

Product datasheet for **MG224747**

Eif5a2 (NM_177586) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Eif5a2 (NM_177586) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Eif5a2
Synonyms: 9630038B20; eIF5AII
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG224747 representing NM_177586
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGACGAAATTGATTTCACTACTGGAGATGCAGGGGCTTCCAGCACTTATCCTATGCAGTGCTCAG
 CCCTGCGCAAAAACGGCTTCGTGCTGCTCAAAGGGCGACCATGCAAAATCGTGGAGATGTCAACTCCAA
 GACTGGGAAGCATGGTCATGCCAAGGTACACCTTGTGGAAATTGACATTTCACTGGCAAAAATATGAA
 GACATTTGTCCTTCTACTACAACATGGATGTTCAAATATTAAGAGAAACGATTATCAACTCATATGCA
 TTCAGGATGGTTACCTTTCCCTGCTGACAGAACTGGCGAAGTCCGTGAAGATCTTAAGCTGCCAGAAGG
 TGAAGTGGCAAAAGAAATAGAAGGGAAATACAATGCAGGTGAAGATGTGCAGGTGTCTGTCATGTGTGCC
 ATGAGTGAAGAATACGCTGTAGCCATAAAGCCCTGCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224747 representing NM_177586
 Red=Cloning site Green=Tags(s)

MAEIDFTTG DAGASSTYPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGKAVHLVGIDIFTGKKYE
 DICPSTHNMDVPIKRNQYQLICIQDGYLSLLTETGEVREDLKLPEGELKEIEGKYNAGEDVQVSVMCA
 MSEEYAVAIPCK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

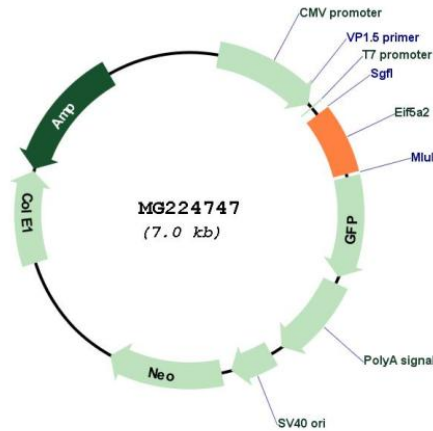


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Cloning Scheme:



Plasmid Map:



ACCN: NM_177586

ORF Size: 459 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:	<ol style="list-style-type: none">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_177586.6
RefSeq Size:	4992 bp
RefSeq ORF:	462 bp
Locus ID:	208691
UniProt ID:	Q8BGY2
Cytogenetics:	3 A3
Gene Summary:	mRNA-binding protein involved in translation elongation. Has an important function at the level of mRNA turnover, probably acting downstream of decapping. Involved in actin dynamics and cell cycle progression, mRNA decay and probably in a pathway involved in stress response and maintenance of cell wall integrity. Functions as a regulator of apoptosis. Mediates effects of polyamines on neuronal process extension and survival. May play an important role in brain development and function, and in skeletal muscle stem cell differentiation (By similarity).[UniProtKB/Swiss-Prot Function]