

Product datasheet for **RG218909**

PPM1L (NM_139245) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPM1L (NM_139245) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPM1L
Synonyms:	PP2C-epsilon; PP2CE; PPM1-LIKE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218909 representing NM_139245 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGATAGAGGATACAATGACTTTGCTGTCTCTGCTGGGTCGCATCATGCGCTACTTCTTGCTGAGACCCG
 AGACGCTTTCTGCTGTGCATCAGCTTGGCTCTATGGAGTTACTTCTCCACACCGACGAGGTGAAGAC
 CATCGTGAAGTCCAGCCGGGACGCCGTGAAGATGGTGAAGGGCAAGGTAGCCGAGATCATGCAGAACGAT
 CGACTCGGGGGCTTGATGTGCTCGAGGCCGAGTTTCCAAGACCTGGGAGTTCAAGAACCACAACGTGG
 CGGTGTAATCCAGGGCCGAGAGACCACATGGAGACCGCTTCGAAGTTCTCACGGATCTGGCCAA
 CAAGACGCACCCGTCCATCTTCGGGATCTTCGACGGGCACGGGGAGAGACTGCAGCTGAATATGTAAAA
 TCTCGACTCCCAGAGGCCCTTAACAGCATCTTCAGGACTACGAGAAAGACAAAGAAAATAGTGTATTAT
 CTTACCAGACCATCCTTGAACAGCAGATTTTGTCATTGACCGAGAAATGCTAGAAAAATTGACTGTATC
 CTATGATGAAGCAGGCACAACGTGTTTGATTGCTCTGCTATCAGATAAAGACCTCACTGTGGCCAACGTG
 GGTGACTCGCGCGGGTCTGTGTGACAAAGATGGGAACGCTATTCCTTTGTCTCATGATCACAAGCCTT
 ACCAGTTGAAGGAAAGAAAGAGGATAAAGAGAGCAGGTGGTTTCATCAGTTTCAATGGCTCCTGGAGGT
 CCAGGGAATCCTGGCCATGTCTCGGTCCCTGGGGATTATCCGCTGAAAAATCTCAACGTGGTCATCCCA
 GACCCAGACATCCTGACCTTTGACCTGGACAAGCTTCAGCCTGAGTTCATGATCTTGGCATCAGATGGTC
 TCTGGGATGCTTTCAGCAATGAAGAAGCAGTTTCGATTTCATCAAGGAGCGCTTGGATGAACCTCACTTTGG
 GGCCAAGAGCATAGTTTACAGTCATTTACAGAGGCTGCCCTGACAATATAACAGTCATGGTGGTGAAG
 TTCAGAAATAGCAGCAAAACAGAAGAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG218909 representing NM_139245
 Red=Cloning site Green=Tags(s)

MIEDTMTLLSLLGRIMRYFLLRPETLFLLCISLALWSYFFHTDEVKTIKSSRDVAKMVKGKVAEIMQND
 RLGGLDVLEAEFSKTWEFKNNHNAVYSIQGRDHMEDRFEVLTDLANKTHPSIFGIFDGHGGETAAEYVK
 SRLPEALKQHLQDYEDKENSIVLSYQTILEQQILSIDREMLEKLTVSIDEAGTTCLIALLSKDLDLVANV
 GDSRGVLCDDGNAIPLSHDHKPYQLKERKRIKAGGFISFNGSWRVQGIAMSRSLGDYPLKLNLVVIP
 DPDILTFDLKLPQEFMILASDGLWDAFSNEEAVRFIKERLDEPHFGAKSIVLQSFYRGCPDNITVMVVK
 FRNSSKTEEQ

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_139245

ORF Size: 1080 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_139245.4](#)

RefSeq Size: 3056 bp

RefSeq ORF: 1083 bp

Locus ID: 151742

UniProt ID: [Q5SGD2](#)

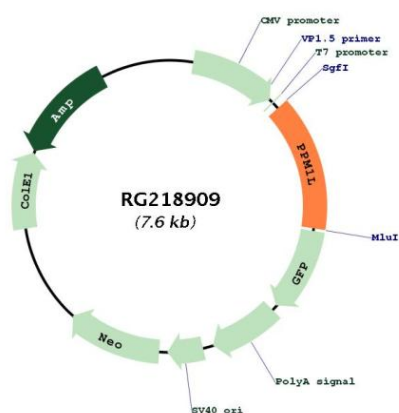
Cytogenetics: 3q25.33-q26.1

Domains: PP2C

Protein Families: Druggable Genome, Phosphatase

Gene Summary: The protein encoded by this gene is a magnesium or manganese-requiring phosphatase that is involved in several signaling pathways. The encoded protein downregulates apoptosis signal-regulating kinase 1, a protein that initiates a signaling cascade that leads to apoptosis when cells are subjected to cytotoxic stresses. This protein also is an endoplasmic reticulum transmembrane protein that helps regulate ceramide transport from the endoplasmic reticulum to the Golgi apparatus. Finally, this gene may be involved in adiposity since it is upregulated in adipose tissues. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG218909