

## Product datasheet for **RR210671**

### Eef2k (NM\_012947) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eef2k (NM_012947) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eef2k
Synonyms:	SMEF2K
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR210671 representing NM\_012947  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAGACGAAGACCTCATCTTCGCCTGGAAGTGTTGACGGTGGCGGTCTCCGGAGCTGGCCGCC  
 ATGGGGACTCTGACACAGACAGTGACGATGATGAGGGCTACTTCATCTGCCCCATCACTGATGACCACAT  
 GTCCAACCAGAATGTCAACTCCAAGGCCAGGGCTACTACAACAACCTACTGAAAACGGAGTGTGGCTCC  
 ACAGGGTCACCAGCCAGCTCCTTCCACTCAAGGAGGCCTGGAAGCATGCGATCGAGAAGGCCAAGCACA  
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 CCTGTCTAGAGAAGTCTGGGGATGAGAACATGAGTGATGTGACCTTTGACTCTCTGCCTTCTCCCCGTC  
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 TCCCGCTGCACCTGCCAGGCCCTCGGCCGTGGCCCTAGAAGTGCAAAGGTTAAATGCTCTGGACCTTG  
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 TGACAGGCAGTCCATGATTTTAGTGGCTCGAGCTTTTGACACCGCCCTGAACCTCAGCCCAGACAGGTGT  
 CAAGACTGGTCCGAAGCCTTACACTGGTACAACACGGCCCTGGAGACGACGGACTGCGATGAAGGCGGGG  
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 TGGATTTGGACTGGACAAGAACCCCAAGATCAGGAGACTTGTACACCCAGGCAGCCGAGGCAGCAATG  
 GAAGCCATGAAGGGCCGGCTAGCCAACCACTACTATGAGAAGGCGGAAGAGGCCTGGGCGCAATGGAGG  
 AA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR210671 representing NM\_012947  
 Red=Cloning site Green=Tags(s)

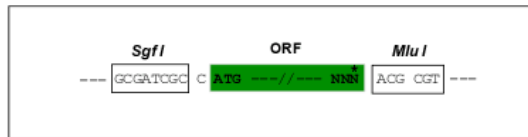
MADEDLIFRLEGVDGGSSGAGRHGSDTDSDDDEGYFICPITDDHMSNQNVNSKGGQGYNNLLKTECGS  
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 AMRECFRTKKLSNFLHAQHWWKASNYVAKRYLEPVDRSVYFEDVQLQMEAKLWGEEYNRHKPPKQVDIMQ  
 MCIIELKDRQGQPLFHLEHYIEGKYIKYNSNSGFVRDDNIRLTPQAFSHFTFERSGHQLIVVDIQVGD  
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 GTEEKCGSPRIRTLSGSRPPLLLRLSENSGDENMSDVTDFDLSLSSPSSATPHSQKLDHLHWPVFGDLN  
 MGRDHRMDNHRDSENSGSDGYPSEKSDLDPEPREHGHSNGNRRPEDEDSLSSGRVCVETWLLNP  
 SRLHLPRPSAVALVQRLNALDLGRKIGKSVLGVHLMVRYHEGGRFCEKDEEWDQESAIFHLEHAADL  
 GELEAIVGLGLMYSQLPHHILADVLSLEETEENKTKGFDYLLKAAEAGDRQSMILVARAFDTGLNLS  
 PDRCQDWSEALHWYNTALETTDCDEGGEYDGIQDEPQYALLAREAEMLLTGGFGLDKNPQRSGDLYTQAAEAM  
 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\_012947

**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\\_012947.2](#), [NP\\_037079.1](#)

**RefSeq Size:** 2175 bp

**RefSeq ORF:** 2175 bp

**Locus ID:** 25435

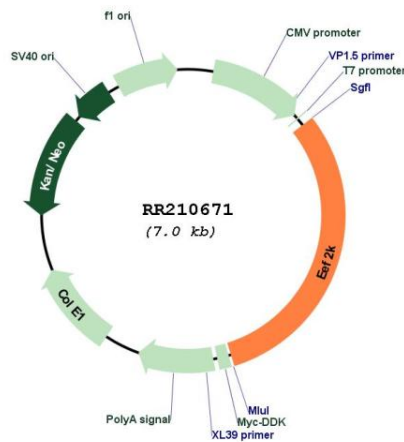
**UniProt ID:** [P70531](#)

**Cytogenetics:** 1q36

**MW:** 81.5 kDa

**Gene Summary:** catalyzes the phosphorylation of eukaryotic elongation factor 2 (eEF2) [RGD, Feb 2006]

**Product images:**



Circular map for RR210671