

## Product datasheet for **RG201945**

### PPP2R5D (NM\_006245) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R5D (NM_006245) 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:**

>RG201945 representing NM\_006245  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCCTATAAACTGAAAAAGGAGAAGGAGCCCCCAAGTTGCCAAATGCACAGCCAAGCCTAGCAGT  
 CGGGCAAGGATGGTGGAGGCGAGAACACTGAGGAGGCCAGCCGAGCCCCAGCCCCAGCCCCAGCCCCA  
 AGCCAGTCTCAGCCACCGTCATCCAACAAGCGTCCCAGCAATAGCACGCCGCCCCACGCAGCTCAGC  
 AAAATCAAGTACTCAGGGGGCCCCAGATTGTCAAGAAGGAGCGACGGCAAAGCTCTCCCGCTTCAACC  
 TCAGCAAGAATCGGGAGCTGCAGAAGCTTCTGCCCTGAAAGATTCGCCAACCCAGGAGCGGGAGGAGCT  
 GTTTATCCAGAAGCTACGCCAGTGTGTCTCTTTGACTTCGTGTGACACCCACTCAGTGACCTCAA  
 TTCAAGGAGGTGAAGCGGGCAGGACTCAACGAGATGGTGGAGTACATACCCATAGCCGTGATGTTGTCA  
 CTGAGGCCATTTACCCTGAGGCTGTCCCATGTTTTAGTGAACCTCTCCGGACGCTGCCACCTTCATC  
 GAATCCCACAGGGGCTGAGTTTGACCCAGAGGAAGATGAGCCACCTGGAAGCTGCTTGCCACATCTC  
 CAGCTCGTGTATGAGTCTTCTTACGTTTCCTTGAGTCTCCTGATTTCCAGCCAAACATAGCCAAGAAGT  
 ACATCGACCAGAAGTTGTACTTGTCTCTCTAGACCTATTTGACAGTGAGGATCCTCGAGAGCGGGACTT  
 CCTCAAGACCATTTTGCATCGCATCTATGGCAAGTTTTTGGGGCTCCGGGCTTATATCCGTAGGCAGATC  
 AACCACATCTTCTACAGTTTCATCTACGAGACGGAGCATCACAACGGGATTGCTGAGCTCCTGGAGATCC  
 TGGGCAGCATCATCAATGGCTTTGCCCTGCCCTTAAAGAAGAGCACAAGATGTTCTCATCCGTGTCTCT  
 ACTTCCCTTTCACAAGGTCAAGTCCCTGAGTGTCTACCACCTCAGCTGGCATACTGTGTGGTACAATTC  
 CTGGAGAAGGAGAGCAGTCTGACTGAGCCGTAATTGTGGGACTTCTCAAGTTTTGGCCCAAGACCACA  
 GCCCAAGGAGGTGATGTTCTTGAATGAGCTGGAGGAGATTCTGGACGTCATTGAACCTTCTGAGTTCAG  
 CAAAGTATGGAACCCCTCTCCGCCAGCTGGCCAAGTGTGTCTTAGCCCCATTTCAGGTGGCAGAG  
 CGTGCTCTCTATTACTGGAACAATGAGTACATCATGAGCCTGATAAGTGACAATGCTGCCGAGTCTCC  
 CCATCATGTTCCCTGCACTCTACAGGAECTCCAAGAGCCACTGGAACAAGACAATCCATGGACTGATCTA  
 TAATGCCCTGAAGTTGTTTATGGAATGAATCAGAAGCTGTTTGTGACTGCACACAACAATAACAAGGCA  
 GAGAAGCAGAAGGGCCGGTTCGAATGAAGGAAAGGGAAGAGATGTGGCAAAAAATCGAGGAGCTGGCC  
 GGCTTAATCCCCAGTATCCCATGTTCCGAGCCCTCCACCACTGCCCTGTGTACTCGATGGAGACAGA  
 GACCCCCACAGCTGAGGACATCCAGCTTCTGAAGAGGACTGTGGAGACTGAGGCTGTTCAGATGCTAAAA  
 GACATCAAGAAGGAGAAAGTGTCTGCTGCGGAGGAAGTCGGAGCTGCCCCAGGACGTGACACCATCAAGG  
 CACTGGAGGCGCAAGCGGGCGGAAGAGTTCCTAACTGCCAGCCAGGAGGCTCTC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG201945 representing NM\_006245  
 Red=Cloning site Green=Tags(s)

MPYKLKKEKPPKVAKCTAKPSSSGKDGGENTEEAQPQPQPQPQAQSQPPSSNKRPSNSTPPPTQLS  
 KIKYSGGPQIVKKERRQSSSRFNL SKNRELQKLPALKDSPTQEREELFIQKLRQCCVLFDFVSDPLSDLK  
 FKEVKRAGLNEMVEYITHSRDVVTEAIYPEAVTMFSVNLFRLLPSSNPTGAEFDPEEDEPTLEAAWPHL  
 QLVYEFFLRFLFESPDFQPNIAKKYIDQKFLALLDLFDESDPRERDFLKTILHRIYKFLGLRAYIRRQI  
 NHIFYRFIYETEHHNGIAELLEILGSIINGFALPLKEEHKMFIRVLLPLHKVKSLSVYHPQLAYCVVQF  
 LEKESSTPVIIVGLLKFWPKTHSPKVMFLNELEEILDVIEPSEFSKVMELFRQLAKCVSSPHFQVAE  
 RALYYWNEYIMSLISDNaARVLPIMFPALYRNSKSHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQYKA  
 EKQKGRFRMKEREEMWQKIEELARLNPQYPMFRAPPPLPPVYSMETETPTAEDIQLLKRTVETEAQMLK  
 DIKKEKVLRLRSELQDVYTIKALEAHKRAEEFLTASQEAL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_006245

**ORF Size:** 1806 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\\_006245.4](#)

**RefSeq Size:** 2975 bp

**RefSeq ORF:** 1809 bp

**Locus ID:** 5528

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

**Cytogenetics:** 6p21.1

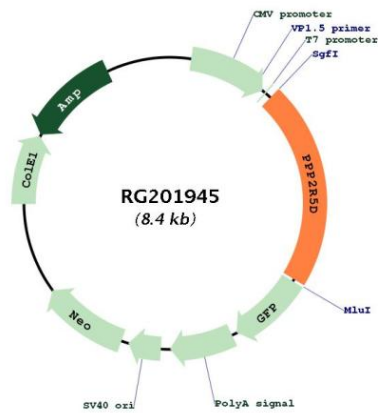
**Domains:** B56

**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 RG201945