

Product datasheet for **MR227514**

Ppp1r15a (NM_008654) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppp1r15a (NM_008654) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide
Sequence:

>MR227514 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCCATGGCCCCGAGCCCAAGACCCCAGCATGTCCTGCACTGGAGGGACGCCACAACCTCTATCTCTGTCCC
CACTGATGGGCTTGCTCAGTCGGCCTGGAGCCGCTGAGGGGCCAGAAGTCCCAGAGGCATGGCTGGC
AAAAACAGTAACAGGAGCAGATCAGATAGAAGCTGCGGCTCTGCTGACACCTACCCTGTCTCTGGTAAC
CTCCTCCCTCATGGGAGACTGAAGAAAGTGGATCTCCTGAACAGAGTCAAGCAGCCCAGAGGCTGTGCC
TTGTGGAAGCTGAAAGTCCCCTCTGAAACTTGGGGACTTTCAAATGTTGATGAGTACAATGCAAAGCC
AGGACAAGATGACCTTAGAGAGAAGGAAATGGAACGCACAGCTGGCAAGGCCACACTACAGCCCCTGGC
CTGCAAGGGGCTGATAAGAGGCTTGGGGAGGTGGTGGCTAGAGAAGAGGGAGTGGCTGAGCCCGCTATC
CCACATCACAGCTGGAGGTTGGTCCAGCTGAGAATGAAGAGGATGGAGAAACAGTGAAGACTTACCAAGC
TTCTGCTGCTTCCATAGCTCCGGGATACAAACCCAGCACCCCTGTGCCTTCTTGGGGGAGGCAGAACAT
CAAGCCACGGAAGAAAAAGGAACAGAAAACAAGGCTGACCCTCCAACCTCCTTCTCAGGCTCCCACT
CCAGAGCCTGGGAGTACTACTCTAGAGAGAAGCCTAAGCAGGAGGGAGAAAGCCAGGTAGAGGCACACAG
GGCAGGGCAGGGTCACCTTGTGCGAATGCTGAGGCTGAGGAAGGAGGACCTGAGACAACCTTTGTCTGT
ACTGGAATGCCTTCTGAAGGCCTGGGTGTATCGCCCAGGAGAGGACACAGAGGAAGAAGACAACAGCG
ATTCGGATTACAGTGAAGACACAGCTCAGACCGGTGCCACCCCCATACAAGTGCCTTCTGAAGGC
CTGGGTGTATCGCCCAGGAGAGGACACAGAGGAAGAAGACAGCGATTTCGGATTACAGTGAAGACACA
GCTCAGACCGGTGCCACCCCCATACAAGTGCCTTCTGAAGGCCTGGGTGTATCGCCCAGGAGGAGACA
CAGAGGAAGAAAAACAGCGATTTGGATTACAGTGAAGACACAGCTCAGACCGGTGCCACCCCCATAC
AAGTGCCTTCTGAAGGCCTGGGTGTATCGCCCAGGAGAGGACACAGAGGAAGAAAAACAGCGATTTGGAT
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ATCGCCCAGGAGAGGACACAGAAGATGACACAGAAGAGGAAGAGGACAGTGAAGTGTGGCCCCAGGTGA
CTCAGAAACAGCTGACTCAAGCCAGAGTCCCTGCCTTACGCCCCAGCGTTGTCTACCAGGAGAGAAGACC
AAGGGACGTGGGAAGAGCCCCCTCTTCCAGGTGGCCTTCTATTTACCCGGAGAGAAGCCAGAATCAC
CTTGGGCTGCACCTAAGCTGCCCTTTCGACTGCAGAGGCGGCTCAGATTGTTCAAAGCCCCACCCGGGA
TCAGGACCCCGAGATTCCTCTAAAAGCTCGGAAGGTACACTTCGCTGAGAAAGTCACAGTCCATTTCTT
GCTGTCTGGGCAGGACCAGCCAAAGCTGCCCGTCGAGGTCCCTGGGAGCAGTTTGCACGAGATCGAAGCC
GCTTTGCTCGACGATTGCCAGGACAGAGGAGAAGCTGGGTCCCTACCTTACCCCTGATTCCAGGGCCAG
AGCATGGGCACGCCTTAGAAACCATCTCTTCCACAGTCCGAGCCTCGCTCTTCTCTGAGGCCACTCCC
TTGACCAAGATGTGACCACACCCTCTCCCTTCCAGTGAACCCCTTCCGCCAGCCTGTACTTGGGAG
GGAGGCGGGGCACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227514 protein sequence
Red=Cloning site Green=Tags(s)

MAPSPRPQHVLHWRDAHNFYLLSPLMGLLSRAWSRLRGPEVPEAWLAKTVTGADQIEAAALLTPTPVSGN
 LLPHGTEESGSPEQSQAARLCLVEAESSPPETWGLSNVDEYNAKPGQDDLREKEMERTAGKATLQPAG
 LQGADKRLGEVVAREEGVAEPAYPTSQLEGGPAENEDGETVKTYQASAASIAPGYKPTPVPFLGAEH
 QATEEKGTENKADPSNSPSSGSHSRAWEEYSREKPKQEGEAKVEAHRAGQGHPCRNAEAEEGPETTFVC
 TGN AFLKAWVYRPGEDTEEDNSDSDSAEEDTAQTGATPHTSAFLKAWVYRPGEDTEEDSDSDSAEEDT
 AQTGATPHTSAFLKAWVYRPGEDTEEDNSDLSAEEDTAQTGATPHTSAFLKAWVYRPGEDTEEDNSDL
 SAEEDTAQTGATPHTSPFLKAWVYRPGEDTEDTEEDSENVAPGDSETADSSQSPCLQPQRCLPGEKT
 KGRGEEPLFQVAFYLPGEKPEPWAAPKPLRLQRRLRFLKAPTRDQDPEIPLKARKVHF AEKVTVHFL
 AVWAGPAQAARRGPWEQFARDRSRFARRIAQAEKLGPLYLTPDSRARAWARLRNPSLPQSEPRSSSEATP
 LTQDVTTSPPLPSETSPSLYLGGRRG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_008654

ORF Size: 1974 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_008654.2](#), [NP_032680.1](#)

RefSeq Size: 2345 bp

RefSeq ORF: 1974 bp

Locus ID: 17872

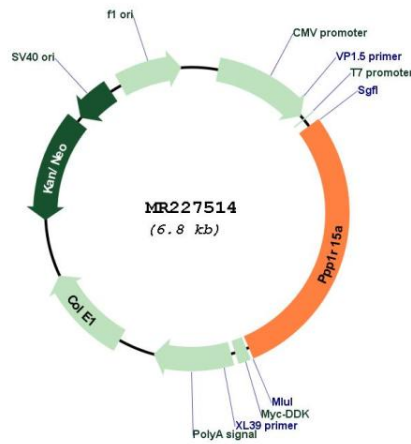
UniProt ID: [P17564](#)

Cytogenetics: 7 B3

MW: 71.8 kDa

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 TGFβ1 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]

Product images:



Circular map for MR227514