

## Product datasheet for SC114924

### PPM1F (NM\_014634) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPM1F (NM_014634) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPM1F
Synonyms:	CAMKP; CaMKPase; FEM-2; hFEM-2; POPX2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114924 sequence for NM_014634 edited (data generated by NextGen Sequencing)

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ATGTCCTCTGGAGCCCCACAGAAGAGCAGCCCAATGGCCAGTGGAGCTGAGGAGACCCCA
GGCTTCTGACACGCTCCTGCAAGACTTCCCAGCCCTGCTGAACCCAGAGGACCCCTCTG
CCATGGAAGGCCCCAGGGACGGTCTCAGCCAGGAGGAGTGGAGGGCGAGCTGGCTGAG
CTGGCCATGGGCTTTCTGGGCAGCAGGAAGGCCCGCCACCACCTTCTGCTGCTCTGGCC
CACGAAGCAGTTTACAGCTGCTACAGACAGACCTTTCCGAATTCAGGAAGTTGCCCAGG
GAGGAAGAAGAAGAGGAGGAGGACGATGACGAGGAGGAAAAGGCCCTGTGACCTTGCTG
GATGCCCAAAGCCTGGCAGAGTTTCTTAACCGCCTTTGGGAAGTCGCCGGCCAGTGG
CAGAAGCAGGTGCCATTGGCTGCCCGGCTCACAGCGGCAGTGGCTGGTCTCCATCCAC
GCCATCCGGAACACTCGCCGCAAGATGGAGGACCGGCACGTGTCCCTCCCTTCTTCAAC
CAGCTCTTCGGCTTGTCTGACCCCTGTGAACCGGCCTACTTTGCTGTGTTTGATGGTCA
GGAGGCGTGGATGCTGCGAGGTACGCCGCTGTCCACGTGCACACCAACGCTGCCCGCCAG
CCAGAGCTGCCACAGACCCCTGAGGGAGCCCTCAGAGAAGCCTTCCGGCGCACCGACAG
ATGTTTCTCAGGAAAGCCAAGCGAGAGCGGCTGCAGAGCGGCACACAGGTGTGTGTGCG
CTCATTGCAGGAGCGACCCTGCACGTGCGCTGGCTCGGGATTCCCAGGTCATTTTGGTA
CAGCAGGGACAGGTGGTGAAGCTGATGGAGCCACACAGACCAGAACGGCAGGATGAGAAG
GCGGCAATTGAAGCATTGGTGGCTTTGTGTCTCACATGGACTGCTGGAGAGTCAACGGG
ACCTTGGCCGTCTCCAGAGCCATCGGGGATGTCTTCCAGAAGCCCTACGTGTCTGGGGAG
GCCGATGCAGCTTCCCGGCGCTGACGGGCTCCGAGGACTACCTGCTGCTTGCCTGTGAT
GGCTTCTTTGACGTGCTACCCACCAGGAAGTTGTTGGCCTGGTCCAGAGCCACCTGACC
AGGCAGCAGGGCAGCGGGCTCCGTGTGCGCCAGGAGCTGGTGGCTGCGGCCCGGGAGCGG
GGCTCCCACGACAACATCACGGTCATGGTGGTCTTCTCAGGGACCCCAAGAGCTGCTG
GAGGGCGGAACAGGGAGAAGGGGACCCCGAGCAGAAGGGAGGAGGCAGGACTTGCC
TCCAGCCTTCCAGAACCTGAGACCCAGGCTCCACCAAGAAGCTAG

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Clone variation with respect to NM\_014634.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_014634 unedited  TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCCCGGAGACCGGG  GGTGAAGCCTGGAGACCCTTTGCCCTGGCCTAGCTGCAGGCCCCCGGATGCTTTGGGC  ATGTCCTCTGGAGCCCCACAGAAGAGCAGCCCAATGGCCAGTGGAGCTGAGGAGACCCCA  GGCTTCTGGACACGCTCCTGCAAGACTTCCAGCCCTGCTGAACCCAGAGGACCCTCTG  CCATGGAAGGCCCCAGGGACGGTGTCTCAGCCAGGAGGAGGTGGAGGGCGAGCTGGCTGAG  CTGGCCATGGGCTTTCTGGGCAGCAGGAAGGCCCCGCCACCACTTGTCTGCTCTGGCC  CACGAAGCAGTTTTACAGCTGTACAGACAGACCTTTCCGAATTCAGGAAGTTGCCCAGG  GAGGAAGAAGAAGAGGAGGAGGACGATGACGAGGAGGAAAAGGCCCTGTGACCTTGCTG  GATGCCAAAAGCCTGGCACAGAGTTTCTTAACCGCCTTTGGGAAGTCGCGGCCAGTGG  CAGAAGCAGGTGCCATTGGCTGCCGGGCTCACAGCGGAGTGGCTGGTCTCCATCCAC  GCCATCCGGAACACTCGCCGCAAGATGGAGGACCGGCACGTGTCCCTCCCTTCTTCAAC  CAGCTCTCGGCTGTCTGACCCTGTGAACCGCCTACTTTGCTGTGTTTATGGTGCAC  GGNAGCGTGGATGCTGCGAGGTACGCCGCTGTCCACGTGCACACCAACGCTGCCGCCAG  CCAGAGCTGCCACAGACCTGAGGGAGCCCTCAGAGAAACCTTCCGGCGCACCGACCAG  ATGNNTCTCAGGGAAGCCAAGCGAGAGCGCTGCAGAGCCACACAGTGGTGTGTGCGC  TCATTGGCAGAGCGACNTGCACGTGCTGGCTCGGGGATTCCAGTCC</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_014634 unedited  CCGCGGCCGATTCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTCTTGAAAAAGCTTTAA  AAAAGTAAATACTTAAGTTTTCTAAAGAATAAAAATAAATGCTAAGCTCTGCTTAAATTAT  ATGACACAACAGGTCATCTTGGCACTGATAAAACAAGAGAAAACCTGGAATACTGCTTC  GGAATTAGACCTCCCTGGAAAAAACAACACACCAACAAAAGACACATGTGCGTCGCCG  GTTCCGGGCTCAGGGAAGAGAGCAGCCCGAAGGCCCTGGTGGGCCCAAGCACATCATGG  CTGCCCTGGAGTGGGGCAGGGGGTGGCTGCTACAGAACAGACCCTGGCTCTGCTGCG  CTCTCCTCTTTGGGACTGGTGTGGCCGACCAGGACTGGCTGGGCATATCTGTAATAT  GAACCCACCTGGCCCTGGCCGACAGAGAGGCAATGGGAACTGGGGCTGGCCACTCCGC  TGCTGGGCTGACCCAGGGGTGCTTCAAGAGTTTGGCTCCTGGTCCGCCCCAGGGTTC  CACGTGCACAACCATGCTGCCCCATGCACACCAGCGTCTTTGGTTTGGCTGCCGTTGCGC  ACCTATGACCTCTGGACCCACCCCGGCCTACTAGGACCTGGGAGCAAGAGCCCCCTCCAT  CTTTTCTTTGGCAGGCCTCCTAACCTGCCTTCCCCTCCTGCCGCCACCAAGTGCAGTTT  ACAGCCACAAGAAGCCCTGTGGGGGTGCTCCAACCGCCTTGGGCGCTTGGGAAACCT  GCGGGGCGGGCCCTGTCCACTGCCTGCACCTGTGGCCCCGAGGCCTCTGAGGAACACGC  CACCGATGCAGCATGTCAGCCCCCCCCCTTACCTTTTACCCTTGTTTTACCCCCCTTCA  CTATTCAAATCCCTTCTCCCCTTCTATCTCT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014634
<b>Insert Size:</b>	2440 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_014634.2](#), [NP\\_055449.1](#)

**RefSeq Size:** 5169 bp

**RefSeq ORF:** 1365 bp

**Locus ID:** 9647

**UniProt ID:** [P49593](#)

**Cytogenetics:** 22q11.22

**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 can interact with Rho guanine nucleotide exchange factors (PIX), and thus block the effects of p21-activated kinase 1 (PAK), a protein kinase mediating biological effects downstream of Rho GTPases. Calcium/calmodulin-dependent protein kinase II gamma (CAMK2G/CAMK-II) is found to be one of the substrates of this phosphatase. The overexpression of this phosphatase or CAMK2G has been shown to mediate caspase-dependent apoptosis. An alternatively spliced transcript variant has been identified, but its full-length nature has not been determined. [provided by RefSeq, Jul 2008]