

## Product datasheet for **MR203036**

### Eef1akmt2 (NM\_028095) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eef1akmt2 (NM_028095) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eef1akmt2
Synonyms:	2010208K18Rik; Mettl10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203036 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACGCGGATGCTGAGGGCCACAGCGGTGCTGTGGTCCCCGCGCAATCTCCAGAGGGCAGTTCGCGG  
CGGATGACTTCGTCGCTCCGCGCTGGGGACACGAGAGCATTGGGATGCTGTTTATGAGAGAACTGAG  
AACATTCCAAGAATATGGGGATACAGGAGAAATCTGGTTGGGGAAGAGAGTATGAACCGACTAATACGG  
TGGATGCAGAAACACAAGATCCCATTGGATGCCTCAGTGCTTGATATTGGAAGTGGAAATGGTGTTC  
TGGTTGAACCTGTGAAACATGGTTTCTCTGATATAACTGGGATTGATTATTCTCCTTCTGCAATTAAGCT  
TTCTGCAAGTATTTAGAGAAAGAAGGGCTATCTAACATTAACCTGAAGGTAGAAGACTTTTTGAATCCC  
TCTACAAAGCTTTCTGGATTTTCATGTTTGTGTGACAAAGGGACTTACGATGCCATAAGTCTTAATCCTG  
ACAATGCAATTGAGAAGAGGAAGCAGTATGTGATGTCTCTCCAGGGTGTGGAAGTAAAGGCTTTTT  
TCTAATAACCTCATGTAATTGGACCAAGGCAGAGTTGCTAGATGCATTAGTGAAGGATTTGAACTTTT  
GAAGAGCTGCCAACCCAAGTTCAGCTTTGGAGGTAGATCTGGAACACTGTAGCAGCTTTGGTTTTTC  
AAAAAGGGGGACTTCTTGGACAAAATCAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203036 protein sequence  
 Red=Cloning site Green=Tags(s)

MNADAEGHSGAVVPAQSPGSSAADDVFPALGTREHWDVYERELRTFQEYGDTEIWFGEESMNRLIR  
 WMQKHKIPLDASVLDIGTGNGVFLVELVKHGFSDITGIDYSPSAIKLSASILEKEGLSNINLKVEDFLNP  
 STKLSGFHVCVDKGTYDAISLNPDAIEKRKQYVMSLSRVLEVKGFFLITSCNWTKAELLDASEGFELF  
 EELPTPKFSFGGRSGNTVAALVFQKRGTSLDKIS

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\_028095

**ORF Size:** 735 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\\_028095.1](#), [NP\\_082371.1](#)

**RefSeq Size:** 1097 bp

**RefSeq ORF:** 735 bp

**Locus ID:** 72096

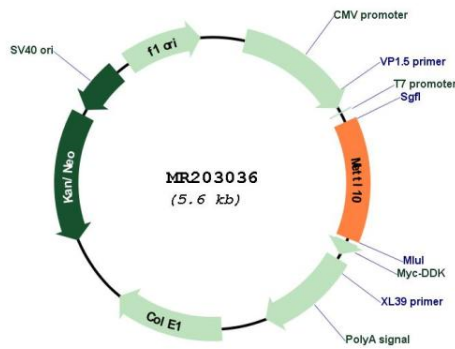
**UniProt ID:** [Q9D853](#)

**Cytogenetics:** 7 F3

**MW:** 26.9 kDa

**Gene Summary:** Protein-lysine methyltransferase that selectively catalyzes the trimethylation of EEF1A at 'Lys-318'. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR203036