

Product datasheet for **SC107146**

PPP2R4 (PTPA) (NM_178000) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R4 (PTPA) (NM_178000) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPP2R4
Synonyms:	PP2A; PPP2R4; PR53
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_178000, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGAGGGCGAGCGGCAGCCGCCAGATTCTTCAGAGGAGGCCCTCCAGCCACTCAGAATTCA
TCATTCCAAAAAGGAGATCCACACAGTTCAGACATGGGCAAATGGAAGCGTTCTCAGGCATACGCTGA
CTACATCGGATTCATCCTTACCCTCAACGAAGGTGTGAAGGGGAAGAAGCTGACCTTCGAGTACAGATC
TCCGAGGCCATTGAGAACTAGTCGCTTCTCAACACGCTGGACAGGTGGATTGATGAGACTCCTCCAG
TGGACCAGCCCTCTCGGTTTGGGAATAAGGCATACAGGACCTGGTATGCCAACTTGATGAGGAAGCAGA
AACTTGGTGGCCACAGTGGTCCCTACCCTCTGGCAGCTGCTGTGCCTGAGGTGGCTGTTACCTAAAG
GAGTCAGTGGGGAAGTCCACGCGCATTGACTACGGCACAGGGCATGAGGCAGCCTTCGCTGCTTTCCTCT
GCTGTCTCTGCAAGATTGGGGTGTCCGGTGGATGACCAATAGCTATTGTCTTCAAGGTGTTCAATCG
GTACCTTGAGGTTATGCGGAAACTCCAGAAAACATACAGGATGGAGCCAGCCGGCAGCCAGGGAGTGTGG
GGTCTGGATGACTTCCAGTTTCTGCCCTTCATCTGGGGCAGTTCGCAGCTGATAGACCACCACATCTGG
AGCCCAGACACTTGTGGATGAGAAGGCCGTGAATGAGAACCACAAGGACTACATGTTCTGGAGTGTAT
CCTGTTTATTACCGAGATGAAGACTGGCCATTTGCAGAGCACTCCAACAGCTGTGGAACATCAGCGCC
GTCCTTCTGGTCCAAAGTGAACGAGGTCTCATCCGCATGTATAAGGCCGAGTGCCTGGAGAAGTTC
CTGTGATCCAGCACTTCAAGTTCGGGAGCCTGCTGCCATCCATCCTGTACGTCGGGCTAG
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_178000 unedited TCCCGCCCCGTTGNCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGA GCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAAT TCGGCACGAGGCCGGTCCGCGCGTCCGCCGCGCGCCGGCCGTTAATAGGCTTGCTCCCT GAGCGCCCCGACCGACATGGCGGCCGTCTCGCTGTGGTGACTTAACTCTCGTTTTTC GGTTATAGCCGGCCGGCCTCACTTGTCTTCAGGAAGCTCGGAGCCTTTGGTGGAGCCGG GGAGAGGAAGGGTGGGTGCAAGAGTAAAAGGCGAGAGGGGACTGCAAGCATCCGGTCCG CTCCTGGCCGGAGCAAGATGGCTGAGGGCGAGCGCAGCCGCCAGATTCTTCAGAGG AGGCCCTCCAGCCACTCAGAACTTCATCATTCCAAAAAGGAGATCCACACAGTTCCAG ACATGGGCAAATGGAAGCGTTCTCAGGCATACGCTGACTACATCGGATTCATCCTTACCC TCAACGAAGGTGTGAAGGGGAAGAAGCTGACCTTCGAGTACAGAGTCTCCGAGGCCATTG AGAACTAGTCGCTCTTCTCAACACGCTGGACAGGTGGATTGATGAGACTCTCCAGTGG ACCAGCCCTCTCGGTTTGGGAATAAGGCATACAGGACCTGNTATGCCAACTTGATGAGG AAGCAGAACACTTGGTGGCCACAGTGGTCCCTACCCATCTGGCAGCTGCTGTGCCTGAGG TGGCTGTTTACCTAAAGGAGTCAGTGGGAAACTCACGCCATTGACTACGGCACAGGGC ATGAGGCAGCCTTCGCTGCTTCTCTGCTGTCTGTCAGAAANTGGNGTGTNCNGNNTG GATGACCANNATAGCTATGTCTTTCACGGTGTCAATCGGTACCTTTGAGTTATGCNGN AACTNCACGAAACATACAGGATGGAGCCAGNCGCN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_178000 unedited TCCAGTGGGGACTCATTGGCGATGGTCAACCTTCCCATGNCCAGNGAGAGCACTGGGGNA GGGGTACACAGGGCATGCCACCCGGTCTGTATCAGNAAACAGCTATGACCGCGGCCGC AATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGACAGGTGCAAAACAGAGGCTTTAATCT GAACAGCAATGAGGGTGAAGGGCTGGGAGCCATAGGGGGATGGGGGAGCCAGGAAGG GGTGTCTGGCCCTGGGAGAGAGGTGGACCTGGGCCTTCTGAGAACTGTCACTGACC TTTGGGACTCCTGACCCAGCCTCTGCCAGACCATCACCGGATCCCAGGCTGAGCCCTG TGCTGTGCTTCTCAGTGTCCCCCTTCTGAAGGGTGTGTGGACCCAGACACAGGAGGGG GCAGTGGAGAAGGGCAGGCTGGGGGACGAGCCTGTAAGAGCCAGGCCAGGAACAGCCC TAGGAGAAAACCTCGGCGGTGGCCCTCAATGGGCCTGCCAGCCCCACTGGGCCATTCT TGAGTGCCAAAGCCTGGGCTTGGGAGGCTGTCACTTACCTCACCTATAAAAGCAATGGA CAGTTTCAGGGAGGTGGGAGGACAAGGTGTGGGACTGCCACCTTCTGGGCCACCCATCAC CCAGGGGAGCAGANAAGCAGGGCCAGGGCCAGGGTGAAGGCTCACAGCAGCGCAAAGG TAGCAGAAGTGGCTGGGCCTAAGACTGCCAAGAGGAATCCAGGCTCTCCAGATACATGG GCCCAAGCCCCTCCCTGAGTTTCTGCCATCCCCTCCCTGCCAGGGAAAGTTCTGGAAAA GACATGCTCACCCATCATCTGGGCCCTCCAGGACCCAGCACCTACCCAAAGGGCAG CTTCCAT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_178000
Insert Size:	2550 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_178000.1](#), [NP_821067.1](#)

RefSeq Size: 2736 bp

RefSeq ORF: 972 bp

Locus ID: 5524

UniProt ID: [Q15257](#)

Cytogenetics: 9q34.11

Protein Families: Druggable Genome, Phosphatase

Gene Summary: Protein phosphatase 2A is one of the four major Ser/Thr phosphatases and is implicated in the negative control of cell growth and division. Protein phosphatase 2A 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 holoenzyme. The product of this gene belongs to the B' family. This gene encodes a specific phosphotyrosyl phosphatase activator of the dimeric form of protein phosphatase 2A. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) lacks one of the coding exons compared to transcript variant 1. It maintains the reading frame and encodes a protein (isoform b), also known as isoform alpha, that is missing an internal segment of the protein compared to isoform a. Variants 2 and 3 encode the same isoform.