

## Product datasheet for **MG216876**

### Eif4e2 (NM\_001039170) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Eif4e2 (NM\_001039170) 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:** >MG216876 representing NM\_001039170  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAACAACAAGTTCGACGCCTTAAAAGATGATGACAGTGGAGACCATGATCAGAATGAAGAAAACAGCA  
 CACAGAAAGATGGTGAGAAGGAAAAACAGACCGAGACAAGAGCCAGAGCAGTGGCAAGAGGAAGGCTGT  
 TGTCCCTGGACCAGCAGAGCATCCCTGCAGTACAACCTACACCTTTTGGTACTCGAGGAGAACCCCTGGC  
 CGTCCCACCAGCTCGCAGAGCTATGAGCAGAACATCAAGCAGATTGGCACCTTTGCCTCTGTGGAGCAGT  
 TCTGGAAGTTTTACAGCCACATGGTACGTCCTGGGGACCTGACAGGCCACAGTGACTTTTCATCTCTCAA  
 AGAAGGGATTAACCTATGTGGGAGGATGATGCAAATAAAAATGGGGGCAAGTGGATCATTTCGACTCCGG  
 AAGGGCTTAGCTTCCCGCTGCTGGGAGAATCTCATCTGGCTATGCTCGGGGAGCAATTCATGGTTGGGG  
 AGGAGATCTCGGGGCTGTGGTCTCTGTCCGCTTTCAGGAGGACATTATTTCTATATGGAATAAGACTGC  
 CAGCGACCAAGCAACTACAGCCCGAATCCGGGATACTTTCGGCGAGTGCTTAACCTACCTCCCAACACC  
 ATTATGGAATACAAAACCTCACACCGACAGCATCAAATGCCAGGCAGGCTGGGCCCCAAAGGCTCCTTT  
 TTCAAAACCTCTGGAAGCCGCGATTGAATGTGCCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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Protein Sequence: >MG216876 representing NM\_001039170  
 Red=Cloning site Green=Tags(s)

MNNKFDALKDDDSGDHDQNEENSTQKDGEKEKTDTRDKSQSSGKRKAVVPGPAEHPLQYNYTFWYSRRTPG  
 RPTSSQSYEQNIKQIGTFASVEQFWKFYSHMVRPGDLTGHSDFHLFKEGIKPMWEDDANKNGGKWIIRLR  
 KGLASRCWENLILAMLGEQFMVGEEICGAVVSVRFQEDIISIWNKTASDQATTARIRDTLRRVNLNLPNT  
 IMEYKTHTDSIKMPGRLGPQRLLFQNLWKPRLNVP

TRTRPLE - GFP Tag - V

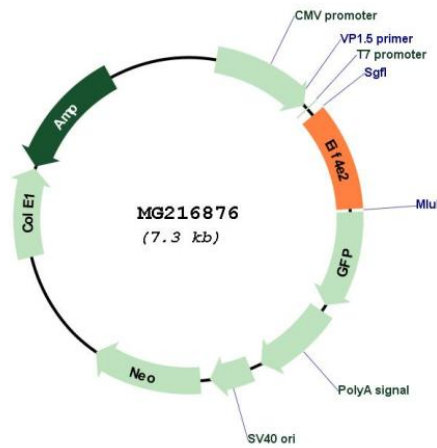
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_001039170

ORF Size: 735 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001039170.1</a> , <a href="#">NP_001034259.1</a>
<b>RefSeq Size:</b>	1809 bp
<b>RefSeq ORF:</b>	738 bp
<b>Locus ID:</b>	26987
<b>UniProt ID:</b>	<a href="#">Q8BMB3</a>
<b>Cytogenetics:</b>	1 C5
<b>Gene Summary:</b>	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]