

Product datasheet for **RG207987**

PPP1R3D (NM_006242) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PPP1R3D (NM_006242) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PPP1R3D
Synonyms: PPP1R6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG207987 representing NM_006242
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCAGAGGCCCGAGCTCCGCGTCTGCCTAGCGCCCTGGGATCCCGAAGCTCGGCCCGGAGCC
 TCAGCTGCCTGTCGGACCTGGACGGCGCGTGGCCCTGGAGCCGCGGCCCTGTAGCCCCCTGGGAGCCC
 GGGCCGCGCGCCGCCAACGCCAGCGCCGTCGGGCTGCGACCCCGCCTGCGGCCATCATCCTGCGG
 CGGGCGCGCTCACTGCCAGCTCCCCGAGCGCCGAGAAAGCCGCGGGCGCGCCGGCGCTGCGTGT
 GGCCGGGCTGCAGCCAGAAGCTCCGCGTGCCTTCGCCGACGCCCTGGGCTTGGAGCTGGCACAGGTCAA
 GGTGTTCAACGCGGGAGACGACCCGTCCTGCGCTGCACGTGCTGTCGGGCTCGCAATCAACTCGGAC
 CTGTGCTGCAGCAGCCAGGACCTGGAGTTCACCCTGCATTGCCTGGTGCCTGATTCCCGCCCGCGTGC
 AGGCCCGCGACTTTGGCGAGCGCTGCAGCGGCAGCTCGTGTGCCTGGAGCGTGTCACTTGTGCGGACCT
 TGGCATCAGCGGTACGGTGCAGTGTGCAACGTGGCCTTCGAGAAGCAGGTGGCTGTGCGTACACTTTC
 TCGGGCTGGCGCAGTACCCACGAGGCGGTGGCGCGGTGGCGCGGGCCCGAGGCCCGAGGGCACGGAGG
 ACGTTTTACCTTCGGCTTTCCAGTACCGCCCTTCTGCTGGAGCTCGGCTCCCGCTGCACTTCGCGGT
 GCGCTACCAAGTGGCGGGTGCAGTACTGGGACAACAACGACCACCGAGACTACAGCTCACATGTCCG
 AACCACGCGCTGCACATGCCTCGCGGGAGTGCGAAGAGAGCTGGATCCACTTCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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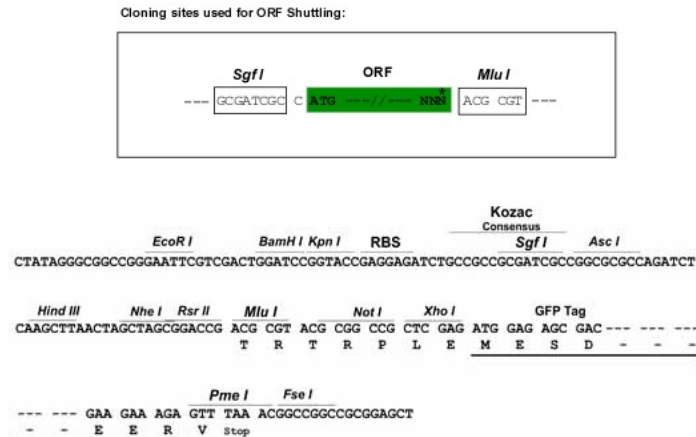
Protein Sequence: >RG207987 representing NM_006242
Red=Cloning site Green=Tags(s)

MSRGPSSAVLPSALGSRKLGPRSLSCLSDLGGVALEPRACRPPGSPGRAPPTPAPSGCDPRLRPIILR
RARSLPSSPERRQKAAGAPGAACRPGCSQKLRVRFADALGLELAQVKVFNAGDDPSVPLHVL SRLAINSD
LCCSSQDLEFTLHCLVPDFPPPVEAADFGERLQRQLVCLLERTVCSDLGISGTVRVCNVAFEKQVAVRYTF
SGWRSTHEAVARWRGPAGPEGTEDEVFTFGFPVPPFLLLELGSRVHFAVRYQVAGAEYWDNNDHRDYSLTCLR
NHALHMPRGECEESWIHF I

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006242

ORF Size: 897 bp

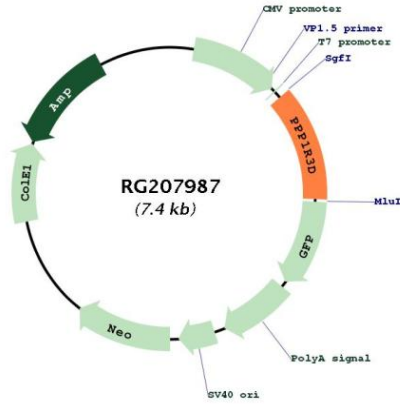
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_006242.4
RefSeq Size:	3481 bp
RefSeq ORF:	900 bp
Locus ID:	5509
UniProt ID:	O95685
Cytogenetics:	20q13.33
Domains:	CBM_21
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Insulin signaling pathway
Gene Summary:	<p>Phosphorylation of serine and threonine residues in proteins is a crucial step in the regulation of many cellular functions ranging from hormonal regulation to cell division and even short-term memory. The level of phosphorylation is controlled by the opposing actions of protein kinases and protein phosphatases. Protein phosphatase 1 (PP1) is 1 of 4 major serine/threonine-specific protein phosphatases which have been identified in eukaryotic cells. PP1 associates with various regulatory subunits that dictate its subcellular localization and modulate its substrate specificity. Several subunits that target PP1 to glycogen have been identified. This gene encodes a glycogen-targeting subunit of PP1. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG207987