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# Product datasheet for SC125495

## PPP2R3A (NM_002718) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | PPP2R3A (NM_002718) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | PPP2R3A |
| **Synonyms:** | PPP2R3; PR72; PR130 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL4 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**Fully Sequenced ORF:**

>OriGene ORF sequence for NM_002718 edited
CACGAGGGGGCCTGCGGGTGGCTGGGCGGGGCGCGCTCGGGCCTCCGCTCTTCACGCGCC
GCATTCGTAGCCCGAGAGTCCGCGCCGCGGGGAGGCTTGGAGGCAAGCGCTGCCCGCGAG
CTGAGCCGCCGGAGGAGGAGCCGCGGGCAACGAGGTTTCTCTGTCATTCACAGAAAAATG
AATCATTTAAACCTTTGGAGGACTCAGTTATCACAATACTTCTCTACTACCAACTAAGAT
TTATGATAGTAAATTTATGAGAGCAAATTTCCATGTTATAGAACTGTTGAAGAACTAAAA
GAGGATATTCTTTCATCAAAATAATTCTGCAGTATCATAATATTACTAAATAAAATTAAA
AAGCACAATTATTAAATTATTAAATTTGCCACACATGTGCAGCAGCTACTGTATCCTGAT
AGTGACCAAACCTCAAATATAAATGGTTTCCCTTCATGGGAAAAGCCATTATATTTGGAA
GAAACCACTGAACATTGTTATTAAATATATTTTCAGCTAACTGTCATTTAGGAGAATTTT
CATGAAACAAGTTCTAGAAAGTTCCAAGTCCCACCAGTAAGTGGATTTGATATTATGGCA
GCAACTTACAGACTTGTGGTTAGTACTGTGAACCACTACAGCAGCGTGGTGATAGACCGG
CGTTTTGAACAAGCTATACATTATTGCACTGGAACCTGCCACACCTTCACACATGGAATT
GACTGCATTGTGGTACACCATAGTGTTTGTGCAGACCTCTTGCACATCCCTGTGTCTCAG
TTCAAAGATGCAGATCTGAACTCTATGTTTCTACCCCATGAAAATGGGCTTTCTTCGGCT
GAAGGAGACTATCCCCAACAGGCCTTCACAGGCATACCCAGGGTCAAGAGAGGATCTACA
TTTCAGAATACCTACAACTTAAAGGATATTGCAGGAGAAGCAATCAGTTTTGCCAGTGGG
AAAATAAAAGAATTTTCCTTTGAAAAACTCAAAAACTCTAACCATGCAGCTTACAGAAAG
GGAAGGAAAGTTAAGTCTGACTCATTTAATAGGAGGTCAGTTGATTTGGACTTGCTTTGT
GGCCATTATAACAACGATGGGAACGCCCCATCCTTTGGTTTACTGCGGAGTTCCTCAGTT
GAGGAAAAACCTTTGTCTCATAGAAACTCACTGGATACGAACCTGACTTCCATGTTTCTT
CAAAACTTTTCTGAAGAAGACTTGGTTACTCAGATTTTGGAAAAACATAAAATAGATAAT
TTTTCTTCTGGGACAGACATAAAGATGTGCTTGGACATCTTATTGAAATGCTCCGAGGAT
TTAAAAAAATGCACAGACATCATAAAACAATGCATAAAGAAAAAATCAGGGAGTAGCATC
AGTGAAGGAAGTGGTAATGATACAATTTCTAGCTCTGAAACTGTCTATATGAATGTAATG
ACCAGGTTAGCATCCTATCTGAAAAAGTTACCATTTGAATTCATGCAGTCTGGGAATAAT
GAGGCTCTAGATTTAACAGAACTGATCAGTAATATGCCTAGCTTACAACTGACTCCCTTC



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TCCCCAGTGTTTGGCACTGAACAACCCCCTAAATATGAAGATGTTGTCCAGCTCTCAGCT
TCTGACTCTGGACGATTTCAAACTATTGAATTGCAAAATGACAAGCCTAATTCTAGGAAG
ATGGACACTGTACAATCCATTCCAAACAACTCCACAAATTCCTTATATAACTTAGAGGTA
AATGATCCTAGAACTCTAAAAGCTGTCCAGGTCCAATCACAGTCATTAACCATGAATCCT
TTAGAAAATGTTTCTTCTGACGACTTAATGGAAACTCTTTATATTGAAGAAGAGTCAGAT
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ACCCCAATGCAAAATGAAATTGGTAAGATATTTGAGAAATCATTTGTTAATCTACCTAAG
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CACAGTCAGTTGACCGGTCAGACCCTTGTAGATCTTGAGCCTAAATCTAAAGTCTCTTCA
CCCATAGAAAAAGTCTCACCTTCCTGTCTAACAAGGATTATTGAAACCAATGGACACAAA
ATAGAGGAAGAGGATCGAGCCCTCTTACTGCGAATCCTGGAAAGCATTGAAGACTTTGCT
CAAGAACTAGTTGAATGCAAATCAAGCAGAGGGAGCCTATCACAAGAAAAGGAAATGATG
CAAATTCTACAGGAAACCTTGACAACTTCCTCCCAGGCCAATTTATCAGTCTGTAGAAGT
CCTGTTGGTGATAAAGCCAAAGATACTACTTCAGCAGTTTTGATTCAGCAGACTCCAGAG
GTGATCAAGATTCAAAATAAACCAGAAAAGAAACCTGGAACACCACTCCCACCTCCAGCC
ACCTCTCCAAGTAGTCCCCGACCTCTCTCCCCGGTTCCCCATGTGAATAATGTTGTGAAT
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AAAGCAGACATTTATGAAATGGGGAAAATTGCAAAGGTCTGTGGCTGTCCTCTCTATTGG
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TTCATTGCCATGTGGAGAAAGTTGCTGAATAACCATCATGATGATGCCTCTAAATTCATC
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CAGGATGTGGTGGATACCCACCCTGGTCTCACGTTCCTGAAAGATGCTCCAGAATTCCAC
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GAAGAAGAGGAAGATATAAACCAAATTACAGATTACTTCTCCTATGAACATTTCTATGTT
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TGGTTTTTGATCTCTGAAGAAGACAAAAGGAATCCTACCAGCATTGAGTATTGGTTCCGC
TGCATGGATGTGGATGGAGACGGTGTACTCTCCATGTATGAGCTGGAGTACTTCTATGAG
GAGCAGTGTGAACGGATGGAAGCCATGGGAATTGAGCCCTTGCCATTCCATGATTTACTG
TGCCAGATGCTTGACCTAGTGAAGCCAGCTGTTGATGGCAAAATAACTCTAAGAGATCTG
AAGAGGTGCAGAATGGCTCACATCTTCTATGACACTTTCTTTAATCTGGAGAAATACTTA
GACCATGAACAGAGAGATCCCTTTGCGGTCCAGAAGGATGTTGAGAACGATGGGCCTGAG
CCCTCAGACTGGGACCGGTTTGCCGCTGAGGAGTATGAGACGCTTGTTGCAGAGGAATCT
GCCCAAGCACAATTCCAGGAAGGCTTTGAAGATTATGAAACAGATGAACCTGCCTCTCCC
TCTGAATTTGGAAACAAAAGCAATAAAATATTAAGTGCAAGCCTTCCAGAGAAATGTGGA
AAGCTTCAATCAGTGGATGAAGAATAGCTGCCGGTGTCTACAATGAAACGAAGATGTGTA
TTTTAAATGTTTCTTTCTTGTGAAGAGATGTTCTCGTTTGCATACTGCTTTTTAAAGACT
TTGATTTCTCCAAGTGTGTATCATCTGCACTAGGAACTTTGTTTTTAAGCAATAGGTCTG
GATACACATTTAACTTA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_002718 unedited
TCACTATAGGCGGCCGCGNAATTCGCACGAGGGGGCCTGCGGGTGGCTGGGCGGGGCGCG
CTCGGGCCTCCGCTCTTCACGCGCCGCATTCGTAGCCCGAGAGTCCGCGCCGCGGGGAGG
CTTGGAGGCAAGCGCTGCCCGCGAGCTGAGCCGCCGGAGGAGGAGCCGCGGGCAACGAGG
TTTCTCTGTCATTCACAGAAAAATGAATCATTTAAACCTTTGGAGGACTCAGTTATCACA
ATACTTCTCTACTACCAACTAAGATTTATGATAGTAAATTTATGAGAGCAAATTTCCATG
TTATAGAACTGTTGAAGAACTAAAAGAGGATATTCTTTCATCAAAATAATTCTGCAGTAT
CATAATATTACTAAATAAAATTAAAAAGCACAATTATTAAATTATTAAATTTGCCACACA
TGTGCAGCAGCTACTGTATCCTGATAGTGACCAAACCTCAAATATAAATGGTTTCCCTTC
ATGGGAAAAGCCATTATATTTGGAAGAAACCACTGAACATTGTTATTAAATATATTTTCA
GCTAACTGTCATTTAGGAGAATTTTCATGAAACAAGTTCTAGAAAGTTCCAAGTCCCACC
AGTAAGTGGATTTGATATTATGGCAGCAACTTACAGACTTGTGGTTAGTACTGTGAACCA
CTACAGCAGCGTGGTGATAGACCGGCGTTTTGAACAAGCTATACATTATTGCACTGGAAC
CTGCCACACCTTCACACATGGAATTGACTGCATTGTGGTACACCATAGTGTTTGTGCAGA
CCCTCTGCACATCCCTGTGNTCTCAGTCAAGATGCAGATCTGAACTCTATGTTTCTACCC
ATGAAAAGGGGNCTTCTTCGCTGAGGAGACTATCCCAC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_002718 unedited
ATGGTTCCACCAGGGCATGCCCACCCCGGGTATCTTGTTTCAGCAAACACCTATGAACCG
CCGGCCCGCCAATCCTAAATCCGAGTTTTTTTTTTTTTTTTTGTATTTCTATCTGAAAT
GAAATAATTGCTTTTCTTCCCTGGTAAAGGCTGGATGGATTGGTAAGAGATTTCATTTAT
CACATAAATAATCTTAATCTTAATAATTTATCAGTGTGTTTAGATTTTGAATATTGTGTT
TCCTAAAAATTATTTTTAAGCTTTTAATTCTTTTGTGTGAACTATTAGATAGTTGCAATA
GTTACTGCTTTCTGTAATAGTTAAATGGAAGATCAGTTCTAATCATGAAGATAAAATGAC
AGGGAACTGGGAGCTTGTGACAGGCAGGATTCCTAGGATTGTTAACTCTCACTGTACTGT
ACCTTGTTTATAGCATATTTATTTCCTAAATTCTCCTTTTCTTTTTGCCTACCATAACTC
TAACCCAAGGTTCATTTTACTGCTTTGCCTTTATGCCGCCAGGAAGGAACCTAGTTAGGG
TGGAAAGGGGANCCTATCCTTGCCCTTTCANACCTGTTTTAANAAAATTTCAGGCGAAAA
ATTTANGTCCGGCCGAAGGNTNTTTATTTTTCTTGGGNNTTTTTCCCATTACNGNANGAT
CNNCCCCTTTTNTTATNCGCACTTTACTGCAACNCATTGAGTTATCAAGATCTCTNATCG
CACCTGCCAGTTCGANNTACTTGTGCGTACTANAACATATTTCNAGNCCTATATCTCTCC
TGGTATCTAAGATATATATAGTTACTCCCTATGCNGAAATCGCGACACAGACAACTAATT
TTCTTTCATTTATGGCTCATAAGACCTCATNCGACGCTCTACGTTCAT

**Restriction Sites:** NotI-NotI

**ACCN:** NM_002718

**Insert Size:** 6000 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).

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_002718.3, NP_002709.2 |
| **RefSeq Size:** | 6762 bp |
| **RefSeq ORF:** | 3453 bp |
| **Locus ID:** | 5523 |
| **UniProt ID:** | Q06190 |
| **Cytogenetics:** | 3q22.2-q22.3 |
| **Domains:** | EFh |
| **Protein Families:** | Druggable Genome, Phosphatase |
| **Gene Summary:** | This gene encodes one of the regulatory subunits of the protein phosphatase 2. Protein phosphatase 2 (formerly named type 2A) is one of the four major Ser/Thr phosphatases and is implicated in the negative control of cell growth and division. Protein phosphatase 2 holoenzymes are heterotrimeric proteins composed of a structural subunit A, a catalytic subunit C, and a regulatory subunit B. The regulatory subunit is encoded by a diverse set of genes that have been grouped into the B/PR55, B'/PR61, and B''/PR72 families. These different regulatory subunits confer distinct enzymatic specificities and intracellular localizations to the holozenzyme. The product of this gene belongs to the B'' family. The B'' family has been further divided into subfamilies. The product of this gene belongs to the alpha subfamily of regulatory subunit B''. Alternative splicing results in multiple transcript variants encoding different isoforms.[provided by RefSeq, Jun 2010]<br>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1), also known as isoform beta or isoform PR130. |