

## Product datasheet for **RG206889**

### PPP2R5B (NM\_006244) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R5B (NM_006244) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP2R5B
Synonyms:	B56B; B56beta; PR61B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG206889 representing NM\_006244  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGACGAAGCTGCCCTGCAAGCACCCCACTAGCCCTCCTCCCCGGGCTGTCGCCTGTGCCCC  
 CACCCGACAAGGTGGACGGCTTCTCCCGCGTTCCCTCCGAGAGCCCGCCCGCGCTCCACAGCTC  
 CTCTCAGTTCCGCTATCAGAGCAACCAGCAAGAGCTCACACCGCTGCCCTGCTCAAAGATGTGCCGGCT  
 TCCGAGCTGCACGAGCTGCTGAGCCGGAAGCTGGCCAGTGTGGGTGATGTTTGACTTCTTGGACTGTG  
 TGGCCGACCTCAAGGGGAAGGAGGTGAAGCGGGCAGCCCTCAACGAGCTGGTGGAGTGTGTGGGAGCAC  
 CCGGGGTGCTCATCGAGCCCGTCTACCCAGACATCATCCGCATGATCTCAGTGAATATCTTCCGGACT  
 CTGCCGCCAGTGAGAACCCTGAATTTGACCCTGAAGAGGATGAGCCCAATCTTGAGCCTTCGTGGCCAC  
 ACCTGCAGCTGGTATATGAGTTTTCTGCGTTTCTTGGAGAGCCAGACTTCCAGCCCTCCGTGGCCAA  
 GAGATATGTGGATCAAAAGTTTGTCTGATGCTCCTGGAGCTATTTGATAGTGAGGATCCCCGGGAGCGT  
 GAGTACCTCAAGACCATCCTGCACCGGGTCTATGGCAAGTTCTGGGTCTCCGGGCTACATCCGCAAAC  
 AGTGCAACCACATCTTCTCCGGTTCATCTATGAATTCGAGCACTTCAATGGTGTGGCTGAGCTGCTGGA  
 GATCCTAGGAAGCATCATCAATGGCTTTCGCTGCCCTGAAGACGGAGCACAAGCAGTTCTGGTTCGC  
 GTCCTGATCCCCCTGCACTCTGTCAAGTCGCTGTCTGTCTCCATGCCAGCTGGCATACTGTGTGGTGC  
 AGTTCCTGGAGAAGGATGCCACTCTGACAGAGCACGTGATCCGGGGGCTGCTCAAATACTGGCAAAAAC  
 CTGACCCAGAAGGAGGTGATGTTTCTGGGGAGATGGAAGAGATTCTTGATGTCATCGAGCCCTCCAG  
 TTTGTGAAGATCCAGGAGCCCTTTTAAAGCAGGTGGCTCGCTGTGTTCCAGCCCCATTTCCAGTTG  
 CAGAGCGGGCTCTGATTTCTGGAACAATGAGTATATCCTAAGCCTCATTGAGGACAACGCCACTGT  
 GCTGCCTGCTGTGTTGGGACCCTCTACCAAGTCTCAAGGAGCACTGGAACCAACCATCGTATCACTG  
 ATCTACAATGTGCTCAAGACCTTCATGGAGATGAATGGGAAGCTGTTTGTGAGCTCACAGCCTCTACA  
 AGCTGGAAAAGCAGCAGGAGCAGCAGAAGGCCAGGAGCGTCAGGAGTTATGGCAAGGTCTGGAGGAGCT  
 GCGGCTACCGGCTACAGGGGCCAGGGGGCAAGGAGGCCCCCTCCAGCGGCTTACACCCAGGTG  
 GCCGCCAGTGGGGTCAGAGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG206889 representing NM\_006244  
 Red=Cloning site Green=Tags(s)

METKLPASTPTSPSSPGLSPVPPDKVDGFSRRSLRRARPRRSHSSSQFRYQSNQQLTPLLKDVPA  
 SELHELLSRKLAQCGVMDFDLDCVADLKGKEVKRAALNELVECVGSTRGVLIPEVVPDIIRMISVNI  
 LPPSENPEFDPEEPEPNLEPSWPHLQLVYEFFLRFLFLESPDFQPSVAKRYVDQKFLMLLELFDSE  
 DPREPRER EYLKTIILHRVYKFLGLRAYIRKQCNHIFLRFIYEFHFNGVAELLEILGSIINGFALPLKTEHKQFLVR  
 VLIPLHSVKLSVFHAQLAYCVVQFLEKDATLTEHVIRGLLKYWPKTCTQKEVMFLGEMEEILDVIEPSQ  
 FVKIQEPLFKQVARCVSSPHFQVAERALYFWNNEYILSLIEDNCHTVLPAVFGTLYQVSKEHWNQTI  
 VSL IYNVLKTFMEMNGKLFDEL TASYKLEKQEQQAQERQELWQGLEELRLRRLQGTQGAKEAPLQRLTPQV  
 AASGGQS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_006244

**ORF Size:** 1491 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\\_006244.4](#)

**RefSeq Size:** 2710 bp

**RefSeq ORF:** 1494 bp

**Locus ID:** 5526

**UniProt ID:** [Q15173](#)

**Cytogenetics:** 11q13.1

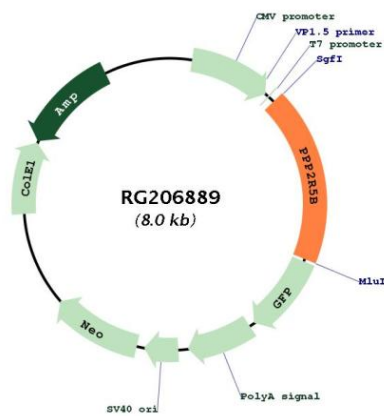
**Domains:** B56

**Protein Families:** Druggable Genome, 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 beta isoform of the regulatory subunit B56 subfamily. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG206889