

Product datasheet for **MR204624**

Eif3g (NM_016876) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif3g (NM_016876) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eif3g
Synonyms:	44kDa; D0Jmb4; eIF3-p44; Eif3s4; p44; TU-189B2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204624 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGACTGGCGACTTTGACTCGAAGCCAGCTGGGCCGACCAGGTGGAGGAGGAGGGAGAGGACGACA
AATGTGTACCAGCGAGCTCCTGAAAGGAATCCCTCTGCCACCGGGGACACCAGTCCAGAGCCCGAGTT
ACTGCCCGGAGACCCGCTGCCACCTCCAAGGAAGTCATCAATGGGAACATAAAGACAGTGACTGAGTAC
AAGATAGAGGAAGATGGGAAGAAATTCAAGATTGTCAGAACCTTCAGGATTGAGACCCGGAAGGCATCAA
AAGCTGTGGCAAGGAGGAAGAATTGGAAGAAGTTGGCAACTCGGAGTTTGACCCACCGGGCCCAATGT
GGCCACTACCACAGTCAGTGATGACGTCTCTATGACATTCATCACTAGCAAAGAGGACCTAAACTGTCAG
GAGGAGGAGGACCCAATGAACAAGCTTAAGGGCCAGAAGATTGTGTCTGCCGCATTTGCAAGGGCGACC
ATTGGACCACCCGTTGCCCTACAAGGACACACTAGGACCCATGCAGAAGGAGCTGGCTGAGCAGCTCGG
CCTGTCTACTGGGGAGAAGGAGAAACTGCCAGGAGAGCTGGAGCCGTGCAGGCCCGCCAGAGCAAGACA
GGGAAGTATGTGCCCCAGCCTCCGGGACGGGGCCAGCCGCGTGGGGAGTCCATGCAGCCAAACCGCA
GAGCTGACGACAATGCCACCATCCGTGTCACTAACCTGTCCGAGGACACTCGTGAGACTGACTTGCAGGA
ACTCTCCGGCCTTTCGGCTCCATCTCCGAATCTACTGGCCAAGGACAAGACTACTGGCAGTCCAAG
GGTTTTGCTTTTATCAGCTTTACCGCCGGGAGGATGTCACGTGCCATTGCAGGGGTGCTGGTTTTG
GCTACGACCATCTTATCCTCAATGTCGAGTGGCCAAGCCATCAACGAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204624 protein sequence
Red=Cloning site Green=Tags(s)

MPTGDFDKSPSWADQVEEEGEDDKCVTSELLKGIPLPTGDTSPPELLPGDPLPPPKEVINGNIKTVTEY
 KIEEDGKKFKIVRTFRIETRKASKAVARRKNWKKFGNSEFDPPGPNVATTTVSDDVSMFTITSKEDLNCQ
 EEEDPMNKLKGGKIVSCRICKGDHWTTRCPYKDTLGPMQKELAEQLGLSTGEKEKLPGELEPVQAAQSKT
 GKYPVPSLRDASRRGESMQPNRRADDNATIRVTNLSEDTRETLQELFRPFGSISRIYLAKDKTTGQSK
 GFAFISFHRREDAARAIAGVSGFGYDHLILNVEWAKPSTN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_016876

ORF Size: 963 bp

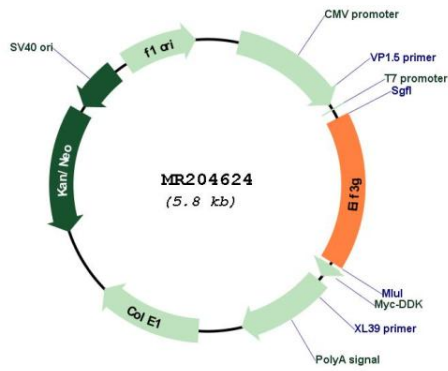
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_016876.2</u>
RefSeq Size:	1068 bp
RefSeq ORF:	963 bp
Locus ID:	53356
UniProt ID:	<u>Q9Z1D1</u>
Cytogenetics:	9 A3
MW:	35.6 kDa
Gene Summary:	<p>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-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. This subunit can bind 18S rRNA.</p> <p>[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR204624