

Product datasheet for **RG234070**

PPP2R5A (NM_001199756) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R5A (NM_001199756) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP2R5A
Synonyms:	B56A; B56alpha; PR61A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG234070 representing NM_001199756 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATAATGAATGCCACTTCAAATGAACAACAAGAGCTTTTCTGTCAGAAGTTCAGCAGTGTGTATAC
TGTTTGATTTTCATGGACTCTGTTTCAGACTTGAAGAGCAAAGAAATTAAGAGCAACACTGAATGAACT
GGTTGAGTATGTTTCAACTAATCGTGGTGAATTGTTGAATCAGCGTATTCTGATATAGTAAAAATGATC
AGTGCTAACATCTCCGTACACTTCTCCAAGTGATAATCCAGATTTTGATCCAGAAGAGGATGAACCCA
CGCTTGAGGCCTCTGGCCTCACATACAGTTGGTATATGAATTCCTTGAGATTTTGGAGAGCCCTGA
TTTCCAGCCTAGCATTGCAAAACGATACATTGATCAGAAATTCGTACAACAGCTCCTGGAGCTTTTGTAT
AGTGAAGATCCCAGAGAACGTGACTTCTGAAAGACTGTTCTGCACCGAATTTATGGGAAATTTCTGGAT
TAAGAGCATTATCAGAAAAAATAACAACATTTTCTCAGGTTTATATGAAACAGAACATTTCAA
TGGTGTGCTGAACTTCTTGAATATTAGGAAGTATTATCAATGGCTTTGCATTGCCACTGAAAGCAGAA
CATAACAATTTCTAATGAAGTTCTTATTCTATGCATACTGCAAAAGGATTAGCTTTGTTTCATGCTC
AGCTAGCATATTGTGTTGTACAGTTCTGGAGAAAAGATACAACACTAACAGAGCCAGTGATCAGAGGACT
GCTGAAATTTGGCCAAAAACCTGCAGTCAGAAAGAGGTGATGTTTTAGGAGAAATTAAGAAATCTTA
GATGTCATTGAACCAACACAGTTCAAAAAAATGAAGAGCCACTTTTCAAGCAGATATCCAAGTGTGTAT
CCAGTTCTCATTTCAGGTTGCAGAAAGGCAATTGTACTTCTGGAATAACGAATATATTCTTAGTTTGTAT
TGAGGAGAACATTGATAAAATTCGCCAATTATGTTTGCAGTTTGTACAAAATTTCCAAAGAACACTGG
AATCCGACCATTGTAGCACTGGTATACAATGTGCTGAAAACCTAATGGAATGAATGGCAAGCTTTTCG
ATGACCTTACTAGCTCATACAAAGCTGAAAGACAGAGAGAGAAAAAGAAGGAATTGGAACGTGAAGAATT
ATGAAAAAATAGAGGAGCTAAAGCTAAAGAAAGCTCTAGAAAAACAGAATAGTGCTTACAACATGCAC
AGTATTCTCAGCAATACAAGTCCCGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG234070 representing NM_001199756
Red=Cloning site Green=Tags(s)

MIMNATSNEQQELFCQKLQCCILDFMDSVSDLKSKEIKRATLNELVEYVSTNRGVIVESAYSDIVKMI
 SANIFRTLPPSDNPDPDFPEEDEPTLEASWPHIQLVYEFFLRFLESPDFQPSIAKRYIDQKFVQQLLELFD
 SEDPRERDFLKTVLHRIYGKFLGLRAFIRKQINNIFLRFIYETEHFNGVAELLEILGSIINGFALPLKAE
 HKQFLMKVLI PMHTAKGLALFHAQLAYCVVQFLEKDTTLTEPVIRGLLKFWPKTCSQKEVMFLGEIEEIL
 DVIEPTQFKKIEEPLFKQISKCVSSSHFQVAERALYFWNNEYILSLIEENIDKILPIMFASLYKISKEHW
 NPTIVALVYNVLKTLMEMNGKLFDDLTSSYKAERQREKKKELEREELWKKLEELKLLKALEKQNSAYNMH
 SILSNTSAE

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001199756

ORF Size: 1287 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_001199756.2](#)

RefSeq Size: 2667 bp

RefSeq ORF: 1290 bp

Locus ID: 5525

UniProt ID: [Q15172](#)

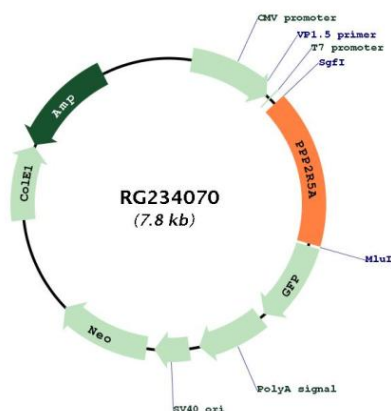
Cytogenetics: 1q32.3

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 an alpha isoform of the regulatory subunit B56 subfamily. Alternative transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RG234070