

Product datasheet for **SC127986**

PPP2R1B (NM_002716) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R1B (NM_002716) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPP2R1B
Synonyms:	PP2A-Abeta; PR65B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_002716, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGGCGCATCAGAGCTCGGGACCGGCCAGGAGCAGCGGGTGGAGATGGAGATGATTCGCTATACC
CGATCGCGGGTTTTAATCGACGAGCTCCGCAATGAAGACGTGCAGCTCCGACTCAACAGTATTAAGAAGTT
ATCAACAATTGCCCTAGCACTTGGAGTAGAAAGGACCCGAAGTGAATTGTTGCCATTTCTACAGATACA
ATTTATGATGAAGATGAGGTAATAAGCTCTTGTCTGAGCAGCTGGGAAATTTCACTGGCCTAGTGGGAG
GTCCTGACTTTGCCACTGTCTGCTGCCTCCTTTGGAAAATCTGGCAACTGTGGAAGAGACTGTTGTTCCG
TGACAAGGCTGTGGAGTCCCTGAGACAGATCTCCAGGAGCATACTCCTGTTGCTCTGGAAGCTTATTTT
GTACCTCTGGTGAACGCTTAGCAAGTGGGGATTGGTTCACCTCTCGCACATCTGCATGTGGTTTGTTC
GCGTTTGTCTATCCAGGGCATCAAATGCTGTTAAAGCAGAAAATCAGACAGCAATTCGGTTCCTGTGCTC
AGATGACACACCAATGGTACGACGTGCTGCTGCTTCCAAATGGGTGAATTTGCAAAAGTTTGAATTA
GACAGTGTGAAAAGTGAATTTCCACTGTTCACTAGTCTAGCTTCAGATGAACAGGATTCAGTGCGCC
TCCTTGTGTGGAAGCTTGTGTCAGTATTGCCAGTATTGTCTCAGGATGACCTTGAGACTTTGGTGAT
GCCTACACTTCGACAAGCAGCAGAAGATAAATCTTGGCGGTTGCTATATGGTGCTGACAGATTTTCA
GAGCTCCAGAAAAGCCATGGGTCCTAAAATCACCTAAATGACCTCATCCCCGCCCTTTCAGAACCTACTTA
AAGACTGTGAAGCTGAAGTCCGGGCAGCTGCTGCCACAAAGTAAAAGAAGTTGGTGAGAAGTTGCCCAT
TGAAGATAGAGAGACCATAAATTGAATCAAAATTCGCTTATATAAAGGAATTAGTATCCGATACCAAT
CAACATGTCAAATCGGCTCTAGCTTCTGTAATTTGGGATTGTCTACTATTTGGGCAAAGAAAATACCA
TTGAACATCTTCTACCTCTTTCTAGCTCAGTTAAAGGATGAGTGTCTGACGTTGTTGAATATCAT
CTCCAATTTGGATTGTGTAATGAAGTGAATGGAATCCGTCAGCTCTCTCAGTCTCTCCTTCTGCCATA
GTGGAGCTGGCAGAAGATGCCAAATGGAGGGTCCGCTGCCCATTAGTATATGCTGCTGCTGCTGGCAG
GCCAGCTGGGTGGAATTCCTTTGATGAAAAGCTGAATTCCTTTATGATGGCTTGCTCGTGGACCATGT
ATACGCCATCCGAGAAGCTGCCACCAACAACTCATGAAACTAGTTCAGAAGTTTGGTACAGAGTGGGCC
CAAAATACTATTGTTCCCAAAGTGTAGTAATGGCAAATGATCCTAATTACTTGCATAGAATGACCACTT
TATTCTGCATTAATGCACTGTCTGAGGCCTGTGGTCCAGGAAATACTACTAAGCAAATGTGCCCATCGT
ATTAATAAATGGCAGGAGACCAAGTAGCAAATGTTGCTTCAATGTGGCAAATCTCTACAAAAGATTGGA
CCAATTCTAGATACCAATGCTTTACAGGGAGAAGTGAAGCCAGTACTACAGAAGTTAGGTCAAGATGAAG
ACATGGATGTCAAATACTTTGCACAGGAAGCTATAAGTGTCTTGCATTGGCATAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002716 unedited

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CGGCCGGAATTCGGCACCAGGCGCATCAGAGCTCGGGACCGGCCAGGAGCAGCGGGT
GAGATGGAGATGATTCGCTATACCCGATCGCGGTTTTAATCGACGAGCTCCGCAATGAAG
ACGTGCAGCTCCGACTCAACAGTATTAAGAAGTTATCAACAATTGCCCTAGCACTTGGAG
TAGAAAAGGACCCGAAGTGAATTTGTTGCCATTTCTTACAGATACAATTTATGATGAAGATG
AGGTAATAATAGCTCTTGTCTGAGCAGCTGGGAAATTTCACTGGCCTAGTGGGAGGTCCTG
ACTTTGCCCACTGTCTGCTGCCTCCTTTGGAAAATCTGGCAACTGTGGAAGAGACTGTTG
TTCGTGACAAGGCTGTGGAGTCCCTGAGACAGATCTCCAGGAGCATACTCCTGTTGCTC
TGGAAGCTTATTTTGTACCTCTGGTGAACGCTTAGCAAGTGGGGATTGGTTCACCTCT
CGCACATCTGCATGTGGTTTGTTCAGCGTTTGTATCCAGGGCATCAAATGCTGTTAAA
GCAGAAATCAGACAGCAATTCGGTTCCTTGTGCTCAGATGACACCAATGGTACGACGTG
CTGCTGCTTCCAATGGGTGAATTTGGCAAAGTTTGGATTAGACAGGTGAAAGTGAATTTG
TCACTGCTACTATCTACTTAGATGACAGATTAG
    
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3' Read Nucleotide Sequence:	>OriGene 3' genomic read for NM_002716 unedited GGACGCGGCCGCATTCTATGTGCGAGTTTTTTTTTTTTTTTTTTTTATCCATTGAACACAT TTTTATTGAGCACCTATTATGTGCACCAGACACTGTTCCAGGCACTGGCGATACAGTAGA AGATAAAACAGACAAAAATACCAGCCTTACAGAGCTCCTAAAGCCTATATTCCAGTGAAA TCAAGATAGGAGAACTTTCCCTTAAGTTAAGGTAGTAAAAAATAAGGAGAACTA ATTCATGGAGAACATGGCCAAGTTATGAGCCAAAGCACAATTCCTCTGAAGAGTACCAAA ACAAATTCTCTCTATTGCTTAAGTCAGAAGGAAACAATGAAACCCCTGAGGGTCACC ACAAAAGACAGAGGCCCGCTGAACCCCGACCCATGCTTGAGAAAGCCAGGGCCCACTC TCCTCTCTCAACAGTTTTAGGGTAGAGAAGTCAATGCTTAGGGCTCCTCACTGGGAGA CACAAGGGCATTTTAAAAGTCTGTCCCAAAACAATGGCATTTCACACCAGAGTAAAGCA ATGTTTCCAGTGCAAACTGCTTCATGAAGACAAATGTCTCTCAAATATGAAATTCATG AAGAAGACATAACTTGCGGTAACAAAATATNAGACTCATGAAACTAAAATTTAAATGTTT ACAGAATAATAGCCTAAGATTTAAAATGAGGATATAGAAAAGATTTGGGCTTAGGGAAA TACCTAATTCCTGGCCCAAGGCATAAAAATAGAACTTACTATTAGGTATTTGGGGCGCTT AAAAGCAGACAGATACCTCTGATTAATAATNCTATTTTTCGATTGTAGGCAAATTTTAA GTCTANGAAAACCTTGGTTTTTGACAAAATCAAAGCTTAAAAGGACTTGGGGCTCA CCTAAAAAAGAACTGGTAGATTTAAAGAGGTGGGAACAAATTCACATTTAAAACCAAA GGGGACAGGAACCTATAGGAAGGGAT
Restriction Sites:	NotI-NotI
ACCN:	NM_002716
Insert Size:	4860 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_002716.3</u> , <u>NP_002707.3</u>
RefSeq Size:	5605 bp
RefSeq ORF:	1806 bp
Locus ID:	5519
UniProt ID:	<u>P30154</u>
Cytogenetics:	11q23.1
Domains:	HEAT

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:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes isoform a.</p> <p>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.</p>