

## Product datasheet for **MG209326**

### **PPP4r1 (NM\_146081) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PPP4r1 (NM_146081) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP4r1
Synonyms:	3110001J10Rik; Pp4r1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209326 representing NM\_146081  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGAGACAATGATGTCGTAGAGAAGAGCATCGCAGGCCAGAGGACGCTCCTTCAGACCTCAGTGCCC  
 CCACTCCAGCGCCAGGCTGGAGAGCCTCGAAGGCTGTGCTGCCAAGACACCTGGGCACTCTGCAGGTGA  
 CGTGCCTGCTCCAGTGGACAGCTCCTTACTCTGTACTTTGTCCTCAGAGTCTCCTCAGGAAGCAGTAGC  
 AATGATGAGAATGGTAGAAAGCCTGACACCAACAGCAAGTCTGCGTCCCGGCCAGACGCTGGCACCAGCT  
 CCCCAGAGGCCACTCCCTTAGACCAGGACATGTTCAACTCCTTCCATTTCTGGAGGACTCCTCTACCTAA  
 AATAGATCTTGATAAAGAGCTCCAGCAGGACCCCGAGGAGAGACTCAGCCAGAGAGAACAGGAGATGTA  
 CCTGCAGCCCCTCTACCAGGCCCTCCCAATATCACCATGGCTACCCGGAAGGAACTAGAAGAAATGATAG  
 AAAACCTTGAGCCACACATGGATGACCCGGATGTGAAAGCACAGGTGGACGTGCTGTCGGCTGCCCTGCC  
 AGCTTCCAGCCTGGATGCTCACGAAGAGACTGGTGGTGTAGAGCAGCGGAGTGAGCTACAAGATGAAGTG  
 TGTGTCAGTGAGCTTCCAGACTGTAACATAAGTACGACACTTGTGTGCCTTTGATCAGCGCTGCTGAGG  
 AGAATGCGGAGGCCACTCCTGATTATGTCCATGGAGGTGCAGACGTAAGCCCTGGTGATGGCTTCAGCCC  
 GGATGAAGATAGGAGACCCAAAGTCCAGGATGTTGTACCAAGCGTTACTGGATCAGTACTTGTCAATG  
 ACCGACCTTCTCGAGCAGACAGTGGACTGAGATCGCTAAGCACTGTGCATACAGTCTGCCGGGTG  
 TGGCCCTGACTCTTGGCAGACAGAACTGGCACTGCTTGGGGAGACTTACGAGACCTAGCGTCGGACAT  
 GCAGTGGAAAGTTCGAAGGACTTAGCCTTCTCCATCCATGAGCTTGCAGTGATCCTTGGGACCAGCTG  
 ACAGTGCAGACCTGGTTCCAATCTTCAATGGATTTTTAAAAGACCTCGATGAAGTCAGGATAGGTGTTT  
 TTAACACTTGCATGACTTTCTGAAGCTTCTTACATTGATAAAAAGAAGAGAGTACCTTTATCAGCTCCA  
 GGAGTTTTTGGTACAGACAACAGTAGAAATGGCGCTTTCGAGCTGAAGTGGCAGAACAGCTGATTTTA  
 CTCTGGAGTTATACAGTCCCAGAGATGTTTATGATTACCTACGACCCATCGCTCTGAATCTGTGTGCAG  
 ACAAAGTTTCTCAGTCCGCTGGATTTCTACAAGTTGGTCAAGTAAATGGTGAAGAAATCCACACAGC  
 AACACCACCAACCTTCGGAGTAGATCTCATCAATGAGCTGGTAGAGAATTTGGCAGGTGTCCAAAATGG  
 TCTGGTCCGCAAGCCTTTGTCTTGTCTGCCAGACTGTCATTGAAGACGACTGCCTCCCATGGACCAGT  
 TTGCTGTGCACTTGATGCCACATTTGCTGACCTGGCAAATGACAGGGTCCCAATGTTAGAGTGTGCT  
 TGCGAAAACCTGCGACAGACTCTGCTGGAGAAAGAGTACTTCTTAGCCTCTGCCAGCTGTACCAGGAG  
 GCCGTGGAGCAGACAATCATGGCCCTGCAGATGGACCGAGACAGTGATGTCAAGTACTTTGCAAGCATT  
 ACCCTCCAGTACCAAATCTCTGAAGATGCAATGAGCACAGCTTCTCCACCTAC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>MG209326 representing NM\_146081  
 Red=Cloning site Green=Tags(s)

MRDNDVVEEHRPEDAPSDLSAPHSSARLESLEGCAAKTPGHSAGDVPAPVDSSLLCTLSSPQEAAS  
 NDENGRKPDNSKASRPDAGTSSPEATPLDQDMFNSFHFWRTPLPKIDLKELQQDPEERLSPERTGDV  
 PAAPLPGPPNITMATRKELEEMIENLEPHMDDPDVKAQVDVLSAALRASSLDAHEETGGVEQRSELQDEV  
 CVSELPDCNISHDTCVPLISAAEENAEATPDYVHGGADVSPGDGFSPEDEDRRPKVQDVVPQALLDQYLSM  
 TDPSRAQTVDTI AKHCAYSLPGVALTLGRQNWHLRETYETLASDMQWVRRTLAFSIELAVILGDQL  
 TAADLVPIFNGLKDLDEVRIQVGLKHLHDFLKLHIDKRREYLQQLQEFVLDNSRNWRFRAELAEQLIL  
 LLELYSPRDVYDYL RPIALNLCADKVSSVRWISYKLVSEMVKKLHTATPPTFGVDLINELVENFGRCPKW  
 SGRQAFVFCQTVIEDDCLPMDQFVHLMPHLLTLANDRVPNVRVLLAKTLRQTLLEKEYFLASASCHQE  
 AVEQTIMALQMDRSDVKYFASIHPSSTKLS DAMSTASSTY

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

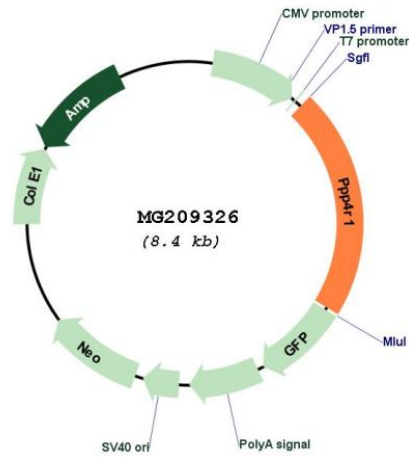
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_146081  
 ORF Size: 1806 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_146081.1</a> , <a href="#">NP_666193.1</a>
<b>RefSeq Size:</b>	3864 bp
<b>RefSeq ORF:</b>	2856 bp
<b>Locus ID:</b>	70351
<b>UniProt ID:</b>	<a href="#">Q8K2V1</a>
<b>Cytogenetics:</b>	17 E1.1
<b>Gene Summary:</b>	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]