

Product datasheet for **RR215588**

PPP1R3C (NM_001012072) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ppp1r3c (NM_001012072) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ppp1r3c
Synonyms: PTG; R5
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215588 representing NM_001012072
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGCTGCACCAGGATGATCCACGTGCTGGATCCACGACCTTTGACAAGTTCAGTCATGCCCGTGGACA
TGGCCATGAGGATTTGCTTGGCACATTCACCACCCTGAAGATTTCTGGGTCTTACAATGGTCTTCA
GCGAAGACATTTTGTGAATAAACCGAAGCCCTTGAACCGTGTCTCAGCGTCAAGCAGGAAGCCAAATCA
CAGAAGGAATGGAAGAGCCACACAGCCAAGCCAAGAAGCGGGTCGTGTTTGTGACTCCAAGGGCTCT
CCCTCACTGCCATCCACGTCTTCTCAGACCTTCCAGAAGAACCCGCGTGGGACCTGCAGTTTGACCTCTT
GGACCTTAACGACATCTCCTCCAGCTTAAACTTCACGAGGAGAAAAATCTGGTTTTCGATTTCCCCCAG
CCTTCAAGCGACTACTTAAGTTTCCGGGACCGCTTCCAGAAGAACTTTGTCTGCCTCGAGAAGTCTCTT
TGCAAGATCGGACAGTGACTGGGACGGTCAAAGTAAAGAACGTGAGCTTCGAGAAGAAGTTTCAGGTCCG
CATCACCTTTGACACCTGGAAAACCTACACCGACGTGGACTGTGTATACTGAAGAACGTTTACGGCAGC
TCAGACAGTGACACCTTCTCCTTTGCCATCGACTTGCCTCCGCTCATTCCAAGTGGAGAGAAAATCGAGT
TCTGCATTTCTACCATGCTAACGGGAGGGTCTTCTGGGACAACAACGAGGCTCAGAAGTATAGAATTGT
CCATGTACAGTGGAAACCCGACGGAGTGCAGACTCAGGTGGCACCCAAAGACTGTGCATTCCAACAGGTG
CCCTTAAGACTGAGTTAGAACCACGGTCTTTGGCAGTCCGAGGCTTGCTAGCGCCTCTTCCAGAGT
GGCAGAGCTGGGGGAGAGTGAGAACTTGGCCTCTATCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR215588 representing NM_001012072
Red=Cloning site Green=Tags(s)

MSCTRMIVHLDPRLTSSVMPVDMAMRICLAHSPPLKSFLGPYNGLQRRHFVNPKPKLPCLSVKQEAKS
 QKEWKSPPHSQAKKRVPFADSKGLSLTAIHVFSDLPEEPAWDLQFDLLDLNDISSSLKHEEKNLVDFDPQ
 PSSDYLSFRDRFQKNFVCLENCILQDRVTGTGTVKVNVSFEKKVQVRITFDTWKTYTDVDCVYLKNVYGS
 SDSDTFSFAIDLPRVIPTEEKIEFCISYHANGRVFWDNNEAQNYRIVHVQWPKPDGVQTVQVAPKDCAFQQV
 PLKTELEPTVFGSPRLASGLFPEWQSWGRVENLASYSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

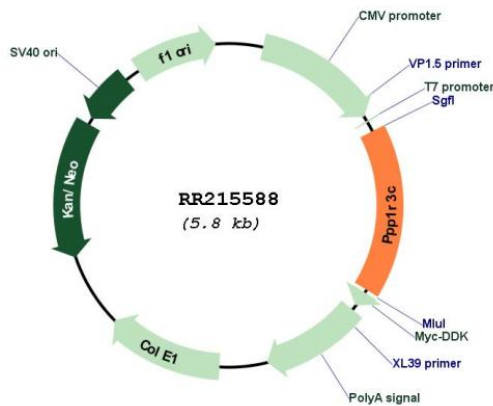
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001012072

ORF Size: 951 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_001012072.1 , NP_001012072.1
RefSeq Size:	2783 bp
RefSeq ORF:	954 bp
Locus ID:	309513
UniProt ID:	Q5U2R5
Cytogenetics:	1q53
MW:	36.4 kDa
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 (By similarity).[UniProtKB/Swiss-Prot Function]