

Product datasheet for **MC224280**

Eif3a (NM_010123) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Eif3a (NM_010123) Mouse Untagged Clone
Tag: Tag Free
Symbol: Eif3a
Synonyms: A830012B05Rik; Csma; Eif3; Eif3s10; mKIAA0139
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224280 representing NM_010123
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCGGCCTATTTCCAGAGGCCGAAATGCCCTCAAGCGGCCAACGAATTTCTTGAGGTTGGCAAAA
 AGCAGCCTGCCCTGGATGTTCTTTATGATGTAATGAAAAGTAAGAAGCACAGAACATGCCAGAAGATACA
 TGAGCCAATTATGCTGAAATACTTGAAGTGTGTGGATCTTCGTAAGAGCCACTTGGCTAAGGAAGGG
 TTATATCAATATAAGAACATATGCCAACAGGTAACATTAATCTTTAGAAGATGTTGTTAGGGCATATT
 TGAAATTAGCAGAGGAAAAACAGAAGCTGCTAAAGAAGAGTCCCAACAATGGTGTAGATATAGAAGA
 TCTGGATAATATTCAGACTCCTGAGAGTGTCTCTTAAGTGCAGTAAGTGGGAAGATACTCAGGATCGT
 ACTGACAGATTGCTACTGACTCCCTGGGTCAAGTTCCTGTGGGAATCATACAGGCAGTGTGGACCTTC
 TTCGAAACAATTCTAGAGTAGAGCGCCTTTACCATGATATCGCCCAACAAGCTTTCAAATTCGCCTCCA
 GTATACTCGGAAGGCTGAGTCCGCAAGCTATGTGACAACTTGGCAATGCACTTATCCAGATTCAGCGC
 CACCATAACCAAGCACAGCAATTAATCTTAATAATCCAGAGAGCCAGTCTATGCATTTGGAAACCAGAC
 TTGTTTCAGTTGGACAGTGTATCAGCATGGAATTAATGTCAGGAAGCCTTCAAAGCTGTGGAAGATTTCA
 TGGACTATTTTCTTGTCTAAGAAACCACCTAAGCCTCAGTTGATGGCAAATTACTATAACAAAGTTTCA
 ACAGTGTTTTGGAAATCTGGAAATGCTTTGTTCCATGCATCTACACTTCATCGTCTTTATCATCTGTCTA
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 CACAGATTTATCAGAGCATTGAGTTTTCTGTTTCTGACTTCTCTGTTTCTTTTGTGATGCTTTCCAAC
 GGAACGGGCCATAGTAGATGCAGCCAGGCACTGTGACCTGCAGGTACGTATTGACCATACTCCCGGACT
 CTGAGTTTTGGATCAGATTTGAATTATGCAACTCGAGAAGATGCCCCAGTTGGCCCTCATCTGCAGAGCA



TGCCTTCAGAGCAGATAAGAAACCAGCTCACGGCCATGTCCTCAGTGCTTGCCAAAGCACTTGAAGTCAT
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 CTTAGAGAGTATCAGGAGCGAGTCAAGAACTAGAAGAAGTAGAAAGGAAAAGCGGCAAGAGAGCTGG
 AAATTGAAGAAAAGGGAAAGGCGCAGAGAGGAAGAAAGGAGACTTGGTGATGATCCACTTTCTAGGAAGGA
 CTCTCGGTGGGGAGATAGAGATTCAGAAGGCACCTGGAGGAAAGGACCAGAAGCTGACTCTGAGTGGAGA
 AGAGGCCACCAGAAAAGGAGTGGAGACGAGAACTCGGGATGATGAGAGGCCTCACAGGAGAGATGAGG
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 GATTTCCAGGAGAGGTGCAGATGATGACCGAGGCGCTTGGAGAAATATGGATGATGATAGGGTTCCTAGA
 AGGGGTGATGATGCAAGACCTGGTCTTGGAGACCATTGTCAAGCCAGGTGGATGGAGAGAGAAAAGAAA
 AGGCTAGAGAAGAGAGTTGGGGTCCACCTCGAGAATCAAGACCATCAGAAGAACCTGAATGGGATAGAGA
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 GAGAGAGATGGGACCGGAGGATCGATTGAGAAGACCCAGGGATGAAGGTGGCTGGAGAAGAGGACCAG
 CAGAAGAATCTCAAGCTGGAGAGATTCAGTCCCGTGTGATGATAGGGACAGGGAAGACCGTCCGACGGGA
 TAGAGATGATCGTGTGATCTGAGAGACCTGAGAGACAGAAGGGATTTAAGAGATGATAGAGATCGGAGA
 GGACCTCCCTCAGATCAGAGCGAGAAGCAAGCTCTTGGAGACGCACTGATGACAGGAAAGATGACC
 GGACTGAAGAGAGGGATCCACCTCGTCTGTTCTCCCCAGCTCTTTCAAGAGATCGAGAAAGAGAGCG
 AGAACGAGAAGGTGAGAAAGAGAAAGCATCCTGGAGAGCTGAGAAAGATAGGGAGTCCCTTCGTCGTA
 AAGAAATGAAACTGATGAAGATGGATGGACCACAGTACGACGTTAA

ACGCGTACGCGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_010123

Insert Size:

4035 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).

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:

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: [NM_010123.3](#), [NP_034253.3](#)

RefSeq Size: 5176 bp

RefSeq ORF: 4035 bp

Locus ID: 13669

UniProt ID: [P23116](#)

Cytogenetics: 19 D3

Gene Summary: RNA-binding component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAⁱ and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression.[UniProtKB/Swiss-Prot Function]