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Product datasheet for SC118474

PPM1G (NM_002707) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPM1G (NM_002707) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPM1G
Synonyms:	MGC1675; MGC2870; PP2CG; PP2CGAMMA; PPP2CG
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC118474 sequence for NM_002707 edited (data generated by NextGen Sequencing)

ATGGGTGCCTACCTCTCCCAGCCCAACACGGTGAAGTGCTCCGGGGACGGGGTCGGCGCC
CCGCGCCTGCCGCTGCCCTACGGCTTCTCCGCCATGCAAGGCTGGCGCGTCTCCATGGAG
GATGCTCACAACTGTATTCCTGAGCTGGACAGTGAGACAGCCATGTTTTCTGTCTACGAT
GGACATGGAGGGGAGGAAGTTGCCTTGTACTGTGCCAAATATCTTCCTGATATCATCAAA
GATCAGAAGGCCTACAAGGAAGGCAAGCTACAGAAGGCTTTAGAAGATGCCTTCTTGGCT
ATTGACGCCAAATTGACCACTGAAGAAGTCATTAAAGAGCTGGCACAGATTGCAGGGCGA
CCCACTGAGGATGAAGATGAAAAAGAAAAAGTAGCTGATGAAGATGATGTGGACAATGAG
GAGGCTGCACTGCTGCATGAAGAGGCTACCATGACTATTGAAGAGCTGCTGACACGCTAC
GGGCAGAACTGTCACAAGGGCCCTCCCCACAGCAAATCTGGAGGTGGGACAGGCGAGGAA
CCAGGGTCCCAGGGCCTCAATGGGGAGGCAGGACCTGAGGACTCAACTAGGGAAACTCCT
TCACAAGAAAATGGCCCCACAGCCAAGGCCTACACAGGCTTTTCCTCCAACTCGGAACGT
GGGACTGAGGCAGGCCAAGTTGGTGAGCCTGGCATTCCCACTGGTGAGGCTGGGCCTTCC
TGCTCTTCAGCCTCTGACAAGCTGCCTCGAGTTGCTAAGTCCAAGTTCTTTGAGGACAGT
GAGGATGAGTCAGATGAGGCGGAGGAAGAAGAGGAAGACAGTGAGGAATGCAGCGAGGAA
GAGGATGGCTACAGCAGTGAGGAGGCAGAGAATGAGGAAGATGAGGATGACACCGAGGAG
GCTGAAGAGGACGATGAAGAAGAAGAAGAAGAGATGATGGTGCCAGGGATGGAAGGCAAA
GAGGAGCCTGGCTCTGACAGTGGTACAACAGCGGTGGTGGCCCTGATACGAGGGAAGCAG
TTGATTGTAGCCAACGCAGGAGACTCTCGCTGTGTGGTATCTGAGGCTGGCAAAGCTTTA
GACATGTCCTATGATCACAAACCAGAGGATGAAGTAGAACTAGCACGCATCAAGAATGCT
GGTGGCAAGGTCACCATGGATGGGCGAGTCAACGGGGGCCTCAACCTCTCCAGAGCCATT
GGGGACCACTTCTATAAGAGAAACAAGAACCTGCCACCTGAGGAACAGATGATTTCAGCC
CTTCCTGACATCAAGGTGCTGACTCTCACTGACGACCATGAATTCATGGTCATTGCCTGT
GATGGCATCTGGAATGTGATGAGCAGCCAGGAAGTTGTAGATTTCATTCAATCAAAGATC
AGCCAGCGTGATGAAAATGGGGAGCTTCGGTTATTGTCATCCATTGTGGAAGAGCTGCTG
GATCAGTGCCTGGCACCAGACACTTCTGGGGATGGTACAGGGTGTGACAACATGACCTGC
ATCATCATTTGCTTCAAGCCCCGAAACACAGCAGAGCTCCAGCCAGAGAGTGGCAAGCGA
AAACTAGAGGAGGTGCTCTCTACTGAGGGGGCTGAAGAAAATGGCAACAGCGACAAGAAG
AAGAAGGCCAAGCGAGACTAG

Clone variation with respect to NM_002707.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002707 unedited

GTTACCATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCCTGCACCTG
AGGCCGCCGGCCAGCCGCCGCCTGGGTGCCTACCTCTCCCAGCCCACACGGTGAAGTGCT
CCGGGGACGGGGTCGGCGCCCCGCGCCTGCCGCTGCCCTACGGCTTCTCCGCCATGCAAG
GCTGGCGCGTCTCCATGGAGGATGCTCACAACTGTATTCCTGAGCTGGACAGTGAGACAG
CCATGTTTTCTGTCTACGATGGACATGGAGGGGAGGAAGTTGCCTTGTACTGTGCCAAAT
ATCTTCCTGATATCATCAAAGATCGGAAGGCCTACAAGGAAGGCAAGCTACAGAAGGCTT
TAGAAGATGCCTTCTTGGCTATTGACGCCAAATTGACCACTGAAGAAGTCATTAAAGAGC
TGGCACAGATTGCAGGGCGACCCACTGAGGATGAAGATGAAAAAGAAAAAGTAGCTGATG
AAGATGATGTGGACAATGAGGAGGCTGCACTGCTGCATGAAGAGGCTACCATGACTATTG
AAGAGCTGCTGACACGCTACGGGCAGAACTGTCACAAGGGCCCTCCCCACAGCAAATCTG
GAGGTGGGACAGGCGAGGAACCAGGGTCCCAGGGCCTCAATGGGGAGGCAGGACCTGAGG
ACTCAACTAGGGAAACTCCTTCACAAGAAAATGGCCCCACAGCCAAGGCCTACACAGGCT
TTTCCTCCAACTCGGAACGTGGGACTGAGGCAGGCCAAGTTGGTGAGCCTGGCATTCCCA
CTGGTGAGGCTGNGCCTTCCTGCTCTTCACCTCTGACAGCTGCCTCGAGTTGCTAAGTCC
AGTTCTTTGAGGACAGTGAGATGAGTCANATGAGCGGAGAAGAANAGNANACAGTGAGAA
TGCACGAGGANNAGATGCTACACN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002707 unedited
TCCCGGTTTTGGCCGGGCCCACCNNTTAAATTACTTGGACGCGGCCGCATACTANATCGA
GTTTTTTTTTTTTTTTTTTTTTTAGGTTTTGGCCTTTAGTCTGAAAAATGTTGATTGAAA
GTGTACAACAGAGAGCGGGTGCAAGCGGCCGAGGGCCATGGAGCCGCCAATAAAAAAGAA
TGTCCTTAAATAAAGTTCACAGAGTAAAAACCAGAACCGCCAGTCCTTCCCTCCAACACA
ACAGAGCACAGGCACAGAACCGGTGATGAGCCCGAGGAGCATAGGCGGCTGGGAAGGACA
GCAAAGGCTCCCGGCTGCAATGTGGAGGGAGAGCCCTTTTTGGAATGGGCGGAGTGAAGC
CACCCAGCTCCCCCTGCACACCTCATACCCACTGCTAAGGCTAAAGGAAAAAGACAAAAC
TCATTCTCAAGTCCGGAGGGCTCATAAAACAGTCTAGGTGGGCAGGGGTCTGGATGACTG
CTAGTCTCGCTTGGGCTTCTTTTTTTTGGCGCTGTTGGCATTTTCTTCAACCCCCTCAGT
AAAGAACACCCTCTTTAGTTTTTGCTTGCCACTCTCTGGCTGGAGCCTTTGTGTGTTCCG
CGGCTTGAAGCATATGATTAAGCATGCTATGTTGTCAAAACTCGGTACATTCCCAAAAAG
TCCTGGGGCCCAGATCTCGTTCCCGCACCTTCTTCCACAAGGGATGAACAAAACCCGAAA
CCTCCCCATTTTCTTTACCCTGCGTTGATCCTTTGATTGGAAAGAAAACCTAAACAATTT
CTGGGGTTGGTCCTTCCAATCTCTAAGAGGGTCCCACTGGGGCCTATGCCCTCTCAAATT
CCTGGGCCCCCTATGCAAAACACCCCCATTCTTATTGTGAGGCACGCGCCTAAATTATTC
GTTCCTCTCTAGGCGGGCGGTCCTCTTGTTTCTCCTTAATAAAAAGGGGCTCTCATGGGG
TCCCGAGAAGGATGGAGGCCCCCCGTGCACTTCTCACTATCTTATGGTCN

Restriction Sites: NotI-NotI

ACCN: NM_002707

Insert Size: 2190 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: 1641 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]
Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Both variants encode the same protein.