

## Product datasheet for MC202437

### PPP1R3B (NM\_177741) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1R3B (NM_177741) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	PPP1R3B
Synonyms:	6430576E21; AW821953; GL; PTG
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC079666 sequence for NM\_177741  
GGAAAGTTAAAGTGAGCCACAGATTGCTGGAGCTGGAATCCAGAGTGCTGCAATCCAGTGAGCAGACTGC  
TAGCCGGCTCGCCTAGCGTGATGGCTGTGGACATCCAATACAGCTACAGCAGTATGGCCCTTCTTTACG  
CAGAGAGCGCTTACCTTCAAGATCTCCCCAACTGAGCAAGCCCTGAGGCCTTGATCCAGCTGGGC  
AGCAAGGATGAAGCCAGTGAATGGTGGCCCCGAGTGCAAGGAGAAGAAGGTGAAGAAGCGGGTGTCT  
TCGCCGACAACCAGGGGCTGGCCCTGACAATGGTAAAAGTGTCTCGGAATTCGATGACCCACTAGATAT  
TCCCTTTAACATCACCGAGCTCTAGACAACATCGTGAGTCTGACGACAGCAGAGAGCGAGAGCTTTGTT  
TTGGATTTTCCGAGCCTTCCGAGATTACTTAGACTTCAGAAATCGCCTTCAGACCAACCACGTCTGCC  
TAGAAAAGTGTGTGCTGAAGGATAAGGCCATCGCGGGCACCGTGAAGGTCCAGAACCTGGCCTTCGAGAA  
GGTTGTGAAGATCAGGATGACATTTGACACCTGGAAAAGCTTACAGATTTCCCTTGTGAGTATGTGAAG  
GACACTTACGCTGGTTCAGACAGGGACACATTCTCCTTTGACATCAGCTTACCCGAGAAAATTCAGTCTT  
ACGAAAGAATGGAGTTTGCCTGTGCTACGAGTGTAAACGCCAGGCGTACTGGGACAGCAACAAAGGCAA  
AAACTACAGGATCACCCGGGCTGAACTCCGATCCTCTCCGGGAAAAGATTGAGCCGTACAATGGACCAGAT  
TTTGGAATCTCTTTGACCAGTTTGGGAGCCCTCGGTGTTCTTTGGCCTGTTTCCAGAGTGGCCTAGTT  
ATCTGGGATATGAAAAGCTGGGGCCCTACTACTAGTGACTGCAGGTGACAGTCCGTGGCTCAGATCAAGA  
TGGAGGCGAGAGAACGGAAGGCCAGAGGAAAGTTGAACTGCCACTAGGCGTGGTTTTTGAAGACAGGC  
TCCTGTTACCTTTTTCTTAAACCAGCAAGTCCAGCGTGTTCATCACACCCGGTTTTCTGCTCAGAGG  
AGTGGAGCGGTGCTGATCCTCTGTGGCATCCGGTTGGCCACAAGGGAATGCCAGGATGGTGCCAGAAG  
GGTCTGGAGAGGCAAGCTGGCAAGGACAGAGGAAGCTGGCCTCTCTCCACTTGGACTCTGAAAG  
TACCCAGAAACCAATCTCCAGCCTTACCATTGACCTCGAGGTCCTGTCCCGCTCATGGCTTTCCATGC  
GTCTCCTTCAATCCACGAGTACTCCGAAGGAGCCACCTCAGTTCTGGGACACACTGGCCTGATTGATAC  
CCAGCAGCCTCAGAAGAGGGCCGGGGCGGCTTTCTGTGCGAGCTTTTCACTACACTTCTCCCGC  
TACAGTCTATCCAGTGATCTGGACAAGAGAGACAAAGCAAATAAGTAGCTCGTGTCTGGGATAGGCATTC  
CCTCCCCCTCTCCTCCTGACCCCTCTTTATATTCCAGAAGAGAGCAACATATTAGTTACTAGAAAAG  
TCATTGGTTCCCATGTGGGGTACAGGGTACAGCACTGGGACAAGGTGGGACAGTCTGAACCTTTAGCTT  
TTCTCTTGATGTTGGGGGAGCTTTTGAAGCACCGTTTACCCGGAGTTACCAGAAGAGGACTCAATGA  
CAAGATGCATTTCCACTGCCTGGCCGGTGTGTGAACTGTTTGTGTTGAAGAGAGTCATAGCTCTCA



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TGTCCTCGGAGCCTCCACTTCAGTGCCTGTCTGAGGCTTTCAAATAGCAAGACTGGCATCTCCTCGAG  
 TCCTCCAGACTGTGCTTAGATATATATTCATATTCAGGATGCTTTATGAACCCCCAAGGACATTGATCGG  
 GTGTTTTTATTTATGGTGTGTATTATAAAAAGATAGGGGAGAAAAACCTCACGTTTTTCTATGTTATTTT  
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 CTGTGAGGAAATCATCTTTGTGCCATGAGGCTGAAGCTGGGGCCAGGAGTTTGTGTTTTATCTAAGCAGG  
 CCATGTATCTCCTAGATGGGTGACTTTAAATGTTCCGGATTTGTTGACCAGAGCAGCTAGGTTGAAATT  
 GGATAGAAAGCAAACCTGCTCTCTATGGGTCATGCATTGTGTGTTAAGAAGGAAGGCAGCCAAGGGCACT  
 GTTTCCTACATAGATGCAGACTAAAGATCATAAAATGGCTGGGGCGGGGCGAGGTACGGAATGGAATC  
 TGTTCAAGTGGTATGGATGATCTTCAGACATTCCGAGTCAAATATAAAATATGGTAATCCATGTTATAT  
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 AGTCTGTCCCATGACTCTGAGATAGCCTCGGGAGCTGCATTTAGAAACTCTATGCATTGTTGAGATTCA  
 CCACTGTAGACAAATTTACGCAGCTCAGAAGACGACAGGCCCTTGCTTGAAGATCCCACGGCAAGTTTG  
 ACCTGGAGGTCTGTCTTCATGCAGTCTTGGCTAGGATGATGGATGGATCCTAATCCCCAGACATTTGTA  
 TCCAGGAAGGGAAGGCAACCCCATCTTTGTTCCATATTTATTTCCCAAATCCCTGGGGTGTCTTTGGC  
 AAAATGGGTACAATAAATAAGCTAGACCATAAGACATGTTTCTTGTAAAGCCGTTTGTGTTGTAAG  
 AATATTTTCTCTAGAAAGCTAGGAAGGCATAATGGAAGTCTGTAGTTCTGCAGAACTAAAGCAACTTGA  
 GTCAATGGTGGGAGTTATTTTATCCCTGAGATGTAAGCTTGGTGGCTCCTGATTCTGGGAAATCTGCACT  
 CAGCCGCATCTCCTGGCATGATCACAGAACTGCAGATAAGATGTTCCCGAAATCTGGGATCTTACCTC  
 TAACGGGATCGTCCAGATCACTCAAAGACATTTCTTGTGAGGTTCTGTGAGATGCCTCCAGCTCCA  
 TCAGCAAAGCTGTGAGTGTTCACGGTTTTGCTGCAGTCCCAGAGGCCCTGGGGCACGTGGACTTCT  
 AGAGTGACACCGTGTGATGTTACTTTTTGCTTTAATGTGAACATTCAACTGACGGGCTTGTGCTGATT  
 GTATGCCTACATGTGCCTTGTTCAGAACTTCTGCATGTTTGTAAAGACATATTTTGTATACATTGGTAG  
 AGGGGAAATGCACCTTAAAAAAAATCACAGAATGGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT  
 GT  
 AAATATAGAAAGAAAAGAAAAA

**Restriction Sites:**

Ascl-NotI

**ACCN:**

NM\_177741

**Insert Size:**

855 bp

**OTI Disclaimer:**

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).

**Components:**

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:** [BC079666](#), [AAH79666](#)

**RefSeq Size:** 4229 bp

**RefSeq ORF:** 855 bp

**Locus ID:** 244416

**UniProt ID:** [Q8C767](#)

**Cytogenetics:** 8 A4

**Gene Summary:** Acts as a glycogen-targeting subunit for phosphatase PP1. Facilitates interaction of the PP1 with enzymes of the glycogen metabolism and regulates its activity. Suppresses the rate at which PP1 dephosphorylates (inactivates) glycogen phosphorylase and enhances the rate at which it activates glycogen synthase and therefore limits glycogen breakdown. Its activity is inhibited by PYGL, resulting in inhibition of the glycogen synthase and glycogen phosphorylase phosphatase activities of PP1. Dramatically increases basal and insulin-stimulated glycogen synthesis upon overexpression in hepatocytes (By similarity).  
[UniProtKB/Swiss-Prot Function]