

Product datasheet for **MC228776**

Eef2k (NM_001267710) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eef2k (NM_001267710) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eef2k
Synonyms:	C86191; eEF-2K
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228776 representing NM_001267710
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGACGAAGACCTCATCTTCTGCCTGGAAGTGTTGACGGTGGCAGGTGCTCCCGAGCTGGCCACA
 ATGCGGACTCTGACACAGACAGTGACGATGATGAGGGCTATTTTCATCTGCCCCATCACTGATGACCACAT
 GTCCAATCAGAATGTCAGCTCCAAGTCCAGAGCTACTATAGCAACCTAACAAAAACAGAGTGCGGCTCC
 ACAGGGTCACCGAGCCAGCTCCTTCCACTTCAAGGAAGCCTGGAAGCATGCGATCGAGAAAGCCAAGCACA
 TGCCTGACCCCTGGGCTGAATTCATCTCGAGGACATCGCCACAGAACATGCTACTCGGCACAGGTACAA
 CGCTGTACCCGGGAATGGCTGAAAGACGAGGTTCTGATCAAGATGGCGTCTCAGCCCTTCGGCCGTGGA
 GCAATGAGGGAGTGCTTCAGGACGAAGAACTCTCCAATTCTTGACGCCAGCAATGGAAGGGGGCCT
 CCAACTACGTGGCAAGCGCTACATCGAGCCGGTGGACAGGAGCGTGTACTTTGAGGATGTGACGCTCCA
 GATGGAGGCGAAGCTCTGGGGGAGGATTACAATCGGCACAAGCCCCCAAGCAGGTGGATATCATGCAG
 ATGTGCATCATTGAGCTAAAGGACAGACCAGGCCAGCCCTCTTCCAATTGGAGCACTACATTGAGGGCA
 AGTACATCAAGTACAATCCAACCTCAGGCTTTGTCCGTGATGACAACATCCGACTAACCCACAGGCCTT
 CAGCCATTTACATTTGAGCGTTCTGGTCATCAGCTGATTGTAGTGGACATCCAGGGTGTGGGTGACCTT
 TATACCGACCCACAGATCCACACTGAGAAAGGCACTGACTTTGGAGATGGTAACCTTGGTGTCCGGGAA
 TGGCTCTCTTCTACTCTCATGCCTGCAACCGGATTTGTGAGAGCATGGGCTTACGCCCTTTGACCT
 CTCCCCACGGGAACAGGATGCGGTGAATCAGAGCACCAGGCTATTGCAATCAGCCAAGACCATCTTGAGG
 GGGACAGAGGAGAAGTGTTGGGAGTCCCCGATAAGGACACTCTAGCAGCCGGCCCCCTTTGCTCCTTC
 CCCTGTGAGAGAAGTCCGGGGATGAGAACATGAGTGACGTGACCTTTGACTCTCTGCCTCTCTCCCGTC
 TTCAGCTACACCACAGCCAGAACTGGACCCTCCATTGGCCAGTGTGGTGACCTCGATAACATG
 GGCCCTAGAGACCATGACCGCATGGACAATCACGGGACTCTGAGAATAGTGGGGACAGTGGGTATCCAA
 GCGAGAAGCGAAGTGACCTGGATGATCCTGAGCCCGAGAACACGGCCACTCCAACGGCAACCGAAGGCA
 TGAATCTGACGAGGATAGCCTGGCAGCTCTGGACGGTCTGTGTGGAGACGTGGAACCTGCTCAATCCC
 TCCCGCTGCACCTGCCAGGCCCTCGGCCGTGGCCCTAGAAGTGCAGAGGCTAAATGCCCTGGACCTTG
 GAAGGAAAATCGGAAGTCTGTTTTGGGAAGGTCCATTTGGCCATGGTGCATACCACGAGGGCGGGCG
 CTTCTGCGAGAAGGATGAGGAGTGGGATCGAGAGTCAGCCATCTCCATCTGGAGCATGCAGCTGACCTG
 GGAGAAGTGGAGCCATCGTGGCCTAGGCCTCATGACTCTCAGCTGCCACCACATCCTGGCTGATG
 TCTCTCTGAAGGACAGAGGAGAAACAAGACAAAAGGCTTTGATTACTTACTGAAGGCGGCAAGAAGCTGG
 TGACAGGCATTCCATGATTTTAGTGCCCGAGCTTTTGACACTGGCCTGAACCTCAGCCAGACAGGTGT
 CAAGACTGGTCGGAAGCCTTGCCTGGTACAACACAGCCCTGGAGACAACAGACTGCGATGAAGGCGGGG
 AGTACGATGGGATACAGGACGAGCCCCAGTACGCACTGCTGGCCAGGGAGGCGGAGATGCTGCTACCCG
 GGGATTTGGACTGGACAAGAACCCCAAGATCAGGAGATTTGTACCCAGGCAGCTGAGGCAGCAATG
 GAAGCCATGAAGGCGCGCTAGCCAACCACTACTACGAGAAGGCGGAAGAGGCCTGGGCCAGATGGAGG
 AATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001267710
Insert Size: 2175 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001267710.1</u> , <u>NP_001254639.1</u>
RefSeq Size:	6282 bp
RefSeq ORF:	2175 bp
Locus ID:	13631
UniProt ID:	<u>O08796</u>
Cytogenetics:	7 F2
Gene Summary:	<p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>