

## Product datasheet for **SC103080**

### PPP1R15B (NM\_032833) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1R15B (NM_032833) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPP1R15B
Synonyms:	CREP; MSSGM2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC103080 sequence for NM\_032833 edited (data generated by NextGen Sequencing)

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ATGGAGCCGGGGACAGGCGGATCGCGGAAACGGCTTGGCCCTCGGGCGGGCTTCCGGTTC
TGGCCACCCTTTTTCCCTCGGCGATCGCAAGCAGGCTCTTCTAAGTTCCCGACGCCTCTT
GGCCCCGAAAACCTCCGGGAACCCACACTGCTTTCCTCTGCCAGCCGAGACTCGGGTC
AGTTACTGGACGAAACTGCTCTCCAGCTCCTTGCGCCGCTCCCCGGATTGCTTCAGAAG
GTGCTAATTTGGAGCCAACCTTTTCGGTGAATGTTTCCGACCAGATGGCTAGATTTTGCT
GGAGTCTACAGCGCCCTGAGAGCCCTGAAGGGACGGGAGAAACCAGCCGCCCCACAGCG
CAGAAATCTTTGAGTTTCGCTGCAGCTCGACTCCTCAGACCCTCGGTACCAGTCCCCTT
GATTGGCTAGAGGAGGGATCCACTGGCAATACTCGCCCCAGACCTAAAATTGGAGCTT
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TGGGGAGTGGAGCTGTTGCCAGTAGCCTTCAATCCCGTCTGTACTCTAACCGGAACTT
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GATGACTGGGAATCTAGTGCAGATGAAGCAGAGAGTCTCAAACGTGGAATCATTCTGT
AATTCTGATGACCCTACAACCCTTAAATTTTAAAGGCTCCTTTTCAAACATCAGGGGAA
AATGAGAAAGGCTGTCTGACTCAAGACCCCATCTGAGTCCATTGTGGCCATTTCTGAG
TGTCACACCTTACTTTCTGTAAGGTGCAGCTGTTGGGGAGCCAAGAAAGTGAATGTCCA
GACTCGGTACAGCGTGACGTTCTTTCTGGAGGAAGACACACATGTCAAAGAAAAAAG
GTAACCTTCTTGAAGAAGTTACTGAGTATTATAAAGTGGTGTGAGGATCGCAAAGGA
CCATGGGAAGAATTTGCAAGGGATGGATGCAGGTTCCAGAAACGAATTCAGAAACAGAA
GATGCTATTGGATATTGCTTGACATTTGAACACAGAGAAAGAATGTTTAAAGACTCCAG
GGAACATGCTTCAAAGGACTTAATGTTCTCAAGCAATGTTGA
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Clone variation with respect to NM\_032833.3  
923 a=>g

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_032833 unedited</p> <pre>GGGCCCCGGGGCNCNCCCNCTTTTCCCCCCCCCGTTCAAATTTGTNATACGACT CACTATAGGCGGGCCGNAATTCGCACGAGNACCGCACCAGCCGGCTACCCAGTCCTTC CGGTATCGCGTTGCTCAGGGGCTTTTCAACCCTTCTGTCAAGTCCGAAAACCATCGCCGAG GCCGTGGGGGACTCCTATCCATGGTGTGAAGCGTCGAGCCGACTAGGGAACTCCTTC CCCGCCAGGATGGAAGTCGCATCAGTCGCCGCTATTGCGCGGGCTGTTCTTCCCTGTGT TCTGCCGCCGCTGCCGATTCCGCTGCCCTCTGTGGCTTTTCTGCTGGCTCGAAGATCGG CCTGGAGCAGCGACGCCACCCTGGGCAAGGCCGAGACTCTGTAGGCTTCTCCGAATCC CGTCGACCTCCAGCCGCTGAGCGCCGCGCCCTACCTGAGAGACTGTCAAGAAAAAGGAG ATGGAGCCGGGACAGCGGATCGCGGAAACGGCTTGGCCCTCGGGCGGGCTTCCGGTTC TGGCCACCCTTTTCCCTCGCGATCGCAAGCAGGCTCTTCTAAGTTCCCGACGCTCTT GGCCCGAAAACTCCGGGAACCCACACTGCTTCTCTGCCAGCCGAGACTCGGGTC AGTTACTGGACGAACTGCTCTCCAGCTCCTTGCGCCGCTCCCGGATTGCTTCAGAAA GTGCTAATTTGGAGCAACTTTTCGGTGAATGTTTCCGACCAGATGGCTAGATTTTGT GGAGTCTACAGCGCCCTGAGAGCTGAAGGGACCGGAGCAAACACCCGCCCCACAGNG CAGAAATCTTTGGATTTCGCTGCAGCTCGACTCCCCAAAACCTCGGGACCAACCCCTT GAATGGCTAGAGGAGGGATCCCACTGGCATCACCCCCCCAAACCCTAAATGGAGCT AAGCCAGGGA</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_032833 unedited</p> <pre>NAAAATTTTTTCTATGGACCGGGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTT TGATATTGACTGAAGTTTATTTTTACATTTCAAACGTGAAAATTCAGAAGTCCCATTT CCAATTTTACAGTGGGATCCTGACAGTTTTAAAAGTGACAGTGTGAGGCATGATATTC ATTAACACTGGTTTTCTGTTGAGAACATATACACCAAAACCAAATGCTCTGAGATGTCT CCTATTTTCTTTCTAGGAAATTTCTAGGCTTTTAAAGTTTAAAAATAAATGATTATGATG TAATTATTACTTTCCAGAGTGTGTTGCAATAACTTCAACCTGTTAAGAGATACAAAGAAC TATATTAAGTGGGAACTACAATAACGTACACAGAACCCTCTTCAAAGAAATTAATATA TTAGATGTTAAAATGTGGTAGAAAAGATGCAGCTTTCCCAAAGTAGTAAAGTACTGCACAT ATGGGTTTTGTGGCAGTCTTGGAAATATCCTAGGTAGAACTTAATGTAGAAATAAAAAG GCTACCACATATTTCAATCCAAGTCATTTTTACAAGAAAAAAAAGTGACACAAAATA ATGCACTTTAAAGTTGGTAGCATACACAAGGTTATTTTTAGCCTAACATAGACAGGCCAA ATCATTGAAATAAAAAAATATAGAAAAACATAAAAGCCATTAACCTTCTGAATTTTGGG AAAGAAACAAGAAAGAGCCCAAAGTTTTTTCAGATAGGCACACATAATTTAGATTAGAAATG AAAATGGGCTTTAAGCCCTATAAATATTGTTTTTCCAAGAAAATAAGTTCTGAAAGTGCA AAATGACAACCAAAAAGGTCCTTTCCACCTCATGTCAGCACAAACCTTTAAAAGC ACCATCCACTAATCCAAAAAG</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_032833
<b>Insert Size:</b>	4000 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_032833.2](#), [NP\\_116222.2](#)

**RefSeq Size:** 5264 bp

**RefSeq ORF:** 2142 bp

**Locus ID:** 84919

**Cytogenetics:** 1q32.1

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a protein phosphatase I-interacting protein that promotes the dephosphorylation of eukaryotic translation initiation factor 2A to regulate translation under conditions of cellular stress. The transcribed messenger RNA contains two upstream open reading frames (ORFs) that repress translation of the main protein coding ORF under normal conditions, while the protein coding ORF is expressed at high levels in response to stress. Continual translation of the mRNA under conditions of eukaryotic translation initiation factor 2A inactivation is thought to create a feedback loop for reactivation of the gene during recovery from stress. In addition, it has been shown that this protein plays a role in membrane traffic that is independent of translation and that it is required for exocytosis from erythroleukemia cells. Allelic variants of this gene are associated with microcephaly, short stature, and impaired glucose metabolism. [provided by RefSeq, Feb 2016]