

Product datasheet for MC209935

PPP1R3C (NM_016854) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ppp1r3c (NM_016854) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ppp1r3c
Synonyms: Ppp1r5; PTG
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209935 representing NM_016854
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCTGCACCAGAATGATCCATGTGCTAGATCCACGTCCTTTGACAAGTTCGGTCATGCCCGTGGACA
 TGGCCATGAGGATTTGCTTGGCTCATTACCACCTCTGAAGAGTTTCTGGGTCCTTACAATGGTTTTCA
 ACGAAGAAATTTGTGAATAAATTGAAACCTTTGAAACCATGTCTCAGTGTCAAGCAGGAAGCCAAATCG
 CAGAGTGAGTGAAGAGCCACACAACCAAGCCAAGAAGCGGGTCGTGTTGCGGACTCCAAGGGGCTGT
 CACTCACTGCTATCCATGTCTTCTCCGACCTTCCAGAAGAACCAGCGTGGGACCTGCAGTTTGATCTCTT
 GGACCTTAACGATATCTCCTCCAGCTTAAACTTCACGAGGAGAAAAATTTGGTTTTGATTTCCCCAG
 CCCTCAACCGACTACTTAAGTTTCCGGGACCGCTTTCAGAAGAACTTTGTCTGCCTCGAGAAGTCTCTT
 TGCAAGATCGGACGGTGACCGGGACAGTGAAAGTGAAGAATGTGAGCTTTGAGAAGAAGTTTCAGGTCCG
 GATCACCTTTGACACCTGGAAAACCTACACAGATGTGGACTGTGTCTACATGAAGAATGTTTACAGCAGC
 TCAGACAGCGACACCTTCTCCTTTGCCATCGACTTGCCTCGTCACTTCCAAGTGGAGAGAAAATGAGT
 TCTGCATTTCTTATCAGCTAATGGGAGGATCTTCTGGGACAACAATGAGGGTCAAGAATTACAGAATTGT
 CCATGTGCAATGGAAAACCTGACGGAGTGCAGACTCAGGTGGCACCCAAAGACTGTGCATTCCAACAGGGG
 CCCCTAAGACTGAGATAGAGCCACAGTCTTTGGCAGTCCAAGGCTTGCTAGCGGCCTTCTCCAGAGT
 GGCAGAGCTGGGGGAGAGTGAGAACTTGACCTCCTATCGA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_016854
Insert Size: 954 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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: [NM_016854.2](#), [NP_058550.1](#)

RefSeq Size: 2696 bp

RefSeq ORF: 954 bp

Locus ID: 53412

UniProt ID: [Q7TMB3](#)

Cytogenetics: 19 C2

Gene Summary: Acts as a glycogen-targeting subunit for PP1 and regulates its activity. Activates glycogen synthase, reduces glycogen phosphorylase activity and limits glycogen breakdown. Dramatically increases basal and insulin-stimulated glycogen synthesis upon overexpression in a variety of cell types.[UniProtKB/Swiss-Prot Function]