

Product datasheet for **MG204624**

Eif3g (NM_016876) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Eif3g (NM_016876) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Eif3g
Synonyms: 44kDa; D0Jmb4; eIF3-p44; Eif3s4; p44; TU-189B2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204624 representing NM_016876
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGACTGGCGACTTTGACTCGAAGCCAGCTGGGCCGACCAGGTGGAGGAGGAGGGAGAGGACGACA
 AATGTGTACCAGCGAGCTCCTGAAAGGAATCCCTCTGCCACCGGGGACACCAGTCCAGAGCCCGAGTT
 ACTGCCCGGAGACCCGCTGCCACCTCCAAGGAAGTCATCAATGGGAACATAAAGACAGTGACTGAGTAC
 AAGATAGAGGAAGATGGGAAGAAATTCAAGATTGTCAGAACCTTCAGGATTGAGACCCGGAAGGCATCAA
 AAGCTGTGGCAAGGAGGAAGAATTGGAAGAAGTTGGCAACTCGGAGTTTGACCCACCGGGCCCAATGT
 GGCCACTACCACAGTCAGTGATGACGTCTCTATGACATTCATCACTAGCAAAGAGGACCTAAACTGTCAG
 GAGGAGGAGGACCCAATGAACAAGCTTAAGGGCCAGAAGATTGTGTCTGCCGCATTTGCAAGGGCGACC
 ATTTGGACCACCCGTTGCCCTACAAGGACACACTAGGACCCATGCAGAAGGAGCTGGCTGAGCAGCTCGG
 CCTGTCTACTGGGGAGAAGGAGAAACTGCCAGGAGAGCTGGAGCCGTGCAGGCCGCCAGAGCAAGACA
 GGAAGTATGTGCCCCCAGCCTCCGGGACGGGGCCAGCCGCGTGGGGAGTCCATGCAGCCAAACCGCA
 GAGCTGACGACAATGCCACCATCCGTGTACTAACCTGTCCGAGGACACTCGTGAGACTGACTTGCAGGA
 ACTCTTCCGGCCTTTTCGGCTCCATCTCCGAATCTACTTGGCCAAGGACAAGACTACTGGGCAGTCCAAG
 GGTTTTGCTTTTATCAGCTTTACCGCCGGGAGGATGCTGCACGTGCCATTGCAGGGGTGTCTGGTTTTG
 GCTACGACCATCTTATCCTCAATGTCGAGTGGCCAAGCCATCAACGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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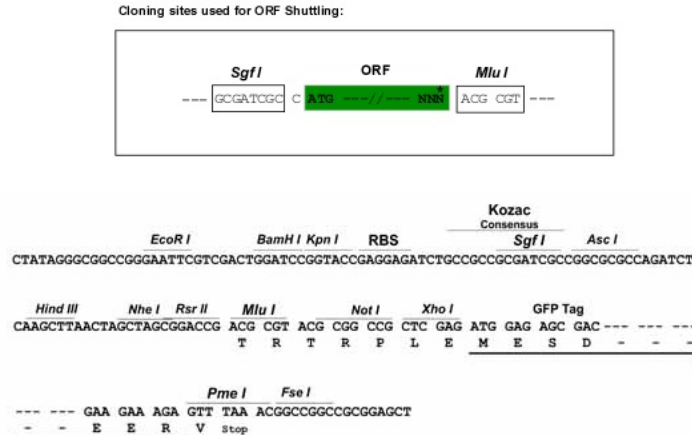
Protein Sequence: >MG204624 representing NM_016876
 Red=Cloning site Green=Tags(s)

MPTGDFDPSKPSWADQVEEEGEDDKCVTSELLKGIPLPTGDTSPPELLPGDPLPPPKEVINGNIKTVTEY
 KIEEDGKKFKIVRTFRIETRKASKAVARRKNWKKFGNSEFDPPGPNVATTTVSDDVSMTFITSKEDLNCQ
 EEEDPMNKLKGGKIVSCRICKGDHWTTRCPYKDTLGPMPQKELAEQLGLSTGEKEKLPGELEPVQAAQSKT
 GKYPVPSLRDASRRGSMQPNNRADDNATIRVTNLSEDTRETLQELFRPFGSISRIYLAKDKTTGQSK
 GFAFISFHRREDAARAIAGVSGFGYDHLILNVEWAKPSTN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016876

ORF Size: 960 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_016876.2](#)

RefSeq Size: 1068 bp

RefSeq ORF: 963 bp

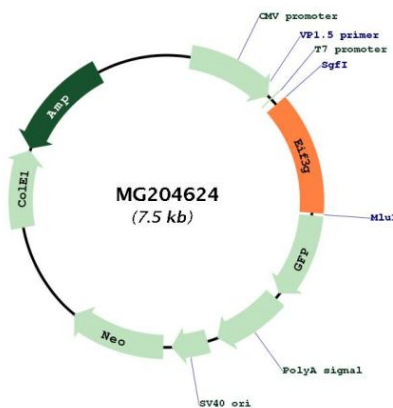
Locus ID: 53356

UniProt ID: [Q9Z1D1](#)

Cytogenetics: 9 A3

Gene Summary: RNA-binding 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-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. This subunit can bind 18S rRNA. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204624