

## Product datasheet for **MR208705**

### Eif3d (NM\_018749) Mouse Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>MR208705 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGAAGTTCATGACACCTGTGATCCAGGACAACCCCTCAGGCTGGGGTCCCTGTGCCGTTCCCTGAGC  
 AATTTTCGGGATATGCCCTACCAGCCATTACGAAAGGAGATCGGCTGGGAAAGGTTGCAGACTGGACAGG  
 GGCCACATACCAGGACAAGAGGTACACAAACAAGTATTCTCTCAGTTCCGGTGGGGGAAGTCAGTATGCA  
 TATTTCCATGAGGAGGATGAGACAAGCTTCCAGCTGGTGGACACGGCACGGACACAGAAGACCGCTACC  
 AGCGGAACCGGATGAGATTGCGACAGCGCAACCTCCGACAGACAAGATCGGAGGAACATGGTGCAGTT  
 CAACCTACAGACCCTGCCAAGAGTGCCAAGCAGAAAGAGAGAGAACGAATTCGTTGCAGAAAAAATTC  
 CAGAAGCAATTTGGAGTGAGGCAAAAAATGGACCAGAAGTCACAGAAACCCCGAGACTCCTCAGTTGAAG  
 TTCGACGTGACTGGGAGGTGAAGGAGGAGATGGACTTCCCTCAGCTGATGAAGATGCGCTACTTGAAGT  
 GTCAGAGCCTCAAGACATCGAGTCTGCGGAGCCCTGGAGTACTACGACAAGCCTTTGACCGCATCACC  
 ACAAGGAGTGAGAAGCCCTGCGGAGCATCAAGCGCATCTTTCACACCGTACCACCACAGACGACCCTG  
 TCATCCGGAAGCTGGCAAAAACGCAGGGCAATGTGTTGCCACTGACGCCATCCTGGCCACGCTGATGAG  
 CTGACCCCGCTCCGTGTACTCCTGGGACATCGTTGTCCAGAGAGTCCGCTCTAAACTCTTCTTGACAAG  
 AGGGACAACCTGACTTTGACCTCCTGACTGTGAGTGAGACAGCCAATGAGCCGCTCAAGATGAAGGCA  
 ACTCCTTCAACTACCCCGGAACCTGGCCATGGAAGCCACCTACATCAACCACAACCTTCTCTCAGCAGTG  
 CCTGAGAATGGGAAGAGAAAAGATACAATTTCCCAACCCAAACCCATTTGTGGAGGACGACATGGATAAG  
 AATGAGATCGCCTCCGTGCTTACCCTTACCAGCAGGTGGAAGCTTGGAGATGACATCGACCTTATCGTCC  
 GCTGTGAACACGATGGTGTGATGACCGGGGCCAACGGGGAAGTCTCCTCATCAACATCAAGACGCTCAA  
 TGAATGGGACTCCAGGCATTGTAATGGCGTTGACTGGCGTCAGAAGCTGGACTCTCAGCGTGGGGCTGTC  
 ATCGCCACTGAATTGAAGAACAACAGCTACAAGTTGGCACGGTGGACCTGCTGTGCTTTGCTGGCTGGAT  
 CTGAGTACCTGAAGCTCGGGTATGTGTCCCGTACCACGTAAGGACTCCTCACGCCATGTCATCTGGG  
 CACCCAGCAGTTAAGCCCAATGAGTTTCCAGTCAAGCTGAGCGTGGAGAATGCCTGGGGCATC  
 CTGCGTCTGCTCATCGACATCTGCATGAAGCTGGAGGAGGCAAGTACCTCATCTCAAGGACCCCAACA  
 AGCAGGTATCCGGGTCTACAGCCTGCCTGATGGCACCTCAGCTCTGAGGAGGACGAAGAGGACGAGGA  
 GGAGGAAGAGGAGGAAGAGGAAGAGGAAGAAACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208705 protein sequence  
 Red=Cloning site Green=Tags(s)

MAKFMTPVIQDNPSGWGPCAVPEQFRDMPYQPF SKGDR LGK VADWTGATYQDKRYTNKYSSQFGGGSQYA  
 YFHEEETSFLVDTARTQKTAYQRNMRFAQRNLRRDKDRRMVQFNLTLPKSAKQKERERIRLQKKF  
 QKQFGVRQKWDQKSQKPRDSSVEVRSDWEVKEEMDFPQLMKMRYLEVSEPDIECCGALEYDYKAFDRIT  
 TRSEKPLRSIKRIFHTVTTDDPVIRKLAKTQGNVFATDAILATLMSCTRSVYSWDIVVQVRVGSKLFFDK  
 RDNSDFDLLTVSETANEPQDEGNSFNPRNLAMEATYINHNFSQCLRMGRERYNFPNPNPFVEDDMDK  
 NEIASVAYRYRRWKL GDDIDLIVRCEHDGVMTGANGEVSVINIKTLNEWDSRHCNGVDWRQKLD SQRGAV  
 IATELKNNYSYKLARWTCCALLAGSEYLLKGYVSRVYHVKDSRHRVILGTQQFKPNEFASQINL SVENAWGI  
 LRCVIDICMKLEEGKYLILKDPNKQVIRVYSLPDGTF SSEEDEEDEEEEEEEEEET

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_018749

**ORF Size:** 1647 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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

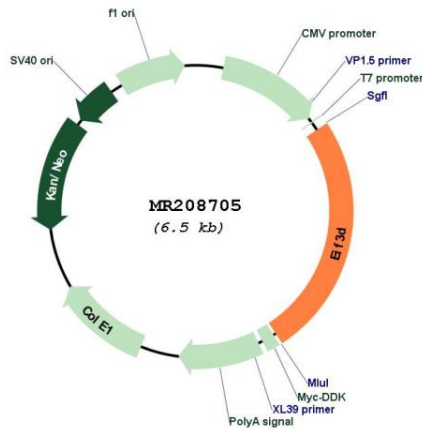
**UniProt ID:** [O70194](#)

**Cytogenetics:** 15 E1

**MW:** 64 kDa

**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<sup>i</sup> 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]

**Product images:**



Circular map for MR208705