

## Product datasheet for **SC106948**

### PPP1R16B (NM\_015568) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1R16B (NM_015568) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPP1R16B
Synonyms:	ANKRD4; TIMAP
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC106948 sequence for NM\_015568 edited (data generated by NextGen Sequencing)

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ATGGCCAGTCACGTGGACCTGCTGACGGAGCTGCAGCTGCTGGAGAAGGTGCCACGCTG
GAGCGGCTGCGGGCTGCCAGAAGCGCCGGGCCAGCAGCTGAAGAAATGGGCACAGTAC
GAGCAGGACTTGCAGCACCGCAAGCGAAAGCATGAGCGGAAGCGCAGCACGGGCGGCCG
CGCAAGAAAGTGTCTTCGAGGCCAGCGTGGCCCTGCTGGAGGCCCTCGCTGAGGAACGAC
GCCGAGGAAGTACGCTACTTCTGAAGAATAAGGTCAGCCCTGATTTGTGCAATGAGGAC
GGACTCACAGCCCTACACCAGTGCATCGACAACCTTTGAGGAAATTGTGAAGCTGCTC
CTCTCCCATGGTCCCAATGTGAACGCCAAGGACAACGAGCTGTGGACACCTCTCCATGCT
GCAGCCACCTGCGGCCACATCAACCTGGTGAAGATCCTCGTTCAGTATGGGGCCGACTTG
CTTGCTGTCAACTCGGATGGGAACATGCCATATGACCTCTGCGAGGATGAACCCACCTG
GATGTCATCGAGACCTGCATGGCATAACCAGGGCATCACCAAGAGAAAATCAACGAGATG
CGGGTGGCTCCTGAGCAGCAGATGATTGCGGACATCCACTGCATGATCGCAGCGGGCCAG
GACCTGGACTGGATAGATGCCAGGGTGCCACACTGCTGCACATAGCTGGAGCCAATGGA
TACCTGCGGGCAGCTGAGCTCCTCTGGACCATGGAGTGGTGTGGATGTGAAGGACTGG
GATGGCTGGGAGCCCTGCATGCAGCTGCCTTCTGGGGACAGATGCAGATGGCAGAGCTA
TTGGTGTCCCATGGAGCTAGTCTCAGTGAAGGACATCCATGGATGAGATGCCAATAGAC
CTGTGTGAGGAGGAAGAGTTCAAGGTCCTGCTGCTGGAGCTAAAACACAAGCATGATGTG
ATCATGAAGTCACAGCTGAGGCACAAGTCATCCTTGAGCCGGAGGACCTCCAGCGCAGGC
AGCCGTGGGAAGGTGGTGCAGGAGCCAGCCTGTGCGACAGGACCAACCTGTATAGGAAG
GAGTATGAGGGAGAGGCCATCCTGTGCGAGCGGAGTGCAGCTGAGGATCAGCGGACCTCC
ACCTACAACGGGGACATCAGGGAGACCAGGACAGACCAAGAGAATAAGGACCCTAACCCC
AGGCTGGAGAAGCCCGTCTACTCTCCGAATTTCTACCAAGATCCCACGAGGTGAAGT
GACATGCCTGTTGAGAATGGCCCTCCGGGCTCCGGTCAAGTGCCTACCAAGTATGCGCTGGCC
AACGGGGATGTCTGGAAGGTGCATGAGGTGCCTGACTACAGCATGGCCTATGGCAACCCT
GGCGTGGCCGACGCCACCCCGCCCTGGAGCAGCTACAAGGAACAGAGCCCTCAGACGCTT
CTGGAGCTGAAGCGGCAGCGGGCTGCAGCCAAGCTGCTCAGCCACCCCTTCTTAGCACA
CACCTGGGCAGCAGCATGGCCAGGACGGGCGAGAGTAGCAGTGAAGGCAAGGCCCCCTTG
ATCGGAGGCAGAACTTACCCTACAGCAGCAATGGGACCTCGGTATATTACAGGTCACC
AGCGGAGATCCCCACTTTAAAGTTCAAGGCCCCATAGAGGAGATGGAGGAGAAGGTG
CATGGCTGTTGCCGTATCTCCTAG
    
```

Clone variation with respect to NM\_015568.2  
906 c=>t

**5' Read Nucleotide Sequence:**

```

>OriGene 5' read for NM_015568 unedited
TATACCCCGCCCGTTGCCGCTTTGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGC
AGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGCCGCG
AATTTCGGCAGCAGGGCGGGCCACACCATGAGGCCCCAGCCCCACCAGAGGCCCGCGCTG
CCCTGGCCCCCGGTGCACCGTGTAGCCCCAGCCAGGGCGTTGGGGAGGGCGGTGGCCA
TGGCCAGTCACGTGGACCTGCTGACGGAGCTGCAGCTGCTGGAGAAGGTGCCACGCTGG
AGCGGCTGCGGGCTGCCAGAAGCGCCGGGCCAGCAGCTGAAGAAATGGGCACAGTACG
AGCAGGACTTGCAGCACCGCAAGCGAAAGCATGAGCGGAAGCGCAGCACGGGCGGCCG
GCAAGAAAGTGTCTTCGAGGCCAGCGTGGCCCTGCTGGAGGCCCTCGCTGAGGAACGACG
CCGAGGAAGTACGCTACTTCTGAAGAATAAGGTCAGCCCTGATTTGTGCAATGAGGACG
GACTCACAGCCCTACACCAGTGCATCGACAACCTTTGAGGAAATTGTGAAGCTGCTCC
TCTCCCATGGTCCCAATGTGAACGCCAAGGACAACGAGCTGTGGACACCTCTCCATGCTG
CAGCCACCTGCGGCCACATCAACCTGGTGAAGATCCTCGTTCAGTATGGGGCCGACTTGC
TTGCTGTCAACTCGGATGGGAACATGCCATATGACCTCTGCGAGGATGAACCCACCTGG
ATGTCATCGAGACCTGCATGGCATAACCAGGGCATCACCAAGAAGAAAATCAACGAGAATG
CGGNTGGCTCCTGAGCAGCAGATGATTGCGGACATCCACTGCATGATCGCAGCGGGCCCA
GACCTGGACTGGATAGATGCCAGGGTGCCACACTGCTG
    
```

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_015568 unedited GGTACTTCTATGNNACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTGTT ATTTAAAGGAATTTAATAATTTTAAATTTAACTTTAACAGCGAATTCTGTCACAGGCC TTGGCAGCTGGAAGCAACTCCAGGGACATGTGCCCCCTTTGGGATGTGGCTGAGCCACAG TTTTGGACCCAAGGCCACCGGTGCCCGTGGCAAGGGGCTTCTTGAAGTTACCTCAGT ACGATATCGAAGATCTGCGAAGATTTTTTTAAAAAAGTTTTAAATATATTAGACTCTCT TGATTGCCATTTTTACACAAAGCTGCTGATACAGTATACAGAGTTTTAATTTTTTTTTCAC ATAAATACATTTTTTAAAGTGTCTCTGTACACAGTGGCTTCTGGTCTGGTGAATTAT TGGGAGGGCTGGGGTCTGCAGACTTTTCTGGGTGTGCAGAGCCAGGCCCGCACGGT GGGACTTGCAATGCCATGGGAAACACGCCCTCTGGCCAACAAAAGAGACTGTGGGG GAGGGGGTGTATTTTTGTCCCGGGGGATTTTTTAAAGTATTCTGACCCATGG GACCTTGGTCTATTGTCCCTTGGCCGGGGGGACCCTCCCCATTTTCCCAATTTG AGAGGTAATAACCTTTTTTTGGGGTTTTTAAAGGGGGCCCTTTAAAAAGAC CCCCCTTCCCCTTTTTTTTAAAAAAAACAAGGGTGTGGAAGAAAACCTCTGGCGGG GGAGGGGATTTTGCACACCACAACCCCAATAGTGTGTTTTTTTGTTTTATAAACCC CCACCCGGGGGGGGGGGAAGAGGAGACCCACTCCTTTTGGCTTTTTTAAACCCCT GGAAAAAGAGAAAAAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_015568
<b>Insert Size:</b>	6000 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_015568.2</a> , <a href="#">NP_056383.1</a>
<b>RefSeq Size:</b>	6251 bp
<b>RefSeq ORF:</b>	1704 bp
<b>Locus ID:</b>	26051
<b>UniProt ID:</b>	<a href="#">Q96T49</a>
<b>Cytogenetics:</b>	20q11.23
<b>Protein Families:</b>	Druggable Genome

**Gene Summary:**

The protein encoded by this gene is membrane-associated and contains five ankyrin repeats, a protein phosphatase-1-interacting domain, and a carboxy-terminal CAAX box domain. Synthesis of the encoded protein is inhibited by transforming growth factor beta-1. The protein may bind to the membrane through its CAAX box domain and may act as a signaling molecule through interaction with protein phosphatase-1. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).