

## Product datasheet for **SC110980**

### 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:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC110980 sequence for NM\_014225 edited (data generated by NextGen Sequencing)

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ATGGCGGCGGCCGACGGCGACGACTCGCTGTACCCCATCGCGGTGCTCATAGACGAACTC
CGCAATGAGGACGTTTCAGCTTCGCCTCAACAGCATCAAGAAGCTGTCCACCATCGCCTTG
GCCCTTGGGGTTGAAAGGACCCGAAGTGAGCTTCTGCCTTTCCTTACAGATACCATCTAT
GATGAAGATGAGTCTCTCTGGCCCTGGCAGAACAGCTGGGAACCTTCACTACCTGGTG
GGAGGCCAGAGTACGTGCACTGCCTGCTGCCACCGCTGGAGTCGCTGGCCACAGTGGAG
GAGACAGTGGTGCGGACAAGGCAGTGGAGTCCTTACGGCCATCTCACACGAGCACTCG
CCCTCTGACCTGGAGGCGCACTTTGTGCCGCTAGTGAAGCGGCTGGCGGGCGGCGACTGG
TTCACCTCCCGCACCTCGGCCTGCGGCCTTTCTCCGTCTGCTACCCCGAGTGTCCAGT
GCTGTGAAGGCGGAACTTCGACAGTACTTCCGGAACCTGTGCTCAGATGACACCCCATG
GTGCGGCGGGCCGAGCCTCCAAGCTGGGGGAGTTTGCCAAGGTGCTGGAGCTGGACAAC
GTCAAGAGTGAGATCATCCCATGTTCTCCAACCTGGCCTCTGACGAGCAGGACTCGGTG
CGGCTGCTGGCGTGGAGGCGTGCCTGAACATCGCCAGCTTCTGCCCCAGGAGGATCTG
GAGGCCCTGGTGTGCCACTCTGCGCCAGGCCGCTGAAGACAAGTCTGGCGCTCCGC
TACATGGTGGCTGACAAGTTCACAGAGCTCCAGAAAGCAGTGGGGCTGAGATCACAAG
ACAGACCTGGTCCCTGCCTTCCAGAACCTGATGAAAGACTGTGAGGCCGAGGTGAGGGCC
GCAGCCTCCACAAAGGTCAAAGAGTTCTGTGAAAACCTCTCAGCTGACTGTCCGGAGAAT
GTGATCATGTCCAGATCTTGCCTGCATCAAGGAGCTGGTGTCCGATGCCAACCAACAT
GTCAAGTCTGCCCTGGCCTCAGTCAATGAGTCTCTCTCCATCTTGGGCAAAGACAAC
ACCATCGAGCACCTTTGCCCTCTTCTGGCTCAGCTGAAGGATGAGTGCCTGAGGTA
CGGCTGAACATCATCTCTAACCTGGACTGTGTAACGAGGTGATTGGCATCCGGCAGCTG
TCCCATCCCTGCTCCCTGCCATTGTGGAGCTGGCTGAGGACGCCAAGTGGCGGGTCCGG
CTGGCCATCATTGAGTACATGCCCTCCTGGCTGGACAGCTGGGAGTGGAGTTCTTTGAT
GAGAACTTAACCTTGTGCATGGCCTGGCTTGTGGATCATGTATATGCCATCCGCGAG
GCAGCCACCAGCAACCTGAAAGAGCTAGTGGAAAAGTTTGGGAAGGAGTGGGCCCATGCC
ACAATCATCCCAAGGTCTTGGCCATGTCCGGAGACCCCAACTACCTGCACCGCATGACT
ACGCTCTTCTGCATCAATGTGCTGTCTGAGGTCTGTGGGCAGGACATCACCACCAAGCAC
ATGCTACCCACGGTTCTGCGCATGGCTGGGGACCCGGTTGCCAATGTCCGCTTCAATGTG
GCCAAGTCTCTGCAGAAGATAGGGCCCATCCTGGACAACAGCACCTTGCAGAGTGAAGTC
AAGCCCATCTAGAGAAGCTGACCCAGGACCAGGATGTGGACGTCAAATACTTTGCCCGAG
GAGGCTGACTGTTCTGTCTCTCGCCTGA
    
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Clone variation with respect to NM\_014225.5

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_014225 unedited

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NGGTTTCAGGATTTTGTNATACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGTGGC
CGCATCTGACAGGAAGGGACGGAGCCAAGATGGCGGCGGCCGACGCGACGACTCGCTGT
ACCCCATCGCGGTGCTCATAGACGAACTCCGCAATGAGGACGTTTCAGCTTCGCCTCAACA
GCATCAAGAAGCTGTCCACCATCGCCTTGGCCCTTGGGGTTGAAAGGACCCGAAGTGAGC
TTCTGCCTTTCCTTACAGATACCATCTATGATGAAGATGAGGTCTCTTGGCCCTGGCAG
AACAGCTGGAACTTCACTACCCTGGTGGGAGGCCAGAGTACGTGCACTGCCTGCTGC
CACCGCTGGAGTCGCTGGCCACAGTGGAGGAGACAGTGGTGGGACAAGGCAGTGGAGT
CCTTACGGGCCATCTCACACGAGCACTCGCCCTCTGACCTGGAGGCGCACTTTGTGCCGC
TAGTGAAGCGGCTGGCGGGCGGCGACTGGTTACCTCCCGCACCTCGGCCTGCGGCCTCT
TCTCCGTCTGCTACCCCGAGTGTCCAGTGTGTGAAGGCGGAATTCGACAGTACTTCC
GGAACCTGTGCTCAGATGACACCCCATGGTGGCGGGGCCGAGCCTCCAAGCTGGGGG
AGTTTGCCAAGGTGCTGGAGCTGGACAACGTCAAGAGTGAGATCATCCCATGTTCTCCA
ACCTGGCCTCTGACGAGCAGGACTCGGTGCGGCTGCTGGCGGTGGNAGCGTGCCTGAACA
TCGCCCAGCTTCTGCCCCAGNAGGATCTGGAGGCCCTGGTGTGCCACTCTGCGCCAGG
CCGCTGAAGACAGTCTGGCGGCTNCGCTACATGGTGGCTGACAGNTCACAGAGTCCA
GAAAGCATGG
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_014225 unedited GGCCGCATTCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTACTTCTAAACCTTTATTTCTCT GTGAAAAGGGGAAAATAAAAGGAATAAAATAAAACGGCACAGTTGACACACAAAAAA AACCAATGATGGGGAGGACGGGAGGTGGAGAAGTAAATGGGGGAGGGGTTCCATTACAG CAGCAGGATCCAGTGACCCGGGATGCTCACATCTCTCCCTGACGTGGGCGGAGTAGCCCC TTCCTCCCAAGGTCACCTGCTCTCCAACCCCGTCTCCCTAGCCCGTTGGGAGGTGGA CAGTGAGACATCTTCCCAGGCTGGGGAGAGGAGGAACCGTGTGGGGGAAGGGGCCTGGG GTCAGACCATGCACAGGGAGTGACAGCCAAAGGCCCCCAAGTGTCTCCCAAGAGGGAC TTGTGGGGGTTGGAGGTGGACACCAGAGGCCAGTGTGCTCCTCTTCCAGCATCAGGC GAGAGACAGAACAGTCAGAGCCTCCTGGGCAAAGTATTTGACGTCCACATCCTGGTCTGT GGTCAGCTTCTTAGGATGGGCTTGACTTCCCTCTGCAAGGCGCTGTTGTCCACGATGGG CCCTATCTTTCGACAGACTTGGCCCCATTGAATCGGACATTGGCAACCGGGTCCCCAGC CATGCCCTAACCGTGGGTACCCCGTCTCGGTGGTGATGCCCCGCCCATACACCTTAT ATAGTCCCTCGCCCCAAACACCGTTTCTGCCCCCTGGTTCTCGGGTCTTTCTGAC ATGGCCAAACCTTGCGGCTATTTGCTGTCTGGCCCCCTTTTCCACCCTCCCTGTC TTCTAGGCCCTGCCGGTGCCTTCCGCTGACCCACCCGCCGAATCCAGCCTTCCC CCGATCAACCTCTTCATATCCCCTTTCTCCCGTTTACCCCAATCCTTGCCTCCCCCCC CCCATCAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014225
<b>Insert Size:</b>	2240 bp
<b>OTI Disclaimer:</b>	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>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>