

## Product datasheet for **SC320858**

### PPP2R1A (NM\_014225) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R1A (NM_014225) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPP2R1A
Synonyms:	MRD36; PP2A-Aalpha; PP2AA; PP2AAALPHA; PR65A
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\_014225.3  
 GGCACGAGGCAGCGCTGGCCGACGTCTGACAGGAAAGGGACGGAGCCAAGATGGCGGCGG  
 CCGACGGCGACGACTCGCTGTACCCCATCGCGGTGCTCATAGACGAACTCCGCAATGAGG  
 ACGTTTCAGCTTCGCCTCAACAGCATCAAGAAGCTGTCCACCATCGCCTTGGCCCTTGGGG  
 TTGAAAGGACCCGAAGTGAGCTTCTGCCTTTCCTTACAGATACCATCTATGATGAAGATG  
 AGTCCCTCCTGGCCCTGGCAGAACAGCTGGGAACCTTCACTACCCTGGTGGGAGGCCAG  
 AGTACGTGCACCTGCCTGCTGCCACCGCTGGAGTCGCTGGCCACAGTGGAGGAGACAGTGG  
 TCGGGGACAAGGCAGTGGAGTCCTTACGGGCCATCTCACACGAGCACTCGCCCTCTGACC  
 TGGAGGCGCACTTTGTGCCGCTAGTGAAGCGGCTGGCGGGCGGCACTGGTTACCTCCC  
 GCACCTCGGCCTGCGGCCTCTTCTCCGTCTGCTACCCCGAGTGTCCAGTGTGTGAAGG  
 CGGAACCTCGACAGTACTTCCGGAACCTGTGCTCAGATGACACCCCATGGTGGCGGGG  
 CCGCAGCCTCCAAGCTGGGGGAGTTTGCCAAGGTGCTGGAGCTGGACAACGTCAAGAGTG  
 AGATCATCCCATGTTCTCCAACCTGGCCTCTGACGAGCAGGACTCGGTGCGGCTGCTGG  
 CGGTGGAGGCGTGCCTGAACATCGCCAGCTTCTGCCCCAGGAGGATCTGGAGGCCCTGG  
 TGATGCCCACTCTGCGCCAGGCCGCTGAAGACAAGTCTGGCGGCTCCGTACATGGTGG  
 CTGACAAGTTCACAGAGCTCCAGAAAGCAGTGGGGCCTGAGATACCAAGACAGACCTGG  
 TCCTGCCTTCCAGAACCTGATGAAAGACTGTGAGGCCGAGGTGAGGGCCGACGCTCCC  
 ACAAGGTCAAAGAGTTCTGTGAAAACCTCTCAGCTGACTGTCCGGGAGAATGTGATCATGT  
 CCCAGATCTTGCCTGCATCAAGGAGCTGGTGTCCGATGCCAACCAACATGTCAAGTCTG  
 CCCTGGCCTCAGTCATCATGGGTCTCTCTCCCATCTTGGGCAAAGACAACACCATCGAGC  
 ACCTCTTGCCCTCTTCTGGCTCAGCTGAAGGATGAGTGCCTGAGGTACGGCTGAACA  
 TCATCTTAACCTGGACTGTGTGAACGAGGTGATTGGCATCCGGCAGCTGTCCCAGTCCC  
 TGCTCCCTGCCATTGTGGAGCTGGCTGAGGACGCCAAGTGGCGGGTGGGCTGGCCATCA  
 TTGAGTACATGCCCTCCTGGCTGGACAGCTGGGAGTGGAGTTCTTTGATGAGAACTTA  
 ACTCCTTGTGCATGGCCTGGCTTGTGGATCATGTATATGCCATCCGCGAGGCAGCCACCA  
 GCAACCTGAAGAAGCTAGTGGAAAAGTTTGGGAAGGAGTGGGCCCATGCCACAATCATCC  
 CCAAGGTCTTGGCCATGTCCGGAGACCCCAACTACCTGCACCGCATGACTACGCTCTTCT  
 GCATCAATGTGCTGTCTGAGGTCTGTGGGCAGGACATCACCACCAAGCACATGCTACCCA  
 CGGTTCTGCGCATGGCTGGGGACCCGGTTGCCAATGTCCGCTTCAATGTGGCCAAGTCTC  
 TGCAGAAGATAGGGCCCATCCTGGACAACAGCACCTTGCAGAGTGAAGTCAAGCCCATCC  
 TAGAGAAGCTGACCCAGGACCAGGATGTGGACGTCAAATACTTTGCCAGGAGGCTCTGA  
 CTGTTCTGTCTCTCGCCTGATGCTGGAAGAGGAGCAAACACTGGCCTCTGGTGTCCACCC  
 TCCAACCCCCACAAGTCCCTCTTTGGGGAGACACTGGGGGGCCTTTGGCTGTCACTCCCT  
 GTGCATGGTCTGACCCAGGCCCTTCCCCCAGCACGGTTCCTCCTCTCCCCAGCCTGGG  
 AAGATGTCTCACTGTCCACCTCCAACGGGCTAGGGGAGCACGGGTTGGACAGGACAGT  
 GACCTTGGGAGGAAGGGGCTACTCCGCCACGTGAGGGAGAGATGTGAGCATCCCGGGTC  
 ACTGGATCCTGTGCTGTAATGGGAACCCCTCCCCATTTACTTCTCCACCTCCCGTCT  
 CCCCATCATTGGTTTTTTTTTGTGTGTCAACTGTGCCGTTTTTATTTTATTCCTTTTATT  
 TTCCCCCTTTTACAGAGAAATAAAGGTCTAGAAGTAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_014225

**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).

<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_014225.3</a> , <a href="#">NP_055040.2</a>
<b>RefSeq Size:</b>	2357 bp
<b>RefSeq ORF:</b>	1770 bp
<b>Locus ID:</b>	5518
<b>UniProt ID:</b>	<a href="#">P30153</a>
<b>Cytogenetics:</b>	19q13.41
<b>Domains:</b>	HEAT, HEAT_PBS
<b>Protein Families:</b>	Druggable Genome, Phosphatase, Transcription Factors
<b>Protein Pathways:</b>	Long-term depression, Oocyte meiosis, TGF-beta signaling pathway, Tight junction, Wnt signaling pathway
<b>Gene Summary:</b>	<p>This gene encodes a constant regulatory subunit of protein phosphatase 2. Protein phosphatase 2 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 constant regulatory subunit A serves as a scaffolding molecule to coordinate the assembly of the catalytic subunit and a variable regulatory B subunit. This gene encodes an alpha isoform of the constant regulatory subunit A. Alternatively spliced transcript variants have been described. [provided by RefSeq, Apr 2010]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the functional protein.</p>