

Product datasheet for **MC220161**

Ppp1r15a (NM_008654) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppp1r15a (NM_008654) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ppp1r15a
Synonyms:	9630030H21; Gadd34; Myd116
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220161 representing NM_008654
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCCCGAGCCCAAGACCCCAGCATGTCCTGCACTGGAGGGACGCCACAACCTCTATCTCTGTCCC
 CACTGATGGGCTTGTCTAGTCGGCCTGGAGCCGCTGAGGGGCCAGAAGTCCCAGAGGCATGGCTGGC
 AAAAACAGTAACAGGAGCAGATCAGATAGAAGCTGCGGCTCTGTGACACCTACCCTGTCTCTGGTAAC
 CTCCTCCCTCATGGGAGACTGAAGAAAGTGGATCTCCTGAACAGAGTCAAGCAGCCCAGAGGCTGTGCC
 TTGTGGAAGCTGAAAGTCCCCTCTGAAACTTGGGGACTTTCAAATGTTGATGAGTACAATGCAAAGCC
 AGGACAAGATGACCTTAGAGAGAAGGAAATGGAACGCACAGCTGGCAAGGCCACACTACAGCCCCTGGC
 CTGCAAGGGGCTGATAAGAGGCTTGGGGAGGTGGTGGCTAGAGAAGAGGGAGTGGCTGAGCCCGCTATC
 CCACATCACAGCTGGAGGTTGGTCCAGCTGAGAATGAAGAGGATGGAGAAACAGTGAAGACTTACCAAGC
 TTCTGCTGCTCCATAGCTCCGGATACAAACCCAGCACCCCTGTGCCTTCTTGGGGAGGCAGAACAT
 CAAGCCACGGAAGAAAAAGGAACAGAAAACAAGGCTGACCCTCCAACCTCCTTCTCAGGCTCCCACT
 CCAGAGCCTGGGAGTACTACTCTAGAGAGAAGCCTAAGCAGGAGGGAGAAAGCCAGGTAGAGGCACACAG
 GGCAGGGCAGGGTACCCTTGTCCGAATGCTGAGGCTGAGGAAGGAGGACCTGAGACAACCTTTGTCTGT
 ACTGGAATGCCTTCTGAAGCCTGGGTGTATCGCCCAGGAGAGGACACAGAGGAAGAAGACAACAGCG
 ATTCGGATTACAGTGAAGACACAGCTCAGACCGGTGCCACCCCCATACAAGTGCCTTCTGAAGGC
 CTGGGTGTATCGCCCAGGAGAGGACACAGAGGAAGAAGACAGCGATTTCGGATTACAGTGAAGACACA
 GCTCAGACCGGTGCCACCCCCATACAAGTGCCTTCTGAAGCCTGGGTGTATCGCCCAGGAGAGGACA
 CAGAGGAAGAAAAACAGCGATTTGGATTACAGTGAAGAACACAGCTCAGACCGGTGCCACCCCCATAC
 AAGTGCCTTCTGAAGCCTGGGTGTATCGCCCAGGAGAGGACACAGAGGAAGAAAAACAGCGATTTGGAT
 TCAGCTGAGGAAGACACAGCTCAGACCGGTGCCACCCCCATACAAGTGCCTTCTGAAGCCTGGGTGT
 ATCGCCCAGGAGAGGACACAGAAGATGACACAGAAGAGGAAGAGGACAGTGAAGTGTGGCCCCAGGTGA
 CTCAGAAACAGCTGACTCAAGCCAGAGTCCCTGCCTTACGCCCAGCGTTGTCTACCAGGAGAGAAGACC
 AAGGGACGTGGGAAGAGCCCCCTCTTCCAGGTGGCCTTCTATTTACCCGGAGAGAAGCCAGAATCAC
 CTTGGGCTGCACCTAAGCTGCCCTTTCGACTGCAGAGGCGGCTCAGATTGTTCAAAGCCCCACCCGGGA
 TCAGGACCCCGAGATTCCTCTAAAAGCTCGGAAGGTACACTTCGCTGAGAAAGTACAGTCCATTCCTT
 GCTGTCTGGGACGACCAGCCAAAGCTGCCCGTCGAGGTCCCTGGGAGCAGTTTGCACGAGATCGAAGCC
 GCTTTGCTCGACGATTGCCAGGACAGGAGAAGCTGGGTCCCTACCTACCCCTGATTCCAGGGCCAG
 AGCATGGGCACGCCTTAGAAACCATCTCTCCACAGTCCGAGCCTCGCTCTTCTCTGAGGCCACTCCC
 TTGACCCAAGATGTGACCACACCCTCTCCCTTCCAGTGAACCCCTTCCGCCAGCCTGTACTTGGGAG
 GGAGGCGGGGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_008654
- Insert Size:** 1974 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_008654.2](#), [NP_032680.1](#)

RefSeq Size: 2345 bp

RefSeq ORF: 1974 bp

Locus ID: 17872

UniProt ID: [P17564](#)

Cytogenetics: 7 B3

Gene Summary: Recruits the serine/threonine-protein phosphatase PP1 to dephosphorylate the translation initiation factor eIF-2A/EIF2S1, thereby reversing the shut-off of protein synthesis initiated by stress-inducible kinases and facilitating recovery of cells from stress. Down-regulates the TGF-beta signaling pathway by promoting dephosphorylation of TGFB1 by PP1. May promote apoptosis by inducing TP53 phosphorylation on 'Ser-15'. In case of infection with vesicular stomatitis virus (VSV), impairs viral replication.[UniProtKB/Swiss-Prot Function]