

Product datasheet for MC229598

Eif4g3 (NM_001256198) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Eif4g3 (NM_001256198) Mouse Untagged Clone
Tag: Tag Free
Symbol: Eif4g3
Synonyms: 1500002J22Rik; 4930523M17Rik; eIF4GII; G1-419-52; repro8
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229598 representing NM_001256198
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACTCACACCTCAGGCCGGTCTCCGGGAGGATTCAGACCCATCCAGTTTTCCAGAGGCCTCAA
 TCCAGCCTCCCGAGCTGCCATCCAAACAGCAGTCCTTCCATCCGTCGGGTGTCAGACCCCCACCGC
 CGTGTATCAGGCCAACAGCACATCATGATGGTTAACCATCTGCCATGCCGTACCCCGTGACCCAGGGG
 CATCAGTACTGCATACCACAGTACCGCCACAGCGCCCTCCGTACGTGGGGCCCCACAGCAGTATCCAG
 TTCAGCCGCTGGGCCGGGGCCTTTTTATCCTGGACCAGGACCTGGGGACTTCGCTAATGCTTATGGAAC
 GCCTTTTTACCCAAGTCAGCCAGTGTATCAGTCAGCACCTATCATAGTGCCTACGCAGCAGCAGCCCCCT
 CCAGCCAAGAGAGAGAAAAAATAAAGAATTCGAGATCCAAATCAGGGAGGTAAGACATAACAGAGG
 AGATTATGTCGGAGGTGGCAGCAGAAATCCCACTCCACCTATAGGAAGACCCGCATCCACTCCCCTCC
 TCCTCAGCAGTGCAGCCAGGTCCCTGAGCACAGCCCTGTGGTATATGGGACTGTGGAGAGCGCTCAT
 CTTGCTGCCAGCACCCCTGTCACTGCAGTAGCGACCAGAAGCAAGAAGAAAAGCCAAAACAGATCCAG
 TGTCCAGTCTCCTTCGACGGTCCTTAGGCTCGTACTCAGTGGGAGAAGAAAGCAAGCAGCCAGT
 GCCTGAGACTGCTGCAGGAGAGCCACCCAGAGCCTCCTCGGACTTCATCACCCACAGCCTTCCTCCA
 CTTGCCCGGAGTTCACTTCCTTCCCCATGTCCGCTGCCCTTAGCAGCCAGCCACTGTTCAGTCTGAGG
 ACAAGTGTGAACCTCCTTCCCAAAGAAGATGCACCTCCTGTCCCAGCCCCACGTCTTGACAGC
 AGCCTCAGGCCCTTCACTAACAGATAACAGTGATATATGCAAGAAACCCTGTAGCGTAGCGCCTCATGAT
 AGTCAGCTAATTTCTAGTACTATCCTAATTAATGAAATGAATGGAGTTGGAGAAAAATTATCAGCCAAGG
 AGAACACTGTGGGCATGCTGAGACAGGAAGTGTGCCATTGACTCTCGAGTTAGAGATTCTGGAACATCC
 ACAGGAAGAATTGAAAGTGAATGTACGCCGACTCCCATGCCCCGTCCATGCTGCCTGCCTTCTCCCCA
 GCTCCTCCGACTCCCCCACTTCTCCTCTGTCTCCGTTGTCTCTCTGCCGCCATTGCTCGTTCTC
 CGCTGTTGCCACTGAGGTCCAGAGAGTCCGCCAGGAGGAGAAAGCCTGAGAAGTTGCCTTAGCAAGGA
 TGCAAAGGAGATGCAGGACAAAGCAGAGTCAGAATCAGATGGGCAAGCAGAAGAGACTGCGGATCCCCAG
 AGCCTACATTCAGGAAGGAGCCCCGCCAGTGCAAACAGCTACCACTGCGCCAAAGTCTGGAAGAAAA



[View online >](#)

CAAAAGAGCAGACCCGAACCCAGATGAAGTGTAGAAGCAGAGGCAGAGCCTAAAGCCGAAGAAGAGCT
 TGCAGTTGACAGTGTCTTGAGCCTGAGCAAGAGAAGATGAGCCAAGGGTTTCCGTCTGAGAGAGACCC
 TCTGCCCTGAAGAGAGGGAAAGCTGAGGAAGGAAACGGAGAAGAGGCTGAGCCTGTGCGAAATGGCGCTG
 AGAGTGCTTCTGAGGGGGAAGGGGAGATGGCAACTCAGGCTCTGCTGACAGCTCTGCTGATGGGCTCAC
 CTTCCCGTTTAAAGCAGAGTCTTGAAGCCTGCAGATACAGAAGGCAAGAAGCAGTATGACCCGGAGTTC
 CTACTGGACATCCAGTTTATGCCCGCTGTATCCAAAAACCAGAAGGCCCTGCCTCCCATCAGCGACGTGG
 TCCTTGACAAGATCAACCAGCCAGATTGTCAATGCGGACCCTGGATCCTCGCATTTTGCCTCGAGGAG
 TGACTTACCCAGCCTTTCAGACTTTCCAAGGCAAACGCCTGGTGGAAGAGGTGTGCCTCTGTTGAAT
 GTTGGACCTCGGAGTCTCAACCTGGCCAGAGAAGGGAGCCAGAAAGATAATCACTGTCTCCGTA AAAAG
 AAGATGTGCACTTGAGAAAGCGGAGAATGCCTGGAAGCCGAGCCAGAAACGGGACAGCCACGCCGATGA
 CCCCAGAAAGCATTAAACTCAGGAACCTTTTCAGAAAAGTTCGAAGTATCTTGAATAAACTGACACCACAG
 ATGTTCAACCAGCTGATGAAGCAAGTGTGCGCTTACGGTGGACACGGAGGAGCGGCTAAAAGGGTCA
 TCGACCTGTCTTGAAGGCTATCGATGAGCCAGCTTCTCTGTGGCGTACGCAAACATGTGTGCGTG
 CCTAGTAACGCTGAAGGTGCCATGGCAGACAAGCCTGGCAACACAGTGAATTTCCGGAAGCTGCTGCTT
 AACCGCTGCCAGAAGGAGTTCGAGAAAGACAAAGCAGATGATGACGTCTTGGAGAAGAAGCAGAAAGAAC
 TGGAAAGCTGCCAGCGCTCCAGAGGAGAGACAAGGCTTACGACGAACTGGAAGAAGCCAAGGACAAAGC
 CCGGCGGAGATCCATCGGCAACATCAAGTTCATTGGAGA ACTCTTTAAACTGAAAATGCTGACGGAGGCC
 ATCATGCATGACTGTGTGGTGAAGCTCCTGAAGAACCACGATGAAGAGTCCCTGGAGTGCCTGTGTGCGC
 TGCTCACCACCATCGGCAAAGACCTGGACTTTGAGAAAGCAAAGCCACGCATGGACCAGTACTTTAACCA
 GATGGAGAAAAATCGTCAAAGAAAGAAAACTTCTCCAGAATTCGGTTCATGCTTCAGGATGTAATCGAC
 CTCAGACTGTGTAATGGGTGTCCCGAAGAGCAGATCAGGGGCCAAAACTATCGAGCAGATTCACAAAG
 AGGCCAAAATAGAAGAACAGAGGAGCAGAGGAAAGTCCAGCAGCTGATGACCAAGGAGAGAGGAGACC
 AGCGTCCAAAGAGTGGATGAAGTGGATGGAATACTGTACAAGGGGCCAAGAACAGTCTGTACTGGAC
 CCTCCAAATTTTGAATAACTAAACCACCACTTGTGAGAAGATTCAGCTGGTTCTAAGGCACAGC
 TGGCAGCTGGGGCAAAGGCAGCAGCGGGGAGCAAAGGCAAGTGAAGTCCGATGCCTTACGGTCAAGTGC
 TTCCAGTTTAAATAGATTCTCTCTCTGCAACCTCCAGCACCTTTCAGGGTCCCGCTCGGCCACACCTTA
 GAGTTTGATTCCCGAAGGGCGTTAACAGTCTGTTGGAGCATGGGCAGGGAGAAGAGCGACAAGCCAATTC
 CAGCTGGAACAGCCCGTCCCAACACGTTCTGAGGGGCAGCAGCAAAGACCTGCTGGACAACAGTCCCA
 GGAAGAGCAGCGCAGAGAGATGTTGGAGACCGTGAACAGCTGACAGGAGGCTGGATGCTGAGCGGGCC
 AGCACTGAGGCCACCGAAGCAAACGAGGGAGCTAGCAAATCGGAAATGTGTGCACTGCCAGCCCTG
 ACAAGCCTGCACTGTGAGAAGAGGAAGTGGAGAGGAAGTCCAAGTCTATCATTGACGAATCTTACACAT
 CAATGACTTTAAGGAGGCCACGCAGTGCATAGAGGAGCTGAGCGCCAGGGCCACTGCATGTGTTGCTG
 AAGGTGGGTGTGGAGTTCACCCTGGAACGGAGCCAGATCACAGGGACCACATGGGCCACTTACTGTATC
 AGCTGGTGCAGTCAAAAACTCAGCAAGCAGGACTTTTTCAAAGTTTTTCTGAAAACCTTGGAGTTGGC
 AGATGACATGGCCATTGATATCCCATATTTGGTTGTACCTGGCTGAACTGGTCAACCCCATGTTAAAA
 GGAGGGGGGATTTCCATGAGAGA ACTTATTGTGGAATTCAGCAAGCCATTACTTCTGTTGGCAGAGCTG
 GGGTCTGCTTTCTGAAATCCTACACCTTCTATGCAGACAAATGAGCCATAAGAAAGTAGGCGCCCTGTG
 GAGGGAGGCTGACCTCAGCTGGAAGGACTTTTTACCGAAGGGGAAGATGCCATCATTTTCTCTTGGAG
 CAGAAGTTGACTTACGGAATCCGAAGGGCCCTGCTCCTCTGAGGCAGTGTCAAAGAAGGAGCTGTCTG
 CCGAGGAGCTGTCTCAGCGCCTGGAAAAGCTCATCATGGAGGAGAAAGCGGATGACGAGCGGATCTTTGA
 CTGGTGGAGACTTGTCCGGATGTTTTTGTGCTGTATGACGAGGAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001256198
Insert Size: 4395 bp

OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	<u>NM_001256198.1</u> , <u>NP_001243127.1</u>
RefSeq Size:	6069 bp
RefSeq ORF:	4395 bp
Locus ID:	230861
Cytogenetics:	4 D3
Gene Summary:	<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 (3) contains an alternate exon in the 5' UTR and lacks an alternate, in-frame, exon in the 3' coding region which causes a shift in the reading frame, compared to variant 1. The resulting protein (isoform 3) has a shorter and distinct C-terminus when it is compared to isoform 1.</p>