

Product datasheet for **SC125491**

PPP1R3D (NM_006242) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1R3D (NM_006242) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPP1R3D
Synonyms:	PPP1R6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_006242 edited
 AGGGCGGGGACGCCCGGCTGCGGCGCGCTGCGGCAGGGGAGCTGGAGGCGGAGGCGCGCA
 GCTCCGCTGAGCTCCCTGGCTGAGCTGAGGCCGGCGGGGGCCCGCTGCAGGCGGCGTCA
 CGAGGGGCGGGGCGGAGGCTCGCTAGGAAGTTGCACCCGGTCAAGTTGCAGCCTTGTAA
 TAACGCCCGGACCGGAAAGTGGGAGGGGCGCTCCCGAACGCAGCCTTCTTGTAA
 ACCTCCAAGGAAGCAAGAAGAAAAAGAGGCGCTACCTGCGCTCCCGGAGGCCTGTGA
 AAGCTTCCACTAGAGAAAACTCCCACTTTACAATTTCTTTAACCGCAAGAAGCGGAG
 GACCTGGACAAGGACTCGAGGAGCAAGGTGGCGAACCAAGGGTAGGGCGCACCGGGCCC
 AGAGGTCCCCCGAGTTGCAGATACGGTGGACTCTCTGCGGCTTCTGAGCACGGAGGGA
 GCTGTGCGGGGTGCGGAGGTGCTCTCATCCCTGCCTCATCTTCCGACGGCCGGCGGG
 GCCATGTCCAGAGGCCGAGCTCCGCGTCTGCTAGCGCCCTGGGATCCCGAAGCTC
 GGCCCCGGAGCCTCAGCTGCTGTCGGACCTGGACGGCGGCTGGCCCTGGAGCCGCG
 GCCTGTAGGCCCTGGAGCCCGGGCCGCGCGCCGCCAACGCCAGCGCCGTGCGGC
 TCGCACCCCGCTGCGGCCATCATCCTGCGGGGGCGCGCTACTGCCAGCTCCCC
 GAGCGCCGCCAGAAGGCCGCGGGCGCGCGGGCGCTGCGTGTGCGCCGGGCTGCAGCCAG
 AAGCTCCGCGTGCCTTCCGCCAGCCCTGGGCTTGGAGCTGGCACAGGTCAAGGTGTT
 AACCGGGAGACGCCCTCCGTGCCGCTGCACGTGCTGTCGCGGCTCGCAATCAACTCG
 GACCTGTGCTGCAGCAGCCAGGACTGGAGTTACCCCTGCATTGCCTGGTGCCCGATTT
 CCGCCGCCGTCGAGGCCCGGACTTTGGCGAGCGCTGCAGCGGCAGCTCGTGTGCTG
 GAGCGTGTCACTTGTGCGACCTGGCATCAGCGGTACGGTGCAGCGTGTGCAACGTGGCC
 TTCGAGAAGCAGGTGGCTGTGCGCTACACTTTCTGGGCTGGCGCAGTACCCACGAGGCG
 GTGGCGGGTGGCGGGCCCGCAGGCCCGAGGGCACGGAGGACGTTTTTACCTTCGGC
 TTTCCAGTACCGCCCTTCTGCTGGAGCTCGGCTCCCGCGTGCCTTCCGGGTGCGCTAC
 CAAGTGGCGGGTGCCGAGTACTGGGACAACAACGACCACCGAGACTACAGCCTCACATGT
 CGCAACCACGCGCTGCACATGCCTCGCGGGAGTGCGAAGAGAGCTGGATCCACTTCATC
 TGAGCCGCGGGGACCGCCACCTGGAGCCTCCACACCTAAGCTGCGCCTCCTGTGATT
 TCCCTGTGGGCTCTCACATCTATCTGTTGTTCTTACCACCCTCCAAGTCTCTGACC
 TAATTTTCTGCTGCAAGTCCCCTGGCAGTGGCCATCCTGTCTTCTACTTGAACGCTCT
 GAGTCACTTGGTCTAAAAAGTAGCCTCAGGTGGCCAGAAGGCCGAGTTGTGTAATGAGTT
 GGGC

5' Read Nucleotide Sequence: >OriGene 5' read for NM_006242 unedited
 GTTCGNATTTTGTAAACGACTCACTATAGGCGGCCGCGACTTCGGCACGAGGGCGGGGA
 CGCCCCGCTGCGGCGCGCTGCGGCAGGGGAGCTGGAGGCGGAGGCGCGCAGCTCCGCTGA
 GCTCCCTGGCTGAGCTGAGGCCGGCGGGGGCCCGCTGCAGGCGGCGTACGAGGGGCGG
 GGCGGAGGCTCGTAGGAAGTTGCACCCGGTCAAGTTGCAGCCTTGTAAAGTAACGCCGCG
 GACCGGAAAGTGGGAGGGGCGCTCCCGAACGCAGCCTTCTTGTAAAGAACCTCAAC
 AAGCAAGAAGAAAAAGAGGCGCTACCCTGCGCTCCCGGAGGCCTCTGAAAGTTCCAC
 TAGAGAAAACTCCCACTTTACAATTTCTTTAACCGCAAGAAGCGGAGGACCTGGACA
 AGGACTCGAGGAGCAAGGTGGCGAACCAAGGGTAGGGCGCACCGGGCCGAGAGTCCCC
 CGCAGGTTGCAGATACGGTGGACTCTCTGCGGCTTCTGAGCACGGAGGAGCTGTGCGG
 GGTGCGGAGGTCGTCTCTCATCCCTGCCTCATCTTCCGACGGCCGGGGGCCATGTCCA
 GAGGCCGAGCTCCGCGTCTGCTAGCGCCCTGAGATCCCGAAGCTCGGCCCGGGA
 GCCTCAGTGCCTGTGCGACCTGGACAGCGGCGTGGCCCTGGAGCCGGGGCCTGTAGGC
 CCCCTGGGAGCCCGGGCCGCGCGCCGCCAACGCCAGCGCCGTGAGGCTGCGACCCCC
 GCCTGCGGCCATCATCCTGCGGGCGGCGCGCTACTGCCAGCTCCCCGAGCGCGCC
 AGAAGGGGCGCGGCGCGCGGGCGCTGNCGTGTGCGCCAGGCTGCAGCCAGAGCTCCGCG
 TGCGCTTTCGCGACGCCCTGGCTTGNAGCTGGCACANNGTGAGGGTGNCAACGCGGGA
 GACGACC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006242 unedited NNNTTTTGTNCTTTNATACTTTTAGGCTTGGNGTAAAATCATCTTTAAATAACACTATTA AATATGGTTTTGGGGGGGACAANNCCCAGCAATTGGCACCAGCCCACTAGNAAAATTTTA ACATCTAAGTAATATAACTGTTTTAGGGTCTGAAAGTTCTCCTTCAGTTGTTCCACAGCC TCTTTATCAACTAGGCAAATATATTTAAGCTTTTAAATTCATAATGTTGGTATTTTTTA AAAGGCACGGGAGGTTCACTTAATATTAATATATAACATTCACCTTCATAACCAAAACC TTTTGGCAAGTGACTTTCACATAGATTATGAGATTCTCTACATGCCTTAAAATAAATCT GGCAGCTCTTAACTCATATCTAAATTCTCTGGACAACCTGCTTGCTCTCTGTTTTGGGGC CAGGGGCGTAGCAGTGAAGGCCCTAACAGGCTTGCTGACCTAATTGGACAGTTTGTAAA TAGCAGGAAATGTAACAAGGCTTCTCTCTCTCTTGATGTTAATGTAGTGAACAGTGCTA ATAGCCAGAGATTGTGCAATTTAGTCACAATATTTCAAGCCAAAATTCAGTGTCTTATA TAAAAGATACCGAAGAAAGCTATCCTTGTCTTTGAATTATAAAAGCACAGAGTTGCA ATGATCAGAACCAAACTGGTAAAAGCCGAAATGCATCCTTTAGTATTGATTTGACAGA TGCCAACAAGCATTCAAAAATTTAGAGTTAATTTCTTGGTGACAGGTAGCATAAAATTGA TCAGACTGGTTTCAGCTGTATCATAAGCTTCACANATGGNAGATCNNTGNCCTTNTCTGGC TGTTTTTTTTTTTTNCCCACACCTTNANTNCTAGCACCTGNNTGTCAGACCACTGNTCA GCACCAAAGAACTCCTCANCCTGGNAGTCTTTGGAGTTTAAAGGGATGCCTACCN
Restriction Sites:	NotI-NotI
ACCN:	NM_006242
Insert Size:	3700 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:	<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_006242.3 , NP_006233.1
RefSeq Size:	3481 bp
RefSeq ORF:	900 bp
Locus ID:	5509
UniProt ID:	O95685
Cytogenetics:	20q13.33
Domains:	CBM_21
Protein Families:	Druggable Genome, Phosphatase

Protein Pathways: Insulin signaling pathway

Gene Summary: Phosphorylation of serine and threonine residues in proteins is a crucial step in the regulation of many cellular functions ranging from hormonal regulation to cell division and even short-term memory. The level of phosphorylation is controlled by the opposing actions of protein kinases and protein phosphatases. Protein phosphatase 1 (PP1) is 1 of 4 major serine/threonine-specific protein phosphatases which have been identified in eukaryotic cells. PP1 associates with various regulatory subunits that dictate its subcellular localization and modulate its substrate specificity. Several subunits that target PP1 to glycogen have been identified. This gene encodes a glycogen-targeting subunit of PP1. [provided by RefSeq, Jul 2008]