

## Product datasheet for **SC128047**

### PPP2R3B (NM\_013239) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R3B (NM_013239) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPP2R3B
Synonyms:	NYREN8; PPP2R3L; PPP2R3LY; PR48; PR70
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 SC128047 sequence for NM\_013239 edited (data generated by NextGen Sequencing)

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ATGCCGCCCGGCAAAGTCTGCAGCCGGTCTGAAGATGAAGGTGGACGAGCTGTTCTCTG
TACTGGCTCAGCGAGGCCAGCACGACGGATGCTGCAGGACTGCCTGCGCCGGATCAAG
GCGCCCGGGCGGGACCAGCCGACCCCGGGGACGGGAGCAGCCCGGGCCTGGCCACA
GCCCCGCTCGCCGCCCCCGGCCAGCGGGCTCGAACCCCGGGAACCCCGGGCGGGC
CCTGCGCTGCCCTGGGCGCCCTCCAGCCCCAGGAACGCGCCACGTTTCGAGGCACC
CGTAGATCCGCAGGGACGAGAGTAGTTACAGACACGGAAAGAGCCCTGCCCCCGGCC
ACGAGCCAAAGCATTCCGACCTTCTACTTCCCTAGAGGACGCCCCGAGGACTCCGTCAAC
GTGGATGCCGTATCAGCAAGATCGAGAGCACCTTCGCCCGTTCCCCACGAGAGGGCC
ACCATGGACGACATGGGCTGGTGGCAAGGCTGCGGCTGCCCTCTACTGGAAGGGG
CCGCTCTTATGGCGCCGGGGAGCGCACGGGCTCCGTGTCCGTCCACAAGTTTCGTC
GCCATGTGGAGAAAAATCCTCCAGAACTGCCACGACGACGCGCCAAGTTCGTCATCTG
CTCATGAGCCCCGCTGCAACTACCTGGTGCAGGAGGACTTTGTCCCCTTCTGCAGGAC
GTGGTGAACACGCACCCGGGCTGTCGTTCTGAAGGAGCGTCCGAGTTCCTCGCGC
TACATCACACCGTTCATCCAGCGGATCTTCTACCGGTGAACCGTCTGGTCCGGCAGG
ATCACCTGCGCCGAGCTGCGGAGGAGCTCCTTCTGCAGAATGTGGCGCTGCTGGAGGAG
GAGGCGGACATCAACCAGCTGACCGAATTTCTTCTCGTACGAGCATTTCTACGTACTAC
TGCAAGTTCTGGGAGCTGGACACGGACCACGACCTGCTCATCGACGCGGACGACCTGGCG
CGGCACAATGACCACGCCCTTTTACCAAGATGATAGACAGGATCTTCTCAGGAGCAGTC
ACACGAGGCAGAAAAGTGCAGAAGGAAGGAAGATCAGCTATGCCGACTTTGTCTGGTTT
TTGATCTCTGAGGAAGACAAAAAACACCGACCAGCATCGAGTACTGGTTCGGCTGCATG
GACCTGGACGGGGACGGCGCCCTGTCATGTTTCGAGCTCGAGTACTTCTACGAGGACAG
TGCCGAAGGCTGGACAGCATGGCCATCGAGGCCCTGCCCTTCCAGGACTGCCTCTGCCAG
ATGCTGGACCTGGTCAAGCCGAGGACTGAAGGAAGATCACGCTGCAGGACCTGAAGCGC
TGCAAGCTGGCAACGTCTTCTTCGACACCTTCTTCAACATCGAGAAGTACCTCGACCAC
GAGCAGAAAGAGCAGATCTCCCTGCTCAGGGACGGTGCAGCGCGGCCCGGAGCTCTCG
GACTGGGAGAAGTACGCGGCCGAGGAGTACGACATCCTGGTGGCCGAGGAGACCTGGGA
GAGCCCTGGGAGGACGGGTTTCGAGGCCGAGCTCAGCCCCGTGGAGCAGAAGCTGAGTGGC
CTGCGCTCCCCGCTGGCCAGAGGCCCTTCTTCGAGGCCCTCACCGCTGGGCGCCGTG
GACCTGTACGAGTACGCGTGCAGGGACGAGGACCTGGAGCCGCTGTGA
    
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Clone variation with respect to NM\_013239.4  
 393 c=>t;489 t=>c;1392 t=>c;1554 t=>c;1556 c=>t;1599 t=>c;1698 a=>g

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_013239 unedited

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TCCCGCCCGTTGGCGCAATGGGCGGTAGGCGTGTACGGTGGGAGTCTATATAAGCAGA
GCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGGAAT
TCGGCACGAGGAGCGCGGGCCGACCGCCCTCCTCGGTCCCGCGCCCCGCGAGTC
CGCGCAGTTCGAGGCGCGGGCCCTGTTCCCTGCGCGCGCCCTCAGCGGGCCGTGC
TCGCATCACCGAGGTCGGTCCGGGGCGGACCGAAGCCCCGGGGCGGGCGGGCGCGNC
GTCCGNGGCGCCGCGGGCCAGCCCCGCCATGCCGCCGCGCAGGGCTGCAGCCGN
CCTGAAGATGAAGNGGACGAGCNGNCTGGACTGGCTCAGCGAGGCCAGCACGACGG
GATGCTGGCGGACTGCGTGCCTGGATCATGGCACCCGGGCGGAACCGCCACCCGTCG
GAACTTTGGACAACATTCGGCAACTGAATATTTTCAAATCCCCCTGGACCTGTAAA
TATTGTTCCCTTTTGCCACANCCCTCACAAATTTGAAAATTTTTGGAATANTTTGGAAT
TTTTTATAATTTTGCACAATCTGGAACACCCCCCACCCTTTTCCCTTATTTCCCT
TTTTCCCACTCTTTCCATCTTTCCCCCATTTTCCCCATTTNACTAAATTTCCAAAT
TCNAACAAAATTTTAAACTTCCCTAACCTTCCACATACCCCANATTTTATATTT
ATTAATATANCCCCAAATTNANAACCATCTCCCCCTTTCCCCCTATTTCCCCCTT
TCACTTTCCCCCTCCCTTTCCATTCCTATCCTTTCCCCCNCTCTCTATTTTATT
CTTCACTTATCCCCCTACTCCCAATTTTCCCCACACCCCN
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_013239 unedited TTCCGTGGGACCTTGGGTGATGGCACTTCCCATGNCCAGNGAGAGCACTGGGGNAGTGGG TCACAGGGCATGCCACCCGGGATCTGTTCCAGNAAACAGCTATGACCCGCGCCGCAATCT AGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAATAAATAAAAGTTTATCAT TCCGTACAAACGCACTCATTTTCCACAACAGTTTTTACACGAGCCGCGGTGGCCCGGTGG TGGCACGTGGGGGGCGGCCCGCGGGCGTTCGCGGGTGGCGTCACAGCGGTCCAG GTCTCGTCCCCGCACGCGTACTCGTACAGTCCACGGCGCCAGCGGTGAGGGCGCTC GAAAAAGGGCCTCTGGGCCAGCGGGGAGCGCAGCGCACTCAGCTTCTGCTCCACGGGGCT GAGCTCGGCCTCGAACCCGTCCTCCCAGGGCTCTCCACGGTCTCCTCGGCCACCAAGGAT GTCGTA CTCTCGGCCGCTACTTCTCCAGTCCGAGAGCTCGGGGCCGCGCTGTCAAC GTCCCTGAGCAGGGAGATCTGCTCTTTCTGCTCGTGGTCGAGGTA CTCTCGATGTTGAA GAAGGTGTCCAAAAGACGTTGGCCAGCTTGCAGCGCTTCAGGTCCTGCAGCGTGATCTT CCCTTCAGTCTCGGCTTGACCAGGTCCAGCATCTGGCAGAGGCAGTCTGGAAGGGCAG GGCCTCGATGGCCATGCTGTCCAGCCTTCGGCACTGCTCCTCGTAGAAGTACTCGAGCTC GAACATGGACAGGGCGCCGTCCTCCGTCAGGTCCATGCAGCGGAACCACTACTCGATGCT GGTTCGGTGT TTTTTTGTCTTCTCAGAGATCAAAAACCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_013239
<b>Insert Size:</b>	2000 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>	<u>NM_013239.3, NP_037371.2</u>
<b>RefSeq Size:</b>	2071 bp
<b>RefSeq ORF:</b>	1728 bp
<b>Locus ID:</b>	28227
<b>UniProt ID:</b>	<u>Q9Y5P8</u>
<b>Cytogenetics:</b>	X;Y
<b>Protein Families:</b>	Druggable Genome, Phosphatase

**Gene Summary:**

Protein phosphatase 2 (formerly named type 2A) is one of the four major Ser/Thr phosphatases and is implicated in the negative control of cell growth and division. Protein phosphatase 2 holoenzymes are heterotrimeric proteins composed of a structural subunit A, a catalytic subunit C, and a regulatory subunit B. The regulatory subunit is encoded by a diverse set of genes that have been grouped into the B/PR55, B'/PR61, and B''/PR72 families. These different regulatory subunits confer distinct enzymatic specificities and intracellular localizations to the holoenzyme. The product of this gene belongs to the B'' family. The B'' family has been further divided into subfamilies. The product of this gene belongs to the beta subfamily of regulatory subunit B''. [provided by RefSeq, Apr 2010]

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