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# Product datasheet for MC219118

## Eif3l (NM_145139) Mouse Untagged Clone

### Product data:

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| **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 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

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**Fully Sequenced ORF:**

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTTACCCCGCTGATGACTACGAGTCTGAGGCTGCTTATGATCCCTACGCCTACCCGGGCGACTATG
ATATGCACACAGGAGATCCGAAGCAGGACCTTGCCTATGAGCGGCAGTATGAGCAGCAGACATATCAGGT
GATACCGGAAGTGATCAAAAACTTCATCCAGTACTTCCACAAGACTGTCTCCGATTTGATTGACCAGAAG
GTGTACGAGCTTCAGGCCAGCCGCGTCTCGAGTGATGTCATTGACCAGAAGGTGTACGAGATCCAGGACA
TTTACGAGAACAGCTGGACCAAGCTAACTGAAAGGTTCTTCAAGAATACACCGTGGCCTGAGGCAGAAGC
AATTGCACCCCAAGTTGGCAATGATGCCGTATTCCTAATTTTGTACAAAGAATTGTACTACAGGCATATT
TACGCCAAAGTCAGTGGGGGTCCCTCCTTAGAACAGAGGTTCGAATCTTATTACAACTACTGCAATCTCT
TCAACTACATCCTCAATGCGGATGGACCTGCGCCCCTTGAACTCCCCAACCAGTGGCTCTGGGACATCAT
CGATGAGTTCATCTACCAGTTCCAGTCATTCAGTCAGTACCGCTGCAAGACGGCCAAGAAGTCAGAGGGA
GAGATGGACTTCCTTAGGTCCAACCCTAAAGTCTGGAACGTGCACAGCGTCCTCAACGTGCTGCACTCCC
TGGTGGACAAGTCCAACATCAACCGGCAGCTGGAGGTCTACACCAGCGGAGGTGACCCGGAAAGTGTAGC
TGGGGAGTATGGACGACACTCCCTCTACAAGATGCTCGGCTACTTCAGCCTGGTGGGGCTTCTGCGCCTG
CATTCTCTACTGGGGGATTACTACCAGGCTATCAAGGTGCTGGAGAATATCGAGCTGAACAAGAAAAGCA
TGTATTCCCGTGTGCCTGAGTGCCAGGTCACCACCTACTATTATGTTGGCTTTGCGTATTTAATGATGCG
TCGATATCAGGATGCTATCCGAGTCTTTGCCAACATCCTCCTGTACATCCAGAGGACCAAGAGTATGTTC
CAGAGGACCACATACAAATATGAAATGATTAACAAGCAGAACGAGCAGATGCATGCTCTGCTGGCCATTG
CTCTCACCATGTACCCGATGCGGATCGACGAGAGCATACACCTCCAGCTGCGGGAGAAATACGGGGACAA
GATGCTGCGCATGCAGAAGGGGGACCCCCAGGTCTATGAGGAACTTTTCAGCTATGCCTGCCCCAAGTTC
CTGTCGCCTGTGGTGCCAAACTACGACAATGTCCATCCTAACTACCACAAAGAGCCCTTCCTGCAGCAGC
TGAAGGTGTTTTCCGATGAGGTGCAGCAGCAGGCCCAGCTCTCCACCATCCGCAGCTTCCTCAAGCTCTA
CACCACCATGCCTGTGGCCAAGCTGGCCGGCTTCCTGGACCTCACCGAGCAGGAGTTCCGCATCCAGCTG
CTCGTCTTCAAGCACAAGATGAAGAATCTGGTGTGGACCAGTGGCATTTCTGCCCTAGATGGCGAATTCC
AGTCGGCCTCGGAGGTGGACTTCTATATTGATAAGGACATGATCCATATTGCAGACACCAAAGTTGCCAG
ACGCTATGGGGATTTCTTTATCCGACAGATCCACAAGTTTGAAGAGCTTAATCGAACCCTGAAGAAGATG
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).

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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] |

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