

Product datasheet for **MC218829**

Eif3d (NM_018749) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif3d (NM_018749) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eif3d
Synonyms:	66/67kDa; AA407891; eIF3p66; Eif3s7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC218829 representing NM_018749
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGAAGTTCATGACACCTGTGATCCAGGACAACCCCTCAGGCTGGGGTCCCTGTGCCGTTCCCTGAGC
AATTTTCGGGATATGCCCTACCAGCCATTACGAAAGGAGATCGGCTGGGAAAGTTGCAGACTGGACAGG
GGCCACATACCAGGACAAGAGGTACACAAACAAGTATTCTCTCAGTTCCGGTGGGGGAAGTCAGTATGCA
TATTTCCATGAGGAGGATGAGACAAGCTTCCAGCTGGTGGACACGGCACGGACACAGAAGACCGCTACC
AGCGGAACCGGATGAGATTGCGACAGCGCAACCTCCGACAGACAAGATCGGAGGAACATGGTGCAGTT
CAACCTACAGACCCTGCCAAGAGTGCCAAGCAGAAAGAGAGAGAACGAATTCGTTGCAGAAAAAATTC
CAGAAGCAATTTGGAGTGAGGCAAAAAATGGACCAGAAGTCACAGAAACCCCGAGACTCCTCAGTTGAAG
TTCGACGTGACTGGGAGGTGAAGGAGGAGATGGACTTCCCTCAGCTGATGAAGATGCGCTACTTGAAGT
GTCAGAGCCTCAAGACATCGAGTCTGCGGAGCCCTGGAGTACTACGACAAGCCTTTGACCGCATCACC
ACAAGGAGTGAGAAGCCCTGCGGAGCATCAAGCGCATCTTTCACACCGTACCACCACAGACGACCCTG
TCATCCGGAAGCTGGCAAAAACGCAGGGCAATGTGTTGCCACTGACGCCATCCTGGCCACGCTGATGAG
CTGACCCCGCTCCGTGTACTCCTGGGACATCGTTGTCCAGAGAGTCCGCTCTAACTCTTCTTTGACAAG
AGGGACAACCTGACTTTGACCTCCTGACTGTGAGTGAGACAGCCAATGAGCCGCTCAAGATGAAGGCA
ACTCCTTCAACTACCCCGGAACCTGGCCATGGAAGCCACCTACATCAACCACAACCTTCTCTCAGCAGTG
CCTGAGAATGGGAAGAGAAAGATACAATTTCCCAACCCAAACCCATTTGTGGAGGACGACATGGATAAG
AATGAGATCGCCTCCGTGCTTACCGTTACCGCAGGTGGAAGCTTGGAGATGACATCGACCTTATCGTCC
GCTGTGAACACGATGGTGTGATGACCGGGGCCAACGGGGAAGTGCCTTCATCAACATCAAGACGCTCAA
TGAATGGGACTCCAGGCATTGTAATGGCGTTGACTGGCGTCAGAAGCTGGACTCTCAGCCTGGGGCTGTC
ATCGCCACTGAATTGAAGAACAACAGCTACAAGTTGGCACGGTGGACCTGCTGTGCTTTGCTGGCTGGAT
CTGAGTACCTGAAGCTCGGGTATGTGTCCCGTACCACGTAAGGACTCCTCACGCCATGTCATCTGGG
CACCCAGCAGTTTAAGCCCAATGAGTTTCCAGTCAGATCAACCTGAGCGTGGAGAATGCCTGGGGCATC
CTGCGTCTGCTCATCGACATCTGCATGAAGCTGGAGGAGGCAAGTACCTCATCTCAAGACCCCAACA
AGCAGGTATCCGGTCTACAGCCTGCCTGATGGCACCTTCAGCTCTGAGGAGGACGAAGAGGACGAGGA
GGAGGAAGAGGAGGAAGAGGAAGAGGAAGAAACTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_018749

Insert Size: 1647 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_018749.2](#), [NP_061219.2](#)

RefSeq Size: 1910 bp

RefSeq ORF: 1647 bp

Locus ID: 55944

UniProt ID: [O70194](#)

Cytogenetics: 15 E1

Gene Summary: mRNA cap-binding component of the eukaryotic translation initiation factor 3 (eIF-3) complex, a complex required for several steps in the initiation of protein synthesis of a specialized repertoire of mRNAs. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNA_i 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. In the eIF-3 complex, EIF3D specifically recognizes and binds the 7-methylguanosine cap of a subset of mRNAs.[UniProtKB/Swiss-Prot Function]