

## Product datasheet for **MG211287**

### **PPP4r1 (BC029761) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ppp4r1 (BC029761) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ppp4r1
Synonyms:	Pp4r1, MGC31567
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG211287 representing BC029761  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGACCTCTCCCTGCTCCAGGAGGACCTGCCGGAGGACCGGACGGACTTGATGTGGATGACTACA  
 GCTCAGAGTCTGATGTGATTATTATACCTTCAGCCCTGGACTTCGTCTCACAAGATGAAATGTTGACACC  
 CTTGGGGAGGCTGGACAAGTATGCTGCAAGTGAGAACGTAATTAACAGACAAATGGTGGCCCGAGTTTG  
 CTGGATACTCTGAGGGAAGTCTGCGATGATGAGAGAGACTGCATTGCTGTCTTGGAAAGAATTAGCCGAT  
 TAGCTGATGACTCCGAACCAACTGTGAGAGCGGAGCTGATGGAACAAGTGCCGCACATTGCACTGTTTTG  
 TCAAGAGAACCGGCTTCTATACCGTATGCTTTTTCCAAGTACTACTACCAATTGTGGTCAGATACCTC  
 GCAGACCAGAATAACCAGGTGAGGAAAACAGTCAGGCAGCTTTGCTGGCTCTGCTGGAGCAGGAACTGA  
 TTGAGCGATTTGACGTGGAGACCAAGGTGTGCCCTGTCCATAGACCTGACTGCCCCAGACAGCAATGA  
 TGATGTGAAGACAGAGGCTGTGGCTATAATGTGCAAGATGGCCCCATGGTTGGGAAGGACATTACGGAG  
 CGCTCATCTCCCAGGTTCTGCGAGATGTGCTGTGACTGTGCAATGTTTCATGTCCGGAAGGCTGCGG  
 CTGCCAATTTTGGAGATATTTGCAAGTGTAGTTGGCCAACAAGCAACAGAAGAAATGTTGCTGCCAGGTT  
 CTTCCAGCTGTGCTCTGATAACGTGTGGGGCGTCCGAAAGGCTTGCTGCTGAGTGCTTCATGGCTGTCTCC  
 TGTGCAACATGTCAAGAAATCCGACGGACAAAGTTATCAGCACTATTTATTAAGTATGATCAGTGATCCTT  
 CACGTTGGGTTTCGCAAGCAGCCTTTAGTCTCTGGGGCTTTTCATATCCACGTTTGCTAATCCATCAAG  
 CTCGGGCCAGTGCTTTAAAGATGAGAGCAAGAGCTCGGAAGACTCCTCGGCAGAAGACAAAGACAGGATG  
 AGAGACAGTGTGCTGTAAGAAGAGCATCGCAGGCCAGAGGACGCTCCTTCAGACCTCAGTGCCCTC  
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 GCAGCCCTCTACCAGGCCCTCCAATATCACCATGGCTACCCGGAAGGAACTAGAAGAAATGATAGAAA  
 ACCTTGAGCCACACATGGATGACCCGGATGTGAAAGCACAGGTGGAAGTGTGCTGTCGGCTGCCCTGCGAGC  
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 GTCAGTGAGCTTCCAGACTGTAAACATAAGTCACGACACTTGTGTGCCTTTGATCAGCGCTGCTGAGGAGA  
 ATGTGGAGGCCACTCCTGATTATGTCCATGGAGGTGCAGACGTAAGCCCTGGTGTGCTCAGCCCGGA  
 TGAAGATAGGAGACCCAAAGTCCAGGATGTTGTACCACAAGCGTACTGGATCAGTACTTGTCAATGACC  
 GACCTTCTCGAGCACAGACAGTTGACTGAGATCGCTAAGCACTGTGCATACAGTCTGCCGGGTGTGG  
 CCCTGACTCTTGGCAGACAGAAGTGGCACTGTTTGGGGAGACTTATGAGACCCTAGCGTCGGACATGCA  
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 GTTTTTGGTACAGACAACAGTAGAAAATGGCGCTTTCGAGCTGAACTGGCAGAACAGCTGATTTTACTT  
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 AAGTTTCTCAGTCCGCTGGATTTCTACAAGTTGGTCAAGTGAATGGTGAAGAACTCCACACAGCAAC  
 ACCACCAACCTTCGGAGTAGATCTCATCAATGAGCTGGTAGAGAAATTTGGCAGGTGTCCAAAATGGTCT  
 GGTCCGCAAGCCTTTGTCTTTGCTGCCAGACTGTCATTGAAGACGACTGCCTCCCCATGGACCAGTTTG  
 CTGTGCACTTGTGCCACATTTGCTGACCTTGGCAATGACAGGGTTCCCAATGTTAGAGTGTGCTTGC  
 GAAAACCTGCGACAGACTCTGCTGGAGAAAGAGTACTTTTTAGCCTCTGCCAGCTGTACCAGGAGGCC  
 GTGGAGCAGACAATCATGGCCCTGCAGATGGACCGAGACAGTGTCAAGTACTTTGCAAGCATCCACC  
 CCTCCAGTACCAAACCTCTGAAGATGCAATGAGCACAGCTTCTCCACCTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211287 representing BC029761  
 Red=Cloning site Green=Tags(s)

MADLSLLQEDLPEDADGLDVEDDYSSSDVIIIPSAIDFVSQDEMLTPLGRLDKYAAENVFNRQMVARS  
 LDTLREVCDDERDCI AVLERISRLADDSEPTVRAELMEQVPHIALFCQENRPSIPYAFSKYLLPIVVRYL  
 ADQNNQVRKTSQAALLALLEQELIERFDVETKVCPLIDL TAPDSNDDVKTEAVAIMCKMAPMVGKDITE  
 RLILPRFCMCCDCRMFHVVRKVCANFGDICSVVGQQATEMLLPRFFQLCSDNVWGVKACAECFMAVS  
 CATCQEI RRTKLSALFINLISDPSRWVRQAAFQSLGPFISTFANPSSSGQCFKDESKSSESSAEDKDRM  
 RDSVDVVEEHRRPEDAPSDL SAPH SARLESLEGCAAKTPGHSAGDVPAPVDSLLCTLSSSESPQEAASN  
 DENGKRKPD TNSKSASRPDAGTSSPEATPLDQDMFNSFHFWRTPLPKIDLKELQQDPEERLSPERTGDVP  
 AAPLPGPPNITMATRKEEEMIENLEPHMDDPDVKAQVEVL SAALRASSLDAHEETGGVEQRSELQDEVC  
 VSELPDCNISHDTCVPLISAAEENVEATPDYVHGGADVSPGDGFSPEDEDRRQVQDVVPQALLDQYL SMT  
 DPSRAQTVDTEIAKHCAYS L PGVALTLGRQNWHLRETYETLASDMQWKVRRTLAFSIELHAVILGDQLT  
 AADLVPIFNGLKDLDEVRI GVLKHLHDFLKLHIDKRREYL YLQEQFLVTDNSRNWRFRALAEQLILL  
 LELYSRVDYDYL RPIALNL CADKVSSVRWISYKLVSEMVKKLHTATPPTFGVDLINELVENFGRCPKWS  
 GRQAFVFCQTVIEDDCLPMDQFAVHLMPHLLTLANDRVPNVRVLLAKTLRQTLLEKEYFLASASCHQEA  
 VEQTIMALQMDRSDVKYFASIHPSSTKLS EDAMSTASSTY

TRTRPLE - GFP Tag - V

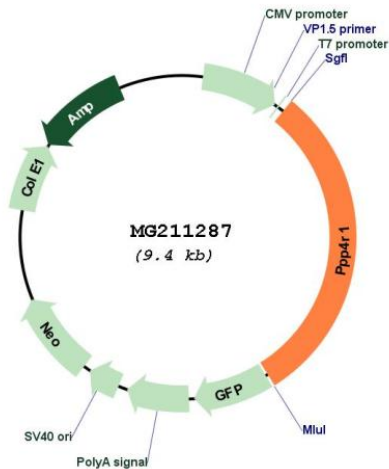
Restriction Sites:

SgfI-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: BC029761

ORF Size: 2855 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: [BC029761](#), [AAH29761](#)

RefSeq Size: 3739 bp

RefSeq ORF: 2855 bp

Locus ID: 70351

Cytogenetics: 17 E1.1

**Gene Summary:**

Regulatory subunit of serine/threonine-protein phosphatase 4. May play a role in regulation of cell division in renal glomeruli. The PPP4C-PPP4R1 PP4 complex may play a role in dephosphorylation and regulation of HDAC3 (By similarity).[UniProtKB/Swiss-Prot Function]