

Product datasheet for **MG207103**

Eif3e (NM_008388) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif3e (NM_008388) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eif3e
Synonyms:	48kDa; eIF3-p46; eIF3-p48; Eif3s6; Int6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207103 representing NM_008388
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAGTACGACCTGACTACTCGCATCGCGCATTTTCTGGATCGGCACCTGGTCTTTCCGCTTCTTG
 AGTTTCTCTCTGTGAAAGAGATTATAATGAAAAAGAATTATTACAAGGAAAATTAGATCTTCTTAGTGA
 TACCAATATGGTGGACTTTGCTATGGATGTTTACAAAAACCTTTATTCTGATGATATCCCTCATGCTTTG
 AGAGAAAAAGAACCACAGTTGTTGCGCAGCTGAAACAGCTCCAGGCAGAAAACAGAACCAATTGTGAAGA
 TGTTTGAAGATCCAGAACTACAAGGCAGATGCAGTCAACCAGGGATGGCAGGATGTTATTTGACTACCT
 GGCAGACAAAATGGGTTTAGGCAAGAGTACTTAGATACACTCTACAGATACGCAAAATCCAGTATGAG
 TGTGAAATTACTCTGGAGCTGCAGAGTATCTTACTTCTTTAGAGTTTTGGTCCAGCAACAGATAGAA
 ATGCTTTAAGTTCGCTCTGGGAAAACCTGGCCTCTGAAATCTTAATGCAGAATGGGATGCAGCCATGGA
 AGACCTTACTCGATTAAGAAACCATAGACAATAATTCTGTGAGTTCTCCACTCCAGTCTTTCAGCAG
 CGAACATGGCTCATTCTGGTCTCTATTTGTTTTTTCAACCATCCAAAGGGCCGTGATAACATTATTG
 ATCTCTTCTTTACCAACCACAGTATCTTAATGCAATTGAGACAATGTGTCCACATATTCTACGCTATTT
 GACTACTGCCGTCATAACCAACAAAGATGTGCGGAAACGCCGGCAGGTGCTGAAAGATCTGGTGAAGTG
 ATTC AACAGGAGTCTTACACATAAAGACCCAATTACAGAAATTTGTTGAATGCCTATATGTTAACTTTG
 ATTTTGACGGGGCTCAGAAAAAGCTGAGAGAATGTGAATCAGTGCCTGTGAATGACTTCTTCTGGTAGC
 GTGTCTGGAGGACTTCATTGAGAATGCCGCTCTTTCATATTTGAGACGTTTTGTCGTATCCACCAGTGT
 ATCAGCATTAAATGTTAGCAGATAAACTGAATATGACTCCAGAAGAAGCTGAAAGATGGATTGTGAATT
 TGATTAGAAATGCGAGGTTGGATGCCAAGATTGATTCTAAACTAGTTCATGTGGTAAATGGGCAACAATGC
 AGTCTCGCCCTACCAGCAAGTGATTGAAAAGACCAAAAGCCTTTCTTTTAGAAGCCAAATGTTGGCCATG
 AATATTGAAAAGAACTTAATCAGAACAGTAGATCAGAGGCTCCCAACTGGGCAACCCAAGACTCTGGCT
 TCTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207103 representing NM_008388
 Red=Cloning site Green=Tags(s)

MAEYDLTTRIAHFLDRHLVFPLLEFLSVKEIYNEKELLQGKLDLLSDTNMVDFAVDVYKNLYSDDIPHAL
 REKRTTVVAQLKQLQAETEPIVKMFEDPETTRQMSTRDGRMLFDYLADKHGFRQEYLDLYRYAKFQYE
 CGNYSGAAEYL YFFRVL VPATDRNAL SSLWGKLASEILMQNWDAAMEDLTRLKETIDNNSVSSPLQSLQQ
 RTWL IHWSL FVFNHPKGRDNI IDLFL YQPQYLNAIQTMCPHILRYLTTAVITNKDVRKRRQVLKDLVKV
 IQQESYTYKDPITEFVECLYVNFDFDGAQKKLRECESVLVNDFFLVACLEDFIENARLFI FETFCRIHQ
 ISINMLADKLNMTPEEAERWIVNLI RNARLDAKIDSKLGHVVMGNNAVSPYQQVIEKTKSLSFRSQMLAM
 NIEKKNQNSRSEAPNWTQDSGFY

TRTRPLE - GFP Tag - V

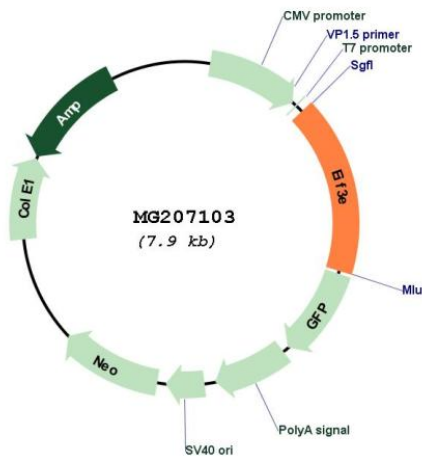
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008388

ORF Size: 1335 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_008388.1
RefSeq Size:	1541 bp
RefSeq ORF:	1338 bp
Locus ID:	16341
UniProt ID:	P60229
Cytogenetics:	15 16.73 cM
Gene Summary:	<p>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. Required for nonsense-mediated mRNA decay (NMD); may act in conjunction with UPF2 to divert mRNAs from translation to the NMD pathway. May interact with MCM7 and EPAS1 and regulate the proteasome-mediated degradation of these proteins.</p> <p>[UniProtKB/Swiss-Prot Function]</p>