

## Product datasheet for **RG200770**

### EIF5A (NM\_001970) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** EIF5A (NM\_001970) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** EIF5A  
**Synonyms:** eIF-4D; EIF-5A; EIF5A1; eIF5AI  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG200770 representing NM\_001970  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGATGACTTGGACTTCGAGACAGGAGATGCAGGGGCTCAGCCACCTTCCCAATGCAGTGCTCAG  
CATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCCGGCCATGTAAGATCGTCGAGATGTCTACTTCGAA  
GACTGGCAAGCACGGCCACGCCAAGGTCCATCTGGTTGGTATTGACATCTTTACTGGGAAGAAATATGAA  
GATATCTGCCGTCAACTCATAATATGGATGTCCCAACATCAAAGGAATGACTTCCAGCTGATTGGCA  
TCCAGGATGGGTACCTATCACTGCTCCAGGACAGCGGGGAGGTACGAGAGGACCTTCGTCTCCCTGAGGG  
AGACCTTGCCAAGGAGATTGAGCAGAAGTACGACTGTGGAGAAGAGATCCTGATCACGGTGTCTGCC  
ATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG200770 representing NM\_001970  
Red=Cloning site Green=Tags(s)

MADDLDFETGDAGASATFPMQCSALRKNFVVLKGRPCKIVEMSTSKTGKHGAKVHLVGIDIFTGKKYE  
DICPSTHNMDVPIKRNDFQLIGIQDGYLSLLQDSGEVREDLRLPEGDLKEIEQKYDCGEEILITVLSA  
MTEEAAVAIAKAMAK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**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.

**RefSeq:** [NM\\_001970.5](#)

**RefSeq Size:** 1290 bp

**RefSeq ORF:** 465 bp

**Locus ID:** 1984

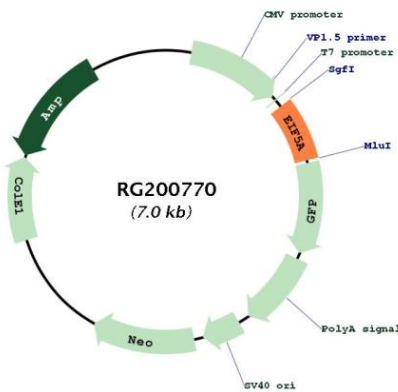
**UniProt ID:** [P63241](#)

**Cytogenetics:** 17p13.1

**Domains:** eIF-5a, KOW

**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 RG200770