

Product datasheet for **RG221362**

KIAA0859 (METTL13) (NM_015935) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA0859 (METTL13) (NM_015935) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIAA0859
Synonyms:	5630401D24Rik; CGI-01; DFNB26; DFNB26M; DFNM1; feat; KIAA0859; METTL13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG221362 representing NM_015935
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACCTCTTACCTAAAAGTTCAGGGAGTTGGCTCCGTTGACTATTGGGAGAAGTCTTCCAGCAGC
GAGGAAAAGAAAGCTTTCGAGTGGTATGGAACCTACCTGGAACGTGCGGGGTGCTACATAAATATATCAA
GCCAGGAAAAGGTGCTGGTGATTGGGTGGCAACTCAGAAGTGAAGGAAATGAATGCCACCC
TATCGGGATATAGTGAACATCGACATCAGTGAAGTTGTCATCAAGCAAATGAAGGAATGAATGCCACCC
GACGGCCCGAGATGAGCTTCTTGAAGATGGACATGACGCAGATGGAGTTTCTGATGCCTCGTTCCAGGT
GGTGTGGACAAGGGCACCCTGGATGCTGTCTGACAGATGAGGAAGAGAAGACCTTACAACAGGTGGAC
AGGATGCTGGCTGAGGTTGGCCGTCTGTCAGGTGGCGGTGCTATCTCTGCATCTCCCTGGCTCAGG
CTCACATCTGAAGAAAGCAGTGGGCCACTTCTCCGGGAGGGGTGGATGGTGAAGGTGCACCAAGTGGC
CAACAGCCAGGACCAGGTGTTGAAGCAGAGCCTCAGTTCTCCTTGCCTGTCTTTCCTTATCATGACC
AAGTTTCAGGCCAGTCCCTGGCTCTGCCCTTCAGATCTTTGAGCTGTGTGCTCAGGAGCAGCGCAAGCCTG
TGCGGCTGGAGAGTGCCGAGCGGTGGCCGAGGCGGTGCAGGAGCGACAGCAGTATGCCTGGCTGTGCAG
CCAGCTGCGCCGAAGGCCAGGCTGGGGAGTGTCTCTGGACTTGTGCGATGGGGACACGGGGAGCCA
CGCTACACCCTCCAGTGGTGGACAGCCCCACTGTGAAACCATCGCGGACAATCATTTCGATTTTCA
TCATCCCTCAGGGCCGGGAGACCAGTGGCTCTTTGGCATGGATGAGGGCCGAAACAGCTGGCGGCCAG
TGCTGGCTCAGGAGGTTGATTACAGTGGCCCTTACCGAGGTGAGCAGTATGAAAGCATGGACCACATC
CAAGCTGAGCTGTCGGCTAGAGTCATGGAGCTGGCCCCAGCTGGGATGCCACCCAGCAGCAGGTCCCCT
TTCTGTCTGTGGTGGGACATTGGGGTCCGGACCGTTCAGCACCAGACTGCAGCCCCTTGAGCGGTGA
CTATGTCATTGAGGATGTGCAAGGGGATGACAAGCGATACTTCCGTCGACTGATCTTCTCAGCAACAGG
AATGTGGTGCAGTCCGAAGCCAGGTTGCTGAAGGATGTGTCTCACAAGCCAGAAAGCGGAAAAAGG
ACAGGAAGAAGCAGCGGCTGCTGATGCGGAGGACCTCCCTGCAGCCCCGGGCGAGTCCATTGATAAGAG
TTACCTGTGTTGTGAACACCACAAGCCATGATCGCTGGCCTTGCCTGCTGAGAAACCCAGAGCTACTC
CTAGAGATCCCCTGGCATTGTTGGTGGTAGGCCCTGGCGGGGGCAGCCTCCCCCTTTTGTCCACGATC
ATTTTCAAAGTCTGCATTGATGCTGTGGAGATCGATCCCTCCATGTTGGAAGTGGCCACCCAGTGGTT
TGGCTTCTCCAGAGTGACCGAATGAAGTCCACATTGCAGATGGCCTGGACTATATCGCCAGCTTGGCA
GGAGGAGGAGAAGCAGGCTTGTACGATGTCATAATGTTTGTGTTGACAGTAAGGACCAACACTGG
GAATGAGTTGTCGCCCCAGCATTGTTGGAGCAATCTTTCTACAGAAGGTTAAAAGCATCTTGACTCC
TGAAGGTGTTTTATTCTCAACCTGTGTGCCGAGACTTGGGGCTAAAAGACTCAGTGTGGCTGGGCTC
AAGGCAGTGTCCCCCTCTATATGTCCGGCAATTGAGGGTGAAGTGAATGAGATCCTGTTCTGTGACG
TGCACCCTGAGCAAAAACCTTGCCACACCAGAGCTCCTAGAAAACAGCCAGGCTTTGGAGCGGACCCTGAG
GAAGCCTGGGAGGGGTTGGGATGACACGTATGTCTGTGATGATGCTCAAGACGGTGAATAATTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG221362 representing NM_015935
 Red=Cloning site Green=Tags(s)

MNLLPKSSREFGSVDYWEKFFQQRGKKAFEWYGTYLELCGVLHKYIKPREKVLVIGCGNSELSEQLYDVG
 YRDIVNIDISEVVIKQMKECNATRRPQMSFLKMDMTQMEFPDASFQVVLDKGTLDAVLTDEEEKTLQQVD
 RMLAEVGRVLQVGGRYLCISLAQAHILKKAUGHFSREGWMVRVHQVANSQDQVLEAEPQFSLPVFAFIMT
 KFRPVPGSALQIFELCAQEQRKPVRLSAERLAEAVQERQQYAWLCSQLRRKARLGSVSLDLCGDGTGEP
 RYTLHVVDSPYKPSRDNHFAIFIIPQGRETEWLFMDEGRKQLAASAGFRRLITVALHRGQQYESMDHI
 QAELSARVMELAPAGMPTQQQVPFLSVGGDIGVRTVQHQCSPVSGDYVIEDVQGDGDKRYFRRLIFLSNR
 NVVQSEARLLKDVSHKAQKRKKDRKKQRPADAEDLPAAPGQSIDKSYLCCHEHKAMIAGLALLRNPELL
 LEIPLALLVVGLGGSLPLFVHDHFPKSCIDAVEIDPSMLEVATQWFGFSQSDRMKVHIADGLDYIASLA
 GGGEARPCYDVMFDDVSKDPTLGMSCPPPAFVEQSFLQVKVILTPEGVFI LNLVCRDLGLKDSVLAGL
 KAVFPLL YVRIEIEGVNEILFCQLHPEQKLATPELLETAQALERTLRKPGRGWDDTYVLSMMLKTVKIV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015935

ORF Size: 2097 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_015935.5](#)

RefSeq Size: 3421 bp

RefSeq ORF: 2100 bp

Locus ID: 51603

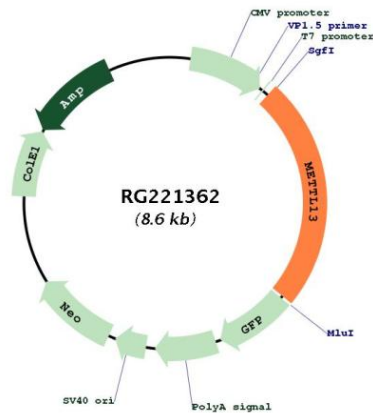
UniProt ID: [Q8N6R0](#)

Cytogenetics: 1q24.3

Protein Families: Druggable Genome

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]

Product images:



Circular map for RG221362