

Product datasheet for **RC200439**

PPM1G (NM_002707) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPM1G (NM_002707) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPM1G
Synonyms:	MGC1675; MGC2870; PP2CG; PP2CGAMMA; PPP2CG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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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: 2302 bp

RefSeq ORF: 1640 bp

Locus ID: 5496

Cytogenetics: 2p23.3

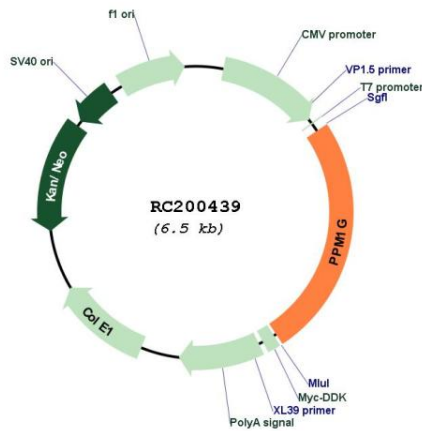
Domains: PP2C

Protein Families: Druggable Genome, Phosphatase

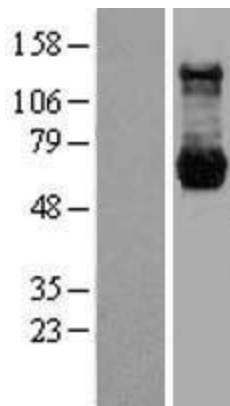
MW: 59.3 kDa

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]

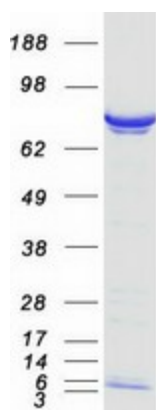
Product images:



Circular map for RC200439



Western blot validation of overexpression lysate (Cat# [LY400953]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200439 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PPM1G protein (Cat# [TP300439]). The protein was produced from HEK293T cells transfected with PPM1G cDNA clone (Cat# RC200439) using MegaTran 2.0 (Cat# [TT210002]).