

Product datasheet for **RG228446**

PPP2R5C (NM_001161725) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R5C (NM_001161725) 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:

>RG228446 representing NM_001161725
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGAATAAAAACAAGAAGGAGAAGAATCACCAAAGCAGGGAAGAGTGAAAAAGTTCAAAAGAAG
 GACAAGACACAGTAGAATCAGAGGGAACAAGTCCCTGAAGAACCCTCAAGCCCTAAAGTACCACCTCCACT
 TCTTCCTGAGTTGCTGGTTCTTATTTTTGGTGGGCTTCAAGGAAGAGATGTTCTCTGCTGATCAAGAG
 AAGCTTTTTATCCAGAAGTTACGTCACTGTTGCGTCTCTTTGACTTTGTTTCTGATCCACTAAGTGACC
 TAAAGTGAAGGAAGTAAAACGAGCTGCTTAAAGTGAATGGTAGAATATATCACCCATAATCGGAATGT
 GATCACAGAGCCTATTTACCCAGAAGTAGTCCATATGTTTGCAGTTAACATGTTTTCGAACATTACCACCT
 TCCTCCAATCCTACGGGAGCGGAATTTGACCCGGAGGAAGATGAACCAACGTTAGAAGCAGCCTGGCCTC
 ATCTACAGCTTGTATGAATTTTTCTAAGATTTTTAGAGTCTCCAGATTTCCAACCTAATATAGCGAA
 GAAATATATTGATCAGAAGTTTGTATTGCAGCTTTTAGAGCTTTTACAGTGAAGATCCTCGGGAGAGA
 GATTTTCTTAAAACCACCTTACAGAATCTATGGGAAATTCCTAGGCTTGAGAGCTTACATCAGAAAAC
 AGATAAATAATATATTTTATAGGTTTATTTATGAAACAGAGCATCATAATGGCATAGCAGAGTTACTGGA
 AATATTGGGAAGTATAATTAATGGATTTGCCTTACCCTAAAAGAAGAGCACAAGATTTTCTTATTGAAG
 GTGTTACTACCTTTGCACAAAGTGAATCTCTGAGTGTCTACCATCCCCAGCTGGCATACTGTGTAGTGC
 AGTTTTTAGAAAAGGACAGCACCTCACGGAACAGTGGTGTAGGCACTTCTCAAATACTGGCCAAAAGAC
 TCACAGTCCAAAAGAAGTAAATGTTCTTAAACGAATTAGAAGAGATTTTAGATGTCATTGAACCATCAGAA
 TTTGTGAAGATCATGGAACCCCTCTCCGGCAGTTGGCCAAATGTGTCTCCAGCCACACTCCAGGTGG
 CAGAGCGAGCTCTTACTGGAATAATGAATACATCATGAGTTAATCAGTGACAACGACGCAAGAT
 TCTGCCCATCATGTTTCTTCTTGTACCGCAACTCAAAGACCCATTGGAACAAGACAATACATGGCTTG
 ATATACAACGCCCTGAAGCTCTTATGAGATGAACCAAAAGCTATTTGATGACTGTACACAACAGTTCA
 AAGCAGAGAACTAAAAGAGAAGCTAAAATGAAAGAACGGGAAGAAGCATGGGTAAAATAGAAAATCT
 AGCCAAAGCCAATCCCCAGTACACAGTGTATAGTCAAGCCAGCACCATGAGCATTCCGGTTGCAATGGAG
 ACAGATGGGCCTTTATTTGAAGATGTGCAGATGCTGAGAAAGACAGTGAAGGACGAGGCTCATCAGGCAC
 AGAAAGATCCGAAGAAGGACCGTCTCTTGCACGCCGAAGTCCGAGCTGCCTCAGGACCCACACCAA
 GAAAGCCTTGAAGCTCACTGCAGGCGGATGAGCTGGCCTCCCAGGACGGCCGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG228446 representing NM_001161725
 Red=Cloning site Green=Tags(s)

MPNKNKKEKESPKAGKSGKSSKEGQDTVESEGTSPEEPSSPKVPPPLPELLVLIFGGLQGRDVPADQE
 KLFIQKLRQCCVLFDFVSDPLSDLKWKEVKRAALSEMVEYITHNRNVIETPIYPEVVMFAVNMFRTPP
 SSNPTGAEFDPDEDEPTLEAAWPHLQLVYEFFLRFLFESPDFQPNIAKKYIDQKFVLQLELFDSEDPRE
 DFLKTTLHRIYGKFLGLRAYIRKQINNIFRYFIYETEHNGIAELLEILGSIINGFALPLKEEHKIFLLK
 VLLPLHKVKSLSVYHPQLAYCVVQFLEKDSTLTPVVMALLKYWPKTHSPKEVMFLNELEEILDVIEPSE
 FVKIMEPLFRQLAKCVSSPHFQVAERALYYWNNEYIMSLISDNAAKILPIMFSLYRNSKTHWNKTIHGL
 IYNALKLFMEMNQKLFDDCTQQFKAELKEKLMKEREAAWVKIENLAKANPQYTVYSQASTMSIPVAME
 TDGPLFEDVQMLRKTVKDEAHQAQKDPKDRPLARRKSELQDPHTKKALEAHCRADELASQDGR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001161725

ORF Size: 1665 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_001161725.1](#), [NP_001155197.1](#)

RefSeq Size: 4494 bp

RefSeq ORF: 1668 bp

Locus ID: 5527

UniProt ID: [Q13362](#)

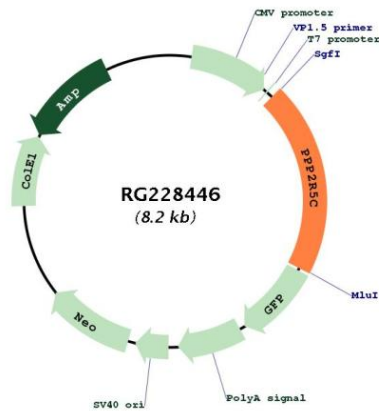
Cytogenetics: 14q32.31

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 RG228446