

Product datasheet for **RC225298**

EIF4E (NM_001130678) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF4E (NM_001130678) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EIF4E
Synonyms:	AUTS19; CBP; eIF-4E; EIF4E1; EIF4EL1; EIF4F
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225298 representing NM_001130678 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGGACCTGACCTCCCGGGACAAGTGGGGACGTCCCGGAGGATGGCCGAGGCGCGGTGTAGCGCAC
ACTTTCTGGAAACCACCCTACTCCTAATCCCCGACTACAGAAGAGGAGAAAACGGAATCTAATCAGGA
GGTTGCTAACCAGAACTATATTAACATCCCCTACAGAACAGATGGGCACTCTGGTTTTTAAAAAT
GATAAAAGCAAACCTGGCAAGCAAACCTGCGGCTGATCTCCAAGTTTGATACTGTTGAAGACTTTTGGG
CTCTGTACAACCATATCCAGTTGTCTAGTAATTTAATGCCTGGCTGTGACTACTCACTTTTAAAGGATGG
TATTGAGCCTATGTGGGAAGATGAGAAAAACAAACGGGGAGGACGATGGCTAATTACATTGAACAAACAG
CAGAGACGAAGTGACCTCGATCGTTTTGGCTAGAGACACTTCTGTGCCTTATTGGAGAATCTTTTGATG
ACTACAGTGATGATGTATGTGGCGCTGTTGTTAATGTTAGAGCTAAAGGTGATAAGATAGCAATATGGAC
TACTGAATGTGAAAACAGAGAAGCTGTTACACATATAGGGAGGGTATACAAGGAAAGTTAGGACTTCT
CCAAAGATAGTGATTGGTTATCAGTCCCACGCAGACACAGCTACTAAGAGCGGCTCCACCACTAAAAATA
GGTTTGTGTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225298 representing NM_001130678
Red=Cloning site Green=Tags(s)

MLDLTSRQVGTSRMAEAACSAHFLETTPTPNPPTTEEEKTESNQEVANPEHYIKHPLQNRWALWFFKN
 DKSKTWQANLRLISKFDTVEDFWALYNHIQLSSNLMPGCDYSLFKDGIEMWEDEKNKRGRWLITLNKQ
 QRRSDLDRFWLETLLCLIGESFDDYSDVCGAVNVRAKGDKIAIWTTECENREAVTHIGRVYKERLGLP
 PKIVIGYQSHADTATKSGSTTKNRFVV

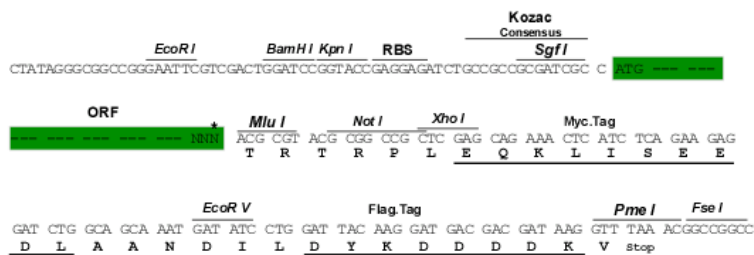
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001130678

ORF Size: 711 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_001130678.3](#)

RefSeq ORF: 714 bp

Locus ID: 1977

UniProt ID: [P06730](#)

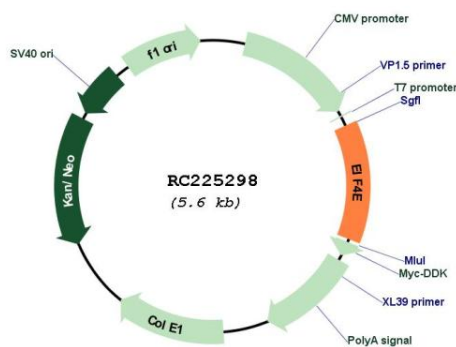
Cytogenetics: 4q23

Protein Pathways: Insulin signaling pathway, mTOR signaling pathway

MW: 27.1 kDa

Gene Summary: The protein encoded by this gene is a component of the eukaryotic translation initiation factor 4F complex, which recognizes the 7-methylguanosine cap structure at the 5' end of messenger RNAs. The encoded protein aids in translation initiation by recruiting ribosomes to the 5'-cap structure. Association of this protein with the 4F complex is the rate-limiting step in translation initiation. This gene acts as a proto-oncogene, and its expression and activation is associated with transformation and tumorigenesis. Several pseudogenes of this gene are found on other chromosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Product images:



Circular map for RC225298