

## Product datasheet for MR228405

### Eif3k (NM\_001285943) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Eif3k (NM\_001285943) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Eif3k  
**Synonyms:** 1200009C21Rik; Eif3s12  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR228405 representing NM\_001285943  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGATGTTTGAGCAGATGAGAGCGAACGTGGCAAGTTGCTCAAGGGTATCGACAGGTACCAGTTCA  
ACCCAGCCTTCTCCAGACCACAGTCACTGCCAGATTCTGCTGAAAGCCCTACCAACCTGCCACAC  
CGACTTCACTCTGTGTAATGTATGATCGACCAGGCACATCAAGAAGAGCGGCCATCCGGCAGATCTTG  
TACCTCGGGACCTGCTGGAGACCTGCCACTTCAAGCCTTCTGGCAAGCCCTGGATGAGAACATGGACC  
TTCTGGAAGGCATAACTGGCTTTGAAGACTCTGTCCGAAAATTTATCTGCCACGTGGTGGGCATCACGTA  
CCAGCACATCGACCGCTGGCTGCTGGCCGAGATGCTCGGAGACCTGACTGACAACCAGCTGAAGGTGTGG  
ATGAGCAAGTACGGCTGGAGCGCTGACGAGTCAGGGCAGGTCTTCATCTGCAGCCAGGAAGAGGCATTA  
AGCCCAAGAACATCGTGGAGAAGATTGACTTTGACAACCAGACTGGCCTCAAACCTCTACCTACCTCTCC  
TCCCGAGTGTGGAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228405 representing NM\_001285943  
 Red=Cloning site Green=Tags(s)

MAMFEQMRANVGKLLKGIDRYQFNPAFFQTTVTAQILLKALTNLPHTDFLCKCMIDQAHQEERPIRQIL  
YLGDLLETCHFQAFWQALDENMDLLEGITGFEDSVRKFICHVVGITYQHIDRWLLAEMLDLTDNQLKVV  
MSKYGWSADESGQVYICSQEESIKPKNIVEKIDFDNQTGLKLYLPLPPECWN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**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\\_001285943.1](#), [NP\\_001272872.1](#)

**RefSeq Size:** 933 bp

**RefSeq ORF:** 579 bp

**Locus ID:** 73830

**Cytogenetics:** 7 B1

**MW:** 22.7 kDa

**Gene Summary:** 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.[UniProtKB/Swiss-Prot Function]