

Product datasheet for **RG213685**

PPM1G (NM_177983) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPM1G (NM_177983) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPM1G
Synonyms:	PP2CG; PP2CGAMMA; PPP2CG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213685 representing NM_177983
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTGCTACCTCTCCAGCCCAACACGGTGAAGTGCTCCGGGACGGGGTCGGGCCCCCGCCTGC
 CGCTGCCCTACGGCTTCTCCGCCATGCAAGGCTGGCGCGTCTCCATGGAGGATGCTCACAACGTATTCC
 TGAGCTGGACAGTGAGACAGCCATGTTTTCTGTCTACGATGGACATGGAGGGGAGGAAGTTGCCTGTAC
 TGTGCCAAATATCTTCTGATATCATCAAAGATCAGAAGGCTACAAGGAAGCAAGCTACAGAAGGCTT
 TAGAAGATGCCTTCTTGCTATTGACGCCAAATTGACCACTGAAGAAGTCATTAAGAGCTGGCACAGAT
 TGCAGGGCGACCCACTGAGGATGAAGATGAAAAAGAAAAAGTAGCTGATGAAGATGATGTGGACAATGAG
 GAGGCTGCACTGCTGCATGAAGAGGCTACCATGACTATTGAAGAGCTGCTGACACGCTACGGGCAGAACT
 GTCACAAGGGCCCTCCACAGCAAATCTGGAGGTGGGACAGGCGAGGAACAGGGTCCCAGGGCCTCAA
 TGGGGAGGCAGGACCTGAGGACTCAACTAGGGAACTCCTTACAAGAAAATGGCCCCACAGCCAAGGCC
 TACACAGGCTTTTCTCCAACCTCGAACGTTGGGACTGAGGCAGGCCAAGTTGGTGAGCCTGGCATTCCCA
 CTGGTGAGGCTGGGCCTTCTGCTCTTACGCTCTGACAAGCTGCCTCGAGTTGCTAAGTCCAAGTTCTT
 TGAGGACAGTGAGGATGAGTCAGATGAGGCGGAGGAAGAAGGAAGACAGTGAAGGATGCACCGAGGAA
 GAGGATGGCTACAGCAGTGAGGAGGCAGAGAATGAGGAAGATGAGGATGACACCGAGGAGGCTGAAGAGG
 ACGATGAAGAAGAAGAAGAAGAGATGATGGTGCCAGGGATGGAAGGCAAGAGGAGCCTGGCTCTGACAG
 TGGTACAACAGCGGTGGTGGCCCTGATACGAGGGAAGCAGTTGATTGTAGCCAACGCAGGAGACTCTCGC
 TGTGTGGTATCTGAGGCTGGCAAAGCTTAGACATGTCCTATGATCACAACCAGAGGATGAAGTAGAAC
 TAGCACGCATCAAGAATGCTGGTGGCAAGTACCATGGATGGGGGAGTCAACGGGGCCTCAACCTCTC
 CAGAGCCATTGGGGACCACTTCTATAAGAGAAAACAAGAACCTGCCACCTGAGGAACAGATGATTTACGCC
 CTTCTGACATCAAGGTGCTGACTCTCACTGACGACCATGAATTCATGGTCATTGCCTGTGATGGCATCT
 GGAATGTGATGAGCAGCCAGGAAGTTGTAGATTTCAATCAATCAAGATCAGCCAGCGTGTGAAAATGG
 GGAGCTTCGGTTATTGTATCCATTGTGGAAGAGCTGCTGGATCAGTGCCTGGCACCAGACACTTCTGGG
 GATGGTACAGGGTGTGACAACATGACCTGCATCATTTGCTTCAAGCCCCGAAACACAGCAGAGCTCC
 AGCCAGAGAGTGGCAAGCGAAAACCTAGAGGAGGTGCTCTACTGAGGGGCTGAAGAAAATGGCAACAG
 CGACAAGAAGAAGAAGGCCAAGCGAGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG213685 representing NM_177983
 Red=Cloning site Green=Tags(s)

MGAYLSQPNTVKCSGDGVPRLPLPYGFSAMQGWVSMEDAHNCIPELDSETAMFVSYDGHGGEEVALY
 CAKYLPDIKDKAYKEGKLQKALEDAFLAIDAKLTTEEVIKELAQIAGRPTEDDEKEKVADEDDVDNE
 EAALLHEEATMTIEELLTRYQONCHKGPPHSKSGGGTGEEPGSQGLNAGEAPEDSTRETPSQENGP
 TAKAYTFSSNSERGTAEAGVGEPIPTGEAGPSCSSASDKLPRVAKSKFFEDSEDESDEAEEDDEE
 CSEEDGYSSEEAENEDEDDTEEAEEDEEEEEEMVPGMEGKEEPPGSDSGTTAVVALIRGKQLIVANAGDSR
 CUVSEAGKALDMSYDHKPEDEVELARIKNAGGKVTMDGRVNGGLNLSRAIGDHFYKRNKNLPPEEQMISA
 LPDIKVLTLDDHEFMVIACDGIWNVMSSQEVVDFIQSKISQRDENGELRLLSSIVEELLDQCLAPDTS
 GDTGCDNMTCIICFKPRNTAELQPESGKRKLEEVLSTEGAEENGNSDKKKKAKRD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_177983

ORF Size: 1638 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_177983.3](#)

RefSeq Size: 2265 bp

RefSeq ORF: 1641 bp

Locus ID: 5496

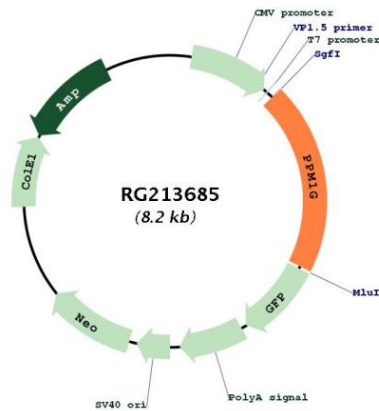
UniProt ID: [O15355](#)

Cytogenetics: 2p23.3

Protein Families: Druggable Genome, Phosphatase

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 is found to be responsible for the dephosphorylation of Pre-mRNA splicing factors, which is important for the formation of functional spliceosome. Studies of a similar gene in mice suggested a role of this phosphatase in regulating cell cycle progression. [provided by RefSeq, Apr 2010]

Product images:



Circular map for RG213685