

**Supplementary Table 1.** Sequences and probes for qRT-PCR.

Variants	Primers	With primers	Probe	Orientations	Sequences
mExon I	mBDNF 1	9AS1	31	Sense	agtctccaggacagcaaagc
mExon IIA	mBDNF 2A	9AS2	31	Sense	ggatttgccgaggtgtagt
mExon IIB	mBDNF 2B	9AS2	31	Sense	gcggtgtagcctggaataga
mExon IIC	mBDNF 2C	9AS6	31	Sense	gtggtgtaagccgcaaaga
mExon III	mBDNF 3	9AS2	31	Sense	gagactgcgctccactcc
mExon IV	mBDNF 4	9AS2	31	Sense	gctgccttgatgtttactttga
mExon IV-GFP	mExon 4-GFP S	GFP AS	17	Sense	ccctcccccttttaactgaa
mExon V	mBDNF 5	9AS2	31	Sense	tcgcttttctagctttgtgg
mExon VI	mBDNF 6	9AS2	31	Sense	agcgtgacaacaatgtgact
mExon VIIA	mBDNF 7A	9AS2	31	Sense	ctcctgaggaagtgaagtgttg
mExon VIIB	mBDNF 7B	9AS4	88	Sense	ctgtatccgaccctctgtcc
mExon VIII	mBDNF 8	9AS2	31	Sense	gtcgcctgcgctcagtgagccga
mExon IXA	mBDNF 9A	9AS2	31	Sense	ttacaagcagatggccacat
mExon IX	mBDNF 9 coding	9CAS	86	Sense	gtcacagcggcagataa
mExon IX	mBDNF 9-AS1	1		Antisense	tgcaaccgaagtatgaaataacc
mExon IX	mBDNF 9-AS2	2A, 2B, 2C, 3, 4, 5, 7A		Antisense	aaggatggtcatcactcttctca
mExon IX	mBDNF 9-AS4	7B		Antisense	cacacaccacagcctttctc
mExon IX	mBDNF 9-AS6	2C		Antisense	aacctagtaaggaaaaggatggtc
mExon IX	mBDNF 9 coding-AS	9C		Antisense	gacctttcaaggactgtgacc
mExon IV-GFP	GFP-AS	4-GFP-S		Antisense	tccagctcgaccaggatg
CyclophilinD	CyclophilinD-S	CyclophilinD-AS	21	Sense	atggtgaaaaacctgcaaaa
CyclophilinD	CyclophilinD-AS	CyclophilinD-S		Antisense	catcctcaggaagtctgga
HGPRT	HGPRT-S	HGPRT-AS	95	HGPRT-AS	tcctcctcagaccgctttt
HGPRT	HGPRT-AS	HGPRT-S		HGPRT-AS	cctggtt,catcatcgtaatc