

Supplementary Online Content

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Participant Demographics

Pair	Group	HU	Sex	Race	Age	PMI	pH	MOD	COD	Storage Time (Mo)	Diag	Hand
1	C	1326	M	W	58	16.4	6.7	Natural	ASCVD	119.8	None	R
2	C	1247	F	W	58	22.7	6.4	Natural	ASCVD	133.9666667	None	R
3	C	1086	M	W	51	24.2	6.8	Natural	ASCVD	153.8333333	None	R
4	C	10005	M	W	42	23.5	6.7	Accidental	Trauma	140.6666667	None	R
5	C	1201	F	W	52	16.4	6.2	Natural	ASCVD	141.1	None	R
6	C	1255	M	B	37	22	5.9	Natural	Pulmonary embolism	132.4	None	R
7	C	1480	M	W	62	20.1	6.7	Natural	ASCVD	92.93333333	Reading D/O	R
8	C	1119	M	W	57	20.2	6.8	Natural	ASCVD	149.8666667	None	R
9	C	1317	M	W	56	22.9	6.5	Natural	ASCVD	122.3	None	L
10	C	1307	M	B	32	4.8	6.7	Natural	ASCVD	123.2333333	None	R
11	C	1067	M	W	49	6	6.6	Natural	ASCVD	156.7333333	None	R
12	C	1196	F	W	36	14.5	6.4	Accidental	Asphyxiation	141.7333333	None	R
13	C	1099	F	W	24	9.1	6.5	Natural	Cardiomyopathy	152.2333333	None	R
14	C	806	M	W	57	24	6.9	Natural	Pulmonary embolism	204.2333333	None	R
15	C	739	M	W	40	15.8	6.9	Natural	ASCVD	218.0333333	None	R
16	C	822	M	B	28	25.3	7	Natural	ASCVD	201.6666667	None	L
17	C	727	M	B	19	7	7.2	Accidental	Trauma	218.9333333	None	R
18	C	659	M	O	46	22.2	6.9	Accidental	Peritonitis	229.4	None	R
19	C	852	M	W	54	8	6.8	Natural	Cardiac Tamponade	193.9333333	None	R
20	C	685	M	W	56	14.5	6.6	Natural	Hypoplastic coronary artery	225.5	None	R
21	C	686	F	W	52	22.6	7	Natural	ASCVD	225.2	None	R
22	C	1092	F	B	40	16.6	6.8	Natural	Mitral valve prolapse	153.2333333	None	R
23	C	1488	M	B	39	21.5	6.4	Natural	Pulmonary embolism	92	None	R
24	C	1047	M	W	43	13.8	6.6	Natural	ASCVD	159.8666667	None	R
25	C	700	M	W	42	26.1	7	Natural	ASCVD	223.1333333	None	R
26	C	818	F	W	67	24	7.1	Accidental	Anaphylactic reaction	202.8333333	None	R
27	C	567	F	W	46	15	6.7	Natural	Mitral valve prolapse	242.6666667	None	R
28	C	871	M	W	28	16.5	7.1	Accidental	Trauma	190.9	None	R
29	C	988	M	W	82	22.5	6.2	Accidental	Trauma	169.1666667	None	R
30	C	1284	M	W	55	6.4	6.8	Natural	ASCVD	128.3333333	None	R
31	C	1555	M	W	17	15.1	6.9	Accidental	Trauma	77.53333333	None	R

32	C	1268	M	B	49	19.9	7.1	Natural	ASCVD	120.5333333	None	R
33	C	1466	F	B	64	20	6.7	Accidental	Trauma	95.03333333	None	R
34	C	1386	M	W	46	21.2	6.7	Natural	ASCVD	109.6666667	None	R
35	C	1026	M	W	59	19.8	6.3	Natural	ASCVD	162.9	None	R
36	C	1524	M	W	66	9.4	6.4	Natural	Small intestinal infarction	82.2	None	R
37	C	1270	F	W	73	19.7	6.6	Accidental	Trauma	130.4	None	R
38	C	1372	M	W	37	20.5	6.6	Accidental	Asphyxiation	113.4333333	None	U
39	C	1543	F	W	45	17.9	6.8	Natural	Subarachnoid hemorrhage	79.2	None	R
40	C	1583	M	W	58	19.1	6.7	Accidental	Trauma	72.33333333	None	R
41	C	1384	M	W	67	21.9	6.6	Natural	ASCVD	110.8333333	None	R
42	C	630	M	W	64	21.2	7	Natural	ASCVD	232.6	None	R
43	C	546	F	W	37	23.5	6.7	Natural	ASCVD	246.7	unconfirmed	U
44	C	681	M	W	51	11.6	7.2	Natural	Hypertrophic cardiomyopathy	226.1	None	R
45	C	1374	M	W	43	21.7	6.6	Natural	ASCVD	112.9666667	None	R
46	C	1159	M	W	51	16.7	6.5	Natural	ASCVD	146	None	R
47	C	857	M	W	48	16.6	6.7	Natural	ASCVD	192.7333333	None	L
48	C	1391	F	W	51	7.8	6.6	Natural	ASCVD	108.9666667	None	L
Pair	Group	HU	Sex	Race	Age	PMI	pH	MOD	COD	Storage Time (Mo)	Diag	Hand
1	Sz	1453	M	W	62	11.1	6.4	Accidental	Trauma	97.33333333	Paranoid schizophrenia; ADR	R
2	Sz	1240	F	B	50	22.9	6.3	Natural	ASCVD	134.7	Undifferentiated schizophrenia; ADR	R
3	Sz	10025	M	B	52	27.1	6.7	Natural	ASCVD	132.5666667	Disorganized schizophrenia; OAR	R
4	Sz	1256	M	W	34	27.4	6.4	Suicide	Hanging	132.4	Undifferentiated schizophrenia	R
5	Sz	1189	F	W	47	14.4	6.4	Suicide	Combined drug overdose	142.6	Schizoaffective disorder; AAR	R
6	Sz	10020	M	W	38	28.8	6.6	Suicide	Salicylate overdose	134.0333333	Paranoid schizophrenia; AAC; OAC	R
7	Sz	1263	M	W	62	22.7	7.1	Accidental	Asphyxiation	131.5666667	Undifferentiated schizophrenia; ADR	R
8	Sz	1173	M	W	62	22.9	6.4	Natural	ASCVD	144.7	Disorganized schizophrenia; ADR	R
9	Sz	1361	M	W	63	23.2	6.4	Natural	Cardiomyopathy	115	Schizoaffective disorder; ODC	U
10	Sz	10024	M	B	37	6	6.1	Natural	ASCVD	132.7666667	Paranoid schizophrenia	L
11	Sz	1296	M	W	48	7.8	6.5	Natural	Pneumonia	126	Undifferentiated schizophrenia	L
12	Sz	1211	F	W	41	20.1	6.3	Natural	Sudden unexpected death	140.1333333	Schizoaffective disorder	L
13	Sz	10023	F	B	25	20.1	6.7	Suicide	Drowning	133.2333333	Disorganized schizophrenia	R
14	Sz	665	M	B	59	28.1	6.9	Natural	Intestinal hemorrhage	228.7333333	Paranoid schizophrenia; ADC	R

15	Sz	1088	M	W	49	21.5	6.5	Accidental	Combined drug overdose	153.6333333	Undifferentiated schizophrenia; ADC; OAC	R
16	Sz	787	M	B	27	19.2	6.7	Suicide	Gunshot	207.9666667	Schizoaffective disorder; ODC	L
17	Sz	829	M	W	25	5	6.8	Suicide	Salicylate overdose	199.5666667	Schizoaffective disorder; ADC; OAR	U
18	Sz	930	M	W	47	15.3	6.2	Natural	ASCVD	179.0333333	Disorganized schizophrenia; ADR; OAR	R
19	Sz	722	M	B	45	9.1	6.7	Natural	Upper GI bleed	219.3666667	Undifferentiated schizophrenia; ODR; OAR	R
20	Sz	1105	M	W	53	7.9	6.2	Natural	ASCVD	151.7	Schizoaffective disorder	R
21	Sz	802	F	W	63	29	6.4	Natural	Right ventricular dysplasia	204.9	Schizoaffective disorder; ADC; ODR	M
22	Sz	1010	F	B	44	18.7	6.2	Natural	Sudden unexpected death	166.0666667	Undifferentiated schizophrenia	L
23	Sz	1222	M	W	32	30.8	6.4	Suicide	Combined drug overdose	137.9333333	Undifferentiated schizophrenia; AAC	R
24	Sz	933	M	W	44	8.3	5.9	Natural	Myocarditis	178.5	Disorganized schizophrenia	U
25	Sz	625	M	B	49	23.5	7.3	Natural	ASCVD	233.2	Disorganized schizophrenia; AAC	R
26	Sz	917	F	W	71	23.8	6.8	Natural	ASCVD	182.5	Undifferentiated schizophrenia	U
27	Sz	537	F	W	37	14.5	6.7	Suicide	Hanging	247.8333333	Schizoaffective disorder	U
28	Sz	878	M	W	33	10.8	6.7	Natural	Myocardial fibrosis	189.9	Disorganized schizophrenia; ADC	R
29	Sz	621	M	W83	83	16	7.3	Accidental	Asphyxiation	233.6333333	Chronic undifferentiated schizophrenia	U
30	Sz	1188	M	W	58	7.7	6.2	Natural	ASCVD	142.8333333	Undifferentiated schizophrenia; AAR; OAR	R
31	Sz	1649	M	B	17	21.4	6.9	Suicide	Hanging	62.6	Undifferentiated schizophrenia	L
32	Sz	1230	M	W	50	16.9	6.6	Suicide	Doxepin overdose	136.3666667	Undifferentiated schizophrenia	L
33	Sz	1341	F	W	44	24.5	6.6	Accidental	Trauma	116.9333333	Schizoaffective disorder; ODC	R
34	Sz	1420	M	W	47	23.4	6.7	Suicide	Jumping	103.1	Schizoaffective disorder; AAR; OAR	R
35	Sz	1454	M	W	59	24.1	6.1	Accidental	Trauma	96.4666667	Paranoid schizophrenia; AAR; ODC	U
36	Sz	1542	M	W	65	17.4	6.7	Undetermined	Combined drug overdose	79.3	Paranoid schizophrenia	U
37	Sz	1579	F	W	69	16.1	6.7	Natural	ASCVD	72.9	Schizoaffective disorder; ADR; ODC	R
38	Sz	1581	M	W	32	18.4	6.8	Natural	ASCVD	72.5333333	Paranoid schizophrenia; ODC; OAC	R
39	Sz	10026	F	W	46	23.8	6.6	Suicide	Thermal injuries	132.3666667	Undifferentiated schizophrenia	R
40	Sz	1686	M	B	56	14.1	6.2	Natural	ASCVD	55.3666667	Paranoid schizophrenia; AAR	R
41	Sz	1712	M	W	63	15.1	6.2	Natural	ASCVD	48.8666667	Schizoaffective disorder; ODC, ADR	R
42	Sz	566	M	W	63	18.3	6.8	Natural	ASCVD	243.1666667	Chronic undifferentiated schizophrenia; AAR	R
43	Sz	587	F	B	38	17.8	7	Natural	Myocardial hypertrophy	239.4333333	Chronic undifferentiated schizophrenia; AAR	R
44	Sz	640	M	W	49	5.2	6.9	Natural	Pulmonary embolism	231.2333333	Chronic paranoid schizophrenia	U
45	Sz	904	M	W	33	28	6.2	Natural	Broncho-pneumonia	185.7333333	Schizoaffective disorder	R
46	Sz	1314	M	W	50	11	6.2	Natural	ASCVD	122.4666667	Undifferentiated schizophrenia	R
47	Sz	1455	M	W	42	8.2	6.2	Natural	Peritonitis	96.4666667	Paranoid schizophrenia; AAR	L

48	Sz	1506	F	W	47	14.1	6.6	Accidental	Combined drug overdose	88	Schizoaffective disorder; ADC	R
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eTable 2. Synaptosome Enrichment

Uniprot ID	Uniprot Accession	Average synaptosome/homogenate value for controls
1433E	P62258	0.48
1433G	P61981	0.63
1433T	P27348	0.38
1433Z	P63104	0.43
2A5D	Q14738	1.35
2AAA	P30153	0.64
2ABA	P63151	0.84
3HIDH	P31937	0.59
4F2	P08195	2.70
AAK1	Q2M2I8	1.63
AAKG1	P54619	0.30
AAKG2	Q9UGJ0	1.29
AATC	P17174	0.18
AATM	P00505	0.60
ABR	Q12979	1.53
ACLY	P53396	0.77
ACON	Q99798	0.82
ACTN4	O43707	0.69
ACTZ	P61163	0.62
ADDA	P35611	0.81
ADDB	P35612	0.82
ADHX	P11766	0.26
ADT1	P12235	2.32
ADT3	P12236	1.56
AINX	Q16352	0.80
AIP	O00170	0.24
AK1C1	Q04828	0.55
AKA12	Q02952	2.11
AL3A1	P30838	1.20
ALDH2	P05091	0.36
ALDOA	P04075	0.44
ALDOC	P09972	0.26
ALDR	P15121	0.23
ANK1	P16157	1.65
ANK2	Q01484	1.57
ANK3	Q12955	1.77
ANXA3	P12429	1.76
AOFB	P27338	2.07
AP180	O60641	0.73
AP1B1	Q10567	1.11
AP2A2	O94973	1.09

AP2B1	P63010	1.12
AP2M1	Q96CW1	1.31
AP3B2	Q13367	1.06
ARC1A	Q92747	0.90
ARF1	P84077	0.47
ARP2	P61160	0.90
ARP3	P61158	0.67
ARPC2	O15144	0.82
ARPC3	O15145	0.90
AT1A1	P05023	2.32
AT1A3	P13637	2.22
AT1B1	P05026	1.98
AT2B1	P20020	2.31
ATLA1	Q8WXF7	1.66
ATPA	P25705	1.98
ATPB	P06576	1.10
ATPO	P48047	2.09
B4DV12	B4DV12	0.67
B7Z1I4	B7Z1I4	2.33
BAIP2	Q9UQB8	1.48
BDH	Q02338	1.44
BSN	Q9UPA5	1.10
C1TC	P11586	0.94
C2C2L	O14523	1.87
CACB3	P54284	1.91
CACB4	O00305	2.03
CAD10	Q9Y6N8	1.19
CALR	P27797	0.62
CAND1	Q86VP6	0.54
CAP1	Q01518	1.00
CAP2	P40123	1.67
CAPS1	Q9ULU8	0.90
CAPZB	P47756	0.97
CBR1	P16152	0.34
CDC42	P60953	0.52
CDK5	Q00535	1.31
CH60	P10809	1.10
CISY	O75390	0.75
CKAP4	Q07065	1.90
CKAP5	Q14008	1.36
CLAP2	O75122	1.43
CLH1	Q00610	0.41
CMC1	O75746	1.93
CN37	P09543	0.93

CNDP2	Q96KP4	0.23
CNTN1	Q12860	1.93
CNTN2	Q02246	1.35
CNTP1	P78357	1.86
CO3	P01024	1.99
COF1	P23528	0.46
COPG1	Q9Y678	0.98
COR1A	P31146	0.97
COR1C	Q9ULV4	1.06
CPNE6	O95741	1.80
CPNS1	P04632	1.11
CPT1A	P50416	1.16
CTNB1	P35222	1.77
CUL3	Q13618	0.71
CXA1	P17302	3.16
CYFP1	Q7L576	1.15
DAAM2	Q86T65	0.76
DCE2	Q05329	1.00
DCLK1	O15075	1.23
DCTN1	Q14203	0.89
DHE3	P00367	0.56
DIRA2	Q96HU8	1.65
DLG2	Q15700	0.81
DLG4	P78352	1.50
DLGP2	Q9P1A6	0.63
DLGP4	Q9Y2H0	0.70
DMXL2	Q8TDJ6	1.51
DPYL1	Q14194	0.26
DPYL2	Q16555	0.25
DYHC1	Q14204	1.18
DYN1	Q05193	1.48
DYN2	P50570	1.51
E41L1	Q9H4G0	1.31
E41L3	Q9Y2J2	1.24
EAA1	P43003	2.27
EAA2	P43004	2.78
EF1A1	P68104	1.51
EFHD2	Q96C19	0.43
EGFR	P00533	1.32
ENOA	P06733	0.13
ENOG	P09104	0.14
EPN1	Q9Y6I3	0.56
F8VWT9	F8VWT9	0.75
FAK2	Q14289	1.23

FARP1	Q9Y4F1	1.81
FARP2	O94887	0.56
FLOT1	O75955	2.16
FLOT2	Q14254	2.51
FSCN1	Q16658	0.24
G3P	P04406	1.11
G6PI	P06744	0.32
GBB1	P62873	1.61
GBRA1	P14867	2.27
GBRB1	P18505	2.37
GBRB3	P28472	2.18
GBRG2	P18507	2.20
GCYB1	Q02153	0.97
GDAP1	Q8TB36	2.16
GDIA	P31150	0.23
GDS1	P52306	0.63
GEPH	Q9NQX3	0.90
GFAP	P14136	0.28
GHC1	Q9H936	2.08
GLNA	P15104	0.33
GLPK	P32189	1.96
GLSK	O94925	1.10
GNAI1	P63096	1.63
GNAO	P09471	1.86
GNAQ	P50148	1.67
GNAS2	P63092	1.74
GNAZ	P19086	1.82
GPDM	P43304	1.39
GPM6A	P51674	2.17
GRIA1	P42261	2.39
GRIA2	P42262	2.34
GRIA3	P42263	2.44
GRM2	Q14416	2.54
GRM3	Q14832	2.26
GRM5	P41594	0.74
GRP75	P38646	0.90
GRP78	P11021	0.66
GSH1	P48506	0.45
GSTM3	P21266	0.61
HOME1	Q86YM7	1.40
HOME2	Q9NSB8	0.25
HPCA	P84074	0.86
HPCL1	P37235	1.16
HS12A	O43301	1.70

HS71A	P0DMV8	0.61
HS90A	P07900	0.53
HS90B	P08238	0.62
HSP74	P34932	0.44
HSP7C	P11142	0.46
HXK1	P19367	1.92
IMB1	Q14974	0.75
IP3KA	P23677	1.64
ITPR1	Q14643	1.67
KAD1	P00568	0.51
KAD4	P27144	1.56
KALRN	O60229	1.04
KAP2	P13861	1.00
KAP3	P31323	1.09
KCC2A	Q9UQM7	1.34
KCC2B	Q13554	1.38
KCC2D	Q13557	1.25
KCNA1	Q09470	1.84
KCRB	P12277	0.63
KPCA	P17252	1.70
KPCE	Q02156	1.36
KPCG	P05129	1.35
KPYM	P14618	0.23
L1CAM	P32004	2.03
LDHA	P00338	0.34
M2OM	Q02978	2.00
MAP1A	P78559	1.02
MAP1B	P46821	1.10
MARE2	Q15555	1.80
MARK2	Q7KZI7	0.83
MBP	P02686	0.89
MDHC	P40925	0.14
MK01	P28482	0.94
MK03	P27361	0.85
MPCP	Q00325	2.08
MTAP2	P11137	0.88
MYPR	P60201	0.66
NAC1	P32418	2.13
NBEA	Q8NFP9	1.31
NCAM1	P13591	2.16
NCAM2	O15394	1.54
NCAN	O14594	1.44
NCDN	Q9UBB6	0.62
NCPR	P16435	1.60

NDUAA	O95299	3.41
NDUV1	P49821	1.68
NEGR1	Q7Z3B1	2.01
NFASC	O94856	1.65
NFH	P12036	0.51
NFL	P07196	0.59
NLGN2	Q8NFZ4	1.52
NMDE2	Q13224	0.86
NMDZ1	Q05586	2.26
NNTM	Q13423	1.98
NOS1	P29475	1.26
NRX1A	Q9ULB1	1.85
NRX3A	Q9Y4C0	2.07
NSF	P46459	2.57
NTRK2	Q16620	0.53
ODPB	P11177	1.15
OGDHL	Q9ULD0	1.46
OPA1	O60313	1.84
OTUB1	Q96FW1	0.62
PAK3	O75914	0.51
PHB2	Q99623	2.18
PIPNB	P48739	0.85
PP1A	P62136	0.91
PP1B	P62140	0.90
PP2AA	P67775	0.64
PP2BA	Q08209	0.40
PPIA	P62937	0.32
PRDX1	Q06830	0.50
PRDX2	P32119	1.55
PRDX5	P30044	0.30
PRS6A	P17980	1.30
PRS7	P35998	0.82
PSD11	O00231	1.06
PSD12	O00232	1.02
PSMD1	Q99460	0.62
PSMD2	Q13200	1.10
PSMD7	P51665	0.88
PTPRA	P18433	1.12
PTPRS	Q13332	1.98
PTPRZ	P23471	0.84
PYC	P11498	1.01
PYGB	P11216	0.85
Q6FHZ0	Q6FHZ0	0.83
Q6NVC0	Q6NVC0	1.79

Q6PJ43	Q6PJ43	0.70
QCR2	P22695	1.88
RAB14	P61106	0.86
RAB1A	P62820	0.97
RAB2A	P61019	0.86
RAB3A	P20336	0.66
RAC1	P63000	0.92
RALA	P11233	1.02
RAN	P62826	0.36
RAP1A	Q5EBH1	0.90
RB39A	Q14964	0.87
RGS7	P49802	1.64
RHG01	Q07960	1.38
RHOA	P61586	0.57
RHOB	P62745	1.27
ROA2	P22626	0.37
RP3A	Q9Y2J0	1.63
RTN1	Q16799	1.64
RTN4	Q9NQC3	0.36
RUFY3	Q7L099	1.53
S12A5	Q9H2X9	1.58
S4A4	Q9Y6R1	2.60
SAR1B	Q9Y6B6	1.37
SC6A1	P30531	2.20
SCOT1	P55809	0.74
SDHB	P21912	1.70
SEPT2	Q15019	0.55
SEPT3	Q9UH03	1.28
SEPT4	O43236	1.32
SEPT5	Q99719	1.43
SEPT7	Q16181	0.97
SEPT8	Q92599	1.06
SEPT9	Q9UHD8	1.13
SERA	O43175	0.76
SH3G2	Q99962	0.48
SHLB2	Q9NR46	0.89
SNAA	P54920	0.88
SNAB	Q9H115	0.88
SNP25	P60880	1.41
SPTA1	P02549	1.99
SPTB1	P11277	1.28
SRC	P12931	1.75
SRCN1	Q9C0H9	1.43
STIP1	P31948	0.49

STX1A	Q16623	2.42
STX1B	P61266	2.25
STXB1	P61764	1.05
SUCB1	Q9P2R7	1.18
SV2A	Q7L0J3	1.92
SYN1	P17600	2.27
SYN2	Q92777	1.62
SYNJ1	O43426	0.83
SYT1	P21579	2.30
SYT2	Q8N9I0	2.20
SYT7	O43581	2.07
TAU	P10636	1.21
TBA1A	Q71U36	1.06
TBB2A	Q13885	0.92
TBB5	P07437	1.07
TEBP	Q15185	1.20
TFR1	P02786	1.67
TPIS	P60174	0.13
UBA1	P22314	0.50
UBE2N	P61088	0.60
UBP5	P45974	1.37
UCL1	P09936	0.21
VAPA	Q9P0L0	1.29
VAPB	O95292	1.43
VAT1L	Q9HCJ6	0.53
VATA	P38606	1.62
VATB2	P21281	1.51
VATC1	P21283	1.90
VATD	Q9Y5K8	1.68
VATE1	P36543	2.05
VATH	Q9UI12	1.59
VDAC1	P21796	2.05
VDAC2	P45880	2.11
VDAC3	Q9Y277	2.44
VGLU1	Q9P2U7	2.47
VGLU2	Q9P2U8	1.80
VIME	P08670	0.31
VINC	P18206	0.47
VISL1	P62760	0.72
VP26B	Q4G0F5	0.77
VPP1	Q93050	2.40
VPS35	Q96QK1	0.70
XPOT	O43592	1.72

To assess the enrichment (or de-enrichment) of each protein in the synaptosome preparations, the synaptosome level of each protein was divided by its homogenate level, for each subject in the control group. This table reports the averages of those enrichment values for each protein.

eTable 3. Mouse Homogenate PMI

Name	pvalue	qvalue	Dropped From Human Analysis	0	0	0	0	6	6	6	6	12	12	12	12	18	18	18	18	24	24	24	24	30	30	30	30
TAU	1.18E-15	4.86E-13		0.49	0.75	0.75	0.52	0.57	0.62	0.87	0.43	0.13	0.37	0.05	0.21	0.08	0.17	0.17	-0.06	-1.94	-2.07	-1.89	-1.76	-2.69	-3.23	-2.61	-2.44
ADDA	4.86E-14	9.98E-12		1.32	1.37	1.24	1.52	1.19	1.08	1.42	1.48	0.77	0.28	0.78	0.30	0.44	0.77	0.92	0.50	-1.95	-1.71	-1.77	-1.57	-2.70	-3.33	-2.19	-2.38
NOS1	1.01E-11	1.39E-09		0.82	1.22	-0.31	1.05	0.77	-0.12	0.57	0.88	0.00	-0.87	-1.39	-0.35	-0.97	0.24	-0.24	0.08	-4.03	-3.28	-3.48	-3.35	-5.02	-4.97	-4.44	-4.64
MTAP2	4.92E-11	4.40E-09		0.44	0.66	0.37	0.49	0.31	0.51	0.53	0.35	0.29	0.42	0.18	0.11	-0.03	0.25	0.04	0.15	-0.19	-0.42	-0.47	-0.73	-1.13	-0.90	-1.09	-1.26
TBB2A	5.35E-11	4.40E-09		0.03	0.15	0.10	0.22	0.06	0.03	0.28	0.10	0.00	0.10	0.06	-0.23	-0.14	0.06	-0.16	-0.05	-0.54	-0.39	-0.45	-0.55	-0.96	-0.85	-0.87	-0.88
CO2	2.26E-10	1.47E-08		0.13	0.84	0.53	0.62	0.45	0.18	0.33	-0.14	-0.14	-0.21	-0.11	-0.12	-0.44	0.15	0.00	-0.18	-1.98	-1.82	-1.85	-2.35	-3.75	-2.61	-2.13	-2.57
PP2BA	2.50E-10	1.47E-08		0.61	0.66	0.69	0.89	0.46	0.77	0.52	0.57	0.57	0.22	0.30	0.55	0.57	0.41	0.31	0.27	-0.62	-0.46	-0.59	-0.26	-0.57	-1.25	-1.03	-1.14
B4DV12	4.95E-09	2.26E-07	x	1.26	1.55	1.83	1.75	-1.33	-1.22	-0.18	-1.23	-1.17	-2.23	-2.37	-2.02	-1.97	-0.80	-2.29	-2.03	-2.41	-1.81	-3.16	-2.99	-2.92	-2.79	-2.67	-2.22
MAP1A	4.60E-09	2.26E-07		0.04	0.16	0.18	0.51	0.26	0.49	0.62	0.38	0.26	-0.11	-0.31	-0.16	0.01	0.30	0.03	-0.01	-0.86	-0.76	-1.10	-0.81	-1.56	-1.02	-0.88	-1.18
E41L3	8.71E-09	3.58E-07	x	0.66	0.67	0.70	1.24	-0.04	0.39	0.47	0.67	0.43	0.80	0.28	-0.01	0.35	-0.07	1.05	-0.47	-1.53	-1.32	-1.53	-1.64	-2.62	-2.92	-1.64	-2.07
GFAP	2.25E-08	8.42E-07	x	-1.11	-1.04	-2.03	NA	0.77	-1.01	-0.06	0.24	-0.71	-0.06	-0.84	-0.39	NA	-1.35	-0.02	NA	-4.34	-3.45	-3.98	-3.34	-5.56	-5.28	-4.22	-4.62
MAP1B	2.92E-07	9.22E-06		0.35	0.10	0.16	0.00	0.17	-0.15	0.32	0.60	0.11	0.01	0.00	-0.56	-0.16	-0.53	0.44	0.12	-1.23	-1.06	-1.45	-0.63	-1.79	-1.44	-1.64	-1.24
SRCN1	2.76E-07	9.22E-06		0.42	0.73	1.53	1.01	0.54	-0.80	0.78	0.84	-0.04	0.38	0.93	-0.04	0.13	0.27	-1.49	-0.21	-2.53	-1.72	-2.34	-1.63	-2.12	-3.22	-2.38	-2.62
EAA2	6.82E-07	2.00E-05		1.75	0.95	1.47	1.02	1.25	1.09	0.20	1.52	1.43	1.31	1.61	1.23	1.20	0.50	1.72	0.95	0.01	-0.37	-0.02	0.07	-0.75	-0.98	-0.37	-0.79
MBP	2.42E-06	6.64E-05		1.84	1.81	1.87	1.99	1.73	1.80	1.94	2.05	1.62	1.64	1.58	1.30	2.19	1.65	2.38	1.97	0.62	0.84	0.81	0.85	-0.27	0.60	0.73	1.21
EGFR	2.07E-05	5.31E-04		-0.07	0.02	-0.14	0.11	-0.34	-0.09	0.11	-0.25	-0.22	-0.08	-0.30	-0.41	-0.11	-0.01	-0.26	-0.22	-0.70	-0.53	-0.65	-0.42	-0.77	-0.55	-0.73	-0.48
TBB5	2.64E-05	6.39E-04		0.50	0.58	0.57	-0.16	0.48	0.46	-0.16	0.45	-0.34	0.41	0.14	0.28	0.24	-0.43	0.27	0.31	-0.50	-0.95	-0.35	-0.43	-0.91	-0.89	-0.84	-1.24
EF1A1	6.38E-05	1.46E-03		-0.76	-0.71	-0.78	-0.63	-0.78	-0.77	-0.53	-0.74	-0.92	-0.80	-0.68	-1.12	-0.90	-0.65	-0.86	-0.86	-1.07	-0.97	-1.17	-1.07	-1.17	-1.08	-1.19	-1.13
SH3G2	7.88E-05	1.70E-03		0.59	0.63	0.85	1.05	0.71	0.61	0.70	0.60	1.10	0.59	0.63	0.85	0.93	1.01	0.30	0.57	0.02	0.57	0.41	0.36	-0.10	-0.04	-0.28	0.01
NFH	1.95E-04	4.00E-03		0.89	0.80	1.05	1.19	1.03	0.75	1.04	1.05	0.68	0.80	0.73	0.14	1.11	0.87	0.47	0.88	-0.11	0.11	-0.24	-0.82	-1.51	-0.15	0.12	0.14
BSN	2.16E-04	4.23E-03		0.50	1.01	0.84	0.83	0.92	1.05	0.98	0.73	0.41	0.79	0.70	0.54	0.53	0.12	0.52	0.39	-0.13	0.33	0.32	-0.13	-0.36	0.59	-0.27	-0.04
GPM6A	5.29E-04	9.88E-03		0.08	0.20	0.27	0.55	0.43	0.52	0.45	0.44	0.43	0.47	0.74	0.52	0.67	0.72	0.37	0.60	0.62	0.57	0.81	0.68	0.93	0.79	0.75	0.73
SHAN3	8.84E-04	1.58E-02		1.37	1.86	3.10	1.23	1.17	2.28	1.33	2.51	-0.34	2.05	1.42	-0.35	0.70	0.63	2.06	-1.20	-0.80	-1.04	-0.84	-0.08	-0.12	-0.74	-2.25	-1.83
TBA1A	1.14E-03	1.96E-02		-0.56	-1.02	-0.92	-0.58	-0.38	-0.28	-0.29	-0.52	-0.07	0.02	-0.48	-0.32	0.11	-0.02	-0.06	-0.07	-0.60	-0.10	-0.12	0.09	-0.05	-0.18	-0.46	-0.20
MDHC	1.26E-03	2.07E-02		-0.38	-0.69	-0.30	-0.68	-0.47	-0.33	-0.65	-0.47	-0.84	-0.77	-0.63	-0.56	-0.46	-0.64	-0.35	-0.29	-0.24	-0.52	-0.21	-0.49	-0.15	-0.09	-0.10	-0.21
NFM	1.82E-03	2.87E-02		1.46	1.12	1.47	1.32	1.49	1.09	1.85	1.81	1.63	0.87	1.26	1.33	1.54	0.69	1.65	1.16	0.57	0.45	0.06	0.72	0.53	0.35	1.01	1.21
DCLK1	2.28E-03	3.47E-02		-0.95	-0.41	-0.93	-1.38	-1.21	-0.81	-0.24	-0.51	-0.17	0.26	-0.27	-0.57	-0.36	-0.64	-0.23	-0.45	-0.30	-0.19	-0.50	-0.49	-1.31	-0.95	-1.02	-1.27
PSA1	2.39E-03	3.50E-02		-0.45	-0.72	-0.29	-0.34	-0.91	-0.84	-0.70	-1.45	-0.84	-0.86	-0.90	-0.31	-0.69	-0.29	-0.68	-0.58	-0.25	-0.34	-0.23	0.08	-0.40	-0.20	-0.61	-0.23
CAPS1	2.48E-03	3.52E-02		0.39	-0.11	0.06	0.87	0.28	0.18	0.23	-0.24	0.21	0.01	0.12	0.24	-0.16	0.72	-0.07	-0.38	-0.51	-0.51	-0.71	-0.85	-0.42	-0.64	-0.08	-0.88
ENOA	3.57E-03	4.89E-02		-0.13	0.07	-0.13	-0.09	0.04	-0.13	-0.08	-0.10	-0.07	-0.05	-0.06	0.04	0.05	-0.15	0.01	0.03	0.13	-0.01	0.15	0.14	0.19	0.18	0.05	0.09
CSK11	4.25E-03	5.64E-02		1.12	1.23	0.96	-0.31	0.16	0.12	0.01	0.57	0.18	0.34	-0.74	-0.24	-0.15	0.39	-0.01	0.24	-0.53	-0.72	-0.42	-0.55	0.28	0.31	0.23	0.29
DLDH	4.77E-03	6.12E-02		-0.89	-1.29	-1.01	-1.05	-1.32	-0.70	-1.57	-1.80	-1.83	0.06	-2.02	-1.14	-0.62	-0.48	-1.56	-1.61	-0.09	-0.18	-0.30	-0.98	-0.10	0.53	-0.06	0.61
KCC2D	5.31E-03	6.61E-02		0.26	0.43	-0.02	0.63	0.24	0.64	0.36	-0.01	0.40	0.27	0.88	0.18	0.34	0.39	0.66	0.55	-0.02	-0.10	0.40	0.07	-0.25	0.04	-0.28	-0.77
SYN1	6.81E-03	8.23E-02		0.32	0.42	0.28	0.26	0.27	0.26	0.29	0.19	0.53	0.40	0.32	0.34	0.31	0.40	0.07	0.27	0.33	0.53	0.46	0.44	0.68	0.52	0.37	0.50
NFL	7.28E-03	8.55E-02		1.19	0.73	1.54	1.87	1.27	1.60	1.71	1.63	1.64	1.16	1.34	1.11	1.39	1.26	1.58	1.57	0.75	0.90	0.92	0.50	0.28	0.82	0.94	1.29
AINX	9.91E-03	1.10E-01		2.14	2.30	1.88	2.16	2.26	2.22	2.41	2.54	2.57	1.71	2.24	1.73	2.47	2.24	1.87	2.48	1.56	1.50	1.61	1.48	1.02	1.40	1.83	2.32
PRDX1	9.70E-03	1.10E-01	x	-0.23	-0.38	-0.27	0.00	-0.20	-0.25	-0.16	-0.46	-0.20	-0.33	-0.34	-0.35	-0.20	0.09	0.00	0.03	-0.05	0.19	-0.29	0.06	-0.05	-0.07	0.05	0.15
1433E	1.02E-02	1.10E-01		-0.55	-0.36	-0.38	-0.32	-0.61	-0.42	-0.20	-0.41	-0.12	-0.30	-0.40	-0.50	-0.36	-0.14	-0.33	-0.34	-0.11	-0.05	-0.25	-0.12	0.01	-0.06	-0.24	-0.17
HUWE1	1.09E-02	1.15E-01		-0.32	-0.32	-0.82	-0.74	-0.52	-0.64	-0.81	-0.66	-0.76	-0.75	-0.62	-0.44	-0.73	-0.56	-0.58	-0.84	-0.06	-0.52	-0.56	-0.24	-0.01	0.09	-0.44	-0.31
DAAM2	1.50E-02	1.46E-01		-1.11	-1.59	-1.69	-1.62	-1.13	-0.59	-0.19	-0.51	-0.45	-0.66	-1.00	-0.43	-1.68	-0.92	-0.41	-1.39	-0.39	-0.99	-0.37	-0.82	-0.84	-1.16	-1.09	-0.52
ITPR1	1.43E-02	1.46E-01		-2.66	-3.00	-2.73	-2.11	-2.49	-2.12	-1.34	-1.81	-1.86	-1.79	-2.22	-1.69	-2.32	-1.05	-1.75	-2.98	-1.80	-0.88	-1.51	-1.58	-1.74	-0.39	-1.48	-0.91
PSMD1	1.49E-02	1.46E-01		0.67	0.25	0.63	0.27	-0.44	0.45	-0.71	0.48	0.56	0.33	0.46	0.47	-0.08	0.01	0.13	-0.21	0.67	0.66	0.51	1.25	0.15	0.38	-0.19	0.46

TPIS	1.70E-02	1.62E-01	x	-0.36	-0.64	-0.63	-0.73	-0.57	-0.50	-0.64	-0.49	-0.70	-0.58	-0.46	-0.48	-0.56	-0.82	-0.56	-0.45	-0.27	-0.55	-0.29	-0.35	-0.34	-0.25	-0.29	-0.44
AP180	1.82E-02	1.66E-01		-0.08	-0.65	-0.43	-0.04	-0.02	-0.26	-0.10	-0.46	-0.16	-0.44	-0.38	-0.46	0.01	0.31	-0.09	-0.25	-0.19	0.13	0.07	0.14	0.17	-0.03	0.01	0.18
EPN1	1.89E-02	1.66E-01		0.07	0.13	0.14	0.14	0.16	-0.18	-0.05	-0.16	-0.11	0.00	-0.35	-0.34	0.07	-0.01	-0.08	-0.11	-0.21	-0.07	0.06	-0.06	0.05	0.27	0.08	-0.03
KCC2A	1.86E-02	1.66E-01		0.79	1.01	1.00	1.07	0.97	0.96	0.78	1.10	1.13	1.07	1.18	1.03	0.93	0.95	0.83	0.78	0.82	0.96	1.18	1.09	1.03	0.70	0.61	0.54
MARK2	1.77E-02	1.66E-01		0.59	-0.01	0.78	0.90	0.75	0.26	0.95	-0.36	1.17	-1.05	0.18	-0.08	-1.00	-0.39	-0.53	-0.03	0.33	0.30	-0.13	0.21	0.86	0.98	0.72	1.41
GCYB1	2.03E-02	1.74E-01		-0.47	0.30	-0.09	0.49	-0.22	-0.18	0.06	-0.33	-0.10	-0.25	-0.10	-0.34	-0.61	-0.37	-0.66	-0.43	0.19	-0.21	0.18	-0.25	-0.01	0.12	0.12	-0.11
KCRB	2.26E-02	1.89E-01		-0.74	-0.58	-0.56	-0.71	-0.68	-1.59	-0.78	-0.41	-0.63	-0.64	-0.58	-0.30	-0.41	-0.72	-0.34	-0.64	-0.39	-0.55	-0.54	-0.42	-0.30	-0.18	-0.05	-0.20
PRS8	2.30E-02	1.89E-01		0.59	2.23	0.48	-0.17	-0.44	-0.29	-0.32	-0.08	0.04	0.05	-0.46	-0.73	-0.03	-0.57	-0.70	-0.52	0.37	-0.04	0.55	0.01	-0.21	-0.47	0.16	-0.15
CBR1	2.43E-02	1.96E-01		-0.72	-1.19	-1.03	-0.81	-0.82	-0.77	-0.68	-0.91	-0.86	-0.59	-0.92	-0.84	-0.78	-0.61	-0.56	-0.67	-0.33	-0.24	-0.79	-0.67	-0.65	-0.75	-0.62	-0.68
PACN1	2.98E-02	2.35E-01		0.27	0.36	0.20	1.02	0.37	0.56	0.87	0.42	0.15	0.22	0.48	0.61	0.68	0.62	0.74	0.66	-0.73	0.00	-0.08	0.52	0.22	-0.29	0.48	-0.50
IMB1	3.10E-02	2.40E-01		-0.45	-0.66	-0.75	-0.19	-0.12	0.11	-0.60	0.01	-0.23	-0.24	-0.19	-0.12	-0.19	-0.04	-0.01	-0.40	-0.04	0.12	0.03	0.30	-0.17	0.65	-0.26	0.15
DYN3	3.24E-02	2.47E-01		3.84	3.34	4.08	3.24	4.61	3.67	3.48	4.10	1.64	4.24	4.44	4.99	4.74	3.49	4.40	4.30	5.54	4.79	3.96	4.03	2.73	2.87	2.45	2.32
VATE1	3.71E-02	2.77E-01	x	0.48	0.64	0.46	0.78	0.75	0.65	0.74	0.80	0.73	0.79	0.65	0.57	0.69	0.81	0.60	0.63	0.57	0.86	0.65	0.68	0.52	0.53	0.47	0.48
2AAA	4.41E-02	3.07E-01		-0.53	-0.01	-0.11	-0.15	-0.79	-0.25	-0.25	-0.11	-0.34	-0.23	-0.26	-0.33	-0.01	-0.07	-0.10	-0.26	-0.08	0.07	-0.04	0.01	-0.10	0.16	-0.14	0.19
ARPC3	4.22E-02	3.07E-01		-2.12	-1.45	-1.15	-1.50	-1.35	-2.37	-2.08	-2.02	-1.06	-1.74	-1.29	-0.88	-1.00	-1.63	-1.81	-1.71	-1.25	-2.05	-0.98	-0.99	-0.94	-0.64	-0.81	-1.36
HPCL1	4.32E-02	3.07E-01		-1.41	-1.44	-1.00	-1.82	-1.16	-1.41	-0.95	-1.65	-2.27	-1.63	-1.66	-2.07	-1.67	-0.72	-1.05	-1.48	-0.77	-1.21	-1.32	-1.24	-1.23	-1.12	-1.70	-1.44
UCHL1	4.34E-02	3.07E-01		-0.60	-0.66	-1.14	-1.18	-1.31	-0.53	-1.04	-0.95	-1.04	-0.55	-1.00	-0.78	-0.76	-1.17	-0.72	-0.61	-0.20	-0.54	-0.67	-0.71	-0.52	-0.04	-0.30	-0.65
VATB2	4.58E-02	3.13E-01		0.11	-0.02	0.12	0.13	NA	0.25	0.23	0.04	0.08	0.17	-0.08	0.16	0.15	0.13	0.05	-0.03	0.29	0.35	0.15	0.53	0.23	0.31	0.07	0.06
DMXL2	5.05E-02	3.40E-01		-0.35	-0.37	-0.92	0.03	-0.22	-0.63	-1.53	-0.26	0.65	0.48	1.14	-0.04	-0.44	-0.89	0.97	0.80	2.77	0.31	0.04	-0.57	1.53	0.80	1.11	0.93
SEP11	5.28E-02	3.50E-01		0.63	0.66	0.07	0.76	0.83	0.33	1.21	0.85	0.36	0.28	-0.19	-0.53	0.25	0.71	0.20	0.90	0.26	0.50	0.41	0.79	0.27	1.02	0.73	0.49
CLH1	5.68E-02	3.70E-01		-0.32	-0.05	0.08	-0.18	-0.15	-0.17	-0.26	-0.19	-0.25	-0.27	-0.16	-0.17	-0.20	-0.12	-0.21	-0.24	-0.09	-0.08	0.09	-0.13	0.16	0.05	-0.16	-0.06
AATM	6.17E-02	3.78E-01		0.22	0.60	0.33	0.48	0.32	0.32	0.74	0.50	0.48	0.64	0.43	0.48	0.50	0.48	0.40	0.57	0.53	0.59	0.49	0.82	0.75	0.95	0.57	0.67
KAP3	6.26E-02	3.78E-01		-0.82	-0.41	-0.60	-0.58	-0.62	-0.52	-0.43	-0.65	-0.62	-0.47	-0.64	-0.44	-0.43	-0.23	-1.03	-0.64	-0.18	-0.14	-0.18	-0.33	-0.34	-0.13	-0.44	-0.65
NEB1	6.05E-02	3.78E-01		0.04	1.12	0.31	0.90	1.40	-0.08	0.80	0.45	1.63	0.65	0.81	0.35	0.62	1.31	-0.42	0.99	0.72	-0.34	-0.93	-0.37	0.09	-0.57	0.05	-0.47
STXB1	6.09E-02	3.78E-01		0.45	0.41	0.40	0.44	0.59	0.57	0.42	0.56	0.64	0.56	0.50	0.51	0.61	0.42	0.66	0.60	0.53	0.48	0.52	0.51	0.56	0.61	0.52	0.47
ZNT1	6.07E-02	3.78E-01		0.25	0.16	-0.20	0.09	-0.21	0.07	0.13	-0.32	-0.88	-1.13	-0.36	0.14	-0.46	-0.63	-0.44	-0.23	-1.13	-0.73	-0.49	-0.27	0.26	-0.55	-0.60	-0.14
UBA1	6.47E-02	3.85E-01		-0.19	-0.28	-0.34	-0.33	-0.41	0.01	-0.21	-0.42	-0.27	-0.17	-0.24	-0.19	-0.23	0.04	0.05	-0.26	-0.23	-0.11	-0.10	-0.04	-0.17	-0.01	-0.04	0.11
VAT1L	6.69E-02	3.93E-01		-1.37	-0.91	-1.09	-1.24	-1.10	-0.53	-1.12	-0.81	-1.68	-1.34	-2.10	-1.35	-0.92	-0.70	-1.11	-1.02	-1.30	-1.16	-1.73	-1.74	-2.30	-0.55	-1.74	-1.34
HS90B	6.91E-02	3.97E-01		-0.99	-0.75	-0.88	-0.88	-0.67	-0.70	-0.22	-0.52	-0.35	-0.48	-0.80	-0.76	-0.72	-0.53	-0.75	-0.79	-0.67	-0.62	-0.80	-0.71	-0.65	-0.60	-0.77	-0.55
KCC2B	6.96E-02	3.97E-01		0.02	0.49	0.27	0.43	0.61	0.46	0.29	0.16	0.52	0.33	0.43	0.18	0.17	0.05	0.16	0.36	0.20	0.31	0.16	0.21	0.03	0.23	0.10	-0.17
ACOC	7.18E-02	4.04E-01		-1.01	-1.85	-2.59	-0.95	-0.17	-1.42	-1.48	-0.97	0.36	-0.96	-0.73	-0.22	-1.16	-0.59	-1.26	-1.25	-0.98	-0.21	-1.02	-0.76	-1.49	-0.77	-1.21	-1.46
ACON	7.67E-02	4.13E-01		-0.37	-0.17	-0.43	-0.31	-0.38	-0.38	-0.20	-0.57	-0.09	-0.41	-0.36	-0.30	-0.27	-0.10	-0.34	-0.36	0.02	0.01	-0.22	-0.44	-0.15	0.08	-0.16	-0.06
CAPZB	7.67E-02	4.13E-01		-1.50	-1.74	-1.77	-1.53	-1.57	-1.82	-0.95	-1.16	-1.52	-1.65	-1.71	-1.42	-1.96	-1.18	-1.06	-1.77	-1.64	-1.39	-1.51	-1.64	-1.35	-1.07	-1.05	-0.62
FSCN1	7.59E-02	4.13E-01		-0.58	-0.14	-0.32	-0.11	-0.32	-1.03	-0.45	-0.18	-0.95	-0.31	-0.09	-0.15	-0.21	-0.56	-0.23	-0.52	-0.01	-0.10	0.14	-0.13	0.10	-0.09	0.11	-0.12
SYNJ1	7.74E-02	4.13E-01		0.41	-0.17	0.16	0.60	0.04	-0.02	-0.09	0.42	0.66	0.70	0.36	0.58	0.50	0.61	0.67	0.26	0.34	0.45	0.62	0.49	0.60	0.29	-0.32	0.27
DGKA	8.49E-02	4.47E-01		0.32	0.16	-0.34	-0.15	0.22	0.19	-0.14	-0.14	0.10	0.16	0.24	0.37	0.24	0.16	0.09	-0.02	0.24	0.52	0.66	0.15	0.16	0.31	0.29	0.16
SEPT7	8.63E-02	4.48E-01		0.65	0.26	0.25	0.28	0.37	0.06	-0.08	0.41	0.31	-0.03	0.17	0.07	0.21	0.00	-0.03	0.32	0.18	0.07	0.38	0.43	0.53	0.68	0.36	0.33
GNAO	8.82E-02	4.48E-01		0.55	0.61	0.64	0.72	0.10	0.45	0.41	0.45	0.76	0.52	0.72	0.45	0.56	0.72	0.50	0.35	0.51	0.61	0.61	0.58	0.61	0.51	0.20	0.54
PHB2	8.79E-02	4.48E-01		-0.52	-0.26	-0.53	-0.48	-0.55	-0.73	-0.57	-0.70	-0.22	-0.21	-0.40	-0.69	-0.28	-0.35	-0.09	-0.29	-0.41	-0.08	-0.63	-0.57	-0.53	-0.07	-0.43	-0.16
MK01	9.22E-02	4.62E-01		0.05	-0.20	-0.43	-0.12	0.30	-0.14	-0.26	-0.25	-0.79	-0.83	-0.18	-0.16	-0.49	-0.18	-0.25	-0.27	0.01	0.37	-0.14	-0.07	-0.17	-0.03	-0.55	-0.47
DLG4	9.36E-02	4.64E-01		0.76	0.34	1.20	0.74	0.27	0.65	0.04	0.66	0.92	1.07	0.10	1.44	1.25	0.38	-0.07	-0.19	-0.29	0.03	0.54	0.43	0.21	-0.63	0.15	0.16
1433T	9.68E-02	4.64E-01		-0.62	-0.54	-0.70	-1.01	-0.79	-0.71	-1.00	-0.66	-0.98	-0.52	-0.56	-0.58	-0.55	-1.06	-0.57	-0.56	-0.23	-0.74	-0.29	-0.43	-0.28	-0.38	-0.24	-0.73
GBRA1	9.69E-02	4.64E-01		0.65	-0.22	1.06	-0.51	-0.05	0.51	-0.98	-2.14	-1.24	-0.41	0.97	-0.16	-2.95	0.21	-0.20	-2.59	-1.91	-3.28	-1.01	-0.96	-1.93	-0.66	-2.02	-1.28
HSP7C	9.71E-02	4.64E-01		-0.67	-0.48	-0.47	-0.28	-0.27	-0.34	-0.10	-0.55	-0.20	-0.23	-0.44	-0.42	-0.48	-0.48	-0.41	-0.34	-0.14	-0.22	-0.37	-0.26	-0.35	-0.22	-0.26	-0.20

DHE3	9.94E-02	4.64E-01		0.17	0.02	-0.11	-0.14	0.11	-0.12	-0.28	-0.03	-0.37	-0.13	-0.40	-0.20	-0.04	-0.45	0.24	0.01	0.21	-0.11	-0.13	-0.01	-0.03	0.09	0.16	0.31
GSH1	9.90E-02	4.64E-01		-0.21	-0.68	-0.70	-2.75	-0.41	-0.61	-1.32	-1.37	-0.03	-0.80	-0.71	-0.14	0.68	-0.40	-0.64	-0.08	0.02	-0.76	-0.47	0.79	-0.10	0.64	-0.54	1.17
GNAS2	1.03E-01	4.64E-01		-0.15	-0.59	0.08	0.18	-1.27	-1.26	-0.21	-0.15	-0.62	-1.02	-0.55	-0.62	-0.73	-0.26	0.51	-0.73	-0.42	-0.51	-0.58	0.23	0.15	0.10	-0.14	0.10
HPCA	1.02E-01	4.64E-01		0.71	0.36	0.25	0.94	0.58	0.28	0.10	0.71	0.75	0.46	0.67	0.68	0.57	0.64	0.19	0.16	0.31	0.56	0.46	0.97	0.77	0.71	1.11	1.02
NEGR1	1.02E-01	4.64E-01		-0.37	-0.61	-0.55	0.09	-0.51	-0.53	-0.96	-0.99	-0.34	-0.52	-0.82	-0.93	-0.27	-0.26	-0.56	-0.53	-0.15	-0.52	-0.13	0.70	0.02	-0.26	0.33	-0.89
GUAD	1.05E-01	4.67E-01		0.06	0.26	-0.10	0.06	-0.18	0.14	-0.03	-0.12	0.25	0.14	0.11	-0.01	-0.17	0.18	0.14	0.11	0.19	0.47	0.23	0.41	0.29	0.23	-0.22	-0.29
SNAB	1.06E-01	4.68E-01		0.79	0.48	0.50	0.02	0.60	-0.02	0.39	-0.21	-0.38	-0.22	0.33	0.53	-0.03	-0.33	-0.63	-0.11	0.50	0.32	0.36	-0.19	0.42	0.66	0.02	0.06
SCOT1	1.10E-01	4.81E-01		-0.54	-0.71	-0.94	-1.18	-1.22	-0.48	-1.55	-1.23	-1.39	-0.86	-0.54	-0.65	-1.04	-0.92	-0.92	-0.87	-0.34	-0.84	-0.62	-0.78	-0.38	-0.49	-0.53	-0.71
ERC2	1.13E-01	4.84E-01		-0.82	-2.20	-1.47	-2.66	-0.41	-1.67	-4.39	-2.29	-2.65	-2.23	-1.08	-1.95	-2.72	-2.97	-2.94	0.60	0.63	-1.49	0.14	-0.27	-0.40	-0.72	0.93	-1.42
GBRB3	1.13E-01	4.84E-01		0.81	-0.97	0.53	0.61	-0.99	0.02	0.10	-1.14	1.34	0.61	0.29	0.37	-0.90	0.34	0.68	0.18	-0.23	-0.33	1.13	0.19	0.05	1.52	1.06	0.84
CH60	1.15E-01	4.87E-01		-0.24	-0.43	-0.25	-0.22	-0.13	-0.22	0.23	-0.07	-0.11	0.02	-0.33	-0.32	-0.30	-0.17	-0.25	-0.25	-0.05	-0.02	-0.16	-0.20	-0.10	0.00	-0.25	0.09
VDAC2	1.19E-01	4.98E-01		-0.22	0.00	-0.18	-0.01	-0.30	-0.18	-0.05	-0.23	-0.04	0.03	-0.16	-0.23	-0.21	0.02	-0.22	-0.09	-0.02	0.18	-0.01	-0.10	-0.01	0.07	-0.11	0.08
PYGB	1.20E-01	4.98E-01		-0.63	-0.74	-0.82	-0.59	-0.79	-0.79	-0.25	-0.87	-0.61	-0.74	-0.57	-0.67	-0.51	-0.14	0.04	-0.81	-0.27	-0.35	-0.80	-0.33	-0.47	-0.36	-0.33	-0.23
CYFP1	1.22E-01	4.99E-01		0.11	0.38	-0.20	0.28	-0.03	-0.11	0.28	0.11	0.19	0.11	-0.10	0.22	-0.04	0.06	0.14	-0.15	0.18	0.21	0.60	0.29	0.35	0.19	0.17	0.37
DCTN2	1.25E-01	5.09E-01		-0.68	-0.27	0.14	-0.65	-1.02	-1.05	-0.31	-0.57	-0.20	-0.16	-0.17	-0.86	-0.72	0.34	-0.19	0.19	-0.21	-0.13	-0.14	0.06	-0.62	-0.60	-0.46	-0.11
CISY	1.26E-01	5.10E-01		-0.24	-0.21	-0.37	-0.47	-0.23	-0.38	-0.21	-0.15	-0.52	-0.24	-0.13	-0.21	-0.11	-0.33	-0.09	-0.41	0.02	-0.26	-0.32	0.03	-0.03	0.04	-0.11	-0.13
COPG1	1.29E-01	5.13E-01		-0.83	-0.85	-0.50	-0.84	-0.81	-0.79	-0.38	-0.77	-0.63	-0.57	-0.68	-0.19	-0.49	-0.17	-1.02	-0.56	-0.49	-0.27	-0.69	-0.26	-0.41	-0.18	-0.47	-0.25
LDHA	1.31E-01	5.13E-01		-0.40	-0.19	-0.34	-0.27	-0.32	-0.21	-0.06	-0.13	-0.02	-0.12	-0.30	-0.13	-0.31	-0.17	-0.14	-0.32	-0.12	-0.14	-0.16	-0.11	-0.17	-0.17	-0.29	-0.29
RAB2A	1.32E-01	5.13E-01		-0.96	-0.72	-0.90	-0.79	-0.74	-0.80	-0.72	-0.97	-0.85	-0.77	-0.95	-0.95	-0.98	-0.51	-0.81	-0.82	-0.54	-0.69	-0.75	-0.52	-0.84	-0.53	-0.65	-0.81
STX1B	1.32E-01	5.13E-01		0.52	0.76	0.68	0.67	0.87	0.64	0.99	0.84	0.74	0.89	0.40	0.64	0.73	0.76	0.78	0.46	0.52	0.72	0.32	0.71	0.46	0.61	0.44	0.58
VINC	1.34E-01	5.13E-01		-1.02	-0.25	-0.33	0.02	1.21	0.52	-0.04	0.01	-0.25	0.80	0.33	-0.15	-0.41	-0.93	0.05	0.19	-0.14	-0.07	-0.38	-0.03	-0.78	-0.78	-0.28	0.37
2ABA	1.35E-01	5.14E-01		0.49	0.19	0.41	0.12	0.60	0.63	0.32	0.62	0.08	0.73	0.11	0.83	0.61	1.05	0.55	1.03	0.62	0.22	1.54	0.90	-0.01	0.21	0.72	0.24
S4A4	1.37E-01	5.15E-01		-1.20	-1.65	-1.49	-1.30	-1.56	-1.68	-0.89	-1.86	-1.62	-1.60	-1.92	-1.72	-1.57	-1.33	-1.32	-1.49	-1.20	-0.98	-1.84	-1.63	-1.32	-0.98	-1.28	-0.87
G3P	1.40E-01	5.18E-01		-0.69	-0.74	-0.40	-0.20	-0.55	-0.02	-0.28	-0.48	-0.97	-1.55	-0.53	-0.10	-0.77	0.01	-0.30	-0.34	-0.33	-0.12	-0.02	-0.59	-0.09	-0.18	-0.14	-0.05
GRIA3	1.40E-01	5.18E-01		1.85	1.66	1.04	1.15	1.01	0.66	1.35	0.78	1.55	1.04	2.24	1.57	1.33	1.13	1.83	1.44	1.11	1.43	1.60	1.13	1.62	0.68	0.75	1.02
OTUB1	1.41E-01	5.18E-01		0.37	0.33	-0.18	-0.34	0.22	0.18	-1.15	0.19	-1.05	0.92	0.11	-0.11	-0.53	-0.80	-1.19	-0.62	-0.05	-0.22	-0.01	-0.33	0.36	0.01	-0.14	0.61
AAKG1	1.48E-01	5.33E-01		-0.42	-0.11	-0.30	-0.09	-0.37	-0.50	-0.16	-0.70	-0.27	-0.41	-0.36	-0.58	-0.38	0.00	-0.30	-0.25	-0.13	0.26	-0.35	-0.22	-0.26	-0.24	-0.28	0.00
ALDOC	1.50E-01	5.33E-01		-0.44	-0.42	-0.67	-0.57	-0.52	-0.52	-0.05	-0.44	-0.41	-0.63	-0.64	-0.52	-0.52	-0.34	-0.47	-0.41	-0.19	-0.35	-0.61	-0.57	-0.30	-0.28	-0.29	-0.27
ARC1A	1.50E-01	5.33E-01		-0.94	-0.99	-0.72	-0.92	-0.90	-0.69	-1.35	-0.92	-0.65	-0.99	-0.71	-0.55	-0.45	-1.13	-0.86	-0.94	-0.56	-1.28	-0.60	-0.66	-0.45	0.22	-0.34	-0.94
RAB14	1.49E-01	5.33E-01		-0.74	-0.56	-0.21	-0.93	-0.64	-0.54	-0.65	-0.69	-0.61	-0.75	-0.76	-0.35	-0.83	-0.59	-1.22	-0.38	-0.41	-0.17	-0.33	-0.51	-0.24	-0.42	-0.35	-0.57
NMDE1	1.57E-01	5.47E-01		1.08	1.80	1.29	1.17	1.17	1.47	0.76	1.43	1.30	1.24	1.57	1.56	1.50	1.17	1.71	1.88	1.48	1.07	1.52	1.69	1.30	0.89	1.03	0.99
ODPB	1.57E-01	5.47E-01		0.20	0.26	0.23	0.48	0.16	0.29	0.34	0.24	0.27	0.09	0.11	0.14	0.17	0.40	0.03	0.11	0.20	0.54	0.27	0.33	0.25	0.33	0.32	0.47
2A5D	1.68E-01	5.51E-01		-0.14	-0.35	-0.18	0.16	-0.31	-0.43	-0.55	-0.47	0.07	-0.15	0.19	-0.02	0.13	-0.14	0.11	-0.68	0.15	-0.39	-0.10	0.16	-0.40	-0.16	0.13	0.07
AL3A1	1.64E-01	5.51E-01		0.75	0.76	0.39	0.33	-0.72	0.43	1.24	0.95	0.68	1.32	1.64	1.07	-0.39	-0.03	0.47	1.21	0.88	1.32	0.99	1.04	1.33	1.19	0.95	0.36
DLGP4	1.65E-01	5.51E-01		0.13	0.26	0.15	0.18	0.38	0.28	0.30	0.28	0.32	0.33	0.15	0.06	0.28	0.38	0.32	-0.01	0.38	0.20	0.27	0.21	0.21	0.53	0.35	0.47
FAS	1.63E-01	5.51E-01		0.60	0.19	-0.23	-0.03	-0.28	-0.49	-0.17	0.32	0.08	0.76	-0.62	0.27	0.72	1.16	0.39	0.38	-0.29	-0.11	0.37	-0.12	-0.65	0.29	0.12	0.55
GBRG2	1.68E-01	5.51E-01		-0.22	-2.56	-0.04	-0.12	-2.16	-0.50	0.48	-0.09	-0.96	-0.59	NA	-1.90	-1.73	-1.26	-1.61	-1.26	-0.36	-2.31	-1.52	-0.93	0.11	0.88	-0.89	0.56
NCHL1	1.66E-01	5.51E-01		-0.05	-0.47	-0.04	0.03	-0.68	-0.50	-0.24	0.02	0.05	-0.27	-0.97	-0.25	-0.22	-0.20	-0.04	0.42	-0.03	0.15	0.06	0.44	-0.43	0.32	-0.08	0.23
PRDX5	1.60E-01	5.51E-01		-0.26	-0.36	-0.36	-0.18	-0.38	-0.31	0.08	-0.37	-0.07	-0.38	-0.41	-0.34	-0.25	-0.06	-0.29	-0.28	-0.11	0.05	-0.37	-0.23	-0.10	-0.05	-0.01	0.03
RAN	1.69E-01	5.51E-01		-0.69	-0.77	-0.71	-0.57	-0.63	-0.45	-0.50	-0.80	-0.55	-0.57	-0.90	-0.51	-0.97	-0.39	-0.64	-0.73	-0.46	-0.10	-0.59	-0.63	-0.50	-0.30	-0.51	-0.33
MARE2	1.73E-01	5.55E-01		0.01	0.04	0.02	0.09	-0.12	-0.05	0.12	0.10	0.05	-0.09	-0.04	-0.09	0.09	0.23	0.10	-0.04	0.03	0.11	0.12	0.09	0.07	0.31	0.11	-0.01
Q6NVC0	1.73E-01	5.55E-01		0.34	-0.10	0.50	0.03	0.18	-0.27	0.46	-0.14	0.22	0.24	0.21	0.18	0.27	0.65	0.45	0.41	0.23	0.62	0.17	0.31	0.24	0.28	0.71	0.40
DPYL1	1.76E-01	5.62E-01		0.33	0.25	0.24	0.38	0.29	0.39	0.35	0.13	0.43	0.21	0.22	0.29	0.28	0.35	0.31	0.15	0.41	0.42	0.38	0.35	0.40	0.34	0.33	0.56
AAK1	1.92E-01	6.00E-01		-1.03	-0.55	-0.58	-0.49	-1.16	-1.06	-0.39	-0.80	-0.04	-0.41	-1.25	-1.18	-0.43	-0.45	-0.75	-1.00	-0.69	-0.79	-0.60	-1.28	-0.35	-0.27	-0.31	-0.04

ACTZ	1.95E-01	6.00E-01		-0.73	-0.47	-0.65	-0.47	-0.57	-0.66	-0.26	-0.48	-0.15	-0.75	-0.54	-0.48	-0.49	-0.13	-0.52	-0.47	-0.41	-0.12	-0.35	-0.46	-0.39	-0.28	-0.20	-0.28
CAD10	1.94E-01	6.00E-01		0.00	0.05	0.01	0.04	0.55	0.69	0.05	0.29	0.61	0.01	0.08	0.44	-0.20	0.69	0.03	0.14	0.30	0.79	0.25	0.87	0.30	-0.06	0.55	-0.19
F8VWT9	1.95E-01	6.00E-01		-0.74	-0.25	-0.82	-0.19	-0.58	-0.64	-0.36	-0.75	-1.13	-0.57	-0.56	-0.28	0.13	-0.55	-0.55	-0.38	-0.50	-0.46	-0.47	-0.38	-0.11	-0.16	-0.41	-0.09
Q6PJ43	1.91E-01	6.00E-01		-0.28	-0.05	-0.29	0.03	-0.50	0.50	-0.13	-0.30	-0.38	-0.86	-0.29	-0.57	-0.17	0.13	-0.25	-0.12	-0.16	0.09	-0.74	-0.48	-0.13	-0.07	-0.20	0.19
NMDZ1	1.97E-01	6.01E-01		-1.27	-0.84	-0.16	-0.68	-0.10	-0.78	-0.47	-1.25	0.62	-1.06	-1.10	-0.09	0.02	-2.49	-0.63	-0.34	1.29	1.97	0.02	-1.39	0.06	0.11	0.93	0.22
ARF1	2.08E-01	6.10E-01		0.21	0.31	0.15	0.41	0.35	0.11	0.31	0.33	0.36	0.36	0.34	0.31	0.22	0.43	0.16	0.29	0.29	0.50	0.41	0.48	0.47	0.47	0.27	0.29
GRIA4	2.05E-01	6.10E-01		0.04	0.29	1.12	-0.09	-0.30	0.51	1.10	-0.23	0.04	0.44	-0.43	0.05	0.38	0.33	2.16	0.47	0.13	-0.13	0.78	1.24	0.84	1.28	1.14	0.87
HOME1	2.06E-01	6.10E-01		0.63	0.60	0.88	1.36	0.71	0.58	0.08	-0.17	0.48	0.41	0.89	0.84	0.37	0.60	0.18	0.75	2.75	0.46	0.11	-0.40	-0.03	-0.17	-0.47	-0.35
Q6FHZ0	2.08E-01	6.10E-01		-0.11	-0.11	-0.11	-0.31	-0.08	-0.02	-0.28	-0.06	-0.21	-0.05	-0.15	0.04	0.04	-0.22	0.06	-0.08	0.11	-0.27	-0.04	0.10	0.15	0.13	0.07	-0.07
VAPA	2.03E-01	6.10E-01		0.26	-0.24	-0.51	-0.16	-0.32	0.04	-0.31	-0.11	-0.06	-0.15	-0.58	0.01	-0.48	0.17	-0.80	-0.12	-0.61	-0.20	0.17	-0.80	-0.87	-0.34	-0.58	-1.14
SNPH	2.12E-01	6.17E-01		-0.41	-0.34	-1.68	-0.23	0.12	-0.07	-1.14	-0.95	-3.14	0.12	-0.95	0.41	-0.32	-1.65	-0.86	-0.88	-1.51	-0.86	-0.24	-0.94	-1.55	-2.59	-1.75	-2.18
CAND1	2.16E-01	6.18E-01		-0.13	-0.12	-0.39	-0.40	0.42	-0.35	0.20	-0.44	0.00	-0.22	-0.02	-0.15	-0.79	-0.03	-1.00	-0.12	-0.10	-0.41	0.69	0.52	-0.12	0.36	-0.27	-0.05
DPYL2	2.16E-01	6.18E-01		0.21	0.46	0.54	0.10	0.68	0.19	0.50	0.49	0.46	0.74	0.55	0.67	0.70	0.16	0.54	0.49	0.64	0.64	0.36	0.75	0.63	0.66	0.51	0.58
STX1A	2.15E-01	6.18E-01		1.28	0.85	0.92	1.52	0.98	1.10	0.97	0.92	1.52	1.10	1.39	1.45	1.54	1.33	0.99	1.25	0.73	1.06	1.30	1.01	1.30	1.18	1.18	0.67
AP2A2	2.27E-01	6.29E-01		-0.12	0.92	0.66	-0.23	0.53	0.73	-1.40	-0.92	-0.48	0.53	0.27	0.32	-0.26	-0.87	0.19	0.21	0.42	0.50	0.52	0.22	1.44	0.66	1.02	-0.06
DYHC1	2.28E-01	6.29E-01		-0.34	-0.21	-0.63	-0.13	-0.18	-0.54	0.20	-0.13	-0.05	-0.03	-0.56	-0.18	-0.57	0.15	0.13	-0.08	0.46	0.47	-0.25	0.09	0.17	0.04	-0.37	-0.04
GNA13	2.28E-01	6.29E-01		-0.04	-0.30	-0.22	-1.10	0.50	-0.69	-0.05	-0.24	0.95	-0.69	1.06	1.37	0.38	0.98	0.32	0.08	0.63	-0.03	0.09	-1.17	0.38	-0.57	-0.01	1.16
MPCP	2.28E-01	6.29E-01		0.33	0.23	0.35	0.07	0.12	0.32	0.36	0.41	-0.11	0.18	0.15	0.34	0.23	0.42	0.21	0.34	0.43	0.25	0.21	0.37	0.48	0.50	0.19	0.38
NCPR	2.28E-01	6.29E-01		0.33	-0.62	-0.60	0.29	0.09	-0.90	-1.04	-1.18	-0.48	-0.80	-1.64	-0.45	0.00	-1.26	-0.33	-1.72	0.02	-0.34	0.40	-0.52	0.47	-0.53	-0.85	0.28
PPIA	2.37E-01	6.50E-01		-1.71	-0.90	-1.01	-0.47	-1.02	-1.90	-0.72	-1.03	-0.62	-1.09	-0.73	-1.06	-1.11	-0.37	-1.04	-1.12	-0.85	-0.40	-0.77	-0.71	-0.71	-0.53	-0.59	-0.46
NDUS4	2.39E-01	6.51E-01		0.02	-0.17	0.18	-0.41	0.45	-0.55	0.48	-0.23	0.46	0.53	0.23	0.24	0.35	-0.07	0.49	0.04	-0.29	-0.30	0.18	0.19	-0.10	0.58	0.14	0.89
VDAC1	2.41E-01	6.51E-01		-0.06	0.06	0.05	0.18	-0.01	0.07	0.25	0.06	0.02	0.13	0.01	-0.04	0.06	0.03	-0.02	0.00	0.14	0.36	0.01	0.16	0.03	0.13	0.16	0.16
AT2B1	2.47E-01	6.62E-01		0.24	-0.12	-0.24	0.16	0.23	0.26	0.48	0.08	0.68	0.10	-0.11	0.25	-0.38	0.24	-0.48	0.29	0.00	0.13	0.03	-0.22	0.44	0.08	0.22	0.28
HS12A	2.48E-01	6.62E-01		0.19	0.35	0.21	0.46	0.07	0.18	0.27	0.16	-0.05	0.19	0.09	0.22	0.31	0.30	0.26	0.09	0.11	0.28	0.18	0.49	0.09	0.25	0.10	0.22
HOME2	2.50E-01	6.62E-01		-1.14	-1.54	-1.72	0.07	-0.37	-0.99	0.80	-0.14	-0.66	-1.08	-0.78	-0.91	-0.78	-0.38	-0.05	-0.88	-0.36	-0.85	-0.15	-0.89	-0.73	0.04	-0.82	-0.28
HS90A	2.59E-01	6.82E-01		-0.60	-0.46	-0.74	-0.49	-0.51	-0.41	0.33	-0.03	-0.03	-0.43	-0.62	-0.70	-0.85	-0.23	-0.41	-0.86	-0.34	-0.27	-0.54	-0.50	-0.50	-0.49	-0.50	-0.08
SHLB2	2.63E-01	6.89E-01		-0.27	-0.22	0.06	0.07	-0.21	-0.61	-0.24	-0.65	-0.48	-0.76	-0.09	-0.46	-0.03	-0.17	-0.94	-0.64	-0.30	-0.37	-0.18	0.72	-0.42	-0.47	-0.20	-0.49
SEPT9	2.71E-01	6.97E-01		0.40	-0.54	0.31	-0.13	1.26	0.30	0.51	0.28	0.80	0.66	-0.24	0.15	-0.15	0.46	0.94	1.41	0.88	1.03	0.50	0.95	0.88	1.21	0.39	-0.10
ARP2	2.87E-01	6.97E-01		-0.72	-0.02	-0.37	-0.05	-0.53	-0.19	-0.99	-0.42	-0.49	0.50	-0.07	-0.35	-0.55	-0.43	-0.70	-0.08	-0.42	-0.49	-0.42	-0.31	-0.46	-0.14	0.17	-0.06
CACB4	2.86E-01	6.97E-01		-0.63	-0.27	-0.27	-0.17	-0.31	-0.51	0.12	-0.02	0.38	-0.12	-0.17	-0.24	-0.30	0.28	-0.18	-0.11	0.13	0.26	-0.01	-0.13	-0.30	-0.18	-0.12	0.14
COF1	2.83E-01	6.97E-01		-0.43	-0.23	-0.49	-0.53	-0.94	-0.32	-0.61	-0.42	-0.50	-0.01	-0.01	-0.59	-0.30	-0.74	-0.49	-0.38	-0.37	-0.18	-0.57	-0.43	0.12	-0.28	-0.49	-0.15
DLGP2	2.79E-01	6.97E-01		0.08	-0.23	-0.38	-0.16	-0.35	-0.22	-0.07	0.12	-0.68	0.12	-0.66	-0.02	0.01	-0.39	0.61	-0.15	-0.46	-1.02	0.00	-0.83	-0.24	-0.46	-0.80	0.05
EAA1	2.86E-01	6.97E-01		-0.75	-0.74	-0.83	-0.95	-0.73	-0.90	-1.09	-0.75	-1.27	-0.82	-0.84	-0.76	-0.83	-1.07	-0.62	-0.80	-0.65	-1.04	-0.61	-0.56	-0.54	-0.49	-0.78	-0.72
GRIA1	2.71E-01	6.97E-01		-0.14	-0.50	0.41	0.79	0.20	0.42	0.94	0.63	0.61	1.50	0.07	0.93	1.73	0.63	0.61	0.60	0.27	0.80	0.66	0.32	1.00	0.64	0.97	0.42
GSK3B	2.80E-01	6.97E-01		0.10	0.70	-0.78	-0.06	-0.18	-1.78	-1.02	-0.42	-0.24	-0.90	-1.73	-1.04	-2.26	-0.32	-0.38	-3.02	-0.27	-0.79	-2.04	-0.75	-1.14	-0.89	-0.29	-1.88
HSP74	2.82E-01	6.97E-01		0.00	0.05	-0.06	-0.13	0.14	0.19	0.25	0.10	0.05	0.10	-0.12	-0.26	-0.13	0.37	0.15	-0.02	-0.08	0.37	0.23	-0.03	-0.22	-0.09	0.05	0.17
PAK3	2.85E-01	6.97E-01		-0.65	-0.60	-0.99	0.04	-0.53	-0.30	-0.29	-0.45	0.18	-1.10	-0.82	-0.54	-1.23	-0.43	-0.83	-0.62	-0.66	0.04	-0.02	-0.23	-0.34	-0.52	-0.12	-0.18
S12A5	2.79E-01	6.97E-01		-0.25	0.13	0.24	0.38	0.25	0.22	0.61	0.14	0.54	0.37	0.44	0.27	0.54	0.41	0.17	0.22	0.41	0.36	0.54	0.39	0.07	0.55	0.22	0.21
SYT7	2.83E-01	6.97E-01		-0.07	0.12	1.05	0.54	-1.49	0.31	-1.58	1.17	0.78	-0.17	-0.15	0.80	-0.56	0.20	1.79	0.16	1.39	4.48	1.24	-0.62	0.01	-0.49	0.52	-0.01
CA2D1	2.91E-01	7.04E-01		3.34	3.14	1.61	3.89	2.37	3.16	1.85	2.97	2.80	3.75	3.23	2.17	4.36	2.28	4.07	3.40	0.88	3.13	4.42	2.08	1.08	2.33	3.29	-0.12
DIRA2	2.94E-01	7.07E-01		0.43	0.22	0.17	0.55	0.12	0.25	0.36	0.50	1.06	0.65	0.23	0.44	0.62	0.59	0.47	0.30	0.40	0.37	0.52	0.36	0.57	0.38	0.46	0.76
ABR	2.98E-01	7.09E-01		0.84	-0.08	-1.05	-0.70	0.94	0.26	0.14	0.13	0.64	0.96	0.15	0.14	-0.85	0.33	-0.19	-0.81	-1.51	0.71	0.08	-0.33	-0.12	0.26	-0.44	0.14
CNDP2	3.00E-01	7.09E-01		-1.94	-1.60	0.08	-0.53	-0.62	-0.76	-0.40	-0.01	-0.02	-1.08	-0.03	-0.49	-4.05	-2.79	0.47	-1.02	-0.35	-0.97	0.57	-1.20	-0.57	-0.07	-0.09	-1.00
COPA	2.99E-01	7.09E-01		0.35	1.73	1.26	1.53	1.33	1.62	1.21	1.55	1.27	1.15	1.01	2.29	0.45	0.71	1.94	0.52	0.10	1.39	1.80	1.67	1.98	1.62	2.27	1.69

SYT2	3.07E-01	7.21E-01		-0.34	-0.59	-0.67	-0.27	-0.50	-0.33	-0.01	-0.53	-0.12	-0.54	-0.30	-0.68	-0.50	-0.11	-0.51	-0.34	-0.23	-0.43	-0.72	-0.80	-0.42	-0.06	-0.23	0.03
ENOG	3.11E-01	7.21E-01		-0.38	-0.32	-0.51	-0.24	-0.30	-0.34	0.17	-0.31	-0.02	-0.19	-0.44	-0.28	-0.36	-0.11	-0.32	-0.37	-0.23	-0.20	-0.43	-0.38	-0.22	-0.16	0.00	-0.12
MYPR	3.12E-01	7.21E-01		1.53	1.42	1.35	1.54	1.52	1.47	1.62	1.74	1.61	1.49	1.51	1.44	1.87	1.42	2.01	1.69	1.45	1.47	1.28	1.57	1.11	1.72	1.84	2.34
NMDE2	3.10E-01	7.21E-01		-0.35	0.12	0.75	-0.44	-0.37	NA	-0.32	-0.19	0.37	-0.08	-1.03	0.32	-0.03	0.47	0.55	0.51	NA	-0.26	-1.17	-0.84	-0.18	-0.87	-1.66	0.98
CNTN1	3.21E-01	7.29E-01		0.67	0.36	0.15	1.42	0.38	0.13	0.26	-0.10	0.10	0.25	0.43	0.71	0.36	0.87	0.48	0.31	0.34	0.47	0.40	0.17	0.63	0.37	0.46	0.49
ESYT2	3.20E-01	7.29E-01		-0.93	-1.94	-2.07	-0.89	-1.60	-0.57	-1.42	-1.46	-1.59	-2.10	-2.87	-1.52	-0.91	-0.59	-1.63	-1.73	-1.69	-1.72	-1.59	-0.96	-1.13	-1.70	-1.30	-1.87
VIME	3.18E-01	7.29E-01		0.18	-0.17	-0.65	-0.11	-0.13	0.67	0.06	0.68	-0.44	1.19	1.48	-0.03	-0.16	0.22	0.50	0.21	-0.46	0.04	-0.01	0.71	0.22	0.18	0.86	1.18
RP3A	3.23E-01	7.30E-01		0.90	0.71	0.15	0.11	0.16	0.67	-0.36	0.31	-0.21	0.72	0.68	0.23	0.36	-0.03	-0.21	-0.24	0.77	0.07	0.42	0.66	0.01	0.26	0.23	0.30
PP1B	3.26E-01	7.33E-01		-0.52	-0.20	-0.47	0.41	-0.16	0.09	-0.42	0.15	-0.48	0.37	-0.97	0.15	0.17	-0.65	0.18	-0.21	0.77	0.08	0.47	0.00	0.02	-0.49	-0.71	-0.12
PRS4	3.32E-01	7.42E-01		-0.23	-0.11	0.07	-0.96	-0.19	0.56	-0.41	-0.78	-0.43	-0.90	-0.46	-1.05	-1.13	-0.15	-0.99	-0.58	0.39	-0.18	-0.71	-0.52	-0.89	-1.09	-0.44	-0.31
CALB1	3.37E-01	7.42E-01		-2.04	-2.44	-2.63	-2.79	-3.07	-3.06	-1.66	-3.13	-2.63	-2.72	-3.54	-2.42	-2.92	-1.15	-2.39	-2.73	-2.15	-1.93	-2.50	-2.54	-2.12	-2.22	-2.24	-1.71
IF4H	3.35E-01	7.42E-01		-0.25	-0.27	-0.34	-0.88	0.09	0.38	-1.40	-0.21	-1.25	-0.17	-0.58	-0.49	-0.03	-2.44	-0.17	-0.61	-2.58	-1.41	-0.59	-0.47	-2.58	-0.54	-1.04	-1.37
NLGN2	3.38E-01	7.42E-01		0.16	-0.63	-0.36	1.29	0.96	0.67	-0.09	0.55	0.07	0.05	-0.50	0.42	0.23	0.32	1.33	1.25	1.35	0.21	1.69	0.34	0.93	-0.44	-0.09	1.00
GSTM3	3.49E-01	7.64E-01		0.29	-0.17	-0.37	-0.02	-0.27	-0.01	-0.19	-0.13	-0.80	-0.33	0.30	0.24	0.01	0.59	-0.30	0.29	0.23	0.27	-0.08	0.13	0.27	0.01	0.19	0.45
AK1C1	3.54E-01	7.65E-01		1.09	0.80	0.40	1.53	1.84	1.61	1.38	0.96	0.90	1.00	1.12	0.94	2.16	0.55	1.75	1.01	1.31	0.74	0.93	1.39	0.37	1.15	0.93	1.06
DYN2	3.54E-01	7.65E-01		-0.19	-0.05	0.17	0.18	-0.02	0.09	0.21	0.13	0.22	0.25	0.01	0.10	0.15	0.00	-0.08	-0.02	0.16	0.07	0.16	0.22	0.00	0.26	0.21	0.10
EFHD2	3.59E-01	7.73E-01		0.19	0.24	0.33	0.64	-0.03	0.25	0.92	0.43	0.88	0.45	0.12	0.45	0.28	0.68	0.00	0.17	-0.03	0.40	-0.01	0.02	-0.11	0.20	0.11	0.31
GBB1	3.62E-01	7.75E-01		0.45	0.45	0.42	0.23	0.43	0.37	0.13	0.40	0.23	0.47	0.53	0.48	0.43	0.19	0.46	0.40	0.54	0.31	0.61	0.68	0.61	0.48	0.50	0.27
ALDOA	3.82E-01	7.80E-01		0.29	0.62	0.41	0.06	0.39	0.22	0.21	0.50	0.16	0.57	0.37	0.28	0.37	0.00	0.36	0.28	0.48	0.31	0.59	0.62	0.59	0.43	0.47	0.32
ALDOA	3.82E-01	7.80E-01		-0.03	-0.35	-0.07	-0.30	-0.77	0.09	-0.05	-0.05	-0.94	-0.08	-0.39	-0.65	-0.03	-0.17	-0.15	-0.20	-0.29	-0.03	-0.36	-0.31	-0.43	0.02	-0.06	-0.12
AT1A1	3.89E-01	7.80E-01		-0.57	0.26	0.24	0.13	0.39	0.30	-0.34	0.18	-0.39	0.31	0.29	0.45	0.45	0.20	0.23	0.65	0.23	-0.02	0.10	0.28	0.45	0.31	0.49	0.30
ATPA	3.88E-01	7.80E-01		-0.42	-0.54	-0.50	-0.24	-0.48	-0.42	-0.06	-0.54	-0.08	-0.45	-0.47	-0.51	-0.50	-0.10	-0.30	-0.47	-0.25	-0.10	-0.29	-0.25	-0.29	-0.28	-0.25	-0.09
FLNC	3.83E-01	7.80E-01		-0.34	-0.32	-0.85	-0.38	-1.14	-0.60	-0.40	-0.45	-0.53	-0.69	-0.53	-0.39	-0.28	-0.57	-0.37	-0.78	-0.25	-0.45	-0.25	-0.41	-0.52	-0.17	-0.47	-0.30
GLSK	3.72E-01	7.80E-01		-0.27	-0.45	0.41	-0.01	-0.71	-0.12	-0.64	-0.37	-0.33	-0.33	-0.32	-0.12	-0.60	-0.53	-0.32	-0.24	-0.13	-0.65	-0.10	-0.27	-0.10	-0.46	-0.19	-0.63
KCNA1	3.86E-01	7.80E-01		0.66	0.60	0.17	1.59	0.97	1.07	0.75	0.86	1.37	1.37	1.41	1.02	0.87	1.41	1.04	0.76	0.37	0.87	1.01	0.60	0.84	0.57	1.95	0.71
KPCA	3.77E-01	7.80E-01		0.65	1.75	0.55	2.49	0.85	1.70	2.11	1.76	2.38	0.17	1.64	0.74	1.45	2.56	2.48	2.25	0.65	1.37	1.85	0.93	1.31	1.35	1.64	2.37
NTRK2	3.84E-01	7.80E-01		0.38	-0.18	-0.95	-0.09	-0.10	0.51	-0.24	0.44	0.40	0.01	0.37	0.23	-0.01	-0.22	0.21	-0.58	0.18	-0.03	-0.39	-0.45	0.16	-0.17	-0.11	1.20
OPA1	3.74E-01	7.80E-01		1.27	0.39	1.01	0.88	1.00	0.77	1.15	0.71	1.82	1.05	1.20	1.10	1.37	1.64	1.12	1.43	1.51	1.29	0.35	1.15	0.96	1.35	1.45	0.32
PSMD7	3.87E-01	7.80E-01		-1.10	-0.10	-0.63	-0.60	-0.02	-0.01	-0.70	-0.11	0.22	-0.38	-0.67	-0.91	-0.16	-0.84	-1.05	-0.52	0.09	-0.19	-0.69	-0.52	-0.16	-0.14	-0.25	-0.25
RTN4	3.89E-01	7.80E-01		0.12	0.28	0.18	0.25	0.30	-0.76	-0.11	0.25	-0.61	-0.13	0.06	-0.62	0.37	0.65	-0.31	-0.42	-0.10	0.76	0.36	-0.59	-0.27	-0.41	-0.16	-0.22
SUCB1	3.84E-01	7.80E-01		0.02	-0.12	0.04	-0.13	0.02	-0.15	0.24	-0.31	0.06	-0.18	0.15	0.05	0.31	0.22	0.20	0.01	-0.05	0.25	-0.20	0.19	0.13	-0.05	0.02	0.58
VATD	3.88E-01	7.80E-01		0.09	0.20	0.48	0.62	0.58	0.28	0.46	0.21	0.89	0.85	0.44	0.37	0.38	0.47	0.14	0.50	0.33	0.27	0.51	0.43	0.53	0.14	0.80	0.54
ACLY	4.10E-01	7.86E-01		-0.25	-0.70	-0.48	-1.15	-0.49	-0.59	-0.54	-0.47	-0.60	-0.69	-0.85	-0.65	-1.16	-1.16	-0.58	-0.75	-0.38	-0.19	-0.61	-0.69	-0.56	-1.22	-0.03	-0.72
AT1A2	4.00E-01	7.86E-01		-0.34	-0.13	-0.26	-0.20	-0.49	-0.25	0.16	-0.18	-0.08	-0.17	-0.47	-0.46	-0.26	-0.13	-0.06	-0.12	-0.02	-0.12	-0.07	-0.24	-0.36	-0.04	0.15	0.12
CPNE6	4.11E-01	7.86E-01		0.03	0.02	-0.15	0.46	-0.11	0.31	0.41	0.11	0.19	0.31	0.66	-0.08	0.01	-0.22	-0.36	0.56	0.12	0.54	0.57	0.32	0.32	-0.19	-0.19	0.22
FARP2	3.95E-01	7.86E-01		1.33	1.33	1.44	1.59	1.28	1.29	1.61	1.85	1.59	1.51	1.40	1.37	1.69	1.23	2.12	1.60	1.29	1.27	1.14	1.41	0.97	1.79	1.81	2.13
FLOT1	4.08E-01	7.86E-01		-5.09	-6.39	-2.95	-1.78	-6.17	-5.20	-3.50	-6.40	-2.22	-5.21	-4.32	-5.44	-4.20	-2.12	-6.68	-5.33	-4.49	-3.91	-6.04	-5.89	-2.33	-4.94	-3.40	-1.32
GDS1	4.05E-01	7.86E-01		-0.16	-0.15	0.09	0.18	-0.48	-0.15	0.62	0.19	0.62	0.27	-0.03	0.55	0.23	0.55	0.07	0.03	-0.03	0.53	0.04	0.12	0.30	0.30	0.33	0.28
GRM5	4.00E-01	7.86E-01		-1.52	-2.97	-0.84	0.17	-1.32	-1.98	-0.70	-0.72	-0.49	-1.64	-1.34	-2.35	-2.91	-1.33	-1.56	-1.13	-1.41	0.89	-1.47	-0.26	0.37	-1.93	1.10	-0.86
PIPNB	4.10E-01	7.86E-01		-0.40	-0.21	-0.57	-0.74	-0.05	-0.45	-0.69	-0.23	-0.74	-0.41	-0.53	-0.71	-0.53	-1.03	0.09	-0.21	-0.20	-0.58	-0.24	-0.25	-0.11	-0.21	-0.25	-0.24
RALA	4.04E-01	7.86E-01		0.00	-0.12	-0.52	0.22	0.31	0.10	0.30	0.14	0.49	0.14	-0.21	0.02	-0.12	0.51	0.63	-0.10	0.45	0.28	0.65	-0.09	0.34	-0.07	0.25	0.35
SRC	4.09E-01	7.86E-01		-0.48	-0.59	-0.76	-1.05	-0.58	-0.04	-1.17	-0.61	-0.94	-1.05	-0.17	-0.54	-0.99	-0.62	0.01	0.10	-0.21	-0.77	-0.47	-0.60	-0.10	-0.11	-0.21	-0.49
AIP	4.23E-01	7.88E-01		0.65	0.28	-1.01	-0.41	-0.30	0.06	1.05	0.28	-0.02	-0.75	0.24	-0.64	1.14	-0.05	0.00	0.41	0.57	0.09	-0.32	-0.29	0.26	-0.48	-0.44	-0.26
ANK1	4.17E-01	7.88E-01		0.12	0.47	0.09	0.26	0.17	0.35	0.44	0.61	0.28	0.36	-0.04	0.35	0.70	0.50	0.17	0.21	0.72	0.70	0.42	0.19	0.19	0.42	0.16	0.50

BDH	4.20E-01	7.88E-01		-1.83	-1.88	-1.91	-3.02	-2.43	-2.00	-3.44	-2.28	-3.04	-2.07	-1.83	-1.64	-2.09	-3.55	-1.55	-2.18	-1.25	-3.06	-1.90	-2.08	-1.46	-1.05	-1.29	-2.28
CO3	4.24E-01	7.88E-01		0.36	0.11	-0.05	0.29	0.27	0.15	0.37	0.42	0.16	0.76	0.32	0.49	0.31	0.37	0.12	0.22	0.34	0.43	0.29	0.19	0.37	0.15	0.32	0.74
DLGP1	4.22E-01	7.88E-01		-1.19	0.03	1.71	-0.44	0.37	0.64	0.10	0.58	1.26	0.52	1.10	0.74	0.76	1.33	1.45	0.27	0.44	-0.02	0.65	0.15	0.27	-0.10	1.70	-0.64
KALRN	4.18E-01	7.88E-01		-1.35	-0.26	-0.40	-0.02	-0.21	-0.37	0.12	-0.67	0.02	-0.84	1.07	-0.46	0.31	0.41	0.37	-0.07	-0.01	-0.28	-0.43	-0.74	-1.06	0.13	0.28	-0.50
1433G	4.34E-01	7.93E-01		-0.38	-0.40	-0.36	-0.02	-0.26	-0.27	-0.16	-0.20	0.03	-0.17	-0.36	-0.41	-0.26	-0.03	-0.35	-0.25	-0.16	-0.12	-0.05	-0.25	-0.06	0.02	-0.30	-0.04
1433G	4.34E-01	7.93E-01		-0.36	0.36	-0.22	-0.90	-0.35	-0.23	-0.84	-1.10	-0.66	0.41	-0.87	-0.61	-0.16	0.61	-0.49	-0.03	-0.11	-0.73	-0.28	-0.38	-0.22	-0.03	0.06	-0.65
AK1A1	4.31E-01	7.93E-01		0.04	-0.29	1.90	0.35	0.59	-0.74	-0.98	0.39	-0.03	0.54	-0.79	-0.14	-1.17	0.39	0.69	0.45	0.91	0.46	0.22	0.28	0.68	0.95	0.63	0.25
AT1B1	4.30E-01	7.93E-01		-0.07	0.17	0.10	0.22	0.14	0.19	0.41	0.01	0.26	0.09	0.11	0.22	0.06	0.44	0.20	0.21	0.27	0.35	0.13	0.12	0.24	0.36	0.19	0.42
DCE1	4.34E-01	7.93E-01		-0.08	-1.63	-1.40	0.39	0.21	-0.39	-0.35	-0.22	-1.59	-0.52	-0.57	-1.33	-0.77	-0.40	-0.28	-0.07	0.02	0.04	-1.10	-0.13	-1.32	-0.08	0.53	-0.18
ADHX	4.61E-01	8.29E-01		-0.22	-0.62	-0.48	-1.25	-1.03	-0.27	-0.67	0.04	-0.96	0.11	0.15	-0.17	0.04	-0.88	-0.06	-0.22	0.15	-0.78	-0.19	-0.07	-0.08	0.34	0.04	-0.49
GRM1	4.59E-01	8.29E-01		0.59	-0.48	-2.82	-3.05	-2.28	-2.28	-0.68	-3.40	-2.20	-0.51	-2.15	-2.60	-1.15	-2.42	-3.74	-2.12	-1.16	-1.03	-1.13	-1.65	-1.14	-1.15	-1.03	-1.02
L1CAM	4.61E-01	8.29E-01		-0.51	-1.21	-0.66	-0.86	-1.12	-1.03	-0.37	-1.41	-0.82	-0.34	-0.94	-1.11	-0.96	-0.81	-0.88	-1.11	-0.73	-1.10	-1.30	-0.81	-0.49	-0.27	-0.56	-1.02
SPTA1	4.62E-01	8.29E-01		0.57	0.42	0.97	0.05	0.31	-0.34	0.24	0.55	0.49	-0.01	1.10	0.70	1.48	1.17	-0.53	0.90	-0.34	1.11	-0.52	0.45	-0.09	-0.79	0.07	0.64
ADT3	4.73E-01	8.31E-01		0.11	-0.69	-0.10	-0.49	-0.08	-0.11	-0.69	-0.34	-0.03	-0.33	0.04	0.17	0.06	-0.67	-0.03	-0.16	-0.16	-0.35	0.08	0.13	-0.07	0.16	0.00	-0.12
GRP78	4.72E-01	8.31E-01		-0.47	-0.39	-0.06	-0.34	-0.20	0.01	0.36	-0.26	0.44	0.01	-0.50	-0.19	-0.23	0.16	-0.21	-0.02	-0.19	-0.29	-0.44	-0.14	0.03	0.05	-0.44	-0.03
PTPRS	4.74E-01	8.31E-01		0.03	0.32	0.21	0.30	0.05	0.13	0.67	-0.06	0.25	0.37	0.09	-0.05	0.15	0.12	-0.02	0.03	0.20	0.49	0.61	0.16	0.37	0.20	0.05	0.19
RGS7	4.70E-01	8.31E-01		0.67	1.08	0.74	0.47	1.64	1.23	0.43	0.39	0.96	0.55	-0.38	1.30	1.11	1.63	0.68	1.51	1.08	1.54	0.40	0.46	0.48	0.21	0.91	0.62
RTN3	4.65E-01	8.31E-01		-0.05	0.10	0.15	0.22	-0.03	-0.10	0.28	0.10	0.13	0.03	-0.04	-0.07	-0.02	0.21	0.00	-0.09	0.15	0.32	0.05	0.17	-0.05	0.02	0.14	0.11
VISL1	4.75E-01	8.31E-01		0.29	0.05	-0.03	0.26	0.03	0.16	0.23	0.33	0.39	0.13	0.03	0.31	0.10	0.40	0.26	0.15	0.26	0.13	0.26	0.11	0.36	0.26	0.35	0.32
CMC1	4.79E-01	8.33E-01		0.78	0.85	1.02	0.86	0.71	0.69	1.02	1.15	1.08	0.95	1.03	0.83	0.70	0.87	0.81	1.09	0.71	0.84	0.81	0.74	0.66	0.80	0.84	0.96
SEPT2	5.20E-01	8.49E-01		1.13	-0.21	-0.06	1.08	0.41	0.17	-0.12	-0.36	0.28	-0.23	0.12	-0.86	-0.49	0.61	0.85	0.22	0.05	0.37	0.46	-0.23	0.39	-0.22	0.34	0.13
1433Z	5.15E-01	8.49E-01		0.06	-0.12	0.08	0.14	-0.08	-1.32	0.21	-0.02	-0.24	0.07	0.32	-0.14	-0.06	0.30	-0.10	-0.04	0.05	0.23	0.17	-0.10	0.45	0.07	0.11	-0.08
ACTN4	4.96E-01	8.49E-01		0.26	0.02	0.46	0.68	0.76	0.87	0.32	0.25	0.62	0.87	0.88	0.54	0.45	0.29	0.52	0.40	0.61	0.24	0.80	0.91	1.16	0.39	0.07	0.29
ANK3	5.16E-01	8.49E-01		0.00	0.19	-0.63	-0.38	0.24	-0.01	-0.79	-1.06	-0.55	0.53	-0.41	-0.64	-0.73	-0.57	-0.28	0.02	-0.08	-0.41	0.00	-0.56	-0.16	0.26	0.19	0.24
CAP1	4.98E-01	8.49E-01		-0.58	-0.45	-0.14	-1.12	-0.11	-0.21	-0.75	-0.17	-0.75	-0.22	-0.31	-0.67	-0.10	-0.68	-0.29	-0.01	-0.19	-0.61	0.01	0.04	0.23	-0.06	-0.33	-0.67
GBRB1	5.00E-01	8.49E-01		-0.83	-0.21	0.30	-0.35	-1.14	-0.98	0.08	-0.17	-0.24	-1.69	-0.75	-0.44	-0.68	0.00	-0.09	-0.53	-0.46	-0.46	-0.61	-0.68	-0.36	-0.12	-0.43	-0.11
GHC1	5.19E-01	8.49E-01		-0.33	-0.63	-0.08	-0.43	0.14	0.88	-0.29	0.41	0.39	1.09	-0.30	-0.51	0.66	0.29	-0.70	-0.47	-0.25	0.63	0.76	-0.28	0.12	0.33	-0.49	-0.59
GNAI1	4.93E-01	8.49E-01		0.36	0.50	0.03	-0.04	0.52	0.34	-0.39	0.11	-0.08	0.56	0.77	-0.05	0.48	-0.10	0.56	0.37	0.34	0.60	0.60	0.77	0.57	0.63	0.25	0.10
GNAZ	5.03E-01	8.49E-01		0.38	0.35	1.07	0.40	0.21	-0.07	0.19	0.61	0.98	0.32	0.55	0.03	0.35	0.29	0.18	0.55	0.50	0.45	0.54	0.80	0.53	0.85	0.28	0.42
GRM2	5.02E-01	8.49E-01		0.77	1.56	0.96	1.63	1.04	1.44	1.41	1.31	1.45	1.29	1.25	1.58	1.07	1.36	2.05	1.63	1.13	2.07	1.25	1.66	1.51	1.12	0.90	1.06
NDUV1	5.23E-01	8.49E-01		0.16	0.06	-0.04	0.04	-0.16	0.40	-0.03	-0.11	-0.03	0.13	-0.18	0.06	0.14	-0.22	0.32	0.14	0.23	-0.15	0.11	0.34	0.08	0.34	0.27	0.22
PTPRZ	5.13E-01	8.49E-01		-0.06	-0.53	-0.25	-0.56	-0.41	-0.35	-0.18	-0.59	-0.72	-0.19	0.08	-0.87	-0.14	-0.59	-1.15	0.32	-0.42	-0.42	-0.70	-1.06	-0.98	-0.79	-0.63	-0.65
RAB3A	5.12E-01	8.49E-01		-0.16	-0.13	-0.11	-0.28	-0.13	-0.09	-0.53	-0.08	-0.30	-0.08	-0.18	-0.09	-0.10	-0.51	-0.15	-0.23	-0.04	-0.30	0.08	-0.03	0.12	-0.03	-0.01	-0.30
RHOA	5.22E-01	8.49E-01		-0.20	-0.22	-0.13	-0.76	0.34	0.11	-0.53	-0.25	-0.45	0.35	0.13	0.08	-0.52	-0.91	-0.44	-0.12	0.05	-1.31	-0.05	-0.18	0.04	0.18	-0.02	-0.87
RTN1	5.16E-01	8.49E-01		-0.05	0.10	0.15	0.22	-0.03	-0.10	0.28	0.10	0.12	0.03	-0.04	-0.07	-0.02	0.24	0.00	-0.09	0.15	0.32	0.05	0.17	-0.05	0.03	0.14	0.11
RUFY3	5.17E-01	8.49E-01		-0.60	-0.08	-0.52	-0.14	0.16	-0.45	-0.11	0.51	0.20	0.02	-0.47	0.07	0.01	-0.40	-0.35	0.59	0.12	-0.37	0.40	0.02	0.23	0.03	0.25	-0.09
TFR1	5.09E-01	8.49E-01		-0.06	-0.10	-0.16	-0.02	0.04	-0.36	0.37	0.02	0.23	-0.24	-0.07	-0.15	0.15	0.31	0.11	-0.24	0.16	0.22	-0.03	0.23	0.01	0.10	0.08	0.03
GRIA2	5.31E-01	8.53E-01		0.16	0.91	0.81	0.56	0.78	0.60	0.77	0.10	0.87	0.89	1.04	0.41	0.68	0.66	0.37	0.13	0.60	0.44	0.49	0.63	0.77	0.69	0.44	0.67
KPCG	5.29E-01	8.53E-01		-1.25	-1.12	-0.87	-1.61	-1.25	-1.11	-1.76	-1.16	-1.63	-1.79	-0.92	-1.34	-0.80	-1.77	-1.41	-0.98	-1.09	-1.16	-0.78	-0.95	-1.01	-1.21	-0.93	-1.45
PRS7	5.29E-01	8.53E-01		-0.91	-0.40	-0.77	-0.38	-0.70	-0.79	-0.38	-0.24	-0.15	-0.22	-0.94	-0.42	-0.63	-0.12	-0.61	-0.50	-0.37	-0.08	-0.49	-0.27	-0.41	-0.44	-0.21	-0.30
CTNB1	5.36E-01	8.55E-01		-1.81	-1.97	-2.61	-1.48	-1.21	-1.40	-1.37	-2.15	-1.33	-1.72	-2.16	-2.02	-1.51	-1.92	-1.68	-1.81	-2.09	-1.41	-2.46	-2.22	-1.36	-2.53	-1.79	-2.13
NCAM2	5.37E-01	8.55E-01		0.04	0.31	-0.45	-0.54	-0.17	0.27	-0.68	-0.48	-0.14	0.34	0.08	-0.44	-0.58	-0.33	-0.03	-0.12	0.13	-0.11	0.39	-0.40	-0.30	-0.37	-1.34	-0.01
DCTN1	5.42E-01	8.60E-01		-0.09	0.22	0.14	0.78	1.81	0.21	-0.43	-0.50	-0.72	0.41	0.52	-1.03	0.47	1.19	-0.12	0.80	0.14	0.05	-0.19	-0.49	-0.31	0.24	0.10	0.50
AAKG2	5.49E-01	8.63E-01		0.29	0.39	-0.17	-0.24	0.54	0.35	0.20	1.65	-0.34	0.74	0.86	-0.50	-0.58	-0.33	-1.40	1.21	0.54	-0.50	0.76	0.32	0.18	-0.22	1.04	0.01

AP2M1	5.59E-01	8.63E-01		0.00	0.30	-0.11	0.19	0.11	0.16	0.35	0.10	0.47	0.16	0.00	0.08	0.04	0.35	-0.02	0.06	0.26	0.57	0.13	0.22	0.11	0.25	0.08	0.07
NDUAA	5.60E-01	8.63E-01		-0.15	-0.70	0.57	0.44	-0.33	0.60	0.76	0.39	0.30	-0.10	-0.06	-0.02	0.47	0.20	0.77	0.05	0.59	0.60	-0.05	0.37	0.18	0.55	0.07	0.67
ODO1	5.52E-01	8.63E-01		0.87	-0.07	-0.08	0.33	0.21	0.24	-0.30	0.10	-0.02	-0.06	0.43	0.52	0.96	-0.50	0.41	-0.08	1.15	-0.44	1.09	1.00	0.39	0.16	0.56	0.05
RHOG	5.52E-01	8.63E-01		1.63	2.41	1.20	-0.33	2.65	2.49	-0.15	1.35	0.70	0.62	3.06	4.02	-0.67	-0.85	2.22	2.59	1.08	1.61	2.47	-0.13	2.79	3.75	1.83	1.68
SAR1B	5.57E-01	8.63E-01		2.05	0.91	0.78	0.77	0.77	1.34	0.82	0.44	1.21	0.55	-0.22	0.69	0.47	1.10	0.38	1.15	1.17	1.07	0.78	0.39	0.98	1.33	0.64	1.34
SDHB	5.57E-01	8.63E-01		-0.35	0.19	-0.56	0.02	-0.31	-0.63	0.42	-0.48	-0.18	-0.52	-0.37	-0.34	-0.42	0.02	-0.11	0.03	-0.13	0.19	-0.44	-0.16	0.03	-0.07	-0.05	0.20
B7Z1I4	5.57E-01	8.63E-01		-0.30	-0.61	-0.67	-0.17	-0.45	-0.35	-0.38	-0.36	0.24	-0.79	-0.37	-0.31	-0.79	-0.10	-0.75	-0.26	-0.29	-0.37	-0.42	-0.38	-0.12	-0.29	-0.28	0.08
ADT1	5.72E-01	8.73E-01		-0.31	-0.27	-0.09	-0.03	-0.01	-0.01	0.29	-0.33	0.14	-0.05	0.11	-0.20	-0.28	0.09	0.06	-0.09	-0.22	0.13	0.10	-0.12	-0.16	0.11	0.07	0.22
KAD4	5.75E-01	8.73E-01		0.60	0.06	-0.04	0.11	1.25	0.32	0.37	0.32	0.36	-0.22	0.27	0.44	0.23	0.16	-0.18	0.83	0.29	0.64	-0.78	0.04	0.61	0.57	0.35	0.05
RBGPR	5.76E-01	8.73E-01		-0.70	0.57	0.41	-0.79	-0.97	0.91	-1.42	-1.19	-0.86	-1.34	-0.27	0.02	-1.20	0.39	-1.15	-1.63	0.28	-0.44	-0.16	-0.47	-0.81	-1.40	-1.95	0.23
VP26B	5.71E-01	8.73E-01		-1.15	-0.06	-0.31	-0.23	-0.27	-0.40	0.40	0.05	0.03	-0.18	0.20	0.09	0.15	0.36	-1.25	-0.98	-0.57	0.17	-0.88	0.08	-0.16	-0.10	-0.18	0.22
ALDR	5.95E-01	8.74E-01		-0.26	-0.64	-0.76	0.37	-0.08	-0.08	-0.33	-0.10	-0.22	-0.04	-0.29	-0.09	-0.14	0.07	0.20	0.01	-0.28	-0.10	-0.19	0.17	-0.44	-0.19	0.09	0.47
CALR	5.89E-01	8.74E-01		-0.81	-0.50	-0.74	-0.66	-1.00	-0.94	-0.40	-0.58	-0.62	-1.08	-0.53	-0.75	-0.53	-0.19	-0.48	-0.89	-0.63	-0.47	-0.68	-0.20	-0.95	-0.43	-0.61	-0.11
CKAP5	5.89E-01	8.74E-01		1.29	1.14	1.00	1.48	1.12	1.43	1.68	1.81	1.26	1.93	2.14	0.96	1.26	1.36	1.12	0.99	0.64	1.37	1.75	2.30	1.63	1.28	1.71	1.71
FAK2	5.81E-01	8.74E-01		-0.89	-0.30	-0.36	-0.19	0.21	-1.13	-0.22	-1.25	-1.00	-0.75	-1.03	-0.06	-0.17	0.08	-0.22	-0.39	-0.48	-0.58	-0.59	-0.19	-0.85	-0.68	0.03	0.52
NCAM1	5.81E-01	8.74E-01		-0.28	-0.50	-0.71	-0.50	-0.65	-0.45	-0.19	-0.78	-0.55	-0.48	-0.41	-0.43	-0.58	-0.36	-0.19	-0.38	-0.35	-0.24	-0.54	-0.43	-0.35	-0.44	-0.44	-0.09
RAB10	5.93E-01	8.74E-01		0.07	-0.30	0.01	0.23	-0.06	0.50	0.22	0.56	-0.74	0.73	0.16	-0.57	1.16	-0.38	0.39	0.30	0.25	0.76	0.37	0.32	-0.64	0.10	0.72	0.55
RHG01	5.96E-01	8.74E-01		0.16	-0.09	0.57	0.32	0.82	-0.30	0.25	0.61	0.22	1.06	0.21	0.82	0.33	0.29	1.07	0.68	0.02	0.40	0.48	-0.10	0.94	-0.04	0.35	0.43
SERA	5.86E-01	8.74E-01		0.29	0.45	-0.62	-0.19	-0.07	0.11	0.05	0.11	-0.24	0.03	0.64	-0.45	-0.23	0.47	0.11	0.15	0.32	0.29	0.13	0.59	0.32	0.01	0.21	0.36
VAPB	5.94E-01	8.74E-01		0.29	0.03	0.65	1.28	0.34	0.44	0.30	-0.61	-0.82	-0.76	0.74	0.11	0.46	-0.80	0.86	-0.48	0.23	0.20	-1.09	1.35	0.18	-0.73	0.22	-0.98
CXA1	6.00E-01	8.75E-01		0.12	-0.52	0.21	0.33	1.54	-1.24	2.69	1.11	0.10	-0.31	-0.49	1.71	0.12	0.15	0.08	0.22	1.55	0.03	0.14	1.80	0.01	0.41	-0.20	1.49
SV2A	5.99E-01	8.75E-01		-0.53	-0.40	-0.22	-0.24	-0.15	-0.25	0.12	-0.44	-0.10	-0.12	-0.67	-0.17	-0.27	-0.14	-0.30	-0.15	-0.38	0.08	-0.21	0.16	-0.43	-0.20	0.11	-0.05
C2C2L	6.14E-01	8.92E-01		-0.07	0.30	0.10	0.50	0.02	0.01	0.40	0.11	0.16	0.12	0.36	-0.01	-0.13	0.18	-0.23	0.08	0.06	0.24	0.29	0.21	0.33	0.32	-0.27	0.04
SDHA	6.19E-01	8.95E-01		-0.59	0.28	0.05	-0.35	-0.26	-1.08	0.06	-1.07	0.02	-1.04	-0.42	0.36	-0.39	-0.80	-0.54	-0.63	-0.18	-0.08	-0.92	-0.47	-0.53	-0.58	-0.22	-0.67
CPNS1	6.23E-01	8.98E-01		-0.85	-0.40	-0.71	1.08	-1.16	0.66	0.69	-0.92	0.28	-0.03	0.07	0.80	-0.83	0.41	-0.16	1.45	0.16	0.61	0.51	0.42	-0.03	-0.31	-0.31	-0.29
QCR2	6.27E-01	8.98E-01		-1.27	0.00	-0.14	-0.36	-2.10	-1.52	0.47	0.15	0.00	-0.28	-0.63	-0.79	-0.32	-0.32	0.48	-0.80	0.40	0.29	-0.46	-0.25	-0.03	0.02	-0.38	0.00
SYGP1	6.25E-01	8.98E-01		-0.35	0.76	0.59	-1.68	0.24	1.86	-0.36	1.95	-0.22	0.81	0.68	1.00	0.20	0.19	-0.29	-0.77	1.26	-0.19	-0.01	0.33	2.33	0.49	-0.10	-1.55
IDH3A	6.34E-01	9.01E-01		-0.03	0.16	0.21	-0.22	0.04	0.27	0.00	0.36	-0.13	0.64	0.27	0.36	0.31	-0.19	0.29	0.03	0.45	-0.07	0.37	0.27	0.14	0.32	0.36	-0.01
USO1	6.33E-01	9.01E-01		1.77	1.63	1.45	1.95	1.68	1.67	1.81	1.80	1.56	1.58	2.08	1.65	1.93	1.37	1.77	1.95	1.47	1.65	1.52	1.64	1.13	2.01	2.21	2.46
ACSL6	6.41E-01	9.09E-01		0.08	-0.64	0.51	-0.36	-0.78	0.53	0.01	-0.02	0.59	-0.03	0.23	0.13	-0.25	-0.14	0.11	0.04	0.32	-0.53	0.10	-1.27	0.30	-0.04	-0.40	0.39
AKA12	6.48E-01	9.15E-01		0.11	1.07	0.56	0.72	1.48	1.46	0.66	0.43	1.76	0.98	0.03	1.56	1.67	1.55	0.86	0.85	-0.08	0.85	1.77	1.79	0.11	0.35	0.94	1.19
ANXA3	6.60E-01	9.22E-01		4.05	4.94	4.25	3.62	4.20	4.08	3.08	4.78	2.18	3.65	4.29	3.75	3.60	2.55	3.64	4.01	5.08	2.81	3.82	4.07	5.55	2.72	4.70	3.80
ARP3	6.71E-01	9.22E-01		-0.50	-0.13	-0.19	-0.76	-0.28	-0.54	-0.88	-0.52	-0.86	-0.60	-0.41	-0.21	-0.25	-0.59	-0.54	-0.40	-0.02	-1.07	-0.13	-0.12	-0.02	-0.02	-0.25	-0.60
CNTN2	6.71E-01	9.22E-01		1.53	1.05	0.86	0.39	-0.39	1.80	1.21	0.82	0.70	0.77	1.35	0.01	0.72	1.40	0.70	1.46	1.14	1.75	1.68	0.98	0.43	0.90	1.31	2.74
DLG2	6.68E-01	9.22E-01		-0.19	0.88	-0.20	0.29	0.05	0.08	0.13	-0.27	-0.01	-0.53	0.03	0.05	-0.23	0.33	0.21	-0.08	-0.19	0.50	0.12	0.52	0.21	0.32	-0.20	-0.41
IPO5	6.71E-01	9.22E-01		-0.88	-0.14	-0.17	-1.88	0.08	-0.70	-0.72	-0.18	-1.32	-1.12	0.07	-0.54	-0.72	-1.00	-1.55	-0.28	-0.40	-0.72	0.06	-0.49	-0.65	-0.71	-0.09	-0.66
NAC1	6.67E-01	9.22E-01		0.02	1.22	-0.57	-0.53	-0.27	-0.69	0.96	0.39	-1.38	1.08	-1.12	0.20	1.22	0.54	-0.31	0.33	0.55	-0.22	0.58	0.75	0.68	0.68	-0.49	1.16
PTPRA	6.63E-01	9.22E-01		-5.05	-4.96	-5.35	-5.77	-5.30	-5.40	-5.15	-5.08	-6.03	-5.36	-4.53	-4.84	-4.61	-6.64	-5.59	-5.27	-5.03	-6.46	-4.80	-4.87	-4.14	-5.39	-4.09	-5.35
STIP1	6.64E-01	9.22E-01		-0.09	-0.09	-0.04	-0.62	0.13	-0.21	-0.15	0.37	-0.20	0.00	-0.08	-0.16	-0.15	-0.07	-0.27	-0.21	0.00	-0.49	0.14	0.05	-0.04	-0.37	0.06	-0.36
PRS6A	6.82E-01	9.31E-01		-0.50	-0.84	-0.51	-0.57	-0.78	-1.75	-0.31	-1.15	-0.32	-1.44	-0.99	-0.65	-0.35	-0.35	-1.17	-0.95	-0.83	-0.22	-0.63	-0.80	-0.31	-0.61	-1.15	-0.24
SNAA	6.81E-01	9.31E-01		-0.03	-0.05	0.06	0.11	-0.24	-0.25	0.17	-0.16	0.10	0.13	0.01	-0.22	-0.26	0.24	-0.01	-0.27	0.03	0.21	-0.12	0.16	0.14	0.10	-0.29	0.06
SEPT5	7.98E-01	9.34E-01		0.84	0.82	0.45	0.24	1.55	0.28	0.31	0.32	0.33	0.70	0.40	0.13	0.40	0.36	0.12	0.52	0.43	0.78	0.76	0.36	0.70	0.63	0.28	0.48
4F2	7.32E-01	9.34E-01		-0.19	-0.29	0.14	0.25	-0.03	-0.25	0.14	0.12	-0.01	-0.10	0.01	-0.14	-0.09	0.11	0.09	-0.13	0.05	0.31	0.20	-0.12	-0.10	-0.06	-0.07	0.03
AATC	7.25E-01	9.34E-01		-0.31	-0.25	0.11	0.22	0.14	-0.26	0.19	-0.11	0.09	-0.13	-0.29	-0.05	0.17	0.08	-0.23	-0.19	0.08	0.23	-0.06	-0.12	0.11	0.13	0.13	0.02

ANK2	7.95E-01	9.34E-01		-0.20	-0.28	-0.16	-0.31	0.08	-0.20	0.20	-0.72	0.34	-0.03	-0.46	-0.49	-0.16	-0.04	0.19	-0.17	-0.28	0.14	0.07	-0.14	-0.05	0.22	-0.25	0.12
AP1B1	6.89E-01	9.34E-01		0.08	0.29	0.28	-0.28	0.37	0.02	-0.46	0.11	-0.20	0.31	0.36	0.27	0.22	-0.40	0.28	0.21	0.43	-0.21	0.54	0.56	0.44	0.35	0.31	-0.11
AP2B1	7.01E-01	9.34E-01		-0.09	0.48	0.58	0.33	0.10	0.31	0.37	0.36	0.33	0.32	0.36	0.30	0.36	0.27	-0.12	0.05	0.21	0.39	0.43	0.18	0.45	0.05	0.34	0.22
AP3B2	6.97E-01	9.34E-01		-0.30	0.05	-0.46	-0.29	-0.11	-0.23	0.46	-0.05	0.44	-0.37	0.16	0.22	0.07	0.30	-0.02	-0.56	0.23	-0.04	-0.38	0.12	0.43	-0.11	-0.45	0.37
ARPC2	7.07E-01	9.34E-01		-0.92	-0.73	-0.74	-0.88	-0.94	-0.25	-0.95	-0.52	-0.24	-1.06	-0.70	-0.69	-0.47	-0.66	-0.96	-1.06	-0.50	-0.80	-1.09	-0.42	-1.03	-0.88	-0.83	-0.96
AT1A3	6.90E-01	9.34E-01		0.43	0.42	0.35	0.15	0.49	0.37	0.14	0.49	0.10	0.42	0.27	0.20	0.41	-0.15	0.51	0.45	0.46	0.19	0.33	0.37	0.33	0.57	0.47	0.44
ATLA1	8.02E-01	9.34E-01		0.15	-0.45	0.81	-1.25	0.68	0.32	-1.11	-0.16	0.11	-0.59	0.53	0.12	-0.19	1.06	0.52	0.30	0.47	-0.26	0.81	-0.35	0.27	0.36	0.06	-0.36
ATPB	7.87E-01	9.34E-01		-0.47	-0.39	-0.53	-0.22	-0.60	-0.30	-0.11	-0.40	-0.25	-0.57	-0.56	-0.22	-0.47	-0.22	-0.14	-0.60	-0.42	-0.17	-0.42	-0.51	-0.43	-0.24	-0.24	-0.04
CACB3	7.25E-01	9.34E-01		-0.46	0.65	0.50	0.51	0.09	0.15	-0.95	-0.05	0.91	-1.37	0.40	-0.49	-0.31	0.35	-0.22	-0.18	-0.57	0.98	1.05	0.29	1.14	0.71	-0.15	-0.79
CDC42	7.57E-01	9.34E-01		-0.12	0.06	-0.31	-1.00	0.13	0.29	-1.29	-0.17	-1.08	0.10	-0.40	0.01	0.16	-0.92	0.16	0.24	0.11	-1.38	-0.50	0.04	0.29	0.32	0.17	-0.34
CDK5	7.70E-01	9.34E-01		0.53	-0.31	-0.12	-0.55	-0.82	0.42	-1.48	-0.49	-0.90	-0.15	0.08	0.39	0.05	-0.80	0.08	-0.26	-0.22	-0.28	-0.32	0.12	-0.58	0.08	-0.04	-0.89
CLAP2	7.40E-01	9.34E-01		0.48	-0.44	-0.23	0.51	-0.82	0.56	-0.74	-0.87	-0.69	0.07	-0.68	0.72	-0.43	-0.46	0.21	-0.12	0.22	-0.37	-0.89	-0.29	-0.48	-0.14	-0.09	0.18
CN37	7.00E-01	9.34E-01		1.67	1.42	1.41	1.12	1.54	1.33	0.64	1.32	0.74	1.34	1.44	1.33	1.63	0.68	1.68	1.51	1.30	0.49	0.97	1.30	0.84	1.19	1.70	1.52
CPT1A	7.74E-01	9.34E-01		0.77	0.11	0.84	1.27	1.46	1.30	0.94	0.46	1.81	0.86	-0.09	0.86	0.89	1.02	0.98	0.29	0.69	0.83	1.67	0.93	0.43	0.48	0.96	0.53
CTNA1	7.30E-01	9.34E-01		-0.11	0.34	-0.87	-1.43	-2.49	-0.58	-0.30	-0.12	-0.53	-0.34	-2.26	-1.51	-0.30	-2.34	-0.41	-1.54	-1.23	-0.27	0.30	-0.90	-0.62	-0.99	-0.34	-0.18
DCE2	7.10E-01	9.34E-01		-0.62	-0.34	-0.53	-0.95	-0.66	-0.43	-0.43	-1.17	-1.25	-0.47	-1.22	-0.80	-0.99	-0.64	0.04	-0.35	-0.27	-0.31	-1.49	0.04	-0.52	-0.32	-1.08	-0.31
DLG3	8.01E-01	9.34E-01		-0.77	-0.52	1.21	0.01	1.09	0.25	-1.01	-0.11	-1.11	-0.77	-0.28	0.61	-0.37	-1.19	0.22	0.22	0.27	-0.15	-0.26	0.66	0.37	0.29	0.40	-0.29
FARP1	7.78E-01	9.34E-01		0.02	-1.25	-1.12	-0.49	-0.69	-0.87	-0.29	0.09	-0.86	-1.19	-0.03	-0.36	-1.13	-0.68	-0.98	-0.72	-1.08	0.68	-1.62	0.39	-0.34	0.23	-0.48	-0.62
GDAP1	7.97E-01	9.34E-01		0.17	-0.44	1.17	-1.48	1.17	-0.01	-0.40	1.64	0.06	-1.46	0.43	0.11	-0.55	-0.34	-0.18	1.24	-0.49	-1.01	0.94	-0.52	0.22	-0.23	-1.18	1.17
GDIA	7.17E-01	9.34E-01		-0.31	-0.36	-0.68	-0.74	-0.42	-0.46	-0.80	-0.17	-0.56	-0.73	-0.66	-0.29	-0.41	-0.71	-0.40	-0.58	-0.30	-0.62	-0.39	-0.53	-0.19	-0.30	-0.24	-0.65
GEPH	7.75E-01	9.34E-01		-0.03	0.02	0.26	-0.28	-0.58	-0.15	-0.42	0.18	-0.23	-0.13	0.41	0.24	0.13	-0.30	-0.51	-0.14	-0.30	0.52	0.99	-0.64	0.73	0.00	-0.50	-0.16
GLPK	7.51E-01	9.34E-01		-0.14	-0.86	-0.54	0.53	0.40	-0.26	-0.29	0.01	-0.27	-0.04	0.68	-0.15	-0.28	0.07	0.00	-1.00	-0.38	0.57	0.47	-0.23	-0.15	0.39	-0.41	-0.48
GNAQ	7.54E-01	9.34E-01		-0.03	0.45	-0.25	-0.19	-0.03	0.20	0.03	-0.56	-0.14	-0.43	-0.14	-0.03	0.07	0.18	-0.11	-0.13	-0.05	-0.11	0.04	-0.20	0.31	0.03	-0.04	-0.14
HXK1	7.05E-01	9.34E-01		0.56	0.10	0.06	0.31	0.06	-0.26	0.36	0.20	0.41	-0.07	0.37	0.86	0.25	0.30	-0.07	0.23	0.18	0.50	0.47	0.09	0.72	0.11	0.00	0.28
IQEC1	7.74E-01	9.34E-01		1.61	0.11	0.19	0.74	1.33	-0.24	1.55	1.11	0.31	1.68	3.06	0.83	-0.67	1.31	2.27	0.85	-0.31	0.52	2.45	-1.40	0.53	0.95	0.62	1.95
KAD1	7.92E-01	9.34E-01		-0.54	-0.39	-0.57	-0.44	-0.32	-0.40	-0.17	-0.76	-0.33	-0.51	-0.24	-0.50	-0.44	-0.06	-0.57	-0.37	-0.23	-0.27	-0.35	-0.48	-0.32	-0.49	-0.37	-0.24
M2OM	7.86E-01	9.34E-01		-0.01	0.11	0.37	0.29	-0.04	-0.04	0.37	0.22	0.25	0.33	0.05	-0.08	0.31	0.28	0.21	-0.17	0.44	0.27	0.17	0.30	-0.23	0.72	0.23	0.55
NBEA	7.32E-01	9.34E-01		-0.58	-0.64	-0.04	-0.62	-1.10	-0.32	0.34	0.08	-0.03	-1.14	-0.02	-0.48	-0.32	0.10	-0.22	0.17	-0.63	-0.29	-0.08	-0.23	-0.45	0.31	-0.05	-0.46
NCDN	7.64E-01	9.34E-01		0.22	0.21	0.22	0.84	0.89	0.09	0.98	0.61	0.50	0.82	0.23	1.01	0.11	0.76	0.31	0.54	0.88	0.71	0.38	0.16	0.59	0.60	0.36	0.36
NRX1A	7.34E-01	9.34E-01		2.68	-0.65	0.87	0.71	0.78	-0.14	0.75	0.57	1.16	0.60	-0.25	1.49	0.07	0.94	0.75	0.78	0.21	0.41	-0.35	0.50	0.68	0.98	0.67	1.05
NSF	7.65E-01	9.34E-01		-0.15	-0.09	-0.34	-0.55	0.18	-0.25	-0.43	-0.19	-0.43	-0.29	-0.39	-0.32	-0.21	-0.55	-0.22	-0.21	-0.08	-0.49	-0.02	-0.34	-0.13	-0.12	-0.07	-0.45
PAK1	7.87E-01	9.34E-01		0.56	0.20	0.56	0.49	-0.51	0.71	0.93	0.68	-0.02	1.62	0.07	0.45	-0.11	-1.02	0.56	0.44	-0.39	0.77	0.88	1.44	-0.36	1.52	-0.09	0.82
PP2AA	7.81E-01	9.34E-01		-0.08	0.44	-0.08	-0.58	0.15	0.12	-1.00	0.00	-0.69	0.12	0.00	0.09	-0.05	-0.58	0.03	0.10	0.20	-0.45	0.00	0.62	0.25	0.30	0.16	-0.05
PSD12	7.17E-01	9.34E-01		-0.15	-0.01	-0.61	0.24	-0.74	-0.21	-0.23	-0.11	-0.22	-0.24	0.02	-0.07	-0.10	-0.35	-0.15	-0.19	-0.08	0.06	-0.27	0.06	-0.62	0.07	-0.07	-0.17
RAB1A	7.51E-01	9.34E-01		-0.25	0.14	-0.13	0.13	-0.05	0.01	0.53	-0.04	0.26	0.05	-0.22	-0.27	-0.18	0.38	0.08	-0.03	0.24	0.45	-0.06	-0.05	0.12	0.28	-0.01	0.15
RAP1A	7.61E-01	9.34E-01		0.34	0.52	0.81	0.38	0.36	0.35	0.01	0.83	-0.05	0.34	0.91	0.37	0.58	-0.89	0.62	0.57	0.21	0.53	0.38	0.99	0.32	0.69	1.02	0.59
RHG35	7.89E-01	9.34E-01		1.42	1.15	1.25	1.49	1.35	1.79	1.33	1.48	1.58	1.61	1.58	1.21	2.06	1.50	2.13	0.89	1.55	1.43	0.99	1.63	0.68	1.71	1.96	2.57
ROA2	7.17E-01	9.34E-01		-1.17	-0.84	-0.08	-0.87	-0.62	-0.63	-0.42	-0.75	-0.53	-0.79	-0.53	-0.70	-0.63	-0.52	-0.47	-0.76	-0.24	-0.70	-1.16	-0.86	-0.53	-0.49	-0.54	-0.34
SYN2	7.61E-01	9.34E-01		0.60	0.60	0.42	0.40	0.25	0.39	0.44	0.37	0.20	0.55	0.63	0.46	0.30	0.46	0.58	0.35	0.49	0.44	0.59	0.55	0.91	0.51	0.33	0.23
SYT1	7.53E-01	9.34E-01		0.60	0.63	0.58	0.57	0.62	0.50	0.65	0.51	0.60	0.60	0.54	0.51	0.50	0.83	0.21	0.40	0.48	0.71	0.66	0.63	0.73	0.44	0.45	0.49
UBP5	6.91E-01	9.34E-01		-0.05	0.15	0.15	-0.30	0.14	0.03	0.09	-0.51	0.08	-0.10	0.21	-0.19	0.00	-0.14	0.15	-0.22	0.39	0.32	-0.04	-0.01	0.11	0.08	-0.26	0.06
VATA	7.36E-01	9.34E-01		0.10	0.34	0.20	0.25	0.16	0.03	0.31	0.03	0.57	0.14	0.11	0.15	0.51	0.30	0.08	0.14	0.38	0.21	0.28	0.21	0.33	0.36	0.14	0.30
VATC1	7.82E-01	9.34E-01		0.15	-0.32	-0.35	-1.25	-0.09	-0.23	-1.19	-0.18	-1.20	-0.31	-1.05	-0.37	-0.18	-1.25	-0.40	-0.19	-0.34	-1.24	-0.34	-0.35	0.37	-0.32	0.07	-0.88
VATH	7.69E-01	9.34E-01		0.13	0.18	0.01	0.41	-0.10	0.13	0.55	-0.16	0.29	0.28	0.25	0.19	0.20	0.14	0.26	0.29	0.38	0.31	0.31	0.07	0.19	0.17	0.21	0.37

VDAC3	7.61E-01	9.34E-01		-0.16	-0.41	-0.24	-0.12	-0.26	-0.29	0.11	-0.21	-0.08	-0.18	-0.30	-0.30	-0.44	-0.06	-0.25	-0.26	-0.14	0.14	-0.40	-0.15	-0.19	-0.15	-0.15	0.04
VGLU1	7.53E-01	9.34E-01		-0.09	0.25	-0.23	0.08	-0.07	-0.18	-0.35	-0.03	0.40	-0.19	-0.13	-0.35	0.42	0.39	-0.54	-0.41	0.22	0.19	-0.07	0.04	0.49	0.35	-0.02	-0.22
VGLU2	7.34E-01	9.34E-01		0.01	-0.20	-3.25	-0.84	0.08	0.62	-1.11	0.73	-2.61	0.97	2.41	0.15	-1.56	-1.10	0.47	-0.71	-2.29	0.09	0.64	-0.31	-0.04	-0.75	0.58	-1.07
VPP1	7.95E-01	9.34E-01		0.25	0.04	0.74	0.67	0.58	0.75	0.44	0.45	0.71	0.39	0.18	0.55	0.10	0.74	0.40	0.54	0.11	0.49	0.31	0.43	0.43	0.50	0.12	0.39
SEPT4	8.23E-01	9.34E-01		0.51	0.69	0.01	0.55	0.63	0.74	0.23	0.24	0.79	0.49	0.39	0.56	0.86	0.55	0.23	0.55	0.38	0.60	0.67	0.20	0.71	0.86	0.62	0.38
SEPT8	8.25E-01	9.34E-01		0.64	0.57	0.97	0.14	1.63	0.31	0.08	0.99	0.28	0.69	1.24	0.83	0.99	0.62	0.98	0.35	1.12	0.36	0.12	0.30	0.57	0.97	1.07	0.83
3HIDH	8.27E-01	9.34E-01		-0.70	-1.07	-1.41	-0.93	-1.22	-0.67	-0.15	-0.79	-0.89	-0.10	-1.67	-1.43	-0.65	-0.79	-1.00	-1.64	-1.28	-0.28	-0.22	-1.12	-0.85	-0.28	-1.17	-0.91
CTRO	8.09E-01	9.34E-01		0.85	-0.23	-0.24	0.45	-0.16	-1.18	1.89	-0.92	0.21	-0.76	-1.93	0.48	1.77	-0.02	-0.91	-0.40	0.26	0.25	0.95	0.13	-0.24	0.36	0.28	-0.19
DLG1	8.14E-01	9.34E-01		-2.47	1.73	-0.66	-0.28	-0.14	0.38	0.66	0.52	-0.79	0.52	0.77	-6.34	0.18	1.15	-3.01	-0.75	-0.25	0.30	0.34	-2.14	-1.02	-0.65	-0.98	-0.45
GLUC	8.22E-01	9.34E-01		6.52	6.05	7.95	4.04	NA	7.32	8.92	5.75	7.35	NA	0.88	7.57	7.22	5.95	0.04	7.97	5.82	2.71	5.56	6.11	6.32	3.94	6.83	3.26
KPYM	8.12E-01	9.34E-01		-0.01	-0.13	-0.07	-0.50	-0.09	-0.08	-0.47	-0.02	-0.40	0.19	-0.08	-0.08	0.07	-0.62	0.06	0.03	0.12	-0.30	-0.05	0.06	0.03	0.04	0.06	-0.06
MK03	8.24E-01	9.34E-01		-0.12	-0.16	-0.57	-0.57	-0.57	-0.15	-0.75	-0.40	-0.43	-0.26	-0.35	-0.71	-0.80	-0.47	-0.02	-0.39	-0.33	-0.28	-0.21	-0.41	0.06	-0.12	-0.43	-0.57
NCAN	8.07E-01	9.34E-01		0.70	1.79	-0.63	0.59	1.92	0.65	1.23	1.00	0.94	0.27	1.37	1.06	0.67	0.62	0.98	0.52	-0.03	0.95	1.18	0.98	2.27	0.24	0.73	0.87
PYC	8.19E-01	9.34E-01		-0.24	0.04	0.69	-0.30	-0.16	0.04	-0.71	0.19	-0.33	0.03	0.03	-0.01	0.29	-0.73	-0.59	-0.34	-0.47	1.77	-1.08	-0.13	-0.61	1.20	0.18	0.48
SC6A1	8.27E-01	9.34E-01		0.03	-0.34	-0.20	-1.32	-0.08	-0.26	-1.80	0.06	-1.21	-0.08	-0.71	-0.55	-0.09	-1.91	-0.48	0.40	0.24	-1.12	0.48	-0.07	0.57	-0.03	0.11	-0.89
SHAN2	8.30E-01	9.34E-01		-2.96	-3.00	-0.77	-0.89	-1.86	-0.61	-2.82	0.35	-0.31	-6.42	-2.41	-1.46	-2.48	-0.62	-2.90	-1.21	-3.51	-1.83	NA	-0.10	-1.43	-1.23	-1.19	-1.52
PTPR2	8.36E-01	9.37E-01		0.32	0.53	-0.41	0.20	-0.21	-0.31	0.54	1.45	0.85	0.33	0.51	0.26	-0.14	0.46	-0.36	0.05	-0.30	0.02	1.38	0.02	0.39	0.57	-0.19	-0.06
SPTB1	8.36E-01	9.37E-01		0.07	0.59	0.55	-0.53	-0.63	-0.14	-0.26	0.88	-0.05	-0.11	-0.57	0.00	-0.20	-0.44	-0.16	0.41	-0.65	-0.07	0.18	-0.30	-0.20	-0.36	0.12	0.25
RABE1	8.39E-01	9.37E-01		0.43	0.11	-0.41	-0.29	-0.19	0.20	-0.23	-0.32	0.26	1.31	-0.61	0.78	0.01	0.63	0.17	0.50	0.27	0.69	0.01	-0.50	-0.29	-0.16	2.39	1.49
RABE1	8.39E-01	9.37E-01		0.66	-1.37	-0.13	-0.53	-1.11	0.10	-0.07	-0.19	-0.62	-0.68	-0.93	-0.29	-1.54	0.28	-0.41	-0.26	0.04	0.81	-0.13	-1.13	0.08	-0.16	-0.56	-1.01
VPS35	8.41E-01	9.37E-01		-0.33	-0.73	0.46	0.06	1.20	-0.52	0.15	-0.67	0.03	-1.15	-0.12	-0.17	-0.62	0.49	-0.06	0.24	-0.83	-0.16	-0.30	-0.30	0.61	0.03	-0.68	-0.59
AP2A1	8.46E-01	9.37E-01		-0.21	-0.22	0.83	0.55	-0.15	0.02	0.18	0.17	0.42	-0.19	-0.32	0.14	0.33	0.43	-0.61	-0.06	-0.04	0.00	0.45	0.77	0.15	0.14	0.38	-0.26
ATPO	8.46E-01	9.37E-01		-0.46	-0.26	0.14	-0.10	-0.89	-0.28	-0.03	-0.14	0.19	-0.26	-0.18	-0.34	-0.22	0.37	-0.47	-0.25	-0.40	0.09	-0.05	-0.13	-0.39	0.21	-0.04	-0.05
CAP2	8.54E-01	9.39E-01		0.86	0.61	0.97	0.34	0.08	0.49	0.89	-0.48	0.92	1.48	0.85	0.40	-0.17	1.59	0.33	1.12	-0.20	0.66	1.36	0.50	0.54	-1.63	0.81	1.79
CNTP1	8.53E-01	9.39E-01		0.64	0.16	0.49	0.92	0.25	0.39	0.56	0.31	0.52	0.51	0.27	0.22	0.33	0.52	0.94	0.12	0.65	0.55	0.27	0.36	0.33	0.58	0.29	1.14
FLOT2	8.53E-01	9.39E-01		-2.16	-2.07	-1.29	-1.99	-2.20	-1.05	-1.67	-2.74	-1.67	-2.25	-0.48	-1.31	-1.44	-1.22	-2.81	-1.64	-1.29	-2.90	-2.37	-1.08	-1.63	-2.44	-0.55	-1.27
KPCE	8.57E-01	9.39E-01		-0.84	-0.38	-0.14	-0.50	-0.50	-0.50	-0.23	-0.24	-0.37	-0.62	-0.09	-0.50	-0.10	-0.46	-0.40	-0.24	-0.40	-0.24	-0.53	-0.45	0.14	-0.35	-0.49	-0.44
C1TC	8.61E-01	9.41E-01		0.74	-1.25	0.58	-0.58	-0.32	-0.88	-2.27	0.22	0.73	-1.73	-1.54	-0.25	-0.08	-2.96	0.44	0.86	-0.15	-1.91	-1.69	-0.59	-0.92	-0.04	0.27	-0.90
GLNA	8.72E-01	9.50E-01		-0.15	0.04	-0.01	-1.44	-0.13	-0.14	-1.59	0.00	-1.33	-0.23	-0.17	-0.27	0.00	-1.47	0.19	0.05	0.06	-0.96	-0.12	0.07	0.16	0.37	0.11	-0.58
GPDM	8.74E-01	9.50E-01		0.23	-0.09	0.34	0.47	0.66	-0.20	0.35	-0.17	0.12	0.55	0.61	0.19	-0.39	0.47	0.48	0.68	-0.48	0.23	0.72	0.63	0.93	0.56	0.34	0.16
ADDB	8.80E-01	9.53E-01		0.71	0.22	0.82	0.36	0.51	0.73	-0.02	0.62	0.12	0.39	0.60	0.15	0.91	0.08	0.58	0.83	0.48	0.39	0.34	0.69	1.18	0.06	0.35	-0.09
COR1A	8.81E-01	9.53E-01		-0.46	-0.76	-0.37	-0.14	-0.54	-0.26	-0.20	-0.41	-0.02	-0.61	-0.55	0.33	0.07	0.43	-0.62	-0.56	-0.67	0.08	0.08	-0.41	0.22	-0.05	-0.41	-0.47
CKAP4	8.92E-01	9.62E-01		0.21	-0.53	-0.13	-0.68	-0.14	-0.21	-0.18	-0.75	-0.11	-0.01	-0.31	-0.24	-0.37	-0.16	-0.01	-0.43	0.07	-0.19	-0.41	-0.47	0.20	-0.17	-0.39	-0.11
SEPT3	9.01E-01	9.66E-01		-0.02	0.01	-0.18	0.05	-0.32	-0.29	0.38	0.02	0.28	-0.27	0.26	-0.15	0.03	0.14	-0.51	-0.21	0.01	0.33	0.03	-0.19	-0.34	-0.07	0.11	-0.02
DYN1	9.05E-01	9.66E-01		-0.07	0.15	-0.25	-0.45	0.50	0.44	-0.53	0.02	-0.30	-0.29	0.68	0.24	0.35	-0.89	0.08	0.71	0.24	-0.57	0.19	0.38	0.64	0.19	0.24	-0.13
OGDHL	9.05E-01	9.66E-01		1.06	0.55	0.82	0.12	0.77	0.63	0.74	0.79	0.39	0.61	0.91	1.19	0.24	0.32	1.02	1.02	0.91	1.15	0.96	0.30	0.98	1.10	0.60	0.74
PP1A	9.01E-01	9.66E-01		0.04	0.19	-0.10	-0.87	-0.01	0.07	-1.20	-0.08	-0.89	0.07	0.06	-0.04	0.09	-0.80	-0.09	-0.12	0.10	-0.75	0.32	0.12	0.40	0.22	0.06	-0.46
AOFB	9.16E-01	9.69E-01		0.79	0.47	0.46	-0.20	0.74	-0.21	0.73	-0.43	0.09	0.61	0.05	0.34	-0.49	-1.18	0.65	0.79	1.03	0.55	-1.03	0.20	-1.06	-0.02	1.23	-0.67
BAIP2	9.17E-01	9.69E-01		0.19	0.11	0.86	0.00	0.46	0.24	-0.29	0.36	0.22	0.47	0.03	0.42	0.89	-0.37	0.21	0.81	0.17	-0.08	0.48	0.11	0.65	0.36	0.06	0.53
CUL3	9.13E-01	9.69E-01		0.01	0.93	0.56	0.45	0.38	-0.06	0.32	0.81	0.30	0.78	0.14	0.35	-0.28	-0.10	0.31	0.91	0.02	0.76	0.61	-0.03	0.44	0.44	0.17	-0.05
MARK1	9.16E-01	9.69E-01		-0.13	-0.67	-0.46	0.26	-1.89	-0.26	0.39	0.04	0.32	-0.70	-0.82	-0.54	-0.23	-0.22	-0.83	-0.90	-0.31	-0.25	-0.81	-0.76	-0.30	0.00	-0.12	-0.41
GRM3	9.25E-01	9.71E-01		1.01	1.93	0.79	1.63	1.19	1.02	1.10	0.88	1.35	1.22	1.24	0.41	1.30	1.69	0.73	0.71	1.02	1.35	1.25	0.98	1.94	1.06	0.75	0.91
IP3KA	9.26E-01	9.71E-01		0.58	-0.01	-0.24	1.37	-0.43	0.88	0.84	0.09	0.72	0.14	0.94	0.57	0.53	1.42	0.37	0.10	0.02	0.20	0.88	0.35	0.37	-0.03	0.80	-0.03
TEBP	9.23E-01	9.71E-01		-0.07	-0.23	0.20	-0.77	0.43	0.26	-0.67	-0.33	-0.62	-0.20	-0.17	-0.74	-0.27	-0.69	-0.16	0.52	0.07	-1.44	-0.06	0.43	-0.23	0.10	-0.02	-0.30

UBE2N	9.29E-01	9.71E-01		0.31	-0.05	0.44	0.71	0.47	0.27	-0.21	0.62	0.17	0.22	0.56	0.73	0.25	0.59	0.71	0.19	-0.05	0.58	-0.35	0.66	0.28	0.18	0.60	0.40
G6PI	9.44E-01	9.80E-01		0.01	0.12	0.15	0.50	0.25	-0.01	0.30	0.12	-0.05	-0.05	0.42	0.44	0.10	0.44	0.37	0.28	0.59	-0.20	-0.08	0.27	0.20	0.27	-0.05	0.69
RAC1	9.44E-01	9.80E-01		-0.07	-0.07	-0.08	-0.87	-0.10	-0.16	-0.86	-0.16	-0.66	-0.08	-0.15	0.14	-0.06	-1.07	0.14	-0.04	-0.18	-0.68	-0.11	0.07	0.21	0.05	0.04	-0.50
SND1	9.40E-01	9.80E-01		-1.93	0.56	-0.51	-1.00	0.81	-0.81	-0.20	-0.70	-3.00	-0.98	-0.66	1.87	-0.76	-1.41	-0.15	-0.67	-0.11	-0.21	-0.31	-0.92	-1.34	-0.82	-0.76	-0.57
COR1C	9.59E-01	9.83E-01		-0.78	-0.29	-1.09	0.26	-0.72	-0.77	-0.15	-0.85	0.01	-0.76	-0.60	-0.40	-0.50	-0.13	-0.73	-0.66	-0.61	-0.52	-0.41	-0.71	-0.47	-0.16	-0.09	-0.91
NRX3A	9.50E-01	9.83E-01		0.23	0.04	0.12	0.51	-1.26	0.55	0.84	0.93	0.03	-0.10	-0.24	1.02	-0.31	0.64	-0.18	0.57	-0.99	0.06	0.72	-0.26	0.18	-0.41	0.59	-0.36
PDE2A	9.57E-01	9.83E-01		0.13	0.68	1.16	0.60	1.30	0.78	-0.44	0.60	-0.05	0.16	0.88	1.36	0.63	-0.29	0.50	0.38	0.00	0.10	0.57	1.97	0.68	0.05	1.51	0.64
PSMD2	9.52E-01	9.83E-01		-1.14	-0.39	0.22	-0.43	-0.01	0.15	0.07	-0.47	-0.79	-0.04	-0.08	-0.25	0.38	0.62	-0.70	-1.16	0.51	-0.38	-1.56	-0.20	0.31	-0.26	-0.73	-0.84
RB39A	9.57E-01	9.83E-01		-0.15	-0.71	-0.60	-0.24	-0.77	-0.70	0.32	-0.73	-0.02	-0.41	-0.56	-0.28	-0.65	-0.36	-0.23	-0.84	-0.48	-0.05	-0.38	-0.52	-0.31	-0.78	-0.57	-0.06
PSD11	9.64E-01	9.86E-01		-0.35	-0.23	-0.51	-0.64	-1.23	-0.31	-0.48	0.03	0.02	-0.61	-0.25	-0.53	-0.49	-0.33	-0.30	-1.03	-0.90	-0.39	-0.25	-0.44	-0.63	-0.56	-0.52	0.20
PRDX2	9.68E-01	9.87E-01		-0.05	0.18	0.41	-0.65	0.25	0.38	-1.05	0.23	-0.82	0.31	0.39	0.43	0.61	-0.85	0.26	0.38	0.38	-1.01	0.44	0.39	0.36	0.48	0.48	-0.14
ALDH2	9.81E-01	9.96E-01		0.40	0.00	0.21	-0.09	0.29	0.20	0.21	0.12	0.27	-0.12	0.43	0.56	0.51	0.45	0.46	-0.16	0.44	0.41	0.08	0.16	0.34	-0.84	0.55	1.34
KAP2	9.81E-01	9.96E-01		-0.08	0.65	-0.26	0.43	-0.18	0.56	0.38	-0.33	0.27	0.11	0.26	-0.68	0.12	0.17	0.04	0.93	-0.76	0.74	-0.50	1.29	-0.07	0.97	-0.03	-0.12
E41L1	9.90E-01	9.98E-01		-0.72	0.44	-0.05	-1.53	0.54	0.64	-1.76	0.09	-1.87	0.48	0.09	-0.44	0.27	-1.90	-0.46	0.50	-0.44	-0.55	0.54	-0.36	0.50	-0.29	-0.43	-0.62
GRP75	9.93E-01	9.98E-01		-0.12	-0.75	-0.22	-0.12	-0.30	-0.60	0.11	-0.53	0.79	-1.26	-0.79	-0.23	-0.28	0.39	-0.36	-0.70	-0.61	-0.02	-0.40	-0.38	-0.04	-0.30	-0.54	0.12
NFASC	9.93E-01	9.98E-01		1.41	1.13	1.51	0.87	1.24	1.74	1.48	0.28	1.50	1.47	0.79	1.20	1.09	1.38	1.37	1.19	1.07	1.47	1.20	0.99	1.32	1.80	1.40	0.82
RHOB	9.98E-01	9.98E-01		0.28	0.61	0.45	-0.49	0.18	0.41	-0.32	0.84	-0.61	0.36	0.40	0.39	0.91	-0.82	0.22	0.73	0.57	-0.59	0.28	0.51	0.29	0.32	0.19	-0.21
XPOT	9.95E-01	9.98E-01		0.79	0.14	0.94	0.42	0.76	0.12	0.65	0.72	0.89	0.55	0.29	0.44	1.22	0.11	0.01	0.39	1.05	0.61	0.57	0.07	0.08	0.29	1.13	0.47
CALM2	9.97E-01	9.98E-01		-0.10	-0.28	0.20	0.75	-0.01	0.26	0.33	0.21	0.39	0.23	0.03	-0.03	-0.20	0.68	0.30	-0.58	-0.10	1.04	-0.15	-0.13	0.10	-0.05	0.11	0.32

Reports the log2 homogenate protein levels for each sample as well as significance of the association between PMI and homogenate protein levels.

eTable 4. Mouse Synaptosome PMI

Name	pvalue	qvalue	Dropped From Human Analysis	0	0	0	0	6	6	6	6	12	12	12	12	18	18	18	18	24	24	24	24	30	30	30	30
HS12A	4.46E-10	8.72E-08	x	-0.99	-0.84	-0.42	-0.88	-0.58	-0.53	-0.68	-0.72	-0.11	-0.19	-0.27	-0.20	-0.18	-0.12	-0.30	-0.29	0.66	0.51	0.23	0.43	0.46	0.56	0.33	0.61
NSF	2.68E-08	2.62E-06		-0.10	-0.02	-0.15	-0.08	0.73	0.64	0.57	0.57	0.73	0.68	0.76	0.91	0.64	0.48	0.58	0.36	0.57	0.93	0.80	0.98	0.54	0.79	0.83	0.88
SEPT3	2.28E-07	1.79E-05		0.56	0.50	0.66	0.52	0.52	0.54	0.41	0.80	0.29	0.42	0.43	0.48	0.25	0.23	0.26	0.27	-0.06	-0.18	-0.01	0.05	0.09	-0.13	0.16	-0.15
KPCA	4.87E-07	3.18E-05	x	0.03	0.62	0.69	0.47	0.85	0.88	0.60	0.88	0.71	0.95	0.75	0.83	0.60	0.83	1.16	0.90	1.50	1.53	1.34	1.77	1.43	1.58	1.90	1.86
EAA2	1.48E-06	7.07E-05		1.81	1.72	1.89	1.80	2.07	1.91	1.81	2.20	1.97	1.99	2.11	2.00	1.99	2.04	2.04	1.97	1.58	1.52	1.62	1.62	1.69	1.52	1.32	1.29
VATE1	5.53E-06	1.64E-04		0.40	0.40	0.50	0.39	0.84	0.68	0.61	0.81	0.58	0.82	0.88	0.91	0.77	0.65	0.79	0.64	0.91	0.83	0.87	1.05	0.99	0.95	1.01	0.85
SRCN1	1.44E-05	2.96E-04		0.88	1.45	0.75	0.91	0.96	0.96	0.81	0.54	0.44	0.87	0.36	0.98	0.50	0.60	0.62	0.68	-0.12	0.46	0.37	-0.04	-0.03	-0.33	-0.17	-0.16
RUFY3	2.35E-05	4.38E-04		-0.66	-0.99	-0.34	-0.64	-0.18	-0.14	-0.16	-0.32	0.20	-0.10	0.03	-0.11	0.08	0.13	-0.02	-0.40	0.10	0.58	0.17	0.28	0.05	0.41	0.23	0.24
SEPT5	1.18E-04	1.44E-03		0.68	0.72	0.89	0.88	0.79	0.70	0.66	1.11	0.65	0.66	0.65	0.94	0.55	0.54	0.59	0.59	0.36	0.21	0.43	0.38	0.47	0.42	0.56	0.37
VAPA	1.36E-04	1.56E-03		0.50	0.37	0.15	0.28	0.00	0.20	0.04	-0.28	-0.12	-0.24	-0.47	-0.36	0.05	-0.09	0.12	-0.12	-0.41	-0.54	-1.03	-0.48	0.00	-0.90	-0.70	-0.65
GPDM	1.50E-04	1.68E-03		0.89	0.88	0.80	0.94	1.11	0.96	1.04	0.92	1.07	1.03	1.02	0.81	1.03	0.82	1.13	1.13	0.64	0.96	0.82	0.78	0.26	0.44	0.62	0.69
HOME1	2.03E-04	2.15E-03		0.59	1.05	1.14	1.03	0.50	0.93	0.88	0.30	0.48	-0.07	0.13	0.07	0.19	0.38	0.36	0.39	-0.35	-0.26	-0.19	-0.50	0.72	-0.34	-0.55	-0.74
SYN1	2.35E-04	2.24E-03	x	0.31	0.13	0.29	0.32	0.34	0.39	0.26	0.51	0.42	0.44	0.49	0.53	0.50	0.35	0.49	0.46	0.28	-0.13	0.03	-0.02	0.29	-0.11	0.08	-0.29
KCC2A	3.23E-04	2.69E-03		0.72	1.02	1.19	1.10	0.42	0.78	0.60	0.44	1.03	0.83	0.71	0.68	0.60	0.68	0.90	0.32	1.14	1.37	0.81	1.19	1.15	1.21	1.20	1.31
PRS6A	3.39E-04	2.76E-03		-1.01	-1.35	-1.13	-1.24	-1.21	-1.18	-1.06	-1.08	-0.67	-0.99	-0.80	-0.79	-0.49	-0.85	-1.12	-0.96	-0.52	-0.60	-0.72	-0.54	-0.97	-0.56	-0.49	-0.58
AAKG2	8.30E-04	5.80E-03		-0.32	-0.63	0.03	-0.18	-0.02	-0.24	-0.14	-0.15	0.16	0.05	0.17	0.10	0.05	0.25	-0.08	0.17	0.45	0.26	0.20	0.54	0.48	0.01	0.16	0.07
C2C2L	8.23E-04	5.80E-03		0.48	0.48	0.28	0.50	0.67	0.73	0.56	0.78	0.84	0.69	0.83	0.78	0.82	0.75	0.77	0.85	0.57	0.95	0.94	1.08	0.70	0.78	1.01	0.90
DYN2	8.19E-04	5.80E-03		-0.64	-0.52	-0.51	-0.53	-0.40	-0.39	-0.59	-0.26	-0.84	-0.56	-0.75	-0.59	-0.59	-0.62	-0.39	-0.62	-0.77	-0.96	-0.84	-0.85	-0.61	-0.92	-0.58	-0.78
KCC2B	8.03E-04	5.80E-03		0.56	0.88	0.70	0.82	0.23	0.51	0.48	0.26	0.80	0.56	0.49	0.53	0.36	0.44	0.59	0.24	0.63	0.86	0.57	0.72	0.71	0.75	0.85	0.98
VATC1	1.24E-03	8.24E-03		0.13	0.14	-0.13	0.03	0.26	0.48	0.31	0.31	0.40	0.50	0.32	0.42	0.51	0.49	0.71	0.20	0.22	0.38	0.44	0.47	0.45	0.37	0.44	0.59

GNAQ	1.26E-03	8.24E-03		0.90	0.99	0.75	0.94	0.97	0.80	0.79	1.01	0.64	0.78	0.84	0.81	0.75	0.86	0.66	0.67	0.43	0.59	0.48	0.73	0.66	0.60	0.56	0.78
IP3KA	1.36E-03	8.63E-03		-1.00	-1.11	-1.19	-0.78	-1.16	-0.82	-1.77	-1.21	-0.84	-1.04	-0.80	-0.85	-0.49	-0.73	-0.36	-0.53	-0.94	-0.37	-0.67	-0.80	-0.65	-0.56	-0.30	-0.60
PHB2	1.67E-03	9.88E-03		1.53	1.58	1.45	1.35	1.36	1.51	1.63	1.27	1.45	1.32	1.52	1.10	1.53	1.34	1.34	1.58	1.21	1.44	1.10	1.13	1.08	1.10	0.86	1.06
CTNB1	1.72E-03	9.97E-03		0.61	0.81	0.04	0.76	0.38	0.40	0.31	0.09	0.41	0.22	0.07	0.24	0.55	0.36	0.36	0.34	-0.36	0.07	0.19	0.03	0.03	-0.38	-0.56	0.01
DLG4	1.73E-03	9.97E-03		0.52	0.87	0.91	1.04	0.25	0.68	0.57	0.15	0.70	0.05	0.17	0.28	0.29	0.36	0.04	0.23	0.29	0.10	0.11	0.04	0.43	-0.04	-0.18	-0.43
DMXL2	2.11E-03	1.15E-02		-0.55	-0.46	-1.14	-0.64	-0.19	-0.78	-0.40	-0.22	-0.10	-0.42	0.10	-0.56	-0.76	-0.22	-0.26	0.01	-0.40	0.12	0.02	0.41	-0.04	0.42	0.99	0.51
UBP5	2.15E-03	1.15E-02		-0.93	-0.96	-0.96	-1.01	-0.51	-0.79	-0.49	-0.81	-0.67	-0.72	-0.72	-0.52	-0.87	-0.68	-0.87	-0.67	-0.79	-0.61	-0.55	-0.51	-0.70	-0.68	-0.57	-0.55
VATA	2.29E-03	1.18E-02		0.21	0.23	0.07	0.24	0.67	0.68	0.46	0.74	0.47	0.85	0.76	0.79	0.68	0.28	0.69	0.43	0.45	0.73	0.77	0.93	0.48	0.67	1.04	0.79
KPCE	2.37E-03	1.20E-02		-0.69	-0.74	-0.97	-0.68	-0.58	-0.75	-0.53	-0.52	-0.12	-0.42	-0.24	-0.26	-0.35	0.04	-0.36	-0.42	-0.56	-0.03	-0.22	-0.13	-0.59	-0.20	0.04	0.11
NRX1A	2.52E-03	1.26E-02		1.13	1.03	0.98	0.97	1.17	0.97	0.98	0.98	0.70	0.80	1.01	1.07	1.11	0.76	0.62	0.80	0.41	0.76	0.77	0.74	0.45	0.70	0.63	0.66
SEPT4	2.59E-03	1.28E-02		0.68	0.67	1.07	0.94	0.84	0.74	0.60	1.04	0.39	0.60	0.67	0.84	0.52	0.50	0.68	0.62	0.47	0.21	0.45	0.21	0.60	0.19	0.54	0.29
CO3	3.20E-03	1.49E-02		1.74	1.56	1.58	1.51	1.64	1.71	1.80	1.66	1.77	1.83	1.66	1.60	1.66	1.40	1.54	1.80	1.55	1.59	1.54	1.33	1.00	1.52	1.23	1.36
VATB2	3.34E-03	1.54E-02		0.24	0.15	-0.27	0.04	0.61	0.46	0.34	0.48	0.29	0.59	0.66	0.72	0.61	0.32	0.50	0.29	0.16	0.68	0.65	0.77	0.50	0.67	0.91	0.69
ANK2	4.00E-03	1.66E-02		0.33	0.64	0.49	0.52	0.09	0.37	0.22	0.47	0.15	0.19	0.14	0.27	0.18	0.05	0.20	0.17	0.27	0.03	0.26	0.15	0.35	0.08	-0.02	0.05
ATPA	3.85E-03	1.66E-02		1.38	1.42	1.09	1.25	1.07	1.30	1.48	1.13	1.41	1.20	1.16	0.88	1.08	0.96	1.09	1.44	0.75	1.21	0.97	0.83	0.53	0.83	0.68	0.84
EGFR	3.93E-03	1.66E-02		0.39	0.39	0.31	0.26	0.16	0.32	0.49	0.12	0.40	0.30	0.30	0.08	0.31	0.29	0.18	0.45	0.28	0.19	-0.06	-0.13	-0.03	0.10	-0.32	-0.13
VATH	3.84E-03	1.66E-02		0.25	0.22	0.04	0.33	0.55	0.64	0.37	0.68	0.54	0.75	0.71	0.80	0.63	0.35	0.60	0.33	0.35	0.73	0.72	0.99	0.50	0.64	0.96	0.83
NDUV1	4.28E-03	1.76E-02		1.49	1.50	1.40	1.38	1.24	1.43	1.62	1.34	1.50	1.38	1.52	1.05	1.28	1.08	1.23	1.60	1.09	1.29	1.18	1.05	0.91	1.10	0.77	1.02
VDAC1	4.49E-03	1.83E-02		1.67	1.62	1.48	1.50	1.50	1.67	1.75	1.55	1.70	1.64	1.56	1.37	1.54	1.36	1.54	1.66	1.13	1.58	1.36	1.33	0.84	1.33	1.17	1.32
MPCP	4.58E-03	1.85E-02		1.58	1.57	1.49	1.54	1.39	1.56	1.78	1.27	1.61	1.57	1.45	1.18	1.37	1.22	1.47	1.59	1.11	1.42	1.20	1.08	0.82	1.20	0.95	1.23
NBEA	5.25E-03	2.05E-02		-0.47	-0.33	-0.78	-0.13	-0.52	-0.34	-0.09	-0.45	0.12	-0.39	-0.24	-0.02	0.15	-0.19	-0.36	-0.14	-0.38	0.28	0.17	0.31	0.07	0.23	0.60	0.31
ANK1	5.33E-03	2.06E-02		0.43	0.75	0.87	0.68	0.30	0.40	0.20	0.43	0.31	0.55	0.54	0.56	0.46	0.29	0.38	0.42	0.71	0.53	0.47	0.62	1.00	0.57	0.64	0.63
NLGN2	6.58E-03	2.47E-02		1.03	1.32	0.80	1.13	0.95	1.00	0.73	0.81	1.07	0.94	0.45	0.61	0.78	0.53	0.79	0.39	-0.25	0.61	0.67	0.54	0.52	0.32	-0.06	0.43
CKAP4	6.93E-03	2.58E-02		1.27	1.41	1.07	1.23	1.06	1.35	1.54	1.25	1.39	1.28	1.16	0.84	1.14	0.91	1.19	1.47	0.88	1.23	0.90	0.67	0.47	0.82	0.71	0.88
CNTN1	8.23E-03	2.93E-02		0.99	0.97	1.18	0.98	1.10	1.01	0.83	0.92	0.84	0.92	1.12	1.21	1.14	1.09	1.02	0.91	1.44	1.14	1.20	1.22	1.36	1.30	1.27	1.13
RP3A	8.18E-03	2.93E-02		0.37	0.41	0.35	0.25	0.44	0.61	0.48	0.41	0.32	0.35	0.54	0.21	0.32	0.51	0.57	0.37	0.28	-0.26	0.13	0.22	0.31	0.25	0.12	-0.04
VDAC3	8.32E-03	2.93E-02		1.79	1.74	1.60	1.60	1.63	1.72	1.88	1.68	1.74	1.72	1.69	1.42	1.61	1.42	1.69	1.80	1.46	1.69	1.47	1.38	1.26	1.48	1.27	1.44
KAD4	8.46E-03	2.95E-02		0.31	0.38	0.47	0.36	0.09	0.67	-0.08	0.37	-0.16	0.39	0.02	0.12	-0.16	-0.49	-0.26	0.20	0.02	-0.36	-0.22	-0.48	-0.56	0.03	-0.10	0.02
2A5D	8.73E-03	2.97E-02	x	-0.71	-0.53	-0.39	-0.63	-0.72	-0.65	-0.72	-0.59	-0.72	-1.08	-0.54	-0.79	-1.01	-1.04	-0.71	-0.83	-0.22	-0.43	-0.64	-0.60	-0.16	-0.41	-0.19	-0.74
CMC1	9.25E-03	3.12E-02		1.76	1.75	1.61	1.70	1.58	1.73	1.89	1.76	1.86	1.69	1.68	1.39	1.59	1.42	1.66	1.87	1.24	1.68	1.50	1.41	0.98	1.40	1.38	1.38
GRIA2	1.09E-02	3.62E-02		1.18	1.37	1.09	1.13	1.23	1.35	1.11	1.12	1.39	1.35	1.48	1.25	1.31	1.28	1.36	1.24	1.15	1.59	1.56	1.45	1.52	1.49	1.43	1.46
SDHB	1.24E-02	3.94E-02		1.40	1.32	1.00	1.31	1.09	1.29	1.35	0.97	1.27	1.14	1.12	0.93	1.09	0.84	0.97	1.28	0.60	1.23	0.88	0.87	0.34	0.72	0.64	1.02
SRC	1.26E-02	3.98E-02		0.42	0.28	0.26	0.43	0.28	0.31	0.42	0.06	0.47	0.42	0.22	0.41	0.19	0.68	0.09	0.28	0.01	-0.05	0.00	0.24	0.03	-0.07	0.14	0.06
AT1A1	1.30E-02	4.05E-02		0.99	1.10	1.08	0.91	1.27	1.17	1.00	1.05	1.04	1.13	1.29	1.42	1.36	1.21	1.24	1.06	1.26	1.25	1.45	1.43	1.54	1.19	1.35	1.31
ADT1	1.44E-02	4.39E-02		1.63	1.65	1.50	1.44	1.38	1.56	1.77	1.41	1.69	1.51	1.53	1.19	1.44	1.32	1.50	1.77	1.19	1.56	1.29	1.24	0.84	1.22	1.04	1.29
SPTB1	1.46E-02	4.42E-02		-0.03	0.39	0.38	0.11	-0.47	-0.20	-0.10	-0.54	-0.10	-0.08	-0.38	-0.30	0.00	-0.30	-0.37	-0.28	-0.12	-0.26	-0.44	-0.34	0.14	-0.37	-0.43	-0.61
CNTP1	1.53E-02	4.58E-02		0.32	0.35	0.41	0.44	0.27	0.40	0.30	0.40	0.06	0.46	0.17	0.43	0.38	0.44	0.47	0.18	0.63	0.34	0.49	0.42	0.87	0.54	0.96	0.44
VAPB	1.53E-02	4.58E-02		0.25	0.51	0.70	0.09	0.10	0.44	0.08	0.51	0.01	0.22	-0.59	0.16	-0.10	0.41	-0.68	0.04	0.35	-0.04	-1.40	-1.21	-0.23	-0.74	-1.16	-1.13
PTPRS	1.56E-02	4.62E-02		1.76	1.57	1.39	1.42	1.48	1.57	1.72	1.50	1.75	1.55	1.60	1.33	1.56	1.36	1.61	1.67	1.18	1.59	1.39	1.42	0.80	1.32	1.16	1.30
ATLA1	1.70E-02	4.89E-02		-0.03	-0.04	0.46	0.13	-0.14	-0.18	-0.02	0.41	0.35	0.34	0.48	0.39	0.26	0.20	-0.11	0.15	0.89	0.20	0.38	0.43	0.80	0.76	0.29	0.37
VATD	1.70E-02	4.89E-02		0.33	0.36	0.19	0.25	0.86	0.70	0.49	0.77	0.48	0.98	0.84	0.91	0.88	0.46	0.88	0.58	0.49	0.79	1.04	1.08	0.39	0.88	1.01	0.85
GBRA1	2.39E-02	6.63E-02		1.24	1.43	1.31	1.30	1.30	1.70	1.57	1.71	1.18	1.30	1.52	1.33	1.67	1.36	1.11	1.34	0.95	1.03	1.05	1.17	1.44	1.44	0.88	1.35
BAIP2	2.68E-02	7.34E-02		0.74	0.97	0.63	0.83	0.67	0.74	0.81	0.98	0.88	0.30	0.53	0.50	0.59	1.16	0.50	0.79	0.12	0.73	0.47	0.31	0.10	0.18	0.48	0.59
GHC1	2.77E-02	7.51E-02		1.43	1.45	1.00	1.25	1.48	1.27	1.37	0.96	1.55	1.29	1.03	0.91	1.38	1.30	1.05	1.47	0.28	1.09	1.27	0.84	0.27	0.96	0.83	0.72

NOS1	3.77E-02	9.90E-02		-0.16	-0.16	0.04	-0.34	-0.38	-0.32	0.00	-0.66	-0.17	-1.22	-1.13	-0.69	-0.32	-0.56	-0.63	-0.89	-0.15	-1.64	-1.67	-0.88	-0.42	-1.00	-1.96	-1.33
OGDHL	3.80E-02	9.90E-02		1.05	0.74	0.81	0.92	0.58	0.76	1.05	0.36	0.80	0.54	0.53	0.49	0.73	0.37	1.01	1.06	0.69	0.81	0.68	0.42	0.14	0.53	0.20	0.45
GBRB3	4.11E-02	1.06E-01		1.19	1.29	1.46	1.28	1.60	1.16	1.47	1.46	1.36	1.57	1.42	1.50	1.57	1.41	1.73	1.20	2.02	1.55	1.66	1.63	1.63	2.56	1.58	1.74
SC6A1	4.41E-02	1.12E-01		0.99	0.89	0.79	0.97	1.14	1.15	1.25	1.16	1.07	1.19	1.13	1.24	1.18	1.12	1.17	0.93	0.87	1.31	1.12	1.25	1.13	1.15	1.05	1.32
MARE2	4.52E-02	1.13E-01		-1.22	-1.09	-0.14	-1.08	-0.89	-0.86	-0.86	-0.88	-0.50	-0.91	-0.83	-0.78	-0.67	-0.43	-0.50	-0.51	0.50	-0.34	-0.67	-0.60	0.26	-0.10	-0.59	-0.47
CACB4	4.60E-02	1.14E-01		0.76	1.03	0.80	0.99	0.91	0.99	0.78	1.20	1.14	1.18	1.19	1.10	1.03	0.82	0.98	0.75	0.75	1.21	1.26	1.37	1.14	1.18	1.29	1.09
BDH	5.81E-02	1.39E-01		0.51	0.56	-0.12	0.28	0.10	0.24	0.58	-0.15	0.49	-0.04	0.22	-0.15	0.30	0.32	0.27	0.42	-0.80	0.42	0.27	-0.09	-1.02	-0.24	-0.47	-0.03
GDAP1	5.88E-02	1.40E-01		1.72	1.57	1.42	1.76	1.64	1.68	1.53	1.39	1.66	2.00	1.69	1.59	1.34	1.51	1.30	1.68	1.35	1.46	1.62	0.73	1.26	1.50	0.88	1.36
ANK3	6.26E-02	1.47E-01		-0.85	-1.38	-1.22	-1.64	-1.17	-1.03	-0.97	-1.32	-0.77	-1.30	-0.56	-0.95	-0.79	-0.77	-1.04	-0.98	-1.58	-1.24	-1.08	-1.35	-0.94	-0.90	-0.95	-1.19
NAC1	6.35E-02	1.48E-01		0.92	1.37	1.00	1.19	1.38	1.09	1.15	1.24	1.04	1.37	1.37	1.41	1.15	1.07	1.62	0.87	1.19	1.24	1.33	1.47	1.63	1.36	1.85	1.49
AP2M1	6.48E-02	1.50E-01		0.10	0.16	-0.08	0.10	0.07	0.11	-0.01	0.41	0.09	0.36	0.26	0.46	0.23	-0.06	0.16	0.08	0.13	0.23	0.40	0.52	0.18	0.44	0.70	0.28
4F2	6.77E-02	1.51E-01		1.34	1.34	1.58	1.32	1.54	1.38	1.35	1.53	1.29	1.52	1.55	1.61	1.58	1.36	1.51	1.37	2.07	1.55	1.50	1.62	1.48	2.04	1.78	1.62
NFASC	6.76E-02	1.51E-01		1.02	1.11	1.44	1.21	1.17	1.20	0.98	1.27	0.87	1.22	1.28	1.47	1.60	1.36	1.12	1.03	1.46	1.25	1.65	1.34	1.66	1.55	1.52	1.42
CKAP5	7.53E-02	1.63E-01		0.82	0.32	0.03	0.18	0.96	0.34	0.60	0.80	0.37	0.41	0.53	0.46	0.74	1.16	0.62	0.72	0.16	0.53	0.39	0.67	0.72	0.66	1.15	0.48
CXA1	7.51E-02	1.63E-01		1.92	1.27	1.63	1.58	1.99	1.70	1.80	1.46	2.71	1.80	1.86	1.58	2.32	1.96	2.24	1.78	1.97	2.13	1.59	1.56	1.73	2.45	2.70	2.44
VDAC2	7.55E-02	1.63E-01		1.66	1.65	1.61	1.48	1.45	1.64	1.75	1.57	1.69	1.52	1.54	1.36	1.51	1.31	1.52	1.67	1.56	1.58	1.34	1.34	1.31	1.51	1.21	1.32
GBRB1	7.70E-02	1.64E-01		1.55	1.59	1.42	1.59	1.61	1.56	1.34	1.28	1.40	1.57	1.51	1.22	1.44	1.26	1.71	1.46	1.52	1.53	1.63	1.53	1.63	2.22	1.64	1.66
L1CAM	7.93E-02	1.68E-01		0.63	1.04	0.62	0.82	0.74	0.61	0.58	0.68	-0.06	0.35	0.53	0.49	0.72	0.32	1.06	0.64	0.46	0.43	0.55	0.41	0.55	0.63	0.80	0.28
M2OM	8.48E-02	1.76E-01		1.60	1.54	1.25	1.46	1.35	1.51	1.78	1.48	1.55	1.48	1.46	1.16	1.45	1.26	1.13	1.69	1.26	1.45	1.21	1.16	0.85	1.35	0.92	1.34
FLOT1	8.97E-02	1.81E-01		1.76	1.29	1.59	1.65	1.79	1.36	1.81	1.61	1.49	1.42	1.23	1.85	1.77	1.48	1.75	1.66	1.85	1.98	1.29	2.15	3.39	1.94	1.86	1.95
SNP25	9.75E-02	1.94E-01		0.93	0.56	0.84	0.61	1.03	1.24	1.19	1.19	1.12	1.29	1.01	1.86	1.28	0.73	1.05	0.84	2.56	0.92	0.89	1.91	1.98	1.02	1.23	1.76
DYN1	9.89E-02	1.94E-01		-0.96	-0.64	-0.55	-0.48	-0.65	-0.57	-0.65	-0.33	-0.91	-0.52	-0.93	-0.89	-0.98	-1.18	-0.62	-0.96	-0.57	-1.21	-0.91	-0.89	-0.77	-0.96	-0.93	-0.71
HXK1	1.03E-01	1.99E-01		1.69	1.39	1.49	1.60	1.62	1.63	1.82	1.56	1.73	1.54	1.59	1.53	1.59	1.39	1.58	1.72	1.54	1.65	1.44	1.43	1.18	1.59	1.36	1.38
NDUAA	1.06E-01	2.04E-01		1.69	1.77	1.58	1.58	1.30	1.50	1.86	1.57	1.69	1.52	1.44	1.08	1.45	1.37	1.49	1.89	1.37	1.58	1.23	1.08	1.33	1.52	0.98	1.13
GLPK	1.08E-01	2.06E-01		0.98	0.99	0.96	1.18	1.05	1.25	1.33	0.64	1.39	0.85	0.84	0.59	1.17	1.06	0.86	1.22	0.09	1.17	0.72	0.60	0.06	0.64	0.53	0.98
NRX3A	1.10E-01	2.10E-01		1.03	0.97	1.08	1.21	1.03	0.76	0.94	1.14	0.73	0.87	1.18	1.06	1.20	0.90	1.03	0.90	-0.35	0.76	0.84	0.64	1.23	0.29	0.89	0.64
KCC2D	1.16E-01	2.16E-01		0.47	0.65	0.79	0.92	0.43	0.60	0.43	0.31	0.68	0.61	0.47	0.29	0.35	0.47	0.59	0.23	0.53	0.68	0.27	0.51	0.50	0.44	0.06	0.42
CPNE6	1.20E-01	2.22E-01		0.82	0.65	0.52	0.65	0.90	0.66	0.93	1.04	0.62	0.92	1.23	0.76	0.73	1.15	1.05	0.76	0.84	1.05	1.13	1.16	0.93	0.72	0.88	0.84
GRIA3	1.20E-01	2.22E-01		1.32	1.61	1.78	1.80	1.59	1.54	1.55	1.68	1.92	1.66	1.75	1.68	1.63	1.21	1.70	1.57	2.00	1.71	1.67	1.88	2.07	2.06	1.70	1.58
CDK5	1.25E-01	2.27E-01		-0.15	-0.61	-0.40	-0.53	-0.44	-0.13	-0.47	-0.58	-0.28	-0.53	-0.25	-0.34	-0.26	-0.21	-0.79	-0.34	-0.37	-0.12	-0.13	-0.16	0.03	0.01	-0.13	-0.34
ABR	1.36E-01	2.42E-01		-0.64	-1.03	-0.33	-0.49	-0.30	-0.59	0.09	-0.35	0.05	-0.28	-0.89	-0.08	-0.50	-0.13	-0.25	-0.83	-0.21	0.10	-0.28	-0.43	-0.08	-0.02	0.01	-0.07
SV2A	1.41E-01	2.49E-01		0.63	0.46	0.62	0.68	0.95	0.78	0.64	0.83	0.65	0.98	0.57	0.93	0.75	0.51	0.75	0.34	0.49	0.86	0.68	0.92	0.86	0.77	0.80	0.98
RTN1	1.52E-01	2.65E-01		0.42	0.36	0.31	0.39	0.38	0.42	0.35	0.55	0.32	0.71	0.60	0.70	0.53	0.10	0.59	0.37	0.50	0.34	0.44	0.68	0.64	0.58	0.70	0.48
VPP1	1.53E-01	2.65E-01		1.04	1.00	1.05	1.00	1.28	1.34	1.02	1.33	1.03	1.30	1.31	1.39	1.21	0.97	1.31	1.17	0.89	1.27	1.28	1.52	1.24	1.33	1.70	1.25
ADT3	1.57E-01	2.69E-01		1.27	1.13	1.37	1.09	0.87	1.13	1.44	0.75	1.27	1.10	0.86	0.77	0.96	0.92	1.23	1.13	1.07	1.17	0.67	0.73	0.80	0.93	0.33	0.92
VGLU1	1.75E-01	2.92E-01		0.74	0.89	0.63	0.95	1.17	1.00	0.65	1.26	0.92	1.13	1.11	1.40	1.19	0.81	1.08	0.86	0.87	1.14	1.30	1.09	1.01	1.07	1.33	1.06
RHG01	1.90E-01	3.08E-01		-0.77	-0.84	-0.59	-1.03	-1.03	-0.82	-0.64	-0.72	-0.63	-0.46	-0.90	-0.86	-0.98	-0.94	-0.58	-0.86	-0.36	-0.44	-0.68	-0.53	-1.04	-0.65	-0.48	-0.45
SPTA1	1.92E-01	3.09E-01		0.58	0.59	0.26	0.14	0.88	0.61	0.50	0.39	0.71	0.24	0.67	0.62	0.81	0.98	0.48	0.94	0.23	0.56	0.59	0.68	0.84	0.83	0.36	0.66
GNAZ	2.01E-01	3.16E-01		0.65	0.72	0.86	0.88	1.03	0.90	0.82	1.16	0.39	0.95	0.85	1.05	0.80	0.45	1.06	0.56	0.43	0.39	0.71	0.84	0.65	0.75	0.79	0.46
NCAM2	2.17E-01	3.37E-01		0.89	0.89	1.13	0.91	0.97	1.00	0.89	1.23	0.55	0.98	1.01	0.94	0.97	0.90	1.08	0.81	1.37	1.01	1.06	1.16	1.74	1.10	1.10	0.88
S4A4	2.23E-01	3.44E-01		1.19	1.02	0.58	1.02	1.44	1.15	1.45	1.17	1.29	1.18	1.23	1.21	1.46	1.26	1.20	1.17	0.67	1.34	1.04	1.18	0.59	1.03	1.18	1.40
ITPR1	2.24E-01	3.44E-01		-0.54	-0.35	-0.98	-0.34	-0.23	-0.28	0.08	-0.34	0.17	-0.23	0.01	-0.27	-0.27	0.01	-0.53	-0.13	-0.64	-0.13	-0.13	-0.19	0.05	-0.06	-0.42	-0.61
AT2B1	2.28E-01	3.46E-01		0.87	1.21	1.14	1.18	1.36	1.20	0.91	1.21	0.95	1.39	1.40	1.45	1.24	0.94	1.23	0.96	1.01	1.30	1.36	1.48	1.34	1.31	1.46	1.29
DIRA2	2.33E-01	3.48E-01		0.07	-0.07	-0.15	-0.05	-0.04	-0.11	-0.13	0.09	0.07	-0.04	0.14	0.04	0.04	0.20	-0.01	-0.04	-0.06	0.08	0.07	0.01	0.00	0.01	0.23	0.10

GPM6A	2.42E-01	3.60E-01		1.07	1.25	1.31	1.24	1.42	1.35	1.01	1.42	0.79	1.33	1.31	1.47	1.27	0.92	1.29	0.91	1.12	1.25	1.40	1.44	1.68	1.36	1.59	1.25
NEGR1	2.61E-01	3.87E-01		0.77	1.07	1.21	1.13	1.41	1.18	0.84	1.14	1.01	0.99	1.33	1.41	1.23	1.05	0.83	1.03	1.11	1.13	1.28	1.52	1.80	1.41	1.27	1.06
NCPR	2.64E-01	3.90E-01		-0.43	0.21	-0.38	0.36	0.30	0.00	0.52	-0.12	0.25	0.75	-0.06	0.23	0.31	0.03	0.91	0.28	-0.09	0.50	0.23	0.41	-0.63	-0.30	0.28	0.08
STX1B	2.93E-01	4.18E-01		1.17	1.13	1.31	1.28	1.53	1.42	1.24	1.56	1.02	1.50	1.39	1.51	1.39	1.08	1.47	1.03	1.36	1.22	1.34	1.51	1.50	1.29	1.56	1.44
GRM3	2.96E-01	4.21E-01		1.75	1.90	1.78	1.95	2.15	2.09	1.73	2.11	1.92	2.03	2.36	2.29	2.09	1.91	1.76	1.83	1.56	2.17	2.10	2.44	1.75	2.32	2.48	2.24
CLAP2	3.08E-01	4.30E-01		-0.03	0.34	-0.03	0.10	-0.07	-0.38	0.24	-0.41	0.16	0.22	0.02	-0.13	-0.17	0.35	0.15	-0.11	-0.09	0.07	-0.37	-0.11	-0.27	-0.10	-0.26	0.04
AAK1	3.20E-01	4.44E-01		0.85	0.98	0.69	0.96	0.98	0.77	1.01	0.89	0.88	1.28	0.89	0.92	0.93	0.76	1.26	0.89	0.47	1.18	0.81	0.61	0.86	0.74	0.63	0.68
CACB3	3.21E-01	4.44E-01		1.31	1.04	1.08	1.30	1.30	1.25	0.81	0.76	1.01	1.28	1.57	1.14	1.23	0.91	0.92	0.61	0.72	1.16	1.04	1.45	1.49	1.24	1.10	1.21
ANXA3	3.24E-01	4.45E-01		1.61	1.72	2.95	1.86	2.37	2.08	2.00	2.32	1.74	2.30	1.88	2.26	2.16	2.06	2.70	2.09	1.67	2.42	2.36	2.54	2.31	2.69	2.93	2.46
AOFB	3.29E-01	4.49E-01		1.80	1.33	1.73	1.16	1.36	1.32	1.41	1.12	1.67	1.39	1.38	1.27	1.60	1.28	1.22	1.41	1.84	1.49	1.08	1.53	1.65	0.82	0.38	1.30
OPA1	3.32E-01	4.50E-01		1.94	1.62	1.84	1.99	1.83	1.94	2.04	1.64	1.93	1.85	1.76	2.00	2.10	1.87	2.08	2.18	2.11	1.78	1.59	1.74	1.92	1.77	2.06	1.77
SAR1B	3.50E-01	4.70E-01		-0.10	-0.21	-0.27	-0.41	-0.70	-0.29	-0.19	-0.84	-0.20	-0.38	-0.13	-0.08	-0.16	0.20	-0.24	-0.49	-0.06	-0.09	-0.40	0.20	0.09	-0.13	-0.82	-0.53
KPCG	3.60E-01	4.75E-01		0.47	0.51	0.25	0.34	0.30	0.29	0.28	0.33	0.54	0.23	0.68	0.25	0.60	0.65	0.21	0.32	0.01	0.82	0.92	0.93	0.27	0.57	0.68	0.71
RHOB	3.71E-01	4.87E-01		0.73	0.70	0.82	0.72	0.80	0.78	0.55	0.75	0.49	0.77	0.61	0.74	0.81	0.85	0.90	0.51	0.64	0.61	0.68	0.76	0.72	0.51	0.51	0.68
TFR1	3.74E-01	4.89E-01		0.32	0.30	0.45	0.45	0.41	0.43	0.36	0.63	0.25	0.68	0.48	0.63	0.46	0.10	0.55	0.39	0.33	0.26	0.38	0.54	0.55	0.45	0.69	0.50
GBB1	3.85E-01	5.00E-01		0.90	0.98	1.15	0.97	1.18	1.00	0.88	1.19	0.75	1.08	1.14	1.24	1.07	0.96	1.14	0.89	1.20	1.01	1.14	1.21	1.39	1.10	1.26	1.04
GRM2	3.85E-01	5.00E-01		1.56	1.82	1.69	1.79	1.90	1.81	1.59	2.03	1.72	1.84	2.04	2.27	2.06	1.77	1.80	1.74	1.73	1.94	2.24	2.03	1.54	2.12	2.30	2.07
GRIA1	3.86E-01	5.00E-01		1.18	1.15	1.07	1.27	1.80	1.45	1.10	0.82	1.55	1.58	1.81	1.49	1.20	1.12	1.64	1.31	1.04	1.98	1.42	1.32	1.02	1.49	1.54	1.56
ATPO	4.12E-01	5.20E-01		-0.10	0.22	0.06	0.02	0.00	0.13	-0.02	0.02	0.02	0.03	-0.07	-0.16	-0.13	0.07	0.08	0.10	0.21	-0.03	0.12	-0.23	-0.22	0.11	-0.07	-0.44
NCAN	4.22E-01	5.31E-01		-0.03	0.09	1.07	-0.16	0.56	0.27	0.08	-0.26	0.73	-0.17	0.10	0.75	0.26	0.38	-0.52	0.01	1.39	0.39	0.52	0.24	0.21	0.32	-0.25	-0.03
GNAO	4.27E-01	5.35E-01		1.14	1.30	1.50	1.28	1.39	1.34	1.07	1.48	1.06	1.31	1.47	1.56	1.36	1.12	1.26	1.09	1.32	1.21	1.45	1.51	1.70	1.41	1.51	1.25
GNAI1	4.39E-01	5.45E-01		0.90	0.91	1.00	0.99	1.13	0.89	0.77	0.88	0.83	1.05	1.03	1.08	0.94	1.04	1.09	0.90	0.96	0.91	1.06	0.96	0.99	1.06	1.26	0.99
VGLU2	4.47E-01	5.48E-01		0.68	0.44	0.00	0.30	0.58	0.39	-0.02	0.50	0.20	0.54	0.09	0.44	0.51	0.21	-0.77	-0.18	-0.09	0.13	1.04	0.51	0.57	0.62	1.08	-0.10
FLOT2	4.78E-01	5.73E-01		0.79	0.58	0.77	0.44	0.50	0.62	0.52	0.31	0.37	0.94	0.51	0.87	0.78	0.74	0.42	0.87	0.87	0.60	0.94	0.84	1.89	0.75	0.99	0.23
EF1A1	4.94E-01	5.83E-01		-0.10	-0.20	-0.71	-0.39	-0.23	-0.26	-0.20	-0.47	-0.05	-0.44	-0.35	-0.31	-0.11	-0.01	-0.33	-0.18	-0.79	-0.01	-0.33	-0.21	-0.57	-0.50	-0.55	-0.25
STX1A	5.02E-01	5.91E-01		1.26	1.32	1.85	1.44	1.61	1.53	1.13	1.86	1.22	1.59	1.57	1.75	1.53	1.15	1.63	1.24	1.83	1.33	1.49	1.71	2.27	1.71	1.75	1.37
KCNA1	5.03E-01	5.91E-01		0.88	1.18	1.09	1.17	1.45	1.01	1.03	1.61	0.88	1.16	1.12	1.32	1.32	1.17	1.68	1.34	0.81	1.42	1.62	1.41	1.02	1.14	1.72	1.55
SYT2	5.09E-01	5.94E-01		0.56	0.73	0.59	0.75	0.91	0.83	0.68	0.92	0.59	0.72	0.79	0.87	0.83	0.56	0.92	0.50	0.58	0.63	0.71	0.81	0.67	0.51	0.83	0.78
XPOT	5.08E-01	5.94E-01		-0.66	-0.33	-0.31	-0.23	-0.42	-0.31	-0.50	-0.07	-0.77	-0.67	-0.44	-0.14	-0.71	-0.88	-0.25	-0.43	-0.79	-1.02	-0.45	-0.43	-0.76	-0.63	0.00	-0.63
NMDZ1	5.33E-01	6.18E-01		1.25	1.27	0.85	1.32	1.07	1.17	1.28	0.68	1.23	1.03	1.21	0.99	1.26	1.21	1.09	1.16	0.94	1.45	1.17	1.40	1.30	1.36	1.19	1.28
SYT1	5.41E-01	6.21E-01		1.04	1.17	1.23	1.16	1.43	1.35	1.07	1.40	0.97	1.35	1.33	1.46	1.24	1.09	1.30	0.97	1.12	1.12	1.29	1.24	1.35	1.07	1.37	1.17
EAA1	5.54E-01	6.31E-01		1.07	0.47	1.06	1.00	1.41	1.24	1.27	0.81	1.30	1.31	0.84	1.40	1.34	1.40	1.39	0.76	1.43	1.43	0.65	1.46	1.67	1.36	0.80	1.39
RGS7	5.73E-01	6.48E-01		1.05	0.90	1.07	1.10	0.93	1.08	0.80	1.19	0.84	1.25	0.88	1.07	1.30	0.78	1.24	0.75	0.90	0.50	0.93	1.14	0.97	1.24	1.23	1.14
SYN2	6.09E-01	6.83E-01		-0.05	0.02	0.03	0.02	-0.02	0.14	-0.05	0.21	-0.08	0.19	0.15	0.03	0.13	-0.01	0.09	0.03	0.15	-0.08	0.10	-0.07	0.05	-0.06	0.05	-0.22
GNAS2	6.23E-01	6.92E-01		1.06	0.68	0.86	0.73	1.21	0.57	0.50	0.79	0.62	0.66	0.69	0.87	0.78	1.12	0.93	0.71	0.96	0.90	0.79	0.94	0.59	0.73	0.81	0.86
CAP2	6.47E-01	7.12E-01		-0.96	-0.93	-0.32	-0.68	-0.89	-0.28	-0.97	-0.90	-0.53	-0.46	-1.02	-0.63	-0.84	-0.70	-0.45	-1.11	0.63	-0.90	-0.89	-0.92	-0.38	0.08	-0.36	-0.69
SYT7	6.97E-01	7.54E-01		0.52	0.43	0.29	0.82	0.84	0.77	0.75	0.41	0.57	1.14	0.47	0.81	0.86	0.37	1.05	0.55	0.76	0.89	0.60	1.04	0.61	0.26	0.83	1.02
AKA12	7.07E-01	7.63E-01		0.89	1.31	1.86	1.27	1.94	1.15	1.34	1.86	1.25	1.42	1.90	1.63	1.55	1.07	1.54	1.27	1.29	1.29	1.35	1.81	1.46	1.65	1.54	1.69
S12A5	7.20E-01	7.67E-01		0.84	1.10	0.92	0.99	1.21	1.17	1.01	0.94	0.99	1.22	1.12	1.35	1.17	0.89	1.00	0.78	0.53	1.24	1.11	1.27	0.67	1.17	1.37	1.26
GBRG2	7.58E-01	8.00E-01		1.04	1.00	0.53	0.63	0.95	0.91	1.09	0.29	0.84	1.54	0.92	0.93	0.74	1.22	1.05	0.99	0.76	1.14	0.77	1.24	1.07	1.55	0.08	0.05
QCR2	7.58E-01	8.00E-01		1.28	1.61	1.15	1.10	0.78	1.31	1.70	1.25	1.41	1.42	1.36	1.12	1.26	1.21	1.05	1.60	1.65	1.45	1.33	0.84	0.63	1.81	0.33	1.14
PRDX2	7.75E-01	8.15E-01		1.11	0.92	1.43	1.04	0.87	1.23	1.31	0.49	1.11	1.13	0.56	0.60	0.83	0.78	1.26	0.82	1.33	1.09	0.32	0.48	1.20	0.92	0.12	0.88
FARP1	7.91E-01	8.27E-01		0.39	0.53	0.49	0.20	-0.10	0.60	0.40	0.12	0.44	0.43	0.43	0.63	0.41	0.38	0.12	0.38	-0.12	0.54	0.41	0.49	0.15	0.53	0.70	0.16
AT1A3	8.11E-01	8.46E-01		0.98	1.07	0.89	1.04	1.35	1.17	1.07	1.19	0.92	1.21	1.10	1.23	1.26	1.10	1.31	0.97	0.54	1.20	1.23	1.28	0.76	1.02	1.36	1.31

CNTN2	8.35E-01	8.64E-01		0.73	0.75	1.34	1.25	0.56	0.63	0.77	1.10	0.63	0.41	0.52	1.27	0.52	1.35	0.70	0.45	1.63	0.66	0.59	0.94	1.51	0.76	0.35	1.03
NCAM1	8.38E-01	8.64E-01		0.93	1.07	0.89	0.89	1.27	1.04	0.90	1.07	0.67	0.99	1.04	1.23	1.10	0.91	1.13	0.87	0.86	1.01	1.13	1.17	1.28	0.96	1.16	0.89
AT1B1	8.61E-01	8.79E-01		0.98	1.10	0.78	1.03	1.31	1.11	1.01	1.28	0.93	1.21	1.12	1.32	1.16	1.03	1.28	0.92	0.47	1.19	1.21	1.34	0.71	1.04	1.35	1.33
B7Z1I4	8.77E-01	8.91E-01		1.04	1.15	1.06	1.22	1.21	1.06	0.96	1.29	1.00	1.16	1.25	1.50	1.33	1.17	1.16	0.90	0.82	1.16	1.40	1.42	1.23	1.14	1.49	1.14
E41L1	9.23E-01	9.28E-01		-1.17	-0.80	-0.34	-0.62	-0.37	-0.82	-0.72	-0.30	-0.50	-0.98	-0.44	-0.88	-0.48	-0.84	-1.10	-0.84	0.28	-0.97	-0.60	-1.08	0.05	-0.98	-0.47	-0.94

Reports the log 2 synaptosome protein levels for each sample as well as significance of the association between PMI and homogenate protein levels.

eTable 5. Monkey APD Homogenate

Haloperidol								Olanzapine							
ProName	control.ave	sz.ave	diff	FoldChange	statistic	pvalue	qvalue	ProName	control.ave	sz.ave	diff	FoldChange	statistic	pvalue	qvalue
DYN2	-0.12632549	-0.146373852	-0.020048362	0.986199645	-0.687566552	0.522313771	0.909986598	DYN2	-0.12632549	-0.219273162	-0.092947671	0.937605104	-6.224597365	0.001565215	0.328298723
DLGP2	-0.348451992	-0.328823022	0.01962897	1.013698745	0.321691711	0.760699734	0.949228553	DLGP2	-0.348451992	-0.067533038	0.280918954	1.214968537	5.562634925	0.002583266	0.328298723
NDUV1	0.56260416	0.521908166	-0.040695993	0.972185827	-1.137033985	0.30706206	0.902826709	NDUV1	0.56260416	0.327317351	-0.235286808	0.849516098	-5.551788847	0.002605545	0.328298723
KPCA	-0.07910623	0.365489315	0.444595545	1.36093253	2.263066763	0.073070438	0.902826709	KPCA	-0.07910623	0.467567549	0.546673778	1.460714045	4.942235358	0.004313746	0.361440481
KPCG	-2.036425375	-1.715613644	0.32081173	1.249033118	1.098357403	0.322102313	0.902826709	KPCG	-2.036425375	-1.397276121	0.639149253	1.557410495	4.824153196	0.004780959	0.361440481
PDE2A	-0.130400233	0.441583509	0.571983742	1.486566232	2.104919425	0.089194793	0.902826709	PDE2A	-0.130400233	0.527684699	0.658084932	1.577986576	4.446665164	0.00672311	0.423555958
DLGP4	-0.359359427	-0.441336412	-0.081976985	0.944762112	-1.575998472	0.175847915	0.902826709	DLGP4	-0.359359427	-0.560416347	-0.201056921	0.86991303	-4.240075911	0.00816901	0.441126531
GBRG2	-0.438506771	-0.190201221	0.24830555	1.187811207	0.761765078	0.48056793	0.902826709	GBRG2	-0.438506771	0.317664652	0.756171422	1.689002452	3.797514067	0.012660642	0.584389899
VDAC3	0.478443635	0.405980667	-0.072462967	0.951013043	-1.399985816	0.220407873	0.902826709	VDAC3	0.478443635	0.341071501	-0.137372133	0.909173706	-3.634210658	0.01499419	0.584389899
CDC42	1.040875882	1.001984655	-0.038891227	0.973402762	-0.513879693	0.629232358	0.930506741	CDC42	1.040875882	1.129980407	0.089104524	1.063709737	3.54373569	0.016496929	0.584389899
GBB1	1.091022297	1.115597929	0.024575632	1.017180445	0.666885767	0.534380397	0.917701402	GBB1	1.091022297	1.245198298	0.154176001	1.112785866	3.505281335	0.0171871	0.584389899
GNAQ	-0.662276214	-0.496381371	0.165894843	1.121861706	1.423873972	0.213779979	0.902826709	GNAQ	-0.662276214	-0.238271309	0.424004905	1.341646786	3.434155969	0.01855206	0.584389899
KAP3	-0.125514431	-0.127831972	-0.002317541	0.998394892	-0.029864909	0.977330205	0.98544248	KAP3	-0.125514431	-0.012685827	0.112828604	1.081346289	3.246848774	0.022775387	0.597683224
1433T	-0.683445197	-0.756926895	-0.073481698	0.950341741	-1.536029108	0.185129454	0.902826709	1433T	-0.683445197	-0.762184983	-0.078739786	0.946884402	-3.146068875	0.025491498	0.597683224
ACOC	0.443199858	0.73262897	0.289429112	1.222156563	2.051240889	0.09549187	0.902826709	ACOC	0.443199858	0.794738146	0.351538288	1.275920366	3.08114661	0.027433866	0.597683224
UBP5	-0.642879797	-0.470611499	0.172268298	1.126828765	1.421519657	0.214424701	0.902826709	UBP5	-0.642879797	-0.475375253	0.167504544	1.123114133	3.048004145	0.028489138	0.597683224
GNAO	1.047076591	1.086838785	0.039762195	1.027944373	1.326432084	0.242051087	0.902826709	GNAO	1.047076591	1.176921621	0.12984503	1.094176162	3.044114591	0.028615941	0.597683224
DLG4	0.854846337	0.958891979	0.104045641	1.074783174	0.560407582	0.599381356	0.922353168	DLG4	0.854846337	1.10633056	0.251484222	1.190431182	3.010030102	0.029754582	0.597683224
GLSK	0.375513835	0.257106254	-0.118407581	0.921203897	-2.00912889	0.100758279	0.902826709	GLSK	0.375513835	0.213446448	-0.162067386	0.893743416	-2.972807834	0.031056341	0.597683224
FARP1	-0.161855593	-0.748771698	-0.586916105	0.665764521	-2.843192244	0.036110908	0.902826709	FARP1	-0.161855593	-0.748322149	-0.586466555	0.665972008	-2.9571339	0.031623451	0.597683224
SV2A	-0.002027099	-0.119698152	-0.117671053	0.921674312	-2.717603869	0.041894454	0.902826709	SV2A	-0.002027099	-0.148469712	-0.146442613	0.903475502	-2.903253767	0.033662926	0.599301689
CKAP4	-0.111463826	-0.418764748	-0.307300921	0.808152285	-2.150940894	0.084144869	0.902826709	CKAP4	-0.111463826	-0.419738734	-0.308274907	0.807606873	-2.861749693	0.035334026	0.599301689
RAP1A	-0.493770934	-0.347099954	0.14667098	1.107012092	1.356665886	0.232924605	0.902826709	RAP1A	-0.493770934	-0.243681709	0.250089225	1.189280665	2.829355263	0.03670253	0.599301689
CXA1	0.327601979	0.891712854	0.564110875	1.478476052	1.978525787	0.104775394	0.902826709	CXA1	0.327601979	0.921956328	0.594354348	1.509796753	2.750334469	0.040294216	0.599301689
ADT3	0.272577254	0.188479539	-0.084097715	0.943374353	-0.789686363	0.473888239	0.902826709	ADT3	0.272577254	0.06295455	-0.209622704	0.864763356	-2.851715919	0.046315396	0.599301689
PP1A	-0.813074937	-0.872272495	-0.059197558	0.95979782	-1.759146321	0.138875994	0.902826709	PP1A	-0.813074937	-0.751737921	0.061337016	1.043432313	2.619405913	0.047131535	0.599301689
ACLY	-1.256346006	-1.321736499	-0.065390493	0.955686608	-0.684442463	0.52412466	0.909986598	ACLY	-1.256346006	-1.537888392	-0.281542385	0.822710987	-2.591798606	0.04873063	0.599301689
ANK1	0.890941749	0.725458375	-0.165483374	0.891629729	-2.360379578	0.064720531	0.902826709	ANK1	0.890941749	0.69398986	-0.196951889	0.872391798	-2.531863171	0.0524108	0.599301689
DMXL2	-0.537603442	-0.471371904	0.066231538	1.046978298	0.229104542	0.827864023	0.96278586	DMXL2	-0.537603442	0.044662551	0.582265993	1.497199003	2.509128466	0.053885352	0.599301689
CNTN2	1.1711392	1.541074759	0.36993556	1.292295107	1.73612148	0.143058282	0.902826709	CNTN2	1.1711392	0.735713517	-0.435425683	0.739475532	-2.498056021	0.054619838	0.599301689
PSD12	-0.189721678	-0.396871808	-0.207150131	0.866246708	-3.914066981	0.011248877	0.902826709	PSD12	-0.189721678	-0.344472838	-0.154751161	0.898287298	-2.486005728	0.055431611	0.599301689
HS90B	-0.443794679	-0.564011705	-0.120217027	0.920049236	-2.983612807	0.030672017	0.902826709	HS90B	-0.443794679	-0.557812124	-0.114017445	0.924011399	-2.463210626	0.057003372	0.599301689
NMDZ1	-0.138897084	-0.101826023	0.037071061	1.026028682	0.248741431	0.81345487	0.962614207	NMDZ1	-0.138897084	-0.0026583	0.136238785	1.099036107	2.370428937	0.063918676	0.599301689
CALM2	-0.04632038	-0.041331844	0.004988536	1.003463775	0.062406703	0.952656867	0.983039409	CALM2	-0.04632038	-0.217653196	-0.171332815	0.888021914	-2.359596613	0.06478346	0.599301689
CISY	-0.664332805	-0.760680951	-0.096348146	0.935397744	-1.633527866	0.163286118	0.902826709	CISY	-0.664332805	-0.823195357	-0.158862552	0.895731004	-2.347050633	0.065800862	0.599301689
CALR	-0.592159039	-0.665543289	-0.07338425	0.950405935	-1.146106501	0.303623925	0.902826709	CALR	-0.592159039	-0.731981746	-0.139822707	0.907630688	-2.334592027	0.066828248	0.599301689
AT1A1	1.132651049	1.104876644	-0.027774406	0.98093238	-0.423182514	0.689747221	0.937857733	AT1A1	1.132651049	0.996790109	-0.13586094	0.910126546	-2.318633892	0.068169532	0.599301689
GLPK	-0.888494542	-0.94938861	-0.060894067	0.958669828	-0.321425853	0.760889555	0.949228553	GLPK	-0.888494542	-1.202398604	-0.313904062	0.804461865	-2.313663179	0.068593217	0.599301689
PACN1	0.551785157	0.810664814	0.258879656	1.196549148	2.462256511	0.057070208	0.902826709	PACN1	0.551785157	0.759803295	0.208018137	1.155100306	2.295199692	0.070191934	0.599301689
GNAI1	0.560292859	0.625328926	0.065036066	1.046111091	0.792919019	0.463771024	0.902826709	GNAI1	0.560292859	0.727377943	0.167085084	1.122787638	2.280827691	0.07146407	0.599301689
RAB1A	0.629637311	0.670279084	0.040641773	1.028571278	0.501761955	0.637143898	0.930506741	RAB1A	0.629637311	0.748675659	0.119038348	1.086010723	2.238878748	0.075320574	0.599301689

FLNC	-0.781486955	-0.593488538	0.187998417	1.139182127	1.679009856	0.153987881	0.902826709	FLNC	-0.781486955	-0.635191421	0.146295534	1.10672404	2.216453577	0.077472966	0.599301689
NEGR1	0.644558315	0.914462288	0.269903973	1.205727571	1.767099638	0.137460247	0.902826709	NEGR1	0.644558315	0.98599074	0.341432425	1.267013964	2.199907635	0.079103099	0.599301689
AP2B1	0.198415729	0.055710764	-0.142704964	0.905819207	-3.574415461	0.015968893	0.902826709	AP2B1	0.198415729	0.096979828	-0.1014359	0.932104815	-2.198509418	0.079242518	0.599301689
GRIA3	0.102836582	0.673649384	0.570812802	1.485360174	2.145364886	0.08474027	0.902826709	GRIA3	0.102836582	0.806120018	0.703283437	1.628206221	2.178817772	0.08123405	0.599301689
HS90A	0.089747109	0.029733773	-0.060013336	0.959255252	-0.892243181	0.413138172	0.902826709	HS90A	0.089747109	0.013137145	-0.076609964	0.948283301	-2.139092468	0.085415374	0.599301689
CNTP1	1.887684817	1.750334139	-0.137350677	0.909187228	-1.409543607	0.217732981	0.902826709	CNTP1	1.887684817	1.663347596	-0.224337221	0.855988179	-2.136919585	0.08565057	0.599301689
OPA1	2.285610041	2.316482567	0.030872525	1.021629809	0.11447608	0.913315306	0.982274947	OPA1	2.285610041	1.909445928	-0.376164113	0.770483458	-2.136448479	0.085701653	0.599301689
RHOA	-0.016683043	0.048109014	0.064792057	1.045934173	0.828096691	0.445329429	0.902826709	RHOA	-0.016683043	0.128182915	0.144865958	1.105627924	2.135851436	0.085766439	0.599301689
MDHC	-0.176034859	-0.262838809	-0.08680395	0.941606412	-1.396537538	0.221380529	0.902826709	MDHC	-0.176034859	-0.288671047	-0.112636187	0.924896485	-2.125721371	0.086873598	0.599301689
CAPS1	-0.80772392	-0.754383032	0.053340889	1.037665093	0.49436662	0.641999384	0.930506741	CAPS1	-0.80772392	-0.972209064	-0.164485144	0.89224688	-2.123276095	0.087143112	0.599301689
2A5D	0.105571101	0.09820312	-0.007367982	0.994905923	-0.086413983	0.934491154	0.983039409	2A5D	0.105571101	-0.144298545	-0.249869646	0.840972397	-2.119801709	0.087527575	0.599301689
HS12A	0.955797278	0.898560601	-0.057236677	0.961103244	-1.013181809	0.357464028	0.902826709	HS12A	0.955797278	0.875338371	-0.080458907	0.945756763	-2.111691425	0.088432024	0.599301689
VATH	-0.457346934	-0.531930062	-0.074583128	0.949616477	-1.078787934	0.329951766	0.902826709	VATH	-0.457346934	-0.58142277	-0.124075836	0.917591647	-2.109025929	0.088731429	0.599301689
VDAC1	-0.553378072	-0.578872255	-0.025494183	0.982483999	-0.586238649	0.583180213	0.922353168	VDAC1	-0.553378072	-0.633689212	-0.080311139	0.945853637	-2.092990673	0.090555336	0.599301689
GDS1	-1.221518533	-1.300871677	-0.079353145	0.946481922	-1.303130717	0.249310152	0.902826709	GDS1	-1.221518533	-1.320358943	-0.09884041	0.933783233	-2.072661031	0.092924702	0.599301689
SEPT7	0.825302445	0.752065578	-0.073236867	0.950503031	-2.585007276	0.049133061	0.902826709	SEPT7	0.825302445	0.72187349	-0.103428955	0.93081802	-2.059491009	0.094494391	0.599301689
PAK3	0.057794887	-0.08985231	-0.147647196	0.902721456	-1.055114836	0.339665167	0.902826709	PAK3	0.057794887	-0.245492328	-0.303287215	0.810403767	-2.034279337	0.097577479	0.599301689
CSK1	0.185137901	-0.074311662	-0.259449563	0.835406595	-1.062869678	0.33645682	0.902826709	CSK1	0.185137901	-0.202237531	-0.387375431	0.764519163	-2.027064518	0.098479046	0.599301689
ENOG	0.595763632	0.608207627	0.012443995	1.008662827	0.824066379	0.447413991	0.902826709	ENOG	0.595763632	0.444558367	-0.151205265	0.900497849	-2.004847993	0.1013104	0.599301689
GUAD	-0.337003695	-0.149270658	0.187733037	1.138972597	0.997767919	0.364199249	0.902826709	GUAD	-0.337003695	-0.026655358	0.310348336	1.240007062	2.004325571	0.101377994	0.599301689
ADT1	-0.126949862	-0.154448082	-0.02749822	0.981120186	-0.385288759	0.715869438	0.946149117	ADT1	-0.126949862	-0.26609696	-0.139147098	0.908055827	-2.003602216	0.101471665	0.599301689
ARP3	-1.583050715	-1.557899688	0.025151026	1.017586211	0.415950974	0.694696159	0.940502232	ARP3	-1.583050715	-1.465067696	0.117983018	1.085216598	1.996409133	0.102408061	0.599301689
AT1A2	-0.951210042	-0.9509237	0.000286342	1.000198497	0.004001446	0.996962058	0.998556552	AT1A2	-0.951210042	-1.157744717	-0.206534675	0.866616328	-1.993957269	0.102729302	0.599301689
ATPA	-0.34109622	-0.397633506	-0.056537286	0.961569282	-1.050399405	0.341628685	0.902826709	ATPA	-0.34109622	-0.469673801	-0.128577581	0.914732883	-1.991483169	0.103054523	0.599301689
AATM	-0.575868952	-0.696568028	-0.120699075	0.919741871	-1.934661264	0.110826303	0.902826709	AATM	-0.575868952	-0.750555299	-0.174686347	0.885960113	-1.927725544	0.111815762	0.629265273
VIME	2.540561021	2.910758898	0.370197877	1.292530099	0.926333075	0.396784661	0.902826709	VIME	2.540561021	3.040819242	0.50025822	1.414466708	1.924776123	0.112239298	0.629265273
ZNT1	0.309718794	0.473250764	0.16353197	1.120025804	2.624819632	0.046824761	0.902826709	ZNT1	0.309718794	0.406494499	0.096775705	1.069380819	1.909513766	0.114457633	0.629265273
VATE1	-0.606690035	-0.674723798	-0.068033763	0.953937226	-3.148876527	0.025411056	0.902826709	VATE1	-0.606690035	-0.653089161	-0.046399126	0.968350255	-1.9067383	0.114865883	0.629265273
CKAP5	0.715593879	0.733843872	0.018249993	1.01273028	0.112623397	0.914711062	0.982274947	CKAP5	0.715593879	0.933084162	0.217490283	1.162709173	1.888220713	0.117628421	0.635193471
DLG3	-0.343874764	0.091081198	0.434955962	1.351869567	2.23477793	0.075709352	0.902826709	DLG3	-0.343874764	-0.706368311	-0.362493548	0.777819038	-1.835633722	0.125852345	0.670030797
EAA1	0.697687048	0.657806264	-0.039880784	0.972735326	-0.535375603	0.615336066	0.926681406	EAA1	0.697687048	0.824224999	0.126537951	1.091670863	1.802337911	0.13136162	0.67729663
ANK3	-1.12628571	-1.231536756	-0.105251046	0.92964316	-0.66321812	0.536539709	0.917701402	ANK3	-1.12628571	-0.696722075	0.429563636	1.346826148	1.800622468	0.13165204	0.67729663
VDAC2	0.831136947	0.78698049	-0.044156457	0.969856726	-1.06791603	0.334382887	0.902826709	VDAC2	0.831136947	0.738930758	-0.092206189	0.938087116	-1.785679547	0.13420963	0.67729663
PHB2	0.309965196	0.323970333	0.014005137	1.009754893	0.229040217	0.827911354	0.96278586	PHB2	0.309965196	0.479228733	0.169263536	1.124484314	1.776919472	0.135732402	0.67729663
DLG2	-0.273779435	-0.262009794	0.011769641	1.008191462	0.132253176	0.899941398	0.982274947	DLG2	-0.273779435	-0.112860361	0.160919074	1.117999137	1.76207077	0.138353713	0.67729663
ACON	-0.676530795	-0.711409207	-0.034878411	0.976114023	-0.466346777	0.660579096	0.930506741	ACON	-0.676530795	-0.828239594	-0.151708799	0.900183609	-1.758266783	0.139033462	0.67729663
ALDH2	0.289770224	0.530866852	0.241096628	1.181890704	1.186594868	0.288689928	0.902826709	ALDH2	0.289770224	0.490053563	0.200283338	1.148923976	1.754223809	0.139759622	0.67729663
GPM6A	0.690844301	0.669165484	-0.021678816	0.985085726	-0.73291855	0.496507873	0.902826709	GPM6A	0.690844301	0.805075395	0.114231094	1.082398011	1.732175735	0.143787655	0.684147739
NDUS4	0.55273016	0.284286747	-0.268443413	0.830214818	-2.096427813	0.090161079	0.902826709	NDUS4	0.55273016	0.302512292	-0.250217868	0.840769437	-1.721362924	0.145805669	0.684147739
S4A4	-1.417326958	-1.436251126	-0.018924168	0.986968422	-0.199692254	0.849588648	0.978693753	S4A4	-1.417326958	-1.529202484	-0.111875526	0.925384265	-1.710940895	0.14777772	0.684147739
ODO1	-1.372895153	-0.969118281	0.403776873	1.322966814	2.144147589	0.084870845	0.902826709	ODO1	-1.372895153	-1.036976749	0.335918404	1.262180643	1.707613263	0.148413002	0.684147739
S12A5	-0.286057945	-0.374328733	-0.088270788	0.940649535	-0.743256846	0.490752533	0.902826709	S12A5	-0.286057945	-0.473008516	-0.18695057	0.878460566	-1.693993258	0.151041901	0.687877575
RTN1	0.195593066	0.220901321	0.025308255	1.017697116	0.634317284	0.553756962	0.918102039	RTN1	0.195593066	0.277365852	0.081772786	1.058317704	1.676399009	0.154507063	0.690291938
BSN	0.643549423	0.683014515	0.039465092	1.027732704	0.715437852	0.506347255	0.902826709	BSN	0.643549423	0.718864126	0.075314703	1.053590836	1.672806181	0.155224378	0.690291938

PRDX2	1.418776855	1.269378869	-0.149397986	0.901626619	-2.728326192	0.041362621	0.902826709	PRDX2	1.418776855	1.293862042	-0.124914813	0.917058191	-1.658103046	0.158194673	0.69532077
NRX1A	-0.376196222	-0.410663476	-0.034467255	0.976392247	-0.313972001	0.76621928	0.95198238	NRX1A	-0.376196222	-0.206680389	0.169515833	1.124680979	1.637722971	0.162405604	0.70562435
VAPA	-0.10727132	-0.022946228	0.084325092	1.060191656	0.983479113	0.370536145	0.902826709	VAPA	-0.10727132	0.129063808	0.236335127	1.177996398	1.624303633	0.165238877	0.709776087
MK03	0.026667951	0.031749113	0.005081162	1.003528203	0.06171927	0.953177571	0.983039409	MK03	0.026667951	0.163206868	0.136538917	1.09926477	1.611348594	0.168020531	0.71361529
HOME1	0.165575884	0.098904085	-0.066671799	0.954838207	-0.779245494	0.471089591	0.902826709	HOME1	0.165575884	0.070189817	-0.095386067	0.936021733	-1.572392943	0.176666136	0.724987434
MAP1A	0.602533482	0.495084895	-0.107448587	0.928228187	-2.889887779	0.034191282	0.902826709	MAP1A	0.602533482	0.513932483	-0.088600998	0.94043426	-1.570303691	0.177141968	0.724987434
NFASC	1.371724317	1.248413331	-0.123310986	0.918078241	-0.998824774	0.363734118	0.902826709	NFASC	1.371724317	1.254904226	-0.116820091	0.922218114	-1.56681192	0.177940033	0.724987434
AAK1	-0.49022844	-0.531337472	-0.041109031	0.971907534	-1.282894753	0.255776505	0.902826709	AAK1	-0.49022844	-0.569227964	-0.078999523	0.946713944	-1.564937371	0.178369924	0.724987434
FSCN1	1.196955754	1.157550535	-0.039405219	0.973056027	-0.664389514	0.535849425	0.917701402	FSCN1	1.196955754	1.050425791	-0.146529963	0.903420801	-1.543305555	0.183404847	0.732842816
M2OM	0.002581121	-0.000145883	-0.002727004	0.99811157	-0.199194925	0.851826044	0.978693753	M2OM	0.002581121	-0.069537757	-0.072118878	0.951239891	-1.596085079	0.185703644	0.732842816
ODPB	-0.387115571	-0.445054428	-0.057938857	0.960635576	-1.219912075	0.27689436	0.902826709	ODPB	-0.387115571	-0.551367411	-0.16425184	0.89239118	-1.520146288	0.188948877	0.732842816
GNA13	-0.618503296	-0.377224302	0.241278995	1.182040113	1.779900485	0.135212251	0.902826709	GNA13	-0.618503296	-0.894936888	-0.276433592	0.82562949	-1.519723905	0.189051487	0.732842816
NCAM2	1.485621877	1.317193365	-0.168428512	0.8898114	-2.041442761	0.096690888	0.902826709	NCAM2	1.485621877	1.630456015	0.144834137	1.105603538	1.51159775	0.19103615	0.732842816
SEPT9	0.849694078	0.824264013	-0.025430064	0.982527665	-0.157055361	0.881346244	0.982274947	SEPT9	0.849694078	0.650057513	-0.199636564	0.870769895	-1.507944222	0.191935023	0.732842816
AKA12	1.322006392	1.144957823	-0.177048569	0.884510657	-0.896402755	0.411114777	0.902826709	AKA12	1.322006392	1.023127918	-0.298878474	0.812884073	-1.498408841	0.194300326	0.734455231
RAN	-0.379899494	-0.356720987	0.023178507	1.016195871	0.336484343	0.750168323	0.948822069	RAN	-0.379899494	-0.44607654	-0.066177046	0.955165712	-1.470675576	0.201340685	0.740562603
HSP7C	-0.590861924	-0.665715642	-0.074853717	0.949438385	-1.741973903	0.141983324	0.902826709	HSP7C	-0.590861924	-0.640062378	-0.049200454	0.966471802	-1.469364174	0.201679605	0.740562603
Q6FHZ0	-0.561073793	-0.505518155	0.055555638	1.039259285	0.92220118	0.398739023	0.902826709	Q6FHZ0	-0.561073793	-0.681811008	-0.120737215	0.919717556	-1.468923894	0.201793513	0.740562603
PSMD1	0.107089136	0.055316142	-0.051772994	0.964749975	-0.341196213	0.746826545	0.948822069	PSMD1	0.107089136	-0.121824783	-0.228913918	0.853277009	-1.449290599	0.206936205	0.746073263
CTNA1	-1.04597359	-1.274294648	-0.228321059	0.853627726	-0.173957992	0.872974788	0.982274947	CTNA1	-1.04597359	-1.186423082	-0.140449492	0.907236449	-1.83396664	0.208100669	0.746073263
PRDX5	-1.59478325	-1.799707942	-0.204924691	0.867583974	-1.173273069	0.293530302	0.902826709	PRDX5	-1.59478325	-1.743839001	-0.149055751	0.901840528	-1.440734766	0.209216312	0.746073263
ATPB	-0.421976232	-0.53994855	-0.117972319	0.921481867	-1.731294399	0.143951082	0.902826709	ATPB	-0.421976232	-0.505676239	-0.083700007	0.943634449	-1.422979181	0.214024798	0.746073932
NOS1	1.097548435	0.894858935	-0.2026895	0.868929178	-2.074546118	0.092702279	0.902826709	NOS1	1.097548435	0.929122139	-0.168426296	0.889812767	-1.422356054	0.214195445	0.746073932
ROA2	-0.398465857	-0.223090535	0.175375322	1.129258147	2.876710824	0.034721222	0.902826709	ROA2	-0.398465857	-0.258549741	0.139916116	1.101841048	1.41892376	0.215137721	0.746073932
DAAM2	-0.796965659	-0.974134311	-0.177168652	0.884437038	-2.210244032	0.078080503	0.902826709	DAAM2	-0.796965659	-0.885402273	-0.088436614	0.940541421	-1.39486295	0.221854341	0.755993233
SEPT2	2.145820497	2.24402947	0.098208973	1.07044374	1.129160347	0.310073403	0.902826709	SEPT2	2.145820497	2.231042273	0.085221776	1.060850807	1.394355841	0.221998013	0.755993233
ARPC2	-0.980797913	-1.000976791	-0.020178878	0.98611043	-0.396382035	0.708174345	0.945900715	ARPC2	-0.980797913	-0.884589337	0.096208576	1.068960524	1.362686678	0.231145916	0.780117468
GFAP	3.736218364	4.097428451	0.361210087	1.284502846	0.867189177	0.425490361	0.902826709	GFAP	3.736218364	4.133967522	0.397749157	1.317450866	1.340582829	0.237738822	0.787576509
PP2BA	-0.011051056	0.092593634	0.10364469	1.074484514	3.961398634	0.010727852	0.902826709	PP2BA	-0.011051056	0.058111023	0.069162078	1.049107182	1.340006204	0.237913136	0.787576509
PTPRA	-2.492189812	-2.423463668	0.068726144	1.048790225	0.350192986	0.740463348	0.948822069	PTPRA	-2.492189812	-2.307290827	0.184898984	1.136737378	1.334424622	0.23960661	0.787576509
ANK2	0.553679536	0.509484448	-0.044195088	0.969830756	-0.870330262	0.423926222	0.902826709	ANK2	0.553679536	0.451480137	-0.102199399	0.93161166	-1.319641748	0.244146031	0.790960532
ITPR1	-0.942228149	-0.863754173	0.078473977	1.055900562	0.351886482	0.739268186	0.948822069	ITPR1	-0.942228149	-0.612095803	0.330132346	1.257128693	1.31619483	0.245215881	0.790960532
VISL1	1.345321706	1.312659451	-0.032662255	0.977614606	-0.470256036	0.657969761	0.930506741	VISL1	1.345321706	1.247422491	-0.097899215	0.93439262	-1.310753424	0.246913605	0.790960532
PP1B	-0.820776159	-1.033039434	-0.212263274	0.863182024	-1.453004556	0.205953854	0.902826709	PP1B	-0.820776159	-0.666037404	0.154738755	1.113220017	1.299490378	0.250462209	0.791763777
GRIA4	0.426398539	0.521364026	0.094965487	1.068039858	0.634285931	0.553775833	0.918102039	GRIA4	0.426398539	0.764398707	0.338000168	1.264003245	1.296684331	0.25135358	0.791763777
XPOT	-0.161474025	-0.302529028	-0.141055003	0.906855755	-1.41780286	0.215446296	0.902826709	XPOT	-0.161474025	-0.27465947	-0.113185445	0.924544429	-1.245582674	0.268103259	0.831720701
DYN3	-0.156233513	-0.130537107	0.025696406	1.01797096	0.075932226	0.942417623	0.983039409	DYN3	-0.156233513	0.126238938	0.282472451	1.216277522	1.239339391	0.270217797	0.831720701
MTAP2	0.575728974	0.501700183	-0.074028791	0.949981425	-0.834429309	0.442068872	0.902826709	MTAP2	0.575728974	0.503215013	-0.072513961	0.950979429	-1.23717053	0.270955892	0.831720701
E41L1	0.506470731	0.681840081	0.175369349	1.129253472	1.210803271	0.280075595	0.902826709	E41L1	0.506470731	0.642986832	0.136516101	1.099247385	1.231659458	0.272839595	0.831720701
STX1B	0.734297808	0.768213405	0.033915596	1.023787003	0.407957408	0.700186709	0.941888171	STX1B	0.734297808	0.661413957	-0.072883851	0.95073564	-1.217530442	0.277722993	0.83375233
GLNA	-1.018502268	-0.687432531	0.331069737	1.257945777	2.519653412	0.05319716	0.902826709	GLNA	-1.018502268	-0.838196641	0.180305627	1.133123906	1.216972484	0.277917443	0.83375233
VPP1	0.205299206	0.12165125	-0.083647955	0.943668496	-3.134356342	0.025830179	0.902826709	VPP1	0.205299206	0.253251211	0.047952005	1.033796344	1.204932076	0.282143432	0.839765489
IDH3A	-1.707243567	-1.770157753	-0.062914187	0.9573284	-0.820051587	0.44949781	0.902826709	IDH3A	-1.707243567	-1.81933308	-0.112089513	0.925247019	-1.193392684	0.286247434	0.841008304
SHAN3	1.360245655	1.188437975	-0.17180768	0.887729669	-0.413076229	0.69666832	0.940502232	SHAN3	1.360245655	1.034535459	-0.325710196	0.797905504	-1.179955163	0.291093487	0.841008304

HPCA	-1.613511985	-1.573857181	0.039654804	1.027867858	0.85759594	0.430294982	0.902826709	HPCA	-1.613511985	-1.487326085	0.1261859	1.091404502	1.179291116	0.291334845	0.841008304
MPCP	-0.157799688	-0.161214242	-0.003414555	0.99763601	-0.047279029	0.964121167	0.984847936	MPCP	-0.157799688	-0.28108385	-0.123284162	0.918095311	-1.178945459	0.29146055	0.841008304
FLOT1	1.800328923	1.770704446	-0.029624477	0.979675267	-0.193074504	0.854498432	0.978789113	FLOT1	1.800328923	2.106188535	0.305859612	1.236154965	1.167921584	0.29549488	0.846189883
KAD4	0.468928111	0.363446252	-0.105481859	0.92949444	-1.260647182	0.263062717	0.902826709	KAD4	0.468928111	0.335444379	-0.133483732	0.911627448	-1.161231336	0.297967265	0.846854331
VPS35	0.286349202	0.415062584	0.128713381	1.093318227	0.470239715	0.657980644	0.930506741	VPS35	0.286349202	-0.034813847	-0.32116305	0.800424344	-1.13962298	0.306077473	0.855672214
G6PI	0.111202577	0.082943433	-0.028259144	0.980602848	-0.283129172	0.788425742	0.959375921	G6PI	0.111202577	0.180613078	0.0694105	1.049287847	1.1373768	0.30693153	0.855672214
NCPR	-2.044669818	-1.709131133	0.335538686	1.261848481	1.525974851	0.187538439	0.902826709	NCPR	-2.044669818	-1.705929598	0.33874022	1.264651801	1.12179966	0.312911812	0.855672214
ANXA3	0.333429033	0.439565045	0.106136011	1.076341593	0.513315289	0.629599615	0.930506741	ANXA3	0.333429033	0.79040872	0.456979686	1.372665103	1.118137518	0.314332396	0.855672214
RTN4	1.096752875	1.090692623	-0.006060252	0.995808164	-0.159617129	0.879430281	0.982274947	RTN4	1.096752875	1.068491126	-0.028261749	0.980601077	-1.117516967	0.314573669	0.855672214
ACSL6	-0.827252048	-1.017352315	-0.190100267	0.876544799	-0.618111197	0.563566878	0.922200346	ACSL6	-0.827252048	-1.073129264	-0.245877216	0.843302879	-1.111649016	0.316863101	0.855672214
3HIDH	-1.044127405	-1.027958186	0.016169219	1.01127069	0.120687705	0.908638271	0.982274947	3HIDH	-1.044127405	-1.171815255	-0.12768785	0.915297186	-1.1115148	0.316915635	0.855672214
COF1	-0.430823345	-0.445310445	-0.0144871	0.990008557	-0.274036837	0.795017027	0.959375921	COF1	-0.430823345	-0.378038609	0.052784736	1.037265155	1.098207421	0.322161856	0.858103189
CPNE6	-0.032623726	-0.084021669	-0.051397943	0.965000809	-0.342070984	0.746206826	0.948822069	CPNE6	-0.032623726	0.151088472	0.183712199	1.135802663	1.097717996	0.322356224	0.858103189
STIP1	-0.186944509	-0.283254032	-0.096309524	0.935422786	-1.106843646	0.318748691	0.902826709	STIP1	-0.186944509	-0.299816722	-0.112872214	0.924745184	-1.083977221	0.32785449	0.863494918
PSMD7	-0.323493443	-0.279477945	0.044015498	1.030979394	0.311299308	0.768133931	0.95198238	PSMD7	-0.323493443	-0.401420098	-0.077926655	0.947418235	-1.075780898	0.331172317	0.863494918
CH60	0.32397	0.290490203	-0.033479796	0.977060772	-0.605420055	0.571326093	0.922353168	CH60	0.32397	0.233196034	-0.090773965	0.939018857	-1.07309151	0.332267199	0.863494918
ADDA	1.678780038	1.535762599	-0.143017439	0.905623036	-2.60146941	0.048163794	0.902826709	ADDA	1.678780038	1.61384423	-0.064935808	0.955987853	-1.064035567	0.335976698	0.863494918
GCYB1	0.163836122	0.303265068	0.139428946	1.101469041	1.795627654	0.132501375	0.902826709	GCYB1	0.163836122	0.255688072	0.09185195	1.065737364	1.061011048	0.337223424	0.863494918
SNAA	0.176305033	0.109132337	-0.067172696	0.954506749	-0.741478173	0.491739337	0.902826709	SNAA	0.176305033	0.091698063	-0.08460697	0.943041411	-1.058919284	0.338087957	0.863494918
B7Z1I4	-0.720049486	-0.595314057	0.124735429	1.090307767	1.931187975	0.111320668	0.902826709	B7Z1I4	-0.720049486	-0.627042077	0.093007409	1.066591258	1.041277514	0.345454285	0.87638738
1433Z	-0.744012757	-0.731822338	0.012190419	1.008485555	0.246751302	0.814911498	0.962614207	1433Z	-0.744012757	-0.701051433	0.042961324	1.030226335	1.017529831	0.35558294	0.87835903
AT1B1	-3.834357383	-3.723851292	0.110506091	1.079606891	1.472861291	0.200777024	0.902826709	AT1B1	-3.834357383	-3.759145342	0.075212042	1.053515866	1.017330676	0.35566892	0.87835903
COR1A	-0.129029992	-0.191758236	-0.062728245	0.957451793	-0.607210118	0.586586821	0.922353168	COR1A	-0.129029992	-0.104374812	0.024655179	1.017236532	1.190171389	0.356100202	0.87835903
KCC2B	-0.04084765	-0.10156664	-0.060718991	0.958786174	-0.993307298	0.366167818	0.902826709	KCC2B	-0.04084765	0.049785067	0.090632717	1.064837081	1.015015469	0.356669723	0.87835903
KPYM	-1.295554204	-1.263998432	0.031555772	1.022113758	0.781950049	0.469635351	0.902826709	KPYM	-1.295554204	-1.343633058	-0.048078854	0.967223462	-1.009758451	0.358950895	0.87835903
RAC1	0.040110264	0.080999786	0.040889522	1.028747926	1.554574886	0.180764762	0.902826709	RAC1	0.040110264	0.127012677	0.086902413	1.062087342	0.990329109	0.367487034	0.87835903
NEB1	-0.42996849	-0.206393332	0.223575158	1.167623504	0.897781354	0.410445885	0.902826709	NEB1	-0.42996849	-0.745115827	-0.315147337	0.803768901	-0.979678561	0.372236805	0.87835903
ALDOC	0.480282235	0.501170994	0.020888759	1.014584312	0.87536095	0.421430401	0.902826709	ALDOC	0.480282235	0.51380645	0.033524215	1.023509303	0.977931965	0.373020509	0.87835903
NMDE1	-0.190035809	0.044813471	0.23484928	1.176783791	1.023448073	0.35303579	0.902826709	NMDE1	-0.190035809	0.013285135	0.203320944	1.151345593	0.973482633	0.375023038	0.87835903
IMB1	-0.31159431	-0.31380095	-0.00220664	0.998471643	-0.030365511	0.976950348	0.98544248	IMB1	-0.31159431	-0.415577613	-0.103983303	0.930460426	-0.965555602	0.378612527	0.87835903
AT2B1	0.541649204	0.538510742	-0.003138462	0.997826948	-0.029481017	0.977621508	0.98544248	AT2B1	0.541649204	0.639168775	0.09751957	1.069932342	0.964130032	0.379261006	0.87835903
PTPRS	-0.255206362	-0.112483889	0.142722473	1.103986456	1.332858512	0.240083783	0.902826709	PTPRS	-0.255206362	-0.3401928	-0.084986437	0.942793399	-0.961371453	0.380518422	0.87835903
OTUB1	-0.564703206	-0.451897932	0.112805274	1.081328802	1.05346384	0.340351557	0.902826709	OTUB1	-0.564703206	-0.457779106	0.1069241	1.076929718	0.959547599	0.381351628	0.87835903
F8VWT9	0.224042952	0.244856015	0.020813063	1.014531081	0.273628911	0.795313204	0.959375921	F8VWT9	0.224042952	0.164457661	-0.059585291	0.959539904	-0.959433321	0.381403884	0.87835903
NCDN	-0.271895435	-0.281122257	-0.009226822	0.993624863	-0.074944775	0.943164755	0.983039409	NCDN	-0.271895435	-0.390439444	-0.118544009	0.921116788	-0.956306911	0.382835748	0.87835903
CNDP2	0.124779326	0.459106703	0.334327377	1.260789458	1.601377817	0.170192875	0.902826709	CNDP2	0.124779326	-0.158229821	-0.283009148	0.821874976	-0.951258676	0.385156971	0.87835903
CACB3	-0.370784951	-0.639581461	-0.26879651	0.830011649	-2.095454881	0.090272495	0.902826709	CACB3	-0.370784951	-0.179248381	0.19153657	1.141979355	0.949987262	0.385743367	0.87835903
AIP	0.653603943	0.677408654	0.023804711	1.016637048	0.284948852	0.787108991	0.959375921	AIP	0.653603943	0.808174217	0.154570274	1.11309002	0.944983699	0.38805809	0.87835903
1433E	-0.04089512	-0.073034813	-0.032139693	0.977968774	-0.391554778	0.71115181	0.946149117	1433E	-0.04089512	0.041736	0.08263112	1.05894754	0.937320919	0.391624663	0.881155491
AL3A1	1.124019186	1.221496767	0.097477581	1.069901203	0.732647065	0.496659649	0.902826709	AL3A1	1.124019186	1.057858794	-0.066160392	0.955176738	-0.921861637	0.398899965	0.890277726
DHE3	-0.775523299	-0.672939818	0.102583481	1.073694441	0.802265234	0.458816966	0.902826709	DHE3	-0.775523299	-0.660324128	0.115199171	1.083124566	0.918724387	0.400389454	0.890277726
AP1B1	-0.054582012	-0.041937643	0.012644369	1.008802929	0.559864466	0.599724885	0.922353168	AP1B1	-0.054582012	-0.018780508	0.035801504	1.025126184	0.913595903	0.402833838	0.890474801
UCHL1	0.769513108	0.766858176	-0.002654932	0.998161434	-0.043996741	0.966610011	0.984847936	UCHL1	0.769513108	0.703200396	-0.066312712	0.955075896	-0.904777109	0.407064742	0.892759485
RP3A	0.664726057	0.601691527	-0.06303453	0.957248547	-0.942960611	0.388997171	0.902826709	RP3A	0.664726057	0.748300866	0.083574809	1.05964044	0.894877065	0.411856033	0.892759485

AT1A3	-1.525520075	-1.599222751	-0.073702677	0.950196188	-0.794435082	0.462964748	0.902826709	AT1A3	-1.525520075	-1.612084447	-0.086564372	0.941762791	-0.893776415	0.412391435	0.892759485
AP2A1	-0.179440499	-0.332404309	-0.15296381	0.899400874	-0.722914488	0.502122317	0.902826709	AP2A1	-0.179440499	-0.312892007	-0.133451508	0.91164781	-0.888645544	0.414894498	0.892759485
SYT7	-0.07848415	0.029952028	0.108436178	1.078059031	0.977705697	0.373122134	0.902826709	SYT7	-0.07848415	0.048117552	0.126601702	1.091719103	0.887047787	0.415676374	0.892759485
EAA2	0.739020544	0.739199849	0.000179305	1.000124292	0.001901243	0.998556552	0.998556552	EAA2	0.739020544	0.77276246	0.033741916	1.023663761	0.880094759	0.419092288	0.89501065
CAPZB	-1.209934653	-1.161405317	0.048529335	1.034210126	0.618353676	0.563419285	0.922200346	CAPZB	-1.209934653	-1.123598337	0.086336316	1.061670673	0.865491616	0.426337535	0.905368473
CMC1	-0.110417821	-0.148274124	-0.037856303	0.974101287	-0.377599156	0.721226099	0.946609256	CMC1	-0.110417821	-0.190886412	-0.080468591	0.945750414	-0.839249566	0.439599134	0.912217752
MAP1B	0.898963305	0.74829969	-0.150663615	0.900835998	-1.353574279	0.233842907	0.902826709	MAP1B	0.898963305	0.825150583	-0.073812721	0.950123712	-0.830796491	0.443937136	0.912217752
KPCE	-1.295228156	-1.479595254	-0.184367098	0.880035058	-1.364259138	0.230683472	0.902826709	KPCE	-1.295228156	-1.21902585	0.076202307	1.054239247	0.82782013	0.445472238	0.912217752
SERA	-0.365797369	-0.237862997	0.127934372	1.09272803	1.142587201	0.304953581	0.902826709	SERA	-0.365797369	-0.271774156	0.094023213	1.067342512	0.817503206	0.450824281	0.912217752
GRP75	0.775054691	0.701403363	-0.073651328	0.950230008	-0.823891697	0.447504506	0.902826709	GRP75	0.775054691	0.7089871	-0.066067591	0.955238182	-0.806158459	0.456764924	0.912217752
PTPRZ	1.113270695	0.910174021	-0.203096674	0.868683973	-0.95704783	0.382496021	0.902826709	PTPRZ	1.113270695	1.003893763	-0.109376932	0.926988321	-0.796896368	0.461657984	0.912217752
ADHX	0.489750609	0.300757168	-0.188993441	0.877217537	-1.368999984	0.229294477	0.902826709	ADHX	0.489750609	0.394467339	-0.09528327	0.936088431	-0.794887412	0.46272439	0.912217752
NLGN2	0.05917053	-0.173678757	-0.232849288	0.85095262	-0.897331274	0.410664169	0.902826709	NLGN2	0.05917053	0.21589233	0.156721799	1.114751236	0.793975616	0.463208993	0.912217752
VATC1	-0.700325573	-0.715903325	-0.015577751	0.989260411	-0.138089569	0.895558561	0.982274947	VATC1	-0.700325573	-0.629203599	0.071121975	1.050533359	0.785644536	0.467654133	0.912217752
IPO5	-0.434072977	-0.040507806	0.393565171	1.313635637	1.076004546	0.331081406	0.902826709	IPO5	-0.434072977	-0.204166654	0.229906324	1.172758798	0.781103998	0.47008992	0.912217752
RAB2A	0.151520128	0.148448359	-0.003071769	0.997873077	-0.091966471	0.930295694	0.983039409	RAB2A	0.151520128	0.199272908	0.04775278	1.033653594	0.781083316	0.470101036	0.912217752
Q6NVC0	4.122564126	3.984150961	-0.138413164	0.908517895	-1.215934109	0.278279646	0.902826709	Q6NVC0	4.122564126	4.012221158	-0.110342968	0.926367813	-0.780204469	0.470573574	0.912217752
TEBP	0.039118062	-0.135758724	-0.174876786	0.885843171	-1.003267542	0.361784186	0.902826709	TEBP	0.039118062	0.126363553	0.087245491	1.06233994	0.777061293	0.472266433	0.912217752
PRS4	-0.354306029	-0.619393851	-0.265087822	0.832148077	-1.381651213	0.22562618	0.902826709	PRS4	-0.354306029	-0.493495153	-0.139189124	0.908029376	-0.777000633	0.472299147	0.912217752
DCTN2	0.046213537	0.033486988	-0.012726549	0.991217423	-0.125291676	0.905174411	0.982274947	DCTN2	0.046213537	0.121081938	0.074868401	1.053264955	0.769400492	0.476410967	0.912217752
TFR1	0.24461	0.180533922	-0.064076078	0.956557714	-1.821729763	0.12812369	0.902826709	TFR1	0.24461	0.297934705	0.053324705	1.037653453	0.760586106	0.481212126	0.912217752
IP3KA	-0.6664016	-0.427001091	0.239400508	1.180502018	1.260288852	0.263181606	0.902826709	IP3KA	-0.6664016	-0.513379462	0.153022138	1.111896219	0.760133292	0.48145971	0.912217752
1433G	0.46132328	0.465083719	0.003760439	1.002609938	0.130900307	0.900957918	0.982274947	1433G	0.46132328	0.484090284	0.022767003	1.01590606	0.756834697	0.483266047	0.912217752
HXK1	0.254597366	0.27637611	0.021778744	1.015210393	0.46335658	0.662578677	0.930506741	HXK1	0.254597366	0.222060183	-0.032537183	0.977699362	-0.747932911	0.488164986	0.912217752
SEPT5	0.637130954	0.625746724	-0.01138423	0.992140105	-0.058252885	0.955803622	0.983039409	SEPT5	0.637130954	0.538604434	-0.09852652	0.933986421	-0.746777331	0.488803531	0.912217752
HSP74	-1.193025955	-1.087729108	0.105296846	1.075715705	1.741431879	0.142082539	0.902826709	HSP74	-1.193025955	-1.15692061	0.036105344	1.025342105	0.74020142	0.492448544	0.912217752
SUCB1	-0.20926906	-0.137249083	0.072019977	1.051187464	1.166801472	0.295907551	0.902826709	SUCB1	-0.20926906	-0.332126864	-0.122857804	0.918366674	-0.73790857	0.493723991	0.912217752
DYN1	0.061060593	0.1028198	0.041759207	1.029368262	0.523642043	0.622899283	0.930506741	DYN1	0.061060593	-0.000436969	-0.061497563	0.95826889	-0.737323534	0.494049804	0.912217752
CAP1	-0.919177628	-0.992186698	-0.07300907	0.950653125	-0.706330101	0.511527238	0.903538766	CAP1	-0.919177628	-0.979060085	-0.059882457	0.959342278	-0.735322441	0.495165386	0.912217752
GRM3	-0.464968289	-0.654575475	-0.189607186	0.876844434	-0.706595286	0.511375899	0.903538766	GRM3	-0.464968289	-0.341334396	0.123633893	1.089475605	0.731181196	0.49747972	0.912217752
SRCN1	-0.594860858	-0.269659877	0.325200981	1.252838959	0.952397233	0.384632461	0.902826709	SRCN1	-0.594860858	-0.458447398	0.13641346	1.099169182	0.727338983	0.499633747	0.912217752
MARK1	-0.368869126	-0.555175301	-0.186306175	0.878853027	-1.239777036	0.27006908	0.902826709	MARK1	-0.368869126	-0.560078554	-0.191209428	0.87587116	-0.725834865	0.50047877	0.912217752
SYGP1	-0.151534854	0.135662927	0.287197781	1.220267787	2.458639545	0.057324354	0.902826709	SYGP1	-0.151534854	0.034755817	0.186290672	1.137834454	0.724385012	0.501294255	0.912217752
GPDM	-1.220620778	-1.420229867	-0.199609089	0.870786479	-1.062756059	0.336503641	0.902826709	GPDM	-1.220620778	-1.272428807	-0.051808029	0.964726547	-0.723532536	0.501774174	0.912217752
TBA1A	-0.235333349	-0.222092504	0.013240845	1.0092201	0.503547392	0.635974722	0.930506741	TBA1A	-0.235333349	-0.217438478	0.017894871	1.012481025	0.723200671	0.501961091	0.912217752
GNAZ	0.368149989	0.101740113	-0.266409876	0.831385865	-1.49932414	0.194072063	0.902826709	GNAZ	0.368149989	0.245773567	-0.122376422	0.918673156	-0.710785057	0.508988939	0.914503276
AP180	-0.181733958	-0.110180412	0.071553547	1.050847666	0.945405138	0.387862696	0.902826709	AP180	-0.181733958	-0.110980058	0.070753901	1.050265371	0.705957879	0.511739714	0.914503276
2AAA	-0.587986451	-0.645871526	-0.057885075	0.960671388	-1.374534353	0.241254603	0.902826709	2AAA	-0.587986451	-0.612092164	-0.024105713	0.983430011	-0.705332067	0.512097085	0.914503276
COR1C	-1.895583827	-1.670348555	0.225235273	1.168967867	0.584554061	0.590229795	0.922353168	COR1C	-1.895583827	-1.77140737	0.124176457	1.089885409	0.71685301	0.513094153	0.914503276
CO3	0.282831856	0.312393852	0.029561996	1.020702193	0.559016318	0.600261586	0.922353168	CO3	0.282831856	0.234313852	-0.048518004	0.966929088	-0.699709917	0.515315338	0.914503276
MK01	-0.074458327	-0.14120157	-0.066743243	0.954790924	-0.335859872	0.750611682	0.948822069	MK01	-0.074458327	0.055922679	0.130381006	1.094582735	0.692375477	0.519534588	0.91768259
FLOT2	0.604463503	0.572572238	-0.031891265	0.978137192	-0.075046623	0.943087691	0.983039409	FLOT2	0.604463503	0.831563506	0.227100003	1.170479773	0.684838893	0.523894632	0.918839738
RGS7	0.939227562	0.825983303	-0.113244259	0.924506739	-1.114198113	0.31586678	0.902826709	RGS7	0.939227562	1.034993028	0.095765467	1.068632254	0.682846721	0.525051279	0.918839738
CLH1	-0.071769947	-0.126482718	-0.054712771	0.962786107	-1.76492216	0.137846394	0.902826709	CLH1	-0.071769947	-0.108376018	-0.036606071	0.974945804	-0.67704504	0.52842955	0.919433583

GBRB3	0.403462685	0.630698815	0.22723613	1.170590219	0.727809956	0.499369358	0.902826709	GBRB3	0.403462685	0.528205734	0.124743049	1.090313525	0.673919913	0.530255347	0.919433583
GBRA1	1.076692655	0.974585875	-0.10210678	0.93167147	-0.448415674	0.672617359	0.930506741	GBRA1	1.076692655	1.225099469	0.148406814	1.108344837	0.668908636	0.533191928	0.920303876
UBE2N	-0.289475882	-0.244581899	0.044893984	1.031607369	0.725250387	0.500807404	0.902826709	UBE2N	-0.289475882	-0.354854904	-0.065379021	0.955694207	-0.648861874	0.545047573	0.931922263
GRM1	-1.608017574	-1.96946438	-0.361446806	0.778383587	-0.853114634	0.432553604	0.902826709	GRM1	-1.608017574	-1.833050534	-0.225032961	0.855575478	-0.648362522	0.545345093	0.931922263
PRS7	-0.381097347	-0.406396586	-0.025299239	0.982616766	-1.171575857	0.294152108	0.902826709	PRS7	-0.381097347	-0.334382608	0.046714739	1.032910132	0.641960079	0.549169175	0.931922263
GRM5	-0.323217945	-0.143576236	0.179641709	1.13260257	1.183768833	0.289710783	0.902826709	GRM5	-0.323217945	-0.185834485	0.137383461	1.09990846	0.636193067	0.552628676	0.931922263
DLGP1	1.474360674	1.301380151	-0.172980524	0.88700828	-0.486274099	0.647335927	0.930506741	DLGP1	1.474360674	1.311754919	-0.162605755	0.893409961	-0.635481722	0.553056375	0.931922263
DGKA	-0.175770979	-0.239406392	-0.063635413	0.956849935	-0.834046919	0.442265245	0.902826709	DGKA	-0.175770979	-0.23920752	-0.063436541	0.956981844	-0.632725433	0.554715633	0.931922263
C2C2L	-0.73809664	-0.697894978	0.040201661	1.028257547	0.567752066	0.594747484	0.922353168	C2C2L	-0.73809664	-0.696379979	0.041716661	1.029337906	0.620923681	0.561856482	0.939742258
KCC2A	0.632904519	0.612769193	-0.020135326	0.986140199	-0.40366694	0.703142319	0.942509917	KCC2A	0.632904519	0.684758873	0.051854354	1.036596447	0.609388998	0.568892304	0.940253987
KCNA1	0.08735103	0.332366863	0.245015833	1.185105777	0.830078722	0.44430697	0.902826709	KCNA1	0.08735103	-0.055812324	-0.143163354	0.905531446	-0.601537786	0.573713067	0.940253987
SC6A1	-0.277189061	-0.208259822	0.068929239	1.048937878	0.619812779	0.562531674	0.922200346	SC6A1	-0.277189061	-0.182300689	0.094888372	1.06798277	0.601462068	0.573759684	0.940253987
DYHC1	0.045242359	0.095592845	0.050350486	1.03551646	0.826519092	0.446144523	0.902826709	DYHC1	0.045242359	0.079769778	0.034527419	1.024221265	0.590749454	0.5803789	0.940253987
AP3B2	0.068238042	-0.136930395	-0.205168436	0.867437407	-1.424073973	0.213725294	0.902826709	AP3B2	0.068238042	0.183538619	0.115300577	1.083200701	0.588512022	0.581767354	0.940253987
CLAP2	0.171460711	-0.152073112	-0.323533823	0.799110091	-1.402535063	0.219691404	0.902826709	CLAP2	0.171460711	0.057449838	-0.114010873	0.924015608	-0.583782843	0.584708828	0.940253987
ADDB	1.009040246	0.987517677	-0.021522569	0.985192418	-0.587831364	0.582190148	0.922353168	ADDB	1.009040246	0.957170461	-0.051869786	0.964685251	-0.578193691	0.588196971	0.940253987
AAKG2	0.555293712	0.644394807	0.089101095	1.063707208	1.144976312	0.304050376	0.902826709	AAKG2	0.555293712	0.627020009	0.071726297	1.050973503	0.570494033	0.593023052	0.940253987
SPTB1	0.645816048	0.698754834	0.052938787	1.03737592	0.469023087	0.658792131	0.930506741	SPTB1	0.645816048	0.597299775	-0.048516272	0.966930249	-0.567108222	0.59515284	0.940253987
SYN2	0.355085231	0.305369265	-0.049715966	0.966126519	-0.643545634	0.548220517	0.918102039	SYN2	0.355085231	0.435258006	0.080172775	1.057144635	0.566456225	0.595563497	0.940253987
SAR1B	0.510999606	0.485290347	-0.025709259	0.982337542	-0.172726189	0.869640875	0.982274947	SAR1B	0.510999606	0.451434635	-0.059564971	0.959553419	-0.566352406	0.595628903	0.940253987
CO2	0.01334442	-0.248435652	-0.261780072	0.83405818	-1.874358992	0.119741118	0.902826709	CO2	0.01334442	-0.054125483	-0.067469903	0.954310133	-0.565506014	0.596162291	0.940253987
VATD	-0.436926409	-0.401670404	0.035256005	1.024738646	0.38861201	0.713560122	0.946149117	VATD	-0.436926409	-0.390422814	0.046503595	1.032758973	0.565176348	0.596370121	0.940253987
ATLA1	1.065463019	0.921346469	-0.14411655	0.904933354	-1.100582642	0.321220005	0.902826709	ATLA1	1.065463019	1.130979116	0.065516097	1.046459224	0.561003117	0.599004808	0.940253987
VAT1L	-1.428191836	-1.381364046	0.04682779	1.032991075	0.332451605	0.753033388	0.948822069	VAT1L	-1.428191836	-1.316978316	0.111213519	1.080136409	0.560260932	0.599474103	0.940253987
RAB14	0.029905715	0.0443341	0.014428386	1.010051172	0.33721106	0.749652509	0.948822069	RAB14	0.029905715	-0.024455275	-0.054360989	0.963020898	-0.555344122	0.602588635	0.941233488
ARC1A	-0.784531217	-0.807522924	-0.022991706	0.98418968	-0.291760513	0.782187148	0.959375921	ARC1A	-0.784531217	-0.839976635	-0.055445418	0.962297297	-0.546908	0.607954865	0.945584791
VINC	-0.216855797	-0.161409449	0.055446348	1.03918056	0.26518318	0.801453979	0.959375921	VINC	-0.216855797	-0.355483797	-0.138628	0.908382614	-0.540697386	0.611923422	0.945584791
STX1A	1.632005348	1.782451759	0.150446411	1.109912858	2.694896281	0.043045862	0.902826709	STX1A	1.632005348	1.675931479	0.04392613	1.030915532	0.532154688	0.617406881	0.945584791
SYT1	0.622611261	0.584629941	-0.03798132	0.97401688	-1.070265918	0.333420857	0.902826709	SYT1	0.622611261	0.595932756	-0.026678506	0.981677799	-0.530474504	0.61848872	0.945584791
RABE1	-0.841491624	-1.111523828	-0.270032204	0.829301034	-1.520196842	0.188936599	0.902826709	RABE1	-0.841491624	-0.986389517	-0.144897892	0.904443388	-0.528627245	0.6196794	0.945584791
VAPB	0.911218548	0.957861078	0.04664253	1.032858435	0.2569301	0.807470425	0.962614207	VAPB	0.911218548	1.065613975	0.154395427	1.112955128	0.52753558	0.620383672	0.945584791
CYFP1	0.105746486	0.203161989	0.097415504	1.069855167	0.774618888	0.473584929	0.902826709	CYFP1	0.105746486	0.168041175	0.062294689	1.044125182	0.508969861	0.632431236	0.95376722
LDHA	-1.089560385	-1.143638516	-0.054078132	0.963209728	-1.439157855	0.209639164	0.902826709	LDHA	-1.089560385	-1.034940435	0.05461995	1.038585472	0.502934701	0.636375802	0.95376722
DPYL1	0.567831653	0.565958279	-0.001873374	0.998702319	-0.048356967	0.963303904	0.984847936	DPYL1	0.567831653	0.584943521	0.017111868	1.011931664	0.50226282	0.636815791	0.95376722
RB39A	-0.496818807	-0.433104732	0.063714074	1.045152942	0.635531558	0.553026404	0.918102039	RB39A	-0.496818807	-0.464882005	0.031936802	1.022383744	0.49801838	0.639599227	0.95376722
PTPR2	-0.103779069	0.079290891	0.183069959	1.135297154	1.137146819	0.307019092	0.902826709	PTPR2	-0.103779069	0.021053791	0.12483286	1.090381402	0.49604798	0.640893674	0.95376722
ALDOA	-0.226428335	-0.20619472	0.020233615	1.014123683	0.380325274	0.719324961	0.946609256	ALDOA	-0.226428335	-0.193912338	0.032515998	1.02279428	0.491701222	0.643754378	0.95376722
NNTM	2.85451049	2.994137294	0.139626804	1.101620112	1.435141165	0.210719932	0.902826709	NNTM	2.85451049	2.798501228	-0.056009262	0.961921279	-0.491401427	0.643951939	0.95376722
ATPO	-0.412818504	-0.4226321	-0.009813596	0.993220817	-0.163583902	0.876465356	0.982274947	ATPO	-0.412818504	-0.452738906	-0.039920402	0.972708614	-0.488391041	0.645937588	0.95376722
RHG01	0.110233745	-0.019333624	-0.129567369	0.914105528	-0.639805846	0.550459795	0.918102039	RHG01	0.110233745	-0.011050467	-0.121284212	0.919368912	-0.477161329	0.65337412	0.958743364
ARP2	-0.610899928	-0.638293505	-0.027393577	0.981191352	-0.321464247	0.76086214	0.949228553	ARP2	-0.610899928	-0.648514268	-0.03761434	0.974264673	-0.47564711	0.654380391	0.958743364
ARPC3	-0.660565047	-0.667267229	-0.006702182	0.995365176	-0.146478214	0.889266549	0.982274947	ARPC3	-0.660565047	-0.626831808	0.033733239	1.023657604	0.469199923	0.658674149	0.960251458
AOFB	2.730538547	2.603624285	-0.126914262	0.915788109	-0.736867652	0.494303796	0.902826709	AOFB	2.730538547	2.606810258	-0.123728288	0.917812723	-0.460139574	0.66473349	0.960251458
SNAB	0.085055462	0.107736488	0.022681025	1.015845518	0.2805837	0.790269032	0.959375921	SNAB	0.085055462	0.03153824	-0.053517223	0.96358429	-0.457408658	0.666565596	0.960251458

GDIA	0.374635824	0.423345453	0.048709629	1.03433938	0.904384251	0.407254032	0.902826709	GDIA	0.374635824	0.383336267	0.008700443	1.006048909	0.450733153	0.671055114	0.960251458
RAB3A	-0.083310184	-0.150475648	-0.067165464	0.954511534	-1.708042018	0.148330994	0.902826709	RAB3A	-0.083310184	-0.10987041	-0.026560226	0.981758286	-0.44663596	0.673818362	0.960251458
SPTA1	0.845904753	0.645268273	-0.20063648	0.870166584	-2.741379866	0.040725197	0.902826709	SPTA1	0.845904753	0.906973937	0.061069184	1.04323862	0.44579132	0.674388735	0.960251458
CACB4	-0.307502665	-0.459044965	-0.1515423	0.900287504	-1.442087105	0.208854328	0.902826709	CACB4	-0.307502665	-0.380382084	-0.072879419	0.950738561	-0.443721132	0.675787752	0.960251458
NFL	1.498545076	1.568298777	0.069753701	1.04953749	0.361354419	0.732601768	0.948822069	NFL	1.498545076	1.399137564	-0.099407512	0.933416249	-0.439470195	0.67866515	0.960251458
EFHD2	-1.019477286	-1.108492027	-0.089014741	0.940164596	-0.60251373	0.57311243	0.922353168	EFHD2	-1.019477286	-1.103818461	-0.084341175	0.943215169	-0.435886066	0.681096028	0.960251458
GBRB1	0.281527835	0.296262108	0.014734273	1.010265351	0.134771451	0.898049794	0.982274947	GBRB1	0.281527835	0.232370313	-0.049157522	0.966500563	-0.434985318	0.681707637	0.960251458
KCRB	-0.181450696	-0.177953949	0.003496746	1.0024267	0.063090519	0.952138929	0.983039409	KCRB	-0.181450696	-0.20899709	-0.027546394	0.981087425	-0.431322163	0.684197779	0.960251458
SCOT1	-0.977178562	-0.949689445	0.027489117	1.01923669	0.236075142	0.822739989	0.96278586	SCOT1	-0.977178562	-0.935466541	0.041712021	1.029334595	0.428830894	0.685893899	0.960251458
C1TC	-0.756915417	-0.240580729	0.516334688	1.430316764	1.24525795	0.268212869	0.902826709	C1TC	-0.756915417	-0.854993077	-0.09807766	0.934277053	-0.409440557	0.699166393	0.964868763
SNP25	1.062127696	0.989351175	-0.072776521	0.950806374	-0.166753372	0.874098014	0.982274947	SNP25	1.062127696	1.16193124	0.099803544	1.071627526	0.408074692	0.700105998	0.964868763
CPNS1	0.173607181	0.14465263	-0.028954551	0.980130292	-0.524596719	0.622281927	0.930506741	CPNS1	0.173607181	0.29698311	0.123375929	1.089280816	0.402994054	0.703606396	0.964868763
Q6PJ43	-0.21647919	-0.199938294	0.016540895	1.011531253	0.582001868	0.585818937	0.922353168	Q6PJ43	-0.21647919	-0.192773858	0.023705332	1.01656702	0.39476133	0.709296152	0.964868763
ALDR	0.04682112	0.000547429	-0.046273691	0.968434452	-0.4488812	0.672303391	0.930506741	ALDR	0.04682112	0.126256826	0.079435706	1.056604681	0.393847224	0.709929241	0.964868763
STXB1	0.897692299	0.856455851	-0.041236449	0.9718217	-0.474078928	0.6554234	0.930506741	STXB1	0.897692299	0.88140429	-0.016288009	0.988773505	-0.393717707	0.710018962	0.964868763
NMDE2	-0.323269363	-0.274220514	0.049048848	1.034582611	0.207100471	0.844101576	0.975750445	NMDE2	-0.323269363	-0.379836846	-0.056567484	0.961549155	-0.391049293	0.711868668	0.964868763
PIPNB	-1.379793907	-1.294078195	0.085715712	1.061214072	0.948853417	0.386266923	0.902826709	PIPNB	-1.379793907	-1.337358225	0.042435682	1.029851043	0.390573488	0.712198726	0.964868763
ENOA	-0.246780702	-0.330832128	-0.084051426	0.943404622	-1.180815316	0.290781115	0.902826709	ENOA	-0.246780702	-0.269135385	-0.022354683	0.984624346	-0.387246166	0.714508824	0.964868763
TPIS	0.115703152	0.123079496	0.007376343	1.005125985	0.114572218	0.913242888	0.982274947	TPIS	0.115703152	0.136571963	0.020868811	1.014570284	0.386945701	0.714717602	0.964868763
GRP78	-0.248057077	-0.223751004	0.024306073	1.016990409	0.272806587	0.795910376	0.959375921	GRP78	-0.248057077	-0.221338397	0.02671868	1.018692536	0.37800343	0.720944023	0.969810821
SEPT8	-0.081857021	-0.058028957	0.023828064	1.016653505	0.241580595	0.818700025	0.96278586	SEPT8	-0.081857021	-0.052875287	0.028981734	1.020291741	0.368340558	0.727699833	0.975427436
KCC2D	0.448948905	0.328946253	-0.120002652	0.920185959	-1.492206576	0.195853926	0.902826709	KCC2D	0.448948905	0.419744858	-0.029204047	0.979960805	-0.363138634	0.731348459	0.976350752
AINX	1.762545451	1.84155794	0.079012489	1.056294769	0.431710219	0.683933769	0.936274417	AINX	1.762545451	1.684927841	-0.07761761	0.947621207	-0.350062418	0.740555528	0.976350752
CTNB1	-0.357797241	-0.368569518	-0.010772277	0.992561034	-0.104411852	0.920901514	0.983039409	CTNB1	-0.357797241	-0.405771206	-0.047973965	0.967293786	-0.349974872	0.740617339	0.976350752
NRX3A	-0.515789155	-0.516379663	-0.000590509	0.999590774	-0.002288399	0.998262618	0.998556552	NRX3A	-0.515789155	-0.423324379	0.092464775	1.066190162	0.337851416	0.749198116	0.976350752
GHC1	-0.793715251	-1.022003925	-0.228288674	0.853646888	-2.911428252	0.033344275	0.902826709	GHC1	-0.793715251	-0.833359447	-0.039644196	0.972894857	-0.33285962	0.752743307	0.976350752
GNAS2	0.44199419	0.669540633	0.227546442	1.170842032	0.984501454	0.37007976	0.902826709	GNAS2	0.44199419	0.483939034	0.041944844	1.029500724	0.332576427	0.75294464	0.976350752
KAP2	-0.746692649	-0.472536272	0.274156377	1.209286746	1.575309315	0.176004021	0.902826709	KAP2	-0.746692649	-0.668198133	0.078494516	1.055915595	0.331973072	0.753373663	0.976350752
NAC1	-0.097874783	-0.189550104	-0.091675321	0.938432367	-0.741435804	0.49176286	0.902826709	NAC1	-0.097874783	-0.160436485	-0.062561702	0.957562326	-0.324530472	0.758674065	0.976350752
MARE2	1.233767279	1.18090971	-0.05285757	0.964024977	-0.809068909	0.455235345	0.902826709	MARE2	1.233767279	1.213250844	-0.020516436	0.98587973	-0.320673761	0.761426648	0.976350752
AK1C1	1.046419591	1.148183598	0.101764007	1.073084739	0.535536551	0.615232694	0.926681406	AK1C1	1.046419591	0.960725521	-0.08569407	0.942331078	-0.318210228	0.763187	0.976350752
TAU	0.755130151	0.675508578	-0.079621572	0.946305836	-1.192209077	0.286671383	0.902826709	TAU	0.755130151	0.774996395	0.019866244	1.013865477	0.317815817	0.763468983	0.976350752
NCAN	1.557667942	0.979377221	-0.578290721	0.669756823	-2.701757106	0.042694338	0.902826709	NCAN	1.557667942	1.449968314	-0.107699628	0.928066682	-0.316945954	0.764091037	0.976350752
VATA	-0.442174044	-0.297305471	0.144868572	1.105629927	2.588214074	0.048942585	0.902826709	VATA	-0.442174044	-0.454957575	-0.012783532	0.991178273	-0.312333024	0.767393179	0.976350752
CPT1A	1.166972641	1.325695905	0.158723264	1.116298815	0.909169875	0.404952902	0.902826709	CPT1A	1.166972641	1.108189351	-0.05878329	0.960073465	-0.310138812	0.768965866	0.976350752
VATB2	-0.487983277	-0.479802317	0.00818096	1.005686718	0.247658478	0.814247406	0.962614207	VATB2	-0.487983277	-0.498338963	-0.010355686	0.992847686	-0.306922621	0.771273326	0.976350752
ARF1	-0.174277297	-0.147853271	0.026424026	1.018484501	1.355792077	0.233183811	0.902826709	ARF1	-0.174277297	-0.185091257	-0.010813959	0.992532357	-0.302001689	0.77480904	0.976350752
EF1A1	-1.057948955	-1.035676859	0.022272096	1.015557619	0.54567761	0.608739872	0.926681406	EF1A1	-1.057948955	-1.076023894	-0.018074939	0.987549563	-0.29385253	0.780677841	0.976350752
CBR1	1.560994107	1.129674868	-0.431319239	0.741583351	-1.938519368	0.110279832	0.902826709	CBR1	1.560994107	1.65467706	0.093682953	1.067090808	0.287765497	0.78507241	0.976350752
CALB1	-3.639425809	-3.673637229	-0.03421142	0.976565407	-0.337697876	0.749307057	0.948822069	CALB1	-3.639425809	-3.568337993	0.071087816	1.050508486	0.285884168	0.786432493	0.976350752
KAD1	-1.366180911	-1.261903646	0.104277266	1.074955744	0.637884693	0.551612442	0.918102039	KAD1	-1.366180911	-1.347874656	0.018306255	1.012769775	0.284522259	0.787417608	0.976350752
GRM2	-0.322714314	-0.099524841	0.223189473	1.167311398	1.05443777	0.339946511	0.902826709	GRM2	-0.322714314	-0.194126227	0.128588087	1.09322328	0.283263067	0.788328826	0.976350752
OGDHL	-0.402094346	-0.417923474	-0.015829128	0.989088057	-0.101145284	0.923365882	0.983039409	OGDHL	-0.402094346	-0.462073131	-0.059978785	0.959278225	-0.281559025	0.789562571	0.976350752
SDHB	-0.78076249	-0.645014458	0.135748032	1.098662318	1.19849112	0.28442764	0.902826709	SDHB	-0.78076249	-0.795094785	-0.014332296	0.990114793	-0.277199249	0.792722273	0.976350752

MYPR	1.14587274	1.236308976	0.090436237	1.064692071	0.485835203	0.647626045	0.930506741	MYPR	1.14587274	1.067188879	-0.078683861	0.946921108	-0.275482204	0.793967926	0.976350752
FARP2	1.231087663	1.323097772	0.092010109	1.065854205	0.428519788	0.686105856	0.936274417	FARP2	1.231087663	1.151568137	-0.079519526	0.946372774	-0.272015134	0.796485278	0.976350752
BAIP2	-0.082513978	-0.091376762	-0.008862784	0.993875617	-0.061328388	0.95347366	0.983039409	BAIP2	-0.082513978	-0.132975315	-0.050461337	0.965627497	-0.271086191	0.797160239	0.976350752
AP2A2	0.011903043	0.182889195	0.170986152	1.12582778	0.541462829	0.611433487	0.926681406	AP2A2	0.011903043	0.094945571	0.083042528	1.059249559	0.267197555	0.799987857	0.976350752
AAKG1	-0.456370928	-0.509693028	-0.0533221	0.963714622	-0.925339021	0.397254144	0.902826709	AAKG1	-0.456370928	-0.478581319	-0.022210391	0.984722829	-0.265959631	0.800888744	0.976350752
SEPT3	0.38801413	0.266348	-0.12166613	0.919125564	-1.604673831	0.16947172	0.902826709	SEPT3	0.38801413	0.412812954	0.024798824	1.01733782	0.26265706	0.803293872	0.976350752
DIRA2	-0.293191225	-0.201168205	0.09202302	1.065863743	1.942042107	0.109783303	0.902826709	DIRA2	-0.293191225	-0.280505344	0.01268588	1.008831956	0.258820327	0.80609111	0.976610383
SHLB2	0.263435125	0.56065042	0.297215296	1.228770338	2.389053157	0.062460853	0.902826709	SHLB2	0.263435125	0.320199662	0.056764538	1.040130493	0.241446042	0.818798686	0.987619172
SYN1	0.53361535	0.427821302	-0.105794048	0.929293326	-2.193233799	0.079770925	0.902826709	SYN1	0.53361535	0.55517923	0.02156388	1.015059207	0.237996516	0.821329347	0.987619172
2ABA	-1.370248939	-1.179222387	0.191026552	1.141575717	1.53225959	0.186029077	0.902826709	2ABA	-1.370248939	-1.415845473	-0.045596534	0.968889112	-0.235471173	0.823183569	0.987619172
PP2AA	-0.50773158	-0.569010548	-0.061278968	0.958414096	-0.952890134	0.384405571	0.902826709	PP2AA	-0.50773158	-0.520844674	-0.013113095	0.990951878	-0.232143733	0.825628726	0.987619172
PRS8	-0.452794587	-0.645327625	-0.192533038	0.875067955	-1.092403131	0.324473456	0.902826709	PRS8	-0.452794587	-0.504422229	-0.051627642	0.964847178	-0.217330121	0.83654126	0.992907726
DCE1	-1.668138328	-1.886000909	-0.217862581	0.859838383	-0.816526761	0.451333312	0.902826709	DCE1	-1.668138328	-1.706889973	-0.038751645	0.973496944	-0.213587506	0.839305005	0.992907726
RALA	0.108908607	0.060368435	-0.048540172	0.966914231	-0.461449382	0.663855711	0.930506741	RALA	0.108908607	0.096695735	-0.012212872	0.991570412	-0.202261994	0.847684196	0.992907726
ACTN4	2.076210634	1.921317158	-0.154893476	0.898198691	-1.298074152	0.250911724	0.902826709	ACTN4	2.076210634	2.046925623	-0.029285011	0.979905811	-0.198773296	0.850269978	0.992907726
L1CAM	-0.121682267	0.0340177	0.155699968	1.11396196	0.761324914	0.480808365	0.902826709	L1CAM	-0.121682267	-0.079513309	0.042168958	1.029660663	0.192811894	0.854693421	0.992907726
HOME2	0.44543948	0.627601622	0.182162142	1.134582992	1.099500812	0.32164869	0.902826709	HOME2	0.44543948	0.486391599	0.040952119	1.028792563	0.186692841	0.859240146	0.992907726
SYT2	0.503823794	0.476243894	-0.0275799	0.98106464	-0.56788673	0.594662723	0.922353168	SYT2	0.503823794	0.494262266	-0.009561528	0.993394368	-0.186408615	0.85945149	0.992907726
COPG1	-0.672159307	-0.536707679	0.135451629	1.09843662	1.404487574	0.219144138	0.902826709	COPG1	-0.672159307	-0.660887017	0.01127229	1.00784396	0.185838263	0.859875631	0.992907726
PRDX1	-0.950115954	-0.945447817	0.004668138	1.003240947	0.032992221	0.974957316	0.98544248	PRDX1	-0.950115954	-0.922654729	0.027461226	1.019216985	0.183007407	0.861981585	0.992907726
TBB5	0.336547224	0.29883214	-0.037715084	0.974196643	-0.719681838	0.503946008	0.902826709	TBB5	0.336547224	0.329040404	-0.00750682	0.994810183	-0.179117439	0.86487756	0.992907726
RHG35	0.82781301	0.977145431	0.149332421	1.109056159	0.8346089	0.441976668	0.902826709	RHG35	0.82781301	0.785180976	-0.042632034	0.970882066	-0.172991266	0.869443189	0.992907726
CUL3	0.179706106	0.258180717	0.078474612	1.055901026	1.064509753	0.335781591	0.902826709	CUL3	0.179706106	0.15609145	-0.023614656	0.983764803	-0.170726878	0.871132234	0.992907726
CNTN1	0.887863012	0.869850258	-0.018012753	0.987592131	-0.333454781	0.752320256	0.948822069	CNTN1	0.887863012	0.900061851	0.01219884	1.008491441	0.170671079	0.871173865	0.992907726
VGLU1	-0.075970089	-0.044317352	0.031652738	1.022182458	0.600907263	0.574101328	0.922353168	VGLU1	-0.075970089	-0.04966495	0.02630514	1.018400576	0.168193968	0.873022495	0.992907726
VP26B	0.100571788	0.075841984	-0.024729804	0.983004684	-0.139514743	0.894488962	0.982274947	VP26B	0.100571788	0.146309789	0.045738002	1.032211065	0.163512464	0.876518731	0.992907726
NBEA	-1.307102663	-1.080154666	0.226947997	1.170356454	1.108051157	0.318273963	0.902826709	NBEA	-1.307102663	-1.349627744	-0.042525081	0.970954044	-0.160021866	0.87912766	0.992907726
G3P	-0.390918262	-0.358124341	0.032793921	1.022991332	0.928249534	0.395880783	0.902826709	G3P	-0.390918262	-0.382324962	0.0085933	1.005974197	0.151953374	0.885164781	0.992907726
CAP2	1.326818562	1.384297205	0.057478643	1.040645464	0.441994159	0.676955962	0.930506741	CAP2	1.326818562	1.3087619	-0.018056663	0.987562074	-0.144535439	0.89072295	0.992907726
HUWE1	0.245326254	0.192714387	-0.052611867	0.964189172	-0.918578747	0.400458707	0.902826709	HUWE1	0.245326254	0.234945096	-0.010381159	0.992830156	-0.144466754	0.890774449	0.992907726
GEPH	-0.631643395	-0.736377849	-0.104734454	0.929976101	-0.858448916	0.429866101	0.902826709	GEPH	-0.631643395	-0.653756809	-0.022113414	0.984789023	-0.136454173	0.896786243	0.992907726
E41L3	0.945980971	1.156459445	0.210478474	1.157071867	1.302042385	0.249654064	0.902826709	E41L3	0.945980971	0.969800968	0.023819997	1.01664782	0.135003935	0.897875201	0.992907726
CN37	1.764296981	1.68807217	-0.076224811	0.948536496	-0.692778257	0.519302271	0.909986598	CN37	1.764296981	1.738024377	-0.026272604	0.981954033	-0.133871411	0.898725772	0.992907726
GDAP1	1.027544496	1.08716038	0.059615885	1.042188243	0.264990004	0.801594626	0.959375921	GDAP1	1.027544496	1.092999711	0.065455216	1.046415065	0.133276832	0.899172386	0.992907726
ACTZ	-1.296525618	-1.263332447	0.033193171	1.023274473	0.716399939	0.505802209	0.902826709	ACTZ	-1.296525618	-1.29107844	0.005447178	1.003782833	0.132371965	0.899852152	0.992907726
GSTM3	0.421809563	0.242837197	-0.178972365	0.883331972	-1.090014957	0.325428696	0.902826709	GSTM3	0.421809563	0.389668258	-0.032141305	0.977967682	-0.130896065	0.900961106	0.992907726
NTRK2	-0.146474029	0.083125945	0.229599973	1.172509794	1.226596644	0.274580488	0.902826709	NTRK2	-0.146474029	-0.129390285	0.017083744	1.011911938	0.130429211	0.901311942	0.992907726
RUFY3	0.237350207	0.30885101	0.071500803	1.050809248	0.466897846	0.660210938	0.930506741	RUFY3	0.237350207	0.253605729	0.016255521	1.011331186	0.127559977	0.903468697	0.992907726
B4DV12	-0.056893294	0.004999749	0.061893043	1.043834538	1.423312208	0.213933649	0.902826709	B4DV12	-0.056893294	-0.063444631	-0.006551338	0.995469254	-0.124711149	0.905611048	0.992907726
GRIA1	-0.950891526	-1.139598208	-0.188706682	0.877391916	-0.591048963	0.580193194	0.922353168	GRIA1	-0.950891526	-0.9863052	-0.035413674	0.975751936	-0.117743491	0.910854603	0.992907726
SYNJ1	-0.551402979	-0.399770894	0.151632084	1.11082541	1.679328526	0.153924631	0.902826709	SYNJ1	-0.551402979	-0.542500904	0.008902075	1.006189524	0.109903483	0.916760794	0.992907726
EPN1	0.336797194	0.320264146	-0.016533047	0.988605579	-0.148872942	0.887472024	0.982274947	EPN1	0.336797194	0.347146795	0.010349601	1.00719959	0.109697637	0.916915949	0.992907726
PYGB	0.446866709	0.534137143	0.087270434	1.062358307	1.379807444	0.226157337	0.902826709	PYGB	0.446866709	0.458800576	0.011933867	1.008306233	0.105546601	0.920045669	0.992907726
NFM	1.256281556	1.419379064	0.163097508	1.119688563	0.865816241	0.426175429	0.902826709	NFM	1.256281556	1.234853269	-0.021428287	0.985256804	-0.097566606	0.926066832	0.992907726

GRIA2	0.36292353	0.268796436	-0.094127094	0.936838913	-0.79933869	0.460363983	0.902826709	GRIA2	0.36292353	0.375512562	0.012589032	1.008764235	0.097523063	0.926099702	0.992907726
SRC	-0.192303401	-0.166806983	0.025496418	1.017829857	0.358270544	0.734770243	0.948822069	SRC	-0.192303401	-0.186241084	0.006062317	1.004210919	0.090663719	0.931279829	0.992907726
PSD11	-0.407912117	-0.318253759	0.089658358	1.064118161	0.985399291	0.369679335	0.902826709	PSD11	-0.407912117	-0.398544874	0.009367243	1.006514003	0.084820613	0.935695557	0.992907726
USO1	0.142885746	0.286484537	0.143598791	1.104657241	0.650150041	0.544280562	0.918102039	USO1	0.142885746	0.168145794	0.025260048	1.017663111	0.078974613	0.940116098	0.992907726
MBP	0.53938497	0.690027085	0.150642116	1.11006343	0.590866879	0.580306088	0.922353168	MBP	0.53938497	0.566172629	0.026787659	1.018741244	0.075909129	0.942435099	0.992907726
PPIA	-0.57568248	-0.579207437	-0.003524957	0.997559669	-0.056630299	0.957033075	0.983039409	PPIA	-0.57568248	-0.579842764	-0.004160284	0.997120465	-0.074208721	0.943721716	0.992907726
HPCL1	0.738710905	0.665165051	-0.073545854	0.950299481	-0.907168614	0.405913942	0.902826709	HPCL1	0.738710905	0.748526099	0.009815194	1.00682657	0.073091261	0.944567352	0.992907726
DCLK1	0.226123197	0.177003084	-0.049120113	0.966525625	-0.444131443	0.675510349	0.930506741	DCLK1	0.226123197	0.236087979	0.009964782	1.006930969	0.071819066	0.945530184	0.992907726
CDK5	-0.167852819	-0.330491052	-0.162638233	0.893389848	-1.286950432	0.254468312	0.902826709	CDK5	-0.167852819	-0.156869001	0.010983817	1.007642458	0.071303712	0.945920247	0.992907726
PRS6A	-0.655152497	-0.753861834	-0.098709337	0.933868074	-0.444621468	0.675179129	0.930506741	PRS6A	-0.655152497	-0.67226482	-0.017112323	0.98820871	-0.066039361	0.94990572	0.992907726
SEP11	0.787356807	0.919212352	0.131855545	1.09570205	0.538070949	0.613606264	0.926681406	SEP11	0.787356807	0.7785124	-0.008844407	0.993888277	-0.060544346	0.954067592	0.992907726
EGFR	0.62313172	0.574029164	-0.049102556	0.966537387	-1.408687674	0.217971268	0.902826709	EGFR	0.62313172	0.620824745	-0.002306975	0.998402204	-0.059385071	0.954945833	0.992907726
SEPT4	0.558567029	0.458398194	-0.100168835	0.932923808	-0.683267063	0.524807086	0.909986598	SEPT4	0.558567029	0.563519355	0.004952326	1.003438589	0.058568518	0.955564478	0.992907726
DPYL2	0.734758956	0.726477676	-0.00828128	0.994276297	-0.23644341	0.822469553	0.96278586	DPYL2	0.734758956	0.731964624	-0.002794333	0.998064991	-0.055004127	0.958265381	0.992907726
SH3G2	0.08000135	0.172622405	0.092621056	1.066305664	1.090232833	0.325341448	0.902826709	SH3G2	0.08000135	0.084500078	0.004498728	1.003123148	0.053122496	0.959691438	0.992907726
CAD10	0.839003154	0.831047962	-0.007955192	0.994501056	-0.079026299	0.940077003	0.983039409	CAD10	0.839003154	0.833788855	-0.005214299	0.996392247	-0.048697064	0.963046063	0.992907726
CAND1	-0.019497018	0.03743435	0.056931367	1.040250778	0.455237875	0.668023804	0.930506741	CAND1	-0.019497018	-0.023185855	-0.003688838	0.997446359	-0.042122258	0.968031561	0.992907726
TBB2A	0.277491373	0.257108444	-0.02038293	0.985970967	-0.277487467	0.792513249	0.959375921	TBB2A	0.277491373	0.280714249	0.003222876	1.002236424	0.041962149	0.96815299	0.992907726
RHOB	0.513903803	0.538828694	0.024924891	1.017426722	0.26440863	0.802017966	0.959375921	RHOB	0.513903803	0.516394499	0.002490696	1.00172791	0.037735633	0.971358759	0.992907726
SDHA	-0.85527171	-0.796920235	0.058351475	1.041275246	0.51152128	0.630767779	0.930506741	SDHA	-0.85527171	-0.851076428	0.004195282	1.00291218	0.036944268	0.971959071	0.992907726
COPA	-0.472214286	-0.43827702	0.033937266	1.023802381	0.167197643	0.873766297	0.982274947	COPA	-0.472214286	-0.484023889	-0.011809602	0.99184762	-0.031269878	0.976264132	0.992907726
NCAM1	0.432902462	0.429451788	-0.003450674	0.997611033	-0.058799976	0.955389115	0.983039409	NCAM1	0.432902462	0.435747925	0.002845463	1.001974271	0.029622088	0.977514461	0.992907726
NDUAA	1.224697934	1.23782359	0.013125656	1.009139524	0.140566707	0.893699621	0.982274947	NDUAA	1.224697934	1.227773833	0.003075899	1.002134325	0.027585714	0.979059744	0.992907726
AP2M1	-0.130561631	-0.120237989	0.010323643	1.007181468	0.130759505	0.901063726	0.982274947	AP2M1	-0.130561631	-0.129230174	0.001331458	1.000923322	0.026421187	0.979943482	0.992907726
ABR	-0.037379061	0.095336881	0.132715942	1.096355701	0.803521855	0.45815388	0.902826709	ABR	-0.037379061	-0.031818813	0.005560248	1.003861507	0.019100067	0.985500032	0.992907726
UBA1	-0.741347007	-0.73653775	0.004809257	1.003339086	0.070409198	0.946597332	0.983039409	UBA1	-0.741347007	-0.742819877	-0.00147287	0.998979606	-0.017625726	0.986619144	0.992907726
GSH1	0.344841168	0.283309708	-0.06153146	0.958246375	-0.225742229	0.830339128	0.96278586	GSH1	0.344841168	0.348812402	0.003971234	1.002756442	0.015006764	0.988607177	0.992907726
KALRN	-0.062508569	-0.105120498	-0.042611928	0.970895597	-0.118285722	0.911543355	0.982274947	KALRN	-0.062508569	-0.090148909	-0.02764034	0.98102354	0.01322177	0.990280986	0.992907726
NSF	0.424775765	0.548987206	0.124211441	1.089911838	1.400586752	0.22023878	0.902826709	NSF	0.424775765	0.425016641	0.000240876	1.000166977	0.003299432	0.997495032	0.997495032

Reports the summary statistics for differences between the vehicle and haloperidol and vehicle and olanzapine groups.

eTable 6. Monkey APD Synaptosome

Haloperidol								Olanzapine							
ProName	control.ave	sz.ave	diff	FoldChange	statistic	pvalue	qvalue	ProName	control.ave	sz.ave	diff	FoldChange	statistic	pvalue	qvalue
1433E	-1.385079198	-1.341889499	0.043189699	1.03038943	2.795643776	0.038189475	0.599268681	1433E	-1.385079198	-1.344924682	0.040154516	1.028223946	1.400908814	0.220148208	0.701104385
1433G	-1.181604212	-1.157377243	0.02422697	1.016934648	0.765650022	0.478449581	0.787665904	1433G	-1.181604212	-1.08781102	0.093793192	1.06717235	5.045427047	0.003948611	0.543407796
1433T	-1.51909871	-1.545534576	-0.026435867	0.981842916	-0.513770584	0.629303345	0.856488668	1433T	-1.51909871	-1.496937499	0.022161211	1.015479567	0.679254815	0.52714109	0.840204914
1433Z	-1.823017184	-1.772300901	0.050716283	1.035779049	1.690709078	0.15168276	0.599268681	1433Z	-1.823017184	-1.766563492	0.056453692	1.039906409	2.268994023	0.072530093	0.701104385
2A5D	-0.06563952	-0.244883321	-0.179243801	0.883165793	-2.017078355	0.099741338	0.599268681	2A5D	-0.06563952	-0.226666035	-0.161026515	0.894388464	-1.580149763	0.174910446	0.701104385
2AAA	-0.798448641	-0.862583575	-0.064134935	0.956518691	-1.0316999	0.360506174	0.726116715	2AAA	-0.798448641	-0.918755899	-0.120307258	0.919991694	-1.825772625	0.165365321	0.701104385
2ABA	-1.197862038	-1.399732468	-0.20187043	0.869422641	-2.376027628	0.063476607	0.599268681	2ABA	-1.197862038	-1.289976009	-0.092113971	0.938147081	-0.842754	0.437810164	0.830736102
3HIDH	-1.126729332	-1.188243173	-0.06151384	0.958258078	-0.539765613	0.612520129	0.855259588	3HIDH	-1.126729332	-1.110292476	0.016436856	1.01145831	0.227885047	0.828761472	0.961363308
AAK1	0.885105929	0.904527365	0.019421435	1.013552933	0.519471569	0.625600302	0.855404931	AAK1	0.885105929	0.941375953	0.056270024	1.039774027	1.758578369	0.138977657	0.701104385
AAKG1	-1.643061768	-1.684256363	-0.041194594	0.971849894	-1.07316578	0.332236921	0.719846663	AAKG1	-1.643061768	-1.680425948	-0.037364179	0.974433624	-0.652980208	0.542597896	0.840204914

AAKG2	-0.074105278	-0.079933988	-0.00582871	0.995967997	-0.054184145	0.95888681	0.977027912	AAKG2	-0.074105278	-0.090622683	-0.016517405	0.988616297	-0.236736114	0.822254627	0.958518887
AATM	-1.052092866	-1.013022309	0.039070557	1.027451687	0.542752089	0.610608795	0.855259588	AATM	-1.052092866	-0.995188151	0.056904715	1.04023156	0.512623716	0.630049785	0.890624101
ABR	0.052019933	-0.190682369	-0.242702302	0.845160764	-1.31425505	0.245819853	0.677779043	ABR	0.052019933	-0.004185975	-0.056205908	0.961790174	-0.57307728	0.591401218	0.874346114
ACLY	-1.030129236	-0.972220139	0.057909096	1.040956005	0.578151745	0.588223197	0.849655729	ACLY	-1.030129236	-1.035382418	-0.005253182	0.996365393	-0.05934461	0.954976486	0.984662387
ACOC	-1.062525325	-1.02830533	0.034219995	1.024003038	0.190883893	0.856125331	0.93836189	ACOC	-1.062525325	-1.49814568	-0.435620355	0.739375757	-3.348763239	0.020356343	0.574601062
ACON	-1.009675354	-0.939105557	0.070569797	1.050131354	2.069003007	0.093357919	0.599268681	ACON	-1.009675354	-0.987997161	0.021678193	1.015139639	0.71417603	0.507062727	0.840204914
ACSL6	0.576811613	0.590869401	0.014057788	1.009791745	0.108267438	0.917994074	0.969827787	ACSL6	0.576811613	0.67402522	0.097213607	1.069705458	2.018010173	0.099622839	0.701104385
ACTN4	1.020400433	0.955784787	-0.064615646	0.956200029	-1.184289485	0.289522466	0.696820273	ACTN4	1.020400433	0.933524882	-0.086875551	0.941559681	-1.467981502	0.202037536	0.701104385
ACTZ	-1.148604644	-1.044690915	0.103913729	1.074684906	2.807800856	0.037645681	0.599268681	ACTZ	-1.148604644	-1.062227695	0.086376949	1.061700575	1.628549375	0.164337201	0.701104385
ADDA	0.160984051	0.213915978	0.052931927	1.037370987	1.292680689	0.252630433	0.682883507	ADDA	0.160984051	0.192448229	0.031464178	1.022048868	0.938121804	0.391250671	0.785904876
ADDB	-0.163775112	-0.187986636	-0.024211524	0.983357886	-0.638816785	0.551053013	0.821069404	ADDB	-0.163775112	-0.148831262	0.01494385	1.01041212	0.177137765	0.866352301	0.969183434
ADHX	-1.330667114	-1.321260191	0.009406923	1.006541686	0.19098595	0.856049518	0.93836189	ADHX	-1.330667114	-1.36380066	-0.033133547	0.977295297	-0.50699662	0.633719428	0.890624101
ADT1	1.062824155	1.093147393	0.030323238	1.021240911	0.855643667	0.431277833	0.7652291	ADT1	1.062824155	1.096873206	0.03404905	1.023881711	1.008809323	0.359364038	0.769774105
ADT3	1.049287916	1.094768887	0.045480971	1.032027183	0.39733006	0.717705313	0.893619869	ADT3	1.049287916	1.106510499	0.057222583	1.040460779	0.939362456	0.400729438	0.786848948
AINX	0.227826008	0.346765035	0.118939027	1.08593596	1.744693051	0.141486656	0.599268681	AINX	0.227826008	0.236754726	0.008928719	1.006208107	0.107755771	0.918379832	0.980250095
AIP	-1.05516519	-1.096207263	-0.041042073	0.971952642	-0.52264746	0.62354282	0.855404931	AIP	-1.05516519	-1.084253607	-0.029088417	0.980039351	-0.339751559	0.747850464	0.949291667
AK1C1	0.047537046	0.199083239	0.151546193	1.110759279	1.637725474	0.16240508	0.599268681	AK1C1	0.047537046	0.059714135	0.012177089	1.008476236	0.054369308	0.95874648	0.984870363
AKA12	1.527802578	1.676306722	0.148504144	1.108419613	1.718824201	0.146283593	0.599268681	AKA12	1.527802578	1.621425666	0.093623089	1.06704653	1.301134403	0.249941319	0.701104385
AL3A1	0.947308907	1.007533787	0.06022488	1.042628268	2.330590437	0.067161892	0.599268681	AL3A1	0.947308907	0.953506835	0.006197928	1.004305317	0.105014411	0.920447039	0.980250095
ALDH2	-1.009492421	-0.898177481	0.11131494	1.080212344	1.277436779	0.257546745	0.682883507	ALDH2	-1.009492421	-0.878711132	0.130781289	1.094886474	1.275432064	0.258199765	0.707019134
ALDOA	-0.340341509	-0.225933508	0.114408002	1.082530747	2.099624959	0.089795976	0.599268681	ALDOA	-0.340341509	-0.244605296	0.095736213	1.068610585	1.807652171	0.130466066	0.701104385
ALDOC	-0.845555812	-0.753366942	0.09218887	1.06598628	1.445085391	0.2080539	0.622510479	ALDOC	-0.845555812	-0.806530929	0.039024883	1.02741916	0.750660141	0.486660346	0.840204914
ALDR	-1.53027979	-1.474461407	0.055818384	1.039448574	0.443495475	0.675940339	0.875702776	ALDR	-1.53027979	-1.51083053	0.019449261	1.013572481	0.137732989	0.895826215	0.976856136
ANK1	0.815550482	0.872555488	0.057005006	1.040303876	1.927825949	0.111801373	0.599268681	ANK1	0.815550482	0.790519734	-0.025030747	0.982799653	-0.725871124	0.500458388	0.840204914
ANK2	0.657587124	0.729304359	0.071717236	1.050966902	3.497879233	0.017323693	0.599268681	ANK2	0.657587124	0.690064713	0.032477589	1.022767051	0.749174804	0.48747941	0.840204914
ANK3	-0.627445903	-0.870614392	-0.243168488	0.844887706	-1.084069292	0.327817383	0.719846663	ANK3	-0.627445903	-1.085301735	-0.457855832	0.728067527	-4.453375962	0.00668137	0.543407796
ANXA3	1.049505935	1.053801478	0.004295544	1.002981881	0.041332206	0.968630753	0.984295941	ANXA3	1.049505935	1.164997956	0.115492021	1.08334445	1.473210386	0.200687138	0.701104385
AOFB	1.957498967	2.027093324	0.069594357	1.049421576	0.827847786	0.445457956	0.781079635	AOFB	1.957498967	2.087519502	0.130020535	1.094309277	1.16096953	0.298064385	0.740068144
AP180	-0.553996629	-0.614741816	-0.060745186	0.958768764	-1.110437345	0.317337639	0.714099507	AP180	-0.553996629	-0.61821028	-0.064213651	0.956466503	-1.514142312	0.190412525	0.701104385
AP1B1	-0.026847945	0.017067366	0.04391531	1.0309078	1.165269671	0.296472721	0.696820273	AP1B1	-0.026847945	0.005331179	0.032179124	1.022555483	1.443115858	0.208579359	0.701104385
AP2A1	0.071103815	0.141443276	0.070339461	1.049963707	0.872782873	0.422708009	0.7652291	AP2A1	0.071103815	0.060920915	-0.0101829	0.992966602	-0.177839829	0.865829234	0.969183434
AP2A2	-0.009592579	0.230620778	0.240213357	1.181167329	2.175902599	0.081533374	0.599268681	AP2A2	-0.009592579	0.09243516	0.102027738	1.073280922	1.224831841	0.275189679	0.730369506
AP2B1	0.09921961	0.164766731	0.06554712	1.046481727	1.401607383	0.219951874	0.632991271	AP2B1	0.09921961	0.171497701	0.07227809	1.05137555	3.225197517	0.023330198	0.574601062
AP2M1	0.100202306	0.162815191	0.062612886	1.044355496	1.140039329	0.305919395	0.701430847	AP2M1	0.100202306	0.173101321	0.072899016	1.051828152	1.303902316	0.249066592	0.701104385
AP3B2	-0.299692749	-0.384660549	-0.0849678	0.942805578	-0.886247652	0.416068359	0.761445491	AP3B2	-0.299692749	-0.483023748	-0.183330999	0.880667298	-1.704672042	0.148976795	0.701104385
ARC1A	-0.508242252	-0.559008635	-0.050766383	0.965423344	-1.6364559	0.162671053	0.599268681	ARC1A	-0.508242252	-0.457824521	0.050417732	1.035564728	3.133735867	0.025848261	0.574601062
ARF1	-1.090006247	-1.125708363	-0.035702116	0.975556871	-0.294323371	0.780338299	0.919848905	ARF1	-1.090006247	-1.090409427	-0.00040318	0.999720576	-0.003412812	0.997408953	0.997824096
ARP2	-0.554659575	-0.47709177	0.077567805	1.055237548	0.853529172	0.432344292	0.7652291	ARP2	-0.554659575	-0.445951153	0.108708422	1.078262486	1.938053396	0.110345685	0.701104385
ARP3	-1.162265666	-1.128827159	0.033438507	1.0234485	0.708212276	0.510453766	0.816292579	ARP3	-1.162265666	-1.231910733	-0.069645068	0.952872395	-2.111047401	0.088504267	0.701104385
ARPC2	-0.668388536	-0.648281649	0.020106887	1.014034605	0.478191755	0.65268983	0.865608177	ARPC2	-0.668388536	-0.674624914	-0.006236378	0.995686602	-0.106870411	0.919047386	0.980250095
ARPC3	-0.510862034	-0.507150172	0.003711862	1.002576179	0.077902145	0.940927331	0.97465736	ARPC3	-0.510862034	-0.469646391	0.041215643	1.028980501	0.589496296	0.581156303	0.869428278
AT1A1	1.554935262	1.664175032	0.10923977	1.078659686	2.067024876	0.093593073	0.599268681	AT1A1	1.554935262	1.583893467	0.028958205	1.020275102	0.425691138	0.688034514	0.916568947
AT1A2	0.784508275	0.802607163	0.018098888	1.012624214	0.204702728	0.845876442	0.93836189	AT1A2	0.784508275	0.804665388	0.020157113	1.014069909	0.250379864	0.812256299	0.958518887
AT1A3	0.50927038	0.530712627	0.021442247	1.014973631	0.378518486	0.720584722	0.893619869	AT1A3	0.50927038	0.526459446	0.017189066	1.011985813	0.205003195	0.845653972	0.967185032

AT1B1	-0.558545453	-0.476862848	0.081682605	1.058251552	2.106561735	0.089009174	0.599268681	AT1B1	-0.558545453	-0.523384177	0.035161276	1.024671363	0.699890001	0.515212039	0.840204914
AT2B1	1.337705558	1.381621858	0.0439163	1.030908508	2.240880339	0.075131588	0.599268681	AT2B1	1.337705558	1.377365162	0.039659604	1.027871278	1.336259524	0.23904866	0.701104385
ATLA1	1.083124671	1.076170728	-0.006953943	0.995191492	-0.103712593	0.921428966	0.969827787	ATLA1	1.083124671	1.062884404	-0.020240267	0.98606847	-0.286510422	0.785979654	0.958518887
ATPA	0.857786627	0.875079443	0.017292816	1.012058592	0.475659387	0.654372229	0.865608177	ATPA	0.857786627	0.896810558	0.039023931	1.027418482	0.717216343	0.505340017	0.840204914
ATPB	0.689862964	0.701101572	0.011238608	1.007820431	0.221613559	0.833381424	0.93836189	ATPB	0.689862964	0.733120581	0.043257616	1.030437938	0.740988624	0.492011184	0.840204914
ATPO	0.937795328	0.958460516	0.020665188	1.014427097	0.462726215	0.663000617	0.865646501	ATPO	0.937795328	0.982521013	0.044725685	1.031487033	0.694646931	0.518225381	0.840204914
B4DV12	0.013905197	0.08559583	0.071690633	1.050947523	1.106500325	0.318883779	0.714099507	B4DV12	0.013905197	0.110493289	0.096588092	1.069241762	2.244091985	0.074829411	0.701104385
B7Z1I4	0.767039141	0.819224927	0.052185786	1.036834613	1.057803493	0.338549886	0.725189245	B7Z1I4	0.767039141	0.733540894	-0.033498247	0.977048276	-0.500688374	0.637847499	0.890624101
BAIP2	1.084331478	0.784117571	-0.300213907	0.812131974	-1.598853702	0.170747186	0.599268681	BAIP2	1.084331478	0.864100732	-0.220230746	0.858428128	-1.177994411	0.291806665	0.740068144
BSN	-0.197139515	-0.314543897	-0.117404382	0.921844692	-1.872280761	0.120061215	0.599268681	BSN	-0.197139515	-0.21854056	-0.021401045	0.985275409	-0.12640156	0.904339729	0.976856136
C1TC	-0.730859422	-0.809212547	-0.078353125	0.947138214	-0.649716678	0.544538519	0.821069404	C1TC	-0.730859422	-0.835865415	-0.105005994	0.92980108	-0.477195132	0.653351666	0.894787818
C2C2L	0.590889971	0.61630795	0.025417979	1.01777452	0.644257709	0.547794822	0.821069404	C2C2L	0.590889971	0.568351663	-0.022538307	0.984499032	-0.560980255	0.59901926	0.878716969
CACB3	0.876609678	0.822864496	-0.053745182	0.963432046	-0.89062383	0.413928	0.761445491	CACB3	0.876609678	0.950652923	0.074043245	1.052662708	1.564972719	0.178361808	0.701104385
CACB4	1.057933737	0.996343795	-0.061589943	0.958207531	-0.985712737	0.369539626	0.731150069	CACB4	1.057933737	0.984981813	-0.072951924	0.950690781	-0.847681719	0.435304	0.830736102
CAD10	0.361580025	0.501396598	0.139816573	1.101765027	2.091814414	0.090690675	0.599268681	CAD10	0.361580025	0.361367547	-0.000212478	0.999852732	-0.002866002	0.997824096	0.997824096
CALB1	-2.602824335	-2.680475531	-0.077651196	0.947599146	-2.336848669	0.066640882	0.599268681	CALB1	-2.602824335	-2.528189882	0.074634453	1.053094172	1.468625781	0.201870676	0.701104385
CALM2	0.261080069	0.159839762	-0.101240308	0.932231193	-1.75142792	0.140264035	0.599268681	CALM2	0.261080069	0.2565627	-0.00451737	0.996873695	-0.046865469	0.96443473	0.988021449
CALR	-0.440664289	-0.358614667	0.082049622	1.058520803	1.218392404	0.277422837	0.692638474	CALR	-0.440664289	-0.356481392	0.084182897	1.060087167	0.992032574	0.36673199	0.772390839
CAND1	-0.396431054	-0.47949739	-0.083066336	0.94404901	-1.773340039	0.136359654	0.599268681	CAND1	-0.396431054	-0.478393774	-0.08196272	0.944771454	-2.37936682	0.06321452	0.701104385
CAP1	-1.007998993	-0.940027519	0.067971474	1.048241749	1.805109135	0.130893837	0.599268681	CAP1	-1.007998993	-0.947499719	0.060499274	1.04282659	1.055905516	0.339336863	0.748135696
CAP2	-0.190459726	-0.139407358	0.051052367	1.036020369	0.608428987	0.56948039	0.832147702	CAP2	-0.190459726	-0.15728487	0.033174856	1.023261482	1.156882224	0.299584249	0.740068144
CAPS1	-0.721326025	-0.811095282	-0.089769257	0.939673027	-1.037429114	0.347079043	0.726116715	CAPS1	-0.721326025	-0.769842976	-0.048516951	0.966929794	-0.47642942	0.653860405	0.894787818
CAPZB	-0.217374308	-0.288698211	-0.071323904	0.951764201	-1.991464081	0.103057037	0.599268681	CAPZB	-0.217374308	-0.244689285	-0.027314978	0.981244809	-1.218068928	0.277535445	0.730369506
CBR1	-1.139647001	-1.275877571	-0.13623057	0.909893394	-1.261899789	0.262647503	0.682883507	CBR1	-1.139647001	-1.09943552	0.04021148	1.028264546	0.311769785	0.767796756	0.954130004
CDC42	-0.112885546	-0.039643897	0.073241649	1.052077986	1.629781013	0.164076549	0.599268681	CDC42	-0.112885546	-0.097486874	0.015398673	1.010730712	0.260296491	0.805014494	0.958518887
CDK5	-0.06157837	-0.010643874	0.050934495	1.035935727	0.532299645	0.617313597	0.855404931	CDK5	-0.06157837	-0.055443529	0.006134841	1.004261402	0.080134598	0.939238757	0.984662387
CH60	0.021996336	0.015448985	-0.006547351	0.995472004	-0.198692491	0.850329894	0.93836189	CH60	0.021996336	0.037955643	0.015959307	1.011123561	0.488772178	0.645686005	0.894787818
CISY	-0.856256877	-0.812627826	0.043629051	1.030703268	0.925401579	0.397224585	0.75509741	CISY	-0.856256877	-0.838903643	0.017353234	1.012100977	0.34445537	0.744518746	0.949291667
CKAP4	0.855797009	0.859847657	0.004050648	1.002811641	0.054459835	0.958677873	0.977027912	CKAP4	0.855797009	0.872672023	0.016875014	1.011765544	0.197060739	0.851540088	0.967185032
CKAP5	0.865917699	0.918365575	0.052447875	1.037022988	1.270335157	0.259866864	0.682883507	CKAP5	0.865917699	0.949762033	0.083844333	1.059838421	1.551189399	0.181553962	0.701104385
CLAP2	0.555683093	0.517008893	-0.0386742	0.973549204	-0.640043183	0.550317508	0.821069404	CLAP2	0.555683093	0.539810747	-0.015872346	0.989058427	-0.235962291	0.822822865	0.958518887
CLH1	-0.761907967	-0.798072145	-0.036164177	0.975244473	-1.139220576	0.306230324	0.701430847	CLH1	-0.761907967	-0.865081036	-0.103173068	0.930983131	-4.713945022	0.005271023	0.543407796
CMC1	0.918568419	0.98006915	0.061500731	1.043550727	1.206008945	0.281763137	0.694279103	CMC1	0.918568419	0.983040269	0.06447185	1.045702053	1.213946818	0.278974029	0.730369506
CN37	0.854024846	0.926147558	0.072122711	1.051262323	1.073284211	0.332188645	0.719846663	CN37	0.854024846	0.876498121	0.022473275	1.015699246	0.164592115	0.87571214	0.971089567
CNDP2	-1.299187801	-1.446935712	-0.147747912	0.902658439	-1.402978652	0.219566957	0.632991271	CNDP2	-1.299187801	-1.497505048	-0.198317247	0.871566562	-1.610872193	0.1681237	0.701104385
CNTN1	1.192288232	1.276098514	0.083810283	1.059813407	1.725873908	0.144960331	0.599268681	CNTN1	1.192288232	1.228413514	0.036125283	1.025356275	0.650969335	0.543793101	0.840204914
CNTN2	1.053753038	1.022099422	-0.031653616	0.97829833	-0.35651754	0.736004146	0.90677635	CNTN2	1.053753038	0.978595074	-0.075157964	0.949238181	-0.604843402	0.571680247	0.858659176
CNTP1	1.577389058	1.663103605	0.085714547	1.061213216	1.007706678	0.359844501	0.726116715	CNTP1	1.577389058	1.56606115	-0.011327908	0.992178838	-0.091636457	0.930544983	0.984662387
CO2	0.724331011	0.769794887	0.045463876	1.032014954	1.901010356	0.115713181	0.599268681	CO2	0.724331011	0.775575706	0.051244696	1.036158492	0.745579789	0.489465892	0.840204914
CO3	0.882275025	0.939976289	0.057701263	1.040806057	1.340207284	0.237852336	0.669181572	CO3	0.882275025	0.941865326	0.059590301	1.042169761	2.258300669	0.073508056	0.701104385
COF1	-1.035911595	-1.06946506	-0.033553465	0.977010881	-0.747416057	0.488450513	0.79405315	COF1	-1.035911595	-1.051802063	-0.015890467	0.989046004	-0.309564038	0.76937804	0.954130004
COPA	-0.285013109	-0.292261953	-0.007248845	0.994988086	-0.085102967	0.935482116	0.97465736	COPA	-0.285013109	-0.251590113	0.033422996	1.023437496	0.164496329	0.875783694	0.971089567
COPG1	-0.47698903	-0.593197329	-0.116208299	0.922609275	-2.288563735	0.070776268	0.599268681	COPG1	-0.47698903	-0.548603991	-0.071614962	0.951572206	-1.099022679	0.321838312	0.744678133
COR1A	-0.433782788	-0.385353791	0.048428997	1.0341382	0.88711685	0.425135825	0.7652291	COR1A	-0.433782788	-0.403387918	0.03039487	1.021291618	0.085482642	0.937263082	0.984662387

COR1C	-0.376496035	-0.425094647	-0.048598612	0.966875065	-0.816012907	0.451601362	0.783169648	COR1C	-0.376496035	-0.388568374	-0.012072338	0.991667006	-0.209840984	0.842074267	0.967185032
CPNE6	0.832959982	0.835237556	0.002277574	1.001579941	0.037542152	0.971505528	0.984563398	CPNE6	0.832959982	0.864967614	0.032007632	1.02243394	0.841281716	0.438561071	0.830736102
CPNS1	0.502684589	0.453290872	-0.049393717	0.966342343	-0.766616567	0.477923601	0.787665904	CPNS1	0.502684589	0.631993094	0.129308505	1.093769323	1.987853472	0.103533592	0.701104385
CPT1A	0.98589389	0.912404249	-0.073489641	0.950336509	-0.952250812	0.384699882	0.739958446	CPT1A	0.98589389	1.035648413	0.049754523	1.035088787	0.78003636	0.470664002	0.840204914
CSK1	0.545856837	0.428867567	-0.11698927	0.922109976	-0.754284203	0.48466605	0.79405315	CSK1	0.545856837	0.339917338	-0.205939499	0.86697392	-1.735919822	0.143095468	0.701104385
CTNA1	0.78257588	0.919697148	0.137121268	1.099708583	3.265016808	0.022321313	0.599268681	CTNA1	0.78257588	0.856781769	0.07420589	1.052781388	0.945008092	0.398164009	0.785904876
CTNB1	0.994966987	1.156279443	0.161312456	1.118304025	10.57415141	0.000130718	0.049280743	CTNB1	0.994966987	1.069791312	0.074824325	1.053232777	1.390431686	0.223112756	0.701104385
CUL3	-0.280852258	-0.234404651	0.046447607	1.032718895	0.67591653	0.529088372	0.817484903	CUL3	-0.280852258	-0.36605022	-0.085197962	0.942655179	-1.058318112	0.338336772	0.748135696
CXA1	1.450972858	1.650438311	0.199465453	1.148272818	2.057888476	0.094687285	0.599268681	CXA1	1.450972858	1.710382173	0.259409315	1.196988519	3.819422952	0.012380417	0.574601062
CYFP1	0.079390274	-0.014236635	-0.09362691	0.937163772	-1.181272305	0.290615276	0.696820273	CYFP1	0.079390274	-0.022153601	-0.101543875	0.932035057	-1.322499697	0.243262262	0.701104385
DAAM2	-0.956926015	-1.059356721	-0.102430706	0.931462307	-3.195625612	0.024112784	0.599268681	DAAM2	-0.956926015	-1.119473555	-0.16254754	0.893446012	-3.179629938	0.0245484	0.574601062
DCE1	-1.141495014	-0.958318822	0.183176192	1.135380754	2.598775432	0.048320967	0.599268681	DCE1	-1.141495014	-0.925836942	0.215658072	1.161233479	1.716750228	0.146675196	0.701104385
DCE2	-1.038468719	-0.953457646	0.085011073	1.060695882	0.743253598	0.490754334	0.79405315	DCE2	-1.038468719	-0.95733942	0.081129299	1.057845767	0.934203847	0.393082983	0.785904876
DCLK1	0.27828983	0.157802257	-0.120487573	0.919876717	-5.511555971	0.002690182	0.253549614	DCLK1	0.27828983	0.20167873	-0.0766111	0.948282555	-1.365336851	0.230367027	0.701104385
DCTN2	-0.615072811	-0.630013986	-0.014941175	0.98969701	-0.177650235	0.865970481	0.940838246	DCTN2	-0.615072811	-0.626326684	-0.011253873	0.992229755	-0.131813525	0.900271719	0.976856136
DGKA	-1.789645468	-2.086381117	-0.296735649	0.814092341	-1.425369095	0.213371501	0.628445749	DGKA	-1.789645468	-1.845647509	-0.056002041	0.961926094	-0.187691813	0.858497437	0.969022557
DHE3	-0.972927245	-0.940120645	0.0328066	1.023000322	0.549326671	0.60641346	0.855259588	DHE3	-0.972927245	-0.901429852	0.071497393	1.050806764	1.73413892	0.143424291	0.701104385
DIRA2	0.26871659	0.300625524	0.031908934	1.022363995	0.798929801	0.460580435	0.783169648	DIRA2	0.26871659	0.234351551	-0.034365039	0.976461428	-0.62178609	0.561332679	0.849889236
DLG2	0.732223158	0.123712921	-0.608510237	0.655873624	-2.072533943	0.092939717	0.599268681	DLG2	0.732223158	0.203543555	-0.528679602	0.693188871	-1.376089338	0.227232034	0.701104385
DLG3	0.288385684	-0.010454247	-0.298839931	0.81290579	-1.164380486	0.296801229	0.696820273	DLG3	0.288385684	-0.17758924	-0.465974924	0.72398167	-1.353496393	0.233866085	0.701104385
DLG4	1.314390824	0.951144422	-0.363246402	0.777413248	-1.670157809	0.155755258	0.599268681	DLG4	1.314390824	0.976998783	-0.337392042	0.79147076	-1.444044227	0.208331519	0.701104385
DLGP1	0.995028952	0.234775452	-0.7602535	0.590392582	-1.446035618	0.207800837	0.622510479	DLGP1	0.995028952	0.459661524	-0.535367428	0.689982928	-1.054553681	0.339898332	0.748135696
DLGP2	-1.012880352	-0.938086503	0.074793849	1.053210529	0.568862171	0.594048971	0.851545482	DLGP2	-1.012880352	-1.047844514	-0.034964162	0.976056007	-0.361071745	0.732800418	0.946321415
DLGP4	-0.920977514	-0.866982034	0.05399548	1.038136018	2.617616887	0.047233396	0.599268681	DLGP4	-0.920977514	-0.89806599	0.022911524	1.016007832	1.461485732	0.203727267	0.701104385
DPYL1	-1.299346712	-1.294813315	0.004533397	1.003147254	0.116833799	0.911539584	0.968029361	DPYL1	-1.299346712	-1.293455148	0.005891564	1.00409207	0.193336352	0.85430402	0.967185032
DPYL2	-1.267004673	-1.274128648	-0.007123975	0.995074208	-0.239991527	0.819865452	0.936634168	DPYL2	-1.267004673	-1.260842097	0.006162576	1.004280708	0.254091452	0.809543302	0.958518887
DYHC1	-0.088446814	-0.151078161	-0.062631347	0.957516102	-1.244771653	0.268377094	0.689399976	DYHC1	-0.088446814	-0.204086678	-0.115639864	0.922972863	-2.399318829	0.061672706	0.701104385
DYN1	-0.213258251	-0.329583112	-0.116324861	0.922534736	-1.90052473	0.115785312	0.599268681	DYN1	-0.213258251	-0.306279846	-0.093021595	0.937557063	-2.977620186	0.030884509	0.612813671
DYN2	-0.135242084	-0.211549216	-0.076307132	0.948482373	-4.255689692	0.008047926	0.599268681	DYN2	-0.135242084	-0.260072663	-0.124830579	0.917111736	-4.372223766	0.007207	0.543407796
DYN3	-1.511222784	-1.304325849	0.206896935	1.154202959	1.580525663	0.174825801	0.604672724	DYN3	-1.511222784	-1.154329849	0.356892935	1.280664817	3.552246601	0.016348477	0.574601062
E41L1	0.079876517	0.065344129	-0.014532389	0.989977479	-0.100345975	0.923969048	0.969827787	E41L1	0.079876517	0.109382582	0.029506064	1.020662622	0.27793809	0.792186486	0.958518887
E41L3	0.246891575	0.27185972	0.024968145	1.017457226	0.281170817	0.789843736	0.919848905	E41L3	0.246891575	0.224473542	-0.022418033	0.984581111	-0.272612511	0.796051336	0.958518887
EAA1	1.496997019	1.552452092	0.055455073	1.039186845	0.782227569	0.469486314	0.783169648	EAA1	1.496997019	1.599222766	0.102225747	1.073428239	1.889126129	0.117491767	0.701104385
EAA2	1.421552597	1.611227996	0.1896754	1.140507078	1.788939514	0.133647387	0.599268681	EAA2	1.421552597	1.581943755	0.160391158	1.117590109	1.567999934	0.177668111	0.701104385
EF1A1	-0.017126599	-0.031495689	-0.014369089	0.990089542	-0.743301799	0.490727612	0.79405315	EF1A1	-0.017126599	0.005361987	0.022488586	1.015710025	0.501914179	0.637044169	0.890624101
EFHD2	-1.158115258	-1.211718457	-0.053603199	0.963526868	-0.773578918	0.474147154	0.787460251	EFHD2	-1.158115258	-1.187113229	-0.028997971	0.980100794	-0.329535844	0.755107709	0.95032034
EGFR	-0.005246195	0.010488587	0.015734782	1.010966212	0.312724159	0.767112969	0.918100283	EGFR	-0.005246195	0.024518765	0.029764959	1.020845798	0.93878394	0.390941688	0.785904876
ENOA	-2.279179912	-2.190345925	0.088833987	1.063510286	1.535078306	0.18535597	0.613333248	ENOA	-2.279179912	-2.264305694	0.014874218	1.010363353	0.276191744	0.793453096	0.958518887
ENOG	-1.684608246	-1.649440125	0.035168121	1.024676224	0.635263968	0.553187343	0.821069404	ENOG	-1.684608246	-1.668954876	0.01565337	1.010909165	0.245636979	0.815727471	0.958518887
EPN1	-0.662514727	-0.736684342	-0.074169615	0.9498887	-0.597044409	0.576483571	0.838740166	EPN1	-0.662514727	-0.748600581	-0.086085854	0.94207521	-1.093144535	0.324177394	0.744678133
F8VWT9	-0.52114971	-0.616887072	-0.095737362	0.93579384	-1.187916903	0.288213465	0.696820273	F8VWT9	-0.52114971	-0.647378141	-0.126228432	0.916223561	-2.233619002	0.075819613	0.701104385
FARP1	0.414766118	0.415999086	0.001232968	1.000854993	0.011603413	0.99119077	0.996266494	FARP1	0.414766118	0.368265186	-0.046500932	0.968281924	-0.435608667	0.681284353	0.914036303
FARP2	0.067748115	0.213492228	0.145744113	1.106301114	1.653073618	0.159223651	0.599268681	FARP2	0.067748115	0.056910984	-0.010837132	0.992516415	-0.041887371	0.968209702	0.989200698
FLNC	-1.059794089	-1.080100662	-0.020306573	0.986023152	-0.247671598	0.814237803	0.933032377	FLNC	-1.059794089	-0.876383952	0.183410137	1.135564881	1.303638318	0.2491499	0.701104385

FLOT1	1.829366199	2.039712554	0.210346354	1.156965909	0.889293076	0.41457795	0.761445491	FLOT1	1.829366199	1.976295499	0.1469293	1.107210323	1.352277522	0.23422909	0.701104385
FLOT2	1.466895448	1.40241125	-0.064484198	0.956287155	-0.478995186	0.652156552	0.865608177	FLOT2	1.466895448	1.400571052	-0.066324396	0.955068161	-0.544422668	0.609541159	0.883834681
FSCN1	-1.606365145	-1.551393791	0.054971353	1.038838475	0.993242068	0.36619667	0.730455792	FSCN1	-1.606365145	-1.674124168	-0.067759023	0.954118906	-1.55210847	0.181339383	0.701104385
G3P	0.163530623	0.308089934	0.14455931	1.105392945	1.838638773	0.125366877	0.599268681	G3P	0.163530623	0.269588536	0.106057912	1.076283328	1.441639941	0.208973955	0.701104385
G6PI	-1.156613925	-1.092524687	0.064089238	1.045424763	0.524314835	0.622464175	0.855404931	G6PI	-1.156613925	-1.176449725	-0.0198358	0.986344959	-0.197320278	0.851347569	0.967185032
GBB1	1.222778057	1.321092882	0.098314824	1.070522282	1.804418836	0.131010201	0.599268681	GBB1	1.222778057	1.316212762	0.093434705	1.066907207	1.85557688	0.12266616	0.701104385
GBRA1	1.583748355	1.659411729	0.075663374	1.053845499	0.95844034	0.381858188	0.738259164	GBRA1	1.583748355	1.569018753	-0.014729602	0.989842161	-0.170133738	0.871574796	0.971089567
GBRB1	1.326412392	1.501110902	0.174698509	1.128728501	2.984508965	0.030640381	0.599268681	GBRB1	1.326412392	1.476138066	0.149725674	1.109358509	2.715860568	0.041981634	0.701104385
GBRG2	1.24153617	1.276542301	0.035006131	1.024561177	0.267204602	0.79998273	0.919848905	GBRG2	1.24153617	1.272008624	0.030472454	1.021346542	0.365690791	0.729557364	0.946321415
GCYB1	0.143664844	0.073083219	-0.070581625	0.952254018	-0.981712835	0.37132572	0.731150069	GCYB1	0.143664844	-0.016839178	-0.160504022	0.894712438	-2.427318326	0.059577272	0.701104385
GDAP1	1.411892035	1.434302236	0.0224102	1.01565484	0.203092836	0.847068705	0.93836189	GDAP1	1.411892035	1.428916396	0.017024361	1.011870287	0.120898791	0.908479406	0.976856136
GDIA	-1.408347427	-1.337631501	0.070715927	1.050237727	1.716428671	0.146736006	0.599268681	GDIA	-1.408347427	-1.534175056	-0.125827629	0.916478138	-1.805493309	0.130829123	0.701104385
GDS1	-1.261137142	-1.333763559	-0.072626417	0.950905304	-0.922538322	0.39857927	0.75509741	GDS1	-1.261137142	-1.338802299	-0.077665158	0.947589976	-0.837081254	0.440708807	0.830736102
GEPH	0.435787898	0.40661594	-0.029171958	0.979982602	-0.66415255	0.535989016	0.821069404	GEPH	0.435787898	0.396058153	-0.039729745	0.972837169	-0.873703374	0.422251496	0.820560896
GFAP	0.885667847	1.113238789	0.227570942	1.170861915	1.243487694	0.268811131	0.689399976	GFAP	0.885667847	1.12886228	0.243194432	1.183610526	2.343349889	0.066104251	0.701104385
GHC1	0.686195535	0.565982042	-0.120213493	0.920051489	-1.914202474	0.113771361	0.599268681	GHC1	0.686195535	0.712922139	0.026726604	1.018698131	0.238972309	0.820613228	0.958518887
GLNA	-1.703672955	-1.586793285	0.11687967	1.08438696	1.507781179	0.191975232	0.613333248	GLNA	-1.703672955	-1.632180088	0.071492867	1.050803468	1.268950163	0.260321564	0.707019134
GLPK	0.637013834	0.561011773	-0.076002061	0.94868296	-1.002557281	0.362095338	0.726116715	GLPK	0.637013834	0.490644821	-0.146369013	0.903521594	-2.124862076	0.086968207	0.701104385
GLSK	-0.216823186	-0.265201306	-0.04837812	0.967022847	-1.368417298	0.229464771	0.655365293	GLSK	-0.216823186	-0.281634915	-0.06481173	0.956070076	-1.516824758	0.189757245	0.701104385
GNAI1	1.073887282	1.166842063	0.092954781	1.066552351	2.128787101	0.086536943	0.599268681	GNAI1	1.073887282	1.153681279	0.079793997	1.056867119	1.666345103	0.156522718	0.701104385
GNAO	1.363858991	1.447529101	0.08367011	1.05971044	1.630235821	0.163980402	0.599268681	GNAO	1.363858991	1.452207787	0.088348796	1.063152678	2.168614666	0.082286824	0.701104385
GNAQ	0.73250744	0.785615937	0.053108497	1.037497958	1.029144943	0.350598332	0.726116715	GNAQ	0.73250744	0.846220836	0.113713396	1.082009672	1.394199307	0.222042379	0.701104385
GNAS2	0.966152433	1.025910501	0.059758068	1.04229096	1.137217232	0.306992281	0.701430847	GNAS2	0.966152433	1.062072856	0.095920423	1.068747039	1.172006528	0.293994214	0.740068144
GNAZ	1.014486996	1.027810599	0.013323603	1.009277994	0.192497984	0.854926517	0.93836189	GNAZ	1.014486996	1.16120046	0.146713464	1.107044691	1.671288396	0.155528404	0.701104385
GPDM	0.609487279	0.619384496	0.009897217	1.006883814	0.149144049	0.887268914	0.955715373	GPDM	0.609487279	0.679657377	0.070170099	1.049840456	1.187776393	0.288264072	0.73928949
GPM6A	1.372125794	1.507012198	0.134886404	1.098006355	5.687275659	0.002342644	0.253549614	GPM6A	1.372125794	1.491680549	0.119554755	1.086399526	3.280228273	0.021948991	0.574601062
GRIA1	0.741467666	0.813195554	0.071727888	1.050974662	0.379456565	0.719930532	0.893619869	GRIA1	0.741467666	0.647829783	-0.093637883	0.937156644	-0.611087769	0.56785261	0.856321736
GRIA2	1.450599791	1.527075134	0.076475343	1.054438786	1.684049062	0.152990731	0.599268681	GRIA2	1.450599791	1.552137355	0.101537565	1.072916323	2.722997838	0.041625972	0.701104385
GRIA3	1.74365382	1.707514627	-0.036139193	0.975261363	-0.326318594	0.757399231	0.915190738	GRIA3	1.74365382	1.825401695	0.081747876	1.058299431	0.928460027	0.395781606	0.785904876
GRM1	0.217054885	0.250016626	0.032961741	1.023110337	0.316625754	0.764320068	0.918100283	GRM1	0.217054885	0.287156339	0.070101454	1.049790505	0.528027483	0.620066271	0.890624101
GRM2	1.020562943	1.09446624	0.073903298	1.0525606	1.212725115	0.279401677	0.692989686	GRM2	1.020562943	1.197109709	0.176546766	1.130175458	3.029533268	0.029096966	0.609419798
GRM3	0.948594922	0.946593718	-0.002001204	0.998613833	-0.032671591	0.975200585	0.9856585	GRM3	0.948594922	1.084280356	0.135685434	1.098614649	1.728949696	0.144386774	0.701104385
GRM5	0.332844126	0.362251615	0.029407489	1.020592885	0.705184308	0.512181488	0.816292579	GRM5	0.332844126	0.357227595	0.024383469	1.017044968	0.234677087	0.823766895	0.958518887
GRP75	-0.051494568	-0.055671148	-0.004176579	0.997109202	-0.070405702	0.946599979	0.97465736	GRP75	-0.051494568	0.02634899	0.077843559	1.055439263	1.977186043	0.104955026	0.701104385
GRP78	-0.276439628	-0.142074357	0.134365271	1.097609803	1.599848559	0.170528497	0.599268681	GRP78	-0.276439628	-0.157247939	0.119191689	1.086126159	2.616674006	0.047287178	0.701104385
GSH1	-1.385893856	-1.193651954	0.192241903	1.142537805	1.226750735	0.274527355	0.690387094	GSH1	-1.385893856	-1.209600489	0.176293367	1.129976968	0.973552866	0.37499136	0.781880077
GSK3B	0.177881925	0.222244223	0.044362298	1.031227254	0.392478324	0.710877804	0.89333644	GSK3B	0.177881925	0.041133852	-0.136748073	0.909567069	-0.795657795	0.462315236	0.838780504
GSTM3	-1.379712489	-1.33454757	0.04516492	1.031801121	0.413525834	0.696359698	0.883931333	GSTM3	-1.379712489	-1.310381656	0.069330833	1.049229905	0.653983659	0.542002123	0.840204914
GUAD	-1.57604098	-1.629375794	-0.053334813	0.96370613	-0.49681009	0.640392837	0.865608177	GUAD	-1.57604098	-1.556177366	0.019863614	1.013863629	0.257543413	0.807022798	0.958518887
HOME1	1.084429597	1.042896196	-0.041533402	0.971621688	-0.338721067	0.748581201	0.915190738	HOME1	1.084429597	0.988884596	-0.095545001	0.935918622	-0.656073591	0.540762666	0.840204914
HOME2	-1.194669337	-1.12095225	0.073717087	1.052424754	0.42727478	0.686954407	0.879057516	HOME2	-1.194669337	-0.949753192	0.244916145	1.18502389	1.481406	0.198588	0.701104385
HPCA	-0.9500372	-0.941089818	0.008947382	1.006221124	0.284093159	0.787728084	0.919848905	HPCA	-0.9500372	-0.937640297	0.012396903	1.008629903	0.479105438	0.652083391	0.894787818
HPCL1	0.529765437	0.549692773	0.019927336	1.013908411	0.572905363	0.591509068	0.851140911	HPCL1	0.529765437	0.490800498	-0.038964939	0.973353029	-0.653594975	0.542232843	0.840204914
HS12A	0.176901239	0.172220467	-0.004680772	0.996760793	-0.207246565	0.843993467	0.93836189	HS12A	0.176901239	0.105087215	-0.071814024	0.951440917	-3.556837747	0.016269029	0.574601062

HS90A	-0.92772289	-0.975581709	-0.047858818	0.967370992	-0.859691448	0.429241936	0.7652291	HS90A	-0.92772289	-0.995451037	-0.067728147	0.954139326	-1.629271249	0.164184381	0.701104385
HS90B	-1.093608394	-1.16217358	-0.068565186	0.953585903	-2.443766708	0.058382396	0.599268681	HS90B	-1.093608394	-1.130996712	-0.037388318	0.97441732	-2.264545838	0.072935199	0.701104385
HSP74	-1.443991527	-1.434974943	0.009016584	1.006269391	0.134223292	0.898461479	0.962272664	HSP74	-1.443991527	-1.3312468	0.112744727	1.081283422	3.131607617	0.025910393	0.574601062
HSP7C	-0.845889107	-0.824606511	0.021282596	1.014861319	0.366748428	0.728815689	0.900863983	HSP7C	-0.845889107	-0.788275764	0.057613343	1.040742631	1.398270964	0.220891076	0.701104385
HUWE1	-0.550319813	-0.650609514	-0.1002897	0.932845653	-2.247681828	0.074493187	0.599268681	HUWE1	-0.550319813	-0.697042875	-0.146723061	0.90329989	-2.845034666	0.036032935	0.679220829
HXK1	0.921157591	0.940262896	0.019105305	1.013330862	0.561033722	0.598985461	0.855259588	HXK1	0.921157591	0.943574335	0.022416744	1.015659447	0.502008899	0.636982118	0.890624101
IDH3A	-0.892266789	-0.901871988	-0.009605199	0.993364298	-0.156128832	0.882039428	0.952804769	IDH3A	-0.892266789	-0.952714274	-0.060447485	0.958966628	-1.362903124	0.23108221	0.701104385
IMB1	-0.826102108	-0.831050176	-0.004948068	0.996576136	-0.070055429	0.946865126	0.97465736	IMB1	-0.826102108	-0.859651937	-0.033549828	0.977013344	-1.083875699	0.327895411	0.744678133
IP3KA	-0.275080857	-0.369792073	-0.094711216	0.93645968	-0.277070545	0.792815618	0.919848905	IP3KA	-0.275080857	-0.473350332	-0.198269475	0.871595423	-0.663746809	0.536228087	0.840204914
IPO5	-0.20166127	-0.150145308	0.051515962	1.036353336	0.728352305	0.499065022	0.804049202	IPO5	-0.20166127	-0.046606117	0.155055153	1.113464184	0.902799822	0.408018161	0.797009568
ITPR1	0.763868165	0.728812419	-0.035055746	0.975994048	-0.425951796	0.687856677	0.879057516	ITPR1	0.763868165	0.731333356	-0.032534809	0.977700971	-0.211641749	0.840742896	0.967185032
KAD1	-1.72390434	-1.768369569	-0.044465229	0.969649175	-0.653781742	0.542121971	0.821069404	KAD1	-1.72390434	-1.799959364	-0.076055024	0.948648133	-0.568275075	0.594418329	0.875373867
KAD4	-0.021211564	0.001416971	0.022628535	1.015808559	0.331501658	0.753708937	0.915190738	KAD4	-0.021211564	-0.017395817	0.003815748	1.002648376	0.059797198	0.954633606	0.984662387
KALRN	0.203486318	0.278104419	0.074618102	1.053082236	0.495830311	0.641036761	0.865608177	KALRN	0.203486318	0.118408424	-0.085077894	0.942733635	-0.522367165	0.623724251	0.890624101
KAP2	0.184813512	0.154523372	-0.03029014	0.979223347	-0.34622155	0.743269386	0.912744491	KAP2	0.184813512	0.10950076	-0.075312752	0.949136342	-0.815140002	0.452056982	0.838585027
KAP3	0.131074731	0.143636181	0.01256145	1.008744949	0.299865844	0.77634559	0.919848905	KAP3	0.131074731	0.189835453	0.058760722	1.041570665	2.057551226	0.094727931	0.701104385
KCC2A	1.147609244	0.725975592	-0.421633652	0.746578749	-1.940868015	0.109948533	0.599268681	KCC2A	1.147609244	0.743326377	-0.404282867	0.755611798	-1.628810932	0.164281813	0.701104385
KCC2B	0.915006464	0.451305836	-0.463700629	0.72512387	-2.164771602	0.082687108	0.599268681	KCC2B	0.915006464	0.469790144	-0.44521632	0.73447418	-1.950795793	0.108559487	0.701104385
KCC2D	1.063514242	0.666707755	-0.396806487	0.759537717	-2.148867209	0.084365776	0.599268681	KCC2D	1.063514242	0.715019726	-0.348494516	0.785403256	-1.609733873	0.168370466	0.701104385
KCNA1	0.859266383	0.913985632	0.054719248	1.038656959	1.594652307	0.171673787	0.599268681	KCNA1	0.859266383	0.798426582	-0.060839801	0.958705889	-0.736849289	0.494314028	0.840204914
KCRB	-2.100450473	-2.075431241	0.025019232	1.017493256	0.624722459	0.559551556	0.824249722	KCRB	-2.100450473	-2.126675733	-0.02622526	0.981986258	-0.800227823	0.459893565	0.838780504
KPCA	1.016368694	1.047998595	0.031629902	1.022166278	0.384381067	0.71650079	0.893619869	KPCA	1.016368694	0.921325548	-0.095043146	0.936244247	-1.135593105	0.307611221	0.740068144
KPCE	-0.644252693	-0.720618843	-0.07636615	0.948443574	-0.90365042	0.407607799	0.760733368	KPCE	-0.644252693	-0.694962634	-0.050709942	0.965461114	-1.344475318	0.236565228	0.701104385
KPCG	0.371387786	0.324878754	-0.046509032	0.968276488	-0.518956662	0.625934246	0.855404931	KPCG	0.371387786	0.381242773	0.009854987	1.006854341	0.137183374	0.896238796	0.976856136
KPYM	-1.97909447	-2.030946705	-0.051852235	0.964696987	-1.312710758	0.246301668	0.677779043	KPYM	-1.97909447	-1.99595214	-0.01685767	0.988383156	-0.38610922	0.715298981	0.937339888
L1CAM	1.3643129	1.424258102	0.059945202	1.042426165	1.155836837	0.29997407	0.698087805	L1CAM	1.3643129	1.434871377	0.070558477	1.050123115	1.134456823	0.308044895	0.740068144
LDHA	-1.617983078	-1.623952416	-0.005969338	0.995870918	-0.09752863	0.926095499	0.969827787	LDHA	-1.617983078	-1.577287132	0.040695946	1.028609901	0.663060787	0.536632468	0.840204914
M2OM	1.034306616	1.049708326	0.01540171	1.01073284	0.489601404	0.64513883	0.865608177	M2OM	1.034306616	1.049103786	0.01479717	1.010309396	0.287945387	0.784942405	0.958518887
MAP1A	-0.022041646	0.022919	0.044960646	1.031655037	0.785666515	0.467642365	0.783169648	MAP1A	-0.022041646	0.056119169	0.078160815	1.055671385	2.182448645	0.080862873	0.701104385
MAP1B	0.402976331	0.313475664	-0.089500667	0.939847985	-1.406804813	0.218496317	0.632991271	MAP1B	0.402976331	0.365965924	-0.037010407	0.9746726	-0.623471298	0.560310033	0.849889236
MARE2	0.632814198	0.576086796	-0.056727403	0.961442576	-0.695923621	0.517490521	0.816292579	MARE2	0.632814198	0.53492696	-0.097887239	0.934400377	-0.993996551	0.365863063	0.772390839
MARK1	0.004347021	-0.147876875	-0.152223896	0.899862267	-1.090069562	0.325406828	0.719846663	MARK1	0.004347021	-0.181631105	-0.185978126	0.879052889	-1.119399273	0.313842317	0.744678133
MBP	0.069340856	0.178449935	0.109109079	1.078561976	1.170037015	0.2947169	0.696820273	MBP	0.069340856	0.111094644	0.041753788	1.029364396	0.279382133	0.791139682	0.958518887
MDHC	-2.090570301	-2.045444926	0.045125375	1.03177284	0.462633067	0.663062979	0.865646501	MDHC	-2.090570301	-1.818298803	0.272271498	1.207707846	1.085395755	0.327283174	0.744678133
MK01	-0.20045304	-0.366170517	-0.165717477	0.891485058	-1.617835359	0.166621979	0.599268681	MK01	-0.20045304	-0.193255798	0.007197242	1.005001213	0.060662375	0.95397818	0.984662387
MK03	-0.380701276	-0.481019658	-0.100318382	0.932827107	-1.162273134	0.297581072	0.696820273	MK03	-0.380701276	-0.33556861	0.045132666	1.031778054	0.513015842	0.629794514	0.890624101
MPCP	0.982036347	1.025762276	0.043725929	1.030772482	1.013518812	0.357317935	0.726116715	MPCP	0.982036347	1.025657743	0.043621396	1.030697799	0.867122049	0.425523837	0.822679419
MTAP2	0.104864456	0.132430201	0.027565745	1.019290828	0.926873118	0.396529789	0.75509741	MTAP2	0.104864456	0.167023979	0.062159524	1.044027363	1.374665077	0.227644979	0.701104385
MYPR	0.079508434	0.193904633	0.114396199	1.08252189	1.466431863	0.202439415	0.622510479	MYPR	0.079508434	0.044846922	-0.034661512	0.976260786	-0.132906995	0.899450208	0.976856136
NAC1	1.231909468	1.167208575	-0.064700893	0.95614353	-0.70346671	0.513163321	0.816292579	NAC1	1.231909468	1.170812263	-0.061097205	0.958534853	-0.699834833	0.515243683	0.840204914
NBEA	-0.066677159	-0.166011071	-0.099333911	0.93346387	-0.915704309	0.401827482	0.757444803	NBEA	-0.066677159	-0.168637549	-0.10196039	0.931766011	-1.764024948	0.138005822	0.701104385
NCAM1	1.196323292	1.287708499	0.091385208	1.065392631	2.035000567	0.09748783	0.599268681	NCAM1	1.196323292	1.27430679	0.077983499	1.055541645	2.30108422	0.0696781	0.701104385
NCAM2	1.616931489	1.655256539	0.038325049	1.026920892	0.420004805	0.691919757	0.881262664	NCAM2	1.616931489	1.75798883	0.141057341	1.10271299	1.926450431	0.111998664	0.701104385
NCAN	1.233638024	1.140316104	-0.093321919	0.937361912	-0.624473002	0.559702729	0.824249722	NCAN	1.233638024	1.139267495	-0.094370528	0.936680848	-0.506802977	0.633845924	0.890624101

NCDN	-0.445896261	-0.673802674	-0.227906413	0.853873103	-2.012894791	0.100275179	0.599268681	NCDN	-0.445896261	-0.597700077	-0.151803815	0.900124325	-1.804281433	0.131033375	0.701104385
NCPR	-0.050333459	0.034702309	0.085035769	1.060714039	0.783737671	0.468675949	0.783169648	NCPR	-0.050333459	0.157416287	0.207749746	1.154885438	1.651079515	0.15963347	0.701104385
NDUAA	1.609795558	1.613653166	0.003857607	1.002677468	0.072720027	0.944848301	0.97465736	NDUAA	1.609795558	1.709269595	0.099474036	1.071382797	1.815469429	0.129160006	0.701104385
NDUS4	1.123345294	1.250240133	0.126894838	1.091940949	1.462691465	0.203412602	0.622510479	NDUS4	1.123345294	1.081317001	-0.042028293	0.971288447	-0.385021508	0.7160553	0.937339888
NDUV1	1.088272754	1.09521888	0.006946126	1.004826297	0.144854743	0.89048355	0.956445294	NDUV1	1.088272754	1.11247231	0.024199556	1.016915325	0.762054953	0.480409637	0.840204914
NEB1	0.687347527	0.418409983	-0.268937544	0.829930513	-1.651913725	0.1594619	0.599268681	NEB1	0.687347527	0.596045781	-0.091301746	0.938675399	-1.33007817	0.240933093	0.701104385
NEGR1	1.251250328	1.356587767	0.105337438	1.075745972	1.00424898	0.361354602	0.726116715	NEGR1	1.251250328	1.395226257	0.143975929	1.104946049	1.396449201	0.2214055	0.701104385
NFASC	1.263485086	1.336661873	0.073176787	1.052030687	1.226279638	0.274689825	0.690387094	NFASC	1.263485086	1.277358237	0.013873152	1.009662519	0.194598432	0.853367141	0.967185032
NFL	-0.278349731	-0.164958147	0.113391584	1.081768343	1.963863019	0.106758907	0.599268681	NFL	-0.278349731	-0.256204239	0.022145492	1.015468503	0.301791032	0.774960538	0.957902042
NFM	-0.252177416	-0.179465012	0.072712404	1.051692107	1.013430497	0.357356215	0.726116715	NFM	-0.252177416	-0.244475301	0.007702115	1.005352975	0.064587978	0.951004814	0.984662387
NLGN2	1.26887583	0.969362286	-0.299513545	0.812526322	-8.809684136	0.000312854	0.058972925	NLGN2	1.26887583	1.134874799	-0.134001031	0.911300629	-3.36992148	0.019891412	0.574601062
NMDE1	0.891507002	0.512489032	-0.37901797	0.768960838	-0.979397338	0.3723629	0.731150069	NMDE1	0.891507002	0.511545655	-0.379961347	0.768458179	-1.19042133	0.287312785	0.73928949
NMDE2	0.731493116	0.843152341	0.111659225	1.080470157	2.526280765	0.052768744	0.599268681	NMDE2	0.731493116	0.905025162	0.173532046	1.127816258	1.367361255	0.22977371	0.701104385
NMDZ1	1.100559997	1.206413076	0.105853079	1.076130529	1.652069975	0.159429784	0.599268681	NMDZ1	1.100559997	1.138252022	0.037692025	1.026470399	0.507615156	0.63331547	0.890624101
NNTM	2.274587603	2.36259214	0.088004536	1.062899016	1.131928047	0.309011947	0.701792193	NNTM	2.274587603	2.35760458	0.083016977	1.059230799	0.805697746	0.457007401	0.838780504
NOS1	0.611831698	0.523351339	-0.088480359	0.940512903	-1.28937341	0.253689692	0.682883507	NOS1	0.611831698	0.643884022	0.032052324	1.022465613	0.416864147	0.694070266	0.921353839
NRX1A	0.893246405	0.85252663	-0.040719776	0.972169801	-0.640895111	0.54980696	0.821069404	NRX1A	0.893246405	0.970031142	0.076784736	1.054664939	0.843077519	0.437645291	0.830736102
NRX3A	0.931325658	0.921530653	-0.009795005	0.993233616	-0.069288653	0.94744558	0.97465736	NRX3A	0.931325658	1.065715642	0.134389984	1.097628604	1.267865585	0.260678142	0.707019134
NSF	0.968781306	0.919095994	-0.049685312	0.966147047	-1.035431221	0.347925064	0.726116715	NSF	0.968781306	0.944926605	-0.023854701	0.983601131	-0.722610051	0.502293868	0.840204914
NTRK2	-0.733079688	-0.791479341	-0.058399653	0.960328799	-1.103380599	0.320113572	0.714099507	NTRK2	-0.733079688	-0.600256366	0.132823322	1.096437307	2.573385787	0.049830185	0.701104385
ODO1	0.01843046	0.03039477	0.01196431	1.00832751	0.103455454	0.921622938	0.969827787	ODO1	0.01843046	0.112503111	0.094072651	1.067379087	1.071261459	0.333013999	0.747299272
ODPB	-0.223879836	-0.208738663	0.015141173	1.010550328	0.329439976	0.75517595	0.915190738	ODPB	-0.223879836	-0.193093522	0.030786314	1.021568761	0.77966543	0.470863576	0.840204914
OGDHL	0.227346111	0.246162864	0.018816753	1.013128207	0.298106166	0.777612393	0.919848905	OGDHL	0.227346111	0.325004207	0.097658096	1.070035081	2.151654734	0.084068966	0.701104385
OPA1	1.559598451	1.765775768	0.206177317	1.153627385	1.314082855	0.245873534	0.677779043	OPA1	1.559598451	1.59891673	0.039318279	1.027628124	0.249954947	0.812567085	0.958518887
OTUB1	-1.236663111	-1.290133009	-0.053469898	0.963615899	-0.593877057	0.578441494	0.838740166	OTUB1	-1.236663111	-1.264543475	-0.027880364	0.980860338	-0.250422086	0.81222542	0.958518887
PACN1	-0.633268543	-0.696627598	-0.063359055	0.957033244	-0.667982421	0.533735875	0.821069404	PACN1	-0.633268543	-0.601804882	0.031463661	1.022048501	0.47460993	0.655070127	0.894787818
PAK3	-0.75258837	-0.967059705	-0.214471335	0.861861925	-1.595754938	0.171430128	0.599268681	PAK3	-0.75258837	-0.946207784	-0.193619414	0.874409261	-1.475054298	0.200213006	0.701104385
PDE2A	0.625726267	0.669054526	0.04332826	1.030488396	0.462753093	0.662982623	0.865646501	PDE2A	0.625726267	0.724396717	0.09867045	1.070786199	0.929629105	0.395231141	0.785904876
PHB2	1.281713281	1.269582087	-0.012131194	0.991626551	-0.128929317	0.902439268	0.963794912	PHB2	1.281713281	1.296913362	0.015200081	1.010591591	0.178686781	0.865198322	0.969183434
PIPNB	-1.054004282	-1.012352233	0.041652049	1.029291808	0.60963122	0.568743985	0.832147702	PIPNB	-1.054004282	-1.034509085	0.019495197	1.013604755	0.351703894	0.739397005	0.948179438
PP1A	-0.249865313	-0.265955134	-0.016089821	0.988909346	-0.447989757	0.67290468	0.874776084	PP1A	-0.249865313	-0.249587985	0.000277328	1.000192248	0.008310776	0.993690435	0.997824096
PP1B	-0.253361839	-0.253797242	-0.000435403	0.999698247	-0.004917622	0.996266494	0.996266494	PP1B	-0.253361839	-0.218581234	0.034780605	1.024401027	0.314628007	0.765749623	0.954130004
PP2AA	-0.61267146	-0.69989105	-0.08721959	0.941335175	-1.827156901	0.127232171	0.599268681	PP2AA	-0.61267146	-0.74541832	-0.13274686	0.91209319	-3.695865417	0.014059655	0.574601062
PP2BA	-0.862549452	-0.835931888	0.026617564	1.01862114	0.696699619	0.517044207	0.816292579	PP2BA	-0.862549452	-0.866592848	-0.004043396	0.997201255	-0.060554792	0.954059678	0.984662387
PPIA	-1.778723482	-1.670812853	0.107910629	1.077666385	1.824926317	0.12759782	0.599268681	PPIA	-1.778723482	-1.695872118	0.082851363	1.059109212	3.215329605	0.02358811	0.574601062
PRDX1	-0.600067354	-0.632209706	-0.032142351	0.977966972	-0.543277798	0.610272705	0.855259588	PRDX1	-0.600067354	-0.591407221	0.008660134	1.0060208	0.148743969	0.887568652	0.976856136
PRDX2	1.383290193	1.363156309	-0.020133883	0.986141185	-0.482110048	0.650091288	0.865608177	PRDX2	1.383290193	1.376379308	-0.006910884	0.995221195	-0.139301767	0.894648785	0.976856136
PRDX5	-1.615897219	-1.591793123	0.024104096	1.01684804	0.426365176	0.68757469	0.879057516	PRDX5	-1.615897219	-1.593104349	0.02279287	1.015924275	0.682041939	0.525519022	0.840204914
PRS4	-0.665454016	-0.617790492	0.047663524	1.033589646	0.547442266	0.607614181	0.855259588	PRS4	-0.665454016	-0.723606287	-0.058152271	0.960493482	-0.64124039	0.549600127	0.842273365
PRS6A	-0.881205858	-0.751272991	0.129932867	1.094242782	1.266159125	0.26124008	0.682883507	PRS6A	-0.881205858	-0.710876228	0.17032963	1.12531557	2.499402205	0.05452996	0.701104385
PRS7	0.002186476	0.050970657	0.048784181	1.034392831	1.521308527	0.18866681	0.613333248	PRS7	0.002186476	0.041113795	0.038927319	1.027349682	0.794264311	0.463055516	0.838780504
PRS8	-0.728890778	-0.633834661	0.095056117	1.068106954	1.621622682	0.165810757	0.599268681	PRS8	-0.728890778	-0.681231132	0.047659646	1.033586868	0.719034546	0.504311732	0.840204914
PSD11	-0.669605793	-0.725382912	-0.055777119	0.962076073	-0.688718258	0.521647255	0.817222214	PSD11	-0.669605793	-0.638031569	0.031574224	1.022126831	0.329544173	0.75510178	0.95032034
PSD12	-0.585068357	-0.530571021	0.054497336	1.038497207	2.577592235	0.049576615	0.599268681	PSD12	-0.585068357	-0.523189441	0.061878916	1.043824317	1.348731584	0.235288135	0.701104385

PSMD1	-0.880803655	-0.929870462	-0.049066807	0.966561338	-0.266778272	0.800292946	0.919848905	PSMD1	-0.880803655	-0.86727593	0.013527725	1.009420803	0.125621082	0.904926668	0.976856136
PSMD7	-0.555458018	-0.516015293	0.039442725	1.02771677	0.477421983	0.653200987	0.865608177	PSMD7	-0.555458018	-0.519348006	0.036110012	1.025345422	0.692003129	0.519749415	0.840204914
PTPR2	-0.378445713	-0.369646262	0.008799451	1.006117953	0.211772098	0.840646548	0.93836189	PTPR2	-0.378445713	-0.456919258	-0.078473545	0.94705916	-1.921067281	0.112774244	0.701104385
PTPRA	-1.651580355	-1.943236514	-0.291656158	0.816963677	-3.789000049	0.012771498	0.599268681	PTPRA	-1.651580355	-1.928043147	-0.276462792	0.82561278	-2.628250639	0.046631476	0.701104385
PTPRS	0.884219455	0.900703769	0.016484315	1.011491583	0.518488298	0.626238093	0.855404931	PTPRS	0.884219455	0.941965942	0.057746488	1.040838684	1.866236479	0.120997188	0.701104385
PTPRZ	0.324049077	0.323414337	-0.00063474	0.999560128	-0.007531481	0.994282064	0.996266494	PTPRZ	0.324049077	0.281231538	-0.042817539	0.970757236	-0.445813651	0.674373652	0.911250419
PYGB	-1.035148643	-0.959242906	0.075905737	1.054022553	1.453658984	0.205781219	0.622510479	PYGB	-1.035148643	-0.969331035	0.065817608	1.046677948	2.683163532	0.043654424	0.701104385
Q6FHZ0	-0.829531153	-0.728487604	0.101043548	1.072548992	1.984004852	0.104044093	0.599268681	Q6FHZ0	-0.829531153	-0.774847588	0.054683565	1.038631269	1.448509732	0.207143316	0.701104385
Q6NVC0	2.829762722	2.789675276	-0.040087446	0.972595994	-0.79398316	0.463204982	0.783169648	Q6NVC0	2.829762722	2.853077031	0.023314309	1.01629153	0.446851834	0.673672625	0.911250419
Q6PJ43	-0.459095338	-0.400160759	0.058934578	1.04169619	1.724900178	0.145142385	0.599268681	Q6PJ43	-0.459095338	-0.435132828	0.02396251	1.016748252	0.701064906	0.51453844	0.840204914
RAB14	0.202476474	0.268382367	0.065905893	1.046742001	1.501226151	0.193598558	0.613333248	RAB14	0.202476474	0.254592933	0.05211646	1.036784791	2.186695196	0.080431042	0.701104385
RAB1A	0.578256511	0.699495269	0.121238758	1.087668379	3.131932272	0.025900904	0.599268681	RAB1A	0.578256511	0.656308733	0.078052222	1.055591927	2.048036456	0.095882277	0.701104385
RAB2A	0.334927032	0.439422232	0.1044952	1.07511814	2.818358618	0.037180389	0.599268681	RAB2A	0.334927032	0.380291419	0.045364387	1.031943788	1.139728108	0.306037551	0.740068144
RAB3A	-0.147347373	-0.13296107	0.014386303	1.01002171	0.803706368	0.458056577	0.783169648	RAB3A	-0.147347373	-0.134124074	0.0132233	1.009207826	0.580055852	0.587033398	0.871305477
RABE1	-0.669566999	-0.859437868	-0.189870868	0.876684187	-1.655428073	0.158741123	0.599268681	RABE1	-0.669566999	-0.659655428	0.009911571	1.006893831	0.119560429	0.909486747	0.976856136
RAC1	0.405754393	0.536708079	0.130953686	1.095017318	3.326871087	0.020850408	0.599268681	RAC1	0.405754393	0.474505362	0.068750968	1.048808271	1.297611918	0.251058599	0.701104385
RALA	0.355282456	0.371127376	0.01584492	1.011043395	0.404217714	0.702762568	0.889065396	RALA	0.355282456	0.401272369	0.045989912	1.032391317	0.644760719	0.547494242	0.842273365
RAN	-1.715941528	-1.720487966	-0.004546438	0.99685361	-0.067493878	0.94880438	0.97465736	RAN	-1.715941528	-1.687655739	0.028285789	1.019799679	0.656002534	0.540804776	0.840204914
RAP1A	-0.037733261	0.118511453	0.156244715	1.11438266	3.247213966	0.022766158	0.599268681	RAP1A	-0.037733261	-4.45E-05	0.037688741	1.026468063	0.816599945	0.451295146	0.838585027
RB39A	0.006458608	0.048576904	0.042118295	1.029624505	1.003400111	0.361726135	0.726116715	RB39A	0.006458608	0.07836478	0.071906172	1.051104546	1.638042018	0.162338832	0.701104385
RGS7	0.819506925	0.826096021	0.006589097	1.004577659	0.192186551	0.855157789	0.93836189	RGS7	0.819506925	0.900689584	0.081182659	1.057884894	1.465927417	0.202570402	0.701104385
RHG01	-0.380442108	-0.458572508	-0.0781304	0.947284445	-0.554403053	0.603185851	0.855259588	RHG01	-0.380442108	-0.298826311	0.081615797	1.058202548	0.697116796	0.516804378	0.840204914
RHG35	0.152327709	0.107807848	-0.044519862	0.969612457	-0.393820039	0.709948072	0.89333644	RHG35	0.152327709	-0.06455135	-0.21687906	0.860424756	-1.926321588	0.112017163	0.701104385
RHOA	-0.500564456	-0.397385296	0.10317916	1.074137854	1.661980589	0.157405882	0.599268681	RHOA	-0.500564456	-0.495896773	0.004667684	1.003240631	0.076112467	0.942281256	0.984662387
RHOB	0.958421234	1.012201353	0.05378012	1.03798106	0.846326397	0.435992204	0.768079723	RHOB	0.958421234	1.025068169	0.066646936	1.0472798	1.087009569	0.326634246	0.744678133
ROA2	-1.983618632	-1.989915859	-0.006297227	0.995644607	-0.063990269	0.951457479	0.97472682	ROA2	-1.983618632	-1.912796381	0.070822251	1.05031513	1.460543181	0.203973574	0.701104385
RP3A	0.727893472	0.54528709	-0.182606382	0.881109739	-1.714309215	0.147137453	0.599268681	RP3A	0.727893472	0.597041897	-0.130851576	0.913292205	-1.258734262	0.263697965	0.710100947
RTN1	0.594471585	0.664544821	0.070073236	1.049769972	1.793644661	0.132840115	0.599268681	RTN1	0.594471585	0.646108685	0.051637101	1.036440359	0.993207503	0.36621196	0.772390839
RTN4	0.375772121	0.416006997	0.040234877	1.028281221	1.599796859	0.170539855	0.599268681	RTN4	0.375772121	0.36113987	-0.01463225	0.989908957	-0.654708757	0.541571883	0.840204914
RUFY3	0.048185667	0.008284976	-0.039900691	0.972721903	-0.461852352	0.663585779	0.865646501	RUFY3	0.048185667	-0.01512916	-0.063314827	0.957062584	-0.719152414	0.504245122	0.840204914
S12A5	1.004986488	1.117880264	0.112893776	1.081395138	1.737169376	0.142865205	0.599268681	S12A5	1.004986488	1.045568674	0.040582186	1.028528796	0.659422565	0.538780433	0.840204914
S4A4	0.640506557	0.770789083	0.130282525	1.09450802	1.535554328	0.18524253	0.613333248	S4A4	0.640506557	0.69485922	0.054352663	1.038393072	0.722027622	0.502622181	0.840204914
SAR1B	-0.007938665	-0.169240406	-0.16130174	0.894217856	-1.284549976	0.255241856	0.682883507	SAR1B	-0.007938665	-0.106130482	-0.098191816	0.93420313	-1.250715151	0.266376182	0.712225677
SC6A1	0.918235422	1.033074653	0.114839231	1.082854369	1.514412793	0.190346352	0.613333248	SC6A1	0.918235422	1.044246869	0.126011447	1.091272535	1.861238155	0.121776853	0.701104385
SCOT1	-1.144938046	-1.127134476	0.01780357	1.012416953	0.187401668	0.858713135	0.93836189	SCOT1	-1.144938046	-1.040989556	0.10394849	1.074710801	1.377117662	0.226934324	0.701104385
SDHA	0.508450898	0.55881814	0.050367241	1.035528487	0.887277177	0.415564049	0.761445491	SDHA	0.508450898	0.586579587	0.078128688	1.055647877	1.134055637	0.30819814	0.740068144
SDHB	0.679694164	0.725302759	0.045608594	1.032118482	0.860086792	0.429043488	0.7652291	SDHB	0.679694164	0.659544427	-0.020149737	0.986130349	-0.430499032	0.684757955	0.915438826
SEP11	0.371223159	0.608236039	0.237012881	1.17854993	2.206497338	0.078449532	0.599268681	SEP11	0.371223159	0.495231219	0.124008061	1.089758201	1.1138635	0.31599741	0.744678133
SEPT2	0.797274859	0.88936814	0.092093281	1.065915653	1.355148898	0.233374775	0.66152098	SEPT2	0.797274859	0.79972887	0.002454011	1.001702438	0.031751161	0.975898953	0.994361906
SEPT3	0.379368118	0.405772628	0.02640451	1.018470724	0.679183497	0.527182641	0.817484903	SEPT3	0.379368118	0.424245758	0.04487764	1.031595682	1.329648336	0.241064642	0.701104385
SEPT4	0.629942234	0.657012015	0.027069781	1.01894048	0.969948398	0.376619955	0.735677322	SEPT4	0.629942234	0.642475716	0.012533482	1.008725394	0.377553789	0.721257757	0.940879496
SEPT5	0.5982825	0.616230807	0.017948307	1.012518527	0.273574799	0.795352495	0.919848905	SEPT5	0.5982825	0.543776274	-0.054506225	0.962923956	-0.96581027	0.378496776	0.784029036
SEPT7	0.532150361	0.605261448	0.073111086	1.051982778	2.084897303	0.091490881	0.599268681	SEPT7	0.532150361	0.572153305	0.040002944	1.028115924	1.284716606	0.255188091	0.707019134
SEPT8	0.468546047	0.541884967	0.07333892	1.052148922	1.057826496	0.338540357	0.725189245	SEPT8	0.468546047	0.517609073	0.049063026	1.034592778	0.439221789	0.678833485	0.914000799

SEPT9	0.607380092	0.688682179	0.081302088	1.057972471	1.434364792	0.210929441	0.626144877	SEPT9	0.607380092	0.675036223	0.067656131	1.04801265	0.54965528	0.606204218	0.883102462
SERA	-0.655764734	-0.676516626	-0.020751892	0.985718841	-0.428393209	0.686192103	0.879057516	SERA	-0.655764734	-0.636752457	0.019012277	1.013265523	0.475634182	0.654388986	0.894787818
SH3G2	-0.822609918	-0.891160337	-0.068550418	0.953595664	-1.162538474	0.297482781	0.696820273	SH3G2	-0.822609918	-0.894602201	-0.071992283	0.951323365	-0.972679604	0.375385395	0.781880077
SHAN3	1.538738991	1.343350085	-0.195388906	0.873337439	-0.866132311	0.426017641	0.7652291	SHAN3	1.538738991	1.201510511	-0.33722848	0.791560496	-1.484144158	0.197891399	0.701104385
SHLB2	-0.262745406	-0.205473509	0.057271897	1.040496345	0.639499738	0.550643348	0.821069404	SHLB2	-0.262745406	-0.225390149	0.037355257	1.026230819	0.404503828	0.702565336	0.929358357
SNAA	-0.046184578	-0.035134786	0.011049792	1.007688538	0.272785148	0.795925946	0.919848905	SNAA	-0.046184578	0.005702829	0.051887407	1.036620196	1.956424832	0.107780004	0.701104385
SNAB	-0.226136129	-0.17843935	0.047696778	1.033613471	0.796730039	0.461746207	0.783169648	SNAB	-0.226136129	-0.22642397	-0.000287841	0.999800503	-0.005095367	0.99613155	0.997824096
SNP25	1.29204684	1.270145472	-0.021901369	0.984933777	-0.18135891	0.863208549	0.940548044	SNP25	1.29204684	1.237324451	-0.054722389	0.962779688	-0.351658464	0.739429058	0.948179438
SNPH	0.92717298	0.928747324	0.001574344	1.001091848	0.014997503	0.988614207	0.996266494	SNPH	0.92717298	0.92915331	0.00198033	1.001373602	0.025008201	0.981015814	0.996881299
SPTA1	1.336734418	1.424645789	0.087911371	1.06283038	1.615926995	0.167032225	0.599268681	SPTA1	1.336734418	1.368051975	0.031317558	1.021945002	0.548886614	0.606693734	0.883102462
SPTB1	0.694574147	0.789254339	0.094680192	1.067828672	1.617529399	0.166687685	0.599268681	SPTB1	0.694574147	0.794059738	0.099485591	1.071391378	2.02017773	0.099347762	0.701104385
SRC	0.474381753	0.527037767	0.052656014	1.037172611	0.789566675	0.465557545	0.783169648	SRC	0.474381753	0.556198556	0.081816804	1.058349995	1.350262567	0.234830337	0.701104385
SRCN1	0.869685111	0.628892752	-0.240792359	0.846280389	-2.200693831	0.07902482	0.599268681	SRCN1	0.869685111	0.691963564	-0.177721547	0.884098153	-1.15095199	0.301801532	0.740068144
STIP1	-0.917091725	-1.012315693	-0.095223968	0.936126909	-2.283889194	0.071191022	0.599268681	STIP1	-0.917091725	-0.977106161	-0.060014436	0.959254521	-1.498488296	0.1942805	0.701104385
STX1A	1.539932252	1.623809907	0.083877655	1.0598629	2.443706914	0.058386692	0.599268681	STX1A	1.539932252	1.644418833	0.104486581	1.075111717	2.219473099	0.077179363	0.701104385
STX1B	1.262590241	1.381904844	0.119314603	1.086218698	2.94423029	0.032099014	0.599268681	STX1B	1.262590241	1.306578398	0.043988157	1.030959855	0.759189992	0.481975772	0.840204914
STXB1	0.273829559	0.414482926	0.140653367	1.102404259	3.307407252	0.021301096	0.599268681	STXB1	0.273829559	0.274475946	0.000646387	1.000448141	0.019475326	0.985215194	0.997824096
SUCB1	-0.656432769	-0.640774419	0.01565835	1.010912654	0.205646498	0.845177717	0.93836189	SUCB1	-0.656432769	-0.684045789	-0.02761302	0.981042118	-0.342614417	0.745821948	0.949291667
SV2A	0.849526677	0.928392706	0.078866029	1.056187541	2.535924707	0.052152041	0.599268681	SV2A	0.849526677	0.864486237	0.014959561	1.010423124	0.360844939	0.732959823	0.946321415
SYGP1	0.452952689	-0.474734836	-0.927687525	0.525700304	-2.029635917	0.098156726	0.599268681	SYGP1	0.452952689	-0.08707231	-0.540025	0.687758991	-1.051128389	0.341324508	0.748135696
SYN1	0.627376008	0.602418343	-0.024957665	0.98284944	-0.794848441	0.462745094	0.783169648	SYN1	0.627376008	0.689700521	0.062324514	1.044146767	1.311924253	0.246547391	0.701104385
SYN2	0.348044421	0.240378127	-0.107666294	0.928088125	-2.635738545	0.046212683	0.599268681	SYN2	0.348044421	0.356280156	0.008235735	1.005724902	0.156912677	0.881452985	0.974509605
SYNJ1	-0.349614043	-0.340122958	0.009491085	1.006600406	0.215021452	0.838245791	0.93836189	SYNJ1	-0.349614043	-0.360899888	-0.011285845	0.992207767	-0.24643574	0.815142544	0.958518887
SYT1	1.206376828	1.284063379	0.077686551	1.055324406	2.053172251	0.095257371	0.599268681	SYT1	1.206376828	1.241608229	0.035231401	1.02472117	0.811863688	0.453770147	0.838585027
SYT2	1.134647132	1.204012814	0.069365682	1.04925525	1.523324944	0.18817841	0.613333248	SYT2	1.134647132	1.15086416	0.016217028	1.011304202	0.316178949	0.764639702	0.954130004
SYT7	0.980766529	1.039181475	0.058414947	1.041321059	0.68719209	0.522530605	0.817222214	SYT7	0.980766529	0.985621358	0.004854829	1.00337078	0.065382884	0.950402837	0.984662387
TAU	0.703993257	0.758772031	0.054778773	1.038699814	0.908664352	0.405195493	0.759993537	TAU	0.703993257	0.741023241	0.037029984	1.025999469	0.790611248	0.465000333	0.838780504
TBA1A	-0.760196331	-0.921895341	-0.161699009	0.893971653	-2.44856876	0.058038481	0.599268681	TBA1A	-0.760196331	-0.878893281	-0.11869695	0.921019145	-1.316090475	0.245248338	0.701104385
TBB2A	-0.731350127	-0.887673926	-0.156323799	0.897308635	-2.099282737	0.089834982	0.599268681	TBB2A	-0.731350127	-0.816828011	-0.085477884	0.942472296	-1.037295526	0.347135558	0.756474597
TBB5	-0.636862567	-0.791820834	-0.154958266	0.898158354	-2.202976213	0.078798038	0.599268681	TBB5	-0.636862567	-0.728991517	-0.092128949	0.938137341	-1.071276377	0.333007906	0.747299272
TEBP	-0.362374783	-0.551221303	-0.18884652	0.877306876	-1.483148381	0.198144457	0.621403557	TEBP	-0.362374783	-0.477121513	-0.11474673	0.923544428	-0.953041779	0.384335788	0.785904876
TFR1	0.611700522	0.666327502	0.05462698	1.038590533	1.032856048	0.349018093	0.726116715	TFR1	0.611700522	0.657839011	0.046138489	1.032497643	0.941132221	0.389847449	0.785904876
TPIS	-2.123990522	-2.039861435	0.084129087	1.060047628	1.568261394	0.17760832	0.608712152	TPIS	-2.123990522	-2.041683849	0.082306673	1.058709421	2.325981027	0.067548439	0.701104385
UBA1	-1.388989321	-1.478385052	-0.089395731	0.939916348	-1.517060652	0.189699724	0.613333248	UBA1	-1.388989321	-1.454153466	-0.065164145	0.955836559	-0.924350768	0.397721326	0.785904876
UBE2N	-0.585821034	-0.613759236	-0.027938202	0.980821017	-0.282974359	0.788537804	0.919848905	UBE2N	-0.585821034	-0.584299518	0.001521517	1.001055191	0.016431706	0.987525502	0.997824096
UBP5	-0.674986007	-0.647563416	0.02742259	1.019189691	0.216212027	0.837366642	0.93836189	UBP5	-0.674986007	-0.624577961	0.050408045	1.035557775	0.465454024	0.661175756	0.899867365
UCLH1	-1.758156811	-1.728169499	0.029987312	1.021003146	0.32647938	0.757284642	0.915190738	UCLH1	-1.758156811	-1.692417373	0.065739437	1.046621236	0.66750779	0.53401476	0.840204914
USO1	-0.28428398	-0.168330301	0.115953679	1.083691172	1.478059705	0.199442521	0.621403557	USO1	-0.28428398	-0.29779038	-0.0135064	0.990681763	-0.058083203	0.955932185	0.984662387
VAPA	0.598557695	0.579406015	-0.01915168	0.986812791	-0.272639486	0.796031743	0.919848905	VAPA	0.598557695	0.701215837	0.102658142	1.073750008	1.365657747	0.230272883	0.701104385
VAPB	0.895699402	1.066220633	0.170521231	1.12546503	1.235634196	0.271479832	0.690387094	VAPB	0.895699402	1.061469596	0.165770194	1.121764781	1.701131157	0.149658389	0.701104385
VAT1L	-1.588392503	-1.610864504	-0.022472001	0.984544281	-0.286249827	0.786168077	0.919848905	VAT1L	-1.588392503	-1.577331253	0.01106125	1.007696541	0.07696285	0.941637897	0.984662387
VATA	0.184002432	0.255666197	0.071663764	1.05092795	1.614147193	0.167415734	0.599268681	VATA	0.184002432	0.242405245	0.058402813	1.0413123	0.831558997	0.443544505	0.831921783
VATB2	0.092973582	0.128990265	0.036016683	1.025279094	1.073512738	0.332095508	0.719846663	VATB2	0.092973582	0.107846847	0.014873265	1.010362686	0.327969384	0.756223083	0.95032034
VATC1	0.521675756	0.543330765	0.021655009	1.015123326	1.008684572	0.35941837	0.726116715	VATC1	0.521675756	0.55607993	0.034404174	1.024133773	1.012017145	0.357969301	0.769774105

VATD	0.301227284	0.343173952	0.041946667	1.029502025	1.278589909	0.257171807	0.682883507	VATD	0.301227284	0.35400875	0.052781465	1.037262804	1.147291188	0.303177474	0.740068144
VATE1	0.468683119	0.528162028	0.059478908	1.042089297	1.544342114	0.183160448	0.613333248	VATE1	0.468683119	0.525464636	0.056781517	1.040142734	1.317892838	0.244688314	0.701104385
VATH	0.188913597	0.237286795	0.048373199	1.034098204	2.309376951	0.068960833	0.599268681	VATH	0.188913597	0.209304855	0.020391259	1.014234503	0.583938805	0.584611677	0.87114072
VDAC1	0.844917675	0.881667803	0.036750128	1.025800463	0.960478495	0.380926174	0.738259164	VDAC1	0.844917675	0.879750093	0.034832418	1.024437818	1.100558733	0.321229474	0.744678133
VDAC2	1.409210401	1.421120833	0.011910432	1.008289855	0.315802793	0.764908837	0.918100283	VDAC2	1.409210401	1.436494463	0.027284062	1.019091833	1.204465148	0.282308469	0.734002019
VDAC3	1.288305088	1.322677407	0.034372319	1.024111161	0.82387121	0.447515122	0.781079635	VDAC3	1.288305088	1.335640629	0.047335541	1.033354697	1.107921017	0.318325097	0.744678133
VGLU1	0.966056309	0.959800193	-0.006256116	0.995672979	-0.189678195	0.857021111	0.93836189	VGLU1	0.966056309	0.974493842	0.008437533	1.005865588	0.220402309	0.834274589	0.964789938
VIME	0.098014599	0.293160774	0.195146175	1.144840151	1.743787907	0.141651791	0.599268681	VIME	0.098014599	0.368856706	0.270842108	1.206511869	4.436446428	0.006787252	0.543407796
VINC	-0.528615929	-0.541686822	-0.013070893	0.990980866	-0.125291638	0.905174439	0.963985208	VINC	-0.528615929	-0.501685847	0.026930082	1.018841819	0.245167125	0.816071606	0.958518887
VISL1	0.182859996	0.252499903	0.069639908	1.04945471	1.985117558	0.103896229	0.599268681	VISL1	0.182859996	0.196265326	0.01340533	1.00933517	0.385017543	0.716058057	0.937339888
VP26B	-0.509825679	-0.30316979	0.206655889	1.154010131	3.689389941	0.014154612	0.599268681	VP26B	-0.509825679	-0.44236405	0.067461629	1.047871368	0.628916288	0.557013994	0.849889236
VPP1	1.096101778	1.148748516	0.052646738	1.037165942	2.030959023	0.097991308	0.599268681	VPP1	1.096101778	1.13226294	0.036161162	1.025381776	1.031820001	0.349458654	0.757160417
VPS35	-0.364275355	-0.568504855	-0.2042295	0.868002137	-1.877028174	0.119331287	0.599268681	VPS35	-0.364275355	-0.507564728	-0.143289374	0.90545235	-1.559237668	0.179683295	0.701104385
XPOT	-0.260091985	-0.254469399	0.005622585	1.003904883	0.160762557	0.878573909	0.951788402	XPOT	-0.260091985	-0.392241284	-0.132149299	0.912471055	-1.326287006	0.242095672	0.701104385
ZNT1	-0.680583194	-0.606196734	0.07438646	1.052913164	0.68365298	0.52458296	0.817222214	ZNT1	-0.680583194	-0.590531636	0.090051558	1.064408221	2.330180225	0.067196195	0.701104385

Reports the log 2 synaptosome protein levels for each animal as well as summary statistics for differences between the vehicle and haloperidol and vehicle and olanzapine groups.

eTable 7. Eigenprotein Human Homogenate

HU	Pair	Group	Green	Orange	MEgrey	Turquoise
1326	1	C	-0.147093361	0.081487477	-0.117021949	0.086066496
1247	2	C	-0.207965345	0.126750499	0.104092724	0.110611515
1086	3	C	0.106207757	-0.072912796	-0.024010962	-0.033909612
10005	4	C	0.069516306	-0.094265032	0.086577709	0.032609233
1201	5	C	-0.072706083	-0.027329961	-0.103707716	0.084729491
1255	6	C	-0.046967001	0.022328861	-0.108524705	0.036016958
1480	7	C	-0.021590069	0.0311057	-0.147212658	0.017334598
1119	8	C	-0.030930039	0.016364872	0.03119853	0.040751787
1317	9	C	-0.071960109	0.034983234	0.156101937	0.053304439
1307	10	C	0.154834057	-0.152050385	0.198167994	0.026960088
1067	11	C	0.041609297	-0.034603001	0.042649991	-0.015732924
1196	12	C	-0.04633748	0.071875507	0.111678854	0.102115988
1099	13	C	0.045418489	-0.027097457	-0.021865925	0.039249464
806	14	C	0.021325206	-0.01610117	0.04345694	-0.176856598
739	15	C	0.103975207	-0.052436233	0.037826384	-0.00745401
822	16	C	0.069567555	-0.187881385	0.161173598	0.105539763
727	17	C	0.211774643	-0.369826214	-0.251680799	0.090474302
659	18	C	-0.090273529	0.073688848	-0.003322558	0.076040232
852	19	C	-0.031756766	0.071170849	0.026622065	-0.028795398
685	20	C	-0.061257753	0.034086106	-0.101050207	0.049270468
686	21	C	0.170727767	-0.224800704	0.183874121	-0.054142331
1092	22	C	-0.087621272	-0.167392613	-0.039323379	0.194229318
1488	23	C	-0.056272767	0.060791136	0.000288676	-0.076405536
1047	24	C	-0.02241664	-0.026534693	0.05114837	0.023797691
700	25	C	-0.168431469	0.077485843	-0.020261227	0.145610888
818	26	C	-0.064847247	0.042303182	0.000156319	0.092761612
567	27	C	0.018966017	0.017793752	0.029392962	-0.0403977
871	28	C	0.089537412	-0.08183164	-0.070934317	-0.067240828
988	29	C	-0.06037878	0.074039871	-0.028265975	0.02729534
1284	30	C	-0.09502581	0.118941017	-0.035984233	0.066533955
1555	31	C	0.16435534	-0.209332193	0.055296208	-0.069241634
1268	32	C	-0.027668198	0.058362239	0.112955338	0.022900738
1466	33	C	0.124815857	-0.036503376	0.1095008	-0.05428341
1386	34	C	-0.18499641	-0.004459069	-0.081723562	0.230236088
1026	35	C	-0.084357009	0.040167928	0.131557869	-0.036455047
1524	36	C	0.05347205	-0.030601337	0.027972626	-0.044525181
1270	37	C	-0.12778084	0.063711826	0.094667826	0.132555607
1372	38	C	-0.1740693	0.125691136	-0.020924039	0.104656772
1543	39	C	-0.059075691	-0.042224525	0.023954842	0.133543258
1583	40	C	-0.038522176	-0.000809787	0.021511464	0.029200188
1384	41	C	-0.050826489	-0.013984699	-0.003618687	0.106764496
630	42	C	-0.146323507	0.099857146	-0.055186472	0.02027193

546	43	C	0.084706681	-0.090036212	-0.109108439	0.009242537
681	44	C	-0.007141738	0.06217158	0.077148191	0.01040199
1374	45	C	0.00580186	-0.070340461	-0.139395233	0.100810862
1159	46	C	-0.063325552	0.036289932	-0.141640005	0.110297418
857	47	C	0.107382335	-0.126250252	-0.025108413	-0.001534225
1391	48	C	-0.052763014	0.103133428	0.006032296	-0.02154234
1453	1	Sz	0.039766762	0.067556862	0.031260603	-0.108576017
1240	2	Sz	0.151342744	-0.159416366	-0.019250521	0.038505878
10025	3	Sz	0.061338428	0.050248585	0.045177995	-0.056836904
1256	4	Sz	0.003900503	-0.041943169	0.008115418	-0.006605388
1189	5	Sz	0.048343034	0.057899927	0.016902136	-0.138928675
10020	6	Sz	0.097368133	-0.08469139	-0.257118185	-0.061872611
1263	7	Sz	0.091638395	0.070507643	0.020985951	-0.158045539
1173	8	Sz	-0.000134612	0.121655461	0.084571447	-0.091893716
1361	9	Sz	0.256063733	-0.04289306	-0.002786734	-0.343870088
10024	10	Sz	-0.023200703	-0.017577042	-0.056226787	0.025527289
1296	11	Sz	-0.054843674	0.132662924	0.033981522	-0.018819813
1211	12	Sz	-0.045832637	0.11754161	0.064805977	0.060340603
10023	13	Sz	0.023896727	-0.100064524	0.02128783	0.115133618
665	14	Sz	-0.143395291	0.127062014	-0.043383855	-0.006788857
1088	15	Sz	-0.133664428	0.196967044	-0.020402128	-0.039978964
787	16	Sz	0.030088556	-0.187154878	0.232848138	0.121416656
829	17	Sz	0.161968146	-0.232406785	0.038163944	0.069482235
930	18	Sz	-0.051767042	0.153160624	-0.00358388	-0.106361092
722	19	Sz	-0.115347535	0.089725971	0.131219611	0.103600596
1105	20	Sz	0.006195555	0.02951946	0.061004033	-0.018041622
802	21	Sz	0.207841653	-0.08508038	-0.266474885	-0.203170661
1010	22	Sz	0.04457814	-0.044448329	-0.092443888	-0.0554315
1222	23	Sz	0.066044859	-0.102839982	-0.031505238	-0.108035693
933	24	Sz	0.09166865	0.033336512	-0.173865554	-0.142514199
625	25	Sz	0.014490105	-0.093153668	0.252930478	0.080585626
917	26	Sz	-0.048182835	-0.058986994	-0.103226599	-0.026590556
537	27	Sz	0.035572877	-0.050084367	-0.014507181	0.084815811
878	28	Sz	0.038891219	-0.002040476	-0.050728376	-0.062934955
621	29	Sz	-0.081759251	0.029756714	-0.128027942	-0.001409921
1188	30	Sz	-0.020366235	0.029635843	0.031580778	-0.00265187
1649	31	Sz	0.06529892	-0.034515141	-0.156217085	-0.032189192
1230	32	Sz	-0.192652151	0.182882135	0.042284408	0.11448247
1341	33	Sz	-0.013938826	0.09005222	-0.078523644	-0.068934158
1420	34	Sz	-0.093087577	-0.073875724	-0.018944502	0.298539208
1454	35	Sz	0.103169992	0.060923639	-0.117258311	-0.179579184
1542	36	Sz	0.025524974	0.021065761	-0.038842572	-0.113031633
1579	37	Sz	-0.168659681	0.210196796	-0.093001363	-0.059620042
1581	38	Sz	-0.122167268	-0.004406934	0.049397332	0.09927945

10026	39	Sz	0.114879039	-0.137052293	0.078927295	-0.03676044
1686	40	Sz	0.037301001	-0.035502126	0.234663791	-0.022267841
1712	41	Sz	-0.014282831	0.096019516	0.06684343	-0.129038467
566	42	Sz	0.01421084	0.072606179	0.039700547	-0.045687807
587	43	Sz	0.2578096	-0.09426536	0.122265701	-0.284059558
640	44	Sz	0.032939984	0.043895541	0.080071436	-0.001983533
904	45	Sz	-0.084975988	0.121375237	-0.190493771	-0.007101419
1314	46	Sz	0.06837357	0.121840447	-0.091434875	-0.187300678
1455	47	Sz	0.139507868	-0.057201674	-0.064148376	-0.082700344
1506	48	Sz	-0.165067833	0.026529223	0.048273277	0.014234764
			Green	Orange	MEgrey	Turquoise
		Control Avg	-0.015764325	-0.012812984	0.005731941	0.037159765
		Sz Avg	0.015764325	0.012812984	-0.005731941	-0.037159765
		Sz-Control Dif	0.03152865	0.025625968	-0.011463882	-0.074319531
		ttest, Paired	0.09033951	0.116511217	0.592408888	6.99435E-05
		ttest, unpaired	0.132946451	0.222934576	0.586794285	0.000265729

eTable 8. Eigenprotein Human Synaptosome

HU	Pair	Group	Magenta	Dark Red	grey	Blue
1386	34	C	-0.133081148	0.076676132	-0.11673322	0.161714568
1247	2	C	0.032110063	-0.168112256	-0.190225102	0.065493628
1086	3	C	0.042220669	-0.017157385	-0.040416769	0.117297875
10005	4	C	0.065977391	-0.027604381	0.016194388	0.082128647
1201	5	C	0.024795193	-0.201730824	0.004015132	-0.033338398
1255	6	C	-0.091311768	-0.088779331	-0.057230231	-0.212283026
1480	7	C	0.11616745	0.044682976	-0.033800214	0.026661317
1119	8	C	0.061908958	0.045113873	-0.003212218	0.033804446
1317	9	C	0.064319217	-0.069259518	-0.064307733	0.032351183
1307	10	C	0.0448139	0.10392652	0.079935758	-0.000277111
1067	11	C	0.02185699	0.053492059	0.045330612	0.041219075
1196	12	C	0.077967417	0.030453154	0.038196613	0.000580692
1099	13	C	0.060114605	-0.011666345	-0.132877498	0.059183582
806	14	C	0.01310182	0.043856681	-0.031896855	0.056336452
739	15	C	0.037617306	0.077744841	-0.073091214	0.000939691
822	16	C	0.099211751	0.020605684	-0.006169339	0.064775963
727	17	C	0.062501743	0.038975208	0.267605523	0.147746519
659	18	C	0.095301934	-0.021262458	0.041087284	0.089064704
852	19	C	0.061018777	0.013238127	0.06962403	0.056553523
685	20	C	0.081222368	-0.019942439	-0.021642665	0.091659876
686	21	C	-0.327572633	0.273878817	-0.079772297	0.045413015
1092	22	C	0.013230183	-0.033831546	-0.008978327	0.115742258

1488	23	C	0.139843718	-0.109524298	-0.115576101	-0.071547363
1047	24	C	0.022324648	0.008531097	0.064355685	0.119243069
700	25	C	0.085667072	-0.025802272	0.130146886	0.039883641
818	26	C	0.020916078	0.016614725	0.026684758	-0.051439763
567	27	C	0.070706468	0.020941281	0.064043012	0.052372763
871	28	C	0.060359363	0.0539826	-0.011119055	0.009218875
988	29	C	-0.150995618	-0.063532151	0.035726863	0.153502982
1284	30	C	0.060525817	-0.056659903	0.086840615	0.108474542
1555	31	C	0.032883937	0.128816345	0.049024688	0.056172931
1268	32	C	0.069882726	-0.038753559	0.163797609	0.122064182
1466	33	C	0.07814484	0.054186923	0.098529726	0.022529111
1026	35	C	-0.267795477	0.3481328	-0.107942328	-0.33740545
1524	36	C	0.075722895	-0.004795185	0.072289016	-0.017448017
1270	37	C	-0.026822585	0.055554868	-0.018200863	0.150885224
1372	38	C	-0.040041219	-0.059700331	-0.129013817	0.00252878
1543	39	C	0.030103387	-0.022477589	-0.117211824	0.131512557
1583	40	C	0.024416899	0.159045802	0.126516109	-0.061777899
1384	41	C	0.044732286	0.048659549	0.064424971	0.086673414
630	42	C	0.053587042	0.039679055	-0.025132109	0.073483284
546	43	C	0.109676442	0.032718113	-0.020837446	-0.011529128
681	44	C	0.020721427	0.006926371	-0.117441996	0.151754059
1374	45	C	0.010023128	0.093493557	0.044835521	0.057777591
1159	46	C	-0.226013056	0.180811912	-0.041625316	0.042151127
857	47	C	-0.300687887	0.204966628	0.023755173	-0.048695899
1391	48	C	0.03555779	0.011212614	-0.124639034	-0.009170496
1453	1	Sz	-0.034081726	0.058396228	0.038983744	-0.028856721
1240	2	Sz	0.038023023	-0.143420218	-0.060705309	0.002154344
10025	3	Sz	-0.159121971	0.268341135	0.032092743	-0.095788268
1256	4	Sz	0.042035972	0.078653436	-0.046776728	0.029778342
1189	5	Sz	-0.17640858	-0.017877223	0.035862387	0.09996
10020	6	Sz	-0.066928639	-0.097876331	-0.071131451	-0.151034693
1263	7	Sz	-0.007182257	0.102830609	0.07457735	-0.116260841
1173	8	Sz	0.04011247	0.050954745	0.045115176	-0.024482594
1361	9	Sz	0.090771935	-0.019501701	0.011934997	0.033038906
10024	10	Sz	-0.14219568	-0.058499005	-0.178497394	-0.103807753
1296	11	Sz	0.085196972	-0.16277172	-0.045756286	-0.001258914
1211	12	Sz	0.104169244	-0.0507146	-0.062464018	-0.050569008
10023	13	Sz	-0.202651091	-0.035186683	0.168923064	-0.001283202
665	14	Sz	0.079440924	0.023561548	-0.006345133	-0.045537936
1088	15	Sz	0.059994228	-0.052820119	-0.061078807	-0.147556288
787	16	Sz	0.084572249	-0.044758356	-0.037450166	0.083242589
829	17	Sz	-0.10438793	0.07112561	0.103890847	-0.059704788
930	18	Sz	0.095609154	-0.142749025	-0.100470343	-0.208739293
722	19	Sz	0.047124496	0.035843469	0.084376637	0.003780784

1105	20	Sz	-0.020184186	-0.025444807	-0.185248851	-0.067251706
802	21	Sz	-0.207381819	-0.106030963	0.269425757	0.174799127
1010	22	Sz	0.03925648	-0.214956075	-0.044830471	-0.042501552
1222	23	Sz	0.040874782	-0.074804181	-0.078465722	-0.084776447
933	24	Sz	0.045443796	-0.204880789	0.369256925	-0.053489933
625	25	Sz	0.048643632	-0.043182239	0.085214244	-0.028638732
917	26	Sz	0.015778079	-0.056895009	-0.19698361	-0.186218598
537	27	Sz	0.072549388	-0.048569003	0.131198071	-0.059255633
878	28	Sz	0.039535327	0.063411252	0.034936171	-0.019164126
621	29	Sz	-0.176202317	-0.070239943	0.056436074	0.037533012
1188	30	Sz	0.038111371	-0.052672601	-0.106211612	-0.183907577
1649	31	Sz	-0.076557931	0.061954701	0.066896038	0.200339926
1230	32	Sz	0.105140218	-0.230700231	-0.155353318	-0.012519166
1341	33	Sz	0.020032661	0.059975229	-0.092960074	-0.006171628
1454	35	Sz	0.15076679	-0.218740575	0.086968795	-0.23277815
1542	36	Sz	0.054050233	0.022589869	0.006794332	-0.037008797
1579	37	Sz	-0.085253101	0.055304083	-0.040157384	0.088906898
1581	38	Sz	-0.162022283	0.136252629	0.023739171	-0.009174557
10026	39	Sz	0.035919233	-0.060476796	0.13943647	0.134728059
1686	40	Sz	-0.072490082	0.100040488	0.01987874	-0.247874294
1712	41	Sz	0.017471058	-0.044660862	0.052266603	-0.142598773
566	42	Sz	0.074651849	-0.189378283	0.002452681	-0.078848219
587	43	Sz	0.046749804	0.007948943	0.07121839	0.034122751
640	44	Sz	0.027742608	-0.01131238	-0.037036303	0.032727832
904	45	Sz	-0.041950918	0.065966212	-0.01574081	-0.207894844
1314	46	Sz	-0.212689382	-0.110383596	-0.097134066	0.076748262
1455	47	Sz	-0.223058131	0.051579827	0.079346585	0.013069031
1506	48	Sz	-0.025952262	0.02844676	-0.294290532	-0.123959431
			Magenta	Dark Red	grey	Blue
		Control Avg	0.011849624	0.026517586	-0.001619864	0.038595374
		Sz Avg	-0.011849624	-0.026517586	0.001619864	-0.038595374
		Sz-Control Dif	-0.023699247	-0.053035172	0.003239728	-0.077190749
		ttest, Paired	0.091867241	0.014753534	0.997221737	2.70796E-05
		ttest, unpaired	0.126166738	0.014038861	0.879312945	1.34302E-05

eTable 9. Homogenate Modules DAVID

Green								
Sublist	Category	Term	RT	Genes	Count	%	P-Value	Benjamini
	UP_KEYWORDS	Calmodulin-binding	RT		11	8.9	2.10E-04	4.40E-02
	GOTERM_MF_DIRECT	calmodulin binding	RT		12	9.8	6.80E-04	1.90E-01
	GOTERM_MF_DIRECT	structural molecule activity	RT		14	11.4	2.40E-03	3.10E-01
	UP_KEYWORDS	Cytoskeleton	RT		34	27.6	3.00E-03	2.70E-01
	UP_KEYWORDS	Microtubule	RT		11	8.9	7.60E-03	4.10E-01
	UP_SEQ_FEATURE	region of interest:Calmodulin-binding	RT		7	5.7	1.20E-02	1.00E+00
	GOTERM_CC_DIRECT	microtubule	RT		12	9.8	1.90E-02	9.90E-01
	GOTERM_BP_DIRECT	cell division	RT		11	8.9	2.20E-02	1.00E+00
	GOTERM_MF_DIRECT	actin binding	RT		11	8.9	2.20E-02	9.00E-01
	GOTERM_CC_DIRECT	plasma membrane	RT		68	55.3	2.40E-02	9.60E-01
	UP_KEYWORDS	Cytoplasm	RT		69	56.1	2.50E-02	7.40E-01
	KEGG_PATHWAY	Synaptic vesicle cycle	RT		13	10.6	2.90E-02	9.90E-01
	UP_KEYWORDS	Phosphoprotein	RT		105	85.4	3.30E-02	7.50E-01
	GOTERM_MF_DIRECT	protein homodimerization activity	RT		12	9.8	4.20E-02	9.60E-01
	UP_KEYWORDS	Lipid-binding	RT		8	6.5	4.20E-02	7.80E-01
	UP_SEQ_FEATURE	mutagenesis site	RT		27	22	4.60E-02	1.00E+00
	UP_SEQ_FEATURE	splice variant	RT		64	52	4.70E-02	1.00E+00
Orange								
Sublist	Category	Term	RT	Genes	Count	%	P-Value	Benjamini
	UP_KEYWORDS	Methylation	RT		24	24.7	7.60E-03	7.50E-01
	UP_KEYWORDS	Protein transport	RT		14	14.4	1.30E-02	7.00E-01
	GOTERM_BP_DIRECT	heart development	RT		5	5.2	1.40E-02	1.00E+00
	GOTERM_BP_DIRECT	vesicle-mediated transport	RT		10	10.3	1.50E-02	1.00E+00
	GOTERM_BP_DIRECT	signal transduction	RT		19	19.6	2.80E-02	1.00E+00
	UP_SEQ_FEATURE	lipid moiety-binding region:S-geranylgeranyl cysteine	RT		7	7.2	4.50E-02	1.00E+00
	UP_KEYWORDS	Prenylation	RT		8	8.2	4.50E-02	9.40E-01
	GOTERM_BP_DIRECT	positive regulation of GTPase activity	RT		13	13.4	4.90E-02	1.00E+00
Turquoise								

Sublist	Category	Term	RT	Genes	Count	%	P-Value	Benjamini
	UP_KEYWORDS	Mitochondrion	RT		34	25.4	7.50E-06	1.70E-03
	UP_KEYWORDS	Transit peptide	RT		22	16.4	5.50E-05	6.10E-03
	UP_SEQ_FEATURE	transit peptide:Mitochondrion	RT		22	16.4	5.50E-05	2.30E-02
	GOTERM_CC_DIRECT	mitochondrial inner membrane	RT		20	14.9	2.40E-04	6.10E-02
	UP_KEYWORDS	Mitochondrion inner membrane	RT		15	11.2	3.00E-04	2.20E-02
	UP_KEYWORDS	Acetylation	RT		82	61.2	5.30E-04	2.90E-02
	GOTERM_CC_DIRECT	mitochondrial matrix	RT		16	11.9	6.50E-04	8.10E-02
	GOTERM_CC_DIRECT	mitochondrion	RT		40	29.9	8.30E-03	5.10E-01
	GOTERM_CC_DIRECT	extracellular exosome	RT		74	55.2	1.40E-02	5.90E-01
	GOTERM_BP_DIRECT	tricarboxylic acid cycle	RT		9	6.7	1.80E-02	1.00E+00
	GOTERM_BP_DIRECT	positive regulation of protein phosphorylation	RT		7	5.2	1.90E-02	1.00E+00
	GOTERM_BP_DIRECT	carbohydrate metabolic process	RT		8	6	3.70E-02	1.00E+00
	GOTERM_CC_DIRECT	nucleus	RT		46	34.3	4.00E-02	8.80E-01
	GOTERM_BP_DIRECT	viral process	RT		11	8.2	4.00E-02	1.00E+00
	GOTERM_BP_DIRECT	sensory perception of pain	RT		7	5.2	4.10E-02	1.00E+00
	GOTERM_CC_DIRECT	caveola	RT		7	5.2	4.10E-02	8.40E-01
	UP_KEYWORDS	Tricarboxylic acid cycle	RT		7	5.2	4.20E-02	8.50E-01
	GOTERM_BP_DIRECT	response to wounding	RT		5	3.7	4.50E-02	1.00E+00
	GOTERM_BP_DIRECT	generation of precursor metabolites and energy	RT		5	3.7	4.50E-02	1.00E+00
	GOTERM_MF_DIRECT	structural constituent of ribosome	RT		6	4.5	4.50E-02	1.00E+00
	UP_SEQ_FEATURE	repeat:Solcar 3	RT		6	4.5	4.50E-02	1.00E+00
	UP_SEQ_FEATURE	repeat:Solcar 1	RT		6	4.5	4.50E-02	1.00E+00
	UP_SEQ_FEATURE	repeat:Solcar 2	RT		6	4.5	4.50E-02	1.00E+00
	UP_KEYWORDS	Electron transport	RT		5	3.7	4.50E-02	8.20E-01

eTable 10. Synaptosome Modules DAVID

Blue								
Sublist	Category	Term	RT	Genes	Count	%	P-Value	Benjamini
	GOTERM_CC_DIRECT	mitochondrial inner membrane	RT		20	31.7	2.30E-10	3.90E-08
	UP_KEYWORDS	Mitochondrion inner membrane	RT		16	25.4	4.10E-10	6.20E-08
	UP_KEYWORDS	Mitochondrion	RT		27	42.9	6.10E-10	4.70E-08
	UP_KEYWORDS	Transmembrane	RT		31	49.2	3.80E-06	1.90E-04
	GOTERM_BP_DIRECT	transport	RT		14	22.2	3.90E-06	2.40E-03
	GOTERM_CC_DIRECT	integral component of membrane	RT		30	47.6	5.30E-06	4.40E-04
	UP_KEYWORDS	Ion channel	RT		11	17.5	7.20E-06	2.80E-04
	KEGG_PATHWAY	Parkinson's disease	RT		12	19	7.40E-06	9.50E-04
	UP_SEQ_FEATURE	transmembrane region	RT		28	44.4	8.60E-06	2.40E-03
	GOTERM_BP_DIRECT	translation	RT		8	12.7	1.30E-05	3.90E-03
	UP_KEYWORDS	Transport	RT		30	47.6	2.40E-05	7.20E-04
	KEGG_PATHWAY	Huntington's disease	RT		14	22.2	3.20E-05	2.00E-03
	UP_KEYWORDS	Ion transport	RT		17	27	4.60E-05	1.20E-03
	INTERPRO	Mitochondrial carrier domain	RT		7	11.1	6.90E-05	1.50E-02
	INTERPRO	Mitochondrial substrate/solute carrier	RT		7	11.1	6.90E-05	1.50E-02
	UP_SEQ_FEATURE	repeat:Solcar 2	RT		7	11.1	7.30E-05	1.00E-02
	UP_SEQ_FEATURE	repeat:Solcar 1	RT		7	11.1	7.30E-05	1.00E-02
	UP_SEQ_FEATURE	repeat:Solcar 3	RT		7	11.1	7.30E-05	1.00E-02
	GOTERM_MF_DIRECT	structural constituent of ribosome	RT		7	11.1	7.70E-05	1.40E-02
	UP_KEYWORDS	Transmembrane helix	RT		28	44.4	8.40E-05	1.80E-03
	GOTERM_CC_DIRECT	mitochondrion	RT		26	41.3	2.90E-04	1.60E-02
	UP_KEYWORDS	Membrane	RT		49	77.8	3.00E-04	5.70E-03
	UP_KEYWORDS	Ligand-gated ion channel	RT		8	12.7	3.30E-04	5.60E-03
	UP_KEYWORDS	Receptor	RT		12	19	4.40E-04	6.80E-03
	UP_KEYWORDS	Disease mutation	RT		30	47.6	8.10E-04	1.10E-02
	GOTERM_CC_DIRECT	mitochondrial outer membrane	RT		8	12.7	1.40E-03	5.50E-02
	KEGG_PATHWAY	Nicotine addiction	RT		8	12.7	1.40E-03	5.70E-02

	UP_KEYWORDS	Mitochondrion outer membrane	RT		7	11.1	1.50E-03	1.90E-02
	INTERPRO	Mitochondrial carrier protein	RT		5	7.9	2.40E-03	2.20E-01
	GOTERM_CC_DIRECT	postsynaptic membrane	RT		12	19	2.90E-03	9.10E-02
	UP_KEYWORDS	Postsynaptic cell membrane	RT		11	17.5	3.00E-03	3.40E-02
	UP_SEQ_FEATURE	sequence variant	RT		50	79.4	3.30E-03	2.60E-01
	KEGG_PATHWAY	Neuroactive ligand-receptor interaction	RT		8	12.7	3.90E-03	1.20E-01
	GOTERM_CC_DIRECT	integral component of plasma membrane	RT		13	20.6	4.60E-03	1.20E-01
	GOTERM_BP_DIRECT	chloride transmembrane transport	RT		5	7.9	6.70E-03	7.50E-01
	KEGG_PATHWAY	Calcium signaling pathway	RT		10	15.9	1.10E-02	2.60E-01
	INTERPRO	Neurotransmitter-gated ion-channel, conserved site	RT		4	6.3	1.30E-02	6.00E-01
	INTERPRO	Neurotransmitter-gated ion-channel ligand-binding	RT		4	6.3	1.30E-02	6.00E-01
	INTERPRO	Gamma-aminobutyric acid A receptor	RT		4	6.3	1.30E-02	6.00E-01
	INTERPRO	Neurotransmitter-gated ion-channel transmembrane domain	RT		4	6.3	1.30E-02	6.00E-01
	INTERPRO	Neurotransmitter-gated ion-channel	RT		4	6.3	1.30E-02	6.00E-01
	UP_KEYWORDS	Transit peptide	RT		11	17.5	1.30E-02	1.30E-01
	UP_SEQ_FEATURE	transit peptide:Mitochondrion	RT		11	17.5	1.30E-02	5.90E-01
	UP_KEYWORDS	Chloride channel	RT		4	6.3	1.30E-02	1.30E-01
	UP_KEYWORDS	Chloride	RT		4	6.3	1.30E-02	1.30E-01
	GOTERM_CC_DIRECT	chloride channel complex	RT		4	6.3	1.30E-02	2.70E-01
	GOTERM_CC_DIRECT	GABA-A receptor complex	RT		4	6.3	1.30E-02	2.70E-01
	UP_KEYWORDS	Flavoprotein	RT		5	7.9	1.30E-02	1.20E-01
	GOTERM_MF_DIRECT	GABA-A receptor activity	RT		4	6.3	1.30E-02	7.10E-01
	GOTERM_MF_DIRECT	extracellular ligand-gated ion channel activity	RT		4	6.3	1.30E-02	7.10E-01
	GOTERM_BP_DIRECT	mitochondrial fission	RT		4	6.3	1.30E-02	8.70E-01
	GOTERM_BP_DIRECT	adenine transport	RT		4	6.3	1.30E-02	8.70E-01
	GOTERM_BP_DIRECT	cellular response to histamine	RT		4	6.3	1.30E-02	8.70E-01
	GOTERM_BP_DIRECT	transmembrane transport	RT		6	9.5	1.80E-02	8.90E-01
	UP_KEYWORDS	Epilepsy	RT		7	11.1	2.60E-02	2.10E-01
	BIOCARTA	Electron Transport Reaction in Mitochondria	RT		4	6.3	2.70E-02	7.70E-01
	KEGG_PATHWAY	HTLV-I infection	RT		6	9.5	2.70E-02	4.50E-01

	GOTERM_BP_DIRECT	signal transduction	RT		14	22.2	2.80E-02	9.50E-01
	KEGG_PATHWAY	Retrograde endocannabinoid signaling	RT		8	12.7	3.30E-02	4.60E-01
	UP_SEQ_FEATURE	signal peptide	RT		12	19	3.80E-02	8.80E-01
	KEGG_PATHWAY	Alzheimer's disease	RT		8	12.7	4.20E-02	5.00E-01
Red								
Sublist	Category	Term	RT	Genes	Count	%	P-Value	Benjamini
	GOTERM_BP_DIRECT	protein phosphorylation	RT		7	24.1	2.00E-03	5.20E-01
	GOTERM_MF_DIRECT	calmodulin-dependent protein kinase activity	RT		4	13.8	3.00E-03	2.90E-01
	UP_SEQ_FEATURE	binding site:ATP	RT		7	24.1	6.20E-03	5.50E-01
	GOTERM_BP_DIRECT	peptidyl-serine phosphorylation	RT		5	17.2	7.00E-03	7.30E-01
	UP_KEYWORDS	Serine/threonine-protein kinase	RT		6	20.7	7.10E-03	5.10E-01
	UP_KEYWORDS	Kinase	RT		8	27.6	1.10E-02	4.30E-01
	GOTERM_BP_DIRECT	protein autophosphorylation	RT		5	17.2	1.30E-02	8.00E-01
	UP_KEYWORDS	Membrane	RT		23	79.3	1.30E-02	3.60E-01
	UP_SEQ_FEATURE	domain:Protein kinase	RT		6	20.7	1.40E-02	5.90E-01
	UP_SEQ_FEATURE	region of interest:Calmodulin-binding	RT		4	13.8	1.40E-02	4.50E-01
	UP_SEQ_FEATURE	nucleotide phosphate-binding region:ATP	RT		8	27.6	1.50E-02	3.90E-01
	GOTERM_CC_DIRECT	plasma membrane	RT		20	69	1.80E-02	8.60E-01
	UP_KEYWORDS	Zinc-finger	RT		4	13.8	2.00E-02	4.00E-01
	GOTERM_MF_DIRECT	protein kinase activity	RT		5	17.2	2.10E-02	7.00E-01
	GOTERM_BP_DIRECT	interferon-gamma-mediated signaling pathway	RT		3	10.3	2.70E-02	9.20E-01
	UP_KEYWORDS	Cell membrane	RT		15	51.7	3.20E-02	4.70E-01
	GOTERM_MF_DIRECT	protein serine/threonine kinase activity	RT		5	17.2	3.20E-02	7.10E-01
	UP_SEQ_FEATURE	propeptide:Removed in mature form	RT		4	13.8	3.60E-02	6.10E-01
	UP_KEYWORDS	GPI-anchor	RT		3	10.3	4.20E-02	5.10E-01
	UP_KEYWORDS	Calmodulin-binding	RT		4	13.8	4.50E-02	4.80E-01
	GOTERM_BP_DIRECT	intracellular signal transduction	RT		5	17.2	4.60E-02	9.70E-01
Magenta								
Sublist	Category	Term	RT	Genes	Count	%	P-Value	Benjamini
	UP_SEQ_FEATURE	topological domain:Cytoplasmic	RT		28	56	1.30E-11	2.70E-09

	UP_SEQ_FEATURE	transmembrane region	RT		30	60	2.80E-10	2.80E-08
	UP_KEYWORDS	Transmembrane helix	RT		30	60	5.70E-09	6.70E-07
	UP_KEYWORDS	Transmembrane	RT		30	60	1.40E-08	8.30E-07
	GOTERM_CC_DIRECT	integral component of membrane	RT		29	58	2.80E-08	4.50E-06
	UP_SEQ_FEATURE	topological domain:Extracellular	RT		20	40	7.30E-08	5.00E-06
	GOTERM_CC_DIRECT	plasma membrane	RT		41	82	1.30E-07	1.10E-05
	UP_SEQ_FEATURE	glycosylation site:N-linked (GlcNAc...)	RT		21	42	2.70E-07	1.40E-05
	UP_KEYWORDS	Glycoprotein	RT		24	48	2.30E-06	9.00E-05
	UP_KEYWORDS	Ion transport	RT		16	32	8.50E-06	2.50E-04
	UP_KEYWORDS	Sodium	RT		8	16	8.80E-06	2.10E-04
	GOTERM_BP_DIRECT	transferrin transport	RT		8	16	2.90E-05	1.30E-02
	UP_KEYWORDS	Palmitate	RT		12	24	4.10E-05	8.10E-04
	UP_KEYWORDS	Sodium transport	RT		7	14	6.20E-05	1.00E-03
	GOTERM_BP_DIRECT	phagosome acidification	RT		7	14	6.60E-05	1.40E-02
	GOTERM_BP_DIRECT	ATP hydrolysis coupled proton transport	RT		8	16	7.10E-05	1.00E-02
	UP_KEYWORDS	Membrane	RT		41	82	1.30E-04	1.90E-03
	UP_KEYWORDS	Neurotransmitter transport	RT		6	12	1.30E-04	1.70E-03
	GOTERM_BP_DIRECT	insulin receptor signaling pathway	RT		7	14	1.80E-04	2.00E-02
	UP_KEYWORDS	Transport	RT		24	48	2.10E-04	2.40E-03
	GOTERM_BP_DIRECT	ion transmembrane transport	RT		11	22	2.90E-04	2.50E-02
	UP_KEYWORDS	Hydrogen ion transport	RT		7	14	3.80E-04	4.10E-03
	GOTERM_CC_DIRECT	lysosomal membrane	RT		10	20	4.80E-04	2.50E-02
	UP_KEYWORDS	Cell adhesion	RT		10	20	7.00E-04	6.80E-03
	GOTERM_BP_DIRECT	glutamate secretion	RT		7	14	8.10E-04	5.80E-02
	UP_SEQ_FEATURE	lipid moiety-binding region:S-palmitoyl cysteine	RT		9	18	8.20E-04	3.30E-02
	GOTERM_CC_DIRECT	apical plasma membrane	RT		9	18	8.30E-04	3.30E-02
	GOTERM_MF_DIRECT	proton-transporting ATPase activity, rotational mechanism	RT		6	12	8.50E-04	1.10E-01
	GOTERM_CC_DIRECT	synaptic vesicle membrane	RT		7	14	1.40E-03	4.40E-02
	UP_KEYWORDS	Cytoplasmic vesicle	RT		10	20	2.00E-03	1.80E-02
	UP_KEYWORDS	Lipoprotein	RT		15	30	2.00E-03	1.70E-02
	UP_KEYWORDS	Symport	RT		6	12	2.00E-03	1.60E-02

	GOTERM_BP_DIRECT	regulation of macroautophagy	RT		7	14	2.50E-03	1.40E-01
	UP_KEYWORDS	Disulfide bond	RT		14	28	3.60E-03	2.60E-02
	GOTERM_BP_DIRECT	cell adhesion	RT		8	16	4.80E-03	2.30E-01
	UP_SEQ_FEATURE	domain:Ig-like C2-type 5	RT		5	10	5.50E-03	1.70E-01
	UP_SEQ_FEATURE	domain:Ig-like C2-type 4	RT		5	10	5.50E-03	1.70E-01
	GOTERM_MF_DIRECT	guanyl nucleotide binding	RT		4	8	5.90E-03	3.40E-01
	UP_KEYWORDS	Transducer	RT		6	12	6.20E-03	4.20E-02
	UP_KEYWORDS	Cell membrane	RT		25	50	6.40E-03	4.10E-02
	UP_SEQ_FEATURE	topological domain:Vesicular	RT		4	8	6.50E-03	1.70E-01
	GOTERM_BP_DIRECT	sodium ion transmembrane transport	RT		4	8	6.70E-03	2.80E-01
	GOTERM_CC_DIRECT	integral component of plasma membrane	RT		11	22	7.10E-03	1.70E-01
	UP_SEQ_FEATURE	domain:Fibronectin type-III 1	RT		5	10	1.00E-02	2.30E-01
	UP_SEQ_FEATURE	domain:Fibronectin type-III 2	RT		5	10	1.00E-02	2.30E-01
	GOTERM_CC_DIRECT	voltage-gated potassium channel complex	RT		5	10	1.00E-02	2.10E-01
	GOTERM_BP_DIRECT	proton transport	RT		5	10	1.00E-02	3.70E-01
	GOTERM_BP_DIRECT	regulation of cardiac conduction	RT		5	10	1.00E-02	3.70E-01
	GOTERM_BP_DIRECT	ion transport	RT		5	10	1.00E-02	3.70E-01
	GOTERM_CC_DIRECT	cell surface	RT		9	18	1.40E-02	2.40E-01
	GOTERM_CC_DIRECT	extracellular vesicle	RT		6	12	1.40E-02	2.20E-01
	GOTERM_BP_DIRECT	cellular sodium ion homeostasis	RT		4	8	1.50E-02	4.60E-01
	UP_SEQ_FEATURE	disulfide bond	RT		10	20	1.80E-02	3.40E-01
	GOTERM_MF_DIRECT	L-glutamate transmembrane transporter activity	RT		4	8	2.50E-02	6.90E-01
	GOTERM_MF_DIRECT	calcium-dependent protein binding	RT		4	8	2.50E-02	6.90E-01
	GOTERM_MF_DIRECT	G-protein beta/gamma-subunit complex binding	RT		4	8	2.50E-02	6.90E-01
	GOTERM_MF_DIRECT	calcium-dependent phospholipid binding	RT		4	8	2.50E-02	6.90E-01
	UP_SEQ_FEATURE	domain:Ig-like C2-type 3	RT		5	10	2.50E-02	4.00E-01
	GOTERM_CC_DIRECT	synaptic vesicle	RT		7	14	2.70E-02	3.50E-01
	UP_KEYWORDS	Potassium transport	RT		4	8	2.70E-02	1.60E-01
	GOTERM_CC_DIRECT	SNARE complex	RT		4	8	2.70E-02	3.30E-01
	GOTERM_BP_DIRECT	L-glutamate transmembrane transport	RT		4	8	2.80E-02	6.50E-01

	GOTERM_BP_DIRECT	cell communication by electrical coupling involved in cardiac conduction	RT		4	8	2.80E-02	6.50E-01
	GOTERM_BP_DIRECT	cardiac muscle contraction	RT		4	8	2.80E-02	6.50E-01
	GOTERM_BP_DIRECT	response to drug	RT		8	16	3.10E-02	6.60E-01
	UP_SEQ_FEATURE	domain:Ig-like C2-type 2	RT		5	10	3.50E-02	4.90E-01
	UP_SEQ_FEATURE	domain:Ig-like C2-type 1	RT		5	10	3.50E-02	4.90E-01
	GOTERM_MF_DIRECT	hydrogen ion transmembrane transporter activity	RT		3	6	3.90E-02	7.50E-01
	GOTERM_MF_DIRECT	SNAP receptor activity	RT		3	6	3.90E-02	7.50E-01
	GOTERM_CC_DIRECT	proton-transporting two-sector ATPase complex	RT		3	6	4.20E-02	4.30E-01
	GOTERM_CC_DIRECT	proton-transporting V-type ATPase, V1 domain	RT		3	6	4.20E-02	4.30E-01
	GOTERM_BP_DIRECT	vesicle docking	RT		3	6	4.20E-02	7.40E-01
	GOTERM_BP_DIRECT	synaptic vesicle fusion to presynaptic active zone membrane	RT		3	6	4.20E-02	7.40E-01
	GOTERM_BP_DIRECT	neural retina development	RT		3	6	4.20E-02	7.40E-01
	GOTERM_BP_DIRECT	L-glutamate import	RT		3	6	4.20E-02	7.40E-01
	UP_KEYWORDS	Potassium	RT		4	8	4.40E-02	2.30E-01
	GOTERM_CC_DIRECT	heterotrimeric G-protein complex	RT		4	8	4.40E-02	4.20E-01
	GOTERM_BP_DIRECT	axon guidance	RT		6	12	4.80E-02	7.60E-01
	UP_KEYWORDS	ADP-ribosylation	RT		5	10	4.80E-02	2.40E-01

eTable 11. Module Eigenprotein Differences

Module	Green	Orange	Turquoise	Magenta	Red	Blue
Control Avg	-0.01576	-0.01281	0.03716	0.01185	0.026518	0.038595
Sz Avg	0.015764	0.012813	-0.03716	-0.01185	-0.02652	-0.0386
Sz-Control	0.031529	0.025626	-0.07432	-0.0237	-0.05304	-0.07719
ttest p: unpaired	0.132946	0.222935	2.66E-04	0.270194	0.012367	2.03E-04
ttest p: paired	0.09034	0.116511	6.99E-05	0.091867	0.014754	2.71E-05

eTable 12. Aligned Sz-Control Homogenate Proteome and Transcriptome Findings

Uniprot ID	Protein Sz-control Limma.adj.P.Val	Protein Sz-control Log2FC	mRNA Sz-control adjusted p-value	mRNA Sz-control Log2FC
SYT2	0.005375149	-0.122835086	0.003243833	-0.176234004
TBA1A	0.008579305	-0.066089099	0.00000565	-0.100329654
FSCN1	0.03615796	-0.074857504	0.00000136	-0.074529382
NFH	0.015175952	-0.254844357	0.035961461	-0.073692949
AT1B1	0.001117375	-0.102448411	0.001399362	-0.043887543
RP3A	0.036369988	-0.113331731	0.031400312	-0.043300882
ODPB	0.008579305	-0.086446051	0.000455047	-0.038358436
PTPRS	0.004676851	-0.096945857	0.001408589	-0.030526223
VATA	0.003160468	-0.065457458	0.02937048	-0.023708676
ACON	0.021093594	-0.123552434	0.015949714	0.023471095
AT1A1	0.021093594	-0.085582437	0.01712302	0.042296928
4F2	0.010835763	-0.096461866	0.001893313	0.056438921
GLNA	0.028906267	-0.227023503	0.044515202	0.064279469
AKA12	0.023585932	-0.128840484	0.00000669	0.06929371
AT1A2	0.018501637	-0.078042524	0.001375596	0.10073743
PDE2A	0.023585932	0.153193306	0.035506703	-0.025258188
GNAO	0.039868642	0.078890578	0.049180271	-0.024825585
IMB1	0.004676851	0.094872565	0.0108612	0.019390345
HS90B	0.037449888	0.092109251	0.000556546	0.046417811
MK03	0.00374988	0.154926195	0.00034939	0.052308313
NCPR	0.012292691	0.187661774	0.000000236	0.061283995
CPNE6	0.043614178	0.121786851	0.000554914	0.061633193
KAD4	2.19367E-05	0.32599461	0.000028	0.080344229
GSTM3	0.001040375	0.490479341	0.0000223	0.11061781
SNP25	0.001040375	-0.299291404	0.064588857	-0.034780934
CISY	0.042406082	-0.075374426	0.06725991	0.020550848
S4A4	0.009693562	-0.149874177	0.074869159	0.070044215
GCYB1	0.008579305	0.095645972	0.079012797	0.020143352
NCDN	0.005134706	0.088245015	0.082921642	0.026331726
SLC25A5	0.004362404	-0.186984464	0.096788613	-0.024736436
1433E	0.003394264	0.05300149	0.149904751	0.017639491
GNAQ	0.00525564	0.112556251	0.167191797	-0.009683372
NCAM2	0.008579305	0.232794554	0.193404313	0.013383947
ROA2	0.008579305	0.116287935	0.228028157	0.016468302
DLG2	0.039868642	0.082335975	0.271835724	-0.011920906
TAU	0.047705471	-0.209745357	0.319163153	-0.019210049
MK01	0.001892006	0.171465707	0.322057181	0.007961644
VATB2	0.043614178	-0.051179088	0.356802016	0.011867597
MPCP	0.001040375	-0.116208078	0.360782096	-0.008039597
DLGP1	0.012292691	-0.221170908	0.395393179	-0.011101819
AT1A3	0.01311673	-0.09881715	0.418677211	0.01374708
DLGP4	0.00706216	-0.146285653	0.449899384	-0.010448311
GBB1	0.008579305	0.081669369	0.459314576	-0.005793046
ADT1	0.000777146	-0.125758836	0.475886376	0.007596307
VDAC1	0.033911339	-0.054094068	0.511525394	-0.006086601
GLSK	0.001040375	-0.129959879	0.530344294	-0.007979929
MARE2	0.040788107	0.056956407	0.549448793	0.007333039
NNTM	0.048466609	-0.119024488	0.55971979	-0.004561984
PRDX2	0.003377026	-0.137604852	0.572373263	-0.006775014
DCE1	0.010835763	-0.220070654	0.577618111	-0.012775165
VATC1	0.044080692	-0.054399193	0.6072197	-0.005263703
ATPA	0.012716492	-0.091514964	0.608985151	-0.005144584
DLGP2	0.008579305	0.117750019	0.798038611	-0.00348257
ADT3	0.000777146	-0.152242784	0.840028928	0.002093473
QCR2	0.021093594	-0.10825949	0.873187258	0.001479466
NDUAA	0.051029326	-0.152230496	0.201120092	-0.012057586
PTPRZ	0.057086138	0.139364062	0.138123225	0.038150761
M2OM	0.058181682	-0.06880053	0.953260667	-0.000543916
NDUV1	0.061829864	-0.112474993	0.097432375	0.017490552
AATM	0.062518465	-0.069493275	0.161316712	0.015299573
FLOT1	0.064029604	0.291321182	0.003763906	0.026945971
NFL	0.067304153	-0.153787298	0.949775379	-0.00107472
EF1A1	0.067340291	0.05075453	0.06961146	0.021948037
AINX	0.067340291	-0.138017057	0.678049594	0.007803288
GEPH	0.067340291	0.082506394	0.877146778	0.001360376
NCAM1	0.069337359	0.075748416	0.173236213	0.01625614
PSD11	0.072479405	0.066133164	0.197818855	-0.012944316
TFR1	0.074794176	0.254402791	0.009275376	-0.06457984
GDS1	0.074794176	0.062764006	0.024640431	-0.024690914

SYT1	0.07941691	-0.072720654	0.32688385	-0.015409457
NTRI	0.079852703	0.065781288	0.121663293	0.016297887
CMC1	0.079852703	-0.100679411	0.303019731	-0.015393808
NEGR1	0.082552776	0.080377627	0.170366055	0.017904469
HSP7C	0.083441489	-0.034620518	0.131298743	-0.024610649
VAT1L	0.100289861	0.180310228	0.00000261	0.099814455
IQEC1	0.100463806	0.137549896	0.000154147	-0.046474009
HOME2	0.100463806	0.116726341	0.15306493	-0.016659276
OPA1	0.100463806	-0.077874685	0.944398996	0.000518948
KAD1	0.107020279	0.083441253	0.996841448	0.0000407
PYGB	0.10832364	0.084089113	0.002054707	0.048280344
DLG3	0.109615706	0.160062878	0.020771409	0.027122258
MTOR	0.112767177	0.161746725	0.128482877	-0.013198898
DYN2	0.11294465	0.040510889	0.975224689	-0.000444032
EGFR	0.116908511	-0.039521017	0.037646952	0.067304167
HS12A	0.119000462	-0.053235153	0.011832613	-0.030139802
STIP1	0.119000462	0.046459845	0.00524313	0.057684345
GNAS	0.120668324	0.08624004	0.42086518	0.009131773
ATPB	0.120668324	-0.070326574	0.735537317	0.004359331
BAIP2	0.120999404	0.106782617	0.759969049	0.004861831
CALB1	0.122257489	0.094531663	2.58E-11	0.180646252
KCC2D	0.123030912	0.096513912	0.764818636	0.003910377
ADHX	0.128100494	0.083082943	0.0002444	0.035754833
MDHM	0.130280028	-0.055836579	0.070188288	0.016887282
NOS1	0.130938884	-0.139773567	0.136372258	-0.03211862
TEBP	0.130938884	0.073480727	0.168845004	0.02386429
VPP1	0.141203206	-0.056898086	0.573678388	-0.005408781
VGLU1	0.143045736	0.099049671	0.806929566	0.004622163
SV2A	0.144568489	-0.047675887	0.092617288	-0.020744731
EAA1	0.145187472	-0.088450373	0.002143012	0.12863352
UBE2N	0.15112778	-0.054053316	0.001511507	-0.024965021
SYNJ1	0.156940559	-0.049738472	0.474190082	-0.010031807
1433G	0.162133637	0.026422898	0.6877768	-0.004930084
PP2BA	0.167020664	0.052411596	0.359491181	0.011201346
BSN	0.167966756	0.059646184	0.007916545	-0.045616205
NCHL1	0.167966756	-0.127667729	0.710203855	-0.00366299
CDK5	0.17435611	-0.083659344	0.190384809	-0.016525533
AP2A1	0.17435611	-0.066589	0.535383099	0.006210552
LDHA	0.180920606	-0.047789666	0.001124339	0.053602959
CH60	0.180920606	-0.052118477	0.054748726	0.042956835
IDH3A	0.180920606	-0.069802349	0.095842452	-0.016485527
PRDX5	0.194050572	-0.056719106	0.919379288	0.001034729
CALR	0.195154936	0.069201882	0.014140988	0.041082388
FLOT2	0.195154936	0.176366884	0.0000156	0.042904223
CAP2	0.198652221	-0.113740579	0.413296182	0.013283923
DCTN1	0.199540098	0.101924125	0.306751958	0.010222894
PPIA	0.200392139	-0.033881447	0.110619999	-0.01676279
VATD	0.200392139	-0.036119811	0.264422255	0.010868813
VAPA	0.200392139	0.073699953	0.269764562	-0.006988996
AATC	0.200392139	-0.051440537	0.744784471	0.00505864
GPM6A	0.20200582	0.06700483	0.04883541	0.022846092
KAP3	0.20200582	0.069163273	0.008485682	0.031388346
GRP75	0.203886631	-0.089681676	0.254211256	0.01066502
KCNA1	0.204457597	-0.106651712	5.89E-09	-0.129599336
SEPT3	0.205524773	0.056137206	0.709634976	0.003854892
EAA2	0.235384449	-0.075563157	0.000482498	0.149062385
MAP1B	0.23752952	-0.051637551	0.257571987	-0.017219217
AOFB	0.241278462	0.123102629	4.05E-15	0.148912654
DGKA	0.24819588	0.055601725	0.049294551	0.032455931
VATH	0.260861134	-0.038791211	0.0000115	0.051685101
AAK1	0.260861134	-0.055218173	0.639774546	-0.005317186
CTNB1	0.263742019	0.081441925	0.036809418	0.017451135
RHOA	0.263742019	0.037799615	0.47160937	-0.006079267
1433T	0.266637375	0.025974507	0.004259104	-0.028474973
C1TC	0.268803172	-0.124368499	0.000340173	0.039203936
ANK2	0.268803172	0.042237705	0.40123065	-0.006798089
ACTN4	0.270392738	-0.076182053	0.014485299	-0.027846417
KPCA	0.270392738	-0.134525234	0.398321341	0.009756423
CYFP1	0.276733766	0.04641647	0.021382177	-0.037555917
HPCL1	0.281250054	0.074080297	2.48E-11	0.130783801
UBA1	0.281250054	0.035766891	0.053233154	0.018528678
SDHB	0.281649712	-0.050790185	0.493182589	0.005451337

GUAD	0.281649712	0.089507511	0.663426126	0.006863088
SYN2	0.299333828	0.076754341	0.949775379	-0.00107472
CNTN1	0.304016799	0.036218532	0.368155176	0.008884303
DCE2	0.304016799	-0.071718314	0.58004408	-0.014328787
SHAN3	0.305680897	0.13944219	0.179620509	-0.023317874
NAC1	0.322387557	-0.070919136	0.593192977	0.00722628
KCRB	0.337449882	0.025886651	0.067079324	0.024602852
G3P	0.337449882	-0.027220115	0.109307888	0.016892759
HSP74	0.337449882	0.039465266	0.369040999	0.01329863
CTNA1	0.35091298	0.085706113	0.000000077	-0.089086066
FARP1	0.359367107	0.086968241	7.61E-08	0.070865746
VDAC3	0.359367107	-0.02875931	0.941795926	0.000734851
KCC2A	0.373592675	0.078449421	0.614260963	0.008237282
MARK2	0.379819813	0.089533492	0.00043287	-0.031413021
UBP5	0.379819813	0.035630631	0.322980658	0.009996206
ALDR	0.383449556	0.055200477	0.38819182	0.008443591
RTN4	0.395658641	-0.028551834	0.0000328	-0.044958536
RAB3A	0.395658641	-0.027258779	0.638357311	0.009098677
COR1A	0.397005585	0.051131821	0.0000166	-0.069234715
GNAI1	0.397005585	0.030970513	0.011478471	-0.037926446
AP3B2	0.397005585	0.055707366	0.533075143	0.006389032
1433Z	0.397005585	0.029094719	0.720634145	-0.003936315
CLAP2	0.410985199	-0.05269356	4.65E-11	-0.066473568
GRM3	0.410985199	-0.066593527	0.007977286	-0.048759343
ENOA	0.410985199	0.0321866	0.000000168	0.064799624
RHOG	0.410985199	0.154233619	0.064472525	-0.059696521
AAKG2	0.410985199	-0.053343744	0.091696004	-0.019750282
SEPT7	0.411393375	-0.033606473	0.000000436	-0.0502948
HS71A	0.411393375	0.027479432	0.002344454	0.209987722
GRIA1	0.411393375	0.18112086	0.059861772	0.023857932
NFM	0.411393375	-0.079593457	0.750281366	0.008513584
CKAP4	0.412317315	-0.04583713	0.165540281	0.014580686
CTRO	0.420728635	0.302479664	0.023546991	0.03529256
CXA1	0.420970927	-0.094912866	0.000225541	0.168622547
PTPRA	0.420970927	0.100600932	0.055440185	0.017497573
ARPC3	0.421246469	-0.038207319	0.001613182	-0.030824673
PIPNB	0.421246469	-0.029598272	0.092835774	0.024394604
PRS4	0.425269359	0.092133061	0.278433008	0.010235499
OTUB1	0.431873279	0.02988215	0.059527959	0.019956324
HS90A	0.4360134	0.047555064	0.009668743	0.059354419
VISL1	0.4360134	-0.029905719	0.795576742	0.004138771
PP2AA	0.436532823	0.038465471	0.886329404	0.001024449
SC6A1	0.437690793	-0.04039988	0.099275362	-0.027339922
TBB5	0.437690793	-0.027110447	0.752566186	0.004992817
CAP1	0.437690793	0.036890796	0.921840476	-0.000796453
2AAA	0.438732122	-0.018614205	0.004091239	0.026920625
XPOT	0.452824163	0.039538665	0.015257576	0.020389157
RAB10	0.452824163	0.078715729	0.070220718	-0.015090625
VDAC2	0.452824163	-0.027053598	0.875280864	-0.00124626
COR1C	0.461356415	0.03968652	0.053061317	0.020650317
AT2B1	0.465821283	0.037985135	0.021469796	-0.027074324
VATE1	0.465821283	0.058036305	0.93592266	-0.000983034
FLNC	0.467677037	0.045725873	0.540304501	0.019558425
MBP	0.46837977	0.109453074	0.110177556	-0.066649482
NMDE1	0.47633997	-0.062608432	0.022841965	-0.036196665
RB39A	0.479783497	-0.031621995	0.256798136	0.034891995
HXK1	0.485901014	-0.022967465	0.010711022	0.028447939
RAB2A	0.494012125	0.018601334	0.098656317	-0.01204287
CNTN2	0.498171079	-0.076468645	0.040556693	-0.06870187
NDUS4	0.498171079	-0.090750327	0.013770907	-0.029033791
ALDOC	0.498171079	-0.025990232	0.024786106	0.043450576
GBRA1	0.498171079	0.108674564	0.352593087	-0.015008699
3HIDH	0.498171079	-0.050288006	0.986603732	-0.000191855
NBEA	0.505071049	0.050653355	0.130076701	-0.014066274
CBR1	0.505071049	0.050308321	0.510205982	-0.014298809
PRS7	0.505388113	-0.025593323	0.734730571	0.003036596
TBB2A	0.506947657	-0.032539478	0.365797216	-0.015372467
CACB3	0.50870486	-0.072829499	0.018549304	-0.030395422
ZNT1	0.50870486	-0.080805122	0.018398599	0.040924646
ALDH2	0.50870486	-0.057619764	0.0000921	0.07064921
GSH1	0.50870486	0.0589767	0.499033148	0.009145906
GDAP1	0.508813197	-0.063846975	0.108694397	0.015842114

GRIA3	0.508813197	0.08620625	0.91573703	-0.001271639
NTRK2	0.520597501	-0.03663587	0.0000015	0.118846108
GBRB1	0.528578127	0.035079255	0.296593535	0.021591569
VAPB	0.535137475	0.063941407	0.454454714	-0.008248337
PP1A	0.539319645	-0.015033322	0.00000708	-0.041384002
SEPT2	0.539319645	-0.034548826	0.544582166	0.009735875
NCAN	0.542362209	0.122986478	0.594532127	-0.013576749
SNAB	0.550314191	-0.040170477	0.059071965	0.029697129
PSA1	0.551847278	-0.051787338	0.440164589	-0.006538465
ANK1	0.552987683	0.026498566	0.0000308	-0.087471055
ATPO	0.552987683	-0.015660882	0.019927556	-0.025915591
RBGPR	0.552987683	0.065009258	0.095791269	-0.012497666
IF4H	0.552987683	0.062342739	0.109476654	0.013523425
MDHC	0.552987683	-0.017126846	0.293006314	-0.014955028
SYT7	0.553474356	0.053824749	0.140977689	-0.020290437
ARP3	0.569012832	0.02698255	0.064112083	-0.014717572
MAP1A	0.572852884	-0.029384581	0.011613226	-0.033132503
SYN1	0.572852884	0.031359957	0.005637315	0.050779583
2A5D	0.572852884	0.03149106	0.143888414	0.012472616
NMDE2	0.572852884	0.052781032	0.304524258	0.01668108
RAN	0.572852884	0.017969668	0.558962027	0.004790315
AAKG1	0.588337489	-0.020234496	0.491739037	-0.007330266
DIRA2	0.592197727	0.033095451	0.00000831	-0.08035041
CALM2	0.592197727	-0.024382048	0.000381146	-0.035434927
AK1A1	0.592197727	-0.065139536	0.009584717	-0.029382116
PRS6A	0.592197727	0.081487801	0.031434692	-0.021244499
PSMD2	0.59426314	-0.052386367	0.556843945	-0.005103845
RAC1	0.596659856	0.015940575	0.619318035	0.007100492
ENOG	0.606901003	-0.015338539	0.02577952	0.034048502
SEPT4	0.606901003	-0.021558614	0.067442553	-0.051333823
NRXN1	0.625977105	-0.035609644	0.017605625	0.022406372
MARK1	0.628349397	0.034269237	0.024643179	-0.020288759
FAK2	0.628349397	-0.049031403	0.00000275	0.100255389
IP3KA	0.628349397	0.068166798	0.132403379	0.033076248
SH3G2	0.63412559	0.020794919	0.255593674	0.019710848
DMXL2	0.63921445	-0.038296616	0.000558014	-0.037087711
HPCA	0.63921445	-0.032118806	0.183535007	0.020284613
2ABA	0.63921445	0.04292845	0.840325633	0.001963726
CAD10	0.641481405	0.030159827	0.070778392	0.022920883
CSK1	0.64640192	0.041503044	0.000614658	-0.048596234
ANXA3	0.64640192	-0.065166054	0.015027668	0.083013657
BDH	0.648389754	-0.037500605	0.261041809	-0.014578572
RTN1	0.648389754	0.020498299	0.313333683	0.013295244
PAK1	0.648389754	-0.079190867	0.346879244	0.014915479
KALRN	0.648389754	-0.034219125	0.468527322	0.007809367
SNA	0.648389754	-0.019174148	0.490204237	-0.008374815
RTN3	0.648389754	0.020498299	0.948554175	-0.000750787
CLH1	0.654877764	-0.009859603	0.053610916	-0.017355826
VPS35	0.654877764	0.032455398	0.381502211	-0.007450822
CPT1A	0.655703302	-0.034923607	0.800410031	-0.005414845
COPG1	0.661325385	-0.02130548	0.141526291	0.017605684
CAPS1	0.661488443	0.047214583	0.960032331	-0.000655367
G6PI	0.661890264	0.026755874	0.0000946	0.03865883
RAB1A	0.661890264	-0.016492503	0.712206869	0.002778769
VIME	0.664801551	0.069222805	0.0000803	0.13061714
RABE1	0.685256616	0.034016932	0.599292946	-0.003864489
GLPK	0.686768397	0.029410293	0.00363647	0.038565011
PP1B	0.686768397	-0.020124539	0.383670776	0.006660457
CAND1	0.690368388	0.019930324	0.002259409	-0.019515187
PAK3	0.690368388	0.032235353	0.017444485	0.027300899
PRS8	0.690368388	0.031901402	0.014715739	0.028695611
SAR1B	0.690368388	0.030696624	0.253155905	-0.01074845
CNTP1	0.690368388	-0.030539031	0.321912122	-0.01397454
ARPC2	0.690368388	-0.020750209	0.44581866	-0.006320447
GRIA2	0.690368388	-0.039549422	0.83979693	0.002205666
KPYM	0.702299796	-0.015878972	0.007803155	0.030352555
CN37	0.705083275	0.045437022	0.001495152	-0.107770787
ABR	0.705083275	-0.040579566	0.544057791	-0.005083873
DLG4	0.707278269	0.030230655	0.489580939	0.007129964
UCHL1	0.707278269	-0.023992622	0.637653385	0.006365621
KPCE	0.707278269	0.024540267	0.700094526	-0.004745747
AP180	0.707278269	-0.015146553	0.809436218	0.002915278

C2C2L	0.710934529	0.016801452	0.064890824	-0.017468164
SRCN1	0.720826843	0.025237857	2.15E-08	-0.084709907
ADDB	0.720826843	0.0189129	0.017613277	0.028568402
SDHA	0.72409495	-0.019252308	0.001621161	0.041339404
E41L1	0.728646502	-0.032290273	0.060552672	-0.022285176
GNA13	0.732153951	0.033731044	0.011520997	0.048697304
STX1B	0.732153951	-0.015204754	0.336683862	-0.016085349
RHG01	0.732153951	0.026640209	0.920808661	-0.001355826
NRXN3	0.733931379	-0.032654008	0.000667264	-0.043625501
ESYT2	0.733931379	-0.066780916	0.010511176	-0.026717881
NEB1	0.733931379	0.038941132	0.80683007	0.002337819
DCTN2	0.735714559	-0.022092376	0.168739751	-0.012616083
PACN1	0.73582113	0.023062243	0.634106555	-0.007019942
ACOC	0.738949114	0.042747596	0.00000277	0.069072692
DPYL1	0.738949114	-0.010050545	0.239951704	0.013625331
AP2A2	0.740602737	0.028595116	0.029247689	0.021206476
RAB14	0.740998311	0.014179066	0.247122679	-0.009243142
VINC	0.743631835	-0.075736861	0.003372249	0.046725954
COF1	0.755313494	-0.012239446	0.037653009	-0.019279972
FAS	0.755313494	-0.023403894	0.059570646	-0.025797127
ATLA1	0.755501736	-0.025812963	0.492584369	-0.008509805
AL3A1	0.75699048	-0.018318984	0.701156953	-0.022026578
RAP1A	0.75699048	0.02194147	0.867936248	0.001801755
RHG35	0.757515178	0.040301272	0.202599222	-0.0109465
RUFY3	0.757515178	-0.017567226	0.457928328	-0.005978235
SNPH	0.757515178	-0.032811174	0.55999266	0.007563833
STXB1	0.757515178	0.01331773	0.971703899	-0.000573157
DYHC1	0.762215544	-0.013166245	0.886845755	0.00168659
MTAP2	0.763016685	-0.017780203	0.002714532	-0.036741004
IPO5	0.763016685	-0.024718143	0.048652434	0.015531215
KPCG	0.763016685	-0.079333132	0.002563105	0.065629087
EFHD2	0.770259308	-0.017971768	0.003946841	-0.050128195
S12A5	0.780261111	-0.017775412	0.888415252	-0.001930532
OGDHL	0.787842708	-0.031912604	0.01539471	0.033802658
CO2	0.787842708	0.01657251	0.128668281	0.056658183
ADDA	0.790345782	-0.027659281	0.015235109	0.017493115
NLGN2	0.790345782	-0.029582878	0.025137024	0.026201348
SUCB1	0.790345782	-0.011282411	0.131076722	-0.015330214
GNAZ	0.790345782	0.018870305	0.167977725	-0.014676209
COPA	0.790345782	0.030925403	0.506746129	0.006544924
GRP78	0.792329305	-0.015236436	0.020607904	0.059022116
PYC	0.79555935	-0.026808959	0.000302327	0.05002694
ARC1A	0.79555935	-0.011763317	0.689783276	-0.003031741
SEPT9	0.795976634	-0.023004855	0.002884934	0.03547255
DYN1	0.796519112	0.008942373	0.014331743	0.036834337
VP26B	0.805008188	0.021052039	0.102017265	-0.01116826
CPNS1	0.816484208	-0.01917982	0.173815165	0.016667484
CAPZB	0.828819751	0.01174396	0.068046835	-0.014199525
SYGP1	0.828819751	0.025057269	0.574340129	-0.007040209
RGS7	0.840558961	-0.013902205	0.138344884	0.019549226
DCLK1	0.852248185	-0.015026962	0.00757617	-0.039501759
RALA	0.858315411	-0.007644537	0.01177336	-0.025959686
GRM5	0.858315411	0.009433848	0.024052531	0.043179193
L1CAM	0.864348287	0.009250144	0.025021401	0.03497399
ITPR1	0.872571654	0.0183427	0.925291596	0.001596736
MYPR	0.877561547	0.022963136	0.000590676	-0.15752482
DPYL2	0.877561547	-0.006416631	0.007761829	0.028397758
ARP2	0.877561547	-0.009297817	0.083144312	0.021763832
CUL3	0.877561547	0.011737994	0.211945471	-0.008534859
PHB2	0.877561547	-0.011942359	0.305806588	-0.009476486
ACSL6	0.877739551	-0.017280078	0.065384528	-0.02892421
GRM2	0.88541972	0.01897542	0.00225209	-0.067125626
HOME1	0.8936002	-0.014272824	0.000000386	-0.091400467
SERA	0.8936002	-0.014271861	0.187034263	0.031183331
DAAM2	0.895761102	0.010847644	0.000162127	-0.100593192
CACB4	0.895761102	0.008438663	0.734959759	-0.0042915
ACLY	0.895761102	-0.011776493	0.973937776	-0.000386153
GRM1	0.899156045	0.030663688	0.006232351	0.042831387
PSD12	0.899156045	-0.006815517	0.116590942	0.01777995
NFASC	0.899156045	0.007196091	0.186722795	-0.020858553
KAP2	0.899156045	-0.010763117	0.300509536	0.008868471
ACTZ	0.899156045	0.005741586	0.494797104	-0.005568282

VGLU2	0.899156045	-0.020816436	0.711794048	0.010987634
PSMD7	0.911191493	-0.009196458	0.807601894	-0.002388239
ODO1	0.911585965	-0.011082546	0.065676474	0.01898528
SEPT5	0.911585965	0.012260488	0.150602616	0.015822955
GHC1	0.911585965	-0.009732951	0.36639943	-0.012339369
AP1B1	0.911585965	-0.00338481	0.5333042	0.005540087
KCC2B	0.918169312	-0.009308186	0.008140938	-0.029983166
SND1	0.918169312	0.010673782	9.65E-08	0.04900605
SRC	0.922300203	-0.007208343	0.024975616	0.024557313
SEPT8	0.929079265	0.007324561	0.000475983	-0.037451268
DHE3	0.936768187	-0.00642061	0.003463388	0.055377577
SCOT1	0.948123677	-0.003915734	0.00017216	0.038489359
ACTG1	0.948123677	-0.005686333	0.212316964	0.01618206
GRIA4	0.949037905	-0.009051369	0.378736488	-0.01103167
AP2B1	0.956743976	-0.002674666	0.748523134	0.003332736
CO3	0.957083446	-0.008201901	0.004467864	-0.174020018
USO1	0.963536369	0.00787485	0.003433622	-0.021019885
SHLB2	0.963536369	0.003932022	0.086240503	-0.019702493
HECTD4	0.963536369	-0.002863254	0.293266744	-0.010224871
GBRG2	0.964258279	0.006291371	0.492885207	0.011596635
GPDM	0.965890676	0.003071384	0.002601374	0.040557411
RHOB	0.965890676	0.002143555	0.31285588	0.01963059
NMDZ1	0.96953599	-0.00650398	0.007924241	0.039259486
CDC42	0.978817013	0.001417068	1.69E-12	-0.070432281
GSK3B	0.978817013	-0.008641997	0.012108686	-0.022494587
ARF1	0.978817013	0.000848363	0.000723674	0.031363192
ALDOA	0.978817013	0.001234385	0.005027722	0.033538096
EPN1	0.978817013	0.001618177	0.000585314	0.038435609
GBRB3	0.978817013	0.004432725	0.001141696	0.038996205
AP2M1	0.978817013	-0.001141286	0.429465073	-0.008194927
ERC2	0.987192741	0.003890575	0.006892335	-0.037091404
SEP11	0.987192741	-0.003383653	0.007725357	-0.0229415
CNDP2	0.987192741	-0.002326185	0.166538705	0.019538328
CKAP5	0.990114581	0.001232841	0.161620091	0.011359435
SPTB1	0.990114581	0.000814863	0.179343808	0.017231671
PSMD1	0.990114581	0.000995478	0.184171641	-0.012529068
NSF	0.990114581	0.0007134	0.52235599	0.009705549
ANK3	0.990831764	-0.001102983	0.000892405	-0.043513813
FARP2	0.990831764	0.001024913	0.014485759	-0.028414065
STX1A	0.990831764	-0.000840894	0.058420254	-0.030477403
AIP	0.990831764	0.00065741	0.192255801	0.015957856
AK1C1	0.990831764	0.001535501	0.640618108	-0.011454821
GDIA	0.997658933	5.34725E-05	0.070869515	0.019463879

Reports the aligned adjusted p-values and Sz-control fold-changes from the homogenate proteome experiment in the present study and adjusted p-values and Sz-control fold-changes from a meta-analysis of transcriptome studies in Sz tissue (Gandel et al. 2018).

eTable 13. Aligned Sz-Control Syntaptosome Proteome and Transcriptome Findings

Uniprot ID	Protein Sz-control Limma.adj.P.Val	Protein Sz-control Log2FC	mRNA Sz-control adjusted p-value	mRNA Sz-control Log2FC
SYT2	0.01257323	-0.111143137	0.003243833	-0.176234004
CO3	0.010545166	-0.11797503	0.004467864	-0.174020018
HOME1	0.01257323	-0.209758548	0.000000386	-0.091400467
SRCN1	0.002679008	-0.250625565	2.15E-08	-0.084709907
GRM3	0.003901652	-0.185064985	0.007977286	-0.048759343
AT1B1	0.002596188	-0.164153082	0.001399362	-0.043887543
NRXN3	0.018346867	-0.127714287	0.000667264	-0.043625501
PTPRS	0.01257323	-0.11091605	0.001408589	-0.030526223
KCC2B	0.041637057	-0.21309464	0.008140938	-0.029983166
AT2B1	0.003410692	-0.116028014	0.021469796	-0.027074324
ATPO	0.003901652	-0.159747956	0.019927556	-0.025915591
HXK1	0.003901652	-0.138862333	0.010711022	0.028447939
OGDHL	6.05725E-05	-0.252121219	0.01539471	0.033802658
GLPK	0.034979222	-0.144869816	0.00363647	0.038565011
NMDZ1	0.001703434	-0.221589326	0.007924241	0.039259486
VATH	0.004343146	-0.100111623	0.0000115	0.051685101
CPNE6	0.01257323	-0.118434019	0.000554914	0.061633193
KPCG	0.002596188	-0.275086029	0.002563105	0.065629087
TFR1	0.023340381	0.092217809	0.009275376	-0.06457984
PRS6A	0.009892557	0.106190134	0.031434692	-0.021244499
FLOT1	0.024272693	0.141231676	0.003763906	0.026945971
ANK1	1.36973E-05	0.209710068	0.0000308	-0.087471055
C2C2L	0.002596188	-0.164721158	0.064890824	-0.017468164
SEPT4	0.005145143	-0.084945879	0.067442553	-0.051333823

SV2A	0.034979222	-0.085429892	0.092617288	-0.020744731
NDUV1	0.004970492	-0.140532074	0.097432375	0.017490552
NBEA	0.01520273	-0.179801643	0.130076701	-0.014066274
IP3KA	0.003976239	-0.242825779	0.132403379	0.033076248
SEPT5	0.018382104	-0.075449467	0.150602616	0.015822955
CKAP4	0.003901652	-0.166538032	0.165540281	0.014580686
SPTB1	0.002679008	0.112730814	0.179343808	0.017231671
NDUAA	0.006271872	-0.131547475	0.201120092	-0.012057586
BDH	0.002158025	-0.240693443	0.261041809	-0.014578572
GBRB1	0.003901652	-0.166947077	0.296593535	0.021591569
CMC1	0.002679008	-0.146000212	0.303019731	-0.015393808
RTN1	0.034979222	0.081160582	0.313333683	0.013295244
UBP5	0.01520273	-0.164917217	0.322980658	0.009996206
GBRA1	0.002158025	-0.195814527	0.352593087	-0.015008699
MPCP	0.008464189	-0.128374312	0.360782096	-0.008039597
GHC1	0.00153637	-0.179106736	0.36639943	-0.012339369
ANK2	3.41183E-05	0.210017612	0.40123065	-0.006798089
AT1A3	0.000159759	-0.157925552	0.418677211	0.01374708
AP2M1	0.002158025	0.08938078	0.429465073	-0.008194927
ADT1	0.01520273	-0.123858507	0.475886376	0.007596307
DLG4	0.004438499	-0.245642733	0.489580939	0.007129964
GBRG2	0.005012197	-0.160262592	0.492885207	0.011596635
SDHB	0.002158025	-0.159538098	0.493182589	0.005451337
VDAC1	0.003281239	-0.15857805	0.511525394	-0.006086601
NSF	0.042009249	-0.107510152	0.52235599	0.009705549
PRDX2	9.12721E-05	-0.218298341	0.572373263	-0.006775014
NAC1	0.004970492	-0.158443934	0.593192977	0.00722628
ATPA	0.001245678	-0.184807792	0.608985151	-0.005144584
AAK1	0.010545166	-0.087259324	0.639774546	-0.005317186
KPCE	0.042943974	-0.153950635	0.700094526	-0.004745747
VGLU2	0.049650062	-0.194571547	0.711794048	0.010987634
CACB4	3.38394E-06	-0.195936828	0.734959759	-0.0042915
GRIA2	0.000432734	-0.270257868	0.83979693	0.002205666
ADT3	0.00011907	-0.218044278	0.840028928	0.002093473
QCR2	0.003976239	-0.192121794	0.873187258	0.001479466
S12A5	7.0257E-07	-0.501697883	0.888415252	-0.001930532
GRIA3	0.028494305	-0.181045072	0.91573703	-0.001271639
RHG01	9.08511E-08	0.38570088	0.920808661	-0.001355826
OPA1	0.011812219	-0.127444615	0.944398996	0.000518948
M2OM	0.018382104	-0.108385431	0.953260667	-0.000543916
E41L1	0.050470599	0.144175836	0.060552672	-0.022285176
CDK5	0.050957234	-0.141744752	0.190384809	-0.016525533
VDAC2	0.052453178	-0.083808696	0.875280864	-0.00124626
VATA	0.056051572	-0.0753321	0.02937048	-0.023708676
PHB2	0.057266736	-0.085432742	0.305806588	-0.009476486
EAA1	0.057962959	-0.081233656	0.002143012	0.12863352
VATD	0.057962959	-0.078951683	0.264422255	0.010868813
KCC2D	0.057962959	-0.210729521	0.764818636	0.003910377
VATB2	0.059970903	-0.085536454	0.356802016	0.011867597
ATLA1	0.060875269	0.06837712	0.492584369	-0.008509805
SYT1	0.061051903	-0.079248815	0.32688385	-0.015409457
CAP2	0.071343279	0.107200665	0.413296182	0.013283923
S4A4	0.073608636	-0.078116525	0.074869159	0.070044215
CNTN1	0.07400748	0.063501603	0.368155176	0.008884303
FLOT2	0.082467567	0.097067027	0.0000156	0.042904223
SC6A1	0.084970536	-0.07677854	0.099275362	-0.027339922
SLC25A5	0.090258084	-0.072452729	0.096788613	-0.024736436
DIRA2	0.091623444	-0.073568035	0.00000831	-0.08035041
KCC2A	0.091623444	-0.199743381	0.614260963	0.008237282
ITPR1	0.095335183	-0.293542755	0.925291596	0.001596736
RGS7	0.099233496	-0.071816821	0.138344884	0.019549226
4F2	0.112433573	-0.064952678	0.001893313	0.056438921
DYN2	0.112822407	0.097274151	0.975224689	-0.000444032
CACB3	0.112925952	-0.076804027	0.018549304	-0.030395422
NOS1	0.112925952	0.104756423	0.136372258	-0.03211862
SAR1B	0.112925952	0.065268806	0.253155905	-0.01074845
DYN1	0.113964091	0.101892267	0.014331743	0.036834337
NRXN1	0.113964091	-0.089315479	0.017605625	0.022406372
GDAP1	0.133743415	-0.051178677	0.108694397	0.015842114
EAA2	0.144166966	-0.057980652	0.000482498	0.149062385
GPDM	0.14459578	-0.06458769	0.002601374	0.040557411
GRM2	0.164634986	-0.055504387	0.00225209	-0.067125626
GRIA1	0.186840969	-0.122227018	0.059861772	0.023857932
SNP25	0.19265954	-0.049598461	0.064588857	-0.034780934
NNTM	0.20454214	-0.060640784	0.55971979	-0.004561984

CNTP1	0.222332012	0.068439692	0.321912122	-0.01397454
NEGR1	0.228702835	0.056127111	0.170366055	0.017904469
RUFY3	0.228702835	-0.058988773	0.457928328	-0.005978235
AAKG2	0.27393567	-0.062505403	0.091696004	-0.019750282
SEPT3	0.281875698	-0.038393335	0.709634976	0.003854892
NCPR	0.300220027	-0.067752731	0.000000236	0.061283995
KAD4	0.33282738	0.063528967	0.000028	0.080344229
EGFR	0.352508231	-0.045780139	0.037646952	0.067304167
VDAC3	0.361892221	-0.03648722	0.941795926	0.000734851
CKAP5	0.368572472	-0.043220601	0.161620091	0.011359435
VAPB	0.370013123	-0.053906222	0.454454714	-0.008248337
DMXL2	0.371944451	-0.066683491	0.000558014	-0.037087711
CLAP2	0.381605033	0.059996135	4.65E-11	-0.066473568
L1CAM	0.381605033	-0.075124602	0.025021401	0.03497399
NCAM2	0.381605033	-0.061154173	0.193404313	0.013383947
VGLU1	0.403174945	-0.030808464	0.806929566	0.004622163
AOFB	0.418027293	0.048514898	4.05E-15	0.148912654
SRC	0.418027293	0.027261985	0.024975616	0.024557313
XPOT	0.441975458	0.05701766	0.015257576	0.020389157
ABR	0.455594442	-0.056181029	0.544057791	-0.005083873
ANK3	0.464985125	0.05942761	0.000892405	-0.043513813
RP3A	0.464985125	-0.04620774	0.031400312	-0.043300882
NCAM1	0.464985125	-0.040058468	0.173236213	0.01625614
GNAO	0.467383962	0.039404812	0.049180271	-0.024825585
VPP1	0.468593618	-0.023738156	0.573678388	-0.005408781
NCAN	0.520088411	0.056297124	0.594532127	-0.013576749
NLGN2	0.538896167	-0.052876346	0.025137024	0.026201348
FARP1	0.564639738	-0.028239628	7.61E-08	0.070865746
AT1A1	0.600409661	-0.021027343	0.01712302	0.042296928
BAIP2	0.604753931	-0.030431516	0.759969049	0.004861831
KCNA1	0.61922452	-0.026502402	5.89E-09	-0.129599336
GNAZ	0.6344914	-0.025453458	0.167977725	-0.014676209
CNTN2	0.63655502	-0.026719546	0.040556693	-0.06870187
GBRB3	0.762547631	0.023819598	0.001141696	0.038996205
ANXA3	0.762547631	-0.019726012	0.015027668	0.083013657
RHOB	0.778101065	-0.01499516	0.31285588	0.01963059
SYT7	0.78649511	-0.018239235	0.140977689	-0.020290437
AKA12	0.788346743	-0.011369236	0.00000669	0.06929371
CTNB1	0.812451363	0.013532632	0.036809418	0.017451135
STX1A	0.812451363	-0.010910181	0.058420254	-0.030477403
NFASC	0.812451363	0.017908453	0.186722795	-0.020858553
VAPA	0.812451363	-0.013128629	0.269764562	-0.006988996
STX1B	0.812451363	-0.009589617	0.336683862	-0.016085349
MARE2	0.812451363	-0.008754143	0.549448793	0.007333039
GNAQ	0.863975183	-0.006609444	0.167191797	-0.009683372
VATC1	0.874207501	-0.008349436	0.6072197	-0.005263703
GNAI1	0.919349953	0.00692514	0.011478471	-0.037926446
CXA1	0.919840997	0.015177743	0.000225541	0.168622547
VATE1	0.929514663	-0.004137909	0.93592266	-0.000983034
GNAS	0.937222308	0.005975025	0.42086518	0.009131773
NTRI	0.989323102	-0.001482651	0.121663293	0.016297887
SYN2	0.989323102	-0.003067691	0.949775379	-0.00107472
GPM6A	0.991524502	0.001105596	0.04883541	0.022846092
EF1A1	0.991524502	-0.003161141	0.06961146	0.021948037
GBB1	0.991524502	0.000838472	0.459314576	-0.005793046

Reports the aligned adjusted p-values and Sz-control fold-changes from the synaptosome proteome experiment in the present study and adjusted p-values and Sz-control fold-changes from a meta-analysis of transcriptome studies in Sz tissue (Gandel et al. 2018).

eTable 14. List of Protein SRMs from Assay Stages

	Homogenate	Synaptosome
Assayed	478	478
Passed Quality Controls	402	348 (155)
Sz vs Control unadjusted Limma p < 0.05	110	83
Sz vs Control adjusted Limma p < 0.05	55	64

Reports the number of proteins for which SRMs were **1.** Assayed in the MS run; **2.** Passed quality control; **3.** Were altered between Sz and control (unadjusted Limma p < 0.05); and **4.** Were altered between Sz and control (adjusted Limma p < 0.05). * denotes the proteins that were enriched in synaptosomes (over homogenates) in controls.

eMethods. Participants and Materials

Human Subjects and Tissue Collection: Brain specimens from all subjects were obtained during autopsies conducted at the Allegheny County Office of the Medical Examiner after receiving consent from the next-of-kin. An independent panel of experienced clinicians made consensus Diagnostic and Statistical Manual of Mental Disorders Fourth Edition (DSM-IV) diagnoses using a previously described method(1). 48 pairs of Sz and control subjects (matched by age, sex, race, and PMI, **Table 1 & eTable 1**) were studied. Control subjects underwent identical assessments and were determined to be free of lifetime psychiatric illness. Procedures were approved by the University of Pittsburgh Institutional Review Board and Committee for Oversight of Research Involving the Dead. Grey matter was harvested from the auditory cortex as previously described(2, 3): Tissue slabs containing the superior temporal gyrus with Heschl's Gyrus (HG) located medial to the planum temporal were identified, and the superior temporal gyrus (STG) removed as single block. The samples were then distributed in a block design for preparation and analysis to evenly distribute SCZ and control samples and blind the experimenters during sample preparation, analysis, and peak integration. Grey matter was collected from HG by taking 40 μm sections and frozen at $-80\text{ }^{\circ}\text{C}$ (2).

Antipsychotic Drug Treated Monkey Tissue: The tissue utilized here was obtained from previously completed experiments that have been extensively described previously(4). Briefly: 18 male monkeys, $n = 6$ per group, were administered therapeutically relevant doses of haloperidol, olanzapine, or vehicle. Tissue slabs containing the superior temporal gyrus were removed in a single block and 50 mg of grey matter was harvested as described above.

Sample Preparation: Total Homogenate and Synaptosome preparations were obtained using a variation on the sucrose density gradient centrifugation method we have previously validated for use in human postmortem brain tissue(5, 6). Briefly: 50 mg of human A1 grey matter, 50 mg monkey STG grey matter, or one mouse brain hemisphere were homogenized in 0.32 M Sucrose, 0.1 mM CaCl_2 , 1mM MgCl_2 with 1 x Protease and Phosphate Inhibitors (Sigma) (10 μl /mg brain tissue) on ice in a 1 ml glass Dounce homogenizer with a Teflon pestle. 40 μl of this crude homogenate is mixed with 10 μl 10% SDS, vortexed, sonicated, and cleared by centrifugation to prepare the "Total Homogenate" (Hom). The remainder of crude homogenate is clarified at $800 \times g$ for 10 min at 4C and 750 μl of the supernatant is adjusted to 1.25 M sucrose in a final volume of 1875 μl . The 1.25 M sucrose-homogenate is laid between 5 ml of 1.5 M sucrose (bottom) and 1.5 ml of 1 M sucrose (top) and spun at 24,000 RPM for 3 hrs (4C) in a TH641 swing arm rotor. The band at the 1.25-1.5 M interface is collected into 10 ml 0.05 mM CaCl_2 and spun at 18,000 RPM for 20 min in a TH641 swing arm rotor. The pellet is taken up in 40 μl 100 mM Tris, pH 7.4, 2% SDS (1X Protease and Phosphate Inhibitors, Sigma), vortexed, sonicated, and cleared by centrifugation to prepare the "Synaptosomes" (Syn). Total protein concentration in the Hom and Syn preparations were assessed by micro BCA (Pierce).

[$^{13}\text{C}_6$]brain ISTD: The [$^{13}\text{C}_6$]lysine-labeled brain proteome internal standard ([$^{13}\text{C}_6$]brain ISTD) is prepared by homogenizing cerebral cortex tissue from a Stable Isotope Labeling in Mammals (SILAM) mouse (Cambridge Isotopes). These animals are raised on a diet in which the only source of Lysine is $^{13}\text{C}_6$ labeled, resulting in near complete (99%) labeling of the animal proteome in three generations. Labeling efficiency of each [$^{13}\text{C}_6$]brain ISTD preparation is confirmed prior to use. To account for species differences, SRMs are designed only for peptides that have 100% homology between humans and mice(5) taking advantage of the high level of synaptic protein sequence homology between these species (7).

Peptide SRM Development and Validation: Method development began by building upon our previously described SRM libraries(5, 8-10) with the selection of additional proteins of interest included in published multidimensional MS/MS analyses of synaptic enrichments from mouse and human brain tissue (5, 6, 11) as well as the NIST Tandem Mass Spectral Library. Targets for inclusion in the LC-SRM/MS assay were selected with a bias toward well annotated synaptic proteins, such as glutamate receptors, kinases, phosphatases, vesicular fusion, amino acid metabolism, protein trafficking and scaffolding as well as proteins implicated by recent unbiased genetic analyses of Sz(12). Peptides for proteins of interest were then filtered based on the following criteria: 1) presence of lysine, 2) nonredundant to a selected protein or protein group (determined by

BLAST search) and 3) 100% homology across mouse and human sequences (determined by BLAST search). Ultimately, 2700 tryptic peptides from 152 proteins were selected for validation for addition to the assay. Acceptable peptide sequences, along with MS2 spectra, were imported into Skyline(13). Initially, five mass transitions were selected for each target peptide and its “heavy” counter-part. Validation experiments were performed in 1:1 ($\mu\text{g}/\mu\text{g}$) mixtures of a human synaptosome preparation from a low PMI control and the [$^{13}\text{C}_6$]brain ISTD. To ensure that the desired peptide was assayed, rigorous selection criteria were employed for the inclusion of peptide SRM transitions. Candidate “light”/“heavy” peptide SRMs were evaluated manually in Skyline for A) retention time, B) similar y-ion ratios (within 25%) to each other and database MS2 spectra, and D) a signal-to-noise ratio greater than 3. Peptide SRM pairs for which more than one identical peak was observed were omitted. Ultimately, SRMs for 825 peptides unique to 478 proteins (combined from this round of method development and our published studies) were validated at time of assay.

Reproducibility of Peptide Quantification and Calculation of Protein Level Measures: To assess variabilities from sample preparation and MS analysis, coefficients of variation (CVs) were calculated for each data cohort based on peptide values from the enrichment, pooled controls, and MS controls (**Figure 1**). Peptides with CVs > 0.5 in the MS control were discarded. For multiple peptides mapped to the same protein, their mean abundance value, inversely weighted based on the sum of CVs from all three of the control series, was used as the protein-level measure for the downstream analysis. Of the peptide SRMs described above, 777 unique to 408 proteins were quantified in the human homogenates and 575 peptides unique to 351 proteins (a subset of the 408 homogenate proteins) were quantified in human synaptosome. Mean CV for peptide quantification in the human experiments was 0.12 (SD = 0.09) in the homogenates, 0.17 in synaptosomes (SD = 0.12) (**eFigure 2**).

Differential Expression Analysis: Limma-Voom(14) was performed to detect the difference between Sz and control samples in homogenate and synaptosome proteins, respectively. We estimated the correlation between paired subject samples using R function “duplicateCorrelation”. Empirical Bayes statistics were used to rank the proteins in the order of evidence for differential expression. The moderated t-statistics (based on the moderated standard errors for increased statistical power), p-values and q-values were obtained (eTables 1 and 2 in Supplement 2). Similar analyses using Limma-Voom were performed with pH and pH + Age added as covariates. T-tests were performed on protein data from monkey samples to compare haloperidol or olanzapine group versus the vehicle group.

Effects of PMI: One-way ANOVA was used to assess the effects of PMI on homogenate and synaptosome protein levels, respectively. The levels of all proteins for which an effect of PMI was detected (uncorrected $p < 0.05$, **eTables 3 & 5 in Supplement**), were plotted versus PMI and inspected by the senior author, blinded to protein identification. Proteins that displayed a step-wise increase or decrease (**eFigures 3 & 4**) were discarded while those that displayed linear or curved increase or decrease (and could presumably be controlled for by PMI matching) were retained (**eFigure 3**). PMI had an effect (uncorrected $p < 0.05$) on the levels of 60 proteins in homogenate and 70 proteins in synaptosomes (**eTables 3 & 5**). Of these, six in homogenate (B4DV12, E41L3, GFAP, PRDX1, TPIS, and DYN3) and four in synaptosomes (HS12A, KPCA, SYN1, and 2A5D) displayed step-wise alterations across PMI (**eFigures 3 & 4 in supplement**) and were dropped from analysis.

Network Analysis: Weighted Gene Co-expression Network Analysis (WGCNA)(34) was used to investigate the pattern of co-regulated protein expression. First, for homogenate and enriched synaptosome proteins, we performed exploratory WGCNA on Sz and control samples, separately. Then, we conducted module preservation analyses to test whether the modules identified from the Sz samples were preserved in the control samples, or vice versa (Figure S5) (35). Since all the modules detected from Sz samples were modestly to strongly preserved in the control samples and vice versa, we constructed protein co-expression networks using combined Sz and control samples, for homogenate (402 proteins) and enriched synaptosome (155 enriched proteins), respectively. Module membership was characterized for Gene Ontology terms by functional enrichment using DAVID(36). The two networks were visualized using Cytoscape. To quantitate the representation of protein levels in each module, we calculated the first principal component of modules given by WGCNA, referred to as the module-specific Eigenprotein (**eTables 7 & 8**). Sz-control differences between

module-specific Eigenproteins were assessed by Student's t-test. A linear regression model was fitted to model the correlation between the Eigenproteins of each module, with diagnosis and batch included as covariates.

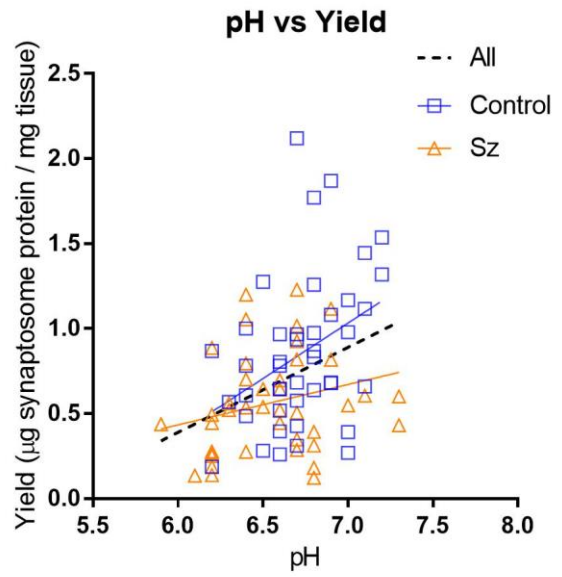
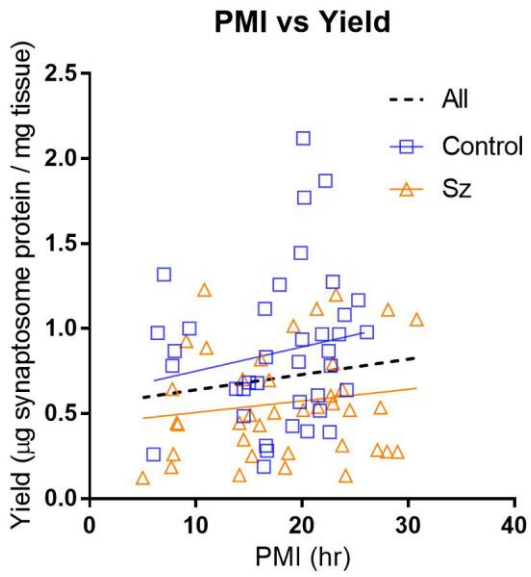
Comparison to PsychENCODE mRNA Findings: Homogenate and Synaptosome protein findings from this study were compared to findings from a recent meta-analysis(15) of RNAseq studies from the PsychENCODE Consortium(16). This study integrated analyses of frontal and temporal cerebral cortex tissue from 559 Sz subjects and 936 controls. Ensembl identifiers from the RNAseq meta-analysis were mapped to UniProtKB identifiers in our data using the *Retrieve/ID mapping* tool(17), and reported fold-changes and adjusted p-values for Sz-control transcript differences extracted for the aligned proteins (**Tables S12 & S13**). Of the 402 proteins investigated in the present study, all but two (GCG: glucagon and SPTA1: Spectrin Alpha, Erythrocytic 1, proteins for which transcripts would not be expected to be present in brain tissue) were mapped mRNA transcripts. Fisher's exact test was used to assess if a significant number of homogenate or synaptosome protein alterations overlapped with the reported transcriptome differences (**eFigure 14A & B in supplement**). Additionally, linear regressions were run to assess the level of association between mRNA-homogenate protein level fold-changes and mRNA-synaptosome protein level fold-changes (**eFigures 14C & D in supplement**).

Additional Potential Confounds: In addition to antipsychotic medication and PMI, several other potential confounding factors were present in this cohort, including (but not limited to) pH, age, storage time, smoking tobacco, death by suicide, and schizoaffective disorder (**eTables 3 and 4 in Supplement 2**). Of these, only age significantly correlated with homogenate protein levels, and only age and pH significantly correlated with synaptosome protein levels ($q < 0.05$, Tables S16 and S17). Based on these findings, we ran additional Limma-voom case-control analyses including **1.** pH as a covariate and **2.** pH and age as covariates. The results of both of these analyses are included in **eTables 1 and 2 in Supplement 2**. Age did not impact our findings. Inclusion of pH had little overall effect on the associations of protein levels with diagnosis in synaptosome. Although the inclusion of this covariate did slightly increase the smallest p-values and the corresponding adjusted p-values, the rank order of association in the two analyses were highly correlated (**eTable 2 in Supplement 2**, columns L and P, **eFigure 15**). We have chosen to present the Limma-voom without pH as our primary analysis as pH cannot be disentangled from disease process. As all the tissue included in this study was obtained from individuals without prolonged agonal states (as reflected in the overall high pH across samples), pH differences are not a result of a technical or sampling artifact. Instead, mitochondrial alterations within individuals with Sz, evidenced by altered mitochondrial protein levels in both homogenate and synaptosome samples in our studies, would be expected to alter tissue pH.

Limitations: This study was conducted in human postmortem brain tissue. We have strived to control for confounds associated with this approach via subject matching, animal models, and statistics. Additionally, while we observed significant alterations in synaptosome protein levels future studies will be required to determine the cause of these alterations.

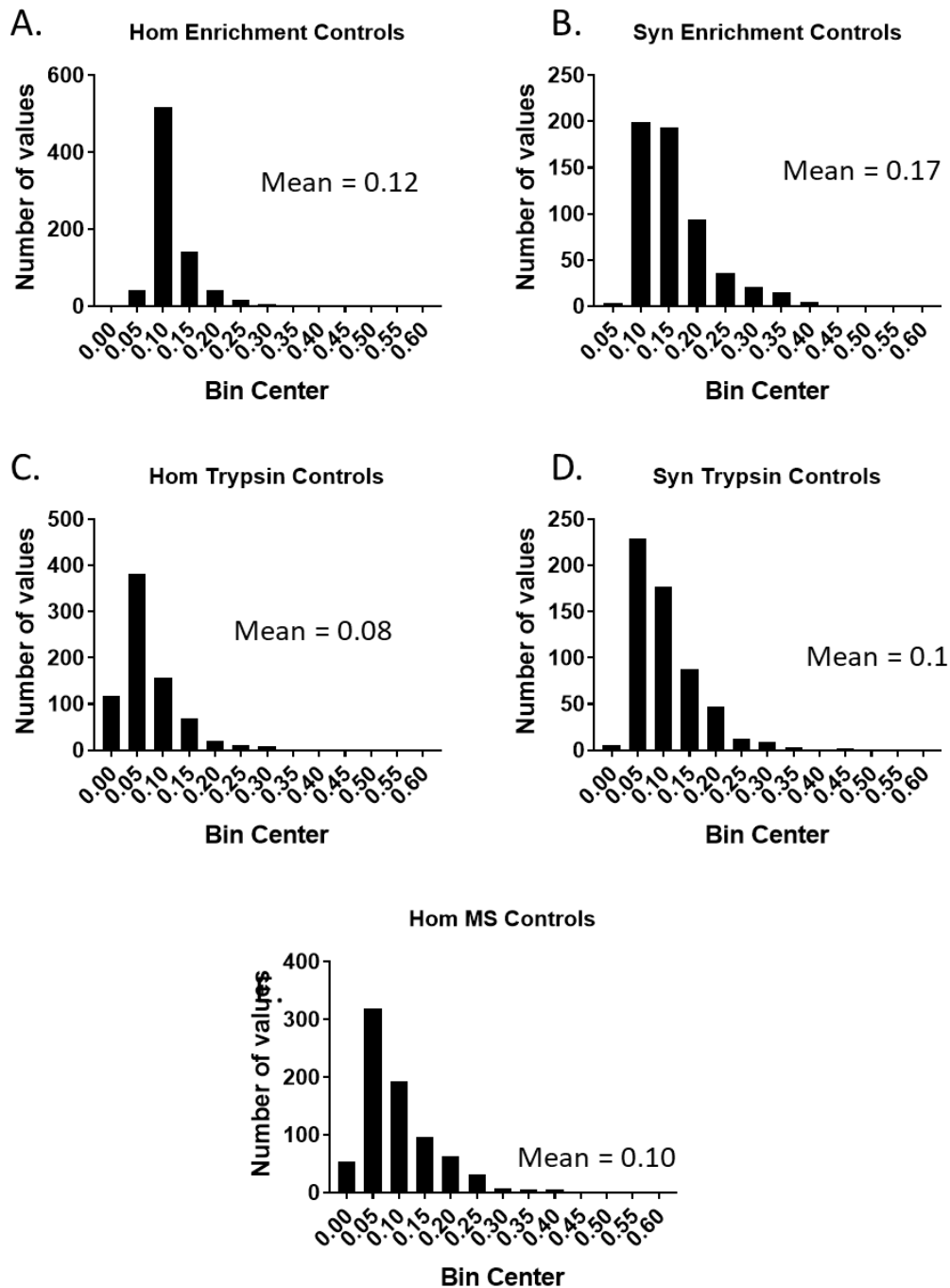
eFigure 1. Synaptosome Yield, PMI, and pH in Human Tissue

Linear regression analyses of synaptosome yield (μg total synaptosome protein / mg tissue) with PMI (A) and pH (B).



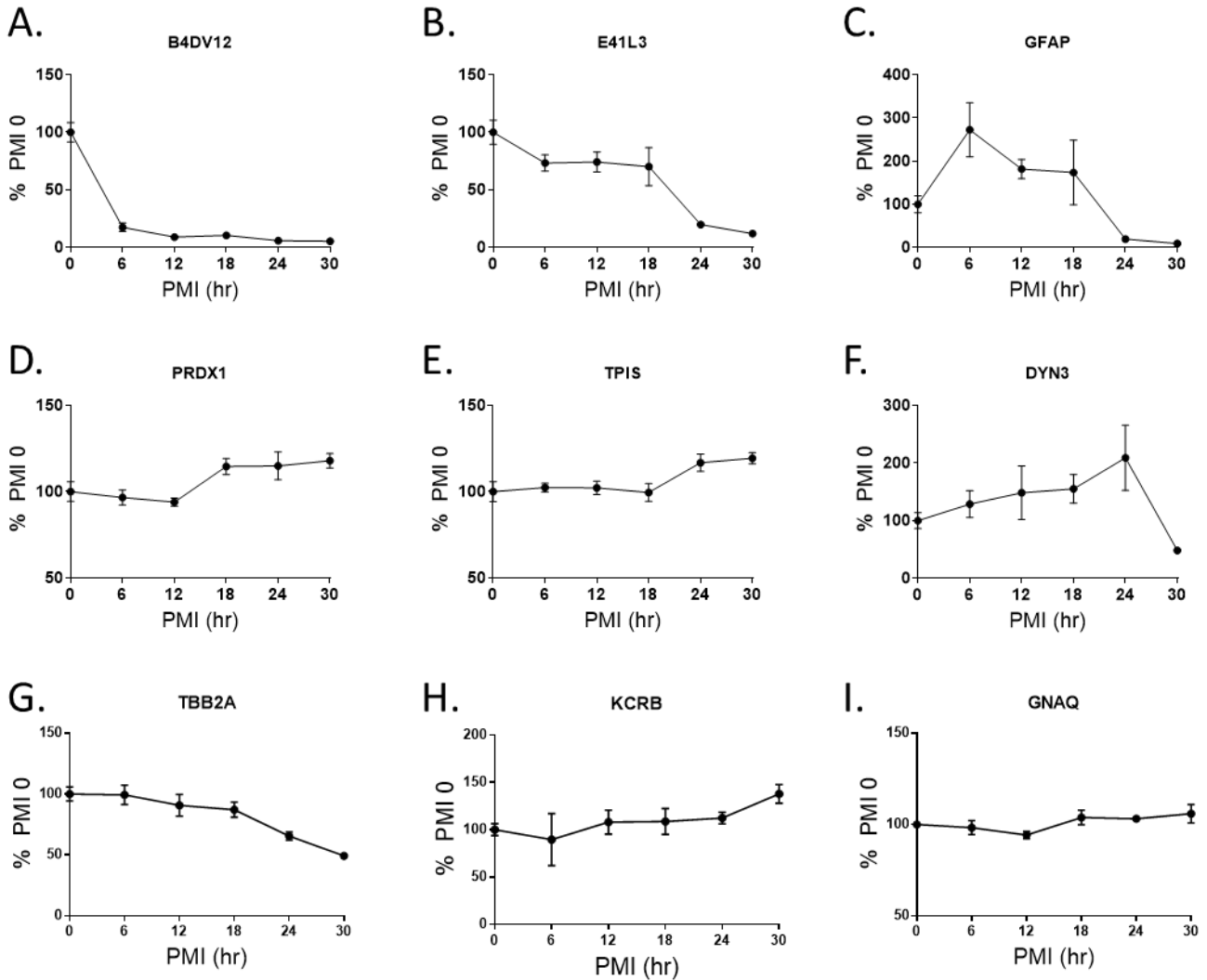
eFigure 2. Distribution of Technical and Variance in Peptide Quantification

A. 777 peptides unique to 402 proteins were quantified in 12 homogenate Enrichment Controls. The mean CV was 0.12 with 75% peptide CVs < 0.17. **B.** 575 peptides unique to 348 proteins were quantified in 12 synaptosome Enrichment Controls. The mean CV was 0.17 with 75% peptide CVs < 0.19. **C.** 777 peptides unique to 402 proteins were quantified in 8 homogenate Trypsin Controls. The mean CV was 0.08 with 75% peptide CVs < 0.13. **D.** 575 peptides unique to 348 proteins were quantified in 8 synaptosome Trypsin Controls. The mean CV was 0.1 with 75% peptide CVs < 0.13. **E.** 777 peptides unique to 402 proteins were quantified in 8 homogenate MS Controls. The mean CV was 0.1 with 75% peptide CVs < 0.13.



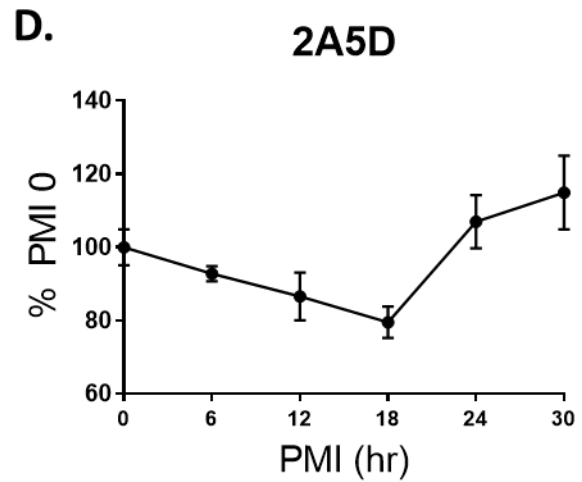
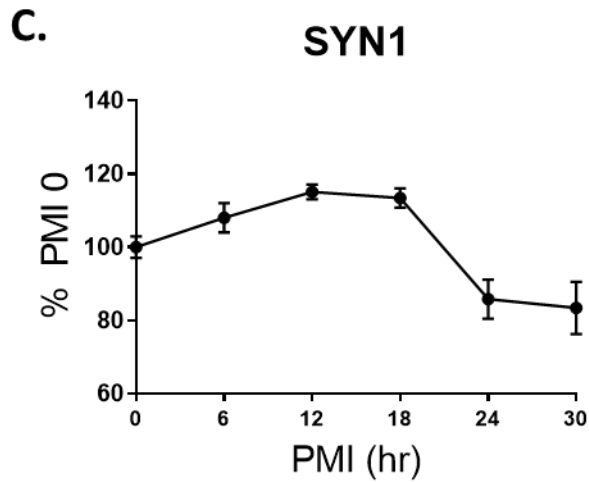
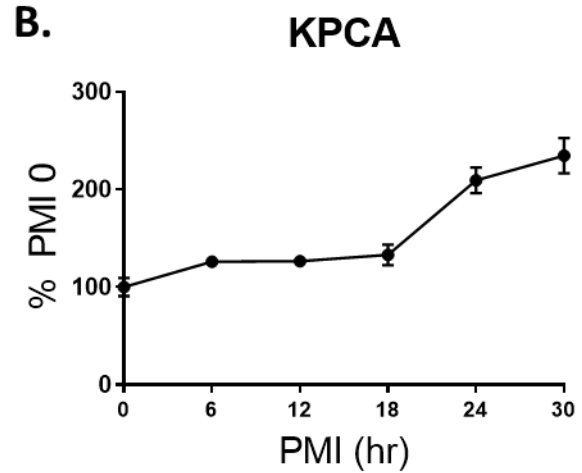
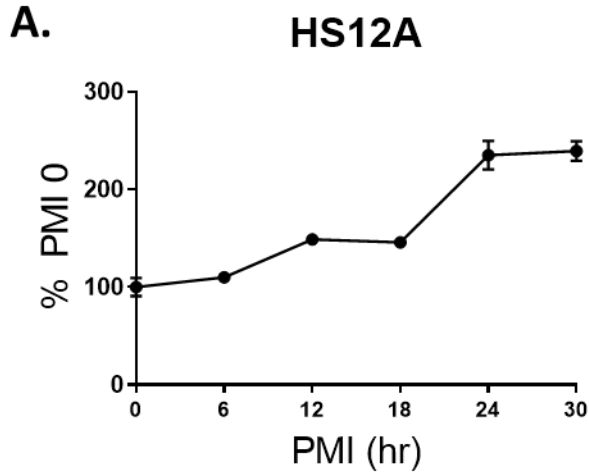
eFigure 3. Homogenate Protein Levels and PMI in Mice

A. – F. show the six proteins with homogenate levels that were significantly correlated with PMI in mice with stepwise changes. These proteins were dropped from analysis. **G. - I.** show representative proteins that were retained in statistical analysis.



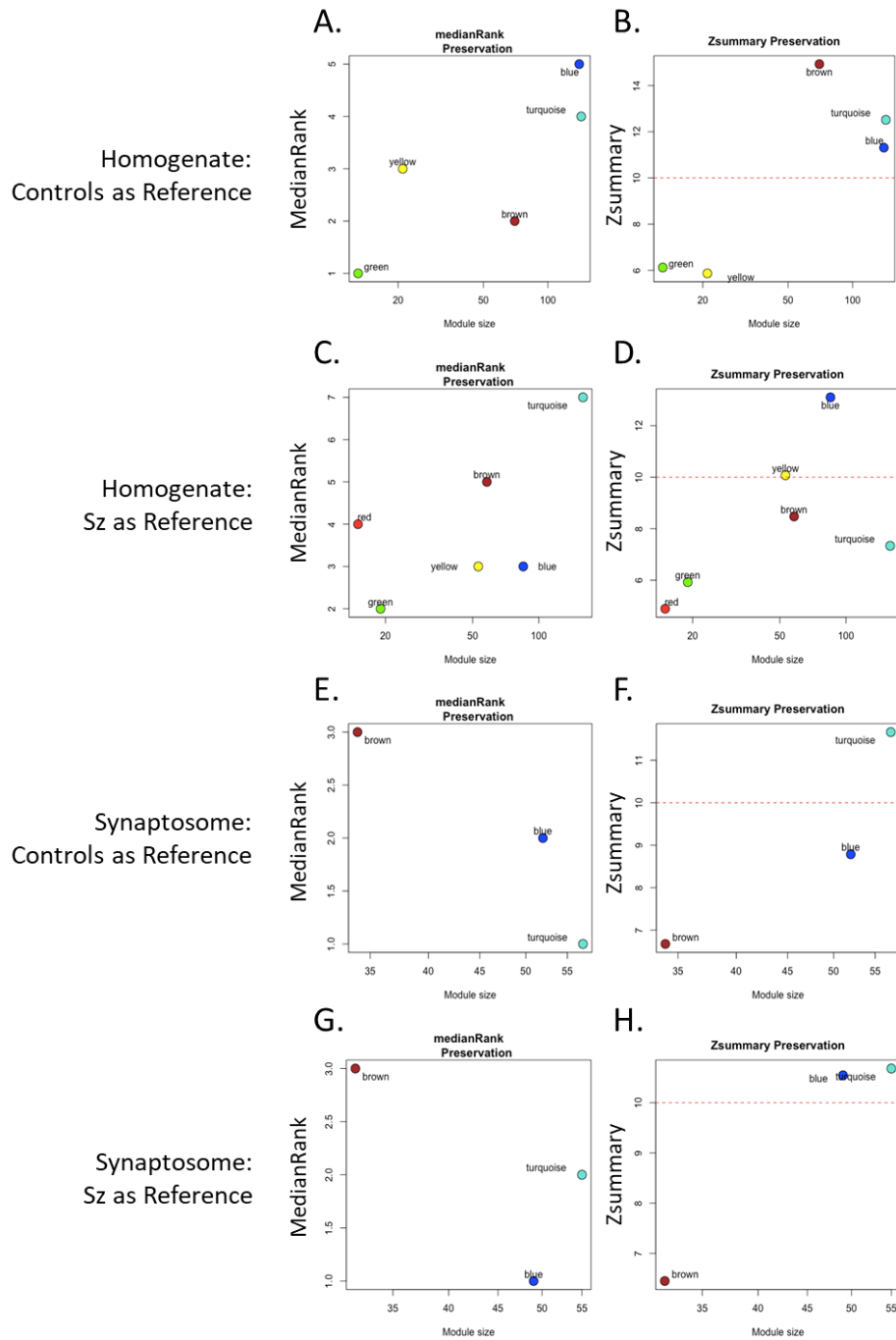
eFigure 4. Synaptosome Protein Levels and PMI

A. – D. show the six proteins with synaptosome levels that were significantly correlated with PMI in mice with stepwise changes. These proteins were dropped from analysis.



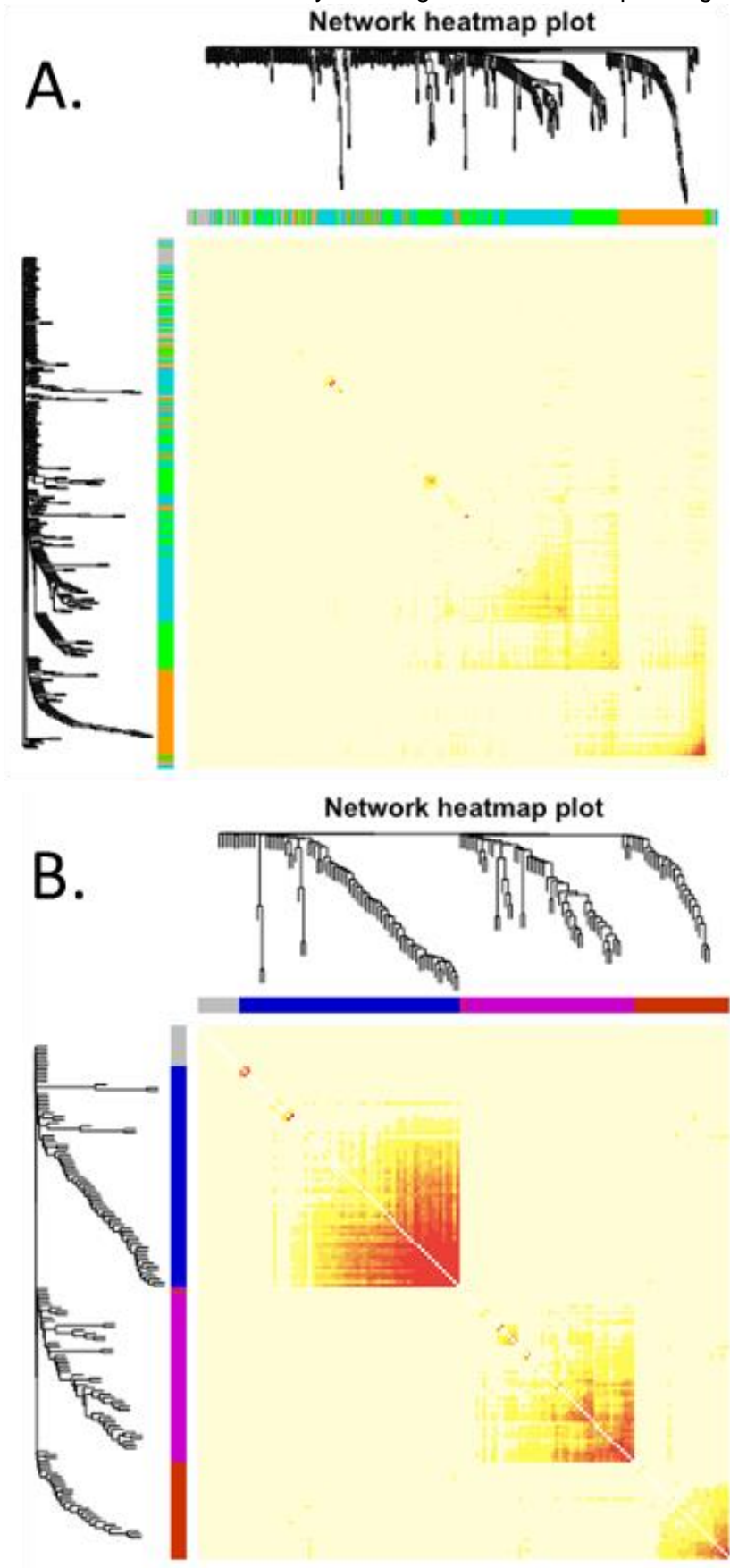
eFigure 5. Exploratory Module Preservation Analysis

Panels **A**, **C**, **E**, and **G** show the composite statistic medianRank versus module size. The higher the medianRank, the less preserved is the module relative to other modules. Panels **B**, **D**, **F**, and **H** show the composite statistic Zsummary versus module size. Zsummary < 2 indicates no preservation, 2 < Zsummary < 10 indicates weak to moderate evidence of preservation, Zsummary > 10 indicates strong evidence of preservation. This exploratory analysis utilized different WGCNA parameters than subsequent WGCNA builds, allowing for a greater number of modules.



eFigure 6. Homogenate and Synaptosome Protein Networks

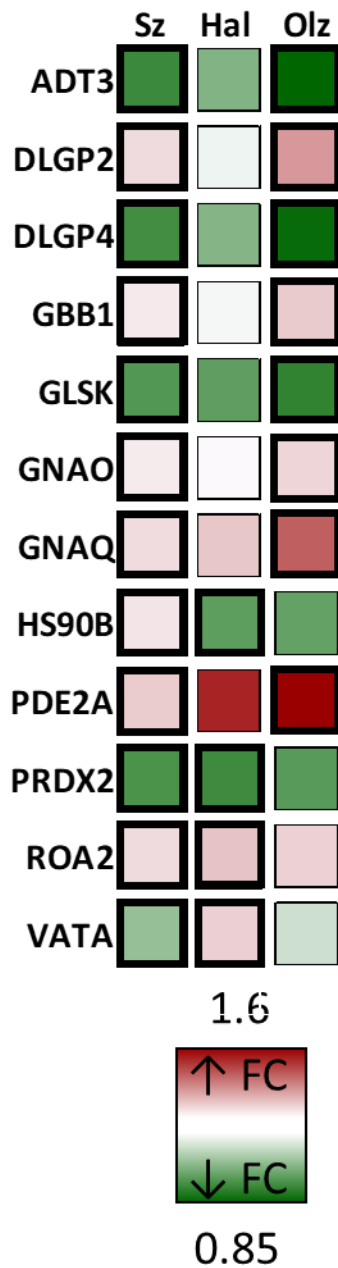
Protein co-regulation networks were constructed for the homogenate (A.) and synaptosome (B.) proteomes. Greater correlation between proteins is depicted in the heat maps as intensity of red color. Clustering of proteins into different modules is shown the by dendrograms and corresponding X and Y axis color coding.



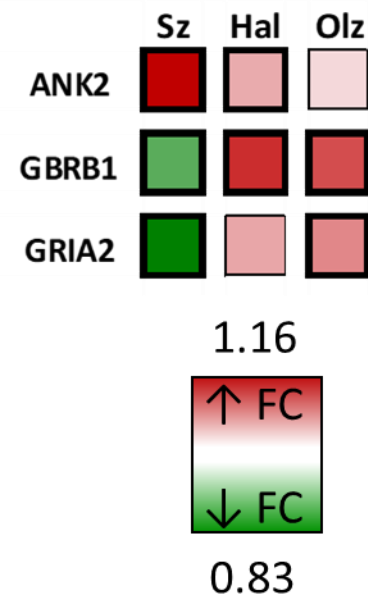
eFigure 7. Comparison of Antipsychotic Drug Effects and Sz Alterations

These heat maps report fold-changes between Sz and control (Sz), haloperidol and vehicle (Hal), and olanzapine and vehicle (Olz) in homogenates (A.) and synaptosomes (B.). Windows with thicker borders denote significant fold-changes in Sz ($q < 0.05$) and nominally significantly fold-changes in Hal and Olz ($p < 0.05$).

A. Homogenate



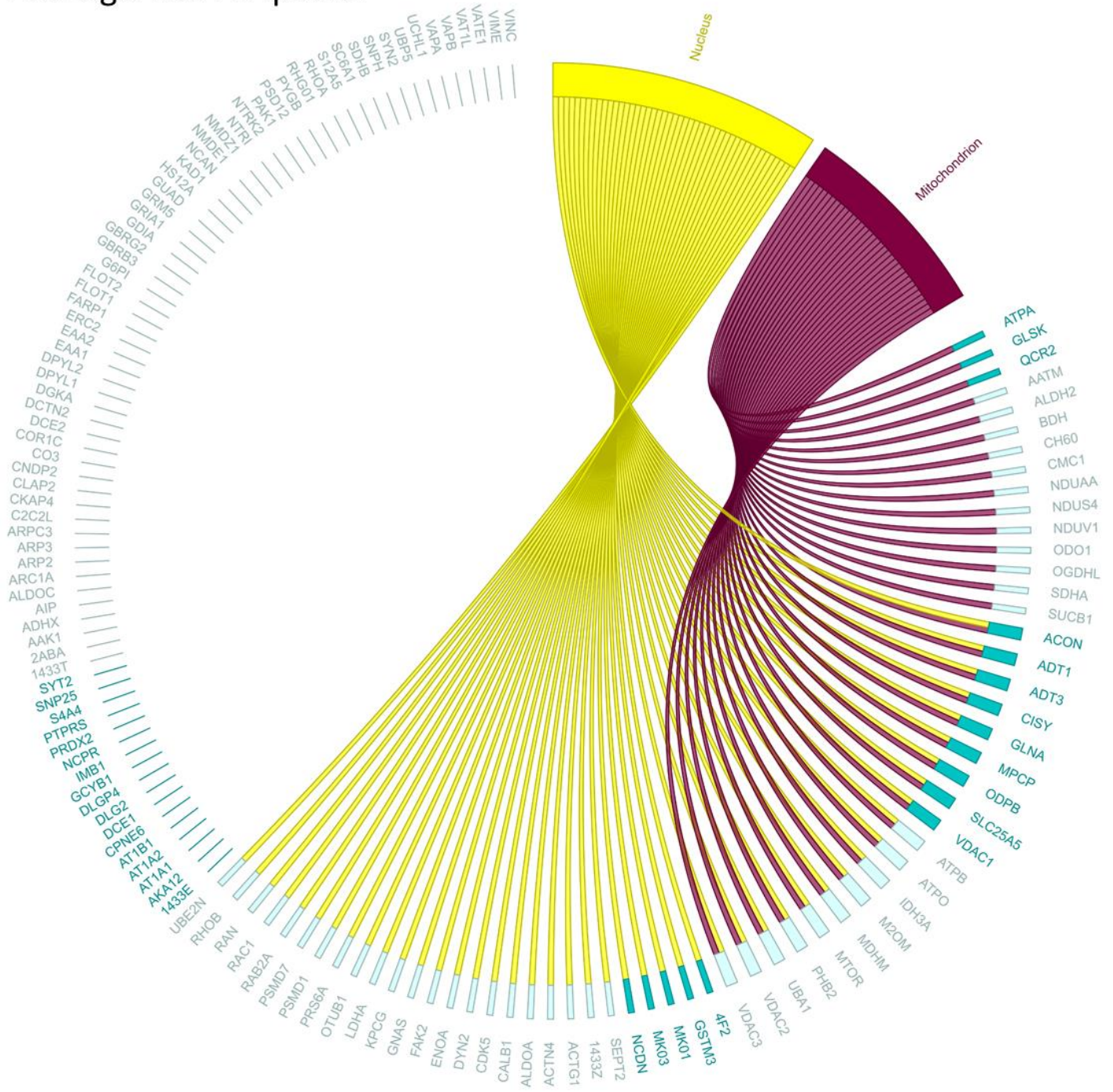
B. Synaptosome



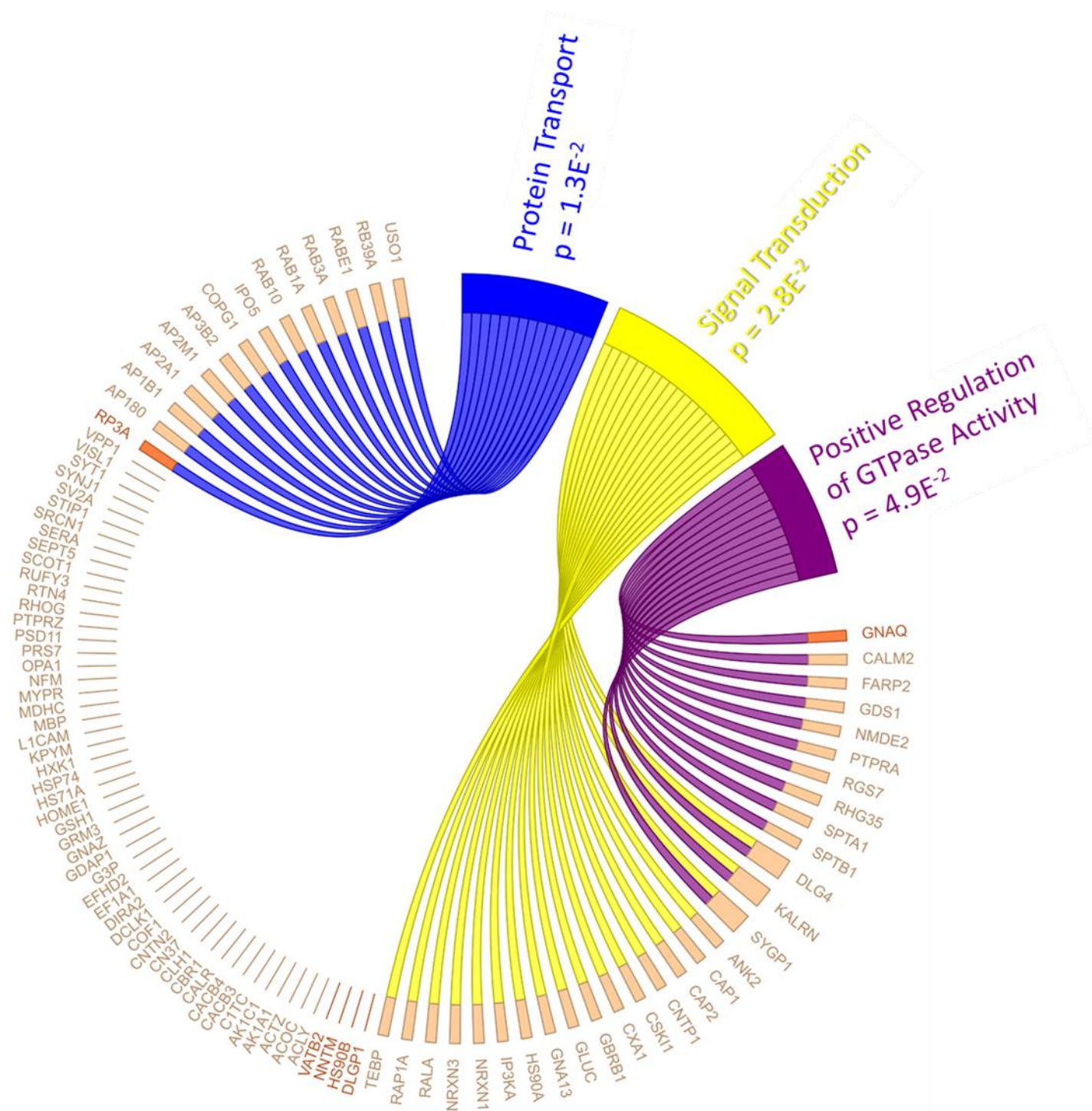
eFigures 8-13. Expanded Chord Diagrams for All Homogenate and Synaptosome Modules

The chord figures depict the number of proteins in each module that contribute to the selected gene ontologies. p-values report the significance of enrichment for the ontology term in the modules. Proteins contributing to ontologies are depicted as rectangles, with darker colors denoting those significantly altered in Sz. Proteins not contributing to the ontologies are depicted as lines, again with darker colors denoting significant alterations in Sz.

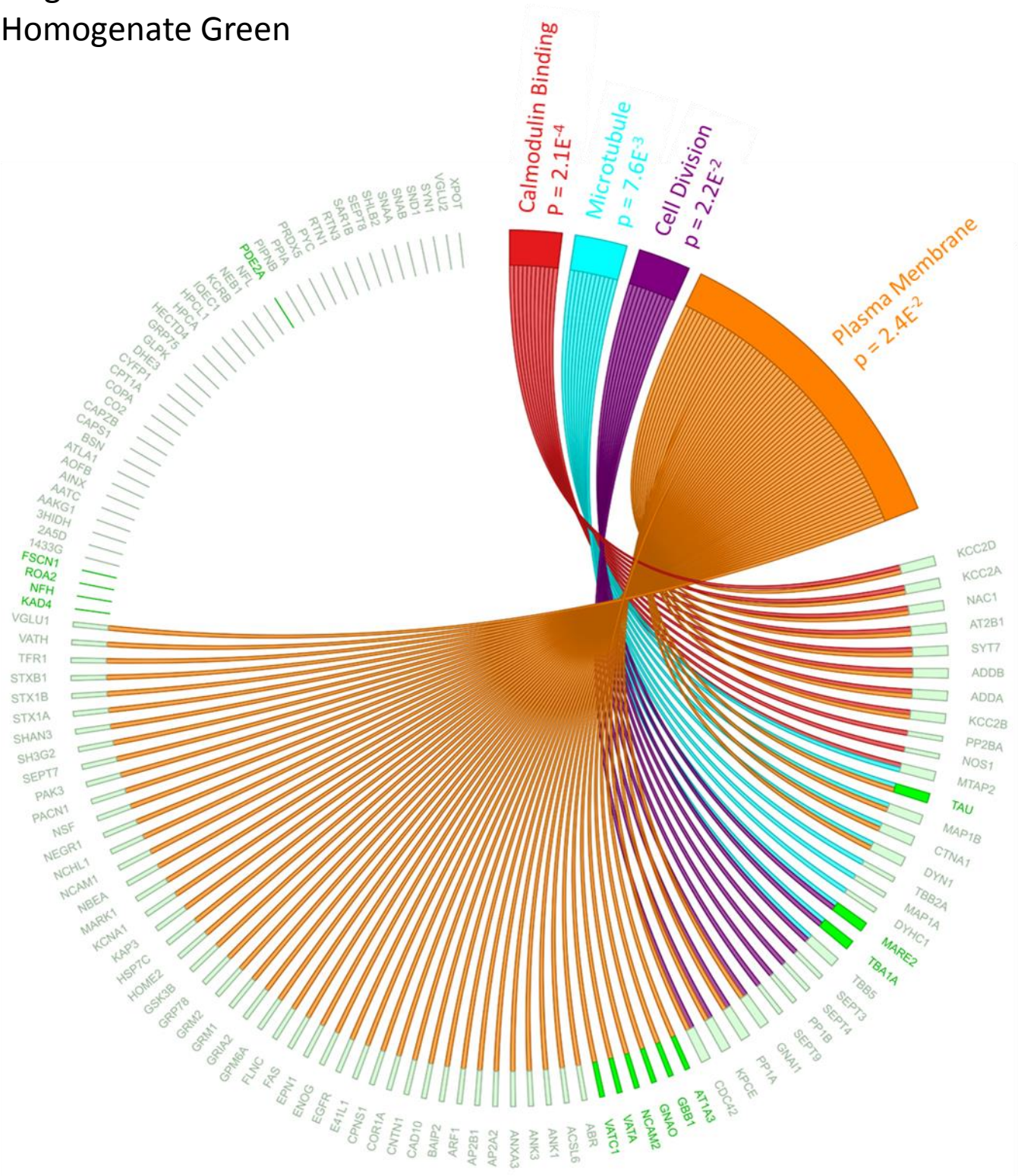
Figure S8.
Homogenate Turquoise



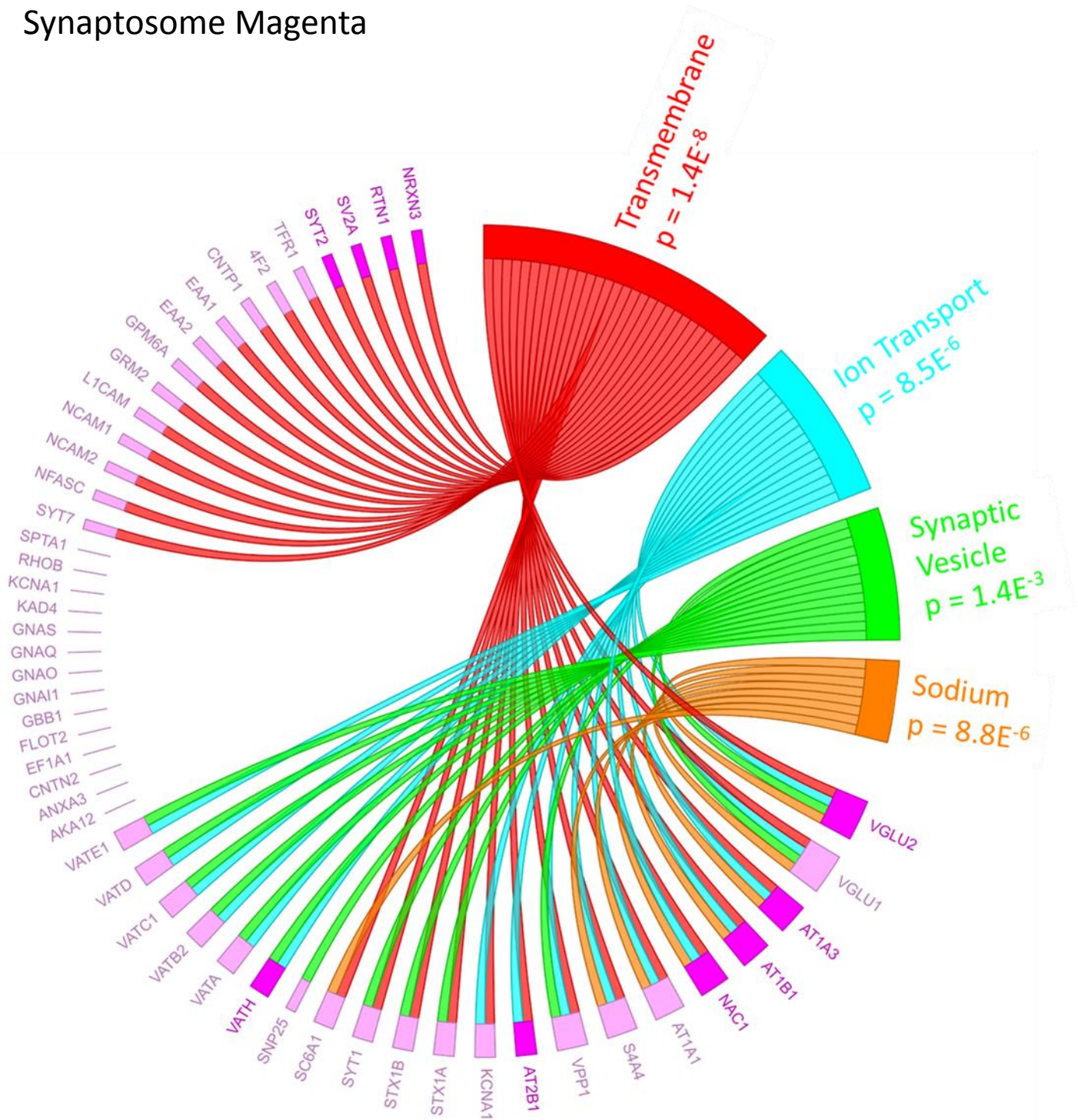
eFigure 9.
Homogenate Orange



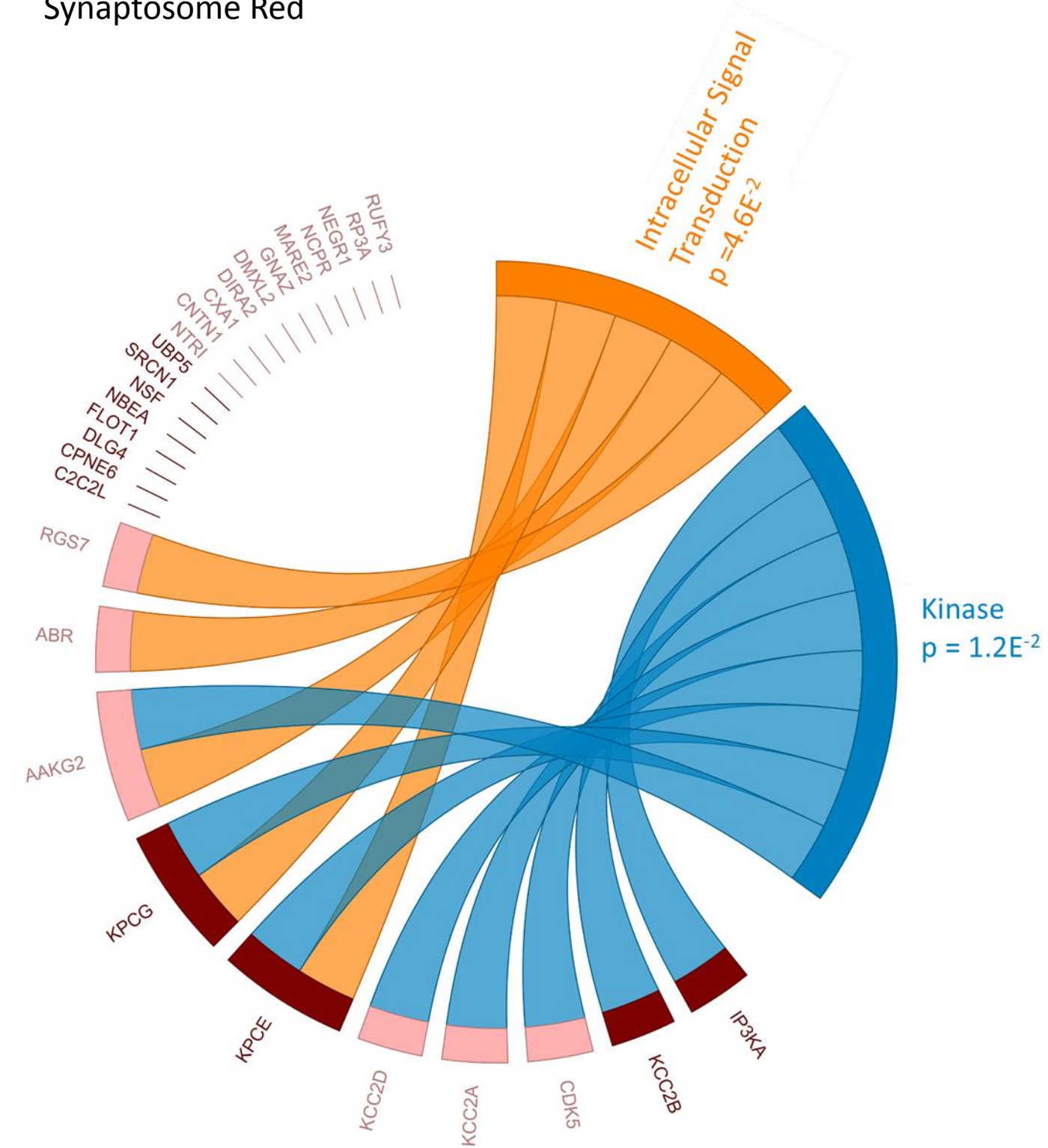
eFigure 10.
Homogenate Green



eFigure 12.
Synaptosome Magenta

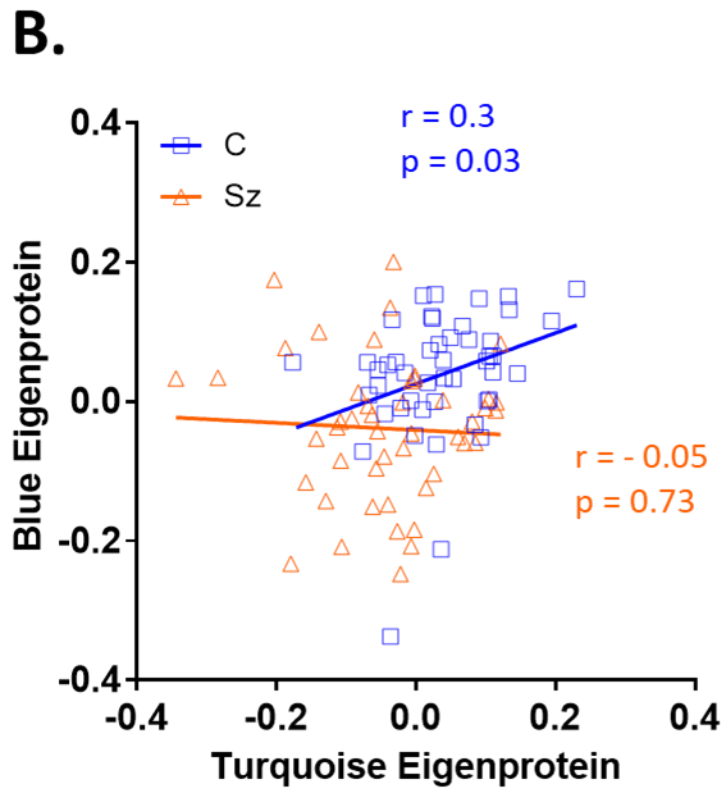
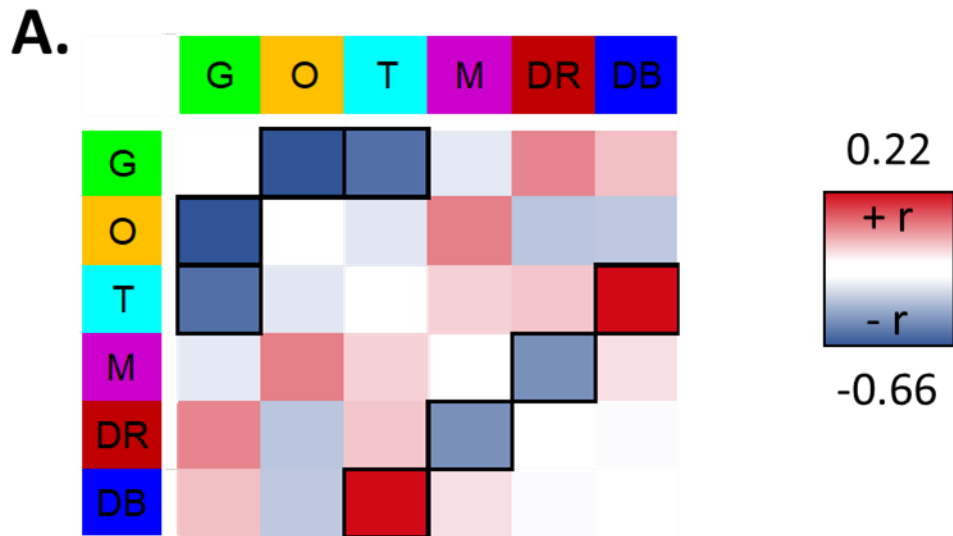


eFigure 13.
Synaptosome Red



eFigure 14. Associations Between Module Eigenprotein Values

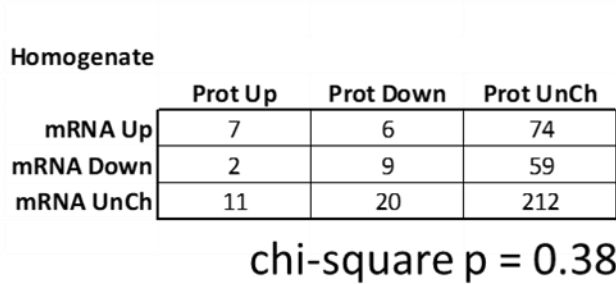
A. Reports the correlations between the module Eigenprotein values as a heat map. Thicker black border denotes a significant correlation ($p < 0.05$). B. Plots the Eigenprotein values of the homogenate Mitochondrion module (Turquoise) as well as the synaptosome Mitochondrion & Postsynaptic Membrane module (Blue), which are correlated in controls, but not Sz.



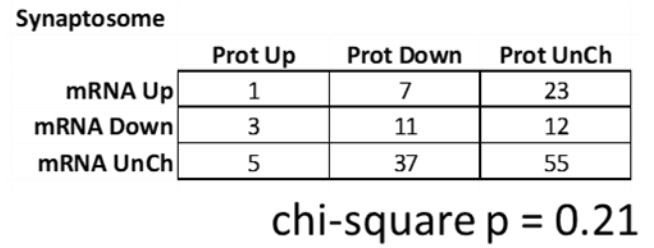
eFigure 15. Comparison of Proteomic and Transcriptomic Analysis of Sz Tissue

A. Chi-square analysis of bulk tissue RNAseq and homogenate protein level alterations. **B.** Chi-square analysis of bulk tissue RNAseq and synaptosome protein level alterations. **C.** Linear regression of bulk tissue RNAseq and homogenate protein level alterations. **D.** Linear regression of bulk tissue RNAseq and synaptosome protein level alterations.

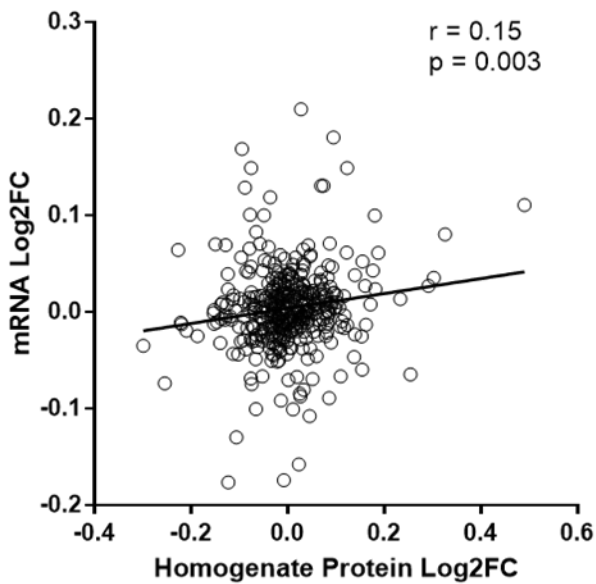
A.



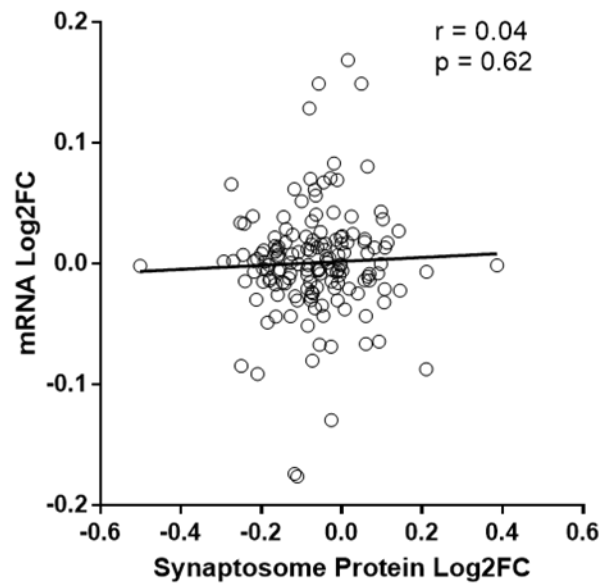
B.



C.

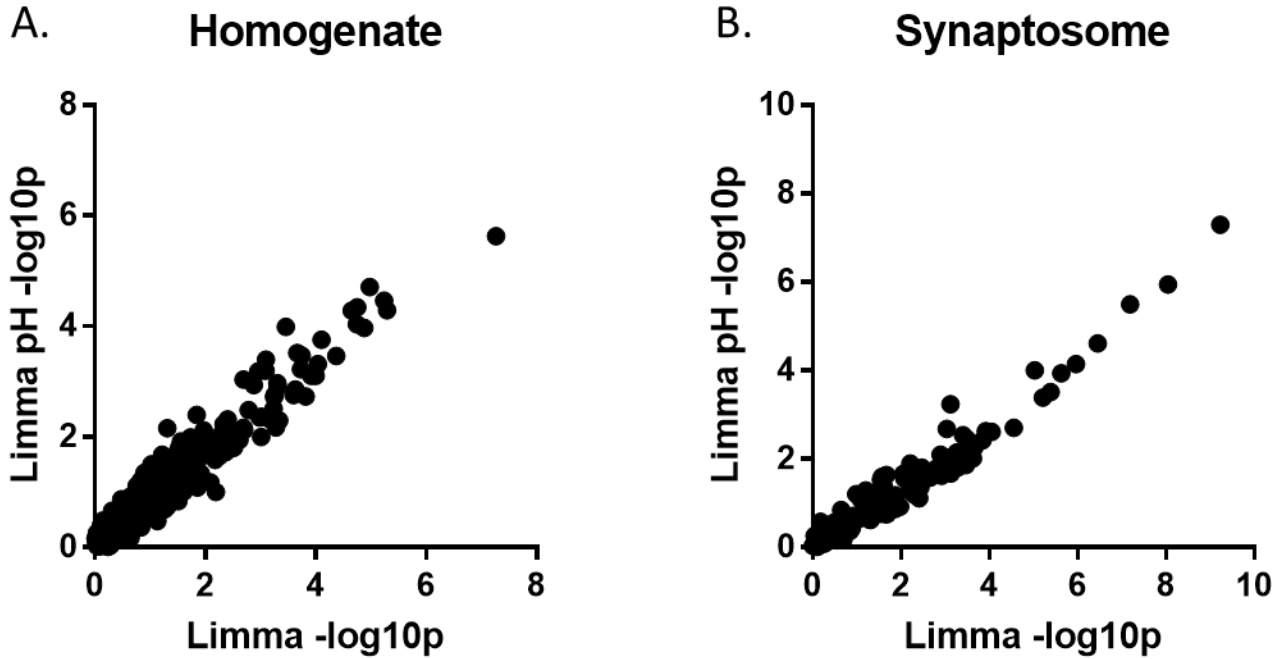


D.



eFigure 16. Comparison of Limma-Voom P Values With and Without pH as a Covariate

Unadjusted p-values for the Sz-control comparison, with and without pH as a covariate, are plotted for the homogenate (A.) and Synaptosome (B.) preparations. While there was a uniform shift in p-values with the inclusion of pH, the rank ordering of the effects were largely unaltered.



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