

## Product datasheet for MC229631

### Eif4g3 (NM\_001256195) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4g3 (NM_001256195) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eif4g3
Synonyms:	1500002J22Rik; 4930523M17Rik; eIF4GII; G1-419-52; repro8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC229631 representing NM_001256195 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACACACAACCTCAGGCCGGTCTCCGGGAGGATTCAGACCCATCCAGTTTTCCAGAGGCCTCAAA  
TCCAGCCTCCCCGAGCTGCCATCCCAAACAGCAGTCTCCATCCGTCCCGGTGTGCAGACCCCCACCGC  
CGTGTATCAGGCCAACAGCACATCATGATGGTTAACCATCTGCCATGCCGTACCCCGTGACCCAGGGG  
CATCAGTACTGCATACCACAGTACCGCCACAGCGGCCCTCCGTACGTGGGGCCCCACAGCAGTATCCAG  
TTCAGCCGCCTGGGCCGGGCCCTTTTTATCCTGGACCAGGACCTGGGGACTTCGCTAATGCTTATGGAAC  
GCCTTTTTACCCAAGTCAGCCAGTGTATCAGTCAGCACCTATCATAGTGCCTACGCAGCAGCAGCCCCCT  
CCAGCCAAGAGAGAGAAAAAATAAAGAATTCGAGATCCAAATCAGGGAGGTAAGACATAAACAGAGG  
AGATTATGTCTGGAGGTGGCAGCAGAAATCCCCTCCACCTATAGGAAGACCCGCATCCACTCCCCTCC  
TCCTCAGCAGCTGCCAGCCAGGTCCCTGAGCACAGCCCTGTGGTATATGGGACTGTGGAGAGCGCTCAT  
CTTGCTGCCAGCACCCCTGTCACTGCAGCTAGCGACCAGAAGCAAGAAGAAAAGCCAAAACCAGATCCAG  
TGTTCCAGTCTCCTTCGACGGTCTTAGGCTCGTACTCAGTGGGGAGAAGAAAGCAAGCAGGCCAGAT  
GCCTGAGACTGCTGCAGGAGAGCCACCCAGAGCCTCCTCGGACTTCATCACCACCCAGCCTTCTCTCCA  
CTTGCCCGGAGTTCACCTCCTTCCCCCATGTCCGCTGCCCTTAGCAGCCAGCCACTGTTCACTGTGAG  
ACAAGTGTGAACCTCCTTCCCTCAAAGAAGAAGATGCACCTCCTGTCCCCAGCCCCAGCTTTCACAGC  
AGCCTCAGGCCCTTCACTAACAGATAACAGTGATATATGCAAGAAACCCTGTAGCGTAGCCCTCATGAT  
AGTCAGCTAATTTCTAGTACTATCCTAATTAATGAAATGAATGGAGTTGGAGAAAAATTATCAGCCAAGG  
AGAACTGTGGCATGCTGAGACAGGAAGTGTGCCATTGACTCTCGAGTTAGAGATTCTGGAACATCC  
ACAGGAAGAATTGAAAGTGAATGTACGCCGACTCCCATTTGCCCGTCCATGCTGCCTGCCTTCTCCCCA  
GCTCCTCCGACTCCCCCACTTCTCCTCTGTCTCCGTTGTCTCTCTGCCCCATTGCTCGTTCTC  
CCGCTGTTGCCACTGAGGTCCAGAGAGTCGCCGACGAGGGAGAAAGCCTGAGAATTGCCTTAGCAAGGA  
TGCAAAGGAGATGCAGGACAAAGCAGAGTCAGAATCAGATGGGCAAGCAGAAGAGACTGCGGATCCCCAG



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AGCCTACATTCAGGAAGGAGCCCCGCCCCAGTGCAAACAGCTACCACTGCGCCAAAGTCCTGGAAGAAAA  
 CAAAAGAGCAGACCCGAACCCAGATGAAGTGTTAGAAGCAGAGGCAGAGCCATAAGCCGAAGAAGAGCT  
 TGCAGTTGACAGTGTCTTGAGCCTGAGCAAGAGAAGATGAGCCAAGGGTTTCCGTCTGAGAGAGACCCC  
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 CTTCCCCTTTAAGCAGAGTCTTGAAGCCTGCAGATACAGAAGGCAAGAAGCAGTATACCCGGGAGTTC  
 CTTACTGGACATCCAGTTTATGCCCGCTGTATCCAAAAACCAGAAGGCCCTGCCTCCCATCAGCGACGTGG  
 TCCTTGACAAGATCAACCAGCCAGATTGTCAATGCGGACCCTGGATCCTCGCATTTCCTCGAGGACC  
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 AAGATGTGCACCTGAGAAAGCGGAGAATGCCTGGAAGCCGAGCCAGAAACGGGACAGCCACGCCGATGA  
 CCCCAGAAAGCATTAAACTCAGGAACTTTTAGAAAAGTTCGAAGTATCTTGAATAAACTGACACCACAG  
 ATGTTCAACCAGCTGATGAAGCAAGTGTGCGCTTACGGTGGACACGGAGGAGCGGCTAAAAGGGGTCA  
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 TGAAGCTGCCAGCGCTCCAGAGGAGAGGACAAGGCTTACGACGAACTGGAAGAAGCAGGACAAAGC  
 CCGGCGGAGATCCATCGGCAACATCAAGTTCATTGGAGAACTCTTTAAACTGAAAATGCTGACGGAGGCC  
 ATCATGCATGACTGTGTGGTGAAGCTCCTGAAGAACCACGATGAAGAGTCCCTGGAGTGCCTGTGTGCGC  
 TGCTCACCACCATCGGCAAAGACCTGGACTTTGAGAAAGCAAAGCCACGCATGGACCAGTACTTTAACCA  
 GATGGAGAAAAATCGTCAAAGAAAGAAAACTTCTCCAGAATTCGGTTCATGCTTCAGGATGTAATCGAC  
 CTCAGACTGTGTAATTGGGTGTCCCGAAGAGCAGATCAGGGGCCAAAAACTATCGAGCAGATTACAAAAG  
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 AGGCGTCCAAAGAGTGGATGAAGGTGGATGGAATACTGTACAAGGGGCCAAGAACAGTCTGTACTGGAC  
 CCTCCAAATTTTTGAAAATTAATAACCACCATTGATGAGAAGATTACGCTGGTTCCTAAGGCACAGC  
 TGGGCAGCTGGGGCAAAGGCAGCAGCGGGGAGCAAAGGCAAGTGAAGTCCGCACCTTCAGGGTCCCCGTC  
 GGCCACACCTTAGAGTTTGATTCCCGAAGGGCGTTAACCCAGTCTGGGAGCATGGGCAGGGAGAAGAGC  
 GACAAGCCAATTCAGCTGGAACAGCCCGTCCCAACACGTTTCTGAGGGGCAGCAGCAAAGACCTGCTGG  
 ACAACCAGTCCCAGGAAGAGCAGCGCAGAGAGATGTTGGAGACCGTGAACAGCTGACAGGAGGCCCTGGA  
 TGCTGAGCGGGCCAGCACTGAGGCGGACCGAAGCAAACGAGGGAGCTAGCAAAATCGGAAATGTGTGCA  
 GTGCCAGCCCCTGACAAGCCTGCACTGTGAGAAGAGGAAGTGGAGAGGAAGTCCAAGTCTATCATTGACG  
 AATTCTTACACATCAATGACTTTAAGGAGGCCACGCAGTGCATAGAGGAGCTGAGCGCCAGGGCCCACT  
 GCATGTGTTCTGTAAGGTGGGTGTGGAGTTCACCTGGAACGGAGCCAGATCACCAGGGACCACATGGGC  
 CACTTACTGTATCAGCTGGTGCAGTCAGAAAAACTCAGCAAGCAGGACTTTTTCAAAGGTTTTTCTGAAA  
 CCTTGGAGTTGGCAGATGACATGGCCATTGATATCCCATATTTGGTTGTACCTGGCTGAACTGGTCCAC  
 CCCCATGTTAAAAGGAGGGGGGATTTCCATGAGAGAACTATTGTGGAATTCAGCAAGCCATTACTTCTT  
 GTTGGCAGAGCTGGGGTCTGCTTTCTGAAATCCTACACCTTCTATGCAGACAAATGAGCCATAAGAAAG  
 TAGGCGCCCTGTGGAGGGAGGCTGACCTCAGCTGGAAGGACTTTTTACCGGAAGGGGAAGATGTCCATCA  
 TTTTCTCTTGGAGCAGAAGTTGGACTTACGGAATCCGAAGGGCCCTGCTCCTCTGAGGCACTGTCAAAG  
 AAGGAGCTGTCTGCCGAGGAGCTGTCTCAGCGCCTGGAAGGCTCATCATGGAGGAGAAAGCGGATGACG  
 AGCGGATCTTTGACTGGGTGGAGGCTAATCTCGACGAAAGCCAGATGAGTTCGCCTACATTCCTTAGAGC  
 TTTAATGACAGCCGTTTGCAAAGCAGCTATCATAGCTGACTGTTCTACCTTCAGAGTGGACACTGCTGTG  
 ATCAAGCAGAGAGTGCCGATCTTACTCAAGTACCTAGACTCAGACACGGAGAAGGAACTACAAGCACTTT  
 ATGCACTACAAGCATCCATAGTAAAATGACCAACCTGCCAAGTGTCTCCGGATGTTTTTTGATTGCCCT  
 GTATGACGAGGAGGTGATATCAGAGGATGCCTTCTACAAATGGGAGAGCAGCAAGGACCCCGCTGAGCAA  
 GCTGGGAAGGGCGTGGCCCTCAAGTCTGTACGGCCTTTTTCACGTGGCTTCGAGAAGCAGAAGAGGAGT  
 CCGAGGATAACTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

<b>ACCN:</b>	NM_001256195
<b>Insert Size:</b>	4704 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u>NM_001256195.1, NP_001243124.1</u>
<b>RefSeq Size:</b>	6241 bp
<b>RefSeq ORF:</b>	4704 bp
<b>Locus ID:</b>	230861
<b>Cytogenetics:</b>	4 D3
<b>Gene Summary:</b>	<p>Probable component of the protein complex eIF4F, which is involved in the recognition of the mRNA cap, ATP-dependent unwinding of 5'-terminal secondary structure and recruitment of mRNA to the ribosome. Thought to be a functional homolog of EIF4G1 (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) contains an alternate exon in the 5' UTR and lacks an alternate, in-frame, exon in the 5' coding region, compared to variant 1. The resulting protein (isoform 2) is shorter when it is compared to isoform 1.</p>