

Product datasheet for **SC328776**

PPP2R1B (NM_001177563) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R1B (NM_001177563) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPP2R1B
Synonyms:	PP2A-Abeta; PR65B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC328776 representing NM_001177563.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGGGCGCATCAGAGCTCGGGACCGGCCAGGAGCAGCGGGTGGAGATGGAGATGATTTCGCTATAC
CCGATCGCGGTTTTAATCGACGAGCTCCGCAATGAAGACGTGCAGCTCCGACTCAACAGTATTAAGAAG
TTATCAACAATTGCCCTAGCACTTGGAGTAGAAAGGACCGAAGTGAATTGTTGCCATTTCTTACAGAT
ACAATTTATGATGAAGATGAGGTACTATTAGCTCTTGCTGAGCAGCTGGGAAATTTCACTGGCCTAGTG
GGAGGTCTGACTTTGCCCACTGTCTGCTGGATTCACTGCGCCTCCTTGCTGTGAAGCTTGTGTCACT
ATTGCCAGTTATTGTCTCAGGATGACCTTGAGACTTTGGTGATGCCTACACTTCGACAAGCAGCAGAA
GATAAATCTTGGCGGTTTCGCTATATGGTGGCTGACAGATTTTCAGAGCTCCAGAAAGCCATGGTCCT
AAAATCACCTAAATGACCTCATCCCCGCTTTCAGAACCTACTTAAAGACTGTGAAGCTGAAGTCCGG
GCAGCTGCTGCCACAAAGTAAAGAATTGGTGAGAACTTGCCATTGAAGATAGAGAGACCATAATT
ATGAATCAAATTCGCCTTATATAAAGGAATTAGTATCCGATACCAATCAACATGTCAAATCGGCTCTA
GCTTCTGTAATTATGGGATTGTCTACTATTTTGGGCAAAGAAAATACCATTGAACATCTTCTACCTCTT
TTCTTAGCTCAGTTAAAGGATGAGTGTCTGACGTTTCGTTTGAATATCATCTCCAATTTGGATTGTGTA
AATGAAGTGATTGGAATCCGTCAGCTCTCTCAGTCTCTCCTTCTGCCATAGTGGAGCTGGCAGAAGAT
GCCAAATGGAGGGTCCGCTGGCCATCATTGAGTATATGCCGCTGCTGGCAGGCCAGCTGGGTGTGGAA
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GCTGCCACCAACAACCTCATGAACTAGTTCAGAAGTTTGGTACAGAGTGGGCCCAAAATACTATTGTT
CCCAAAGTGTTAGTAATGGCAAATGATCCTAATTACTTGCATAGAATGACCACTTTATTCTGCATTAAT
GCACTGCTGAGGCCTGTGGTCAGGAAATACTACTAAGCAAATGCTGCCATCGTATTAATAATGGCA
GGAGACCAAGTAGCAAATGTTTCGCTTCAATGTGGCCAAATCTCTACAAAAGATTGGACCAATTTAGAT
ACCAATGCTTTACAGGGAGAAGTGAAGCCAGTACTACAGAAGTTAGGTCAAGATGAAGACATGGATGTC
AAATACTTTGCACAGGAAGCTATAAGTGTCTTGCATTGGCATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001177563

Insert Size: 1425 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001177563.1</u>
RefSeq Size:	5224 bp
RefSeq ORF:	1425 bp
Locus ID:	5519
UniProt ID:	<u>P30154</u>
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
MW:	52.2 kDa
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 (5) lacks two in-frame exons in the 5' coding region compared to variant 1. The resulting isoform (e) is shorter than 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.</p>