

## Product datasheet for **MG203331**

### Eif4e2 (BC049077) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4e2 (BC049077) 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:	>MG203331 representing BC049077 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACAACAAGTTCGACGCCTTAAAAGATGATGACAGTGGAGACCATGATCAGAATGAAGAAAACAGCA  
CACAGAAAGATGGTGAGAAGGAAAAACAGACCGAGACAAGAGCCAGAGCAGTGGCAAGAGGAAGGCTGT  
TGTCCCTGGACCAGCAGAGCATCCCTGCAGTACAACCTACACCTTTTGGTACTCGAGGAGAACCCCTGGC  
CGTCCCACCAGCTCGCAGAGCTATGAGCAGAACATCAAGCAGATTGGCACCTTTGCCTCTGTGGAGCAGT  
TCTGGAAGTTTTACAGCCACATGGTACGTCCTGGGGACCTGACAGGCCACAGTGACTTTTCATCTCTCAA  
AGAAGGGATTAACCTATGTGGGAGGATGATGCAAATAAAAAATGGGGCAAGTGGATCATTTCGACTCCGG  
AAGGGCTTAGCTTCCCGCTGCTGGGAGAATCTCATCTGGCTATGCTCGGGGAGCAATTCATGGTTGGGG  
AGGAGATCTCGGGGCTGTGGTCTCTGTCCGCTTTCAGGAGGACATTATTTCTATATGGAATAAGACTGC  
CAGCGACCAAGCAACTACAGCCCGAATCCGGGATACTTTCGGCGCGTGCTTAACCTACCTCCCAACACC  
ATTATGGAATACAAAACCTACACCGACAGCATTGCACCTCAGGGAACCATGAGTTCCAACTATGTCTCA  
TGGTTAACCCCTTAAAGGTCACCAGACCTCATGCTTCTACGTTCCCGCTTGGCTCCGTGCACCAACAGAT  
C

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203331 representing BC049077  
 Red=Cloning site Green=Tags(s)

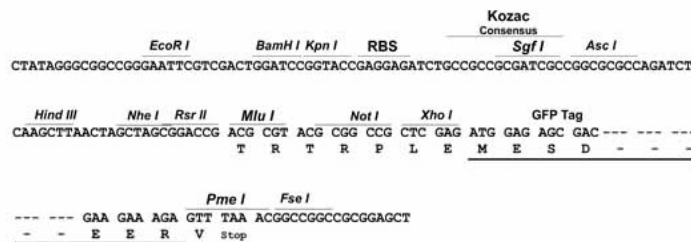
MNNKFDALKDDDSGDHDQNEENSTQKDGEKEKTDTRDKSQSSGKRKAVVPGPAEHPLQYNYTFWYSRRTPG  
 RPTSSQSYEQNIKQIGTFASVEQFWKFYSHMVRPGDLTGHSDFHLFKEGIKPMWEDDANKNGGKWIIRLR  
 KGLASRCWENLILAMLGEQFMVGEIECGAVVSVRFQEDIISIWNKTASDQATTARIRDTLRRVNLNLPNT  
 IMEYKHTDSDIAPQGTMSKLCMLMVNPLKVTRPHASTFPLGSVHQIQI

TRTRPLE - GFP Tag - V

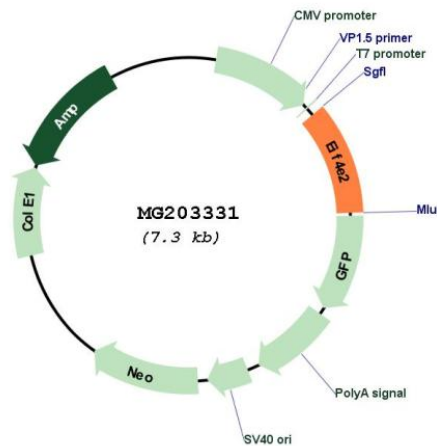
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** BC049077

**ORF Size:** 773 bp

<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>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">BC049077</a>, <a href="#">AAH49077</a></p>
<b>RefSeq Size:</b>	<p>2855 bp</p>
<b>RefSeq ORF:</b>	<p>773 bp</p>
<b>Locus ID:</b>	<p>26987</p>
<b>Cytogenetics:</b>	<p>1 C5</p>
<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>