HMGN2			1.925437		5.701539
PAK1		3.583922			4.001088
CUL4A	2.822311	2.557187		2.192953	
BLVRB	2.613873	2.691149			2.246742
RRM1	2.327804	1.518488	1.545126		2.123231
IK			1.837014	1.870852	3.731015
CDC27				3.722954	3.671455
FKBP1A		3.971498	3.326964		
IDH1		3.180389	1.80409		2.286727
SRCAP		3.916234			3.249127
CCDC124	2.154575		2.730384	2.260632	
HMGN1		1.260303	1.615465	4.202282	
RAB5A				4.87823	2.154035
ANXA6		3.524212			3.496774
NSFL1C			2.492627	1.815971	2.67758
SUPT5H		2.606333		2.052731	2.242365
H2AFX		2.344584			4.554693
OSBP	3.503244	3.39253			
NCAPH	2.622689				4.26361
SDHA			3.77281	3.091626	
TBRG4		3.949745	2.882558		
GSTP1	1.831634	1.88716	3.100771		
SMS	2.342579	2.89901		1.570894	
PPAN			3.116608		3.68206
PSME3	1.675126	1.972155	3.035634		
ILK				3.172317	3.458382
PFDN2	2.296509	2.473959		1.773901	
PHPT1	2.115589	2.263457		2.154205	
EEF1D	3.248443	3.264089			
SMN1				4.286629	2.1458
SMN2				4.286629	2.1458
NDUFS8				3.055673	3.338904
PRMT1	2.142419	2.22586	2.010731		
UCK2	1.61479	1.611933	1.854843		1.19442
RPIA	2.937837				3.250943
PIN1	2.208864			1.713509	2.240623

EIF5	1.42314	1.502995	1.609835		1.550721
IKBKAP		2.322042			3.750714
DDB1		4.282996	1.675605		
IWS1	2.580707				3.364823
FERMT2	2.110109	2.277672		1.52274	
RPL3L	2.500626		3.394207		
SMC4			2.669424	1.960001	1.252565
PSMA4	2.328312	2.331153	1.218382		
MCM3	1.542041	1.402712			2.891169
NPEPPSL1		2.245471	1.864875	1.628121	
NASP	1.579377	1.254726	1.565387		1.269363
NAP1L4	2.848959		2.765722		
USP5	2.758499	2.834105			
CIRH1A		2.703142	2.87378		
STAG2			2.264161	3.310964	
NDUFAF3	1.924381			1.6416	1.872009
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PSMC2		1.355187	2.211635		1.832703
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AK1	2.498222	2.590154			
DISC1	2.109011	2.937282			
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GLOD4	3.679702		1.309835		
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COQ9	2.333146			2.18664	
CNN3	2.500506		2.009336		
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MRPS17				-2.03559	-1.24748
ALDH16A1					-3.28612
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POLR3C				-3.46868	
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ACYP1					-3.48797
STAU1					-3.4887
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TMX1					-3.52259
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DYNC1I2				-3.56886	
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DIS3		-1.90975		-1.72691	
XRCC1			-1.1455	-2.49524	
HOXA13					-3.64491
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TXLNG				-3.66183	
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HECTD3					-3.72409
CLTB					-3.73507
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EIF2AK2					-3.80849
TFIP11					-3.81579
PPFIA1				-3.82195	
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PPM1A		-4.01172			
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CPOX			-4.03028		
MAP4				-4.03182	
MEAF6			-4.03853		
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POLR2C				-4.06338	
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FASN					-4.12602
GNG12				-4.15533	
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NDUFC2					-4.18403
PRPS2					-4.18426
PDHA1	-2.21009		-1.98701		
SCAF8				-4.19766	
PPA2	-1.49032	-1.38529			-1.32398
ACAA1	-1.47217	-1.15649	-1.57531		
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TBL3	-1.54275			-2.70846	
TRUB1				-4.2708	
HSP90AA2P					-4.27412
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RPL36				-4.2835	

ANKFY1				-4.29324	
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ELP2			-4.32408		
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SMARCD1				-4.34978	
OXSM	-2.39439			-1.95754	
UQCR10	-2.00223	-2.35803			
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CHRA1	-1.27144	-1.74736	-1.36014		
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FKBP8			-1.01069		-3.37283
TSFM				-4.38379	
VTA1	-2.055	-2.33322			
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RPL9		-2.27986			-2.13205
AMOTL2					-4.42853
TRUB1		-4.43838			
MAGED2	-2.06713	-2.3916			
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SF3B1					-4.57216
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ABCD3		-2.26008	-2.32592		
PLAA					-4.59461
YWHAB				-4.5992	
TIMM13				-4.60816	
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CEBPZ		-3.38003	-1.25068		
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KRT76				-4.64438	
CTBP1				-4.64995	
SDE2			-4.65022		

NOL7				-4.66555	
GMPPA				-4.66765	
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EIF2B4				-4.70733	
ERP29		-1.11872		-3.59091	
PDE12	-2.15025	-2.56032			
THUMPD3				-4.71389	
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MAEA				-4.72551	
PPAN-P2RY11				-4.7386	
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TOMM20	-2.21888				-2.55522
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TMEM33				-4.82711	
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CD81	-2.13584	-2.71173			
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USP39				-4.84904	
RBM19		-4.85682			
ASPH	-2.24851	-2.63497			
AHSG				-4.88612	
TOR1AIP1				-4.8882	
USP34	-2.82085		-2.08015		
PROSC				-4.90439	
RCN2	-2.22305				-2.73821
GGCT				-4.96207	
RBM14	-2.04076	-2.92151			
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NVL			-4.97567		
PSMC6		-4.99497			
RTN1	-3.29104			-1.70514	
DNAJC7			-1.8517	-3.18239	
DHX29				-5.04615	
TAF15	-1.11609	-1.711		-2.22342	
BAX				-5.05475	
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CHMP2A				-5.12912	
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RALY		-1.28507		-1.75179	-2.13179
MT-CO2	-2.41993	-2.77347			
NDUFV2	-1.26997	-1.36095		-2.57023	
PEF1		-5.20455			
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KRT13				-5.25169	
ACAD9			-2.15766	-3.10984	
RAVER1					-5.30869
NAA40					-5.33189
TARDBP	-1.19714				-4.18102
TMED2					-5.38251
SAFB	-2.16012	-1.3745		-1.85451	
TMEM33		-5.39322			
CPD		-2.70313	-2.70265		
TRUB1					-5.41943
TAGAP				-5.42428	
MAP2K3					-5.43039
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SH3BGR13		-5.44046			
COPS3		-5.48223			
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ATAD3A	-1.60541	-1.15037	-1.52031		-1.24343
ATP6V0C	-2.73912	-2.78425			
BCAT2			-1.80275	-1.56661	-2.16978
GEMIN4		-5.54959			
ARID1A		-5.56581			
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BCKDHA		-5.63313			
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PLIN3		-1.11877	-1.985	-2.60175	
RRP8	-1.70817				-4.00527
CD99		-5.71952			
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RPS25	-5.80139				
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ATAD5			-5.81575		
CD59				-2.14399	-3.67455
EHMT1			-5.84813		
MT1X		-5.85808			
MT2A		-5.85808			

NUP205			-3.55359		-2.33282
TRA2B		-5.89274			
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HAX1		-2.69389			-3.2492
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SMARCA4			-2.73311	-3.22152	
C2orf47	-5.96365				
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RAP2A	-2.07935	-4.01827			
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RAP2C	-2.07935	-4.01827			
STRBP				-3.01574	-3.1323
NOL6	-2.55517			-3.61345	
PYCR2			-1.55106	-4.66974	
TMEM230				-3.00098	-3.23006
NOP2			-1.54071	-1.62757	-3.07817
TIMM50			-1.08509		-5.17657
MRPL48	-2.13757		-1.9629		-2.27709
HMGCS1		-1.30097		-1.8795	-3.21101
TMEM261		-4.09466	-2.30723		
COX7A2L	-2.06724	-2.24255			-2.1101
RSL1D1				-3.17901	-3.25101
TXN2		-2.421	-1.84366	-2.16848	
IPO5				-3.14492	-3.30814
FAM21A				-3.17259	-3.29602
FAM21B				-3.17259	-3.29602
FAM21C				-3.17259	-3.29602
COX7A2	-2.07222	-2.21869			-2.20402
RFC5		-5.41493	-1.10643		
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NOSIP				-3.5572	-3.06229
MTCH2		-1.34063	-1.57513	-2.35446	-1.38127
STARD9				-3.06675	-3.61982
FOXK2				-3.53532	-3.1841
CSTF1				-3.15913	-3.56433
NAT10	-2.25839		-1.93023	-2.54465	
DHRS7	-2.28325			-2.20695	-2.26981
SPAG9				-3.06006	-3.71783
PTBP1	-3.70981			-3.09116	
NELFE				-3.10898	-3.69972
PAWR				-3.30653	-3.54287
RPL34				-3.53235	-3.33301
EXOC8				-3.3176	-3.55322

LTV1				-3.31905	-3.55864
KHDRBS2	-2.10822			-4.77704	
SUMO2				-3.14314	-3.74358
WFS1				-3.12814	-3.78196
MECP2					-6.92443
COA3				-3.80588	-3.15464
DDX39A				-3.01825	-3.94828
ASH1L			-2.69874	-4.29071	
MDN1				-3.63795	-3.36677
RFC4				-3.41543	-3.62315
MAGT1				-3.27053	-3.77396
PHIP					-7.05966
ESYT2				-3.42465	-3.64985
CMC2	-2.21818	-2.38715			-2.47959
CNN2				-3.18052	-3.95121
PTMA	-1.395	-5.75057			
WDR36		-2.84368		-4.30302	
LMNB2	-2.59598	-2.65637		-1.89723	
SLC4A1AP				-3.00956	-4.1833
RHOA				-3.13484	-4.07863
RHOC				-3.13484	-4.07863
TPX2	-3.08298	-4.16594			
NDUFV1	-2.99511		-2.43244	-1.84207	
YWHAG				-3.39118	-3.87865
INTS7				-4.07894	-3.1932
AP2B1				-3.24324	-4.07281
CLNS1A				-3.11551	-4.20326
SLC7A5				-3.17012	-4.14879
UQCRH	-1.45192	-1.17514		-4.70018	
RAB25				-3.17212	-4.15641
RRBP1				-3.56851	-3.77629
TBCA			-2.27609		-5.09262
IDH3A				-3.30479	-4.07024
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PTMS				-3.7107	-3.70088
FKBP10			-3.55708	-2.18462	-1.69113
AIP				-3.45806	-3.97713
PPP1R12A		-5.73357			-1.75707
RPL23				-3.24746	-4.25723
WDR44				-3.24214	-4.26653
CSNK1E				-3.12889	-4.39302
RBM17	-2.19874	-2.2254			-3.10311
RPS4X				-3.34056	-4.19123

RPL29				-3.28229	-4.2508
TIA1				-3.12812	-4.4088
KIAA0415				-3.64867	-3.89251
ATP6AP2	-2.33239	-2.67079			-2.53825
MT-ATP6				-2.29688	-5.24547
WDR41		-4.086		-3.47256	
GIN52				-3.3788	-4.20023
UQCRHL		-2.44412		-5.14707	
TTC19		-4.16135			-3.4374
ITPA				-3.45766	-4.16155
ABHD14B				-3.10897	-4.52472
WNK1				-3.36277	-4.29584
SLC25A3	-1.82749	-1.57369	-4.26902		
SAMM50	-2.2448	-2.26097	-1.07063		-2.17178
MTX1				-3.68037	-4.07373
CKAP2				-3.47532	-4.27892
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PRPF31				-3.39862	-4.41143
LIMA1			-1.84207	-3.71416	-2.28907
MCM4	-2.25471	-5.59441			
AP3B2		-4.5168			-3.34889
HRNR				-3.05084	-4.81883
CD2BP2				-3.43418	-4.45231
HNRNPK				-4.12255	-3.77508
RBM26				-4.73399	-3.16759
ILF3		-1.70511		-4.70543	-1.49148
PDCD5	-2.12104	-5.8223			
GTPBP6				-3.39885	-4.54457
PLCG1		-7.96511			
TRIP6		-4.24489		-3.7342	
AKR1B15				-3.45482	-4.53834
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PEX19				-3.47768	-4.5816
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GPR180		-4.13587			-3.96937
YWHAZ				-4.42053	-3.69965
FARSA			-4.02699	-4.1994	
GNL2		-4.31173		-3.93002	
PSMD4				-4.61839	-3.62627
LDHAL6A		-8.25561			
MT1G	-2.40236	-5.85808			
MAP1B		-4.05975			-4.20494
DNAJC10		-4.30739		-3.96035	
DDX27	-3.1148		-3.22569	-1.92927	

LSM4		-5.25875			-3.01484
RAB11A				-5.04698	-3.23679
EIF3K		-3.00265		-2.74588	-2.55473
H3F3C	-2.75761			-2.36342	-3.19092
RABGGTB				-3.53706	-4.7778
SRP9				-4.74538	-3.58857
NKAPL		-4.88678		-3.46807	
PLAA		-4.31177		-4.07584	
PTGES2				-3.66506	-4.72322
YWHAQ				-4.08177	-4.35623
HMOX1		-5.7123	-2.73206		
HIST1H1C			-2.40476	-6.08997	
COX6C	-2.81842		-1.71594		-3.96451
CKAP5				-3.74204	-4.76417
GUK1		-4.49596			-4.06162
SBDS		-4.84746		-3.72805	
AMOTL1		-4.14956			-4.42853
ANXA2		-4.839		-3.74508	
BTF3		-5.63142		-2.96992	
CBS	-1.63566	-5.75762			-1.23532
COX6A1	-3.98046	-4.65076			
AGO1				-8.65215	
AGO2				-8.65215	
SRSF7			-1.13101	-3.43668	-4.08921
PDIA4				-3.93264	-4.74989
SLC25A1	-1.50294	-5.60842	-1.60133		
CISD2		-2.35429	-2.07909		-4.31148
GART				-5.25238	-3.51233
MAP2K2		-4.05906			-4.71988
GIN51		-4.85955		-3.95648	
PUM1				-4.8133	-4.01103
PUM2				-4.8133	-4.01103
TROVE2		-4.14842			-4.68103
CYC1	-2.15197	-2.23469		-1.92864	-2.52988
TMUB1		-5.05682		-3.82673	
CHEK1		-4.51662		-4.38117	
MRPS14			-2.12948	-3.51832	-3.25495
C1orf131		-4.53457			-4.39226
CDK9		-4.87376		-4.0882	
IST1		-5.13033		-3.8535	
CCDC40			-4.82984		-4.16978
GLMN				-5.04418	-3.97501
HP1BP3			-3.14241	-5.88943	
SAP18	-3.49771		-2.18656		-3.35724
RPL8		-4.84678		-4.20286	

GTF3C2		-4.60952		-4.45098	
H3F3A	-2.12328	-2.23795		-4.71127	
H3F3B	-2.12328	-2.23795		-4.71127	
SYNGR1		-5.02074		-4.07627	
OGT		-4.92156	-4.24194		
BRD4		-5.02508	-4.14031		
RPS15				-4.86189	-4.30683
NEFH	-2.87052	-4.17303			-2.16106
NEFL	-2.87052	-4.17303			-2.16106
TPM3		-4.39601			-4.82147
HBA1	-2.50671	-2.53685		-1.56821	-2.62687
SUB1		-5.57142			-3.69733
VDAC2	-2.30841	-2.82183	-1.81102		-2.38939
RANBP9				-4.73833	-4.60493
RRAS2				-4.17827	-5.17082
DKFZp434B156		-4.63979			-4.71204
WDR92		-4.63979			-4.71204
SEC62				-4.84079	-4.55023
VDAC1	-2.53362	-2.92457	-1.78329		-2.15886
ST13				-4.78378	-4.63474
SOAT1		-3.49965	-3.48529		-2.46681
RUFY2		-4.60552		-4.88068	
GPATCH11					-9.49448
RBM39		-4.49496	-3.17059	-1.83783	
LMNA	-3.79581		-5.72582		
RAC2		-5.57203		-3.96436	
RHOJ		-5.57203		-3.96436	
RHOQ		-5.57203		-3.96436	
CEP41		-5.141			-4.42394
YLPM1	-2.45473	-5.40533			-1.71539
SF3A2		-4.4419			-5.13753
CTBP2				-4.49793	-5.16507
PPHLN1		-5.10481			-4.57532
HMGA2		-3.65848	-6.02335		
TNPO3					-9.70358
HBA2	-2.72749	-2.92646		-1.61603	-2.4367
TRIAP1		-5.35211		-4.35707	
RPS27L		-5.29828		-4.42754	
ARL2BP		-4.7356			-4.99929
HM13		-5.05068			-4.69261
MGST3	-3.14725	-2.9052		-1.57709	-2.11466
DNAJB2		-4.84711			-4.9008
DNAJB8		-4.84711			-4.9008
DNAJC11	-3.65274	-3.00881			-3.1818
PPARGC1A					-9.84385

CLTA		-5.30729		-4.54192	
HGS		-5.25833		-4.5978	
SF3B3				-4.62915	-5.25897
EPS15L1		-2.87605	-7.09056		
PES1		-5.55959		-4.42919	
CRYZL1				-4.83561	-5.18759
SKIV2L2				-4.69759	-5.35572
MEPCE		-5.42665		-4.63997	
TFRC		-5.57094		-4.49902	
RBM28				-3.00508	-7.07548
NUP98		-5.01518		-5.07406	
KPNB1	-3.16513			-3.0591	-3.90285
FSCN1		-5.6395		-4.49059	
DDX4		-4.80487			-5.36272
MRPS28		-5.12944			-5.08914
LSM8				-4.97028	-5.25816
CPSF7		-5.69817		-4.5391	
RAB1C	-5.91716		-2.5459	-1.79511	
NCL		-5.16809			-5.13221
STX7		-5.65907		-4.68951	
MT1E		-5.65408		-4.70997	
MT1M		-5.65408		-4.70997	
CDCA8			-5.2425		-5.13705
CHAMP1	-2.23695		-2.9058	-2.21022	-3.02848
WDR18		-5.24793			-5.16225
RRP12	-2.08871	-4.06382			-4.26062
GNG5		-5.57425		-4.84613	
FAM175B				-5.1112	-5.32811
SNW1		-5.64928		-4.80456	
PLD3		-5.40644			-5.06644
RAB11B				-5.04698	-5.45634
DDX56			-5.34119	-5.17294	
WHSC1		-5.16936			-5.36385
VASP		-5.70242		-4.8337	
RNF2	-2.33388	-2.36074		-1.98143	-3.86897
EIF4G2		-5.48206			-5.08561
MRPL17			-1.97804	-3.95169	-4.64126
HMGNA4			-2.72288	-7.87682	
MTDH	-1.90429			-3.49204	-5.22578
MOV10		-5.68855		-4.93964	
UBE2Z		-5.697		-4.94406	
RPL36AL		-5.67877		-4.96381	
39692		-5.68145		-4.96534	
UBE2M		-4.54843	-1.93107	-4.1678	
EDC3		-5.75713		-4.90637	

COX6B1		-5.9008		-4.83895	
SLC1A5		-5.35869			-5.40056
BZW1		-5.44741			-5.33136
RBMX		-5.53896			-5.2477
COX7C		-2.76849	-2.31884	-1.65038	-4.06832
DLST	-2.48366	-2.4251	-2.5143		-3.39986
TCOF1	-1.45164	-4.49974			-4.93249
POLB		-7.79241	-3.1356		
SNRPC		-5.67795			-5.37456
MRPS18B	-2.90244	-2.86728		-2.89248	-2.41458
SUMO3		-4.06265		-3.18767	-3.89006
UQCRCQ	-2.11449		-4.67424	-1.56468	-2.81289
GAA		-4.06222		-3.24698	-3.85976
HK1		-4.09056		-3.54464	-3.55586
SUGP2		-4.41057		-3.24987	-3.54935
RBX1		-5.77827			-5.44682
RPL28		-4.23497		-3.82166	-3.18338
ZMYND8		-7.02508	-4.37559		
RPL31		-4.06908		-3.75689	-3.62684
HADHB		-4.07579		-3.30736	-4.07987
PELP1		-4.07796		-3.23482	-4.15884
RPS11		-4.09635		-3.86837	-3.59124
ARF4		-4.09117		-3.37664	-4.0977
TEX264		-5.50303		-4.673	-1.51501
SON			-1.91385	-4.93533	-4.85748
RAB1B			-2.13808	-5.01685	-4.60889
CHP1		-5.28051		-3.95732	-2.56045
FAH		-5.1045		-3.01662	-3.75371
DDX54		-4.23121		-3.12502	-4.52775
NOLC1	-1.35961	-5.73305		-4.85054	
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P3H1		-4.0658		-3.24516	-4.64703
LEPRE1		-4.0658		-3.49117	-4.41562
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DPP9		-4.628		-3.3206	-4.09365
PPIH		-4.06963		-4.36541	-3.63771
COASY		-4.06602		-3.46803	-4.55141
MARCKS		-4.3254		-3.57386	-4.22823
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SUCLG1		-4.25366		-3.38215	-4.55791
NDUFA2				-5.37595	-6.82106
SAR1B		-4.30769		-3.1988	-4.73889
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MPP6		-4.22852		-3.31354	-4.81562
REXO2		-4.14807		-3.63487	-4.6216

SEC31A			-7.1201		-5.3122
TSPAN6	-3.15139	-3.43666	-2.16084		-3.84898
MINOS1	-2.92028	-3.00144	-1.87482	-1.84714	-2.97948
UTS2		-4.74526		-3.31108	-4.57745
TOMM40	-3.06733	-2.23684	-4.87165		-2.46254
NDRG3		-6.44112	-6.21141		
RPS23		-5.02267		-4.46723	-3.22179
TIMM9	-2.7743	-3.23198	-1.96532	-1.54536	-3.19724
ATP5D		-4.71738		-3.42953	-4.59229
RCN1		-5.86473	-5.18567	-1.7513	
SRPK3		-4.3332		-3.73565	-4.73814
POR		-4.53556		-3.72029	-4.60571
LDHC		-4.32451		-3.8309	-4.71956
SEC63		-4.76043		-3.75306	-4.40971
BRD2	-2.34625	-2.28683	-3.44393	-1.57751	-3.31565
EIF3G		-4.03649		-4.68852	-4.31772
GSTM2		-4.6047		-3.66107	-4.8046
GSTM5		-4.6047		-3.66107	-4.8046
PCBP2		-4.24451		-4.34613	-4.57209
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FAM136A	-2.05619	-4.64206	-1.89956		-4.64167
STIM2		-4.89143		-3.65666	-4.77094
GIPC1		-4.5397		-3.82047	-4.97017
DHCR7		-4.39681		-4.15341	-4.79363
LAMP1		-4.47683		-4.07177	-4.80425
AKAP12		-4.41787		-4.0751	-4.91019
DEK		-5.78112	-1.94338	-1.8031	-3.89237
GFAP	-2.64665	-4.53738	-3.99645	-2.26319	
C11orf98		-4.16106		-4.73401	-4.58209
CUL3		-4.38649		-4.38975	-4.7468
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GNAI2		-5.05678		-3.81338	-4.69627
MECR		-4.9728		-3.75859	-4.87063
OXCT1		-4.63161		-4.13724	-4.86413
SEC61A1		-4.66178		-4.28688	-4.71282
SEC61A2		-4.72953		-4.28688	-4.76385
CAP1		-5.38433		-5.23839	-3.20845
UGDH		-5.01554		-3.7477	-5.08656
SDAD1		-4.25271		-5.14734	-4.45345
PTBP2				-7.02535	-6.8366
IDH2		-4.95027		-4.18505	-4.72868
TOMM22	-2.28308	-4.30146	-2.08185		-5.20308
ATXN2		-4.52649		-4.69733	-4.66636
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PNPT1		-5.0439		-4.17426	-4.70661

CHMP1A		-4.42856		-4.70928	-4.82755
SNRPD2		-4.05667		-5.22175	-4.72206
MMS19		-4.49643		-4.49933	-5.03348
CDC42		-4.92876		-4.28839	-4.86137
HARS2		-5.03531		-4.04506	-5.09817
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ARFIP2		-5.10755		-4.2102	-4.95206
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RDX		-4.14441	-1.64209	-4.38709	-4.40888
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DDX3Y		-5.08661		-4.54167	-4.99445
HCFC2		-5.26044		-4.33127	-5.08168
PTGES3		-5.30283		-4.39515	-5.07585
REEP5		-5.83261		-5.19482	-3.75053
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MATR3		-5.32108		-4.42417	-5.07043
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PSMB7		-4.96915		-4.41089	-5.45651
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GNB4		-5.3995		-4.58742	-5.11406
RAD23A		-5.33987		-4.46506	-5.29901
40057		-5.46499		-4.50708	-5.14838
IMPDH1		-5.45426		-4.47254	-5.21175
EXOSC4		-5.42979		-4.48563	-5.23036
ATP1A1	-2.524	-5.66697	-1.60389		-5.41985

CAPZA2		-5.48623		-4.60675	-5.21904
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NPM1		-5.08287	-2.22782	-3.04395	-5.05716
ACTR3B		-5.7271		-4.39891	-5.32881
COMT		-5.71595		-4.57047	-5.18447
HDGFRP2	-5.26517	-5.70614		-4.50539	
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CKMT1A	-2.3101	-5.85969	-1.84		-5.50847
CKMT1B	-2.3101	-5.85969	-1.84		-5.50847
ADRM1		-5.44569		-4.69544	-5.391
RBBP4		-5.48494		-4.79432	-5.27444
RBBP7		-5.48494		-4.79432	-5.27444
CKMT2	-2.3101	-5.85969	-1.89499		-5.50847
SACM1L		-5.55736		-4.73477	-5.32369
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DDX46		-5.62514		-4.77444	-5.27114
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YTHDF1		-5.5768		-4.77046	-5.37453
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ARF5		-5.65143		-4.79241	-5.38654
PSMA1		-5.546		-4.84956	-5.43485
C14orf166		-5.6902		-4.79525	-5.35687
TRAP1		-5.62501		-4.88721	-5.33105
USP47		-5.63435		-4.90651	-5.32244
EIF4A3		-5.60138		-4.8479	-5.51706
ME3		-5.64892		-4.92704	-5.39613
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SNRPF		-5.73926		-5.14189	-5.33137
OPA1		-5.7994		-5.16309	-5.28601
TCEA2		-5.79077		-5.05073	-5.49063
PRPF40A	-1.68373	-5.18964		-4.61975	-5.10291
CD63	-3.44268	-3.69317	-3.23669	-2.8397	-3.47028
SF1		-5.22209	-2.19975	-4.36768	-5.07027
NOMO1		-5.51891	-1.09195	-5.13443	-5.27709
PRRC2C	-1.56179			-7.61845	-8.41453
PHB2	-1.86453	-5.74685		-4.81701	-5.25121
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RUFY1		-4.60552	-1.68794	-4.88068	-6.5686
RUFY3		-4.60552	-1.68794	-4.88068	-6.5686
PLRG1		-5.75876	-1.86596	-4.91366	-5.24453
JAGN1	-1.59523	-5.78354		-4.99844	-5.42537
ATPIF1	-2.46938	-5.39197		-4.93296	-5.06111
TSC2		-4.64575	-3.29363	-4.72018	-5.23535
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PNN	-2.17213	-5.66261		-4.92362	-5.37639
GLS	-3.29643	-2.92437	-3.29424	-4.94899	-3.70304
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YY2	-2.58352	-5.71604		-4.96666	-5.42228
NME1		-5.17076	-5.52859	-3.06628	-5.12523
YY1	-2.96481	-5.7204		-5.05237	-5.42446
CNNM3		-5.70257	-3.45691	-4.35879	-5.87534
SETBP1	-4.63812	-4.44592	-2.86359	-2.62184	-5.06662
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EBP		-9.37221		-8.51453	-2.17
TLE4			-6.4333	-6.94597	-7.27674
SMARCE1		-4.75258	-4.76505	-5.00203	-6.13952
SLC25A24	-9.53643	-5.10331		-4.55124	-2.16841
NDUFS6	-2.35716	-6.13723	-2.40031	-6.16306	-4.64045
TJP1	-9.28902	-1.67118	-1.93635	-5.88508	-4.65555
NUMA1		-6.06183	-3.38665	-6.61923	-7.56077
CBX1	-9.43251	-4.51135	-3.71741	-3.66025	-2.40244
THOC5	-4.52908	-4.64561	-5.09969	-4.86277	-4.91247

