

Product datasheet for **SC117555**

PP2A-beta (PPP2CB) (NM_004156) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PP2A-beta (PPP2CB) (NM_004156) Human Untagged Clone
Tag:	Tag Free
Symbol:	PP2A-beta
Synonyms:	A1115466; D8Ertd766e; PP2Ac; PP2CB; protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform; protein phosphatase 2a, catalytic subunit, beta isoform
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004156, the custom clone sequence may differ by one or more nucleotides

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ATGGACGACAAGGCGTTACCAAGGAGCTGGACCAGTGGGTCGAGCAGCTGAACGAGTGTAAAGCAGCTGA
ACGAGAACCAAGTGCGGACGCTGTGCGAGAAGGCAAAGGAAATTTAACAAAAGAATCAAATGTGCAAGA
GGTTCGTTGCCCTGTTACTGTCTGTGGAGATGTGCATGGTCAATTTATGATCCTTATGAACTCTTTAGA
ATTGGTGGAAAATCACCGGATACAACTACTTATTCATGGGTGACTATGTAGACAGAGGATATTATTCAG
TGGAGACTGTGACTCTTCTGTAGCATTAAAGGTGCGTTATCCAGAACGCATTACAATATTGAGAGGAAA
TCACGAAAGCCGACAAATTACCCAAGTATATGGCTTTTATGATGAATGTCTGCGAAAGTATGGGAATGCC
AACGTTTGAAAATTTTTACAGATCTCTTTGATTATCTTCCACTTACAGCTTTAGTAGATGGACAGATAT
TCTGCCTCCATGGTGGCCTCTCTCCATCCATAGACACACTGGATCATATAAGAGCCCTGGATCGTTTACA
GGAAGTCCACATGAGGGCCCAATGTGTGATCTGTTATGGTCAGATCCAGATGATCGTGGTGGATGGGGT
ATTTACCACGTTGGTGTGGCTACACATTTGGACAAGACATTTCTGAAACCTTTAACCATGCCAATGGTC
TCACACTGGTTTCTCGTGCCACACAGCTTGAATGGAGGGATACAATTGGTGTGATGATCGGAATGTGGT
TACCATTTTCACTGCACCAATTAATGTTATCGTTGTGGGAACCAGGCTGCTATCATGGAATTAGATGAC
ACTTTAAATATTCCTTCTTCAATTTGACCCAGCGCCTCGCTGGTGGAGCCTCATGTTACACGGCGCA
CCCAGACTACTTCTATAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004156 unedited</p> <pre>GGTCAATATTGTATACGACTCCTAAAGGCGGCCGCGACATCGGCACGATGCGGCGGCCGG GCTTGGGCTCGGGATCCGCATCGGGATCGGGCCGCCATGGACGACAAGGCGTTCACCAAG GAGCTGGACCAGTGGGTCGAGCAGCTGAACGAGTGAAGCAGCTGAACGAGAACCAAGTG CGGACGCTGTGCGAGAAGGCAAAGGAAATTTTAAACAAAAGAATCAAATGTGCAAGAGGTT CGTTGCCCTGTTACTGTCTGTGGAGAATGTGCATGGTCAATTTTCATGATCTTATGGAAT CTTTAAAATTGGTGAAAATCACCGGAAACAACTTACTTATTCATGGGTGACTATGTAG ACAGAGGATATTATTCAGTGGAGACTGTGACTCTTCTTGTAGCATTAAAGGTGCGTTATC CAGAACGCATTACAATATTGAGAGGAAATCACGAAAGCCGACAAATTACCCAAGTATATG GCTTTTAAATGAATAAATGTCTGCGAAAAGTATGGGAATGCCAACGTTTGGAAATATTTTAC AGAATCTCTTTGATTATCTCCACTTACAGCTTTAGTAGAATGGACAGATATTCTGCCTC CATGGTGGCCTCTCTTCATTCATTAGACACACTGGATATATAAAACCTGGATCGTTACA GGAAGTCCACATGAGGCCAATGTGTGATCTGTTATGGTCAAATCAGAATGATCGTGGTG ATGGNNGTATTTACCCACGGGNTGCTGGCTACACATTNTGACAGACATTTCTGGAACCT TTTAAACATGCAATGGTCTCACACTGTTNCTCGTGCCACCAGCTTGTATGGNAGGATA CAATTGNGGCATATCNGGAAAGNGTTACATTTTTNANGGCACCAATTACTGGTTTTNG TTGTGAAACCAGCTT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004156 unedited</p> <pre>NATGGCAACTCCAGGTCCAGAAGAGCACTGGGGAGGGGTACAGGGATGCCACCCGGGA TCTGTTACAGAAACAGCTATGACCGCGCCGAATCTAGAGTTCGAGTTTTTTTTTTTTT TTTTGTTTAAAATGAAAAGTTTATTTGCTGAGTACACCAATAGGATGCAAGCACTGTCA TGACAAATATACAGAAATATGCAGATCAACATAAAACAGTAATTTAGTTTAAATGAAGGG AAATCTCTTTAAATGTTATGACAACATACTCCCAAGAAGAACCTTTTCTTCAGTTAAGTT AATTATACATTTCAATAAAATAAAGGATAATGGATTAGTGAAGTTAGCTTGTGAATTTT TCTTAAAAATAAACTCCAACCTATTAATCCATGCCAGTTAAACACTATAACTAAAAAT TCCAAATAAGCGCAAAAAGGAGATGAAGCAGTTAGTTACCTTTTTTGCTTGAACAGTCCAA AGGAAAATGGTTACTATAAATACAGCAGGCAAACTGTTAGACTGACCTAGAACATAGTGT ACTAAATTTTCAGTCTCAAATTGTGCTAAATGCTCATCATTAGTATGGCACATTTGGTCCA TGATGTGGTTTAAATGCCAAGACAGATCCCAATTTGTTACAGAAACCATAGATTACTGGTG CTTTTTGTTTTTAAATACATATATTTTAAAAGCCAGGTATACTTCCACATACAAGGCNNAG TTTCCAGNAGAATTATANCGAAGTACTCTGGGTGGCGCGTGTACATGAGGCTCACACGAC GAGCGCTGGGTCAATGAAGGAGGATTTTAAAGTGGTATTATTCTGAAGAACTGGTCACA CGAAAGAATTGGTGCCTGAAAGTACATTC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004156
Insert Size:	1600 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_004156.2](#), [NP_004147.1](#)

RefSeq Size: 1807 bp

RefSeq ORF: 930 bp

Locus ID: 5516

Cytogenetics: 8p12

Domains: Metallophos, PP2Ac

Protein Families: Druggable Genome, Phosphatase

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

Gene Summary: This gene encodes the phosphatase 2A catalytic subunit. Protein phosphatase 2A 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. This gene encodes a beta isoform of the catalytic subunit. [provided by RefSeq, Mar 2010]

Transcript Variant: This variant (1) represents the shorter transcript. Both variants 1 and 2 encode the same protein.