

## Product datasheet for **MC224732**

### Eif4g1 (NM\_145941) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Eif4g1 (NM\_145941) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Eif4g1  
**Synonyms:** E030015G23Rik; eIF-4-gamma 1; eIF-4G 1; eIF-4G1; eIF4G1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224732 representing NM\_145941  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAACAAAGCTCCCCAGCCACAGGCCCCACCCGCCAGGTCCCCTGGACTCCCACAGCCAGCGTTTC  
CCCCGGGGCAGACTGCACCGGTGGTGTAGCACGCCTCAAGCGACACAAATGAACACGCCTTCTCAGCC  
CGCCAGGGAGGATTAGGTCTCTGCAGCACTTCTACCCTAGCCGGGCCAGCCCCCTAGCAGTGCAGCC  
TCCCGAGTGCAGAGTGCAGCCCTGCCCCGTCCTGGCCAGCTCCCCATGTCTACCCTGCTGGATCCCAAG  
TAATGATGATCCCTTCCAGATCTCTACTCAGCCTCCCAAGGAGCCTACTATATCCCTGGACAGGGGCG  
TTCCACATATGTTGTCCCAACACAGCAGTACCCTGTGCAGCCAGGAGCCCCAGGCTTCTATCCAGGTGCA  
AGCCCTACCGAGTTTGGGACCTATGCTGGAGCCTATTACCCAGCCCAAGGTGTGCAGCAGTTTCTGCTA  
GTGTGGCTCCTGCCCCAGTTTTGATGAACCAGCCACCCAGATTGCTCCTAAGAGGGAACGGAAACTAT  
CCGAATTCGAGACCCAAACCAAGGAGGGAAGGATATCACAGAAGAGATCATGTCTGGGGCCCGCACTGCC  
TCCACACCCACTCCTCCCAGACGGGAGGCAGTGGAGCCTCAACCCAATGGGGAGTGCCTCAGGTTG  
CTGTATTATCCGGCCAGATGACCGGTGCAGGGAGCAGCCATTGGGGGGCGGCCAGACTGCCTGGCCC  
AGAGCATAGCCCTGGCACAGAATCTCAGCCTTCGTGCTCTTCTCAACCCATCACACCCCAATTTTG  
GAGCCGGGTCTGAGTCTAATCTTGAGTCTCTCTATTCTGGGACACTATGACAACAGGGATGATAC  
CAATGTCTGTAGAAGAATCGACCCCTATCTCTTGTGAACTGGGAGCCGATTGGCTCTCTCCAGAACC  
CACTCTTGCCGAACCCATACTGGAAGTAGAAGTGACACTCAGCAAACCCATTCCAGAATCTGAGTTCTCT  
TCCAGTCTCTCCAGTTTCCACGGCCCTGGTGCCTCACAAGGTTGAACTCATGAGCCCAATGGCGTGA  
TCCCATCTGAGGATCTGGAACAGAGGTGGAGTCAAGCACAGAGCCAGCTCCTCCCCCTCTACACCTG  
TGCTTCTGAATCGCTCGTGCCTATTGCTCCAAGTGCAGCCAGCTGAGGAAGTCTCAACGGAGCCCCCTCA  
CCACCAGCTGTGGATTTAAGCCAGTCACTGAGCCAGAGGAACAGCCAAAGAAGTTTCATCAGCAGCAC  
TGCCAGCATTCTCTCTCTGCTCCACCTGTGGCTCCTTCTCAGATACTTCTCTGCTCAGGAGGAAGAAAT  
GGAAGAAGATGACGATGACGAAGAAGGTGGAGAAGCTGAGAGTGAGAAGGGAGGAGGACGCTCCCCCT  
GACAGTACTCTGTCCCAGCCAGCTGTCTCAGAAATTTAGAGGTGGCAGCAGCTACCCAGGTGGCAGTGT



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CTGTGCCAAAGAGGAGACGGAAAATTAAGAGCTAAATAAGAAGGAGGCTGTAGGAGACCTCTAGATGC  
 CTTCAAGGAGGTGGACCCAGCAGTACCAGAGGTAGAGAATCAGCCTCCCCTGGCAGCAACCCAAGCCCA  
 GAGTCTGAGGGCAGCATGGTGCCACACAGCCTGAGGAAACAGAAACCTGGGACTCTAAGGAAGACA  
 AAATTCATAATGCTGAGAACATCCAGCCTGGGGAGCAGAAGTATGAGTACAAGTCAGATCAGTGGAAAGCC  
 TCTAAACCTTGAAGAAAAGAAGCGTTATGACAGAGAATCCTGCTGGGCTTTCAGTTCATCTTTGCCAGC  
 ATGCAGAAGCCAGAAGGATTGCCCATATCACTGATGTGGTCTGGACAAGGCCAATAAAACACCACTTC  
 GGCAACTGGATCCCTCCAGACTACCTGGCATAAACTGTGGCCAGATTTCACTCCATCTTTTGCCAACTC  
 TGGCCGACCAGCCCTCAGCAACCGTGGGCCCCGAGGGGTGGGCCAGGTGGGGAGCTGCCCGAGGGCCG  
 GCTGGCCTGGGACCCAGGCGCTCTCAGCAGGGCCACGAAAGGAAACTCGCAAGATCATTTCCTCAGTGA  
 TAATGACTGAAGACATAAACTAAATAAAGCAGAGAAGGCTTGGAAACCCAGTAGCAAACGGACAGCAGC  
 TGATAAGGATCGAGGGGAAGAGGATGCTGATGGAAGCAAGACCCAGGACCTGTTCCGAGGGTACGCTCC  
 ATCCTGAATAAGCTGACACCCAGATGTTTCAGCAGCTGATGAAGCAGGTGACACAGCTGGCCATTGACA  
 CGGAGGAACGCCCTCAAAGGAGTTATTGACCTCATCTTTGAGAAAGCCATTTAGAGCCCACTTCTCTGT  
 GGCTTATGCCAACATGTCCGCTGCCTCATGGCGTGAAAGTGCCCACTACAGAAAAGCCAAACGTAAC  
 GTGAATTTTCGAAAACCTGTTGTTAAATCGTGGCAGAAGGAATTTGAGAAAGACAAGATGATGATGAAG  
 TTTTTGAAAAAAGCAAAAAGAGATGGATGAAGCTGCTACGGCAGAAGAACGGGGACGCCTGAAAGAAGA  
 GCTAGAAGAAGCCCGGCATAGCTAGGCGGCGCTCTTAGGGAATATCAAGTTTATTGGAGAGTTATTC  
 AAGTTGAAGATGTTAACAGAAGCAATAATGCATGACTGTGTGGTCAAGCTACTTAAGAACCATGATGAGG  
 AGTCCCTGGAAATGCCTCTGCCGCTCCTCACCCTATAGGCAAGACCTGGACTTTGCAAAAAGCCAAAGCC  
 TCGAATGGATCAGATTTCAACCAATGGAAAAATCATTAAAGAAAAGAAGACCTCATCTCGCATCCGT  
 TTTATGCTGCAGGATGACTCGATCTGCCGAGAGTAATTGGGTGCCACGCCGAGGGGATCAGGGTCCCTA  
 AGACTATTGATCAAATTCACAAGGAGGCTGAGATGGAAGAGCACCGAGAACATATTAAGTACAGCAGCT  
 CATGGCCAAAGGCAGCGACAAACGTGGGGTGGCCCTCCAGGCCGCTATCAACCGTGGCTTCCACTT  
 GTAGATGATGGTGGCTGGAATACAGTCCCATTAAGCAAAGGCAGTGCCTTATGACACCTCAGCGCTCA  
 CCAAGATCACAAGCCTGGTTCATTGATTCTAACAACAGCTTTTTGCACTGGAGGACGACTGAGTTG  
 GGGCAAGGGCAGCAGTGGGGCTCAGGAGCCAAGCCCTCAGACACAGCATCGGAAGCTACTCGTCCAGCT  
 ACCTTGAATCGTTTTCTGCTTCAACAACATTACCCGAGAGAACACAGATAACAGACGTGTTGTAC  
 AGAGGAGTAGCTTGAAGCCGGAACGAGGTGAGAAAGCTGGGGACCGGGGAGACCGACTAGAGCGGAGTGA  
 GCGGGGAGGTGACCGTGGGGACCGACTTGTGATCGTGCCAGAACACCTGCCACCAAGCGAAGTTTTAGCAA  
 GAAGTGGAGGAGCAAGTAGAGAGCGGCCATCCAGCCTGAGGGACTCCGCAAGGCAGCTAGCCTCACAG  
 AGGATCGTGGTGGGATCCTGTGAAGCGGGAAGCCACTTACCTCCAGTGAGCCCTCAAAGGCTGCGCT  
 GTCTGTGGATGAGGTGGAGAAGAAATCTAAGGCCATATTGAGGAATATCTCCATCTCAATGACATGAAG  
 GAGGCAGTACAGTGTGTCCAGGAGCTGGCTTACCCTCCTTGCTTTCATCTTCTGACGGCTTGGTATCG  
 AGTCCACGCTGGAGCGTAGTACCATTGCTCGTGAGCATATGGGGCGACTACTGCACCAACTGCTCTGTGC  
 GGGCACCTCTCTACTGCCAGTACTATCAAGGCTGTATGAAACACTAGAATTGGCTGAGGACATGGAA  
 ATTGATATCCCTCATGTATGGCTTACCTGGCAGAAGTATTACACCTATTCTCCAGGAAGATGGGTGC  
 CCATGGGAGAGCTCTTACAGGAAATACGAAGCCTCTGAGACCCATGGGCAAAGCTACTTCTTTATTGCT  
 GGAGATCCTGGTCTCTTATGCAAGAGCATGGGTCCAAAAAGGTGGGGATGCTGTGGCGAGAGGCTGGG  
 CTGAGCTGGAGGGAATTTCTAGCAGAGGGCCAAGACGTTGGCTCATTGTGGCTGAAAAGAAGTGGAAAT  
 ATACCTTGGGAGAAGAATCTGAAGCTCCTGGCCAGAGGACACTTGCTTTGAGGAGCTTCGTAGGCAGCT  
 AGAGAAGCTGCTGAAGGACGGCGCAGTAATCAGCGTGTGTTGACTGGATAGACGCCAACCTAAATGAG  
 CAGCAGATAGCATCCAATACATTAGTTCGAGCCCTCATGACAAGTGTCTGTTATTCTGCAATTATCTTTG  
 AGACTCTCTCCGAGTGGATGTTCAAGTGTGAAAGTGCAGCAAGACTGCTGCAGAAAACCTGTGTGA  
 TGAGCAGAAGGAGCTACAAGCACTCTATGCTCTCAGGCCCTTGTAGTGACCTTAGAACAGCCTGCCAAC  
 CTGCTTCGGATGTTCTTTGATGCTCTATGATGAGGACGTGGTGAAGGAAGACGCCTTCTACAGCTGGG  
 AGAGCAGCAAGGATCCTGCTGAACAGCAGGGCAAGGGTGTGGCCCTAAATCTGTACAGCATTCTCAA  
 TTGGCTTCGTGAGGCTGAGGACGAGGAGTCTGATCACAAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

<b>ACCN:</b>	NM_145941
<b>Insert Size:</b>	4803 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>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_145941.3</a> , <a href="#">NP_666053.2</a>
<b>RefSeq Size:</b>	5469 bp
<b>RefSeq ORF:</b>	4803 bp
<b>Locus ID:</b>	208643
<b>UniProt ID:</b>	<a href="#">Q6NZJ6</a>
<b>Cytogenetics:</b>	16 B1
<b>Gene Summary:</b>	<p>This gene encodes a member of the eukaryotic translation initiation factors (eIF) that play important roles in translation initiation by mediating recruitment of additional initiation factors and providing a scaffold for ribosome/mRNA-bridging. Along with eIF4A and eIF4E, the encoded protein forms the eIF4F complex that bridges the 5' UTR with the polyadenylated 3' UTR resulting in mRNA circularization, enhanced translation initiation and mRNA stability. Through its association with eIF3, the encoded protein mediates recruitment of the 43S pre-initiation complex to mRNA. Alternative splicing of this gene results in multiple transcript variants. Pseudogenes for this gene have been identified on chromosomes 2 and 13. [provided by RefSeq, Jan 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).</p>