

Product datasheet for MR205326

PPP1R8 (NM_146154) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1R8 (NM_146154) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP1R8
Synonyms:	6330548N22Rik; AU044684; NIPP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205326 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCAGCCGTGAACTCCGGCTCCAGCCTCCCGCTGTTGCGACTGCCCGACTTGGGCAGGTAACCAC
CACCTGGCTTACATCTGGATGTGGTGAAGGAGACAAGCTAATTGAGAAGCTGATTATTGATGAGAAAAA
GTATTACTTATTTGGGAGGAACCCCGATCTGTGTGACTTCACTATCGACCACCAGTCATGCTCTCGAGTC
CACGCAGCGCTGGTGTACCACAAACACCTGAAGAGAGTTTTCTTGATAGACCTCAACAGCACACATGGCA
CTTTCTTGGGTACATTCGGCTGGAACCTCACAAGCCTCAACAGATTCCCATCGATTCTACGGTCTCATT
TGGCGCGTCCACGAGGGCATACTCTGCGAGAGAAGCCTCAGACATTGCCATCGGCTGTGAAAGGAGAT
GAGAAGATGGGCGGAGAGGATGATGAACTCAAGGGCTTGTGGGACTTCCCGAAGAGGAGACCGAGCTGG
ATAACCTGACAGAGTTCAACTGCCCAACAAGCGGATTTCAACCCTCACTATTGAGGAGGGGAACCT
GGACATCCAGAGACCAAGAGGAAGAGGAAGAAGCAAGGGTGACCTTCAGTGAGGATGACGAGATCATC
AACCCAGAGGACGTGGATCCGTCTGTTGGTCCGGTCCGGAACATGGTGCAGACAGCAGTGGTCCAGTCA
AGAAGAAGCGGATGGAGGGCTCTGGCTCTCTGGGCTGGAGGAGTCGGGGAGCAGGCGCATGCAGAACTT
TGCTTTCAGTGGAGGACTATATGGGGGCTGCCCCACACACAGTGAACCGGGCTCCAGCCGCATGGC
ATTCATGGGACAGCGCTCATTGGTGGCTTGCCCATGCCATACCCGAACCTCGCCCTGATGTGGACTTGA
CTCCTGTTGTGCCATCAGCAGTGGCCATAAATCCACACCAACCCTGCAGTCTATAACCCTGAGGCTGT
GAATGAACCCAAGAAGAAGAAATACGCGAAGGAGGCTTGCCGGCAAGAAGCCACACCTTCTTACTG
ATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205326 protein sequence
Red=Cloning site Green=Tags(s)

MAAAVNSGSSLPDFDCPTWAGKPPPGLHLDVVKGDKLEIKLIIIDEKYYLFG RNPDLCDFIDHQS SRV
 HAALVYHKHLKRVFLIDLNSTHGTF LGHIRLEPHKPPQIPIDSTVSFGASTRAYTLREKPQTLPSAVKGD
 EKMGGEDDELKGLLGLPEEETELDNL TEFNTAHNKRI STL TIEEGLNDIQRPKRKRKNSRVTFSEDEII
 NPEDVDP SVGRFRNMVQTAVVPVKKRMEGSGSLGLEESGSRMQNF AFSGGLYGLLPPTHSETGSQPHG
 IHGTALIGGLPMPYPNLAPDVDLTPVVP SAVA INPTPNPAVYNPEAVNEPKKKKYAKEAWPGKKPTPSLL
 I

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_146154

ORF Size: 1056 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_146154.3](#)

RefSeq Size: 2060 bp

RefSeq ORF: 1056 bp

Locus ID: 100336

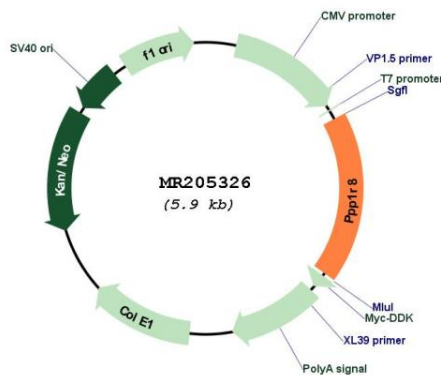
UniProt ID: [Q8R3G1](#)

Cytogenetics: 4 D2.3

MW: 38.5 kDa

Gene Summary: Inhibitor subunit of the major nuclear protein phosphatase-1 (PP-1). It has RNA-binding activity but does not cleave RNA and may target PP-1 to RNA-associated substrates. May also be involved in pre-mRNA splicing. Binds DNA and might act as a transcriptional repressor. Essential for cell proliferation and early embryonic development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205326