

Product datasheet for **MC219118**

Eif3l (NM_145139) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif3l (NM_145139) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eif3l
Synonyms:	0610011H21Rik; D15N1e; Eif3eip; Eif3ip; Eif3s6ip; HSP-66Y; PAF67
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219118 representing NM_145139
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTACCCCGCTGATGACTACGAGTCTGAGGCTGCTTATGATCCCTACGCCTACCCGGCGACTATG
 ATATGCACACAGGAGATCCGAAGCAGGACCTTGCCCTATGAGCGGAGTATGAGCAGCAGACATATCAGGT
 GATACCGGAAGTATCAAAAACCTCATCCAGTACTCCACAAGACTGTCTCCGATTTGATTGACCAGAAG
 GTGTACGAGCTTCAGGCCAGCCGCTCTCGAGTATGTCATTGACCAGAAGGTGTACGAGATCCAGGACA
 TTTACGAGAACAGCTGGACCAAGCTAACTGAAAGGTTCTTCAAGAATACACCGTGGCCTGAGGCAGAAGC
 AATTGCACCCCAAGTTGGCAATGATGCCGATTCTCAATTTTGTACAAAGAATTGTACTACAGGCATATT
 TACGCCAAAGTCAGTGGGGTCCCTCCTTAGAACAGAGGTTTGAATCTTATTACAACACTGCAATCTCT
 TCAACTACATCCTCAATGCGGATGGACCTGCGCCCTTGAACCTCCCAACAGTGGCTCTGGGACATCAT
 CGATGAGTTCATCTACCAGTTCAGTCATTGAGTACGAGTCCGCTGCAAGACGGCCAAGAAGTCAGAGGGA
 GAGATGGACTTCCTTAGGTCCAACCTAAAGTCTGGAACGTGCACAGCGTCTCAACGTGCTGCACTCCC
 TGGTGGACAAGTCCAACATCAACCCGCGCTGGAGGTCTACACCAGCGGAGGTGACCCGGAAAGTGTAGC
 TGGGGAGTATGGACGACACTCCCTCTACAAGATGCTCGGCTACTTCAGCCTGGTGGGGCTTCTGCGCCTG
 CATTCTCTACTGGGGGATTACTACCAGGCTATCAAGGTGCTGGAGAATATCGAGCTGAACAAGAAAAGCA
 TGTATTCCTGCTGCCTGAGTGCAGGTACCACCTACTATTATGTTGGCTTTGCGTATTTAATGATGCG
 TCGATATCAGGATGCTATCCGAGTCTTTGCCAACATCCTCCTGTACATCCAGAGGACCAAGAGTATGTT
 CAGAGGACCACATACAAATATGAAATGATTAACAAGCAGAACGAGCAGATGCATGCTCTGCTGGCCATTG
 CTCTACCATGTACCCGATGCGGATCGACGAGAGCATACACCTCCAGCTGCGGGAGAAAACCGGGACAA
 GATGCTGCGCATGCAGAAGGGGGACCCCAAGTCTATGAGGAACCTTTTTCAGCTATGCCTGCCCAAGTTC
 CTGTGCGCTGTGGTGCCAAACTACGACAATGTCCATCCTAACTACCACAAGAGCCCTTCTGCAGCAGC
 TGAAGGTGTTTTCCGATGAGGTGCAGCAGCAGGCCAGCTCTCCACCATCCGAGCTTCTCAAGCTCTA
 CACCACCATGCCTGTGGCCAAGCTGGCCGGCTTCTGGACCTCACCGAGCAGGAGTTCGCGATCCAGCTG
 CTCGTCTCAAGCACAAGATGAAGAATCTGGTGTGGACCAGTGGCATTCTGCCCTAGATGGCGAATTCC
 AGTCGGCCTCGGAGGTGGACTTCTATATTGATAAGGACATGATCCATATTGCAGACACCAAAGTTGCCAG
 ACGCTATGGGGATTTCTTATCCGACAGATCCACAAGTTTGAAGAGCTTAATCGAACCTGAAGAAGATG
 GGACAGAGGCCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_145139
- Insert Size:** 1695 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_145139.2](#), [NP_660121.2](#)

RefSeq Size: 1893 bp

RefSeq ORF: 1695 bp

Locus ID: 223691

UniProt ID: [Q8QZY1](#)

Cytogenetics: 15 37.7 cM

Gene Summary: 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]