

Product datasheet for **RC200770**

EIF5A (NM_001970) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: EIF5A (NM_001970) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: EIF5A
Synonyms: eIF-4D; EIF-5A; EIF5A1; eIF5AI
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200770 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGATGACTTGGACTTCGAGACAGGAGATGCAGGGGCTCAGCCACCTTCCCAATGCAGTGCTCAG
 CATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCCGCCATGTAAGATCGTCGAGATGTCTACTTCGAA
 GACTGGCAAGCACGGCCACGCCAAGGTCCATCTGGTTGGTATTGACATCTTTACTGGGAAGAAATATGAA
 GATATCTGCCGTAACATATAATGGATGTCCCAACATCAAAGGAATGACTCCAGCTGATTGGCA
 TCCAGGATGGGTACCTATCACTGCTCCAGGACAGCGGGGAGGTACGAGAGGACCTTCGTCTCCCTGAGGG
 AGACCTTGCCAAGGAGATTGAGCAGAAGTACGACTGTGGAGAAGAGATCCTGATCACGGTGTCTGCC
 ATGACAGAGGAGGAGCTGTTGCAATCAAGCCATGGCAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200770 protein sequence
 Red=Cloning site Green=Tags(s)

MADDLDFETGDAGASATFPMQCSALRKNFVVLKGRPCKIVEMSTSKTGKHGKAVHLVGIDIFTGKKYE
 DICPSTHNMVDPNIKRNDQLIGIQDGYLSLLQDSGEVREDLRLPEGDLKEIEQKYDCGEEILITVLSA
 MTEEAAVAIAKAMAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6053_g11.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001970

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:

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.

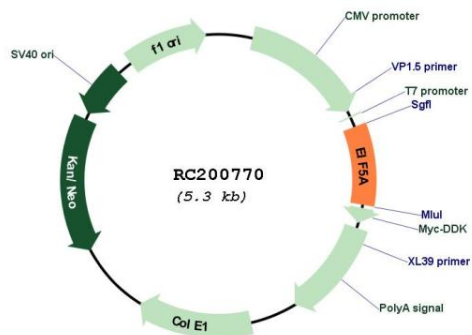
RefSeq: [NM_001970.5](#)

RefSeq Size: 1355 bp

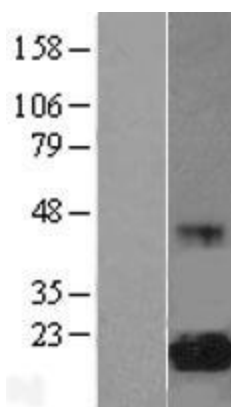
RefSeq ORF: 465 bp

Locus ID: 1984
UniProt ID: [P63241](#)
Cytogenetics: 17p13.1
Domains: eIF-5a, KOW
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. May play an important role in brain development and function, and in skeletal muscle stem cell differentiation. Also described as a cellular cofactor of human T-cell leukemia virus type I (HTLV-1) Rex protein and of human immunodeficiency virus type 1 (HIV-1) Rev protein, essential for mRNA export of retroviral transcripts.[UniProtKB/Swiss-Prot Function]

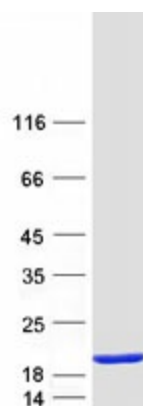
Product images:



Circular map for RC200770



Western blot validation of overexpression lysate (Cat# [LY428327]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC226664] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EIF5A protein (Cat# [TP300770]). The protein was produced from HEK293T cells transfected with EIF5A cDNA clone (Cat# RC200770) using MegaTran 2.0 (Cat# [TT210002]).