

Product datasheet for **MG205326**

PPP1R8 (NM_146154) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ppp1r8 (NM_146154) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ppp1r8
Synonyms: 6330548N22Rik; AU044684; NIPP1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205326 representing NM_146154
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCAGCCGTGAACTCCGGCTCCAGCCTCCCGCTGTTGCGACTGCCGACTTGGGCAGGTAACCAC
 CACCTGGCTTACATCTGGATGTGGTAAAGGAGACAAGCTAATTGAGAAGCTGATTATTGATGAGAAAA
 GTATTACTTATTTGGGAGGAACCCCGATCTGTGTGACTTCACTATCGACCACCAGTCATGCTCTCGAGTC
 CACGCAGCGCTGGTGTACCACAAACACCTGAAGAGAGTTTTCTTGATAGACCTCAACAGCACACATGGCA
 CTTTCTTGGGTACATTCGGCTGGAACCTCACAAGCCTCAACAGATTCCCATCGATTCTACGGTCTCATT
 TGGCGCGTCCACGAGGGCATACTCTGCGAGAGAAGCCTCAGACATTGCCATCGGCTGTGAAAGGAGAT
 GAGAAGATGGGCGGAGAGGATGATGAACTCAAGGGCTTGTGGGACTTCCCGAAGAGGAGACCGAGCTGG
 ATAACTGACAGAGTTCAACTGCCACAACAAGCGGATTTCAACCCTCACTATTGAGGAGGGGAACCT
 GGACATCCAGAGACCAAAGAGGAAGAGGAAGAACTCAAGGGTGACCTTCAGTGAGGATGACGAGATCATC
 AACCCAGAGGACGTGGATCCGCTGTGGTCCGGTCCGGAACATGGTGCAGACAGCAGTGGTCCAGTCA
 AGAAGAAGCGGATGGAGGGCTCTGGCTCTCTGGGCTGGAGGAGTCGGGGAGCAGGCCATGCAGAACTT
 TGCCTTCACTGGAGGACTATATGGGGCCTGCCCCACACACAGTGAACCGGGCTCCAGCCGCATGCC
 ATTCATGGGACAGCGCTCATTGGTGGCTTGCCATGCCATACCCGAACCTCGCCCTGATGTGGACTTGA
 CTCTGTGTGCCATCAGCAGTGGCCATAAATCCACACCAACCCTGCAGTCTATAACCCTGAGGCTGT
 GAATGAACCCAAGAAGAAGAAATACGCGAAGGAGGCTTGCCGGGCAAGAAGCCACACCTTCTTACTG
 ATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205326 representing NM_146154
 Red=Cloning site Green=Tags(s)

MAAAVNSGSSLPFLDCPTWAGKPPPGLHLDVVKGDKLEIKLIIDEKYYLFG RNPDLCDF TIDHQSCSRV
 HAALVYHKHLKRVFLIDLNSTHGTF LGHIRLEPHKPPQIPIDSTVSFGASTRAYTLREKQTLPSAVKGD
 EKMGGEDDELKGLLGLPEEETELDNLTEFN TAHNKRISTLTIEEGLNDIQRPKRKRKNSRVTFSEDEII
 NPEDVDP SVGRFRNMVQTAVVPVKKRMEGSGSLGLEESGSRMQNF AFSGGLYGGLPPTHSETGSQPHG
 IHGTALIGGLPMPYPNLAPD VDLTPVVPSAVA INPTPNPAVYNPEAVNEPKKKKYAKEAWPGKKPTPSLL
 I

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1671_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_146154

ORF Size: 1053 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: 2013 bp

RefSeq ORF: 1056 bp

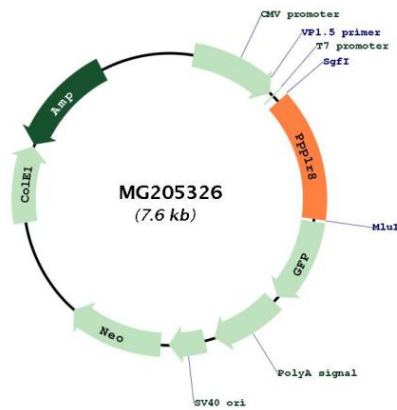
Locus ID: 100336

UniProt ID: [Q8R3G1](#)

Cytogenetics: 4 D2.3

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 MG205326