

Product datasheet for **MG216864**

Eif4e2 (NM_023314) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Eif4e2 (NM_023314) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Eif4e2
Synonyms: 2700069E09Rik; AI036339; AV129531; D0H0S6743E; Eif4el3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG216864 representing NM_023314
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACAACAAGTTCGACGCCTTAAAAGATGATGACAGTGGAGACCATGATCAGAATGAAGAAAACAGCA
CACAGAAAGATGGTGAGAAGGAAAAACAGACCGAGACAAGAGCCAGAGCAGTGGCAAGAGGAAGGCTGT
TGTCCCTGGACCAGCAGAGCATCCCTGCAGTACAACCTACACCTTTTGGTACTCGAGGAGAACCCCTGGC
CGTCCCACCAGCTCGCAGAGCTATGAGCAGAACATCAAGCAGATTGGCACCTTTGCCTCTGTGGAGCAGT
TCTGGAAGTTTTACAGCCACATGGTACGTCCTGGGGACCTGACAGGCCACAGTGACTTTTCATCTCTCAA
AGAAGGGATTAACCTATGTGGGAGGATGATGCAAATAAAAAATGGGGGCAAGTGGATCATTTCGACTCCGG
AAGGGCTTAGCTTCCCGCTGCTGGGAGAATCTCATCTCTGGCTATGCTCGGGGAGCAATTCATGGTTGGGG
AGGAGATCTCGGGGCTGTGGTCTCTGTCCGCTTTCAGGAGGACATTATTTCTATATGGAATAAGACTGC
CAGCGACCAAGCAACTACAGCCGAATCCGGGATACTTTCGGCGCGTGCTTAACCTACCTCCCAACACC
ATTATGGAATACAAAACCTCACACCGACAGCATCAAGGACAATTCAAGCTTTCGAAATACAAAATCACAT
TG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG216864 representing NM_023314
Red=Cloning site Green=Tags(s)

MNNKFDALKDDDSGDHDQNEENSTQKDGEKEKTDNRKDSQSSGKRKAVVPGPAEHPLQYNYTFWYSRRTPG
 RPTSSQSYEQNIKQIGTFASVEQFWKFYSHMVRPGDLTGHSDFHLFKEGIKPMWEDDANKNGGKWIIRLR
 KGLASRCWENLILAMLGEQFMVGEEICGAVVSVRFQEDIISIWNKTASDQATTARIRDTLRRVNLPPNT
 IMEYKTHTDSIKDNSSFRNTKITL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_023314

ORF Size: 702 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_023314.3](#), [NP_075803.2](#)

RefSeq Size: 3394 bp

RefSeq ORF: 705 bp

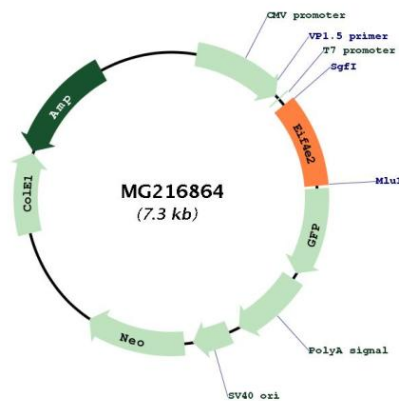
Locus ID: 26987

UniProt ID: [Q8BMB3](#)

Cytogenetics: 1 C5

Gene Summary: Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation (PubMed:15153109). Acts as a repressor of translation initiation (By similarity). In contrast to EIF4E, it is unable to bind eIF4G (EIF4G1, EIF4G2 or EIF4G3), suggesting that it acts by competing with EIF4E and block assembly of eIF4F at the cap (PubMed:15153109). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216864