

Product datasheet for **SC320605**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_178000.1
 GGAGGAAGGAGGAGGTCACCGTCCAGCTGTCTCTCCCCTGCCCCACATGTCTTCTAAGC
 TGTTGGAGCCGGCCGGCGCTCACTTGTCTTCAGGAAGCTCGGAGCCTTTGGTGGAGCCGG
 GGAGAGGAAGGGTGGGTGCAAGAGTGAAAGGCGAGAGGGGACTGCAAGCATCCGGGTCGG
 CTCTGGCCGGAGCAAGATGGCTGAGGGCGAGCGGCAGCCGCCAGATTCTTCAGAGG
 AGGCCCCCTCCAGCCACTCAGAATTTCATCATTCCAAAAAGGAGATCCACACAGTTCAC
 ACATGGGCAAAATGGAAGCGTTCTCAGGCATACGCTGACTACATCGGATTATCCTTACCC
 TCACGAAGGTGTGAAGGGGAAGAAGCTGACCTTCGAGTACAGAGTCTCCGAGGCCATTG
 AGAAACTAGTCGCTCTTCTCAACACGCTGGACAGGTGGATTGATGAGACTCCTCCAGTGG
 ACCAGCCCTCTCGGTTTGGGAATAAGGCATACAGGACCTGGTATGCCAACTTGATGAGG
 AAGCAGAAAATTGGTGGCCACAGTGGTCCCTACCCATCTGGCAGCTGCTGTGCCTGAGG
 TGGCTGTTTACCTAAAGGAGTCACTGGGAACTCCACGCGCATTGACTACGGCACAGGGC
 ATGAGGCAGCCTTCGCTGCTTCTCTGCTGTCTCTGCAAGATTGGGGTCTCCGGGTGG
 ATGACCAATAGCTATTGTCTTCAAGGTGTTCAATCGGTACCTTGAGGTTATGCGGAAAC
 TCCAGAAAACATACAGGATGGAGCCAGCCGGCAGCCAGGGAGTGTGGGGTCTGGATGACT
 TCCAGTTTCTGCCTTTCATCTGGGGCAGTTCGACAGCTGATAGACCACCCATACCTGGAGC
 CCAGACACTTTGTGGATGAGAAGCCGTGAATGAGAACCACAAGGACTACATGTTCTCTGG
 AGTGTATCCTGTTTATTACCGAGATGAAGACTGGCCCATTTGCAGAGCACTCCAACCAGC
 TGTGGAACATCAGCGCCGTCCTTTCCTGGTCCAAAGTGAACCAGGGTCTCATCCGCATGT
 ATAAGGCCGAGTGCTGGAGAAGTTCCTGTGATCCAGCACTTCAAGTTCGGGAGCCTGC
 TGCCCATCCATCCTGTACGTCGGGCTAGGAGGGGCAAGCCGAAGGCCACCCGGGCCA
 CAGTTCCTGTGCCTGCCTTCCCCACCCAGCAGTGGCCCTCCCCATCCCCTCCCTCTGT
 TCGTCCCCTTTGATGAGAGGCTGTTTACTGGGGTGGGGTGGCGAGATGGGCTTGAGGGGG
 CTCAGAGCATAAAGCTTTCAGGGCCCAAGTTGGGAGAAGTGACCAAAGTGTAGCCAGTTTT
 CTGAGTTCCTCGTGTCTAGACTGGCCAGAAGAGAGGGTCTGGGGCCTGGTCACTCGGCCA
 CTCTCTCTGTTTCTGGCCTCTTCTCCCTTCACTCCCCTCCAGTCTGGTTTTGAGAGCAG
 GGGCTGTTCTGCAGCACCTCAGGGAAGGGAGGAGAGATACCTGCTGCTTCCATTGCTTTT
 CCCTTCTGGAGTCGATGCCTTCTAAGGGTGGAGCTGCTCCTTGCAGGGGCGGGTCAG
 TTTCCAGGCCATGCCGGGTGGCCATCTATGCTAGGGCTGGAAGCTGAGGCTGGCCGCC
 AGCTGTGGGCTGGGGTGGGGTGGGTGGGGTGGGTGGTGGAGAGGCTTAGCTGCTCTGG
 CTGGTGGCCCTCCAGGCTCCTTTTACCCTGCCCTGGGCTGAGGCCCTCTGTGTC
 AAGCCTCCCCCTGGCTCTTCAGTTCTTAGCCCTTGGCTTTGCTGGGTTTCTGACTGTA
 GCCACATCTCTCCGCTCCCTAAGGGTAACCTAGCCAATGGAAGCTGCCCTTTGGGTAGG
 TGCTGGGCTCCTGGGAGGGCCAGATGATGGGGTGAAGCATGTCTTCCAGAACTTTCC
 TGGCAGGGAGGGGATGGCAGAACTCAGGGAGGGGCTTGGGGCCATTGTATCTGGAGAG
 CCTGGATTCTCTTGGCAGTCTTAGGCCAGCCACTTCTGCTACCTTTGCGCTGCTGTGA
 GCCTCACCTGGGCCCTGGGCCCTGCTTCTGCTCCCTGGGTGATGGGTGGGCCAG
 AAGGTGGCAGTCCACACCTTGTCTCCACCTCCCTGAACTGTCCATTGCTTTTATAGG
 GTGAGGTAAGTGACAGCCTCCCAAGCCAGGCTTGGCACTCAGAATGGGCCAGTGGGG
 GCTGGGCAGGCCATTGAGGGCCACCGCCGAGGTTTCTCCTAGGGCTGTTCTGGGCCTG
 GCTCTTACAGGCTCGTCCCCAGGCTGCCCTTCTCCTACTGCCCTCCTGTGTCTGGGT
 CCACACACCTTTCAGGAAGGGGAGCACTGAGAAGCACAGCACAGGGGCTCAGCTGGGA
 TCCGGTATGGTCTGGGCAGAGGCTGGGTGAGGAGTCCCAAAGGTGAGTACAGTTTCTC
 AGAAGAGGCCAGCGTCCACCTCTCTCCAGGGCCAGACACCCCTTCTGGCTCCCCAT
 CCCCCTATGGGCTCCAGCCCTTGCACCCTCATTGCTGTTTCAAGCTTCTGTTT
 TGCACCTGTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_178000

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_178000.1</u> , <u>NP_821067.1</u>
RefSeq Size:	2736 bp
RefSeq ORF:	972 bp
Locus ID:	5524
UniProt ID:	<u>Q15257</u>
Cytogenetics:	9q34.11
Protein Families:	Druggable Genome, Phosphatase
Gene Summary:	<p>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]</p> <p>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.</p>