OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC206249

EIF5A2 (NM_020390) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF5A2 (NM_020390) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EIF5A2
Synonyms:	EIF-5A2; eIF5AII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206249 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGACGAAATTGATTTCACTACTGGAGATGCCGGGGCTTCCAGCACTTACCCTATGCAGTGCTCGG
CCTTGCGCAAAAACGGCTTCGTGGTGCTCAAAGGACGACCATGCAAAATAGTGGAGATGTCAACTTCCAA
AACTGGAAAGCATGGTCATGCCAAGGTTCACCTTGTTGGAATTGATATTTTCACGGGCAAAAAATATGAA
GATATTTGTCCTTCTACTCACAACATGGATGTTCCAAATATTAAGAGAAATGATTATCAACTGATATGCA
TTCAAGATGGTTACCTTTCCCTGCTGACAGAAACTGGTGAAGTTCGTGAGGATCTTAAACTGCCAGAAGG
TGAACTAGGCAAAGAAATAGAGGGAAAATACAATGCAGGTGAAGATGTACAGGTGTCTGTCATGTGTGCA
ATGAGTGAAGAATATGCTGTAGCCATAAAACCCTGCAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206249 protein sequence
Red=Cloning site Green=Tags(s)

MADEIDFTTGDAGASSTYPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAKVHLVGIDIFTGKKYE
DICPSTHNMDVPNIKRNDYQLICIQDGYLSLLTETGEVREDLKLPEGELGKEIEGKYNAGEDVQVSVMCA
MSEEYAVAIKPCK

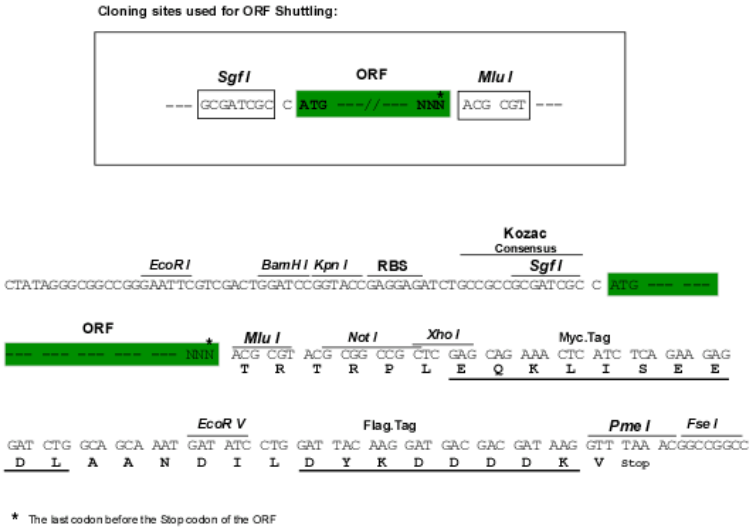
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6322_h11.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020390

ORF Size: 459 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

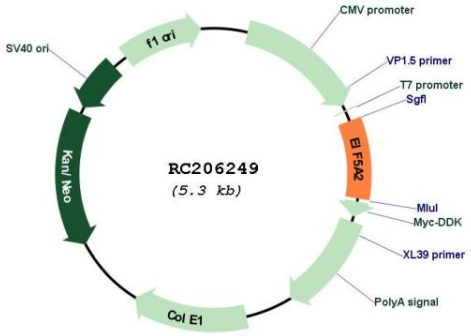
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

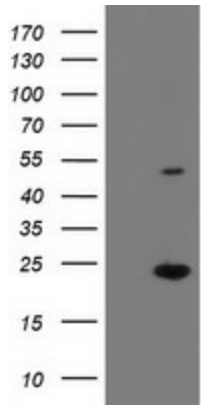
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_020390.6
RefSeq Size:	5537 bp
RefSeq ORF:	462 bp
Locus ID:	56648
UniProt ID:	Q9GZV4
Cytogenetics:	3q26.2
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. 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]

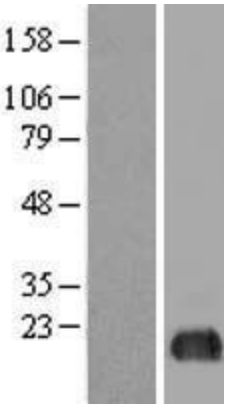
Product images:



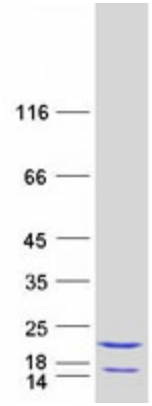
Circular map for RC206249



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY EIF5A2 (Cat# RC206249, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-EIF5A2(Cat# [TA505100]). Positive lysates [LY412495] (100ug) and [LC412495] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY412495]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206249 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EIF5A2 protein (Cat# [TP306249]). The protein was produced from HEK293T cells transfected with EIF5A2 cDNA clone (Cat# RC206249) using MegaTran 2.0 (Cat# [TT210002]).