

## Product datasheet for **SC121908**

### PPP2R1A (BC001537) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R1A (BC001537) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPP2R1A
Synonyms:	alpha isoform of regulatory subunit A, protein phosphatase 2; medium tumor antigen-associated 61 KDA protein; MGC786; PP2A, subunit A, PR65-alpha isoform; PP2A, subunit A, R1-alpha isoform; PR65A; protein phosphatase 2 (formerly 2A), regulatory subunit A
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:** >NCBI ORF sequence for BC001537, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCGGCCGACGGCGAGCTCGCTGTACCCCATCGCGGTGCTCATAGACGAACCTCCGAATGAGG
ACGTTTCAGCTTCGCCTCAACAGCATCAAGAAGCTGTCCACCATCGCCTTGGCCCTTGGGGTTGAAAGGAC
CCGAAGTGAGCTTTCGCTTTCCTTACAGATACCATCTATGATGAAGATGAGGTCTCCTGGCCCTGGCA
GAACAGCTGGGAACCTTCACTACCCTGGTGGGAGGCCAGAGTACGTGCACTGCCTGCTGCCACCGCTGG
AGTCGCTGGCCACAGTGGAGGAGACAGTGGTGGCGGACAAGGCAGTGGAGTCCTTACGGGCCATCTCACA
CGAGCACTCGCCCTCTGACCTGGAGGCGCACTTTGTGCCGCTAGTGAAGCGGCTGGCGGGCGGCGACTGG
TTCACCTCCCGCACCTCGGCCTGCGGCCTTTCTCCGCTGCTACCCCGAGTGTCCAGTGTGTGAAGG
CGGAACCTCGACAGTACTCCGGAACCTGTGCTCAGATGACACCCCATGGTGGCGGGGCCGAGCCTC
CAAGCTGGGGGAGTTTGCCAAGGTGCTGGAGCTGGACAACGTCAAGAGTGAAGTATCCCATGTTCTCC
AACCTGGCCTCTGACGAGCAGGACTCGGTGGCGTGTGGCGGTGGAGGCGTGGTGAACATCGCCACG
TTCTGCCCCAGGAGGATCTGGAGGCCCTGGTGTGCCACTCTGCGCCAGGCCGTAAGACAAGTCTG
GGCGTCCGCTACATGGTGGCTGACAAGTTCACAGAGCTCCAGAAAGCAGTGGGGCTGAGATACCAAG
ACAGACCTGGTCCCTGCCTTCCAGAACCTGATGAAAGACTGTGAGGCCGAGGTGAGGGCCGAGCCTCCC
ACAAGGTCAAAGAGTTCTGTGAAAACCTCTCAGCTGACTGTGGGAGAATGTGATCATGTCCCAGATCTT
GCCCTGCATCAAGGAGCTGGTGTCCGATGCCAACCAACATGTCAAGTCTGCCCTGGCCTCAGTCATCATG
GGTCTCTCTCCCATCTTGGGCAAAGACAACACCATCGAGCACCTTTGCCCTCTTCTGGCTCAGCTGA
AGGATGAGTGCCTGAGGTACGGCTGAACATCATCTAACCTGGACTGTGTGAACGAGGTGATTGGCAT
CCGGCAGCTGTCCAGTCCCTGCTCCCTGCCATGTGGAGCTGGTGGAGACCCAAGTGGCGGGTGGCG
CTGGCCATCATTGAGTACATGCCCTCTGGCTGGACAGCTGGGAGTGGAGTTCTTTGATGAGAACTTA
ACTCCTTGTGCATGGCCTGGCTTGTGGATCATGTATATGCCATCCGCGAGGCAGCCACCAGCAACCTGAA
GAAGCTAGTGGAAAAGTTTGGGAAGGAGTGGGCCATGCCACAATCATCCCCAAGGTCTTGGCCATGTCC
GGAGACCCCAACTACCTGCACCGCATGACTACGCTCTTCTGCATCAATGTGCTGTCTGAGGTCTGTGGG
AGGACATCACCACCAAGCACATGCTACCCACGGTTCTGCGCATGGCTGGGGACCCGGTTGCCAATGTCCG
CTTCAATGTGGCCAAGTCTCTGCAGAAGATAGGGCCCATCTGGACAACAGCACCTTGCAGAGTGAAGTC
AAGCCCATCTAGAGAAGCTGACCCAGGACCAGGATGTGGACGTCAAATACTTTGCCAGGAGGCTCTGA
CTGTTCTGTCTCTCGCTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for BC001537 unedited

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AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTCTGACAGGAAAGGACGGA
GCCAAGATGGCGGCGGCCGACGGCGAGCTCGCTGTACCCCATCGCGGTGCTCATAGAC
GAACTCCGCAATGAGGACGTTTCAGCTTCGCCTCAACAGCATCAAGAAGCTGTCCACCATC
GCCTTGGCCCTTGGGGTTGAAAGGACCCGAAGTGAAGCTTCTGCCTTTCCTTACAGATACC
ATCTATGATGAAGATGAGGTCTCCTGGCCCTGGCAGAACAGCTGGGAACCTTCACTACC
CTGGTGGGAGGCCAGAGTACGTGCACTGCCTGCTGCCACCGCTGGAGTCTGCTGGCCACA
GTGGAGGAGACAGTGGTGGCGGACAAGGCAGTGGAGTCCTTACGGGCCATCTCACACGAG
CACTCGCCCTCTGACCTGGAGGCGCACTTTGTGCCGCTAGTGAAGCGGCTGGCGGGCGGC
GACTGGTTCACCTCCCGCACCTCGGCCTGCGGCCTTTCTCCGCTGCTACCCCGAGTG
TCCAGTGTGTGAAGGCGGAACCTCGACAGTACTTCCGGAACCTGTGCTCAGATGACACC
CCCATGGTGGCGGGGCCGAGCCTNCAAGCTGGNGGAGTTTGCCAAGGTGCTGGAGCTG
GNACACGTCAAGAGTGAAGTATCATCCCCATGTCTCCAACCTGGCCTCTGACGAGCANGAC
NNTCGTGGCTGCTGGCNGNGGNNAGCTTGCCATAACATCNCCAGCTTCTGCCCCAGGA
GATCTGGAGGCCCTGNGGATGCCACTCTGCGCCACCGCTGAAAACAGTCTTGGCGCG
TCCGCTACATGTTGCTGACAAGTACAGAGCTCAAAGCAGGGGGCTGAAATCACCAGA
AGAACTGGTCCCTGCTCCAAACCTGATGAAGACTGGAGGCGAGGTGANGCCC
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for BC001537 unedited TTTCTCTGTGAAGGGGAAATAAAGGATAAATAAAACGGCACAGTTGACACACAAAAA AACCAATGATGGGGAGGACGGGAGGTGGAGAAGTAAATGGGGGAGGGTTCCATTACAG CAGCAGGATCCAGTGACCCGGGATGCTCACATCTCTCCCTGACGTGGGCGGAGTAGCCCC TTCCTCCCAAGGTCAGTGCCTGTCCAACCCCGTGTCCCTAGCCCGTTGGGAGGTGGA CAGTGAGACATCTTCCAGGCTGGGGAGAGGAGGAACCGTGCTGGGGGAAGGGCCTGGG GTCAGACCATGCACAGGGAGTGACAGCCAAAGGCCCCCAAGTGTCTCCCAAGAGGGAC ACGTGGGGTTGGAGGGTGGACACCAGAGGCCAGCGTTTGTCTCTTCCAGCATCAGGC GAGAGACAGAACAGTCAGAGCCTCCTGGGCAAAGTATTTGACGTCCACATCCTGGTCCTG GGTGAGCTTCTAGGATGGGCTCGACTTCACTCTGCCAGGTGCTGTTGCCAGGATGGG CCCTATCCTCTGAACAGACTTGGCCACATTGAAGCCGGACATTGGCACCCCGTCCCCAC CTTGCCATTACCGTGGGCACCCGTGTGCTTGTGGTGAGGTCTTGCTACAGACCTATTAC GTACAATTGCGCCTAAAACTTTCCCTGCCGCTCCGGTAACTGGGCCCTCCCGCCTTG GCCCACACCTTTGGGAAAATTTGCCCTGGGCCCCCTCCTTCCCAACTTTTCCACTACCC TTTTCAGGTTTCTCGGTGCTGTCTCCGCGTGGGTTTACTCATTCCCAACCTCGCCACTC ACTCGATTACCCCCACACCAACTTCCCCCCCCCTTCTCCCGAGTATTATACCACA CGGTACCCCCCTCTCCTGGCGTCCCCCCACCCCTTCATCCCTGAACCCCTGGACACT TCTCCGCCCTCTTTCTCCATTCTCTATCCTCCTCCTCCCCAGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	BC001537
<b>Insert Size:</b>	2390 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="#">BC001537.2</a> , <a href="#">AAH01537.1</a>
<b>RefSeq Size:</b>	2282 bp
<b>Locus ID:</b>	5518
<b>Cytogenetics:</b>	19q13.41
<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

**Gene Summary:**

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]