

Product datasheet for **MG207118**

PPP2R2B (BC026686) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R2B (BC026686) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP2R2B
Synonyms:	SCA12, PR55-BETA, PP2A-PR55B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207118 representing BC026686
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAATGCTTCTCTCGTTACCTGCCTTATATCTTCAGACCTCCAAACACCATCCTCTCTCCAGCTGCC
 ATACTGAAGCTGACATTATCTCTACGGTAGAATTC AACCCACCGGAGAGTTACTAGCGACGGGGACAA
 GGGGGTTCGGTTCGTAATATTTACGCGAGAACAGGAGAGTAAAAACAGGTTTCATCGTAGGGTGAATAC
 AATGTTTACAGCACATTCAGAGCCATGAACCCGAGTTCGATTACCTGAAAAGTTTAGAAAATAGAAGAAA
 AAATCAATAAGATAAGATGGCTCCCTCAACAAAACGCAGCTTACTTTCTTCTGTCTACCAACGATAAAAC
 TGTGAAGCTGTGAAAAGTCAGTGAGCGGGATAAGAGGCCAGAAGGCTACAACCTGAAAGATGAGGAGGGC
 CGGCTCCGGGATCCTGCCACCATCACACCCTGCGGGTGCCTGTCCTGAGACCCATGGACCTGATGGTGG
 AGGCCACCCACGAAGAGTGTGGCCAATGCGCACACGTACCACATCACTCTATATCTGTCAACAGCGA
 CTATGAGACCTACATGTCTGCTGATGACCTGAGGATTAACCTGTGGAACCTTGGATAACCAATCAGAGT
 TTTAATATCGTGGACATCAAGCCAGCCAACATGGAGGAGCTCACAGAGGTGATCACTGCAGCTGAGTTCC
 ACCCCACCACCTGCAACACCTTCGTATACAGCAGCAGCAAGGGGACAATCCGGCTGTGTGACATGCGTGC
 ATCTGCGCTGTGTGACAGGCACACCAAGTTTTTTGAAGAACCAGGAGATCCAAGCAACAGATCGTTTTTC
 TCTGAAATCATCTCTTCAATTTTCGGATGTGAAATTCAGCCACAGTGGGAGGTATATCATGACCAGAGACT
 ATCTGACCGTGAAAGTCTGGGACCTCAACATGGAAAATCGCCCCATTGAGACATACCAGGTTTCATGACTA
 CCTCCGCAGCAAGTTGTGCTCCCTCTATGAAAATGACTGCATTTTTGATAAATTTGAGTGTGTGGAAT
 GGGTCAGACAGCGTCATCATGACGGGCTCTACAATAACTTCTTCAGGATGTTTCGACCCGAAACACCAAGC
 GTGATGTGACCTTGGGCTCAAGGGAAAACAGCAACCCCGGGCTATCCTCAAACCCGAAAAGTGTG
 CGTCGGGGCAAGCGAAGAAAAGATGAGATCAGTGTTGACAGTCTGGACTTTAGCAAAAAGATCTTGCAT
 ACAGCTTGGCATCCTTCAGAAAACATTATAGCAGTGGCGGCTACGAATACTTATATATATTCCAAGACA
 AGGTTAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207118 representing BC026686
 Red=Cloning site Green=Tags(s)

MKCFSTRYLPYIFRPPNLTILSSSCHTEADIISTVEFNHTGELLATGDKGGRVVIFQREQESKNQVHRRGEY
 NVYSTFQSHEPEFDYLSLEIEEKINKIRWLPQQNAAYFLLSTNDKTVKLWVSRDKRPEGYNLKDDEE
 RLRDPATITTLRVPVLRPMDLMVEATPRRVFANAHTYHINSISVNSDYETYMSADDLRINLWNFEITNQS
 FNIVDIKIPANMEELTEVITAAEFHPHCNTFVYSSSKGTIRLCDMRASALCDRHTKFFEEPEDPSNRSFF
 SEIISISDVKFSHSGRYIMTRDYLTVKVDLNMENRPIETYQVHDYLRSKLCSLYENDCIFDKFECVWN
 GSDSVIMTGSYNNFFRMFDRNTRKRDVTLASRENSKPRAILKPRKVCVGGKRRKDEISVDSLDFSKKILH
 TAWHPSENIIVAATNNLYIFQDKVN

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>BC026686</u> , <u>AAH26686</u>
RefSeq Size:	2003 bp
RefSeq ORF:	1340 bp
Locus ID:	72930
Cytogenetics:	18 B3
Gene Summary:	The B regulatory subunit might modulate substrate selectivity and catalytic activity, and also might direct the localization of the catalytic enzyme to a particular subcellular compartment. Within the PP2A holoenzyme complex, isoform 2 is required to promote proapoptotic activity. Isoform 2 regulates neuronal survival through the mitochondrial fission and fusion balance. [UniProtKB/Swiss-Prot Function]