

Product datasheet for **SC123371**

PPP2R1B (NM_181699) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R1B (NM_181699) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPP2R1B
Synonyms:	PP2A-Abeta; PR65B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_181699 edited
AGGAGCAGGAGGAGAAAGAACATGGCGGGCGCATCAGAGCTCGGGACCGGCCAGGAGCA
GCGGGTGGAGATGGAGATGATTCGCTATACCCGATCGCGGTTTTAATCGACGAGCTCCGC
AATGAAGACGTGCAGCTCCGACTCAACAGTATTAAGAAGTTATCAACAATTGCCCTAGCA
CTTGGAGTAGAAAGGACCCGAAGTGAATTGTTGCCATTTCTTACAGATAACAATTTATGAT
GAAGATGAGGTAATAAGTCTTGTGCTGAGCAGCTGGGAAATTTCACTGGCCTAGTGGGA
GGTCCTGACTTTGCCACTGTCTGCCTCCTTTGGAAAACTGGCAACTGTGGAAGAG
ACTGTTGTTTCGTGACAAGGCTGTGGAGTCCCTGAGACAGATCTCCAGGAGCATACTCCT
GTTGCTCTGGAAGCTTATTTGTACCTCTGGTGAACGCTTAGCAAGTGGGGATTGGTTC
ACCTCTCGCACATCTGCATGTGGTTTGTTCAGCGTTTGTATCCCAGGGCATCAAATGCT
GTTAAAGCAGAAATCAGACAGCAATTCGGTTCCTTGTGCTCAGATGACACACCAATGGTA
CGACGTGCTGCTCTCCAAATGGGTGAATTTGCAAAAGTTTGGAAATAGACAGTGTG
AAAAGTGAATTTTCCACTGTTCACTAGTCTAGCTTCAGATGAACAGGATTCAGTGCGC
CTCCTTGTGTGGAAGCTTGTGTCAGTATTGCCAGTTATTGTCTCAGGATGACCTTGAG
ACTTTGGTGATGCCTACACTTCGACAAGCAGCAGAAGATAAATCTTGGCGGTTTCGCTAT
ATGGTGGCTGACAGATTTTCAGAGCTCCAGAAAGCCATGGGTCCATAAATCACCCATAAT
GACCTCATCCCCGCTTTTCAAACTACTTAAAGACTGTGAAGCTGAAGTCCGGGCTGCT
GCTGCCACAAAGTAAAAGAACTTGGTGAGAACTTGCCCATTTGAAGATAGAGAGACCATA
ATTATGAATCAAATTCGCTTATATAAAGGAATTAGTATCCGATACCAATCAACATGTC
AAATCGGCTCTAGCTTCTGTAATTATGGGATTGTCTACTATTTTGGGCAAAAGAAAATACC
ATTGAACATCTTCTACCTCTTTTCTTAGCTCAGTTAAAGGATGAGTGTCTGACGTTTCGT
TTGAATATCATCTCCAATTTGGATTGTGTAATGAAGTATTGGAATCCGTCAGCTCTCT
CAGTCTCTCCTTCCATAGTGGAGCTGGCAGAAGATGCCAAATGGAGGGTCCGCCTG
GCCATCATTGAGTATATGCCGCTGCTGGCAGGCCAGCTGGGTGTGGAATTTTGTGAA
AAGCTGAATTTCTTATGTATGGCTTGGCTCGTGGACCATGTATACGCCATCCGAGAAGCT
GCCACCAACAACCTCATGAACTAGTTCAGAAGTTTGGTACAGAGTGGGCCAAAATACT
ATTGTTCCCAAAGTGTTAGTAATGGCAAATGATCCTAATTACTTGCATAGAATGACCACT
TTATTCTGCATTAATGCACTGTCTGAGGCCTGTGGTCAAGAAATAACTACTAAGCAAATG
CTGCCATCGTATTAATAAATGGCAGGAGACCAAGTAGCAAATGTTTCGCTTCAATGTGGCC
AAATCTCTACAAAAGATTGGACCAATTCTAGATACCAATGCTTTACAGGGAGAAGTGAAG
CCAGTACTACAGAAGTTAGTCAAGATGAAGACATGGATGTCAAATACTTGCACAGGAA
GCTATAAGTGTGGTGGCACAAGGCTGAGGAAGCTAGAATTTCCCTGTGAAGGACAGTGG
GAACCCAGTGTCCCTCGGGCTGACAAGAACCCTTCCCAAGACCCACAGTGCCTGGAGAG
GACATGGGGAAGGGACCAGTGTATCAGTTGCGTGGAGATACTAGAGACACACTTGCCAG
CTGGGAATTGCAGAGCTAGTGCATTTCTCCAAAGCACAGACTAATACCCAGATTTAAA
AAAAGAACATAAAAAATAAAGTACCACACATATTACAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_181699 unedited GGCCGAATACACTTCTATAGCATACATTATACAATANTTATGGTAGTCAGGCCAAGGGG GGCGCGCGCGGGGATTTCATAAAAAGCGGAGGAGCAGGAGGAGAAAGAACATGGCGGGCG CATCAGAGCTCGGGACCGGCCAGGAGCAGCGGTGGAGATGGAGATGATTGCTATACC CGATCGCGGTTTTTATTTACGAGCTCCGCAATGAAGACGTGGGGGGCGACTCAACAGTA TTAAGAAGTTATCAACAATTGCCCTAGCACTTGGAGTAGAAAGGACCCGAAGTGAATTGT TGCCATTTCTTACAGATACAATTTATGATGAAGATGAGGTACTATTAGCTCTTGCTGAGC AGCTGGGAAATTTCACTGGCCTAGTGGGAGGTCCTGACTTTGCCACTGTCTGCTGCCTC CTTTGGAAAATCTGGCAACTGTGGAAGAGACTGTTGTTCTGTGACAAGGCTGTGGAGTCCC TGAGACAGATCTCCAGGAGCATACTCCTGTTGCTCTGGAAGCTTATTTTGTACCTCTGG TGAAACGCTTAGCAAGTGGGGATTGGTTCACCTCTCGCACATCTGCGTGTGGTTTGGTCA GCGTTTGTCTATCCAGGGCATCAAATGCTGTTAAAGCAGAAATCAGACAGCAATTCGTT CCTTGTGCTCAGATGACACACCAATGGTACGACGTGCTGCTGCTCCAAATTTGGTGAAT TGCAAAAGTGTGGAATTAGACAGTGTGAAAAGGGAATTGTTGCCCTGTTGCTAGTCTA GCTCCAGATGAACGGGATTCACTGCGCCTCCTTGGTGGGAGAAGTGGGTATTATTGCC CAATTTTGGCTCAGGGGAACCTTGAAACTTGGGGAGCGCACCTTCCAACAGCGGN
Restriction Sites:	Please inquire
ACCN:	NM_181699
Insert Size:	2097 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_181699.1 , NP_859050.1
RefSeq Size:	2139 bp
RefSeq ORF:	2004 bp
Locus ID:	5519
UniProt ID:	P30154
Cytogenetics:	11q23.1
Protein Families:	Druggable Genome, Phosphatase, Transcription Factors

Protein Pathways: Long-term depression, Oocyte meiosis, TGF-beta signaling pathway, Tight junction, Wnt signaling pathway

Gene Summary: This gene encodes a constant regulatory subunit of protein phosphatase 2. Protein phosphatase 2 is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The constant regulatory subunit A serves as a scaffolding molecule to coordinate the assembly of the catalytic subunit and a variable regulatory B subunit. This gene encodes a beta isoform of the constant regulatory subunit A. Mutations in this gene have been associated with some lung and colon cancers. Alternatively spliced transcript variants have been described. [provided by RefSeq, Apr 2010]
Transcript Variant: This variant (2) differs in the 3' UTR and the 3' coding region, compared to variant 1. The resulting isoform (b) contains a longer and distinct C-terminus compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.