

Product datasheet for **MG227514**

Ppp1r15a (NM_008654) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppp1r15a (NM_008654) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ppp1r15a
Synonyms:	9630030H21; Gadd34; Myd116
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227514 representing NM_008654
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCCCCGAGCCCAAGACCCAGCATGTCCTGCACTGGAGGGACGCCACAACCTCTATCTCCTGTCCC
 CACTGATGGGCTTGCTCAGTCGGGCCTGGAGCCGCTGAGGGGCCAGAACTCCAGAGGCATGGCTGGC
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 AGCATGGGCACGCCTTAGAAACCATCTCTTCCACAGTCCGAGCCTCGCTCTTCTCTGAGGCCACTCCC
 TTGACCCAAGATGTGACCACACCCTCTCCCTTCCCAGTGAACCCCTTCGCCCAGCCTGTACTTGGGAG
 GGAGGCGGGC

ACGCGTACGCGGGCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG227514 representing NM_008654
 Red=Cloning site Green=Tags(s)

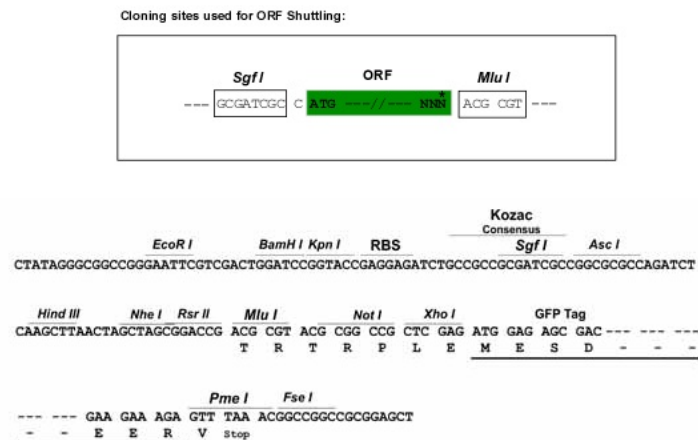
MAPSPRPQHVLHWRDAHNFYLLSPLMGLLSRAWSRLRGPEVPEAWLAKTVTGADQIEAAALLTPTPVSGN
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 SAEEDTAQTGATPHTSPFLKAWVYRPGEDTEEDSENVAPGDSETADSSQSPCLQPQRCLPGEKT
 KGRGEEPLFQVAFYLPGEKPESPAAPKLPLRLQRRLLFKAPTRDQDPEIPLKARKVHFAEKVTVHFL
 AVWAGPAQAARRGPWEQFARDRSRFARRIAQAEKLGPLYTPDSRARAWARLRNPSLPQSEPRSSSEATP
 LTQDVTPSPLPSETSPSLYLGGRRG

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_008654

ORF Size: 1971 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_008654.2](#), [NP_032680.1](#)

RefSeq Size: 2345 bp

RefSeq ORF: 1974 bp

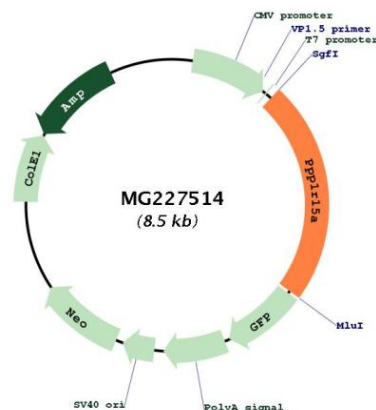
Locus ID: 17872

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]

Product images:



Circular map for MG227514