

Product datasheet for **MG203867**

Ppp1r3b (NM_177741) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppp1r3b (NM_177741) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ppp1r3b
Synonyms:	6430576E21; AW821953; GL; PTG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203867 representing NM_177741 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGTGGACATCCAATACAGCTACAGCAGTATGGCCCCTTCTTTACGCAGAGAGCGCTTCACCTTCA
 AGATCTCCCCAAACTGAGCAAGCCCCTGAGGCCTTGATCCAGCTGGGCAGCAAGGATGAAGCCAGTGG
 AATGGTGGCCCCGCAGTGCAGGAGAAGAAGGTGAAGAAGCGGGTGCTTCGCCGACAACCCAGGGGCTG
 GCCCTGACAATGGTGAAGTGTTCTCGGAATTCGATGACCCACTAGATATTCCTTTAACATCACCGAGC
 TCCTAGACAACATCGTGAGTCTGACGACAGCAGAGAGCGAGAGCTTTGTTTTGGATTTTCCGCAGCCTTC
 CGCAGATTACTTAGACTTCAGAAATCGCCTTCAGACCAACCACGTCTGCCTAGAAAAGTGTGTGCTGAAG
 GATAAGGCCATCGCGGGCACCCTGAAGGTCCAGAACCTGGCCTTCGAGAAGGTTGTGAAGATCAGGATGA
 CATTTGACACCTGGAAAAGCTTCACAGATTTCCCTTGTCAGTATGTGAAGGACACTTACGCTGGTTTCA
 CAGGGACACATTCTCTTTGACATCAGCTTACCCGAGAAAATTCAGTCTTACGAAAGAATGGAGTTTGCC
 GTGTGCTACGAGTGTAACGGCCAGGCGTACTGGGACAGCAACAAGGCAAAAAGTACAGGATCACCCGGG
 CTGAATCCGATCCTCTCCGGGAAAGATTGAGCCGTACAATGGACCAGATTTTGAATCTCTTTTGACCA
 GTTTGGGAGCCCTCGGTGTTCTTTGGCCTGTTTCCAGAGTGGCTAGTTATCTGGGATATGAAAAGCTG
 GGGCCCTACTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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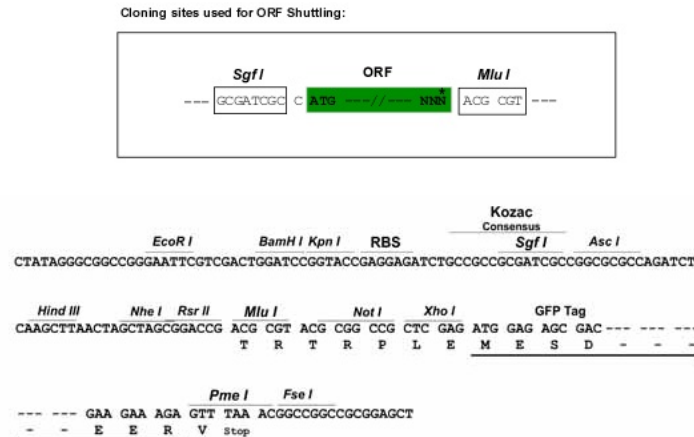
Protein Sequence: >MG203867 representing NM_177741
 Red=Cloning site Green=Tags(s)

MAVDIQSYSSMAPSLRRERFTFKISPKLSKPLRPCIQLGSKDEASGMVAPVQEKVKKRVSFADNQGL
 ALTMVKVFSEFDDPLDIPFNITELLDNIVSLTTAESEFVLDFPQPSADYLDNRNLQTNHVCLENCVLK
 DKAIAAGTVKVNLAFAEKVVKIRMTFDTWKSFTDFPCQYVKDTYAGSDRDTFSFDISLPEKIQSYERMEFA
 VCYECNGQAYWDSNKGKNYRITRAELRSSPGKIEPYNGPDFGISFDQFGSPRCFGLFPEWPSYLGYEKL
 GPYY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177741

ORF Size: 852 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_177741.4](#)

RefSeq Size: 4229 bp

RefSeq ORF: 855 bp

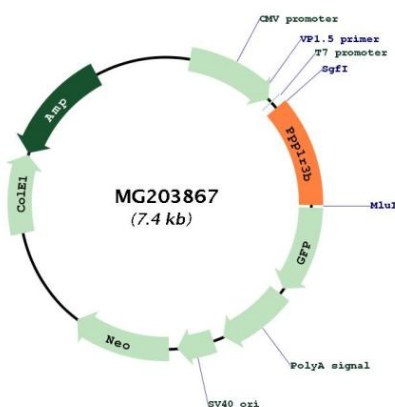
Locus ID: 244416

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]

Product images:



Circular map for MG203867