

Product datasheet for **SC127993**

PPP2R5D (NM_180976) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | PPP2R5D (NM_180976) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PPP2R5D |
| Synonyms: | B56D; B56delta; MRD35 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL6</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_180976, the custom clone sequence may differ by one or more nucleotides

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ATGCCCTATAAACTGAAAAAGGAGAAGGAGCCCCCAAGTTGCCAAATGCACAGCCAAGCCTAGCAGCT
CGGGCAAGGATGGTGGAGGCGGAGAACACTGAGGAGGCCAGCCGAGCCCCAGCCCCAGCCCCAGCCCCA
AGCCAGTCTCAGCCACCGTCAACAACAGCGTCCCAGCAATAGCACGCCGCCCCACGCAGCTCAGC
AAAATCAAGTACTCAGGGGGGCCCCAGATTGTCAAGAAGGAGCTGTTTATCCAGAAGCTACGCCAGTGCT
GTGTCCTCTTTGACTTCGTGTCAGACCCACTCAGTGACCTCAAATTCAAGGAGGTGAAGCGGGCAGGACT
CAACGAGATGGTGGAGTACATCACCCATAGCCGTGATGTTGTCAGTGGGCCATTTACCCTGAGGCTGTC
ACCATGTTTTTTCAGTGAACCTCTCCGGACGCTGCCACCTTCATCGAATCCACAGGGGCTGAGTTTGACC
CAGAGGAAGATGAGCCCACCTGGAAGCTGCTTGGCCACATCTCCAGCTCGTGTATGAGTTCTTCTTACG
TTTCTTGAGTCTCCTGATTTCCAGCCAAACATAGCCAAGAAGTACATCGACCAGAAGTTTGTACTTGCT
CTCCTAGACCTATTTGACAGTGAGGATCCTCGAGAGCGGGACTTCTCAAGACCATTTTGCATCGCATCT
ATGGCAAGTTTTTGGGGCTCCGGGCTTATATCCGTAGGCAGATCAACCACATCTTCTACAGTTTCATCTA
CGAGACGGAGCATCACAACGGGATTGCTGAGCTCCTGGAGATCCTGGGCAGCATCATCAATGGCTTTGCC
CTGCCCTTAAAGAAGAGCACAAGATGTTCTCATCCGTGTCCTACTTCCCTTCAAGGTCAGTCCC
TGAGTGTCTACCACCCTCAGCTGGCATACTGTGTGGTACAATTCTTGAGAAGGAGAGCAGTCTGACTGA
GCCGGTAATTGTGGGACTTCTCAAGTTTTGGCCCAAGACCCACAGCCCCAAGGAGGTGATGTTCTTGAAT
GAGCTGGAGGAGATTCTGGACGTCATTGAACCTTCTGAGTTCAGCAAAGTATGGAACCCCTCTCCGCC
AGCTGGCAAGTGTGCTCTAGCCCCATTTCCAGGTGGCAGAGCGTGTCTCTATTACTGGAACAATGA
GTACATCATGAGCCTGATAAGTGACAATGCTGCCGAGTCTCCCATCATGTTCCCTGCACCTCTACAGG
AATCCAAGGCCACTGGAACAAGACAATCCATGGACTGATCTATAATGCCCTGAAGTTGTTTATGGAAA
TGAAATCAGAAGCTGTTTGTGACTGCACACAACAATAACAAGGCAGAGAAGCAGAAGGGCCGGTTCCGAAT
GAAGGAAAGGGAAGAGATGTGGCAAAAAATCGAGGAGCTGGCCCGGCTTATCCCAAGTATCCCATGTTT
CGAGCCCCCTCCACCCTGCTGACTCGATGGAGACAGAGACCCCAAGCTGAGGACATCCAGC
TTCTGAAGAGGACTGTGGAGACTGAGGCTGTTCCAGATGCTAAAAGACATCAAGAAGGAGAAAAGTGTGCT
GCGGAGGAAGTCGGAGCTGCCCCAGGACGTGTACACCATCAAGGCACTGGAGGCGCACAGCGGGCGGAA
GAGTTCTAACTGCCAGCCAGGAGGCTCTCTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_180976 unedited

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TCCCGCCCCGTTGNCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGA
GCTCATTTAGGTGACACTATAGAATAACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAAT
TCGGCACGAGGTGACCCGGGCGCAGCGCGAGGCGGTGGCGAAGAGACGCCGAGCGGGC
CGAGTGGCGCCGAGCAAAGCCGGAGCCGGAGCGGGGCCGAGGAGACGGGCCGGTCCGG
ACGGGCCGAGATGCCCTATAAACTGAAAAAGGAGAAGGAGCCCCCAAGTTGCCAAATG
CACAGCCAAGCCTAGCAGCTCGGGCAAGGATGGTGGAGGCGAGAACACTGAGGAGCCCA
GCCGACGCCCCAGCCCCAGCCCCAGCCCCAAGCCAGTCTCAGCCACCGTCAACAACA
GCGTCCCAGCAATAGCACGCCGCCCCACGCAGCTCAGCAAAATCAAGTACTCAGGGGG
GCCCCAGATTGTCAAGAAGGAGCTGTTTATCCAGAAGCTACGCCAGTGTGTCTCTT
TGACTTCGTGTCAGACCCACTCAGTGACCTCAAATTCAAGGAGGTGAAGCGGGCAGGACT
CAACGAGATGGTGGAGTACATCACCCATAGCCGTGATGTTGTCAGTGGGCCATTTACC
TGAGGCTGTACCATGTTTTTTCAGTGAACCTCTCCGGACGCTGCCACCTTCATCGAATCC
CACAGGGGCTGAGTTTGACCCAGAGGAAGATGAGCCACCTGGNAGCTGTTGCCACAT
CTNCAGCTCGTGTATGAGTCTTCTTACGTTTCTTGGAGTCTNCTGATTTTCCAGCCAACA
TAGCCCAAGTACATCGACCAGAAGTTTGTACTTGTCTTCTAGACCTATTTGACAGTG
AGGNATTTCTCGAGAGCGGNACTTTCTTCCAGACATTTTGCATCGCATCTTGGNCAGTTT
TTTGGCTTCGGNCTTTT
    
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| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_180976 unedited NCCCATCCGATGGGTCCATTGGCGATGGTCAACTTCCCAGNCCAGNGAGCACTGGGG NAGTGGGTACAGGGCATGCCACCCGGGCATCTGTTTCAGGAAAAGCTATGACCGCGGCCG CAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCTCAGAGACCCACTTTATTTCAGTTCTG TACATATGGGGACATCGGTCCAAGCCCAACCCACCTTAGCATGTATCACTCTGTGGAGAA TAAAGCACCCCTATGTACACAGCCAAAAGCCGCACTGCCTGCGCCCCTGGAACCTGGTCC GGCTTTCCTCAGCCCCTGGCCCCTCCAAGGTACCTATAAGGGACAAGAGAAGGCCTGCC AGCATAGCACAAACAAGGAAATAAATAGGTGTTGGCAGGAGCCATGCTTGGGGCACCCT CCCTGTTCTTTCTTTCTAGTTTTGGGAAACCAACAGCACAGAAAAGCAGTCAGCCCCAGG GTGGTCCCTTCCATGTCTGTGACCCAGGGCTGCTGCTCACAAAGACAGGGCACGGGT AGGGTGTATTATTCATCCCTCCCCGGCCCACTTGGTCCATCTGGGCCCTATATTCATCAG TTATTGTCCACAGCCTATACTTTTCTCCTTTTGACCTCCCTTGGTCAGGCATGGGTAAG AAGAAATAATACAACCCTATCTGCCAGCACACGGCTGGGACTGGGGGCCTATTTGTCT GCAGGGGGTTGGCTTCCCTTCAGCTACTCTGGGACCAATGGGGCTTGACATAACTTTGG TGAGAATAATCTCTGCTGTTCCCTACATGCCTCTGCAGGGGAAAAGAGAGGAAGGGNAG ATACCTGGCGTTCAAC |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_180976 |
| 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). |
| 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_180976.1</u> , <u>NP_851307.1</u> |
| RefSeq Size: | 2871 bp |
| RefSeq ORF: | 1713 bp |
| Locus ID: | 5528 |
| UniProt ID: | <u>Q14738</u> |
| Cytogenetics: | 6p21.1 |
| Protein Families: | Phosphatase |
| Protein Pathways: | Oocyte meiosis, Wnt signaling pathway |

Gene Summary:

The product of this gene belongs to the phosphatase 2A regulatory subunit B family. 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. The B regulatory subunit might modulate substrate selectivity and catalytic activity. This gene encodes a delta isoform of the regulatory subunit B56 subfamily. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) lacks an in-frame segment of the coding region, compared to variant 1. It encodes a shorter isoform (2), that is missing an internal segment compared to isoform 1.