

## SUPPLEMENTARY TABLES

Supplementary Table 1. Primers.

Gene	Primer	Sequence
β-ACTIN	Forward Primer	5'-CTTCGCGGGCGACGAT-3'
	Reverse Primer	5'-CCACATAGGAATCCTTCTGACC-3'
REST	Forward Primer	5'-AAACTTGAATACGCCAGAGGG-3'
	Reverse Primer	5'-GCCATTGTAGCAGGAGGTGAT-3'
GRIA1	Forward Primer	5'-GGCTACTCTACCGTCTGGA-3'
	Reverse Primer	5'-AATTTGTCCAAAAGCCCCTGC-3'
GRIN1	Forward Primer	5'-CAACGACCACTTCACTCCCA-3'
	Reverse Primer	5'-GACACGCATCATCTCAAACC-3'
GRIN2A	Forward Primer	5'-CTTGGAAGAGGCAGATCGAC-3'
	Reverse Primer	5'-CTTCTCGTTGTGGCAGATCC-3'
GRIN2B	Forward Primer	5'-AGCTGCTCTCCATACCCCTGA-3'
	Reverse Primer	5'-TCGTCGACTCCCTTGGTTTG-3'
ARC	Forward Primer	5'-TCATCCAGATGTGAGCACCG-3'
	Reverse Primer	5'-GATGGCCTGAGAGTGTGGAG-3'
NPAS4	Forward Primer	5'-GACCAGATCAACGCCGAGAT-3'
	Reverse Primer	5'-AGTGCCACCAGCGAAGAAGA-3'
BDNF	Forward Primer	5'-GTAAAGCCAACCCTGTGTGC-3'
	Reverse Primer	5'-TCCGCTCCAAAATCTGACTC-3'
EGR1	Forward Primer	5'-GGATCCTTTCCTCACTCGCC-3'
	Reverse Primer	5'-CGTTGCTCAGCAGCATCATC-3'
METTL3	Forward Primer	5'-TTGTCTCCAACCTTCCGTAGT-3'
	Reverse Primer	5'-CCAGATCAGAGAGGTGGTGTAG-3'
METTL14	Forward Primer	5'-AGTGCCGACAGCATTGGTG-3'
	Reverse Primer	5'-GGAGCAGAGGTATCATAGGAAGC-3'
FTO	Forward Primer	5'-ACTTGGCTCCCTTATCTGACC-3'
	Reverse Primer	5'-TGTGCAGTGTGAGAAAGGCTT-3'
YTHDF1	Forward Primer	5'-GACGACATCCACCGCTCCATT-3'
	Reverse Primer	5'-CCCCTCCCATGACGCTGAAG-3'

**Supplementary Table 2. The function of target genes.**

<b>ID</b>	<b>Description</b>	<b>P value</b>	<b>Gene ID</b>	<b>Count</b>
hsa03010	Ribosome	5.10E-06	/RPL41/RPS7/RPL3/RPS15/FAU/MRPL30/RPS11/RPL30/RPL7A/RPL17/RPL34/RPL21/RPL28/RPS27A/RPL23/RPL27	16
hsa03013	RNA transport	5.39E-05	/NUPL2/MAGOHB/TRNT1/STRAP/EIF4G3/NUP85/PHAX/EF1A1/EIF3B/CLNS1A/NCBP2/EIF3G/SEC13/EIF4A2/TPR	15
hsa03040	Spliceosome	1.27E-03	/MAGOHB/SNRNP70/TRA2B/RBMX/LSM6/SNRPC/USP39/NCBP2/HNRNPA1/PRPF8/TCERG1	11
hsa04142	Lysosome	2.24E-03	/AP1G1/GUSB/NPC1/GGA1/ATP6V0A1/GBA/LIPA/AP3B2/GGA3/CD63	10
hsa00620	Pyruvate metabolism	2.27E-02	/ALDH7A1/ACSS2/ALDH3A2/PDHA1	4
hsa04216	Ferroptosis	2.46E-02	/VDAC3/GCLC/MAP1LC3B/CP	4
hsa03430	Mismatch repair	2.52E-02	/PMS2/RFC5/SSBP1	3
hsa00380	Tryptophan metabolism	2.89E-02	/ALDH7A1/ALDH3A2/DHTKD1/AFMID	4
hsa04728	Dopaminergic synapse	3.00E-02	/ITPR1/COMT/GNB4/GRIN2A/GRIA2/ATF4/ITPR2/GNB2	8
hsa04927	Cortisol synthesis and secretion	3.46E-02	/ITPR1/PBX1/ATF4/ITPR2/PDE8A	5
hsa04210	Apoptosis	3.63E-02	/ACTG1/ITPR1/NFKBIA/SPTAN1/DIABLO/ATF4/ITPR2/CFLAR	8
hsa04120	Ubiquitin mediated proteolysis	3.77E-02	/CUL3/CDC27/ANAPC11/TRIM37/UBE2L3/CUL2/CDC16/UBE3B	8
hsa04720	Long-term potentiation	3.87E-02	/ITPR1/GRIN2A/GRIA2/ATF4/ITPR2	5
hsa04724	Glutamatergic synapse	4.00E-02	/ITPR1/GNB4/DLGAP1/GRIN2A/GRIA2/ITPR2/GNB2	7
hsa00010	Glycolysis / Gluconeogenesis	4.08E-02	/ALDH7A1/ACSS2/ALDH3A2/ALDOA/PDHA1	5
hsa05032	Morphine addiction	4.14E-02	/PDE2A/PDE1B/GNB4/GABRB3/GNB2/PDE8A	6