

Product datasheet for **MC200428**

Eef2k (NM_007908) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eef2k (NM_007908) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eef2k
Synonyms:	C86191; eEF-2K
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC003433 sequence for NM_007908
 GGCAGCAGCCCCAACTCCAGCCGGTGCTCGGCTCCAGCGCTCCGACGTCTTCAGGCGCCCCACTGCGGCT
 GCGGGCCTGGCTCTGTGCGCTGCGCTTTGTACCGGGGATTCTCCTCCCTCCCTGCACCCTGGAGCGCC
 CGGCCGCCAGCCTTTGCCAGTCTCTGGGATCCTTGCGGCCGTGGGCAGCAGCTGTGCGGCTGCCACAC
 TGTGGGAGGACCATCCTTGCTGCACGTGCGCAGTAACCTGGCTGCACAGCGGAGCCCCGGATAACACG
 GTCGCCCCCGCAACATGGCAGACGAAGACCTCATCTTCTGCCTGGAAGGTGTTGACGGTGGCAGGTGCTC
 CCGAGCTGGCCACAATGGGACTCTGACACAGACAGTGACGATGATGAGGGCTATTTTCATCTGCCCATC
 ACTGATGACCACATGTCCAATCAGAATGTGAGCTCCAAAGTCCAGAGCTACTATAGCAACCTAACAAAA
 CAGAGTGCGGCTCCACAGGGTACCAGCCAGCTCCTTCCACTTCAAGGAAGCCTGGAAGCATGCGATCGA
 GAAAGCCAAGCACATGCCTGACCCTGGGCTGAATTCCATCTCGAGGACATCGCCACAGAACATGCTACT
 CGGCACAGGTACAACGCTGTACCGGGGAATGGCTGAAAGACGAGGTTCTGATCAAGATGGCGTCTCAGC
 CCTTGGCCGTGGAGCAATGAGGGAGTGTTCAGGACGAAGAACTCTCCAATTCTTGCACGCCACGCA
 ATGGAAGGGGGCCTCCAACACGTGGCCAAAGCGTACATCGAGCCGGTGGACAGGAGCGTACTTTGAG
 GATGTGCAGCTCCAGATGGAGGCGAAGCTCTGGGGGAGGATTACAATCGGCACAAGCCCCCAAGCAGG
 TGGATATCATGCAGATGTGCATCATTGAGCTAAAGGACAGACCAGCCAGCCCTTCCACTTGGAGCA
 CTACATTGAGGGCAAGTACATCAAGTACAATTCCAACCTCAGGCTTTGTCCGTGATGACAACATCCGACTA
 ACCCCACAGGCCTTCAGCCATTTACATTTGAGCGTTCTGGTTCATCAGCTGATTGTAGTGGACATCCAGG
 GTGTGGGTGACCTTTATACCGACCCACAGATCCACACTGAGAAAGGCACTGACTTTGGAGATGGTAACTT
 TGGTGTCCGGGAATGGCTCTCTTCTACTCTCATGCCTGCAACCGGATTTGTGAGAGCATGGGCCTT
 ACGCCCTTTGACCTCTCCCCACGGGAACAGGATGCGGTGAATCAGAGCACCAGGCTATTGCAATCAGCCA
 AGACCATCTTGAGGGGGACAGAGGAGAAGTGTGGGAGTCCCCGCATAAGGACACTCTTAGCAGCCGGCC
 CCCTTTGCTCCTTCGCTGTGAGAGAATCCGGGATGAGAATGAGTGACGTGACCTTTGACTCTCTG
 CCTTCTCCCCGTCTTCAGCTACACCACAGCCAGAACTGGACCACCTCCATTGGCCAGTGTGTTGGTG
 ACCTCGATAACATGGGCCCTAGAGACCATGACCGCATGGACAATACCGGGACTCTGAGAAATAGTGGGGA
 CAGTGGGTATCCAAGCGAGAAGCGAAGTACCTGGATGATCCTGAGCCCCGAGAACACGGCCACTCCAAC
 GGCAACCGAAGGCATGAATCTGACGAGGATAGCCTGGGCAGCTCTGGACGGGTCTGTGTGGAGAGCTGGA
 ACCTGCTCAATCCCTCCCGCTGCACCTGCCGAGGCCCTCGGCCGTGGCCCTAGAAGTGCAGAGGCTAAA
 TGCCCTGGACCTTGAAGGAAAATCGGGAAGTCTGTTTTGGGAAAGTCCATCTGGCCATGGTGCATAC
 CACGAGGGCGGGCGCTTCTGCGAGAAGGATGAGGAGTGGGATCGAGAGTCAGCCATCTTCCATCTGGAGC
 ATGCAGCTGACCTGGGAGAACTGGAGGCCATCGTGGCCTAGGCCCTCATGTACTCTCAGCTGCCCCACCA
 CATCTGGCTGATGTCTCTCTGAAGGAGACAGAGGAGAACAAGACAAAAGGCTTTGATTACTTACTGAAG
 GCGGCAGAAGCTGGTGACAGGCATTCCATGATTTTGTGGCCCGAGCTTTTGACACTGGCCCTGAACCTCA
 GCCCAGACAGGTGTAAGACTGGTCCGAAGCCTTGCACTGGTACAACACAGCCCTGGAGACAACAGACTG
 CGATGAAGGCGGGGAGTACGATGGGATACAGGACGAGCCCCAGTACGCACTGCTGGCCAGGGAGGCGGAG
 ATGCTGCTCACCGGGGGATTTGGACTGGACAAGAACCCCCAAAGATCAGGAGATTTGTACACCCAGGCAG
 CTGAGGCAGCAATGGAAGCCATGAAGGGCCGGCTAGCCAACCAGTACTACGAGAAGGCGGAAGAGGCCTG
 GGCCAGATGGAGGAATAACTGCCCCACAGAATCACTGCCAAGGAGAAAGGCTGGGAAGGGAGGATGGG
 ACTCATTTCTAGGGAGGGGAGAAGCAGTTTTTATTATGGTATAAACTCACTTTTGTATTCCGTTTTTCTCAC
 TCTTGATAGCCTTTGACAGCTGGCCGAGACATTAACTGCCCTTTTGTGGTGGTACTTTGGGGAAAGTG
 GGGGGTTGAAGATGCAGCCTAATGAGTCTTCCCGTCCACCCCCGGTTTTCCCTTTTTCATCCT
 GAGATGTAAGCAAGTATCTTTCTGTCTGGATGATCAGACAGTATCAGGGCTTCTCTGCCAGCCTTTGCA
 GGCAGGACTCACATCTCAGGCTCCTCAGGCCATGTGCTGGGAAACCTTTCTATTGGCTTTCCACAATGGG
 TCTTTCTTTAGTTTTGAGAGAGGTATGTTGTTTGTGTTTCTCCAGTGGATGTGAGATGGTTC
 AATACCCAGGCTCCTTCATGCTGGGGGAGATGTTGTATAACTCTCCACTTAATGCCCTCCACTGGAC
 ATGTGATCCTGGCATCCTTCTAAATTTTTTTTTTTTGTAGACCTGCTATGTAATATAGATTTTTCAAAAAC AAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_007908
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).
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:	BC003433 , AAH03433
RefSeq Size:	3095 bp
RefSeq ORF:	2175 bp
Locus ID:	13631
UniProt ID:	O08796
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 (1) encodes the functional protein. Variants 1, 2 and 3 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>