

## Product datasheet for **MG207982**

### **PPP2R5B (NM\_198168) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PPP2R5B (NM_198168) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP2R5B
Synonyms:	B'beta; BC026670
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207982 representing NM\_198168  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGACGAAGCTGCCCCCTGCGAGCACCCCCACAAGCCCTCCTCCCCAGGGTGTCTCCAGTGCCAC  
 CACCAGACAAGGTGGATGGCTTCTCCCGCAGGTCCCTCCGAGGGCCCGGCCCGTCTCAGTCCACAGCTC  
 TTCTCAGTTCCGCTATCAGAGCAACCAGCAAGAGCTCACTCCACTGCCCTGCTCAAAGATGTGCCAGCC  
 TCTGAGTTGCATGAGTTGCTGAGCCGAAACTGGCCCAATGTGGGGTGTGTTTGACTTCTTGGACTGCG  
 TGGCTGACCTCAAGGGGAAGGAGGTGAAGCGTGCAGCCCTCAATGAACTGGTGAATGTGTGGGTTGCAC  
 CCGGGGTGTGCTCATCGAGCCCGTCTACCAGACATCATCCGCATGATATCAGTAAATATCTTCCGGACC  
 CTGCCACCCAGCGAGAACCCTGAGTTTGACCCTGAAGAAGATGAGCCCAACCTTGAGCCCTCGTGGCCAC  
 ATCTGCAGCTGGTATATGAGTTTTCTGCGTTTCTTGGAGAGTCCAGATTTCCAGCCCTCTGTGGCCAA  
 GAGATACGTGGATCAAAAGTTTGTCTAATGCTCCTGGAGCTATTTGACAGCGAGGACCCCCGGGAACGT  
 GAGTACCTCAAGACCATCTTGCATCGGGGTACGGCAAGTTCTGGGTCTCCGGGCTACATCCGCAAAC  
 AGTGCAACCACATCTTCTCCGGTTCATCTACGAGCTGGAACACTTCAATGGTGTGGCTGAGCTCTTAGA  
 GATCTTAGGAAGCATCATCAATGGCTTTCGCGTCCCTGAAGACTGAGCACAAGCAGTTCTGGTTCGA  
 GTCCTGATCCCCTTGCACTCTGTCAAGTCACTATCTGTTTTTCATGCTCAGCTGGCATACTGTGTGGTGC  
 AGTTCTTGGAAGGATGCAACCTTGACAGAGCATGTTATCCGGGGCTTCTCAAATACTGGCCTAAAC  
 CTGACCCAGAAGGAGGTGATGTTCTGGGGGAGATGGAAGAGATTCTTGATGTCATCGAGCCCTCCAG  
 TTTGTGAAGATCCAGGAGCCCTCTTCAAGCAGGTGGCTCGCTGTGTCTCCAGCCCCATTTCCAGTTG  
 CAGAGCGGGCTCTGATTTCTGGAACAATGAGTACATCCTGAGCCTCATTGAGGACAACGCCACACTGT  
 GCTGCCTGCGGTATTTGGGACCCTCTACCAAGTGTCCAAGGAGCACTGGAATCAAACCATCGTGTCCCTG  
 ATCTACAACGTGCTCAAGACTTTCATGGAGATGAACGAAAGCTGTTTGACGAGCTCACAGCCTCTACA  
 AGCTGGAAAAACAACAGGAGCAGCAGAAGGCCAGGAGCGGCAGGAGCTATGGCGAGGCTTGAGGAACT  
 GCGGCTACCGGCTACAGGGACCCAAGGGCCAAGGAAGCCCCGTCACAGGCTACGCCCCAGGTG  
 GCTGCCAGTGGGGTCAGAGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207982 representing NM\_198168  
 Red=Cloning site Green=Tags(s)

METKLPASTPTSPSSPGLSPVPPPKVDGFSRRSLRRARPRRSHSSSQFRYQSNQQLTPLLKDVPA  
 SELHELLSRKLAQCGVMFDLDCVADLKGKEVKRAALNELVECVGCTRGVLIPEVVPDIIRMISVNI  
 LPPSENPEFDPEEPEPNLEPSWPHLQLVYEFFLRFLFLESPDFQPSVAKRYVDQKFLMLLELFDSE  
 DPREPRER EYLKTIILHRVYGFGLRAYIRKQCNHIFLRFIYELEHFNVAELLEILGSIINGFALPLKTEHKQFLVR  
 VLIPLHSVKLSVFHAQLAYCVVQFLEKDATL TEHVIRGLLKYWPKTCTQKEVMFLGEMEEILDVIEPSQ  
 FVKIQEPLFKQVARCVSSPHFQVAERALYFVNNEYILSLIEDNCHTVLPAVFGTLYQVSKEHWNQTI  
 VSL IYNVLKTFMEMNGKLFDEL TASYKLEKQEQQKAQERQELWRGLEELRLRRLQGTQGAKEAPVPRPTPQV  
 AASGGQS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

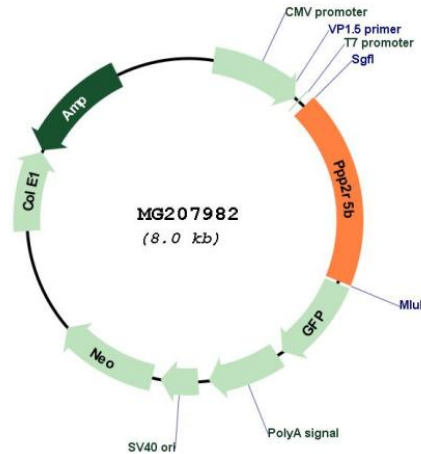
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_198168

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\\_198168.3](#)

**RefSeq Size:** 2709 bp

**RefSeq ORF:** 1494 bp

**Locus ID:** 225849

**UniProt ID:** [Q6PD28](#)

**Cytogenetics:** 19 A

**Gene Summary:** As the regulatory component of the serine/threonine-protein phosphatase 2A (PP2A) holoenzyme, modulates substrate specificity, subcellular localization, and responsiveness to phosphorylation. The phosphorylated form mediates the interaction between PP2A and AKT1, leading to AKT1 dephosphorylation.[UniProtKB/Swiss-Prot Function]