

## Product datasheet for **RG200647**

### PPP2R5D (NM\_180976) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R5D (NM_180976) 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)



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**ORF Nucleotide Sequence:**

>RG200647 representing NM\_180976  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCCTATAAACTGAAAAAGGAGAAGGAGCCCCCAAGTTGCCAAATGCACAGCCAAGCCTAGCAGCT  
 CGGGCAAGGATGGTGGAGGCGAGAACACTGAGGAGGCCAGCCGAGCCCCAGCCCCAGCCCCAGCCCCA  
 AGCCAGTCTCAGCCACCGTCATCCAACAAGCGTCCCAGCAATAGCACGCCGCCCCCCACGCAGCTCAGC  
 AAAATCAAGTACTCAGGGGGGCCCCAGATTGTCAAGAAGGAGCTGTTTATCCAGAAGCTACGCCAGTGCT  
 GTGTCTCTTTGACTTCGTGTCAGACCCACTCAGTGACCTCAAATTCAGGAGGTGAAGCGGGCAGGACT  
 CAACGAGATGGTGGAGTACATCACCCATAGCCGTGATGTTGTCAGTGGCCATTTACCCTGAGGCTGTC  
 ACCATGTTTTAGTGAACTCTCCGGACGCTGCCACCTCATCGAATCCACAGGGGCTGAGTTTGACC  
 CAGAGGAAGATGAGCCCACCCTGGAAGCTGCTTGCCACATCTCCAGCTCGTGTATGAGTCTTCTTACG  
 TTTCTTGAGTCTCTGATTTCCAGCCAAACATAGCCAAGAAGTACATCGACCAGAAGTTTGTACTTGCT  
 CTCTAGACCTATTTGACAGTGAGGATCCCTCGAGAGCGGGACTTCTCAAGACCATTTTGCATCGCATCT  
 ATGGCAAGTTTTTGGGGCTCCGGGCTTATATCCGTAGGCAGATCAACCACATCTTCTACAGTTTCTACTA  
 CGAGACGGAGCATCACAACGGGATTGCTGAGCTCCTGGAGATCCTGGGCAGCATCATCAATGGCTTTGCC  
 CTGCCCTTAAAGAAGAGCACAAGATGTTCTCATCCGTGTCCTACTTCCCCTTACAAGGTCAAGTCCC  
 TGAGTGTCTACCACCCTCAGCTGGCATACTGTGTGGTACAATTCCTGGAGAAGGAGAGCAGTCTGACTGA  
 GCCGGTAATTGTGGGACTTCTCAAGTTTGGCCCAAGACCACAGCCCCAAGGAGGTGATGTTCTTGAAT  
 GAGCTGGAGGAGATTCTGGACGTCATTGAACCTTCTGAGTTCAGCAAAGTATGGAACCCCTCTCCGCC  
 AGCTGGCCAAGTGTCTCTAGCCCCATTTCCAGGTGGCAGAGCGTGCTCTATTACTGGAACAATGA  
 GTACATCATGAGCCTGATAAGTGACAATGCTGCCGAGTCTCCCATCATGTTCCCTGCACTCTACAGG  
 AACTCCAAGGCCACTGGAACAAGACAATCCATGGACTGATCTATAATGCCCTGAAGTTGTTTATGGAAA  
 TGAATCAGAAGCTGTTTATGACTGCACACAACAATAAAGGCAGAGAAGCAGAAGGGCCGGTCCGAAT  
 GAAGGAAAGGGAAGAGATGTGGCAAAAAATCGAGGAGCTGGCCCGGCTTAAATCCCAGTATCCCATGTT  
 CGAGCCCCCTCCACTGCCCTGTGTACTCGATGGAGACAGAGACCCACAGCTGAGGACATCCAGC  
 TTCTGAAGAGGACTGTGGAGACTGAGGCTGTTCCAGATGCTAAAAGACATCAAGAAGGAGAAAGTGTCT  
 GCGGAGGAAGTCGGAGCTGCCCCAGGACGTGTACACCATCAAGGCACTGGAGGCGCACAGCGGGCGGAA  
 GAGTTCCTAACTGCCAGCCAGGAGGCTCTC

**ACGCGT**ACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG200647 representing NM\_180976  
 Red=Cloning site Green=Tags(s)

MPYKLLKEKPEPKVAKCTAKPSSSGKDGGENTEEAQPQPQPQPQAQSQPPSSNKRPSNSTPPPTQLS  
 KIKYSGGPQIVKKELFIQKLRQCCVLFDFVSDPLSDLKFKVKRAGLNEMVEYITHSRDVVTEAIYPEAV  
 TMSVNLFRLLPSSNPTGAEFDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVLA  
 LLDLFDSEDPREDFLKTILHRIYGFGLRAYIRRQINHIYRFIYETEHHNGIAELLEILGSIINGFA  
 LPLKEEHKMFILRVLLPLHKVKSLSVYHPQLAYCVVQFLEKSSLTPEVIVGLLKFWPKTHSPKEVMFLN  
 ELEEILDVIEPSEFSKVMELFRQLAKCVSSPHFQVAERALYYWNNEYIMSLISDNAARVLPIMFPALYR  
 NSKSHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQYKAEKQKGRFRMKEREEMWQKIEELARLNPOYPMF  
 RAPPPLPPVYSMETETPTAEDIQLLKRTVETEAVQMLKDIKKEKVLRLRRKSELPQDVYTIKALEAHKRAE  
 EFLTASQEAL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_180976

**ORF Size:** 1710 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\\_180976.3](#)

**RefSeq Size:** 2871 bp

**RefSeq ORF:** 1713 bp

**Locus ID:** 5528

**UniProt ID:** [Q14738](#)

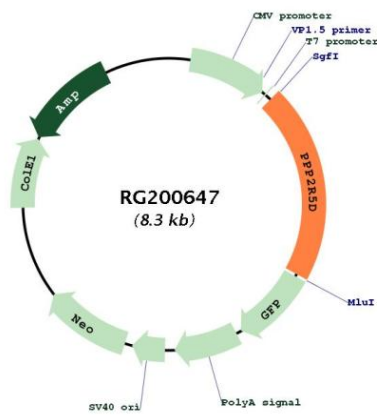
**Cytogenetics:** 6p21.1

**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]

**Product images:**



Circular map for RG200647