

## Product datasheet for MR212447

### Eef2kmt (NM\_027446) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eef2kmt (NM_027446) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eef2kmt
Synonyms:	5730409G15Rik; eEF2-KMT; Fam86; Fam86a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR212447 representing NM_027446 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCGCCTGAGGACCACGAGGGGGCCACGTCTCTGCTGCAGAGTTTCGAGCGCCGCTTCTGGCGGCTC  
GCGCGTGCCTCCTTTCCCTGGCAGAGCCTAGAAGAAAACTAAAGGACCCCTCGGGTTCTGAGCTGTT  
GCTGGCTATTCTGCAGAGGACTGTGAAGCACCCGTGTGTGTGCAGCACGGACCTTCTGTGAAGTATGCC  
CGCTGCTTCTCTCAAAGCTCATCAAAAAGCATGAGGCTGTACCCACGGAGCCTTTGGATGCACTGTATG  
AGGCGTTGGCAGAGGTTCTGATACCCAAGAGTCCACCCAGTCCACCGGAGCTATTTGCTGCCTTCAGG  
AAACTCAGTTACACTCTCTGAGAGCACTGCCATCGTGTCCCATGGCACCCAGGCTTGGTTACATGGGAC  
GCTGCTCTCTACCTGGCAGAATGGGCCATTGAGAACCAGCAGCCTTCACTGACAGGACTATCCTGGAGC  
TAGGCAGTGGAGCTGGCCTTACAGGCCTGGCAATTTGCAAGGCATGCTGCCCCAGAGCATAACATCTTCAG  
CGACTGTCATGCCAAGTGCTTGAGCAGCTCCGTGGAAACGTTCTCCTCAACGGCTTCTCCTTAGAGCCG  
CACACCCCATGACGCAGGCAGCTCGAAGGTGACAGTGGCTCAGCTGGACTGGGACGAGGTGACAGCCT  
CTCAGCTCTCTGCCTTCCAGGCAGATGTTGTCAATTGCAGCAGATGTAAGTACTGCTGGGAGATGACACT  
GTCAGTGGTCAGGTCCTGAAGATGCTCGAGGACTGCCAGAGGAAGAGCGCTCCTGATGTCTATGTAGCC  
TATACTATCCGCAGCCAGGACACAGGCAAGCTGTTTCATCGAAGAGCTGGACCGTGGAAATCTACTGGG  
AAGAGGTGCCCCCTCACACTGGCAAACTGTTCCCTTACGAAGAGCATTACGCCATCGTAATCCTGAAGCT  
GGTCTGACCAGTCGCCATGGTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR212447 representing NM\_027446  
 Red=Cloning site Green=Tags(s)

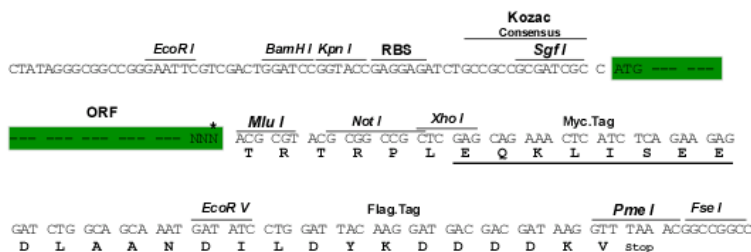
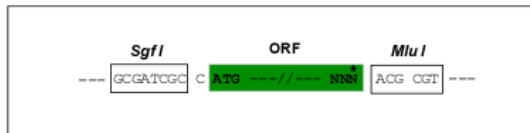
```
MAPEDHEGATSL LQSFERRFLAARALPSFPWQSLEEKLKDPSPGSELLLA I LQRTVKHPVCVQHGPSVKYA
RCFLSKL IKKHEAVPTEPLDAL YEALAEVLMTQESTQCHR SYLLPSGNSVTLSESTAI VSHGTTGLVTWD
AALYLAEWAIENPAAFTDR T ILEL GSGAGLTGLA ICKACCPRAYIFSDCHAQVLEQLRGNVLLNGF SLEP
HTPIDAGSSKVTVAQLDWDEVTASQLSAFQADV V IAAADVLYCWEMT LSLVRVLKMLEDCQRKSAPDVVYA
YTIRSQDTGKLFIEELDRAGIYWEEVPPHTGKLF P YEEHSAIVILKLV L T SRHG V
```

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\_027446

**ORF Size:** 1005 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\\_027446.2](#), [NP\\_081722.1](#)

**RefSeq Size:** 2140 bp

**RefSeq ORF:** 1008 bp

**Locus ID:** 70511

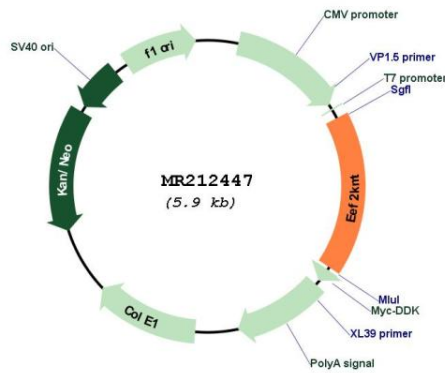
**UniProt ID:** [Q3UZW7](#)

**Cytogenetics:** 16 2.51 cM

**MW:** 37.4 kDa

**Gene Summary:** Catalyzes the trimethylation of eukaryotic elongation factor 2 (EEF2) on 'Lys-525'.  
[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR212447