

Product datasheet for **SC321401**

PP2A-alpha (PPP2CA) (NM_002715) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PP2A-alpha (PPP2CA) (NM_002715) Human Untagged Clone
Tag:	Tag Free
Symbol:	PP2A-alpha
Synonyms:	NEDLBA; PP2Ac; PP2CA; PP2Calpha; RP-C
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_002715.2
 CTCTGGAGCCTCAGCGAGCGGAGGAGGCGCAGCGGCCGACGGCCGAGTACTGCGGTG
 AGAGCCAGCGGGCCAGCGCCAGCCTCAACAGCCGCCAGAAGTACACGAGGAACCGGCGGC
 GGCGTGTGCGTGTAGGCCCGTGTGCGGGCGGGCGCGGGAGCAGCGGGAGCGGCAGCC
 GGCTGGGGCGGGTGGCATCATGGACGAGAAGGTGTTACCAAGGAGCTGGACCAGTGGAT
 CGAGCAGCTGAACGAGTGAAGCAGCTGTCCGAGTCCCAGGTCAAGAGCCTCTGCGAGAA
 GGCTAAAGAAATCCTGACAAAAGAATCCAACGTGCAAGAGTTCGATGTCCAGTTACTGT
 CTGTGGAGATGTGCATGGGCAATTCATGATCTCATGGAAGTGTAGAAATGGTGGCAA
 ATCACCAGATACAAATTACTTGTATGGGAGATTATGTTGACAGAGGATATTATTCAGT
 TGAACAGTTACTACTGCTTGTAGCTCTTAAGGTTGTTACCGTGAACGCATCACCATTCT
 TCGAGGGAATCATGAGAGCAGACAGATCACACAAGTTTATGGTTTCTATGATGAATGTTT
 AAGAAAATATGGAATGCAAATGTTTGGAAATATTTTACAGATCTTTTGGACTATCTTCC
 TCTCACTGCCCTTGGTGGATGGGCAGATCTTCTGTCTACATGGTGGTCTCTGCCATCTAT
 AGATACTGGATCATATCAGAGCACTTGATCGCCTACAAGAAGTCCCCATGAGGGTCC
 AATGTGTGACTTGTGTGGTCCAGATCCAGATGACCGTGGTGGTGGGGTATATCTCTCG
 AGGAGCTGGTTACACCTTGGGCAAGATATTTCTGAGACATTTAATCATGCCAATGGCCT
 CACGTTGGTGTCTAGAGCTCACCAGCTAGTGATGGAGGGATATAACTGGTGCCATGACCG
 GAATGTAGTAACGATTTTCACTGCTCCAACTATTGTTATCGTTGTGTAACCAAGCTGC
 AATCATGGAACCTGACGATACTCTAAAATCTCTTTTTCGAGTTTGACCCAGCACCTCG
 TAGAGGCGAGCCACATGTTACTCGTCTGACCCAGACTACTTCTGTAATGAAATTTTAA
 ACTTGTACAGTATTGCCATGAACCATATATCGACCTAATGGAAATGGGAAGCAACAGT
 AACTCAAAGTGTGAGAAAATAGTTAACATTCAAAAACCTGTTTTTACATGGACCAAAA
 GATGTGCCATATAAAAATACAAAGCCTTGTGCATCAACAGCCGTGACCACTTTAGAATG
 AACCCAGTTCATTGCATGCTGAAGCGACATTGTTGGTCAAGAAACCAAGTTTCTGGCATAGC
 GCTATTTGTAGTTACTTTTCTCTGAGAGACTGCAGATAATAAGATGTAACATTA
 ACACCTCGTGAATACAATTTAATTCCATTTAGCTATAGCTTTACTCAGCATGACTGTAG
 ATAAGGATAGCAGCAAACAATCATTGGAGCTTAATGAACATTTTTAAAAATAATTACAA
 GGCCTCCCTTCTACTTGTGAGTTTTGAAATTTGTTCTTTTTATTTTTCAGGGATACCGTTT
 ATTTAATTATATGATTTGTCTGCACTCAGTTTATCCCTACTCAAATCTCAGCCCCATGT
 TGTCTTTGTTATTGTCAGAACCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 CCTGTAAGACGATGTGACTGCACAAGAGCACTGCAGTGTTTTTTATAATAAATTTGTGAA
 CTAGAAGTGAAGGTCAAATTTAATTGTATCAATGGCAAGACTGGTGTGTTTATT
 AAAAAAGTTAAATCAATTGAGTAAATTTAGAATTTGTAGACTTTGAGGTAATAAAAA
 TCAAGGGCACTACATAACCTCTCTGGTAACTCCTTGACATTCTTCAGATTAACCTCAGGA
 TTTATTTGATTTTACATATTACAATTTGTACATTGTTGGTGTGCACCTTTGTGGGTTCT
 TCCTGCATATAACTTGTGTTGTAAGAAAGGAAATCTGTGCTGCTTCAGTAAGACTTAATT
 GTAACCATATAACTTGAGATTAAGTCTTTGGGTTTTGTTTTAATAAAACAGCATGTT
 TTCAGGTAGAGCTTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002715

Insert Size: 930 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:	NM_002715.2 , NP_002706.1
RefSeq Size:	2643 bp
RefSeq ORF:	930 bp
Locus ID:	5515
UniProt ID:	P67775
Cytogenetics:	5q31.1
Domains:	Metallophos, PP2Ac
Protein Families:	Druggable Genome, Phosphatase, Transcription Factors
Protein Pathways:	Long-term depression, Oocyte meiosis, TGF-beta signaling pathway, Tight junction, Wnt signaling pathway
Gene Summary:	<p>This gene encodes the phosphatase 2A catalytic subunit. 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. This gene encodes an alpha isoform of the catalytic subunit. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). 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>