

Product datasheet for **MR209326**

Ppp4r1 (NM_146081) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppp4r1 (NM_146081) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppp4r1
Synonyms:	3110001J10Rik; Pp4r1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209326 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGAGACAATGATGTCGTAGAGAAGAGCATCGCAGGCCAGAGACGCTCCTTCAGACCTCAGTGCCC
 CCACTCCAGCGCCAGGCTGGAGAGCCTCGAAGGCTGTGCTGCCAAGACACCTGGCACTCTGCAGGTGA
 CGTGCCTGCTCCAGTGGACAGCTCCTTACTCTGTACTTTGTCCTCAGAGTCTCCTCAGGAAGCAGCTAGC
 AATGATGAGAATGGTAGAAAGCCTGACACCAACAGCAAGTCTGCGTCCCGGCCAGACGCTGGCACCAGCT
 CCCCAGAGGCCACTCCCTTAGACCAGGACATGTTCAACTCCTTCCATTTCTGGAGGACTCCTCTACCTAA
 AATAGATCTTGATAAAGAGCTCCAGCAGGACCCCGAGGAGAGACTCAGCCAGAGAGAACAGGAGATGTA
 CCTGCAGCCCCTCTACCAGGCCCTCCCAATATCACCATGGCTACCCGGAAGGAACTAGAAGAAATGATAG
 AAAACCTTGAGCCACACATGGATGACCCGGATGTGAAAGCACAGGTGGACGTGCTGTCGGCTGCCCTGCC
 AGCTTCCAGCCTGGATGCTCACGAAGAGACTGGTGGTGTAGAGCAGCGGAGTGAGCTACAAGATGAAGTG
 TGTGTCAGTGAGCTTCCAGACTGTAACATAAGTACGACACTTGTGTGCCTTTGATCAGCGCTGCTGAGG
 AGAATGCGGAGGCCACTCCTGATTATGTCCATGGAGGTGCAGACGTAAGCCCTGGTGATGGCTTCAGCCC
 GGATGAAGATAGGAGACCCAAAGTCCAGGATGTTGTACCAAGCGTTACTGGATCAGTACTTGTCAATG
 ACCGACCTTCTCGAGCAGACAGTGGACTGAGATCGCTAAGCACTGTGCATACAGTCTGCCGGGTG
 TGGCCCTGACTCTTGGCAGACAGAACTGGCACTGCTTGGGGAGACTTACGAGACCCTAGCGTCGGACAT
 GCAGTGGAAAGTTCGAAGGACTTAGCCTTCTCCATCCATGAGCTTGCAGTGATCCTTGGGGACCAGCTG
 ACAGTGCAGACCTGGTCCAACTTCAATGGATTTTTAAAAGACCTCGATGAAGTCAGGATAGGTGTTT
 TTAACACTTGCATGACTTCTGAAGCTTCTTACATTGATAAAAAGAAGAGAGTACCTTTATCAGTCCCA
 GGAGTTTTTGGTGACAGACAACAGTAGAAATTTGGCGCTTTCGAGCTGAAGTGGCAGAACAGCTGATTTTA
 CTCTGGAGTTATACAGTCCCAGAGATGTTTATGATTACCTACGACCCATCGCTCTGAATCTGTGTGCAG
 ACAAGTTTCTTCACTCCGCTGGATTTCTACAAGTTGGTCAAGTAAATGGTGAAGAACTCCACACAGC
 AACACCACCAACCTTCGGAGTAGATCTCATCAATGAGCTGGTAGAGAATTTGGCAGGTGTCCAAAATGG
 TCTGGTCCGCAAGCCTTTGTCTTGTCTGCCAGACTGTCATTGAAGACGACTGCCTCCCATGGACCAGT
 TTGCTGTGCACTTGATGCCACATTTGCTGACCTTGGCAAATGACAGGGTCCCAATGTTAGAGTGTGCT
 TGCGAAAACCTGCGACAGACTCTGCTGGAGAAAGAGTACTTCTTAGCCTCTGCCAGCTGTACCAGGAG
 GCCGTGGAGCAGACAATCATGGCCCTGCAGATGGACCGAGACAGTGTCAAGTACTTTGCAAGCATTC
 ACCCTCCAGTACCAAACCTCTGAAGATGCAATGAGCACAGCTTCTCCACCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209326 protein sequence
 Red=Cloning site Green=Tags(s)

MRDNDVVEEHRPEDAPSDL SAPHSSARLESLEGCAAKTPGHSAGDVPAPVDSSLLCTLSSPQEAAS
 NDENGRKPDNTNSKASRPDAGTSSPEATPLDQDMFNSFHFWRTPLPKIDLKELQQDPEERLSPERTGDV
 PAAPLPGPPNITMATRKELEEMIENLEPHMDDPDVKAQVDVLSAALRASSLDAHEETGGVEQRSELQDEV
 CVSELPCNISHDTCVPLISAAEENAEATPDYVHGGADVSPGDGFSPEDEDRRPKVQDVVPQALLDQYLSM
 TDPSTRAQTVDEIAKHCAYSPLGVALTLGRQNWHLRETYETLASDMQWVRRRLAFSIELHAVILGDQL
 TAADLVPIFNGFLKDLDEVIRIGVLKHLHDFLKLHIDKRREYLYQLQEFLLVDNSRNWRFRAELAEQLIL
 LLELYSPRDVYDYLRIALNLCADKVSSVRWISYKLVSEMVKKLHTATPPTFGVDLINELVENFGRCPKW
 SGRQAFVFCQTVIEDDCLPMDQFAVHLMPHLLTLANDRVPNVRVLLAKTLRQTLLEKEYFLASASCHQE
 AVEQTIMALQMDRSDVKYFASIHPSSTKLSSEAMSTASSTY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_146081

ORF Size: 1809 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_146081.1](#), [NP_666193.1](#)

RefSeq Size: 3864 bp

RefSeq ORF: 2856 bp

Locus ID: 70351

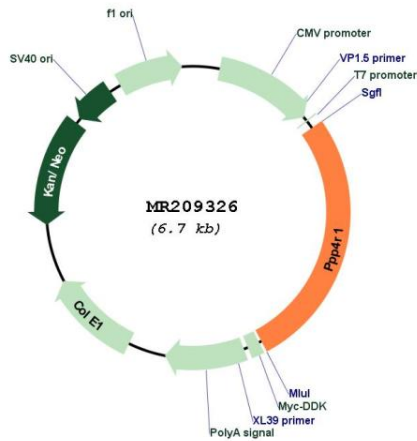
UniProt ID: [Q8K2V1](#)

Cytogenetics: 17 E1.1

MW: 67.2 kDa

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]

Product images:



Circular map for MR209326