

## Product datasheet for **RG214000**

### PPP2R5C (NM\_002719) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R5C (NM_002719) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP2R5C
Synonyms:	B56G; B56gamma; PR61G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214000 representing NM\_002719  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTGACATGTAATAAAGCGGGCAGCAGGATGGTGGTGGATGCGGCCAACTCCAATGGGCCTTTCCAGC  
 CCGTGGTCTTCTCCATATTCGAGATGTTCTCTGCTGATCAAGAGAAGCTTTTTATCCAGAAGTTACG  
 TCAGTGTGCGTCTCTTTGACTTTGTTTCTGATCCACTAAGTGACCTAAAGTGGAGGAAGTAAACGA  
 GCTGCTTTAAGTGAATGGTAGAATATATCACCCATAATCGGAATGTGATCACAGAGCCTATTTACCCAG  
 AAGTAGTCCATATGTTTGCAGTTAACATGTTTGAACATTACCACCTTCTCCAATCCTACGGGAGCGGA  
 ATTTGACCCGGAGGAAGATGAACCAACGTTAGAAGCAGCCTGGCCTCATCTACAGCTTGTATGAATTT  
 TTCTTAAGATTTTAGAGTCTCCAGATTTCCAACCTAATATAGCGAAGAAATATATTGATCAGAAGTTG  
 TATTGCAGCTTTAGAGCTTTTACAGTGAAGATCCTCGGGAGAGAGATTTTCTAAAACCACCCTTCA  
 CAGAATCTATGGGAAATTCCTAGGCTTACAGCTTACATCAGAAAACAGATAAAATATATTTTATAGG  
 TTTATTTATGAAACAGAGCATCATAATGGCATAGCAGAGTTACTGGAAATATTGGGAAAGTATAATTAATG  
 GATTTGCCTTACCACTAAAAGAAGACACAAGATTTTCTTATTGAAGGTGTTACTACCTTTGCACAAAGT  
 GAAATCTCTGAGTGTCTACCATCCCCAGCTGGCATACTGTGTAGTGCAGTTTTAGAAAAGGACAGCACC  
 CTCACGGAACCAAGTGGTATGGCACTTCTCAAATACTGGCCAAAGACTCACAGTCCAAAAGAAGTAAATGT  
 TCTTAAACGAATTAGAAGAGATTTAGATGTCAATGAACCATCAGAAATTTGTGAAGATCATGGAACCCCT  
 CTTCCGGCAGTTGGCCAAATGTGTCTCCAGCCCACTTCCAGGTGGCAGAGCGAGCTCTCTATTACTGG  
 AATAATGAATACATCATGAGTTTAAATCAGTGACAACGCAGCGAAGATTCTGCCCATCATGTTTCTTCTCT  
 TGTACCCTCACTCAAAGACCCATTGGAACAAGACAATACATGGCTTATACAAACGCCCTTCAAGCTCTT  
 CATGGAGATGAACCAAAAAGCTATTTGATGACTGTACACAACAGTTCAAAGCAGAGAAACTAAAAGAGAAG  
 CTA AAAATGAAAGAACGGGAAGAAGCATGGGTTAAAATAGAAAATCTAGCCAAAGCCAATCCCCAGTACA  
 CAGTGTATAGTCAAGCCAGCACCATGAGCATTCCGGTTGCAATGGAGACAGATGGGCCTTTATTTGAAGA  
 TGTGCAGATGCTGAGAAAGACAGTGAAGGACGAGGCTCATCAGGCACAGAAAGATCCGAAGAAGGACCGT  
 CCTCTTGACGCGCAAGTCCGAGCTGCCTCAGGACCCCAACCAAGAAAGCCTTGAAGCTCACTGCA  
 GGGCCGATGAGCTGGCCTCCAGGACGGCCG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG214000 representing NM\_002719  
 Red=Cloning site Green=Tags(s)

MLTCNKAGSRMVDAANSNGPFQPVVLLHIRDVPPADQEKLFIQKLRQCCVLFDFVSDPLSDLKWKVEKRA  
 AALSEMVEYITHNRNVIETPIYPEVVMHFAVNMFRLLPSSNPTGAEDPEEDEPTLEAAWPHLQLVYEF  
 FLRFLESPDFQPNIAKKYIDQKFLQLLELFDSEDPREDFLKTTLHRIYKFLGLRAYIRKQINNIFYR  
 FIYETEHHNGIAELLEILGSIINGFALPLKEEHKIFLLKVLPLHKVKSLSVYHPQLAYCVVQFLEKDST  
 LTEPVVMALLKYWPKTHSPKEVMFLNELEEILDVIEPSEFVKIMEPLFRQLAKCVSSPHFQVAERALYYW  
 NNEYIMSLISDNAKILPIMFPSLYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAEKLEK  
 LKMKEREEAWVKIENLAKANPQYTVYSQASTMSIPVAMETDGPLFEDVQMLRKTVKDEAHQAQKDPKKDR  
 PLARRKSELQPDPHTKKALEAHCRADELASQDGR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_002719

**ORF Size:** 1572 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\\_002719.4](#)

**RefSeq Size:** 4167 bp

**RefSeq ORF:** 1575 bp

**Locus ID:** 5527

**UniProt ID:** [Q13362](#)

**Cytogenetics:** 14q32.31

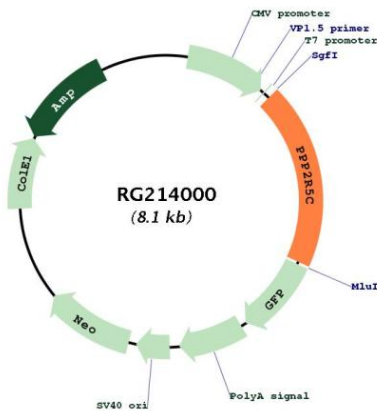
**Domains:** B56

**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 gamma 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 RG214000