

Product datasheet for **SC121821**

KIAA0859 (METTL13) (NM_014955) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA0859 (METTL13) (NM_014955) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIAA0859
Synonyms:	5630401D24Rik; CGI-01; DFNB26; DFNB26M; DFNM1; feat; KIAA0859; METTL13
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_014955, the custom clone sequence may differ by one or more nucleotides

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ATGAAGGAATGTAATGCCACCCGACGGCCCCAGATGAGCTTCTTGAAGATGGACATGACGCAGATGGAGT
TTCCTGATGCCTCGTTCCAGGTGGTGTGGACAAGGGCACCTGGATGCTGTCTGACAGATGAGGAAGA
GAAGACCTTACAACAGGTGGACAGGATGCTGGCTGAGGTTGGCCGTGTCCTGCAGGTGGCGGTGCGTAT
CTCTGCATCTCCCTGGCTCAGGCTCACATCCTGAAGAAAGCAGTGGGCCACTTCTCCCGGAGGGGTGGA
TGGTGAGGGTGCACCAAGTGCCAAACAGCCAGGACCAGGTGTTGGAAGCAGAGCCTCAGTTCCTTGCCT
TGTCTTTGCCTTCATCATGACCAAGTTCAGGCCAGTCCCTGGCTCTGCCCTTCAGATCTTTGAGCTGTGT
GCTCAGGAGCAGCGCAAGCCTGTGCGGCTGGAGAGTGCCGAGCGGCTGGCCGAGGCGGTGCAGGAGCGAC
AGCAGTATGCCTGGCTGTGCAGCCAGCTGCGCCGCAAGGCCAGGCTGGGGAGTGTGTCTCTGGACTTGTG
CGATGGGGACACGGGGAGCCACGCTACACCCTCCACGTGGTGGACAGCCCCACTGTGAAACCATCGCGG
GACAATCATTTTTCGATTTTTCATCATCCCTCAGGGCCGGGAGACCAGTGGCTCTTTGGCATGGATGAGG
GCCGAAAACAGCTGGCGGCCAGTGTGGCTTTCAGGAGTTGATTACAGTGGCCCTTCACCGAGGTGACGA
GTATGAAAGCATGGACCACATCCAAGCTGAGCTGTGCGCTAGAGTCATGGAGCTGGCCCCAGCTGGGATG
CCCACCCAGCAGCAGGTCCCCTTCTGTCTGTGGGTGGGGACATTGGGGTCCGGACCGTTTTCAGCACAAG
ACTGCAGCCCCTTTCAGCGGTGACTATGTCAATTGAGGATGTGCAAGGGGATGACAAGCGATACTTCCGTCG
ACTGATCTTCTCAGCAACAGGAATGTGGTGCAGTCCGAAGCCAGGTTGCTGAAGGATGTGTCTCACAAA
GCCCAGAAGAAGCGAAAAAGGACAGGAAGAAGCAGCGGCTGCTGATGCGGAGGACCTCCCTGCAGCCC
CGGGCAGTCCATTGATAAGAGTTACCTGTGTTGTGAACACCACAAGCCATGATCGTGGCCTTGCCT
GCTGCAAAACCCAGAGCTACTCCTAGAGATCCCCTGTCATTGTTGGTGGTAGGCCTGGCGGGGGCAGC
TCCCCCTCTTTGTCCACGATCATTTTCAAAGTCTCCTGCATTGATGCTGTGGAGATCGATCCCTCCATGT
TGGAAAGTGGCCACCCAGTGGTTTGGCTTCTCCAGAGTGACCGAATGAAGGTCCACATTGCAGATGGCCT
GGACTATATCGCCAGCTTGGCAGGAGGAGAGAAGCACGGCCTTCTACGATGTCATAATGTTTGTGTT
GACAGTAAAGACCAACTGGGAATGAGTTGTCCGCCCCAGCATTGTTGGAGCAATCTTTTCTACAGA
AGGTTAAAAGCATCTTGACTCCTGAAGGTGTTTTTATTCTCAACCTTGTGTGCCGAGACTGGGGCTAAA
AGACTCAGTGTGGTGGGCTCAAGGCAGTGTCCCTCCTATATGTCGGCGAATTGAGGGTGAAGTG
AATGAGATCCTGTTCTGTGAGTGCACCCTGAGCAAAAATTGCCACACCAGAGCTCCTAGAAACAGCCC
AGGCTTTGGAGCGGACCCTGAGGAAGCCTGGGAGGGGTGGGATGACACGTATGCTTGTGATGATGCT
CAAGACGGTGAAAATTGTGTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014955 unedited

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TTGTAATACGACTCACTATAGGGCGGCNCGCAATTCGCACGAGGGAAAAGTGTGGTGA
TTGGGTGTGGCAACTCAGAACTGAGTGAGCAACTGTATGATGTGGGCTATCGGGATATAG
TGAACATCGACATCAGTGAAGTTGTCATCAAGCAAATGAAGGAATGTAATGCCACCCGAC
GGCCCCAGATGAGCTTCTTGAAGATGGACATGACGCAGATGGAGTTTCTGATGCCTCGT
TCCAGGTGGTGTGGACAAGGGCACCTGGATGCTGTCTGACAGATGAGGAAGAGAAGA
CCTTACAACAGGTGGACAGGATGCTGGCTGAGGTTGGCCGTGCTCAGGTGGCGGTC
GCTATCTCTGCATCTCCCTGGCTCAGGCTCACATCCTGAAGAAAGCAGTGGGCCACTTCT
CCCGGGAGGGGTGGATGGTGAAGGTGCACCAAGTGCCAAACAGCCAGGACCAGGTGTTGG
AAGCAGAGCCTCAGTTCTCCTTGCCTGTCTTTGCCTTCATCATGACCAAGTTCAGGCCAG
TCCCTGGCTCTGCCCTTCAGATCTTTGAGCTGTGTGCTCAGGAGCAGCGCAAGCCTGTGC
GGCTGGAGAGTGCCGAGCGGGCTGCCGANGCGGTGCANGAGCGACAGCAGTATGCCCTGG
CTGTGCAGCCAGCTGCGCCGAGGGCCAGCTGGGGAAAGTGTGCTCTGGACTTGTGCGAT
GGGGACACGGGGGAGCCACGCTACACCCTCCACGTGTGGACAGCCCCACTGTGAAACCAT
CGCGGGACAATCATTTTTCGATTTTTCATCATCCCTCAAGGCCGGGAGACCAATGCCTCT
TTGCATGGGTTGAAGGGCCGAAACAACTGGGGGCCATGGCTGGTTTTAAAAGGTTGATTA
CCGGGGCCTTTTACAAGGA
    
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Restriction Sites:

ECoRI-NOT

ACCN:	NM_014955
Insert Size:	3000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_014955.2 , NP_055770.1
RefSeq Size:	3096 bp
RefSeq ORF:	1842 bp
Locus ID:	51603
UniProt ID:	Q8N6R0
Cytogenetics:	1q24.3
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an internal segment in the 5' region and uses a downstream AUG start codon, as compared to variant 1. The encoded isoform 2 has a shorter N-terminus, as compared to isoform 1.</p>