

Product datasheet for **MR220760**

Eif4e1b (NM_001033269) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4e1b (NM_001033269) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eif4e1b
Synonyms:	Eif4eloo; Gm273
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220760 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACAAAGTTGAGGGTGGAGGGCATAAGGAGGAGGTGGTGGTAAAAGAAAAGGAGGTAGTGAAAGAAA
AGCCATCAGAAGCAACTGCGGAGGGAGTCCAAGCAGGAGAAGCCAAAGACCTTCTGGCTCCCTTAAGC
TCAGAGGAGGAAGGCCACAGAGAACATCCACCAGAGGTCTGAGCAAGCTACACCCCTTGCAAGTACAGG
TGGTTCTGTGGTTCTTCAAGAATGACCGAAGCCGGGCTGGCAGGACAACCTGCAGCTAGTCACCAAGT
TTAACTGTGGAGGACTTCTGGGCGGTGTACAGCCATATCAAGCTGGCCAGCAAGCTCTTCCGGCTG
TACTATGCCCTGTTCAAGGAAGGCATCTGCCATGTGGGAAGACAACAGAAACAAGCAGGGTGGCCGC
TGGCTGCTCAGCATTGACAAACAACCTGCCACTTCAAGCTGGACCGTCTGTGGCTGGAGACGTTGCTGT
GTCTGGTTGGGAATTGTTTTGAGGAATACAGCAGGGAAGTGTGCGGTGCTGTCGTGAACATCCGCACGAA
GAGGGACAAGATTGCCCTGTGGACGAGTGAAGCAGAGGACAAAGCCGGAGTGTGCAGATCGGGCAAATA
TACAAAGAGCGCCTGGGCATCTCTACGAAGACCATCATTGGGTACCAGGCCCATGCAGACACTGTGCCA
AGAGCAACAACCTAGCAAACAAGTTTGTGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR220760 protein sequence
Red=Cloning site Green=Tags(s)

MNKVEGGGHKEEVVVKEKEVVKPSEATAEGVQAGEAKDLPGLKTQRRKAHREHPPEVLSKLHPLQYR
WVLFKNDRSRAWQDNLQLVTKFNTVEDFWAVYSHIKLASKLSSGCDYALFKEGILPMWEDNRNKQGGR
WLLSIDKQLRHFELDRLWLETLCLLVGNCFEESREVCGAVVNIIRTKRDKIALWTSEAEDKAGVMQIGQI
YKERLGISTKTIIGYQAHADTAAKSNNLANKFVV

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_001033269

ORF Size: 735 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_001033269.3](#), [NP_001028441.1](#)

RefSeq Size: 1919 bp

RefSeq ORF: 735 bp

Locus ID: 218268

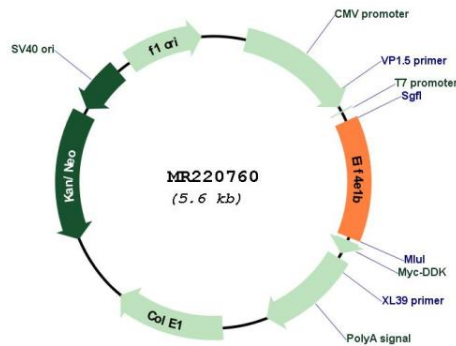
UniProt ID: [Q3UTA9](#)

Cytogenetics: 13 B1

MW: 28 kDa

Gene Summary: Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis and facilitates ribosome binding by inducing the unwinding of the mRNAs secondary structures.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220760