

Supplementary 1

Table S1 All proteins detected with significant change in abundance between treatments, including gene name, protein IDs, p-value and log fold change. Significant p-value < 0.05. The background colors refer to the change in abundance of each protein in the 3D culture as compared to the 2D culture. Increase in abundance was marked by blue, while decrease by red. The intensity of the color is proportional to the magnitude of each change (i.e. the darker the color the larger the fold change). Log2 scale was used.

Gene Name	Protein IDs	2D vs 3D Log2 fold change	2D vs 3D p.value
CSRP1	P21291	7.07	2.04E-10
TIPRL	O75663	6.94	2.70E-08
GLS.1	O94925-3	5.5	1.01E-09
SCAMP2	O15127	5.15	3.40E-08
ENPP1	P22413	4.73	3.84E-05
DSTN	P60981	4.72	0.000125
CD63	F8VNT9	4.7	1.23E-06
NEK7	Q8TDX7	4.52	8.38E-08
PRNP	P04156	4.38	6.89E-06
MCFD2	Q8NI22	4.33	5.10E-06
CTTN	Q14247	4.23	8.12E-07
FAF2	Q96CS3	4.17	0.000782
PDAP1	Q13442	4.13	1.09E-05
LIMCH1	Q9UPQ0	4.09	2.20E-07
IAH1	H7C5G1	3.84	1.47E-07
DAB2	P98082-3	3.79	7.33E-07
AKR7A2	O43488	3.77	9.47E-08
MARCKS	P29966	3.74	8.22E-06
AGFG1	P52594-2	3.71	2.09E-08
FAS	Q59FU8	3.69	7.85E-06
HMGA1	P17096	3.69	8.89E-08
ERLIN2	O94905	3.64	0.000133
LMO7	Q8WWI1-3	3.59	2.49E-07
TAX1BP3	O14907	3.57	1.94E-06
SOD1	P00441	3.56	0.000134
HMOX2	A0A087WT44	3.53	5.84E-06
PHPT1	Q9NRX4	3.53	5.60E-07
BST1	A6NC48	3.52	0.000386
GRPEL1	Q9HAV7	3.51	2.73E-06
COPZ2	Q9P299	3.48	4.13E-06
ALYREF	E9PB61	3.47	0.00177
CDH2	C9J126	3.41	2.00E-05

PIEZO1	Q92508	3.41	1.30E-08
NUTF2	P61970	3.38	1.51E-05
COL1A2	P08123	3.32	7.96E-05
EIF4H	A0A7I2V4E4	3.32	2.24E-05
SORBS3	O60504-2	3.3	5.08E-05
CARHSP1	Q9Y2V2	3.28	0.00373
COL1A1	P02452	3.28	5.09E-05
LPXN	O60711	3.26	8.69E-06
ABR	A0A0G2JQ41	3.23	8.23E-06
KLC1	G3V3H3	3.21	9.39E-05
SH3GLB1	A0A087WW40	3.2	6.71E-07
DFFA	O00273	3.19	1.56E-06
PSMD4	Q5VWC4	3.18	2.76E-05
CAP2	P40123	3.16	1.77E-06
EIF3E	P60228	3.15	0.00143
OSTF1	Q92882	3.14	1.68E-05
GDI1	P31150	3.13	1.85E-06
UFC1	Q9Y3C8	3.13	0.000964
KHSRP	M0R0C6	3.09	2.25E-06
TMEM119	Q4V9L6	3.09	3.64E-07
ANXA6	E5RK69	3.08	2.27E-06
MAP4K4	E7ENQ1	3.08	1.22E-06
RAB1A	P62820	3.08	6.81E-06
TIMM9	Q9Y5J7	3.08	1.53E-05
RAPH1	C9J164	3.05	2.85E-06
PDHB	P11177-2	3.04	0.00117
ACP2	E9PQY3	3.03	0.000178
PTK7	Q13308-4	3.03	3.47E-07
CALM2	P0DP25	3.01	3.70E-06
DDX6	P26196	2.99	0.000504
GRAMD3	Q96HH9-4	2.98	2.03E-05
ATP2B1	P20020-1	2.96	4.13E-05
TAGLN	Q01995	2.96	6.39E-07
UBQLN2	Q9UHD9	2.93	4.31E-05
PDLIM2	B3KPU0	2.91	0.00217
CERCAM	Q5T4B2	2.89	0.000336
AKAP12	Q02952-3	2.88	4.90E-05
RAI14	Q9P0K7-4	2.87	0.000177
TRIP6	Q15654	2.85	2.86E-05
TSNAX	Q99598	2.85	2.89E-05

PRKRA	A0A7I2YQ87	2.81	0.00354
NNMT	P40261	2.8	0.000381
BAX	Q07812-5	2.79	0.00221
ENG	P17813	2.79	1.45E-06
SQSTM1	Q13501	2.79	0.00264
LOX	P28300	2.78	9.00E-04
VAMP3	Q15836	2.78	0.00274
AHNAK2	Q8IVF2	2.77	1.82E-05
SERPINB1	P30740	2.74	0.000122
IFITM3	E9PS44	2.72	2.02E-05
DYNLT1	P63172	2.71	0.000569
PAFAH1B2	P68402	2.71	3.57E-05
LIMA1	Q9UHB6	2.7	1.65E-05
HN1	J3KT51	2.69	0.000494
SCUBE3	Q8IX30	2.68	0.00155
ATP5H	O75947	2.67	0.000542
C21orf33	P0DPI2	2.67	0.000689
ADD1	E7EV99	2.65	2.70E-05
ZMPSTE24	O75844	2.65	0.0116
CLTA	P09496-2	2.64	0.000208
PCBP1	Q15365	2.64	0.000337
PICALM	Q13492	2.64	0.000993
CAPNS1	A0A0C4DGQ5	2.61	0.000467
CACYBP	Q9HB71	2.6	0.0012
SLC30A1	Q9Y6M5	2.6	0.000293
TPD52L2	O43399	2.6	0.00142
BAG2	O95816	2.58	7.84E-05
RPL24	C9JXB8	2.58	0.00102
DLG1	Q12959-5	2.56	4.64E-05
GCC1	Q96CN9	2.56	0.000677
ITGA2	P17301	2.55	0.0034
FUBP3	Q96I24	2.53	0.00157
HERC4	Q5GLZ8-3	2.53	0.000138
C1orf198	Q9H425-3	2.51	9.23E-06
CTBP1	Q13363-2	2.5	6.96E-05
HSPB1	P04792	2.5	2.72E-05
ETFA	P13804	2.47	0.00338
STAT3	A0A7I2V4R2	2.44	8.69E-05
TOLLIP	Q9H0E2	2.44	0.00157
SLK	Q9H2G2	2.43	0.00527

HSPB6	O14558	2.42	0.000245
PPP1R14B	Q96C90	2.42	0.000211
PSMD5	Q16401-2	2.42	0.000855
SCYL1	E9PS17	2.42	0.000139
SORBS2	O94875-11	2.42	0.000366
SRP72	O76094	2.42	0.00289
BOLA2	A0A499FJE1	2.4	0.00231
HADHA	H0YFD6	2.4	2.77E-05
PTRHD1	Q6GMV3	2.4	0.00957
STX4	Q12846	2.4	9.44E-05
AIMP2	Q13155	2.39	0.00208
PRRC1	Q96M27	2.39	0.000461
ZNF207	J3QRS9	2.37	0.00142
FKBP1A	P62942	2.35	7.70E-05
LNP	Q9C0E8-2	2.34	0.00744
CTNND1	O60716	2.33	0.000223
DCTD	P32321	2.33	0.000254
HSPE1	P61604	2.33	0.000215
SPAG9	O60271-4	2.33	0.00078
ACAA1	P09110	2.32	0.000599
CMPK1	P30085	2.32	5.52E-05
IGBP1	P78318	2.32	0.000239
AP2A1	O95782-2	2.31	0.00024
FTL	P02792	2.31	7.59E-05
PDLIM7	Q9NR12	2.31	6.25E-05
TBC1D2	Q9BYX2-3	2.31	1.98E-05
BANF1	O75531	2.3	0.000285
CTPS1	A0A3B3IRI2	2.3	0.00158
HIBADH	P31937	2.3	0.00562
STK38L	Q9Y2H1	2.29	0.000483
DDX42	Q86XP3	2.28	9.12E-06
SLC12A4	Q9UP95	2.28	0.00167
RAB5C	P51148	2.27	6.60E-05
SYNPO2	H0Y9Y3	2.27	0.00291
SSSCA1	G3V1B8	2.26	0.00407
C1orf123	Q9NWV4	2.25	0.00355
TBCD	A0A804HLF8	2.24	0.000931
AP2M1	A0A8I5KWD3	2.23	0.00072
GSS	A0A2R8Y430	2.23	0.0034
CAPZA2	P47755	2.21	1.83E-06

COPS4	Q9BT78	2.21	0.000208
PPP1R9B	Q96SB3	2.21	0.000252
RIC8A	Q9NPQ8-4	2.21	0.000118
UBAP2L	Q14157-1	2.21	7.86E-05
EMC8	M0R1B0	2.2	0.00126
PDXDC1	H3BND4	2.2	1.10E-05
PHLDB1	Q86UU1-3	2.2	0.000192
UBE2Z	Q9H832	2.2	0.00103
NUDC	Q9Y266	2.19	0.0154
MYL9	P24844	2.18	9.36E-06
RPS10	P46783	2.18	0.00175
TGM2	P21980	2.18	3.36E-05
API5	Q9BZZ5-2	2.17	0.0125
YKT6	A0A7I2V4L6	2.16	0.000595
CAV1	Q03135	2.15	0.00094
SNX1	Q13596-2	2.15	0.00243
CIRBP	Q14011	2.14	0.00104
COMMD4	A0A0B4J287	2.14	0.00628
HSD17B10	Q99714	2.14	0.00243
RBM3	P98179	2.14	0.0083
TNS1	A0A804HI61	2.13	0.000109
TTLL12	Q14166	2.12	0.00127
AK4	P27144	2.11	0.000339
APPL2	Q8NEU8	2.11	0.000262
CCDC22	O60826	2.11	3.89E-05
CUL4B	A0A7P0T954	2.1	5.03E-05
ARFGAP2	Q8N6H7	2.09	0.00218
EEF1B2	P24534	2.09	2.67E-05
ZYX	Q15942	2.09	0.000193
APOOL	Q6UXV4	2.08	0.000161
COPS3	Q9UNS2-2	2.08	0.00041
MAVS	Q7Z434	2.08	0.00287
SEC24A	O95486	2.08	0.00284
GLS	O94925	2.07	6.80E-06
PPM1F	P49593-2	2.07	0.000203
TBL2	E9PF19	2.07	0.00245
ECH1	Q13011	2.06	0.0041
DCTN2	Q13561	2.04	0.0105
IPO5	O00410	2.04	2.42E-05
RAB31	Q13636	2.04	0.00134

CAPZA1	P52907	2.03	2.33E-05
PURA	Q00577	2.03	0.0132
CFL1	E9PK25	2.02	0.00278
IMMT.1	Q16891-4	2.01	0.0111
YBX3.1	P16989-2	2.01	0.00642
EHD1	A0A024R571	2	4.49E-05
EXOC2	Q96KP1	2	0.000534
B3GALTL	Q6Y288	1.99	0.000237
YAP1	P46937-5	1.99	0.00271
MXRA7	P84157-2	1.98	0.0046
TMPO	P42167	1.98	9.51E-05
EXOC1	Q9NV70-2	1.95	0.000637
SH3BGRL3	Q9H299	1.95	9.83E-05
SNAP23	O00161	1.95	0.00287
CYBRD1	Q53TN4-3	1.94	0.00369
SCAMP1	A0A087WXB0	1.94	0.00277
SMS	P52788	1.94	0.0114
C14orf166	Q9Y224	1.93	7.27E-05
CACNA2D1	P54289-4	1.93	0.00105
MRPL50	Q8N5N7	1.93	0.00123
TMEM214	Q6NUQ4	1.93	0.00558
UBXN6	Q9BZV1-2	1.92	0.00628
PAWR	Q96IZ0	1.91	0.000362
C12orf75	F8VQD4	1.9	0.000997
EIF3F	H0YDT6	1.9	0.00022
PPME1	Q9Y570	1.89	0.00147
CD81	E9PJK1	1.88	8.02E-05
CUL4A	Q13619	1.88	0.00215
FXR2	P51116	1.88	3.08E-05
ALCAM	Q13740	1.87	0.000546
PDCD5	O14737	1.87	0.00585
PFDN2	Q9UHV9	1.87	0.00142
LAMTOR3	Q9UHA4-2	1.86	0.00626
ZC3HAV1	Q7Z2W4	1.86	0.00783
CARS	P49589	1.85	0.000213
PRPSAP1	Q14558	1.85	0.00261
STRN	O43815-2	1.84	0.000332
IMMT	Q16891-2	1.83	7.60E-05
M6PR	H0YGT2	1.83	0.00831
PRKCDBP	Q969G5	1.83	0.000896

GSK3B	P49841	1.82	0.000612
UNC45A	A0A1W2PNX8	1.82	0.0039
LAMTOR1	Q6IAA8	1.8	0.00102
WDR44	Q5JSH3-4	1.78	0.00393
DBNL	Q9UJU6	1.77	0.000856
GALK1	P51570	1.77	0.00291
SFXN1	Q9H9B4	1.77	0.000734
ATP6V1C1	P21283	1.76	0.000381
MT-CO2	P00403	1.76	9.58E-05
EEF1D	P29692-2	1.75	0.000316
ERGIC1	Q969X5-2	1.75	0.000905
CCDC80	Q76M96-2	1.74	0.000206
EIF3M	Q7L2H7	1.73	0.00746
PAICS	P22234	1.73	0.000102
PEA15	Q15121	1.73	0.000334
AAK1	A0A096LP25	1.72	0.000274
ARSB	P15848	1.72	0.00134
SPATS2L	B8ZZZ7	1.72	3.33E-05
PDIA6	Q15084-3	1.71	0.000393
ASAP2	O43150	1.7	0.00287
PNN	Q9H307	1.7	0.00329
SEC16A	A0A8I5KPG1	1.7	0.00186
GYG1	P46976-2	1.69	6.50E-05
HSPB2	Q16082	1.69	0.00704
TAGLN2	P37802	1.69	0.00025
UQCRC1	P31930	1.69	0.00166
BAG3	O95817	1.68	0.00106
TUBB4A	P04350	1.68	0.0106
CORO1C	Q9ULV4-3	1.67	0.00221
NPM1	P06748	1.67	0.00415
UAP1	Q16222-3	1.67	0.000117
NEU1	Q99519	1.66	0.00266
PLIN3	O60664	1.66	0.00336
CKAP5	Q14008-2	1.65	0.00796
STXBP1	A0A1B0GWF2	1.63	0.00113
BSG	P35613-2	1.62	0.000908
CLTB	P09497-2	1.62	0.000672
CNN2	B4DDF4	1.62	0.000675
PGM1	A0A3B3ITK7	1.62	0.00317
ARHGEF10	H0YAN8	1.61	0.00596

IFI16	Q16666-3	1.61	0.00684
PPM1G	O15355	1.61	0.0136
STAT1	P42224	1.61	0.000129
UBA1	P22314-2	1.61	0.000278
THY1	E9PIM6	1.6	0.00011
TWF2	Q6IBS0	1.6	0.000602
CCT2	P78371	1.59	0.00029
DBN1	Q16643	1.59	0.00025
EPB41L2	O43491	1.59	0.00107
HNRNPM	A0A087X0X3	1.59	0.000119
LAMP2	P13473-2	1.59	0.00949
CSRP2	Q16527	1.58	0.000413
HDGFRP2	Q7Z4V5-2	1.58	0.00308
DNAJB1	M0QXK0	1.57	0.000299
ENDOD1	O94919	1.57	0.00077
S100A10	P60903	1.57	0.000783
CCT6A	P40227	1.56	0.00286
DDX19A	I3L0H8	1.56	0.0013
NDRG1	Q92597	1.56	0.00143
PPP3CA	Q08209-3	1.56	0.015
SH3KBP1	Q5JPT2	1.56	0.013
COL5A2	P05997	1.54	0.00646
ARL6IP5	O75915	1.53	0.00165
PPP1R18	A0A0G2JHC2	1.53	0.00208
CMAS	Q8NFW8	1.52	0.0118
MYL12B	O14950	1.52	0.000426
C9orf89	Q96LW7-2	1.51	0.00294
SEMA7A	O75326	1.51	0.00074
TUBB3	Q13509	1.51	0.000672
HIST1H3A	P68431	-1.55	0.0144
PSPH	C9JBI3	-1.55	0.00195
ASMTL	O95671-3	-1.57	0.00237
CCAR1	Q8IX12-2	-1.57	0.00879
CRLF1	O75462	-1.57	0.00251
HSD17B12	Q53GQ0	-1.59	0.000201
SAR1A	Q9NR31	-1.59	0.000988
PSMB5	P28074	-1.63	0.00166
UBTF	E9PKP7	-1.64	0.00808
NAA25	Q14CX7-2	-1.66	0.011
SYNE3	Q6ZMZ3-2	-1.66	0.00151

NDUFA9	Q16795	-1.67	0.00323
RRAGD	Q9NQL2-2	-1.69	0.00311
JUP	P14923	-1.71	0.00756
SUN2	B0QY64	-1.71	0.000302
FXR1	E7EU85	-1.72	0.000139
TUBB8	Q3ZCM7	-1.72	0.00576
TPM4	P67936	-1.73	0.000104
ARPC5L	Q9BPX5	-1.76	0.0146
PRKG1	Q13976	-1.76	0.00216
RPS4X	P62701	-1.76	0.0123
SERBP1	Q8NC51	-1.77	0.009
COG2	B7Z2Y2	-1.79	0.00576
UQCRFS1	P47985	-1.79	0.00218
PSAT1	Q9Y617	-1.8	0.000223
RPL23A	P62750	-1.8	0.00177
TMED10	P49755	-1.8	0.000361
HIST1H4A	P62805	-1.81	0.000599
PRMT5	O14744-2	-1.81	0.00406
EIF4B	E7EX17	-1.84	0.000388
NDUFC2	O95298-2	-1.85	0.00288
BLMH	Q13867	-1.86	0.000498
COL6A3	P12111-2	-1.86	0.000102
BASP1	P80723	-1.87	0.00297
FKBP9	O95302	-1.87	0.00153
NQO1	P15559-2	-1.89	0.000525
RPS5	M0R0F0	-1.89	0.00413
SRSF3	P84103	-1.89	0.00113
PTGES3L-AARSD1	C9J5N1	-1.92	4.92E-05
PWP1	Q13610	-1.92	0.0033
RECQL	P46063	-1.92	0.00262
TMED4	Q7Z7H5-3	-1.93	0.000142
DCPS	Q96C86	-1.94	0.00128
FKBP7	Q9Y680-3	-1.94	0.00123
LMNB1	P20700	-1.94	9.98E-05
TJP1	A0A0G2JNH2	-1.96	0.00135
CDH13	P55290	-1.99	0.000522
CCDC47	Q96A33	-2.02	0.00808
SNX18	Q96RF0-2	-2.02	0.000751
SCPEP1	Q9HB40	-2.03	6.86E-05
YWHAE	P62258	-2.03	0.00024

SRRT	Q9BXP5-5	-2.07	0.0051
SF1	A0A7P0T9U7	-2.09	0.00103
DHX29	Q7Z478	-2.1	0.000199
RASA4B	F8W6L0	-2.11	0.00161
RSL1D1	J3QSV6	-2.12	0.000383
BZW1	C9IZ80	-2.15	0.00918
CTSL	P07711-3	-2.16	8.41E-05
PSMA7	O14818	-2.16	0.000164
RPL15	A0A2R8YEM3	-2.18	0.00263
UBLCP1	Q8WVY7	-2.2	0.000385
EIF1AX	P47813	-2.21	5.91E-06
SLC16A3	J3QQV2	-2.22	5.39E-05
LRRFIP2	Q9Y608-4	-2.24	0.00242
SZRD1	Q7Z422-2	-2.24	5.74E-05
ACSL3	A0A7P0TA76	-2.27	0.00529
ENAH	Q8N8S7-3	-2.27	0.00426
SNRPD1	J3QLI9	-2.28	0.00488
UBE2K	P61086	-2.28	0.00305
CRYZ	Q08257	-2.29	0.00464
RANBP1	P43487-2	-2.3	0.000726
IDE	A0A7I2V3E3	-2.31	6.96E-05
MAGOHB	F5H6N1	-2.31	0.0104
MAN2A1	Q16706	-2.33	0.000289
PRKAG1	P54619-3	-2.35	0.00763
HIST1H1E	P10412	-2.39	2.28E-05
ILVBL	A1L0T0	-2.4	0.00474
RPS11	P62280	-2.41	0.00247
FAU	E9PR30	-2.43	0.000207
COL15A1	A0A087X0K0	-2.45	0.00404
HTRA1	Q92743	-2.49	0.0109
MTX1	Q13505-3	-2.49	6.25E-06
PSMB6	P28072	-2.49	2.09E-05
HSDL2	Q6YN16-2	-2.54	6.62E-05
MGST3	O14880	-2.54	0.0146
NQO2	Q5TD07	-2.54	0.00577
PPT1	A0A2C9F2P4	-2.59	0.000345
RDX	A0A2R8Y5S7	-2.59	7.07E-05
RPS6	P62753	-2.63	2.51E-05
SSR2	P43308	-2.65	0.00891
WDR61	H0YN81	-2.7	6.06E-05

RPA1	P27694	-2.71	7.03E-05
UBE2I	H3BQQ9	-2.71	0.0115
AKR1C2	P52895	-2.72	3.39E-05
RPL35	P42766	-2.79	6.63E-05
NIPSNAP3A	Q9UFN0	-2.82	1.20E-05
LGMN	Q99538-3	-2.83	0.000155
NACA	F8W0W4	-2.83	0.000127
MTHFD2	A0A7I2V2U6	-2.87	0.00146
PSMA2	A0A024RA52	-2.87	0.0101
LUM	P51884	-2.97	0.00128
EWSR1	B0QYK0	-2.98	0.000228
NOP56	O00567	-2.99	7.79E-06
PEX11B	O96011	-2.99	2.05E-06
CD151	K4DIA7	-3.01	0.000345
SEC61A1	B4DR61	-3.03	9.06E-07
GAP43	P17677	-3.08	6.30E-06
SRP68	Q9UHB9-4	-3.09	8.62E-05
PSMA3	P25788-2	-3.1	3.11E-05
GSTM3	P21266	-3.12	0.00448
DDX21	A0A8I5KNP3	-3.14	6.13E-06
SELM	Q8WWX9	-3.16	0.000812
RPL13a	Q8J015	-3.24	5.71E-05
H2AFV	Q71UI9	-3.26	0.00389
ALDH3A2	P51648-2	-3.29	1.02E-05
RBBP7	E9PC52	-3.3	1.11E-05
ACAT2	Q9BWD1	-3.52	2.43E-05
COMP	G3XAP6	-3.59	0.00399
TMSB10	P63313	-3.59	0.000222
SDCBP	O00560-3	-3.61	0.000492
RPL26	P61254	-3.64	1.58E-06
RPS15	K7ELC2	-3.65	2.00E-05
XXYLT1	A0A140T9D0	-3.71	0.00101
B2M	P61769	-3.87	4.93E-06
ATP5D	P30049	-3.92	2.16E-06
PPIC	P45877	-3.94	1.54E-05
CD276	A0A0C4DGH0	-3.95	1.31E-06
RPLP1	P05386	-4.02	0.000912
ARF5	P84085	-4.04	4.50E-07
MAP1LC3B	H3BTL1	-4.29	7.26E-08
HIST2H3PS2	Q5TEC6	-4.33	0.00262

RBBP4	Q09028-4	-4.56	2.51E-07
EIF6	P56537	-4.58	0.000345
KRT6B	CON_P04259	-4.7	0.00328
RSU1	Q15404	-5.15	5.52E-08
UBE2D3	P61077-2	-5.8	3.52E-07
TMSB4X	P62328	-6.28	2.63E-08
BTF3	P20290-2	-6.61	6.64E-08

Supplementary S2

Table S2. All proteins involved in processes and functions of actin, ribosomal and neural. including fold change. With blue representing an increase in abundance in 3D compared to 2D and red representing a decrease in abundance in 3D compared to 2D.

Protein	Log2 Fold change	Functions	Involvement
DAB2	3.79	Actin cytoskeleton	actin
TAX1BP3	3.57	Actin cytoskeleton, Actin cytoskeleton	actin
BST1	3.52	Regulation of actin filament-based process, Regulation of actin cytoskeleton organization	actin
LPXN	3.26	Actin cytoskeleton, Actin cytoskeleton	actin
TAGLN	2.96	Actin binding, Actin filament binding, Actin-binding	actin
PDLIM2	2.91	Actin cytoskeleton organization, Actin filament-based process, Actin binding, Actin cytoskeleton, Actin filament bundle, Mixed, incl. actin filament organization, and filamentous actin	actin
TRIP6	2.85	Actin cytoskeleton, Actin filament bundle, Actin cytoskeleton, Actin filament bundle	actin
STK38L	2.29	Actin binding, Actin cytoskeleton, Actin cytoskeleton, Actin-binding	actin
SYNPO2	2.27	Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Actin binding, Actin cytoskeleton, Actin filament bundle, Actin cytoskeleton, Actin filament bundle, Actin-binding	actin
TNS1	2.13	Actin binding, Mixed, incl. actin filament organization, and filamentous actin, Mixed, incl. regulation of actin polymerization or depolymerization, and Calponin homology (CH) domain, RHO GTPases Activate WASPs and WAVES, and actin filament organization, Actin-binding	actin
ZYX	2.09	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Actin cytoskeleton, Actin filament bundle, Mixed, incl. actin filament organization, and filamentous actin, Mixed, incl. regulation of actin polymerization or depolymerization, and Calponin homology (CH) domain, RHO GTPases Activate WASPs and WAVES, and actin filament organization, Actin cytoskeleton, Actin filament bundle	actin
CAPZA1	2.03	Actin cytoskeleton organization, Actin filament-based process, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Regulation of actin filament depolymerization, Regulation of actin polymerization or depolymerization, Barbed-end actin filament capping, Negative regulation of actin filament depolymerization, Negative regulation of actin filament polymerization, Regulation of actin filament polymerization, Actin binding, Actin filament binding, Actin cytoskeleton, F-actin capping protein complex, Actin cytoskeleton, F-actin capping protein complex, Actin-binding	actin

PAWR	1.91	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Actin binding, Actin cytoskeleton, Actin cytoskeleton	actin
PRKCDBP	1.83	Actin cytoskeleton organization, Actin filament-based process Mixed, incl. actin filament organization, and filamentous actin, Mixed, incl. regulation of actin polymerization or depolymerization, and Calponin homology (CH) domain, RHO GTPases Activate WASPs and WAVES, and actin filament organization	actin
TAGLN2	1.69	Actin cytoskeleton organization, Actin filament-based process, Regulation of actin filament-based process, Actin binding, Actin cytoskeleton, Actin filament bundle, Actin cytoskeleton, Actin filament bundle, Actin-binding	actin
CNN2	1.62	Actin cytoskeleton organization, Actin filament-based process	actin
CSRP2	1.58	Actin binding, Actin-binding	actin
PPP1R18	1.53	Actin binding, Actin filament binding	actin
SYNE3	-1.66	Regulation of actin filament-based process, Actin cytoskeleton	actin
JUP	-1.71	Actin cytoskeleton organization, Actin filament-based process	actin
PRKG1	-1.76	Actin cytoskeleton organization, Actin filament-based process, Nervous system, Central nervous system, Brain, Forebrain	actin, neural
CSRP1	7.07	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Regulation of actin filament depolymerization, Regulation of actin polymerization or depolymerization, Actin filament depolymerization, Actin polymerization or depolymerization, Actin binding, Actin filament binding, Actin cytoskeleton, Cortical actin cytoskeleton, Mixed, incl. actin filament organization, and filamentous actin, Mixed, incl. regulation of actin polymerization or depolymerization, and Calponin homology (CH) domain, RHO GTPases Activate WASPs and WAVES, and actin filament organization, Actin-binding, Nervous system, Central nervous system, Brain	actin, neural
DSTN	4.72	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Regulation of actin polymerization or depolymerization, Actin polymerization or depolymerization, Regulation of actin filament polymerization, Actin binding, Actin filament binding, Actin cytoskeleton, Cortical actin cytoskeleton, Actin cytoskeleton, Positive regulation of axon extension, Neuron projection, Somatodendritic compartment, Dendrite, Postsynapse organization, Synapse, Postsynaptic density, Postsynapse	actin, neural
CTTN	4.23		

LIMCH1	4.09	Actin cytoskeleton organization, Actin filament-based process, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Actin binding, Actin cytoskeleton, Actin filament bundle, Actin cytoskeleton, Actin filament bundle, Nervous system, Central nervous system, Brain	actin, neural
MARCKS	3.74	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Actin binding, Actin filament binding, Actin cytoskeleton, Actin filament bundle, Actin cytoskeleton, Actin-binding, Nervous system, Central nervous system, Brain	actin, neural
PHPT1	3.53	Regulation of actin filament-based process, Regulation of actin cytoskeleton organization, Nervous system, Central nervous system, Brain	actin, neural
SORBS3	3.3	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Nervous system	actin, neural
ABR	3.23	Actin cytoskeleton organization, Actin filament-based process, Axon, Neuron projection, Somatodendritic compartment, Dendrite, Synapse, Postsynaptic density, Postsynapse, Glutamatergic synapse, Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex	actin, neural
CAP2	3.16	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Actin polymerization or depolymerization, Actin binding, Actin cytoskeleton, Cortical actin cytoskeleton, Mixed, incl. actin filament organization, and filamentous actin, Mixed, incl. regulation of actin polymerization or depolymerization, and Calponin homology (CH) domain, RHO GTPases Activate WASPs and WAVES, and actin filament organization, Axon guidance, Synapse, Postsynaptic density, Postsynapse, Nervous system development, Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Amygdala, Basal ganglion, Ganglion	actin, neural
ANXA6	3.08	Actin binding, Actin filament binding, Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Amygdala, Basal ganglion, Ganglion	actin, neural
PTK7	3.03	Actin cytoskeleton organization, Actin filament-based process, Wnt signaling pathway, planar cell polarity pathway	actin, neural
RAI14	2.87	Actin binding, Nervous system, Central nervous system, Brain	actin, neural

LIMA1	2.7	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Regulation of actin filament depolymerization, Regulation of actin polymerization or depolymerization, Negative regulation of actin filament depolymerization, Actin binding, Actin filament binding, Actin cytoskeleton, Actin filament bundle, Actin cytoskeleton, Actin filament bundle, Actin-binding, Nervous system, Central nervous system, Brain, Forebrain	actin, neural
ADD1	2.65	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Regulation of actin filament depolymerization, Regulation of actin polymerization or depolymerization, Barbed-end actin filament capping, Negative regulation of actin filament depolymerization, Negative regulation of actin filament polymerization, Regulation of actin filament polymerization, Actin binding, Actin filament binding, Actin cytoskeleton, F-actin capping protein complex, Actin cytoskeleton, F-actin capping protein complex, Actin-binding, Synapse, Postsynaptic density, Postsynapse, Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex	actin, neural
DLG1	2.56	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Regulation of actin polymerization or depolymerization, Regulation of actin filament polymerization, Axon, Axon guidance, Neuron projection, Postsynapse organization, Synapse, Postsynaptic density, Postsynapse, Glutamatergic synapse, Nervous system development, Nervous system, Central nervous system, Brain	actin, neural
SORBS2	2.42	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Actin cytoskeleton, Actin cytoskeleton, Nervous system, Central nervous system, Brain, Forebrain	actin, neural
PDLIM7	2.31	Actin cytoskeleton organization, Actin filament-based process, Actin binding, Actin cytoskeleton, Actin filament bundle, Mixed, incl. actin filament organization, and filamentous actin, Actin cytoskeleton, Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain	actin, neural

CAPZA2	2.21	Actin cytoskeleton organization, Actin filament-based process, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Regulation of actin filament depolymerization, Regulation of actin polymerization or depolymerization, Barbed-end actin filament capping, Negative regulation of actin filament depolymerization, Negative regulation of actin filament polymerization, Regulation of actin filament polymerization, Actin binding, Actin filament binding, Actin cytoskeleton, F-actin capping protein complex, Actin cytoskeleton, F-actin capping protein complex, Actin-binding, Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Amygdala, Basal ganglion, Ganglion	actin, neural
PPP1R9B	2.21	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Actin filament depolymerization, Actin polymerization or depolymerization, Actin binding, Actin filament binding, Actin cytoskeleton, Cortical actin cytoskeleton, Actin-binding, Filopodium, Filopodium, Growth cone, Axon, Distal axon, Neuron projection, Neuronal cell body, Somatodendritic compartment, Dendritic spine neck, Dendrite, Synapse, Postsynaptic density, Postsynapse, Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Amygdala, Basal ganglion, Ganglion	actin, neural
MYL9	2.18	Actin cytoskeleton, Actin filament bundle, Actin cytoskeleton, Axon guidance, Nervous system development	actin, neural
CAV1	2.15	Regulation of actin filament-based process, Nervous system, Central nervous system, Brain	actin, neural
PPM1F	2.07	Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Nervous system, Central nervous system, Brain	actin, neural
DCTN2	2.04	Actin cytoskeleton, Actin cytoskeleton, Growth cone, Axon, Distal axon, Neuron projection, Nervous system, Central nervous system, Brain	actin, neural
CFL1	2.02	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Regulation of actin filament depolymerization, Regulation of actin polymerization or depolymerization, Actin filament depolymerization, Actin polymerization or depolymerization, Actin binding, Actin filament binding, Actin cytoskeleton, Cortical actin cytoskeleton, Mixed, incl. actin filament organization, and filamentous actin, Mixed, incl. regulation of actin polymerization or depolymerization, and Calponin homology (CH) domain, Actin cytoskeleton, Actin filament bundle, Actin-binding, Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain, Brain cell line	actin, neural
CACNA2D1	1.93	Actin filament-based process, Nervous system, Central nervous system, Brain	actin, neural

DBNL	1.77	Actin cytoskeleton organization, Actin filament-based process, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Regulation of actin polymerization or depolymerization, Regulation of actin filament polymerization, Actin binding, Actin filament binding, Actin cytoskeleton, Cortical actin cytoskeleton, Actin cytoskeleton, Actin-binding, Positive regulation of axon extension, Neuron projection, Neuronal cell body, Somatodendritic compartment, Dendrite, Postsynapse organization, Synapse, Postsynaptic density, Postsynapse, Nervous system, Central nervous system, Brain	actin, neural
BAG3	1.68	Actin cytoskeleton, Actin filament bundle, Neuron projection, Nervous system, Central nervous system, Brain	actin, neural
CORO1C	1.67	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Actin binding, Actin filament binding, Actin cytoskeleton, Mixed, incl. actin filament organization, and filamentous actin, Mixed, incl. regulation of actin polymerization or depolymerization, and Calponin homology (CH) domain, RHO GTPases Activate WASPs and WAVES, and actin filament organization, Actin cytoskeleton, Actin-binding, Synapse, Nervous system, Central nervous system, Brain	actin, neural
ARHGEF10	1.61	Actin cytoskeleton organization, Actin filament-based process, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Nervous system, Central nervous system, Brain	actin, neural
TWF2	1.6	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Regulation of actin filament depolymerization, Regulation of actin polymerization or depolymerization, Barbed-end actin filament capping, Actin filament depolymerization, Negative regulation of actin filament depolymerization, Negative regulation of actin filament polymerization, Actin polymerization or depolymerization, Regulation of actin filament polymerization, Actin binding, Actin filament binding, Actin cytoskeleton, Mixed, incl. actin filament organization, and filamentous actin, Mixed, incl. regulation of actin polymerization or depolymerization, and Calponin homology (CH) domain, RHO GTPases Activate WASPs and WAVES, and actin filament organization, Actin-binding, Filopodium, Growth cone, Positive regulation of axon extension, Axon, Distal axon, Neuron projection	actin, neural

		Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Regulation of actin polymerization or depolymerization, Regulation of actin filament polymerization, Actin binding, Actin filament binding, Actin cytoskeleton, Cortical actin cytoskeleton, Mixed, incl. actin filament organization, and filamentous actin, Actin cytoskeleton, Actin-binding, Growth cone, Positive regulation of axon extension, Axon, Distal axon, Neuron projection, Somatodendritic compartment, Dendrite, Postsynapse organization, Synapse, Postsynaptic density, Postsynapse, Glutamatergic synapse, Nervous system, Central nervous system,	
DBN1	1.59	Brain	actin, neural
EPB41L2	1.59	Actin cytoskeleton organization, Actin filament-based process, Actin binding, Actin cytoskeleton, Cortical actin cytoskeleton, Actin cytoskeleton, Actin-binding, Nervous system, Central nervous system, Brain	actin, neural
ENDOD1	1.57	Mixed, incl. actin filament organization, and filamentous actin, Mixed, incl. regulation of actin polymerization or depolymerization, and Calponin homology (CH) domain, RHO GTPases Activate WASPs and WAVES, and actin filament organization, Nervous system, Central nervous system, Brain	actin, neural
S100A10	1.57	Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Nervous system, Central nervous system, Brain	actin, neural
SH3KBP1	1.56	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Axon guidance, Neuron projection, Synapse, Nervous system development	actin, neural
MYL12B	1.52	Actin cytoskeleton, Actin filament bundle, Actin cytoskeleton, Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain	actin, neural
SUN2	-1.71	Actin filament-based process, Nervous system, Central nervous system, Brain	actin, neural
TPM4	-1.73	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Actin binding, Actin filament binding, Actin cytoskeleton, Actin filament bundle, Actin cytoskeleton, Actin filament bundle, Actin-binding, Nervous system, Central nervous system, Brain	actin, neural

ARPC5L	-1.76	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Regulation of actin polymerization or depolymerization, Regulation of actin filament polymerization, Actin binding, Actin filament binding, Actin cytoskeleton, Mixed, incl. actin filament organization, and filamentous actin, Mixed, incl. regulation of actin polymerization or depolymerization, and Calponin homology (CH) domain, RHO GTPases Activate WASPs and WAVES, and actin filament organization, Actin cytoskeleton, Actin-binding, Synapse, Glutamatergic synapse	actin, neural
TJP1	-1.96	Actin cytoskeleton organization, Actin filament-based process, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Actin cytoskeleton, Actin cytoskeleton, Nervous system, Central nervous system, Brain	actin, neural
ENAH	-2.27	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Actin polymerization or depolymerization, Actin binding, Mixed, incl. actin filament organization, and filamentous actin, Mixed, incl. regulation of actin polymerization or depolymerization, and Calponin homology (CH) domain, RHO GTPases Activate WASPs and WAVES, and actin filament organization, Actin-binding, Filopodium, Axon guidance, Synapse, Nervous system development	actin, neural
RDX	-2.59	Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Regulation of actin filament depolymerization, Regulation of actin polymerization or depolymerization, Barbed-end actin filament capping, Negative regulation of actin filament depolymerization, Negative regulation of actin filament polymerization, Regulation of actin filament polymerization, Actin binding, Actin cytoskeleton, Cortical actin cytoskeleton, Actin cytoskeleton, Actin-binding, Filopodium, Filopodium, Axon guidance, Neuron projection, Nervous system development, Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex	actin, neural
TMSB10	-3.59	Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Regulation of actin polymerization or depolymerization, Negative regulation of actin filament polymerization, Regulation of actin filament polymerization, Actin binding, Actin-binding, Nervous system, Central nervous system, Brain	actin, neural
SDCBP	-3.61	Actin cytoskeleton organization, Actin filament-based process, Axon guidance, Synapse, Nervous system development, Nervous system, Central nervous system, Brain	actin, neural

		Actin cytoskeleton organization, Actin filament-based process, Actin filament organization, Regulation of actin filament-based process, Regulation of actin filament organization, Regulation of actin cytoskeleton organization, Regulation of actin polymerization or depolymerization, Negative regulation of actin filament polymerization, Regulation of actin filament polymerization, Actin binding, Mixed, incl. actin filament organization, and filamentous actin, Mixed, incl. regulation of actin polymerization or depolymerization, and Calponin homology (CH) domain, RHO GTPases Activate WASPs and WAVES, and actin filament organization, Actin-binding, Nervous system, Central nervous system, Brain	
TMSB4X	-6.28		actin, neural
CD63	4.7	Nervous system, Central nervous system, Brain	neural
		Axon, Distal axon, Axon guidance, Neuron projection, Somatodendritic compartment, Dendrite, Postsynapse organization, Synapse, Postsynaptic density, Postsynapse, Nervous system development, Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex	neural
PRNP	4.38		neural
MCFD2	4.33	Nervous system, Central nervous system, Brain	neural
FAF2	4.17	Nervous system, Central nervous system, Brain	neural
AKR7A2	3.77	Nervous system, Central nervous system, Brain	neural
AGFG1	3.71	Neuronal cell body, Somatodendritic compartment	neural
HMGA1	3.69	Nervous system, Central nervous system, Brain	neural
LMO7	3.59	Nervous system, Central nervous system, Brain	neural
		Axon, Neuron projection, Neuronal cell body, Somatodendritic compartment, Dendrite, Nervous system, Central nervous system, Brain, Brain cell line, Forebrain, Cerebral cortex	neural
SOD1	3.56		neural
GRPEL1	3.51	Nervous system, Central nervous system, Brain	neural
		Neuron projection, Postsynapse organization, Synapse, Postsynaptic density, Postsynapse, Nervous system, Central nervous system, Brain	neural
CDH2	3.41		neural
COL1A1	3.28	Nervous system, Central nervous system, Brain, Brain cell line	neural
SH3GLB1	3.2	Nervous system, Central nervous system, Brain	neural
		Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain, Wnt signaling pathway, planar cell polarity pathway	neural
PSMD4	3.18		neural
		Positive regulation of axon extension, Axon, Neuron projection, Neuronal cell body, Somatodendritic compartment, Nervous system, Central nervous system, Brain	neural
GDI1	3.13		neural
MAP4K4	3.08	Nervous system, Central nervous system, Brain	neural
RAB1A	3.08	Nervous system, Central nervous system, Brain	neural
RAPH1	3.05	Filopodium, Filopodium	neural
		Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex	neural
PDHB	3.04		neural
ACP2	3.03	Nervous system, Central nervous system, Brain, Forebrain	neural
		Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Basal ganglion, Ganglion	neural
CALM2	3.01		neural

GRAMD3	2.98	Nervous system, Central nervous system, Brain	neural
		Neuron projection, Neuronal cell body, Somatodendritic compartment, Synapse, Glutamatergic synapse, Nervous system,	
ATP2B1	2.96	Central nervous system, Brain, Forebrain, Cerebral cortex	neural
UBQLN2	2.93	Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Amygdala, Basal ganglion, Ganglion	neural
CERCAM	2.89	Nervous system, Central nervous system, Brain, Brain cell line	neural
		Neuronal cell body, Somatodendritic compartment, Synapse,	
AKAP12	2.88	Nervous system, Central nervous system, Brain	neural
		Nervous system, Central nervous system, Brain, Forebrain,	
TSNAX	2.85	Cerebral cortex, Basal ganglion, Ganglion	neural
PRKRA	2.81	Nervous system, Central nervous system, Brain	neural
ENG	2.79	Nervous system, Central nervous system, Brain	neural
		Neuron projection, Synapse, Nervous system, Central nervous	
VAMP3	2.78	system, Brain	neural
		Nervous system, Central nervous system, Brain, Forebrain,	
AHNAK2	2.77	Cerebral cortex	neural
IFITM3	2.72	Nervous system, Central nervous system, Brain	neural
		Growth cone, Axon, Distal axon, Neuron projection, Neuronal cell	
DYNLT1	2.71	body, Somatodendritic compartment, Nervous system, Central	
PAFAH1B2	2.71	nervous system, Brain	neural
HN1	2.69	Nervous system, Central nervous system, Brain	neural
ATP5H	2.67	Nervous system, Central nervous system, Brain	neural
ZMPSTE24	2.65	Nervous system, Central nervous system, Brain	neural
		Axon guidance, Synapse, Postsynapse, Presynaptic endocytic zone	
		membrane, Postsynaptic endocytic zone cytoplasmic component,	
CLTA	2.64	Nervous system development, Nervous system, Central nervous	
		system, Brain, Forebrain, Cerebral cortex	neural
		Neuronal cell body, Somatodendritic compartment, Synapse,	
PICALM	2.64	Postsynapse, Presynaptic endocytic zone membrane, Nervous	
CACYBP	2.6	system, Central nervous system, Brain	neural
SLC30A1	2.6	Neuron projection, Nervous system, Central nervous system, Brain	neural
TPD52L2	2.6	Synapse, Postsynaptic density, Postsynapse	neural
		Nervous system, Central nervous system, Brain	neural
		Axon, Neuron projection, Somatodendritic compartment,	
BAG2	2.58	Dendrite, Nervous system	neural
GCC1	2.56	Nervous system, Central nervous system	neural
		Axon, Distal axon, Axon guidance, Neuron projection, Synapse,	
ITGA2	2.55	Nervous system development	neural
HERC4	2.53	Nervous system, Central nervous system, Brain	neural
		Synapse, Glutamatergic synapse, Nervous system, Central nervous	
CTBP1	2.5	system, Brain	neural
		Axon, Neuron projection, Nervous system, Central nervous	
HSPB1	2.5	system, Brain	neural
ETFA	2.47	Brain cell line	neural

STAT3	2.44	Synapse, Postsynaptic density, Postsynapse, Glutamatergic synapse, Nervous system, Central nervous system, Brain	neural
TOLLIP	2.44	Nervous system, Central nervous system, Brain	neural
PSMD5	2.42	Axon guidance, Nervous system development, Wnt signaling pathway, planar cell polarity pathway	neural
SCYL1	2.42	Nervous system, Central nervous system, Brain, Forebrain	neural
BOLA2	2.4	Nervous system, Central nervous system, Brain	neural
HADHA	2.4	Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex	neural
STX4	2.4	Neuron projection, Somatodendritic compartment, Dendrite, Synapse, Postsynapse, Glutamatergic synapse	neural
PRRC1	2.39	Nervous system, Central nervous system	neural
ZNF207	2.37	Nervous system, Central nervous system, Brain	neural
FKBP1A	2.35	Nervous system, Central nervous system, Brain	neural
KIAA1715	2.34	Nervous system, Central nervous system, Brain	neural
CTNND1	2.33	Growth cone, Axon, Distal axon, Neuron projection, Somatodendritic compartment, Dendrite, Synapse, Postsynaptic density, Postsynapse, Glutamatergic synapse, Nervous system, Central nervous system, Brain	neural
HSPE1	2.33	Nervous system, Central nervous system, Brain	neural
SPAG9	2.33	Nervous system, Central nervous system, Brain	neural
CMPK1	2.32	Nervous system, Central nervous system, Brain, Forebrain	neural
AP2A1	2.31	Filopodium, Axon guidance, Nervous system development, Wnt signaling pathway, planar cell polarity pathway	neural
FTL	2.31	Nervous system, Central nervous system, Brain	neural
BANF1	2.3	Nervous system, Central nervous system, Brain	neural
SLC12A4	2.28	Synapse, Nervous system, Central nervous system, Brain	neural
RAB5C	2.27	Nervous system, Central nervous system, Brain	neural
C1orf123	2.25	Nervous system, Central nervous system, Brain	neural
TBCD	2.24	Nervous system, Central nervous system, Brain	neural
AP2M1	2.23	Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain, Wnt signaling pathway, planar cell polarity pathway	neural
GSS	2.23	Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Basal ganglion, Ganglion	neural
COPS4	2.21	Synapse, Nervous system, Central nervous system, Brain	neural
RIC8A	2.21	Nervous system, Central nervous system, Brain	neural
PDXDC1	2.2	Nervous system, Central nervous system, Brain	neural
PHLDB1	2.2	Nervous system, Central nervous system, Brain	neural
UBE2Z	2.2	Nervous system, Central nervous system, Brain	neural
NUDC	2.19	Nervous system, Central nervous system, Brain	neural
TGM2	2.18	Nervous system, Central nervous system, Brain	neural
YKT6	2.16	Neuron projection, Neuronal cell body, Somatodendritic compartment, Dendrite, Nervous system	neural
AK4	2.11	Nervous system, Central nervous system, Brain	neural
ARFGAP2	2.09	Nervous system, Central nervous system, Brain	neural

EEF1B2	2.09	Nervous system, Central nervous system, Brain	neural
		Nervous system, Central nervous system, Brain, Forebrain,	
COPS3	2.08	Cerebral cortex	neural
MAVS	2.08	Nervous system, Central nervous system, Brain	neural
SEC24A	2.08	Nervous system, Central nervous system, Brain	neural
GLS	2.07	Synapse, Nervous system, Central nervous system, Brain	neural
ECH1	2.06	Nervous system, Central nervous system, Brain	neural
IPO5	2.04	Nervous system, Central nervous system, Brain	neural
RAB31	2.04	Nervous system, Central nervous system, Brain	neural
		Neuron projection, Neuronal cell body, Somatodendritic compartment, Dendrite, Synapse, Postsynapse, Glutamatergic	
PURA	2.03	synapse	neural
EHD1	2	Nervous system, Central nervous system, Brain	neural
EXOC2	2	Nervous system, Central nervous system, Brain	neural
		Nervous system development, Nervous system, Central nervous	
YAP1	1.99	system, Brain, Forebrain	neural
TMPO	1.98	Nervous system, Central nervous system, Brain	neural
SNAP23	1.95	Neuron projection, Synapse	neural
CYBRD1	1.94	Nervous system, Central nervous system, Brain	neural
SCAMP1	1.94	Synapse	neural
C14orf166	1.93	Nervous system, Central nervous system, Brain	neural
		Nervous system, Central nervous system, Brain, Forebrain,	
TMEM214	1.93	Cerebral cortex, Amygdala, Basal ganglion, Ganglion	neural
		Nervous system, Central nervous system, Brain, Forebrain,	
PPME1	1.89	Cerebral cortex, Basal ganglion, Ganglion	neural
CD81	1.88	Nervous system, Central nervous system, Brain	neural
		Axon, Axon guidance, Neuron projection, Neuronal cell body, Somatodendritic compartment, Dendrite, Nervous system	
ALCAM	1.87	development, Nervous system, Central nervous system, Brain	neural
CARS	1.85	Nervous system, Central nervous system, Brain	neural
PRPSAP1	1.85	Nervous system, Central nervous system, Brain	neural
		Neuron projection, Neuronal cell body, Somatodendritic compartment, Dendrite, Synapse, Postsynaptic density,	
STRN	1.84	Postsynapse	neural
IMMT	1.83	Nervous system, Central nervous system, Brain, Brain cell line	neural
M6PR	1.83	Nervous system, Central nervous system, Brain	neural
		Axon, Axon guidance, Neuron projection, Somatodendritic compartment, Dendrite, Synapse, Postsynapse, Glutamatergic	
GSK3B	1.82	synapse, Nervous system development	neural
UNC45A	1.82	Nervous system, Central nervous system, Brain	neural
WDR44	1.78	Nervous system, Central nervous system, Brain	neural
GALK1	1.77	Nervous system, Central nervous system, Brain	neural
ATP6V1C1	1.76	Nervous system, Central nervous system, Brain	neural
EEF1D	1.75	Nervous system, Central nervous system, Brain	neural
ERGIC1	1.75	Nervous system, Central nervous system, Brain, Forebrain	neural
CCDC80	1.74	Nervous system, Central nervous system, Brain	neural

PAICS	1.73	Nervous system, Central nervous system, Brain	neural
PEA15	1.73	Nervous system, Central nervous system, Brain, Brain cell line	neural
AAK1	1.72	Axon, Distal axon, Neuron projection, Synapse, Nervous system, Central nervous system, Brain	neural
SPATS2L	1.72	Nervous system, Central nervous system, Brain, Ganglion	neural
PDIA6	1.71	Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Amygdala, Basal ganglion, Ganglion	neural
ASAP2	1.7	Nervous system, Central nervous system, Brain	neural
SEC16A	1.7	Nervous system, Central nervous system, Brain	neural
UQCRC1	1.69	Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Basal ganglion, Ganglion	neural
TUBB4A	1.68	Axon, Axon guidance, Neuron projection, Neuronal cell body, Somatodendritic compartment, Nervous system development, Nervous system, Central nervous system, Brain	neural
NEU1	1.66	Nervous system, Central nervous system, Brain	neural
STXBP1	1.63	Axon, Neuron projection, Synapse, Postsynapse, Glutamatergic synapse, Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex	neural
BSG	1.62	Axon, Neuron projection, Nervous system, Central nervous system, Brain	neural
CLTB	1.62	Axon guidance, Synapse, Postsynapse, Presynaptic endocytic zone membrane, Postsynaptic endocytic zone cytoplasmic component, Nervous system development	neural
PGM1	1.62	Nervous system, Central nervous system, Brain, Forebrain	neural
IFI16	1.61	Nervous system, Central nervous system, Brain, Forebrain	neural
PPM1G	1.61	Nervous system, Central nervous system, Brain	neural
STAT1	1.61	Axon, Neuron projection, Somatodendritic compartment, Dendrite, Nervous system, Central nervous system, Brain	neural
UBA1	1.61	Nervous system, Central nervous system, Brain	neural
THY1	1.6	Growth cone, Axon, Distal axon, Neuron projection, Neuronal cell body, Somatodendritic compartment, Dendrite, Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Amygdala, Basal ganglion, Ganglion	neural
CCT2	1.59	Nervous system, Central nervous system, Brain, Brain cell line, Forebrain, Cerebral cortex, Amygdala, Basal ganglion, Ganglion	neural
LAMP2	1.59	Nervous system, Central nervous system, Brain	neural
DNAJB1	1.57	Neuron projection, Neuronal cell body, Somatodendritic compartment, Dendrite, Synapse, Postsynaptic density, Postsynapse, Glutamatergic synapse, Nervous system, Central nervous system, Brain	neural
CCT6A	1.56	Nervous system, Central nervous system, Brain	neural
NDRG1	1.56	Postsynapse organization, Synapse, Glutamatergic synapse, Nervous system, Central nervous system, Brain, Brain cell line	neural

		Neuron projection, Somatodendritic compartment, Dendrite, Synapse, Postsynapse, Glutamatergic synapse, Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex,	
PPP3CA	1.56	Amygdala, Basal ganglion, Ganglion	neural
COL5A2	1.54	Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain	neural
ARL6IP5	1.53	Nervous system, Central nervous system, Brain	neural
SEMA7A	1.51	Positive regulation of axon extension, Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex	neural
TUBB3	1.51	Filopodium, Filopodium, Growth cone, Axon, Distal axon, Axon guidance, Neuron projection, Somatodendritic compartment, Dendrite, Nervous system development, Brain cell line	neural
HIST1H3A	-1.55	Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Basal ganglion, Ganglion	neural
PSPH	-1.55	Neuron projection	neural
ASMTL	-1.57	Nervous system, Central nervous system, Brain	neural
CCAR1	-1.57	Nervous system, Central nervous system, Brain	neural
HSD17B12	-1.59	Nervous system, Central nervous system, Brain	neural
PSMB5	-1.63	Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain, Forebrain, Wnt signaling pathway, planar cell polarity pathway	neural
RRAGD	-1.69	Nervous system, Central nervous system, Brain	neural
TUBB8	-1.72	Axon guidance, Nervous system development	neural
SERBP1	-1.77	Nervous system, Central nervous system, Brain	neural
UQCRFS1	-1.79	Nervous system, Central nervous system, Brain	neural
PSAT1	-1.8	Nervous system, Central nervous system, Brain	neural
TMED10	-1.8	Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Amygdala, Basal ganglion, Ganglion	neural
HIST1H4A	-1.81	Nervous system, Central nervous system, Brain	neural
BLMH	-1.86	Nervous system, Central nervous system, Brain	neural
COL6A3	-1.86	Axon guidance, Nervous system development	neural
BASP1	-1.87	Growth cone, Axon, Distal axon, Neuron projection, Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Basal ganglion, Ganglion	neural
FKBP9	-1.87	Nervous system	neural
NQO1	-1.89	Neuron projection, Neuronal cell body, Somatodendritic compartment, Dendrite, Synapse, Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Basal ganglion, Ganglion	neural
SRSF3	-1.89	Nervous system, Central nervous system, Brain	neural
TMED4	-1.93	Nervous system, Central nervous system, Brain	neural
FKBP7	-1.94	Nervous system, Central nervous system, Brain	neural
LMNB1	-1.94	Nervous system, Central nervous system, Brain, Brain cell line	neural
CDH13	-1.99	Neuron projection, Synapse, Nervous system, Central nervous system, Brain	neural

YWHAE	-2.03	Growth cone, Axon, Distal axon, Neuron projection, Synapse, Glutamatergic synapse, Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Basal ganglion, Ganglion	neural
BZW1	-2.15	Nervous system, Central nervous system, Brain	neural
PSMA7	-2.16	Axon guidance, Synapse, Postsynapse, Nervous system development, Nervous system, Central nervous system, Brain, Wnt signaling pathway, planar cell polarity pathway	neural
UBLCP1	-2.2	Nervous system, Central nervous system, Brain	neural
SLC16A3	-2.22	Synapse, Postsynaptic density, Postsynapse, Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex	neural
ACSL3	-2.27	Nervous system, Central nervous system, Brain	neural
UBE2K	-2.28	Filopodium, Nervous system, Central nervous system, Brain	neural
CRYZ	-2.29	Nervous system, Central nervous system, Brain, Forebrain	neural
ILVBL	-2.4	Nervous system, Central nervous system, Brain	neural
PSMB6	-2.49	Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain, Wnt signaling pathway, planar cell polarity pathway	neural
HSDL2	-2.54	Nervous system, Central nervous system, Brain	neural
MGST3	-2.54	Nervous system, Central nervous system, Brain	neural
NQO2	-2.54	Nervous system, Central nervous system, Brain	neural
PPT1	-2.59	Axon, Neuron projection, Neuronal cell body, Somatodendritic compartment, Dendrite, Synapse, Nervous system, Central nervous system, Brain	neural
SSR2	-2.65	Nervous system, Central nervous system, Brain	neural
RPA1	-2.71	Nervous system, Central nervous system, Brain	neural
UBE2I	-2.71	Nervous system, Central nervous system, Brain	neural
NIPSNAP3A	-2.82	Nervous system, Central nervous system, Brain	neural
LGMIN	-2.83	Postsynapse organization	neural
NACA	-2.83	Nervous system, Central nervous system, Brain	neural
MTHFD2	-2.87	Nervous system, Central nervous system, Brain	neural
EWSR1	-2.98	Nervous system, Central nervous system, Brain	neural
GAP43	-3.08	Filopodium, Filopodium, Growth cone, Axon, Distal axon, Axon guidance, Neuron projection, Neuronal cell body, Somatodendritic compartment, Dendrite, Synapse, Postsynaptic density, Postsynapse, Nervous system development, Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Basal ganglion, Ganglion	neural
PSMA3	-3.1	Axon guidance, Synapse, Nervous system development, Wnt signaling pathway, planar cell polarity pathway	neural
GSTM3	-3.12	Nervous system, Central nervous system, Brain	neural
H2AFV	-3.26	Nervous system, Central nervous system, Brain	neural
ACAT2	-3.52	Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Amygdala, Basal ganglion, Ganglion	neural
XXYLT1	-3.71	Nervous system	neural
B2M	-3.87	Nervous system, Central nervous system, Brain	neural
ATP5D	-3.92	Nervous system, Central nervous system, Brain	neural

ARF5	-4.04	Nervous system, Central nervous system, Brain	neural
MAP1LC3B	-4.29	Nervous system, Central nervous system, Brain	neural
RBBP4	-4.56	Nervous system, Central nervous system, Brain	neural
RSU1	-5.15	Nervous system, Central nervous system, Brain, Brain cell line, Forebrain	neural
UBE2D3	-5.8	Nervous system, Central nervous system, Brain	neural
EIF4H	3.32	Nervous system, Central nervous system, Brain, Ribonucleoprotein complex, GTP hydrolysis and joining of the 60S ribosomal subunit, Ribosomal scanning and start codon recognition	neural, ribosome
CARHSP1	3.28	Nervous system, Central nervous system, Brain, Cytoplasmic ribonucleoprotein granule	neural, ribosome
KLC1	3.21	Growth cone, Axon, Distal axon, Neuron projection, Nervous system, Central nervous system, Brain, Ribonucleoprotein complex subunit organization	neural, ribosome
EIF3E	3.15	Nervous system, Central nervous system, Brain, Ribonucleoprotein complex biogenesis, Ribonucleoprotein complex subunit organization, Ribonucleoprotein complex assembly, Ribonucleoprotein complex, GTP hydrolysis and joining of the 60S ribosomal subunit, Ribosomal scanning and start codon recognition, Ribonucleoprotein complex	neural, ribosome
KHSRP	3.09	Nervous system, Central nervous system, Brain, Brain cell line, Cytoplasmic ribonucleoprotein granule	neural, ribosome
SQSTM1	2.79	Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Basal ganglion, Ganglion, Cytoplasmic ribonucleoprotein granule	neural, ribosome
PCBP1	2.64	Nervous system, Central nervous system, Brain, Cytoplasmic ribonucleoprotein granule, Ribonucleoprotein	neural, ribosome
RPL24	2.58	Axon guidance, Nervous system development, Ribosome assembly, Ribonucleoprotein complex biogenesis, Ribonucleoprotein complex subunit organization, Ribonucleoprotein complex assembly, Ribosome biogenesis, Structural constituent of ribosome, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic large ribosomal subunit, Large ribosomal subunit, Cytoplasmic ribosomal proteins, Cytoplasmic ribosomal proteins, Cytoplasmic ribosomal proteins, Ribosome, GTP hydrolysis and joining of the 60S ribosomal subunit, Cytoplasmic ribosomal proteins, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic large ribosomal subunit, Large ribosomal subunit, Ribonucleoprotein, Ribosomal protein	neural, ribosome
UBAP2L	2.21	Nervous system, Central nervous system, Brain, Cytoplasmic ribonucleoprotein granule	neural, ribosome

		Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain, Ribosome assembly, Ribonucleoprotein complex biogenesis, Ribonucleoprotein complex subunit organization, Ribonucleoprotein complex assembly, Ribosome biogenesis, Structural constituent of ribosome, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic small ribosomal subunit, Cytoplasmic ribosomal proteins, Cytoplasmic ribosomal proteins, Cytoplasmic ribosomal proteins, Ribosome, GTP hydrolysis and joining of the 60S ribosomal subunit, Ribosomal scanning and start codon recognition, Cytoplasmic ribosomal proteins, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic small ribosomal subunit, Ribonucleoprotein,	
RPS10	2.18	Ribosomal protein	neural, ribosome
API5	2.17	Nervous system, Central nervous system, Brain, Ribonucleoprotein complex, Ribonucleoprotein complex	neural, ribosome
CIRBP	2.14	Nervous system, Central nervous system, Brain, Ribonucleoprotein complex, Cytoplasmic ribonucleoprotein granule	neural, ribosome
HSD17B10	2.14	Nervous system, Central nervous system, Brain, Ribonucleoprotein complex, Ribonucleoprotein complex	neural, ribosome
RBM3	2.14	Neuron projection, Somatodendritic compartment, Dendrite, Nervous system, Central nervous system, Brain, Ribonucleoprotein complex binding, Ribonucleoprotein complex	neural, ribosome
CUL4B	2.1	Nervous system, Central nervous system, Brain, Ribonucleoprotein complex biogenesis, Ribosome biogenesis	neural, ribosome
MRPL50	1.93	Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Large ribosomal subunit, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Large ribosomal subunit, Ribonucleoprotein, Ribosomal protein	neural, ribosome
EIF3F	1.9	Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Amygdala, Basal ganglion, Ganglion, Ribonucleoprotein complex biogenesis, Ribonucleoprotein complex subunit organization, Ribonucleoprotein complex assembly, Ribonucleoprotein complex, GTP hydrolysis and joining of the 60S ribosomal subunit, Ribosomal scanning and start codon recognition, Ribonucleoprotein complex	neural, ribosome
FXR2	1.88	Filopodium, Filopodium, Growth cone, Axon, Distal axon, Neuron projection, Neuronal cell body, Somatodendritic compartment, Dendritic spine neck, Dendrite, Synapse, Postsynaptic density, Postsynapse, Nervous system, Central nervous system, Brain, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic large ribosomal subunit, Cytoplasmic ribonucleoprotein granule, Large ribosomal subunit, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic large ribosomal subunit, Large ribosomal subunit	neural, ribosome

EIF3M	1.73	Nervous system, Central nervous system, Brain, Forebrain, Ribonucleoprotein complex biogenesis, Ribonucleoprotein complex subunit organization, Ribonucleoprotein complex assembly, Ribonucleoprotein complex, GTP hydrolysis and joining of the 60S ribosomal subunit, Ribosomal scanning and start codon recognition	neural, ribosome
PNN	1.7	Nervous system, Central nervous system, Brain, Ribonucleoprotein complex, Ribonucleoprotein complex	neural, ribosome
NPM1	1.67	Nervous system, Central nervous system, Brain, Ribosome assembly, Ribonucleoprotein complex biogenesis, Ribosome biogenesis, Ribonucleoprotein complex binding, Ribonucleoprotein complex, Ribonucleoprotein complex	neural, ribosome
CKAP5	1.65	Nervous system, Ribonucleoprotein complex binding	neural, ribosome
HNRNPM	1.59	Nervous system, Central nervous system, Brain, Ribonucleoprotein complex, Ribonucleoprotein complex, Ribonucleoprotein	neural, ribosome
DDX19A	1.56	Nervous system, Central nervous system, Brain, Cytoplasmic ribonucleoprotein granule	neural, ribosome
FXR1	-1.72	Filopodium, Filopodium, Growth cone, Axon, Distal axon, Neuron projection, Neuronal cell body, Somatodendritic compartment, Dendritic spine neck, Dendrite, Synapse, Postsynaptic density, Postsynapse, Glutamatergic synapse, Nervous system, Central nervous system, Brain, Ribonucleoprotein complex, Cytoplasmic ribonucleoprotein granule, Ribonucleoprotein complex	neural, ribosome
RPS4X	-1.76	Axon guidance, Synapse, Nervous system development, Nervous system, Central nervous system, Brain, Structural constituent of ribosome, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic small ribosomal subunit, Cytoplasmic ribonucleoprotein granule, Cytoplasmic ribosomal proteins, Cytoplasmic ribosomal proteins, Cytoplasmic ribosomal proteins, Ribosome, GTP hydrolysis and joining of the 60S ribosomal subunit, Ribosomal scanning and start codon recognition, Cytoplasmic ribosomal proteins, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic small ribosomal subunit, Ribonucleoprotein, Ribosomal protein	neural, ribosome

RPL23A	-1.8	Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain, Ribosome assembly, Ribonucleoprotein complex biogenesis, Ribonucleoprotein complex subunit organization, Ribonucleoprotein complex assembly, Ribosome biogenesis, Structural constituent of ribosome, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic large ribosomal subunit, Large ribosomal subunit, Cytoplasmic ribosomal proteins, Cytoplasmic ribosomal proteins, Ribosome, GTP hydrolysis and joining of the 60S ribosomal subunit, Cytoplasmic ribosomal proteins, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic large ribosomal subunit, Large ribosomal subunit, Ribonucleoprotein, Ribosomal protein	neural, ribosome
PRMT5	-1.81	Nervous system, Central nervous system, Brain, Ribonucleoprotein complex biogenesis, Ribonucleoprotein complex subunit organization, Ribonucleoprotein complex assembly, Ribonucleoprotein complex binding	neural, ribosome
EIF4B	-1.84	Nervous system, Central nervous system, Brain, Ribonucleoprotein complex, GTP hydrolysis and joining of the 60S ribosomal subunit, Ribosomal scanning and start codon recognition, Ribonucleoprotein complex	neural, ribosome
RPS5	-1.89	Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain, Ribosome assembly, Ribonucleoprotein complex biogenesis, Ribonucleoprotein complex subunit organization, Ribonucleoprotein complex assembly, Ribosome biogenesis, Structural constituent of ribosome, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic small ribosomal subunit, Cytoplasmic ribosomal proteins, Cytoplasmic ribosomal proteins, Cytoplasmic ribosomal proteins, Ribosome, GTP hydrolysis and joining of the 60S ribosomal subunit, Ribosomal scanning and start codon recognition, Cytoplasmic ribosomal proteins, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic small ribosomal subunit, Ribonucleoprotein, Ribosomal protein	neural, ribosome
SRRT	-2.07	Nervous system, Central nervous system, Brain, Forebrain, Ribonucleoprotein complex	neural, ribosome
SF1	-2.09	Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Ribonucleoprotein complex biogenesis, Ribonucleoprotein complex subunit organization, Ribonucleoprotein complex assembly, Ribonucleoprotein complex, Ribosome, Ribonucleoprotein complex, Ribosome	neural, ribosome

DHX29	-2.1	Nervous system, Central nervous system, Brain, Ribosome assembly, Ribonucleoprotein complex biogenesis, Ribonucleoprotein complex subunit organization, Ribonucleoprotein complex assembly, Ribosome biogenesis, Ribonucleoprotein complex binding, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic small ribosomal subunit, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic small ribosomal subunit	neural, ribosome
RSL1D1	-2.12	Nervous system, Central nervous system, Brain, Forebrain, Cerebral cortex, Basal ganglion, Ganglion, Ribonucleoprotein complex biogenesis, Ribosome biogenesis, Ribonucleoprotein complex, Ribonucleoprotein complex	neural, ribosome
RPL15	-2.18	Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain, Structural constituent of ribosome, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic large ribosomal subunit, Large ribosomal subunit, Cytoplasmic ribosomal proteins, Cytoplasmic ribosomal proteins, Cytoplasmic ribosomal proteins, Ribosome, GTP hydrolysis and joining of the 60S ribosomal subunit, Cytoplasmic ribosomal proteins, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic large ribosomal subunit, Large ribosomal subunit, Ribonucleoprotein, Ribosomal protein	neural, ribosome
EIF1AX	-2.21	Nervous system, Central nervous system, Brain, Forebrain, GTP hydrolysis and joining of the 60S ribosomal subunit, Ribosomal scanning and start codon recognition	neural, ribosome
MAGOHB	-2.31	Axon guidance, Neuronal cell body, Somatodendritic compartment, Nervous system development, Nervous system, Central nervous system, Brain, Ribonucleoprotein complex, Ribonucleoprotein complex	neural, ribosome
RPS11	-2.41	Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain, Structural constituent of ribosome, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic small ribosomal subunit, Cytoplasmic ribosomal proteins, Ribosome, GTP hydrolysis and joining of the 60S ribosomal subunit, Ribosomal scanning and start codon recognition, Cytoplasmic ribosomal proteins, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic small ribosomal subunit, Ribonucleoprotein, Ribosomal protein	neural, ribosome

RPS6	-2.63	Axon guidance, Neuron projection, Somatodendritic compartment, Dendrite, Nervous system development, Nervous system, Central nervous system, Brain, Ribonucleoprotein complex biogenesis, Ribosome biogenesis, Structural constituent of ribosome, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic small ribosomal subunit, Cytoplasmic ribonucleoprotein granule, Cytoplasmic ribosomal proteins, Ribosome, GTP hydrolysis and joining of the 60S ribosomal subunit, Ribosomal scanning and start codon recognition, Cytoplasmic ribosomal proteins, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic small ribosomal subunit, Ribonucleoprotein, Ribosomal protein	neural, ribosome
RPL35	-2.79	Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain, Ribonucleoprotein complex biogenesis, Ribosome biogenesis, Structural constituent of ribosome, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic large ribosomal subunit, Large ribosomal subunit, Cytoplasmic ribosomal proteins, Ribosome, GTP hydrolysis and joining of the 60S ribosomal subunit, Cytoplasmic ribosomal proteins, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic large ribosomal subunit, Large ribosomal subunit, Ribonucleoprotein, Ribosomal protein	neural, ribosome
PSMA2	-2.87	Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain, Wnt signaling pathway, planar cell polarity pathway, Cytoplasmic ribonucleoprotein granule	neural, ribosome
NOP56	-2.99	Nervous system, Central nervous system, Brain, Ribonucleoprotein complex biogenesis, Ribosome biogenesis, Ribonucleoprotein complex, Ribonucleoprotein complex, Ribonucleoprotein	neural, ribosome
SEC61A1	-3.03	Nervous system, Central nervous system, Brain, Ribonucleoprotein complex binding, Ribonucleoprotein complex	neural, ribosome
RPL13A	-3.24	Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain, Structural constituent of ribosome, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic large ribosomal subunit, Large ribosomal subunit, Ribosome, GTP hydrolysis and joining of the 60S ribosomal subunit, Cytoplasmic ribosomal proteins, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic large ribosomal subunit, Large ribosomal subunit, Ribonucleoprotein, Ribosomal protein	neural, ribosome

RPL26	-3.64	Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain, Ribonucleoprotein complex biogenesis, Ribosome biogenesis, Structural constituent of ribosome, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic large ribosomal subunit, Large ribosomal subunit, Cytoplasmic ribosomal proteins, Cytoplasmic ribosomal proteins, Cytoplasmic ribosomal proteins, Ribosome, GTP hydrolysis and joining of the 60S ribosomal subunit, Cytoplasmic ribosomal proteins, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic large ribosomal subunit, Large ribosomal subunit, Ribonucleoprotein, Ribosomal protein	neural, ribosome
RPS15	-3.65	Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain, Ribosome assembly, Ribonucleoprotein complex biogenesis, Ribonucleoprotein complex subunit organization, Ribonucleoprotein complex assembly, Ribosome biogenesis, Structural constituent of ribosome, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic small ribosomal subunit, Cytoplasmic ribosomal proteins, Cytoplasmic ribosomal proteins, Cytoplasmic ribosomal proteins, Ribosome, GTP hydrolysis and joining of the 60S ribosomal subunit, Ribosomal scanning and start codon recognition, Cytoplasmic ribosomal proteins, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic small ribosomal subunit, Ribonucleoprotein, Ribosomal protein	neural, ribosome
RPLP1	-4.02	Axon guidance, Nervous system development, Nervous system, Central nervous system, Brain, Structural constituent of ribosome, Ribonucleoprotein complex binding, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic large ribosomal subunit, Large ribosomal subunit, Cytoplasmic ribosomal proteins, Cytoplasmic ribosomal proteins, Ribosome, GTP hydrolysis and joining of the 60S ribosomal subunit, Cytoplasmic ribosomal proteins, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic large ribosomal subunit, Large ribosomal subunit, Ribonucleoprotein, Ribosomal protein	neural, ribosome
EIF6	-4.58	Nervous system, Central nervous system, Brain, Ribosome assembly, Ribonucleoprotein complex biogenesis, Ribonucleoprotein complex subunit organization, Ribonucleoprotein complex assembly, Ribosome biogenesis, Ribonucleoprotein complex binding, Ribonucleoprotein complex, Ribonucleoprotein complex	neural, ribosome
BTF3	-6.61	Nervous system, Central nervous system, Brain, Ribonucleoprotein complex, Ribosome	neural, ribosome
ALYREF	3.47	Ribonucleoprotein complex, Ribonucleoprotein complex	ribosome
DDX6	2.99	Ribonucleoprotein complex, Cytoplasmic ribonucleoprotein granule, Ribonucleoprotein complex	ribosome
SERPINB1	2.74	Cytoplasmic ribonucleoprotein granule	ribosome

SRP72	2.42	Ribonucleoprotein complex binding, Ribonucleoprotein complex, Ribonucleoprotein complex, Ribonucleoprotein	ribosome
CUL4A	1.88	Ribonucleoprotein complex biogenesis, Ribosome biogenesis	ribosome
PWP1	-1.92	Ribonucleoprotein complex biogenesis, Ribosome biogenesis	ribosome
DCPS	-1.94	Cytoplasmic ribonucleoprotein granule	ribosome
SNRPD1	-2.28	Ribonucleoprotein complex biogenesis, Ribonucleoprotein complex subunit organization, Ribonucleoprotein complex assembly, Ribonucleoprotein complex binding, Ribonucleoprotein complex, Ribonucleoprotein complex, Ribonucleoprotein	ribosome
FAU	-2.43	Structural constituent of ribosome, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic small ribosomal subunit, Cytoplasmic ribosomal proteins, Ribosome, Cytoplasmic ribosomal proteins, Cytosolic ribosome, Ribonucleoprotein complex, Ribosome, Ribosomal subunit, Cytosolic small ribosomal subunit	ribosome
SRP68	-3.09	Ribonucleoprotein complex binding, Ribonucleoprotein complex, Ribosome, Ribonucleoprotein complex, Ribosome,	ribosome
DDX21	-3.14	Ribonucleoprotein	ribosome
		Ribonucleoprotein complex biogenesis, Ribosome biogenesis	ribosome

String permalink with network functional analysis: <https://version-11-5.string-db.org/cgi/network?networkId=bFY8QJcX4JxW>

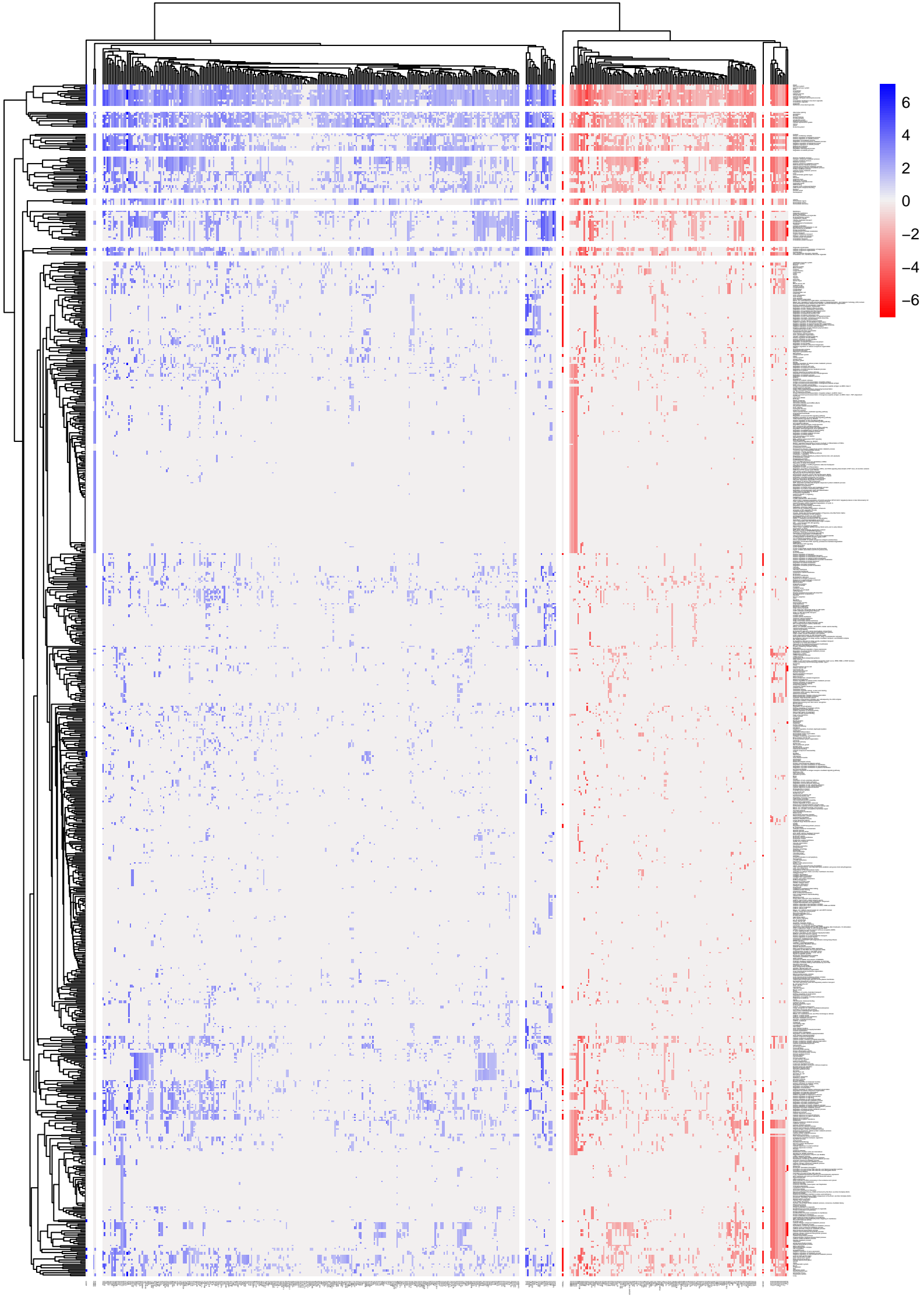


Figure S1 Heatmap showing all significant proteins, fold change and their correlation with the string functional network analysis. Blue increase in abundance in 3D samples compared to 2D samples. Red decrease in abundance in 3D samples compared to 2D samples.