

Product datasheet for **RR215547**

Eif5a (NM_001033681) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Eif5a (NM_001033681) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Eif5a
Synonyms: MGC124873
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215547 representing NM_001033681
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

**ATGGCAGATGATTTGGACTTCGAGACAGGAGATGCAGGGCCTCAGCCACCTTCCAATGCAGTGCTCAG
CATTACGTAAGAATGGTTTTGTGGTCTCAAGGCGGCCATGTAAGATCGTCGAGATGTCTACTTCGAA
GACTGGCAAGCATGGCCATGCCAAGTCCATCTGGTTGGTATTGATATTTTTACTGGGAAGAAATATGAA
GATATCTGCCCGTCGACTCATAACATGGATGTCCCAACATCAAAGGAATGATTTCCAGCTGATTGGCA
TCCAGGATGGGTACCTATCCCTGCTCCAGGACAGTGGGGAGGTACGAGAGGACCTTCGTCTGCCTGAGGG
AGACCTTGGCAAGGAGATTGAGCAGAAGTATGACTGTGGAGAAGAGATCCTGATCACAGTGTGTCCGCC
ATGACAGAGGAGGAGCTGTTGCAATCAAGGCCATGGCAAAA**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >RR215547 representing NM_001033681
Red=Cloning site **Green**=Tags(s)

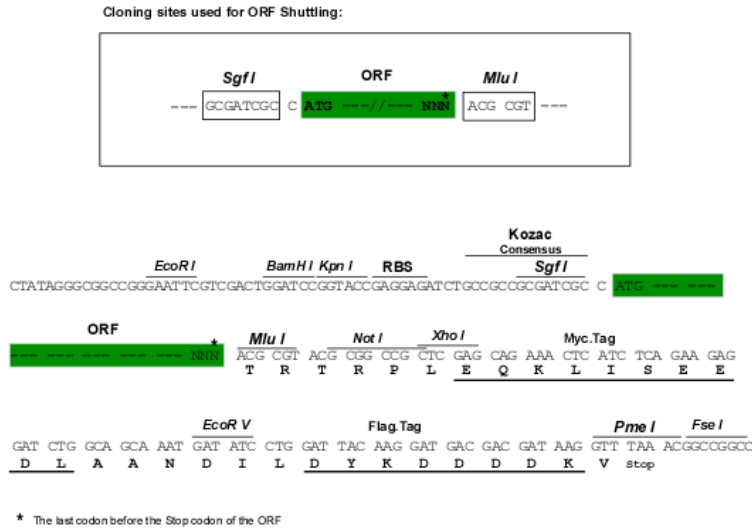
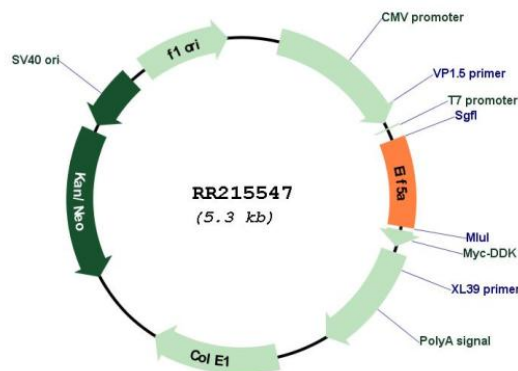
MADDLDFETGDAGASATFPMQCSALRKNFVVLKGRPCKIVEMSTSKTGKHGAKVHLVGIDIFTGKKYE
DICPSTHNMDVPNIKRNDFQLIGIQDGYLSLLQDSGEVREDLRLPEGDLGKEIEQKYDCGEEILITVLSA
MTEEAAVAIAKAMAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001033681

ORF Size: 462 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: | <u>NM_001033681.1, NP_001028853.1</u> |
| RefSeq Size: | 1213 bp |
| RefSeq ORF: | 465 bp |
| Locus ID: | 287444 |
| UniProt ID: | <u>Q3T1J1</u> |
| Cytogenetics: | 10q24 |
| MW: | 16.8 kDa |
| 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. With syntenin SDCBP, functions as a regulator of p53/TP53 and p53/TP53-dependent apoptosis. Regulates also TNF-alpha-mediated apoptosis. Mediates effects of polyamines on neuronal process extension and survival (By similarity). May play an important role in brain development and function, and in skeletal muscle stem cell differentiation.[UniProtKB/Swiss-Prot Function] |