

## Product datasheet for **MR207103**

### Eif3e (NM\_008388) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eif3e (NM_008388) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eif3e
Synonyms:	48kDa; eIF3-p46; eIF3-p48; Eif3s6; Int6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207103 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGAGTACGACCTGACTACTCGCATCGCGCATTTTCTGGATCGGCACCTGGTCTTTCCGCTTCTTG  
 AGTTTCTCTGTGAAAGAGATTTATAATGAAAAAGAATTATTACAAGGAAAATTAGATCTTCTAGTGA  
 TACCAATATGGTGGACTTTGCTATGGATGTTTACAAAAACCTTTATTCTGATGATATCCCTCATGCTTTG  
 AGAGAAAAAGAACCACAGTTGTTGCGCAGCTGAAACAGCTCCAGGCAGAAAACAGAACCAATTGTGAAGA  
 TGTTTGAAGATCCAGAACTACAAGGCAGATGCAGTCAACCAGGGATGGCAGGATGTTATTTGACTACCT  
 GGCAGACAAAATGGGTTTAGGCAAGAGTACTTAGATACACTCTACAGATACGCAAAATCCAGTATGAG  
 TGTGAAATTACTCTGGAGCTGCAGAGTATCTTACTTCTTTAGAGTTTTGGTCCAGCAACAGATAGAA  
 ATGCTTTAAGTTCGCTCTGGGAAAACCTGGCCTCTGAAATCTTAATGCAGAATTGGGATGCAGCCATGGA  
 AGACCTTACTCGATTAAGAAACCATAGACAATAATTCTGTGAGTTCTCCACTCCAGTCTTTCAGCAG  
 CGAACATGGCTCATTCTGGTCTCTATTTGTTTTTTCAACCATCCAAAGGGCCGTGATAACATTATTG  
 ATCTCTTCTTTACCAACCACAGTATCTTAATGCAATTGAGACAATGTGTCCACATATTCTACGCTATTT  
 GACTACTGCCGTCATAACCAACAAAGATGTGCGGAAACGCCGGCAGGTGCTGAAAGATCTGGTGAAGTG  
 ATCAACAGGAGTCTTACACATAAAGACCCAATTACAGAAATTTGTTGAATGCCTATATGTTAACTTTG  
 ATTTTGACGGGGCTCAGAAAAAGCTGAGAGAATGTGAATCAGTGCCTGTGAATGACTTCTTCTGGTAGC  
 GTGTCTGGAGGACTTCATTGAGAATGCCGCTCTTTCATATTTGAGACGTTTTGTCGTATCCACCAGTGT  
 ATCAGCATTAAATGTTAGCAGATAAACTGAATATGACTCCAGAAGAAGCTGAAAGATGGATTGTGAATT  
 TGATTAGAAATGCGAGGTTGGATGCCAAGATTGATTCTAACTAGGTCATGTGGTAAATGGCAACAATGC  
 AGTCTCGCCCTACCAGCAAGTGATTGAAAAGACCAAAAGCCTTTCTTTTAGAAGCCAAATGTTGGCCATG  
 AATATTGAAAAGAACTTAATCAGAACAGTAGATCAGAGGCTCCCAACTGGGCAACCCAAGACTCTGGCT  
 TCTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207103 protein sequence  
 Red=Cloning site Green=Tags(s)

MAEYDLTTRIAHFLDRHLVFPLLEFLSVKEIYNEKELLQGKLDLLSDTNMVFAMDVYKNLYSDDIPHAL  
 REKRITVVAQLKQLQAETEPIVKMFEDPETTRQMSTRDGRMLFDYLADKHGFRQYELDTLYRYAKFOYE  
 CGNYSGAAEYL YFFRVL VPATDRNAL SSLWGKLASEILMQNWAAMEDL TRLKETIDNNSVSSPLQSLQQ  
 RTWL IHWSLFVFFNHPKGRDNIIDLFLYQPQYLNAIQTMCPHILRYLTTAVITNKDVRKRRQVLKDLVKV  
 IQQESYTYKDPITEFVECLYVNFDFDGAQKLRCEESVLVNDFFLVACLEDFIENARLFIETFCRIHQ  
 ISINMLADKLNMTPEEAERWIVNLRNARLDAKIDSKLGHVVMGNNAVSPYQVIEKTKSLSFRSQMLAM  
 NIEKLNQNSRSEAPNWTQDSGFY

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**ACCN:** NM\_008388

**ORF Size:** 1338 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.

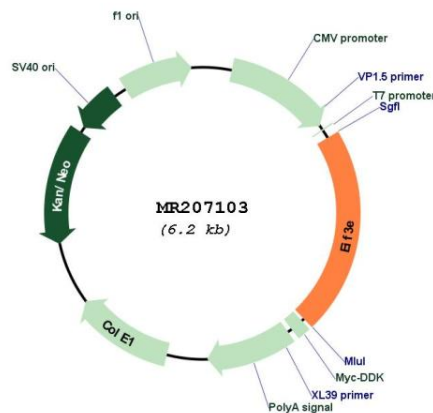
**RefSeq:** [NM\\_008388.1](#)
**RefSeq Size:** 1541 bp

**RefSeq ORF:** 1338 bp

**Locus ID:** 16341

**UniProt ID:** [P60229](#)

<b>Cytogenetics:</b>	15 16.73 cM
<b>MW:</b>	52.2 kDa
<b>Gene Summary:</b>	<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-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. 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. [UniProtKB/Swiss-Prot Function]</p>

**Product images:**


Circular map for MR207103