

## Product datasheet for **RC204397**

### **KIAA0859 (METTL13) (NM\_014955) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KIAA0859 (METTL13) (NM_014955) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EEF1AKNMT
Synonyms:	5630401D24Rik; CGI-01; DFNB26; DFNB26M; DFNM1; feat; KIAA0859; METTL13
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RC204397 representing NM\_014955  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAACCTCTTACCTAAAAGTTCAGGGAGTTGGCTCCGTTGACTATTGGGAGAAGTTCTCCAGCAGC  
GAGGAAAAGAAAGCTTTCGAGTGGTATGGAACCTACCTGGAAGTGTGCGGGGTGCTACATAAATATATCAA  
GCCAGGAAAAGGTGCTGGTGATTGGGTGGCAACTCAGAAGTGTGAGCAACTGTATGATGTGGGC  
TATCGGGATATAGTGAACATCGACATCAGTGTGGTGTGTCATCAAGCAAATGAAGGAATGTAATGCCACCC  
GACGGCCCGAGATGAGCTTCTTGAAGATGGACATGACGCAGATGGAGTTTCTGTATGCCTCGTTCCAGGT  
GGTGTGGACAAGGGCACCTGGATGCTGTCTGACAGATGAGGAAGAGAAGACCTTACAACAGGTGGAC  
AGGATGCTGGCTGAGGTTGGCCGTCTGTCAGGTGGCGGTGCTATCTCTGCATCTCCCTGGCTCAGG  
CTCACATCTGAAGAAAGCAGTGGGCCACTTCTCCGGGAGGGGTGGATGGTGGGGTGCACCAAGTGGC  
CAACAGCCAGGACCAGGTGTTGAAGCAGAGCCTCAGTTCTCCTTGCCTGTCTTTGCCTTCATCATGACC  
AAGTTTCAGGCCAGTCCCTGGCTCTGCCCTTCAGATCTTTGAGCTGTGTGCTCAGGAGCAGCGCAAGCCTG  
TGGCGCTGGAGAGTGCCGAGCGGTGGCCGAGGCGGTGCAGGAGCGACAGCAGTATGCCTGGCTGTGCAG  
CCAGCTGCGCCGAAGGCCAGGCTGGGGAGTGTGTCTCTGGACTTGTGCGATGGGGACACGGGGGAGCCA  
CGCTACACCTCCACGTGGTGGACAGCCCCACTGTGAAACCATCGCGGGACAATCATTTTTCGATTTTCA  
TCATCCCTCAGGGCCGGGAGACCAGTGGCTCTTTGGCATGGATGAGGGCCGAAACAGCTGGCGGCCAG  
TGCTGGCTCAGGAGGTTGATTACAGTGGCCCTTACCCAGGTGAGCAGTATGAAAGCATGGACCACATC  
CAAGCTGAGCTGTCGGCTAGAGTCATGGAGCTGGCCCCAGCTGGGATGCCACCCAGCAGCAGGTCCTCT  
TTCTGTCTGTGGTGGGACATTGGGGTCCGGACCGTTCAGCACCAAGACTGCAGCCCCTTGAGCGGTGA  
CTATGTCATTGAGGATGTGCAAGGGGATGACAAGCGATACTTCCGTCGACTGATCTTCTCAGCAACAGG  
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ACAGGAAGAAGCAGCGGCTGCTGATGCGGAGGACCTCCCTGCAGCCCCGGGGCAGTCCATTGATAAGAG  
TTACCTGTGTTGTGAACACCACAAGCCATGATCGCTGGCCTTGCCTGCTGAGAAACCCAGAGCTACTC  
CTAGAGATCCCACTGGCATTGTTGGTGGTAGGCCCTGGCGGGGGCAGCCTCCCCCTTTTGTCCACGATC  
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GGAGGAGGAGAAGCACGGCCTTGTACGATGTCATAATGTTTGTGTTGACAGTAAGGACCAACTGGG  
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TGAAGGTGTTTTTATTCTCAACCTGTGTGCCGAGACTTGGGGCTAAAAGACTCAGTGTGGCTGGGCTC  
AAGGCAGTGTCCCTCCTATATGTCCGGCAATTGAGGGTGAAGTGAATGAGATCCTGTTCTGTGACG  
TGCACCTGAGCAAAAATTGCCACACCAGAGCTCCTAGAAAACAGCCAGGCTTTGGAGCGGACCCTGAG  
GAAGCCTGGGAGGGGTTGGGATGACACGTATGTCTGTGATGATGCTCAAGACGGTGAATAATTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC204397 representing NM\_014955  
 Red=Cloning site Green=Tags(s)

MNLLPKSSREFGSVDYWEKFFQQRGKKAFEWYGTYLELCGVLHKYIKPREKVLVIGCGNSELSEQLYDVG  
 YRDIVNIDISEVVIKQMKECNATRRPQMSFLKMDMTQMEFPDASFQVVLDKGTLDAVLTDEEEKTLQQVD  
 RMLAEVGRVQLVGGRYLCISLAQAHILKKAUGHFSREGWMVRVHQVANSQDQVLEAEPQFSLPVFAFIMT  
 KFRPVPGSALQIFELCAQEQRKPVRLSAERLAEAVQERQYAWLCSQLRRKARLGSVSLDLCGDGTGEP  
 RYTLHVVDSPVTKPSRDNHFAIFIIPQGRETEWLFMGDEGRKQLAASAGFRRLITVALHRGQQYESMDHI  
 QAELSARVMELAPAGMPTQQQVPFLSVGGDIGVRTVQHQCSPVSGDYVIEDVQGGDKRYFRRLIFLSNR  
 NVYQSEARLLKDVSHKAQKRKKDRKKQRPADAEDLPAAPGQSIDKSYLCEHHKAMIAGLALLRNPELL  
 LEIPLALLVVGLGGSLPLFVHDHFPKSCIDAVEIDPSMLEVATQWFGFSQSDRMKVHIADGLDYIASLA  
 GGGEARPCYDVMFDVSKDPTLGMSCPPPAFVEQSFLQVKVILTPEGVFI LNLVCRDLGLKDSVLAGL  
 KAVFPLL YVRIEIEGVNEILFCQLHPEQKLATPELLETAQALERTLRKPGRGWDDTYVLSMDLKTVKIV

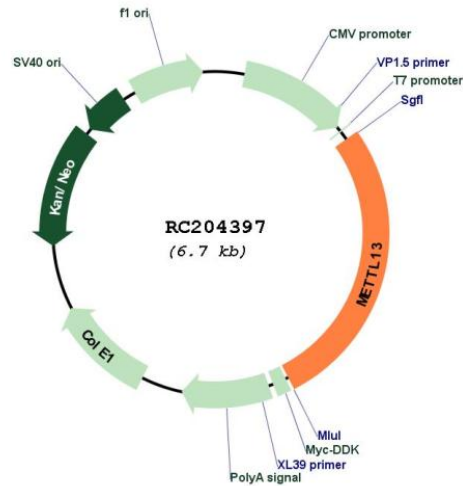
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_014955

**ORF Size:** 2100 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\\_014955.1](#), [NM\\_014955.2](#), [NP\\_055770.1](#)

**RefSeq Size:** 3096 bp

RefSeq ORF:	1842 bp
Locus ID:	51603
UniProt ID:	<a href="#">Q8N6R0</a>
Cytogenetics:	1q24.3
Protein Families:	Druggable Genome
MW:	78.8 kDa
Gene Summary:	Dual methyltransferase that catalyzes methylation of elongation factor 1-alpha (EEF1A1 and EEF1A2) at two different positions, and is therefore involved in the regulation of mRNA translation (PubMed:30612740, PubMed:30143613). Via its C-terminus, methylates EEF1A1 and EEF1A2 at the N-terminal residue 'Gly-2' (PubMed:30143613). Via its N-terminus dimethylates EEF1A1 and EEF1A2 at residue 'Lys-55' (PubMed:30612740, PubMed:30143613). Has no activity towards core histones H2A, H2B, H3 and H4 (PubMed:30612740). [UniProtKB/Swiss-Prot Function]