

Product datasheet for **MR230988**

Eef2k (NM_001267711) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eef2k (NM_001267711) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eef2k
Synonyms:	C86191; eEF-2K
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230988 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGACGAAGACCTCATCTTCTGCCTGGAAGTGTTGACGGTGGCAGGTGCTCCCGAGCTGGCCACA
 ATGCGGACTCTGACACAGACAGTGACGATGATGAGGGCTATTTTCATCTGCCCCATCACTGATGACCACAT
 GTCCAATCAGAATGTCAGCTCCAAGTCCAGAGCTACTATAGCAACCTAACAAAAACAGAGTGCGGCTCC
 ACAGGGTCACCGAGCCAGCTCCTTCCACTTCAAGGAAGCCTGGAAGCATGCGATCGAGAAAGCCAAGCACA
 TGCCTGACCCCTGGGCTGAATTCATCTCGAGGACATCGCCACAGAACATGCTACTCGGCACAGGTACAA
 CGCTGTACCCGGGAATGGCTGAAAGACGAGGTTCTGATCAAGATGGCGTCTCAGCCCTTCGGCCGTGGA
 GCAATGAGGGAGTGCTTCAGGACGAAGAACTCTCCAATTCTTGACGCCAGCAATGGAAGGGGGCCT
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 GATGGAGCGGAAGCTCTGGGGGAGGATTACAATCGGCACAAGCCCCCAAGCAGGTGGATATCATGCGAG
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 AA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230988 protein sequence
 Red=Cloning site Green=Tags(s)

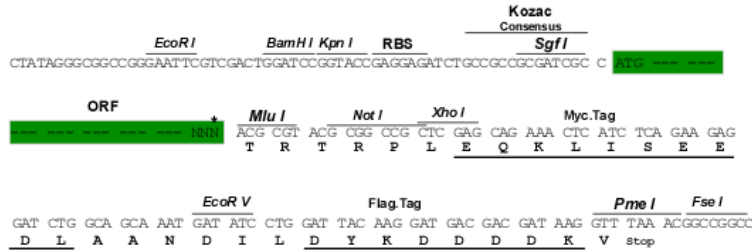
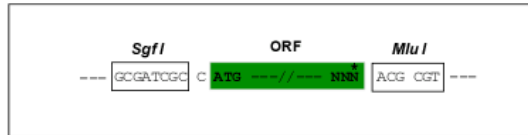
MADEDLIFCLEGVDDGGRCSRAGHNADSDTSDDDDEGYFICPITDDHMSNQNVSSKVQSYSNLTKTECGS
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 MCIIELKDRPGQPLFHLHIEGKYEIKYKNSNSGFVRDDNIRLTPQAFSHFTFERSGHQLIVVDIQVGD
 YTDPIHTEKGTDFGDGDLGVRGMALFFYSHACNRICQSMGLTPFDLSPREQDAVNQSTRLLQSAKTILR
 GTEEKCGSPRIRTLSSSRPPLLLRLSENSGDENMSDVTDFDLSPPSSATPHSQKLDHLHWPVFGDLNMP
 GPRDHRMDNHRDSENSGSDGYPSEKSDLDPEPREHGHSNGNRRHESDEDSLGSGRVCVETWLLNP
 SRLHLPRPSAVALVQRLNALDLGRKIGKSVLGVHLAMVRYHEGGRFCEKDEEWDRESAIFHLEHAADL
 GELEAIVGLGLMYSQLPHHILADVSLKETEENKTKGFDYLLKAAEAGDRHSMILVARAFDTGLNLSPDRC
 QDWSEALHWYNTALETTDCDEGGEYDGIQDEPQYALLAREAEMLLTGGFGLDKNPQRSGDLTYQAAEAAM
 EAMKGRLANQYYEKAEEAWAQMEE

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_001267711

ORF Size: 2172 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_001267711.1](#), [NP_001254640.1](#)

RefSeq Size: 6277 bp

RefSeq ORF: 2175 bp

Locus ID: 13631

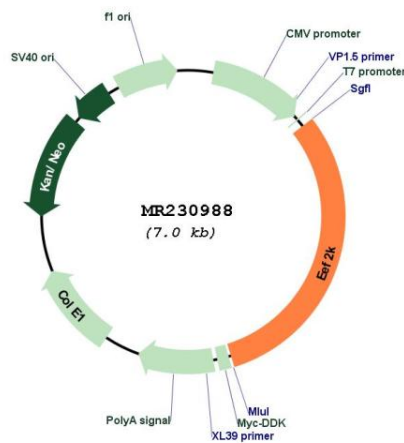
UniProt ID: [O08796](#)

Cytogenetics: 7 F2

MW: 81.7 kDa

Gene Summary: Threonine kinase that regulates protein synthesis by controlling the rate of peptide chain elongation. Upon activation by a variety of upstream kinases including AMPK or TRPM7, phosphorylates the elongation factor EEF2 at a single site, renders it unable to bind ribosomes and thus inactive. In turn, the rate of protein synthesis is reduced. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230988