

## Product datasheet for **MR228373**

### Eif4e1b (NM\_001286180) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Eif4e1b (NM\_001286180) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Eif4e1b  
**Synonyms:** Eif4eloo; Gm273  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR228373 representing NM\_001286180  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCACTTCTGAGATGAACAAAGTTGAGGGTGGAGGGCATAAGGAGGAGGTGGTGGTGAAGAAAAGG  
 AGGTAGTGAAGAAAAGCCATCAGAAGCAACTGCGGAGGGAGTCCAAGCAGGAGAAGCCAAAGACCTTCC  
 TGGCTCCCTTAAGACTCAGAGGAGGAAGGCCACAGAGAACATCCACCAGAGGTCCTGAGCAAGCTACAC  
 CCCTTGACGTACAGGTGGTTCTGTGGTTCTTCAAGAATGACCGAAGCCGGCCTGGCAGGACAACCTGC  
 AGCTAGTACCAAGTTTAACTGTGGAGGACTTCTGGCGGTGTACAGCCATATCAAGCTGGCCAGCAA  
 GCTCTCTCCGGCTGTGACTATGCCCTGTTCAAGGAAGGCATCCTGCCATGTGGGAAGACAACAGAAAC  
 AAGCAGGGTGGCCGCTGGCTGCTCAGCATTGACAAACAACTGCGCCACTTCGAACTGGACCGTCTGTGGC  
 TGGAGACGCAGGGAAGTGTGCGGTGCTGCTGTAACATCCGCACGAAGAGGGACAAGATTGCCCTGTGGA  
 CGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228373 representing NM\_001286180  
 Red=Cloning site Green=Tags(s)

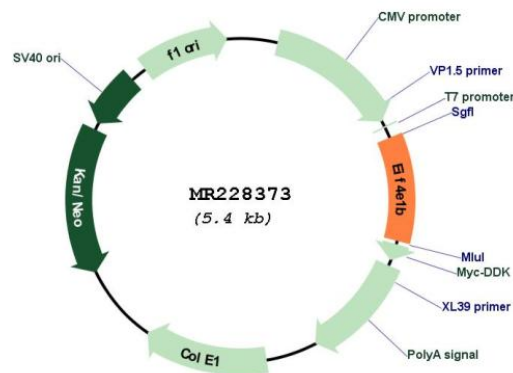
MATSEMKNVEGGGHKEEVVKEKEVVKPSEATAEGVQAGEAKDLPGLKTRRRKAHREHPPEVLSKLN  
 PLQYRWLWFFKNDRSRAWQDNLQLVTKFNTVEDFWAVYSHIKLASKLSSGCDYALFKEGILPMWEDNRN  
 KQGGRWLLSIDKQLRHFELDRLWLETQGSVRCREHPHEEGQDCPVDE

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001286180

**ORF Size:** 564 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\\_001286180.1](#), [NP\\_001273109.1](#)

**RefSeq Size:** 1810 bp

**RefSeq ORF:** 567 bp

**Locus ID:** 218268

**UniProt ID:** [Q3UTA9](#)

**Cytogenetics:** 13 B1

**MW:** 22.3 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]