

Product datasheet for SC118477

Protein Phosphatase 1 beta (PPP1CB) (NM_002709) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Protein Phosphatase 1 beta (PPP1CB) (NM_002709) Human Untagged Clone
Tag:	Tag Free
Symbol:	Protein Phosphatase 1 beta
Synonyms:	HEL-S-80p; MP; NSLH2; PP-1B; PP1B; PP1beta; PP1c; PPP1beta; PPP1CD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118477 sequence for NM_002709 edited (data generated by NextGen Sequencing)

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ATGGCGGACGGGAGCTGAACGTGGACAGCCTCATCACCCGGCTGCTGGAGGTACGAGGA
TGTCGTCCAGGAAAGATTGTGCAGATGACTGAAGCAGAAGTTCGAGGCTTATGTATCAAG
TCTCGGGAGATCTTTCTCAGCCAGCCTATTCTTTTGAATTGGAAGCACCGCTGAAAATT
TGTGGAGATATTCATGGACAGTATACAGATTTACTGAGATTATTTGAATATGGAGGTTTC
CCACCAGAAGCCAATCTTTTCTTAGGAGATTATGTGGACAGAGGAAAGCAGTCTTTG
GAAACCATTTGTTTGCTATTGGCTTATAAAATCAAATATCCAGAGAACTCTTTCTTAA
AGAGGAAACCATGAGTGTGCTAGCATCAATCGCATTTATGGATTCTATGATGAATGCAAA
CGAAGATTTAATATTAATTTGTGGAAGACCTTCACTGATTGTTTTAACTGTCTGCCTATA
GCAGCCATTGTGGATGAGAAGATCTTCTGTTGTCATGGAGGATTGTCACCAGACCTGCAA
TCTATGGAGCAGATTCGGAGAATTATGAGACCTACTGATGCCCTGATACAGGTTTGCTC
TGTGATTTGCTATGGTCTGATCCAGATAAGGATGTGCAAGGCTGGGGAGAAAATGATCGT
GGTGTTCCTTTACTTTTGGAGCTGATGTAGTCAGTAAATTTCTGAATCGTCATGATTTA
GATTTGATTTGTGCGAGCTCATCAGGTGGTGAAGATGGATATGAATTTTTGCTAAACGA
CAGTTGGTAACCTATTTTTCAGCCCAAATTAAGTGTGGCAGTTTGATAATGCTGGTGA
ATGATGAGTGTGGATGAAACTTTGATGTGTTCAATTCAGATATTGAAACCATCTGAAAAG
AAAGCTAAATACCAGTATGGTGGACTGAATCTGGACGTCCTGTCACTCCACCTCGAACA
GCTAATCCGCCGAAAGAAAAGGTGA

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Clone variation with respect to NM_002709.2
201 a=>g



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002709 unedited</p> <pre>AACTCGNGATTTTGTAAACCCGACTTCACTATAGGGCGGCAGCGCAATTCGGCACGAGGG CGGCGCGCAAGGGACGTGCGGAGTGAGTGGCGCTGCGGGTGGGGCCGTCGGCGGCCTGG TGAGAGAACGCCGAGCCGTGCGCCGAGCCTCCGCCGCGAGAAGCCCTTGTCCCGCTGC TGGGAAGGAGAGTCTGTGCCGACAAGATGGCGGACGGGTATTTGAACGTGGACAGCCTCA TCACCCGGCTGCTGGAGGTACGAGGATGTCGTCCAGGAAAGATTGTCAGATGACTGAAG CAGAAGTTCGAGGCTTATGTATCAAGTCTCGGGAGATCTTTCTCAGCCAGCCTATTCCTT TGGAAATTGGAAGCACCGCTGAAAATTTGTGGAGATATTCATGGACAGTATACAGATTTAC TGAGATTATTTGAATATGGAGGTTTCCACCAGAAGCCAACCTATCTTTTCTTAGGAGATT ATGTGGACAGAGGAAAGCAGTCTTTGAAAACCTTTGTTTGTATTGGCTTATAAAATCA AATATCCAGAGAACTTCTTTCTTTAAGAGGAAACCATGAGTGTGCTAGCATCAATCGCA TTTATGGATTCTATGATGAATGCAAACGAAGATTAATATTAATTTGTTGGAAGACCTTCA CTGATTGTTTTAACTGTCTGCCTATAGCAGCCATTGTGGATGAGAAGATCTTCTGTTGTC ATGGAGGATTGTCACCAGACCTGGCATCTATGGAGCAGATTCCGAGAATTATGAGACCTA CTGATGTCCTGTACAGGGTTGCTCTGTGATTTGCTATGGTCTGATCCAGATNAGGATG TGCAAGGCTGGNNGAGAAATGATCGTGGTGGTTCTTTACTTTTTGGAGCTGATGAGTCA GTAATAATTCTGA</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002709 unedited</p> <pre>CTTGGCCGCGCCGAATCTTTAGTCGAGTTTTTTTTTTTTTTTTTTTTTGGTTTTCTCCTAA GAACCTAGTTTTATTTATTTCAAGGCGTGGTCCAAGCAAATATTTGTAAGAACACATT TTTATGACTGGAGGCTGTTAAGTGGTTTTAAGAGTGCTTGAATAATTTTTAAACATGAT AAATTTCCATCCTTTAAATTTAATGACCAATATTAATTAGCTTAAGTAGTGATTATTTTT TCACATTTAGTCTTTAAAAAAAAAAAAAGGATTCTATTAACCAACATACTTAGTCTTGA CCTGGATGAATTTACAAAAGCCAGACAATGGGATACAGATTAATGTGGTTAATACTGAG ATTAATCAACATTGCCCTTTTTCCCTGCCAAAGGCTATTTTTCTAGACCTGCTTCACTAT GACTACTAAAAGTGTAACAACTAAAATTTTATTAGAAATCGCTCAGCTTACACACTCCAAT CAGGAAGTTATTTAAATCACCTCAGATAAAACCTTTGTGACCTAACCTAATACATCATAT GCAGATCATGAATACTTTAGAAAAGAATCATTCAATATGTCAAGGACATAGTATCTAT GTGAATAAAATGTGTGCCTAAATGTCTCACTGTGAGGAAAAAAAAAATCAGTCAGGCCTT CATATCCATTTAGACAACCTTTTTACTAANATGGAGAAAACCTACCTTTTTAAACTGTGCC TTAAAACCAAAACGGGGATTTAGAAAAAAAAAGCCTATGGCATTTTTTAAAGAACCCTTTT GCCACTGTGCCTGAAAAATGAAATATTCCTTTTGCAGTGAAGGTAATACCAATGTGCGCC ATTCCCTAAAAATGGAAGGTTACCACGGTTTCTCTATTTTACTTTTTCAAAGAACAAT TTATAGGGCCAAAAATGCCCACTCTTTGTGGCCCATATAGAGGGCCTTATAAGAATGG AGGCCCATCCCCTATGAGCCTTAACAATTG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_002709
Insert Size:	3500 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:

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_002709.2](#), [NP_002700.1](#)

RefSeq Size: 4991 bp

RefSeq ORF: 984 bp

Locus ID: 5500

UniProt ID: [P62140](#)

Cytogenetics: 2p23.2

Domains: Metallophos, PP2Ac

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: Focal adhesion, Insulin signaling pathway, Long-term potentiation, Oocyte meiosis, Regulation of actin cytoskeleton, Vascular smooth muscle contraction

Gene Summary: The protein encoded by this gene is one of the three catalytic subunits of protein phosphatase 1 (PP1). PP1 is a serine/threonine specific protein phosphatase known to be involved in the regulation of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractility, protein synthesis, and HIV-1 viral transcription. Mouse studies suggest that PP1 functions as a suppressor of learning and memory. Two alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) represents the longest transcript. It encodes the longer isoform (1).