

Product datasheet for **SC125330**

PPP1R3A (NM_002711) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1R3A (NM_002711) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPP1R3A
Synonyms:	GM; PP1G; PPP1R3
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002711, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCCTTCTGAAGTACCTAGTCAGATTAGCAAAGATAATTTTTAGAAAGTTCCTAATTTATCTGACT
CTCTTTGTGAAGATGAAGAAGTTACTTTCCAACCTGGTTTCTCCCCTCAACCAAGTAGACGAGGTTCTGA
TTCTTCTGAAGACATACCTGGATACCCCATCTTCAGGTAAGAGAGTTTCATTTGCTGATTCCTTT
GGATTCAATCTTGTGCTGTTAAGAATTTGATTGCTGGGAATTACCGAGTGCTCAACCACTTTTGACT
TAGGGACGGACATTTCCACACAGAAGAATATGTTTTAGCCCACTGTTTGACTTGCCTTCTCAAAGA
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AGTATCAAGGGTATTATTCGAGTTTTGAATGTTTCTTTGAGAAGTTAGTATATGTAAGAATGCTTTAG
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GTTCTCCTTTAAGATTGTATTGGTTCCTCTTATCAAAAAGATGGCAGTAAAGTTGAGTTTTGTATACGT
TATGAACTTCTGTTGGTACATTTTGGTCAAATAAATGGCACAAATATACATTCATTTGTCAAAGA
AAGAACAAGAGCCGGAGCCTGTAAAACCATGAAAAGAAGTTCTAACAGACAAAATAAAGGCTGCTTAA
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GATACCTATATCCCAACAATCATTGTTCTCATGAGGACAAGGAAGATTTGGAAGCCAGTAAATCGAAATG
TAAAAGATGTAAACAGGGAACATGATGAACATAATGAAAAGAATTAGAGTTGATGATAAATCAACTT
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TGTCTCCAAGTTCATCAGCAGAAAGCTCCGTAAGGGAGATTTTTACTGCAATGAAAAATATTCCTCAGG
AGATGACTGTACACATCAACCTTCAGAGGAACTACTTCAAATATGGGAGAAATCAAGCCATCATTGGGA
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TAAAAAATGAAGGAGGAGCTAAAAATATTGAAGTAAAAGATTTGGGATGTTTACGAAGAGATTTCCAT
TCAGATACGTCGGCATGTCTCAAAGAATCAACAGAAGAAGGATCTTCTAAGGAAGATTATTATGGCAATG
GTAAGGATGATGAAGAACAAGAATATATTTAGGTGTTAATGAAAAACAAGAAAAAATTTCCAAACAAT
CTTACATGACCAAGAAAGGAAGATGGGTAAACCCTAAAATAAGTGTGGCAGGGATTGGAGCTAGTAACAGA
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GACCTGGCTACTCTGCTGAGCGAACATACCGCAATCCCCACCCGGGAATCACAGCAGATGTGTCTCATT
 CACCAAGGACAAATTTAAGTTGGGAAGAAGCTGTGTTAACCCAGAGCATCATCATTTGACTAGTGAAGG
 CAGCGCTTTAGGAGGGATAAAGTGGTCAAGTTTGTTCATCAAGAACTGGAAATGTTTTGAGGAATGATTAT
 CTTTTCCAAGTTGAAGAAAAATCAGGTGGGATTAATTCTGAAGATCAGGATAATAGCCACAGCATAAAC
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 TCTACTAGTCTTCTGTTGAGGAAAGTCAAGCTCAAGGCAACGAATCTTTGTTTTCAAAAATACCAACT
 CTAAAATACCTTATTTCTTTTGTCTGATATTTCTTATAACTGTCTACCATTATGACTTAATGATTGG
 CTTGACATTTCTAGTTTTGTCTTGTCTGGCTATCCTGGGAAGGGGTAGACAAAAAGAGTCTGTCAA
 AAGAAGTAA

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for NM_002711 unedited
 ACGACTCACTATAGGGCGCCGCAATTCGGCACGAGGCCCAATGGAGCCTTCTGAAGTA
 CCTAGTCAGATTAGCAAAGATAATTTTTAGAAGTTCCTAATTTATCTGACTCTCTTTGT
 GAAGATGAAGAAGTTACTTTCCAACCTGGTTTCTCCCCTCAACCAAGTAGACGAGTTCT
 GATTTCTCTGAAGACATATACCTGGATACCCATCTTCAGGTAAGAGAGTTTCATTT
 GCTGATTCCTTTGGATTCAATCTGTGTCTGTTAAAGAATTTGATTGCTGGGAATTACCG
 AGTGCTTCAACCACTTTTGACTTAGGGACGACATTTTCCACACAGAAGAATATGTTTTA
 GCCCACTGTTTGACTTGCCTTCTTCAAAGAAGATCTTATGCAACAACCTCAAATACAG
 AAAGCAATACTGGAGTCAACTGAGTCTTCTTGGGTCTACAAGTATCAAGGGTATTATT
 CGAGTTTTGAATGTTTCTTTGAGAAGTATAGTATATGTAAGAATGTCTTTAGATGACTGG
 CAGACACATTATGACATTTTAGCAGAATATGTTCTAATTCATGTGATGGTAAAAGTACTGAC
 CAGTTCTCCTTTAAGATGTATTGGTTCCTCTTATCAAAAAGATGGAGGTAAAAGTGAAGT
 TTTGTATACGTTATGAAAACCTCGGTTGGTACCATTTTGGTCAAATAATATTGGCACAAA
 ATTATACATTCATTTGTCAAAGAAAAGACCAAGAACCGNAGCCTGGGTAAACCCATGG
 AAAGAAGTTCCCTACAGACAAATANAAGCTGCTTANGGAAAATCAGTAAAGAAATTCATC
 GTACCT

3' Read Nucleotide Sequence:	>OriGene 3' genomic read for NM_002711 unedited TCCAGGCCCGGAGAGGCACTGGGGAGGGGTCACAGGGATGCCACCCGGGATCTGTTCCAGG AAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTACAAT GTGGAACAAATAGTCCATTTGGAATTTTATTGTCATTTAATGCCTTATGCTTTATAGGT ACAAATTCATTCTGAAGCAATGCTTGTGGAAATTTAATTTACATTTTCAATTCTGAATA GTTGACACTGAAATAGTTCAGCTGTGTTACAGTCTTCCCTCACAAGAGAAAAGCATTGCT TAAAGACAGGCCACCCACAGAATTTTTCAGAATTGAAAGATAATCTCCCAATTGTTTCAG TCTTGTCAGATTTGTCCTATGAACGCCCTGACTTTGTAGCTATAAAGAAGGTATGTGTGT GTGTGTGTGCATGCATCAAGTATTACACTCAAGTGAACAGAATATGTTTAAAGTTTGCATT TCAATATATATGGGTGTTTTCTTAAAAATATGAAAGGTTGAAATATTTGATCAATGAATC CTGATAAATGATACAGTGTTAAATACAAATTTTCATGTTCAATACTAAAAGACCAAAAAAG TCCTCTGCCATTGTCCATGTTTTATCTGTTTTTAAAACCGTANGGAAAATATACTC TCAAGGGGAAAAAATGAAGCTTTATTGCAAGAGAAATGAATGCAAGAAATAGCACTTT TAGTAGTGAAGAATGTGAACATTTGCACTTCTAGCTTGTAGGAGCACAGCTGTCCTATAT CACTTGCGGGTTAGTCTATTTCTATGGTTTATGTCCAACATATGTCCTTN
Restriction Sites:	Please inquire
ACCN:	NM_002711
Insert Size:	4600 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:	<u>NM_002711.2</u> , <u>NP_002702.1</u>
RefSeq Size:	6779 bp
RefSeq ORF:	3369 bp
Locus ID:	5506
UniProt ID:	<u>Q16821</u>
Cytogenetics:	7q31.1
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
Protein Pathways:	Insulin signaling pathway

Gene Summary:

The glycogen-associated form of protein phosphatase-1 (PP1) derived from skeletal muscle is a heterodimer composed of a 37-kD catalytic subunit and a 124-kD targeting and regulatory subunit. This gene encodes the regulatory subunit which binds to muscle glycogen with high affinity, thereby enhancing dephosphorylation of glycogen-bound substrates for PP1 such as glycogen synthase and glycogen phosphorylase kinase. [provided by RefSeq, Jul 2008]