

Product datasheet for **RG218316**

PPP2R5D (NM_180977) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R5D (NM_180977) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP2R5D
Synonyms:	B56D; B56delta; MRD35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG218316 representing NM_180977
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCCTATAAACTGAAAAAGGAGAAGGAGCTGTTTATCCAGAAGCTACGCCAGTGTGTCTCTTTG
 ACTTCGTGTCAGACCCACTCAGTGACCTCAAATCAAGGAGTGAAGCGGCAGGACTCAACGAGATGGT
 GGAGTACATCACCCATAGCCGTGATGTTGTCAGTACGAGCCATTTACCCTGAGGCTGCACCATGTTTTCA
 GTGAACCTCTCCGGACGCTGCCACCTTCATCGAATCCCACAGGGGCTGAGTTTGACCCAGAGGAAGATG
 AGCCACCCCTGGAAGCTGCTTGGCCACATCTCCAGCTCGTGTATGAGTTCTTCTACGTTTCCTTGAGTC
 TCCTGATTTCCAGCCAACATAGCCAAGAAGTACATCGACCAGAAGTTTGTACTTGCTCTCTAGACCTA
 TTTGACAGTGAGGATCCTCGAGAGCGGGACTTCTCAAGACATTTTGCATCGCATCTATGGCAAGTTTT
 TGGGGCTCCGGGCTTATATCCGTAGGCAGATCAACCACATCTTCTACAGGTTTCATCTACGAGACGGAGCA
 TCACAACGGGATTGCTGAGCTCCTGGAGATCCTGGGCAGCATCATCAATGGCTTTGCCCTGCCCTTAA
 GAAGAGCACAAGATGTTCCCTCATCCGTGTCTACTTCCCCTTACAAGGTCAAGTCCCTGAGTGTCTACC
 ACCCTCAGCTGGCATACTGTGTGGTACAATTCCTGGAGAAGGAGAGCAGTCTGACTGAGCCGGTAATTGT
 GGGACTTCTCAAGTTTTGGCCCAAGACCCACAGCCCAAGGAGGTGATGTTCTTGAATGAGCTGGAGGAG
 ATTCTGGACGTCATTGAACCTTCTGAGTTCAGCAAAGTATGAAACCCCTCTTCCGCCAGCTGGCCAAGT
 GTGTCTCTAGCCCCATTTCCAGGTGGCAGAGCGTGTCTCTATTACTGGAACAATGAGTACATCATGAG
 CCTGATAAGTGACAATGCTGCCGAGTCTCCCATCATGTTCCCTGCACTCTACAGGAAGTCCAAGAGC
 CACTGGAACAAGACAATCCATGGACTGATCTATAATGCCCTGAAGTTGTTTATGGAATGAATCAGAAGC
 TGTTTGATGACTGCACACAACAATAACAAGGCAGAGAAGCAGAAGGGCCGGTCCGAATGAAGGAAAGGGA
 AGAGATGTGGCAAAAAATCGAGGAGCTGGCCCGGCTTAATCCCCAGTATCCCATGTTCCGAGCCCTCCA
 CCACTGCCCTGTGTAAGTCTGATGGAGACAGAGACCCACAGCTGAGGACATCCAGTCTGAAGAGGA
 CTGTGGAGACTGAGGCTGTTTCCAGATGCTAAAAGACATCAAGAAGGAGAAAGTGTGCTGCGGAGGAAGTC
 GGAGCTGCCCCAGGACGTGTACACCATCAAGGCACTGGAGGCGCACAAAGCGGGCGGAAGGTTTCTAACT
 GCCAGCCAGGAGGCTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG218316 representing NM_180977
 Red=Cloning site Green=Tags(s)

MPYKLLKEKELFIQKLRQCCVLFDFVSDPLSDLKFKEVKRAGLNEMVEYITHSRDVTVAIYPEAVTMS
 VNLFRTPSSNPTGAEFDPEEDEPTLEAAWPHLQLVYEFFLRFLFLESPDFQPNIAKKYIDQKFLALLDL
 FDESDPRERDFLKTILHRIYKFLGLRAYIRRQINHIYRFIYETEHHNGIAELLEILGSIINGFALPLK
 EEHKMFLIRVLLPLHKVKSLSVYHPQLAYCVVQFLEKESLTPVIVGLLKFVWPKTHSPKEVMFLNELEE
 ILDVIPESEFSKVMPLFRQLAKCVSSPHFQVAERALYWNNEYIMSLISDNAARVLPIMPALYRNSKS
 HWNKTIHGLIYNALKLFMEMNQKLFDDCTQQYKAEKQKGRFRMKEREEMWQKIEELARLNQYPMFRAPP
 PLPPVYSMETETPTAEDIQLLKRTVETEAVQMLKDIKKEKVLRRKSELQDVTYIKALEAHKRAEEFLT
 ASQEAL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoR I
BamH I *Kpn I*
RBS

Kozac
Consensus
Sgf I
Asc I

CTATAGGGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGSAGATCTGCCGCCGCATCGCCGGCGCCAGATCT

Hind III
Nhe I *Rsr II*
Mlu I
Not I
Xho I
GFP Tag

CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

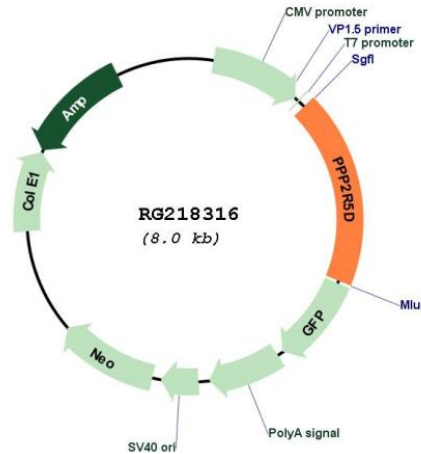
T
R
T
R
P
L
E
M
E
S
D
-
-
-

Pme I
Fse I

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCCGGAGCT

- - - E E R V Stop

Plasmid Map:



ACCN: NM_180977

ORF Size: 1488 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.

RefSeq: [NM_180977.3](#)

RefSeq Size: 2649 bp

RefSeq ORF: 1491 bp

Locus ID: 5528

UniProt ID: [Q14738](#)

Cytogenetics: 6p21.1

Protein Families: Phosphatase

Protein Pathways: Oocyte meiosis, Wnt signaling pathway

Gene Summary: The product of this gene belongs to the phosphatase 2A regulatory subunit B family. Protein phosphatase 2A is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The B regulatory subunit might modulate substrate selectivity and catalytic activity. This gene encodes a delta isoform of the regulatory subunit B56 subfamily. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]