

## Product datasheet for **MC209761**

### Eif4e2 (NM\_001039169) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4e2 (NM_001039169) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eif4e2
Synonyms:	2700069E09Rik; AI036339; AV129531; D0H0S6743E; Eif4el3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209761 representing NM_001039169 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCTTAAAGATGATGACAGTGGAGACCATGATCAGAATGAAGAAAACAGCACAGAAAGATGGTG  
AGAAGGAAAAACAGACCGAGACAAGAGCCAGAGCAGTGGCAAGAGGAAGGCTGTTGTCCCTGGACCAGC  
AGAGCATCCCCTGCAGTACAACACACCTTTTGGTACTCGAGGAGAACCCTGGCCGTCCCACCAGCTCG  
CAGAGCTATGAGCAGAACATCAAGCAGATTGGCACCTTTGCCTCTGTGGAGCAGTTCTGGAAGTTTTACA  
GCCACATGGTACGTCCTGGGACCTGACAGGCCACAGTGACTTTCATCTCTTCAAAGAAGGGATTAAACC  
TATGTGGGAGGATGATGCAAATAAAATGGGGCAAGTGGATCATTTCGACTCCGGAAGGGCTTAGCTTCC  
CGCTGCTGGGAGAATCTCATCTGGCTATGCTCGGGGAGCAATTCATGGTTGGGAGGAGATCTCGGGG  
CTGTGGTCTCTGTCCGCTTTCAGGAGGACATTATTTCTATATGGAATAAGACTGCCAGCGACCAAGCAAC  
TACAGCCCGAATCCGGGATACTTTCGGCGCGTGCTTAACCTACCTCCCAACACCATTATGGAATACAAA  
ACTCACACCGACAGCATCAAAATGCCAGGCAGGCTGGGCCCCCAAGGCTCCTTTTTCAAACCTCTGGA  
AGCCGCGATTGAATGTGCCA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001039169
Insert Size:	723 bp



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<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_001039169.1</a> , <a href="#">NP_001034258.1</a>
<b>RefSeq Size:</b>	2260 bp
<b>RefSeq ORF:</b>	723 bp
<b>Locus ID:</b>	26987
<b>Cytogenetics:</b>	1 C5
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate splice junction at the 3' end of the first exon compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1.</p>