

Product datasheet for **MG208705**

Eif3d (NM_018749) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif3d (NM_018749) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eif3d
Synonyms:	66/67kDa; AA407891; eIF3p66; Eif3s7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208705 representing NM_018749
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGAAGTTCATGACACCTGTGATCCAGGACAACCCCTCAGGCTGGGGTCCCTGTGCCGTTCCCTGAGC
 AATTTTCGGGATATGCCCTACCAGCCATTACGAAAGGAGATCGGCTGGGAAAGGTTGCAGACTGGACAGG
 GGCCACATACCAGGACAAGAGGTACACAAACAAGTATTCTCTCAGTTCCGGTGGGGGAAGTCAGTATGCA
 TATTTCCATGAGGAGGATGAGACAAGCTTCCAGCTGGTGGACACGGCACGGACACAGAAGACCGCTACC
 AGCGGAACCGGATGAGATTGCGACAGCGCAACCTCCGACAGACAAGATCGGAGGAACATGGTGCAGTT
 CAACCTACAGACCCTGCCAAGAGTGCCAAGCAGAAAGAGAGAGAACGAATTCGTTGCAGAAAAAATTC
 CAGAAGCAATTTGGAGTGAGGCAAAAAATGGACCAGAAGTCACAGAAACCCCGAGACTCCTCAGTTGAAG
 TTCGACGTGACTGGGAGGTGAAGGAGGAGATGGACTTCCCTCAGCTGATGAAGATGCGCTACTTGGAAAT
 GTCAGAGCCTCAAGACATCGAGTCTGCGGAGCCCTGGAGTACTACGACAAGCCTTTGACCGCATCACC
 ACAAGGAGTGAGAAGCCCTGCGGAGCATCAAGCGCATCTTTCACACCGTACCACCACAGACGACCCTG
 TCATCCGGAAGCTGGCAAAAACGCAGGGCAATGTGTTGCCACTGACGCCATCCTGGCCACGCTGATGAG
 CTGACCCCGCTCCGTGTACTCCTGGGACATCGTTGTCCAGAGAGTCCGCTCTAAACTCTTCTTTGACAAG
 AGGGACAACCTGACTTTGACCTCCTGACTGTGAGTGAGACAGCCAATGAGCCGCTCAAGATGAAGGCA
 ACTCCTTCAACTACCCCGGAACCTGGCCATGGAAGCCACCTACATCAACCACAACCTTCTCTCAGCAGTG
 CCTGAGAATGGGAAGAGAAAAGATACAATTTCCCAACCCAAACCCATTTGTGGAGGACGACATGGATAAG
 AATGAGATCGCCTCCGTGCTTACCCTTACCAGGTTGGAAGCTTGGAGATGACATCGACCTTATCGTCC
 GCTGTGAACACGATGGTGTGATGACCGGGGCAACGGGGAAAGTGCCTTCATCAACATCAAGACGCTCAA
 TGAATGGGACTCCAGGCATTGTAATGGCGTTGACTGGCGTCAGAAGCTGGACTCTCAGCGTGGGGCTGTC
 ATCGCCACTGAATTGAAGAACAACAGCTACAAGTTGGCACGGTGGACCTGCTGTGCTTTGCTGGCTGGAT
 CTGAGTACCTGAAGCTCGGGTATGTGTCCCGTACCACGTAAGGACTCCTCACGCCATGTCATCCTGGG
 CACCCAGCAGTTAAGCCCAATGAGTTTCCAGTCAAGCTGAGCGTGGAGAATGCCTGGGGCATC
 CTGCGTCTGCTCATCGACATCTGCATGAAGCTGGAGGAGGCAAGTACCTCATCTCAAGGACCCCAACA
 AGCAGGTCATCCGGTCTACAGCCTGCCTGATGGCACCTCAGCTCTGAGGAGGACGAAGAGGACGAGGA
 GGAGGAAGAGGAGGAAGAGGAAGAGAAACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208705 representing NM_018749
 Red=Cloning site Green=Tags(s)

MAKFMTPVIQDNPSGWGPCAVPEQFRDMPYQPF SKGDR LGKVADWTGATYQDKRYTNKYSSQF GGGSQYA
 YFHEEDET SFQLVDTARTQKTAYQRNRMFAQRNLRRDKDRRNMVQFNLQTLPKSAKQKERERIRLQKFF
 QKQFGVRQKWDQKSQKPRDSSVEVRS DWEVKEEMDFPQLMKMRYLEVSEPDIECCGALEYD KAFDRIT
 TRSEKPLRSIKRIFHTVTTDDPVIRKLAKTQGNVFATDAILATLM SCTR SVYSWDIVVQRVGSKLFFDK
 RDNSDFDLLTVSETANEP PQDEGNSFN SPRNLAMEATYINHNF SQQCLRMGRERYNFPNPNPFVEDDMDK
 NEIASVAYRYRRWKLGDIDLIVRCEHDGVM TGANGEVSFINIKTLNEWDSRHCNGVDWRQKLD SQRGAV
 IATELKNN SYKLARWTCCALLAGSEYKLGYSRYHVKDSRHVILGTQQFKPNEFASQINL SVENAWGI
 LRCVIDICMKLEEGKYLILKDPNKQVIRVYSLPDGTF SSEEDEE EEEEEEEEEET

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_018749
ORF Size:	1644 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:	<ol style="list-style-type: none">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]