

## Product datasheet for **RG200439**

### PPM1G (NM\_002707) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPM1G (NM_002707) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPM1G
Synonyms:	MGC1675; MGC2870; 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:**

>RG200439 representing NM\_002707  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTGCTACCTCTCCAGCCAAACACGGTGAAGTGCTCCGGGACGGGGTCGGGCCCGCGCCTGC  
 CGCTGCCCTACGGCTTCTCCGCCATGCAAGGCTGGCGCGTCTCCATGGAGGATGCTCACAACGTATTCC  
 TGAGCTGGACAGTGAGACAGCCATGTTTTCTGTCTACGATGGACATGGAGGGGAGGAAGTTGCCTGTAC  
 TGTGCCAAATATCTTCTGATATCATCAAAGATCAGAAGGCTACAAGGAAGGCAAGCTACAGAAGGCTT  
 TAGAAGATGCCTTCTTGCTATTGACGCCAAATTGACCACTGAAGAAGTCATTAAGAGCTGGCACAGAT  
 TGCAGGGCGACCCACTGAGGATGAAGATGAAAAAGAAAAAGTAGCTGATGAAGATGATGTGGACAATGAG  
 GAGGCTGCACTGCTGCATGAAGAGGCTACCATGACTATTGAAGAGCTGCTGACACGCTACGGGCAGAACT  
 GTCACAAGGGCCCTCCACAGCAAATCTGGAGGTGGGACAGGCGAGGAACAGGGTCCCAGGGCCTCAA  
 TGGGGAGGCGAGGACCTGAGGACTCAACTAGGGAACTCCTTACAAGAAAATGGCCCCACAGCCAAGGCC  
 TACACAGGCTTTTCTCCAACCTCGAACGTTGGGACTGAGGCGAGGCAAGTTGGTGAAGCTGGCATTCCCA  
 CTGGTGAGGCTGGGCCTTCTGCTCTTACGCTCTGACAAGCTGCCTCGAGTTGCTAAGTCCAAGTTCTT  
 TGAGGACAGTGAGGATGAGTCAGATGAGGCGGAGGAAGAAGGAAGACAGTGAAGGATGCACCGAGGAA  
 GAGGATGGCTACAGCAGTGAGGAGGCGAGAGAATGAGGAAGATGAGGATGACACCGAGGAGGCTGAAGAGG  
 ACGATGAAGAAGAAGAAGAAGAGATGATGGTGCCAGGGATGGAAGGCAAGAGGAGCCTGGCTCTGACAG  
 TGGTACAACAGCGGTGGTGGCCCTGATACGAGGGAAGCAGTTGATTGTAGCCAACGAGGAGACTCTCGC  
 TGTGTGGTATCTGAGGCTGGCAAAGCTTAGACATGTCCTATGATCACAACCAGAGGATGAAGTAGAAC  
 TAGCACGCATCAAGAATGCTGGTGGCAAGTACCATGGATGGGCGAGTCAACGGGGCCTCAACCTCTC  
 CAGAGCCATTGGGGACCACTTCTATAAGAGAAAACAAGAACCTGCCACCTGAGGAACAGATGATTTACGCC  
 CTTCTGACATCAAGGTGCTGACTCTCACTGACGACCATGAATTCATGGTCATTGCCTGTGATGGCATCT  
 GGAATGTGATGAGCAGCCAGGAAGTTGTAGATTTCAATCAAGATCAGCCAGCGTGTGAAAATGG  
 GGAGCTTCGGTTATTGTCATCCATTGTGGAAGAGCTGCTGGATCAGTGCCTGGCACCAGACACTTCTGGG  
 GATGGTACAGGGTGTGACAACATGACCTGCATCATTTGCTTCAAGCCCCGAAACACAGCAGAGCTCC  
 AGCCAGAGAGTGGCAAGCGAAAACCTAGAGGAGGTGCTCTACTGAGGGGCTGAAGAAAATGGCAACAG  
 CGACAAGAAGAAGAAGGCCAAGCGAGAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG200439 representing NM\_002707  
 Red=Cloning site Green=Tags(s)

MGAYLSQPNTVKCSGDGVGAPRLPLPYGFSAMQGWVSMEDAHNCIPELDSETAMFSVYDGHGGEEVALY  
 CAKYLDPDIKDKAYKEGKLQKALEDAFLAIDAKLTTEEVIKELAQIAGRPTEDDEKEKVADEDDVDNE  
 EAALLHEATMTIEELLTRYGQNCHKGPPHSKSGGGTGEEPGSQGLNAGEPEDSTRETPSQENGPATA  
 YTGFSNSERGTAEAGVGEPIPTGEAGPSCSSASDKLPRVAKSKFFEDSEDESDEAEEDDEEEDSEE  
 EDGYSSEEAENEDEDDTEEAEEDEEEEEEMVPGMEGKEEPPGSDSGTTAVVALIRGKQLIVANAGDSR  
 CUVSEAGKALDMSYDHPPEDEVELARIKNAGGKVTMDGRVNGGLNLSRAIGDHFYKRNKNLPPEEQMISA  
 LPDIKVLTLDDHEFMVIACDGIWNVMSSQEVVDFIQSKISQRDENGELRLLSSIVEELLDQCLAPDTS  
 DGTGCDNMTCIICFKPRNTAELQPESGKRKLEEVLSTEGAEENGNSDKKKKAKRD

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_002707

ORF Size: 1638 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\\_002707.3](#), [NP\\_002698.1](#)

RefSeq Size: 2165 bp

RefSeq ORF: 1640 bp

Locus ID: 5496

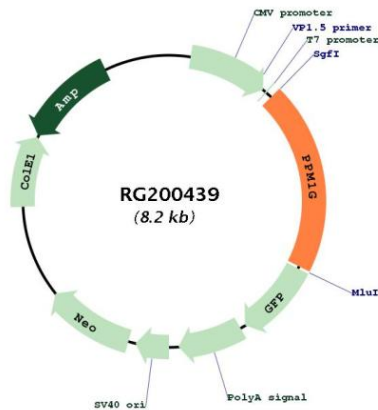
Cytogenetics: 2p23.3

**Domains:** PP2C

**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 RG200439