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Product datasheet for RG212918

PPM1B (NM_002706) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPM1B (NM_002706) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPM1B
Synonyms:	PP2C-beta; PP2C-beta-X; PP2CB; PP2CBETA; PPC2BETAX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG212918 representing NM_002706
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGTGCATTTTTGGATAAACCCAAAACTGAAAAACATAATGCTCATGGTGCTGGGAATGGTTTACGTT
ATGGCCTGAGCAGCATGCAAGGATGGAGAGTGGAAATGGAAGATGCACACACAGCTGTTGTAGGTATTCC
TCACGGCTTGGAAGACTGGTCATTTTTTGCAGTTTATGATGGTCATGCTGGATCCCGAGTGGCAAATTAC
TGCTCAACACATTTATTAGAACACATCACTACTAACGAAGACTTTAGGGCAGCTGGAAAATCAGGATCTG
CTCTTGAGCTTTCAGTGGAAAATGTTAAGAATGGTATCAGAACTGGATTTTTGAAAATTGATGAATACAT
GCGTAACTTTTCAGACCTCAGAAACGGGATGGACAGGAGTGGTTCAACTGCAGTGGGAGTTATGATTTCA
CCTAAGCATATCTACTTTATCAACTGTGGTGATTCACGTGCTGTTCTGTATAGGAATGGACAAGTCTGCT
TTTCTACCCAGGATCACAAACCTTGCAATCCAAGGGAAAAGGAGCGAATCCAAAATGCAGGAGGCAGCGT
GATGATACAACGTGTTAATGGTTCATTAGCAGTATCTCGTGCTCTGGGGGACTATGATTACAAGTGTGTT
GATGGCAAGGGCCCAACAGAACAACTTGTTTCTCCAGAGCCTGAGGTTTATGAAATTTTAAGAGCAGAAG
AGGATGAATTTATCATCTTGGCTTGTGATGGGATCTGGGATGTTATGAGTAATGAGGAGCTCTGTGAATA
TGTTAAATCTAGGCTTGAGGTATCTGATGACCTGGAAAATGTGTGCAATTGGGTAGTGGACACTTGTTTA
CACAAGGGAAGTCGAGATAACATGAGTATTGTACTAGTTTGCTTTTCAAATGCTCCCAAGGTCTCAGATG
AAGCGGTGAAAAAAGATTCAGAGTTGGATAAGCACTTGGAATCACGGGTTGAAGAGATTATGGAGAAGTC
TGGCGAGGAAGGAATGCCTGATCTTGCCCATGTCATGCGCATCTTGTCTGCAGAAAATATCCCAAATTTG
CCTCCTGGGGGAGGTCTTGCTGGCAAGCGTAATGTTATTGAAGCTGTTTATAGTAGACTGAATCCACATA
GAGAAAGTGATGGGGCCTCCGATGAAGCAGAGGAAAGTGGATCACAGGGAAAATTGGTGGAAGCTCTCAG
GCAAATGAGAATTAATCATAGGGGAAACTACCGACAACTTCTGGAGGAGATGCTGACTAGTTACAGGCTA
GCTAAAGTAGAGGGAGAAGAAAGCCCTGCTGAACCAGCTGCCACAGCTACTTCTTCGAACAGTGATGCTG
GAAACCCAGTGACAATGCAGGAAAGCCATACTGAATCAGAAAGTGGTCTTGCTGAATTAGACAGCTCTAA
TGAAGATGCAGGGACAAAGATGAGTGGTGAAAAAATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

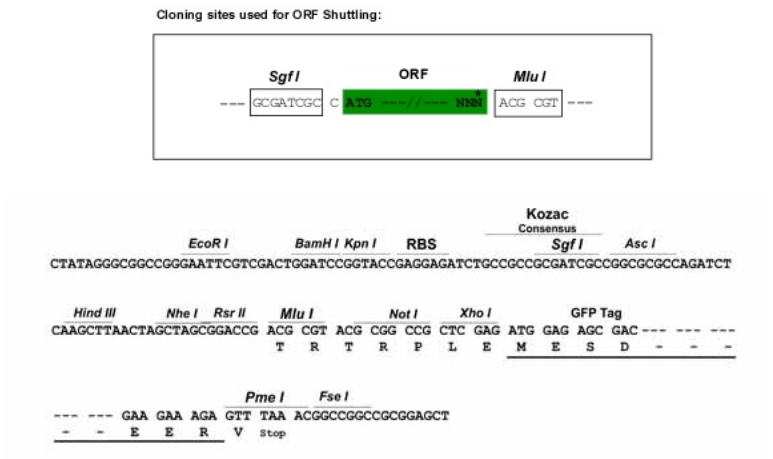
>RG212918 representing NM_002706
Red=Cloning site Green=Tags(s)

MGAFLDKPKTEKHNAHGAGNGLRYGLSSMQGWRVEMEDAHTAVVGIPHGLEDWSFFAVYDGHAGSRVANY
CSTHLLEHITTNEDFRAAGKSGSALELSVENVKNGIRTGFLKIDEYMRNFSDLRNGMDRSGSTAVGVMIS
PKHIYFINCGDSRAVLYRNGQVCFSTQDHKPCNPREKERIQNAGGSVMIQRVNGSLAVSRALGDYDYKCV
DGKGPTEQLVSPEPEVYEILRAEEDEFIILACDGIWDVMSNEELCEYVKSRLEVSDDLENVCNWVVDTCL
HKGSRDNMSIVLVCFSNAPKVSDEAVKKDSELDKHLESRVEEIMEKSGEEGMPDLAHVMRILSAENIPNL
PPGGGLAGKRNVIEAVYSRLNPHRESDGASDEAEESGSQGKLVEALRQMRINHRGNYRQLLEEMLTSYRL
AKVEGEESPAEPAATATSSNSDAGNPVTMQESHTESESGLAELDSSNEDAGTKMSGEKI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

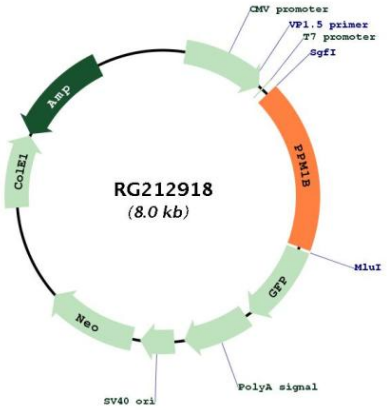
Cloning Scheme:



ACCN:	NM_002706
ORF Size:	1437 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	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:	NM_002706.6
RefSeq Size:	2605 bp
RefSeq ORF:	1440 bp
Locus ID:	5495
UniProt ID:	O75688

Cytogenetics:	2p21
Domains:	PP2C
Protein Families:	Druggable Genome, Phosphatase, Stem cell - Pluripotency
Protein Pathways:	MAPK signaling pathway
Gene Summary:	The protein encoded by this gene is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. This phosphatase has been shown to dephosphorylate cyclin-dependent kinases (CDKs), and thus may be involved in cell cycle control. Overexpression of this phosphatase is reported to cause cell-growth arrest or cell death. Alternative splicing results in multiple transcript variants encoding different isoforms. Additional transcript variants have been described, but currently do not represent full-length sequences. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG212918