

## Product datasheet for **MG207793**

### **Ppp2r5a (BC059026) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ppp2r5a (BC059026) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ppp2r5a
Synonyms:	PR61alpha, MGC38798
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207793 representing BC059026  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGTCGTCGCGCTCGCCGCCGACCAGTTGCCTGCGCCGCATCTCGGCTCGGAGAAAGTGGACGGCT  
 TCACCCGGAAATCGGTGCGCAAGGCGCAGAGGCAGAAGCGCTCTCAGGGCTCGTCGAGTTCCGCAGCCA  
 GGGCAGCCAGGCGGAGCTGCACCCCTGCCACAGCTCAAAGATGCCACTTCAAATGAACAGCAAGAGCTT  
 TTCTGCCAGAAGCTACAACAGTGTGTACTGTTGATTTTCATGGACTCTGTCTCAGACTTGAAGAGCA  
 AAGAAATTAAGAGCGACGCTGAATGAACTGGTTGAGTATGTTTCAACTAATCGTGGTGAATTGTTGA  
 ATCAGCGTATTCTGATATAGTAAAAATGATCAGTGCTAACATCTCCGGACACTTCTCCAAGTGATAAT  
 CCAGATTTTGACCCGGAAGAGGATGAGCCACACTTGAGGCTCTTGGCCTCACATACAGTTGGTGTATG  
 AATTCTTCTTGAGATTCTTGAGAGTCTGATTTCCAGCCAGCATTGCAAAGCGATACATTGATCAGAA  
 GTTTGTCCAACAGCTCCTGGAGCTTTTGTAGTGAAGATCCACGGGAGCGGACTTCTGAAGACCGTC  
 CTGCATCGGATTTACGGCAAGTTCCTTGGCCTGAGAGCGTTCATCAGAAAGCAAATTAACAACATTTTCC  
 TCAGGTTTATATGAAACGGAACATTTCAATGGTGTGGCTGAGCTCTGGAAATATTGGGAAGTATCAT  
 CAATGGCTTTGCATTGCCACTGAAAGCAGAGCATAAGCAGTTTCTAATGAAGTTCTTATTCCTATGCAT  
 ACTGCAAAGGATTGGCCTTGTTCACGCACAGCTGGCGTACTGTGTGTGCAGTTCTGGAGAAAGACA  
 CAACGCTGACAGAGCCGGTATCAGAGGACTGCTGAAATTTGGCCAAAAACATGCAGTCAGAAAGAGGT  
 GATGTTTTTAGGAGAAATGAAGAGATCTAGATGTATTGAACCAACACAATTCAAAAAATTGAAGAG  
 CCGCTTTTTAAGCAGATATCCAAGTGCCTCCAGCTCTCATTTCCAGTTGCAGAAAGAGCACTGTACT  
 TCTGGAATAATGAATATATTCTTAGTTTGAAGAGAATATTGATAAAATCCTGCCAATCATGTTTGC  
 CAGCTTGATAAAATTTCAAAGAACACTGGAATCAGACTATTGTAGCACTGGTGTACAATGTGCTGAAA  
 ACCCTCATGGAGATGAACGGCAAGCTTTTTGACGACCTTACTAGTTCTCAAAGCCGAAAGACAGAGAG  
 AGAAGAAGAAAGAACTGGAACGGGAAGATTGTGGAAAAACTAGAGGAGCTGCAGCTGAAGAAGGCTCT  
 AGAGAAACAGAACAAATGCTTACAACATGCACAGTATTCGAGCAGTACCAGTGCCAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG207793 representing BC059026  
 Red=Cloning site Green=Tags(s)

MSSPSPAPVACAAISASEKVDGFTRKSVRKAQRQKRSQGSSQFRSQGSQAELHPLPQLKDATSNEQQEL  
 FCQKQQCCVLFDFMDSVSDLKSKEIKRATLNELVEYVSTNRGVIVESAYSIVKIMISANIFRTLPPSDN  
 PDFDPEEDEPTLEASWPHIQLVYEFFLRFLFLESPDFQPSIAKRYIDQKFVQQLLELFDSEDPREDFLKTV  
 LHRIYGFGLRAFIRKQINNIFLRFIYETEHNFGVAELLEILGSIINGFALPLKAEHKQFLMKVLI  
 PMHTAKGLALFHAQLAYCVVQFLEKDTTLTEPVIRGLLKFWPKTCSQKEVMFLGEIEEILDVIEPTQFKKIEE  
 PLFKQISKCVSSSHFQVAERALYFWNNEYILSLIEENIDKILPIMFASLYKISKEHWNQTIIVALVYNV  
 LKTLMEMNGKLFDDLTSSYKAERQREKKELEREELWKKLEELQLKKALEKQNNAYNMHSIRSSTSAK

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: BC059026

ORF Size: 1460 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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: BC059026, AAH59026

RefSeq Size: 3099 bp

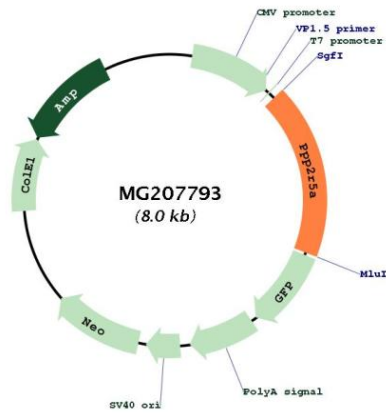
RefSeq ORF: 1460 bp

Locus ID: 226849

Cytogenetics: 1 H6

Gene Summary: The B regulatory subunit might modulate substrate selectivity and catalytic activity, and also might direct the localization of the catalytic enzyme to a particular subcellular compartment. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG207793