

Product datasheet for **SC320526**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_014634.2
 GAGGAGACAGCTGAGGCCCGCGGAGACCAGGGGTGAAGCCTGGAGACCCTTTGCCCTG
 GCCTAGCTGCAGGCCCGGGATGCTTTGGGCATGTCCTCTGGAGCCCCACAGAAGAGCA
 GCCCAATGGCCAGTGGAGCTGAGGAGACCCAGGCTTCTGGACACGCTCCTGCAAGACT
 TCCCAGCCTGCTGAACCCAGAGACCCCTGCCATGGAAGGCCCCAGGGACGGTGCTCA
 GCCAGGAGGAGGTGGAGGGCGAGCTGGCTGAGCTGGCCATGGGCTTCTGGGCAGCAGGA
 AGGCCCGCCACCACCTTGTCTGCTCTGGCCCACGAAGCAGTTTCACAGCTGCTACAGA
 CAGACCTTCCGAATTCAGGAAGTTGCCAGGGAGGAAGAAGAAGAGGAGGAGGACGATG
 ACGAGGAAAAGGCCCTGTGACCTTGTGGATGCCCAAAGCCTGGCACAGAGTTTCTTTA
 ACCGCCTTTGGGAAGTCGCCGGCCAGTGGCAGAAGCAGGTGCCATTGGTGCCCGGGCCT
 CACAGCGCAGTGGTGGTCTCCATCCACGCCATCCGGAACACTCGCCGCAAGATGGAGG
 ACCGGCACGTGTCCCTCCCTTCAACCAGCTTTCGGCTTGTCTGACCCTGTGAACC
 GCGCTACTTTGTGTGTTGATGGTACGGAGGCGTGGATGCTGCGAGGTACGCCGCTG
 TCCACGTGCACACCAACGCTGCCGCCAGCCAGAGCTGCCACAGACCCTGAGGGAGCCC
 TCAGAGAAGCCTCCGGGCACCCAGACAGATGTTTCTCAGAAAAGCCAAGCGAGAGCGGC
 TGCAAGCGGCACACAGGTGTGTGCGCTCATTGCAGGAGCGACCCTGCACGTGCGCT
 GGCTCGGGGATCCCAGGTCATTTTGGTACAGCAGGGACAGGTGGTGAAGCTGATGGAGC
 CACACAGACCAGAACGGCAGGATGAGAAGGCGCGCATTGAAGCATTGGGTGGCTTTGTGT
 CTCACATGGACTGCTGGAGAGTCAACGGGACCCTGGCCGTCTCCAGAGCCATCGGGGATG
 TCTTCCAGAAGCCCTACGTGTCTGGGGAGGCCGATGCAGCTTCCCGGGCCTGACGGGCT
 CCGAGGACTACCTGCTGCTTGCCTGTGATGGCTTCTTTGACGTCGTACCCACCAGGAAG
 TTGTTGGCCTGGTCCAGAGCCACCTGACCAGGCAGCAGGGCAGCGGGCTCCGTGTCGCC
 AGGAGCTGGTGGCTGCGGCCGGGAGCGGGCTCCCACGACAACATCACGGTCATGGTGG
 TCTTCTCAGGGACCCCAAGAGCTGCTGGAGGGCGGGAACAGGAGAGAAGGGGACCCCC
 AGGCAGAAAGGAGGAGGAGGACTTGCCTCCAGCCTTCCAGAACCTGAGACCCAGGCTC
 CACCAAGAAGCTAGTGGTTTCCAGGCCCTGCCCTCCCTTCTCCATCCTTGTCTCTT
 CTCTCCCTCAGAAGCCTCAGGACCCAACAGGTGGCAGGCAGTGGACAGGGTGCCCGCCC
 ACAGTGTCTTCCCAGCACCCAGAGCCAGTGGGACACCCCGCAGCCCGTCTCTGGTG
 GCTGTGGAAGTGCAGTGGTGGCGGCAGATGGTGAAGGCAGCTTAGGAGACCTACCA
 AAGAGAAGATGGACCGGCTCTTGTCTCCAGCTCCTATTAGGCCCGGGTGGGACCAGAGG
 TCATAGGTGCCAACGGCAGCCAAACAAAGACTGGTGTGCATGGGGCAGCATGGTTG
 TGACAGTGGGACCTGGGGCGGACCCAGGAGCCAACTTGAAGCACCCCTGGGTGAG
 GCCCAGCAGCGGAGTGGCCAGCCCAAGTTCCATTGCTCCTCTCTGCGGCCAGGGCCAG
 GTGGGTTCATATTTACAGATATGCCAGCCAGTCTGGTGGCCACACCAGTGTCCCAAA
 GAGGAGAGCGCAGCAGAGCCAGGGGTCTGTTCTGTAGCAGCCACCCCTGCCCCACTC
 CAGGGCAGCCATGATGTGCTTGGGCCACCAGGGCCTCCGGGCTGCTCTTCCCTGAG
 CCCGGAACCGGCACGCACATGTGCTTTTGTGGTGTGTTGTTTTTCCAGGGAGGT
 CTAATTCGAAGCAGTATTCCAGGTTTTCTTTGTTTTATCAGTGCCAAGATGACCTGT
 TGTGTCATATAATTTAAGCAGAGCTTAGCATTTATTTATCTTTAGAAAACCTAAGTAT
 TTACTTTTTTAAAGCTATTTTTCAAGGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_014634

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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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]