

## Product datasheet for **SC127982**

### Protein Phosphatase 1 beta (PPP1CB) (NM\_206876) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Protein Phosphatase 1 beta (PPP1CB) (NM_206876) 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><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_206876, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGACGGGGAGCTGAACGTGGACAGCCTCATCACCCGGCTGCTGGAGGTACGAGGATGTCGTCAG
GAAAGATTGTGCAGATGACTGAAGCAGAAGTTCGAGGCTTATGTATCAAGTCTCGGGAGATCTTTCTCAG
CCAGCCTATTCTTTGGAATTGGAAGCACCGCTGAAAAATTTGGGAGATATTCATGGACAATATACAGAT
TACTGAGATTATTTGAATATGGAGTTTCCCACCAGAAGCCAATCTTTTCTTAGGAGATTATGTGG
ACAGAGGAAAGCAGTCTTTGAAACCATTTGTTTGCTATTGGCTATAAAATCAAATATCCAGAGAACTT
CTTTCTCTTAAGAGGAAACCATGAGTGTGCTAGCATCAATCGCATTTATGGATTCTATGATGAATGCAA
CGAAGATTTAATATTAATTTGTGGAAGACCTTCACTGATTGTTTTAACTGTCTGCCTATAGCAGCCATTG
TGGATGAGAAGATCTTCTGTTGTCATGGAGGATTGTACCAGACCTGCAATCTATGGAGCAGATTCGGAG
AATTATGAGACCTACTGATGTCCCTGATACAGTTTGCTCTGTGATTTGCTATGGTCTGATCCAGATAAG
GATGTGCAAGGCTGGGGAGAAAATGATCGTGGTGTTCCTTTACTTTTGGAGCTGATGTAGTCAGTAAAT
TTCTGAATCGTCATGATTTAGATTTGATTTGTCGAGCTCATCAGGTGGTGAAGATGGATATGAATTTT
TGCTAAACGACAGTTGGTAACCTTATTTTCAGCCCAAATTAAGTGGCGAGTTTGATAATGCTGGTGG
ATGATGAGTGTGGATGAACTTTGATGTGTTCAATTCAGATATTGAAACCATCTGAAAAGAAAGCTAAAT
ACCAGTATGGTGGACTGAATTCGGACGTCCTGTCACTCCACCTCGAACGCTAATCCGCCGAAGAAAAG
GTGA

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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_206876 unedited  
 GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGGCGCAGGGACGTG  
 CGGAGTGAGTGGCGCTGCGGGTGGGGCCGTCGGCGGCGCTGGTGAGAGAACGCCGAGCCG  
 TCGCCGACGCCTCCGCCCGGAGAAGCCCTTGTCCCGCTGCTGGGAAGGAGAGTCTGTG  
 CCGACAAGATGGCGGACGGGAGCTGAACGTGGACAGCCTCATCACCCGGCTGCTGGAGG  
 TACGAGGATGTCGTCCAGAAAAGATTGTGCAGATGACTGAAGCAGAAGTTCGAGGCTTAT  
 GTATCAAGTCTCGGGAGATCTTTCTCAGCCAGCCTATTCTTTTGGAAATGGAAGCACCGC  
 TGAAAATTTGTGGAGATATTCATGGACAGTATACAGATTTACTGAGATTATTTGAATATG  
 GAGGTTTCCCACCAAGAAGCCAACATCTTTTCTTAGGAGATTATGTGGACAGAGGAAAGC  
 AGTCTTTGGAAACCATTGTGGCTATTGGCTTATAAAATCAAATATCCAGAGAACTTCT  
 TTCTCTTAAGAGGAAACCATGAGTGTGCTAGCATCAATCGCATTATGGATTCTATGATG  
 AATGCAAACGAAGATTTAATATTAATTTGTGGAAGACCTCACTGATTGTTTTAACTGTC  
 TGCCTATAGCAGCATTGTGGATGAGAAGATCTTCTGTGTCATGGAGGATTGTCACCAG  
 ACCTGNACATCTATGGAGCAGNATTCGAGAATATGAGACCTACTGATGTCCTGATACAGG  
 NTTGCTCTGTGATTTGCTATGGTCTGATCCANATNAGGATGTGCANGGCTGGGGAGAAAT  
 GATCGTGGTGTTCCTTTACTTTGNAGCTGATGTATCAGTAAATTTCTGATCGTCATGAT  
 TA

**3' Read Nucleotide Sequence:**

>Reverse primer walk for NM\_206876 unedited  
 TTTGCGCGGATTGGGTTAGNCACTCTTACTAATGANAACTACTTTAAAAGTGCTTTAA  
 AACAAAACGGATTAGAAAAAAGACATATGCATTTTAAAGAACTTTGCACTGTGCTGAA  
 AATGAAATATCTTTCAGTAAGTAATAACAATGTGCCAATCCATAAAATGTAAGTTAACA  
 GGTTTCTCAATTTAACATTTTCAAAGACGATATTAAGGTCAAAAATGTCACATCTATGGT  
 AGCACATATAGAAGGGCATTATAGATATGATGTCCATCCCTATGAAGCTTACAAAATTTGA  
 CAATGCTCAATAAAAGCTTTTAGAATCACATCCAATAGTGTCCAGTCAAAGAATCACAA  
 ATCTGTGCTCTGTAAGTTCTCTCCTTCTAAAATCTTCATGTTAACTTTTCTACTCATTGC  
 CATTTGTTAATACTAACCCCTTAAAAAAGAAATAGGAAAAGAAAGGCTGCAATAAACTT  
 GATCAGGTACAGAAATTTGCTACTATACTTCACTACAAAGCTTGTCTATACAGTATCA  
 TATGACCTTTGATTATGAAAAAATCAGAATAAAAATCTTTAGTGACATAAGCCTTACAAT  
 CGTATACAACATTACATGGCAATATTAGACAGTTAAGCACCCAATACCCATAGTTGACA  
 AAATGTCCCAGTACCAGCATTCAATTTAATAACATCCTTCGTATAGAGGGAGGAAAAAGA  
 GACAGTGTGAGCTTTCCAAGCCTTGTCAAAAAGGATTCTCATGTACTGTGGAATCTAAA  
 AACAAACAAAACATCAAAAAAATAAAAAATAAAAGTAAAGAAAAGGAACAAGAAACC  
 AATGCCGGTG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_206876

**Insert Size:**

3000 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_206876.1</a> , <a href="#">NP_996759.1</a>
<b>RefSeq Size:</b>	4786 bp
<b>RefSeq ORF:</b>	984 bp
<b>Locus ID:</b>	5500
<b>UniProt ID:</b>	<a href="#">P62140</a>
<b>Cytogenetics:</b>	2p23.2
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Protein Pathways:</b>	Focal adhesion, Insulin signaling pathway, Long-term potentiation, Oocyte meiosis, Regulation of actin cytoskeleton, Vascular smooth muscle contraction
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Both variants encode the same isoform (1).</p>