

Product datasheet for **SC323939**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_014955.2
 CACTGCAGTGTCCCGGAGCTGCGTGTGGTGGGCAAGCTCCTCAAATGGTATCTCACAGG
 GAATAGGGGAGTCTTGAAAACGCAGCTTCGGCAGTAGGAACATGAACCTTTACCTAAAA
 GTTCCAGGGAGTTTGGCTCCGTTGACTATTGGGAGAAGTTCTCCAGCAGCGAGGAAAGA
 AAGCTTTCGAGTGGTATGGAACCTACCTGGAACGTGCGGGGTGCTACATAAATATATCA
 AGCCCAGGGAAAAGTGGTGGTATTGGGTGTGGCAACTCAGAAGTGAAGTGAAGCAACTGT
 ATGATGTGGGCTATCGGGATATAGTGAACATCGACATCAGTGAAGTGTGATCAAGCAAA
 TGAAGGAATGTAATGCCACCCGACGGCCCGAGATGAGCTTCTTGAAGATGGACATGACGC
 AGATGGAGTTTCTGATGCCTCGTTCAGGTGGTGTGGACAAGGGCACCTGGATGCTG
 TCCTGACAGATGAGGAAGAGAAGACCTTACAACAGGTGGACAGGATGCTGGCTGAGGTTG
 GCCGTGTCTGCAGGTGGGCGGTCGCTATCTCTGCATCTCCCTGGCTCAGGCTCACATCC
 TGAAGAAAGCAGTGGCCACTTCTCCCGGAGGGGTGGATGGTGAAGGTGCACCAAGTGG
 CCAACAGCCAGGACCAGGTGTTGGAAGCAGAGCCTCAGTCTCCTTGCCTGTCTTTGCCT
 TCATCATGACCAAGTTCAGGCCAGTCCCTGGCTCTGCCCTCAGATCTTTGAGCTGTGTG
 CTCAGGAGCAGCGCAAGCCTGTGCGGCTGGAGAGTCCGAGCGGCTGGCCGAGGCGGTGC
 AGGAGCGACAGCAGTATGCCTGGCTGTGCAGCCAGCTGCCCGCAAGGCCAGGCTGGGGA
 GTGTGTCTCTGGACTTGTGCGATGGGGACCGGGGAGCCACGCTACACCCTCCACGTGG
 TGGACAGCCCCACTGTGAAACCATCGCGGGACAATCATTTTTCGATTTTTCATCATCCCTC
 AGGGCCGGGAGACCGAGTGGCTCTTTGGCATGGATGAGGGCCGAAACAGCTGGCGGCCA
 GTGCTGGCTTCAGGAGTTGATTACAGTGGCCCTTACCAGGTCAGCAGTATGAAAGCA
 TGGACCACATCCAAGTGAAGTGTGCGCTAGAGTATGGAGTGGCCCGAGCTGGGATGC
 CCACCCAGCAGCAGTCCCTTTCTGTCTGTGGTGGGGACATTGGGGTCCGACCGTTC
 AGCACCAGACTGCAGCCCTTGGAGCGGTACTATGTCATTGAGGATGTGCAAGGGGATG
 ACAACCGATACTTCCGTGACTGATCTTCTCAGCAACAGGAATGTGGTGCAGTCCGAAG
 CCAAGTTGCTGAAGGATGTGTCTCACAAGCCAGAAAGCGGAAAAAGGACAGGAAGA
 AGCAGCGGCTGTGATGCGGAGGACCTCCCTGCAGCCCGGGGAGTCCATTGATAAGA
 GTTACCTGTGTTGTAACACCACAAAGCCATGATCGCTGGCCTTGGCCTGCTGAGAAACC
 CAGAGCTACTCTAGAGATCCCACTGGCATTGTTGGTGGTAGGCCTGGCGGGGGCAGCC
 TCCCCCTCTTTGTCCACGATCATTTTCAAAGTCTGCATTGATGCTGTGGAGATCGATC
 CCTCCATGTTGGAAGTGGCCACCAGTGGTTTGGCTTCTCCAGAGTGACCGAATGAAGG
 TCCACATTGCAGATGGCCTGGACTATATCGCCAGCTTGGCAGGAGGAGGAGAAGCACGGC
 CTTGCTAGCATGCATAATGTTTGTGATGTTGACAGTAAGGACCCAACTGGGAATGAGTT
 GTCCGCCCCCAGCATTTGTGGAGCAATCTTTTCTACAGAAGGTTAAAAGCATCTTGACTC
 CTGAAGGTGTTTTATTCTCAACCTTGTGTGCCGAGACTTGGGGCTAAAAGACTCAGTGC
 TGGCTGGGCTCAAGGCAGTGTTCCTCCCTATATGTCCGGCGAATTGAGGGTGAAGTGA
 ATGAGATCCTGTCTGTGAGTGCACCTGAGCAAAAACCTGGCCACACCAGAGCTCCTAG
 AAACAGCCAGGCTTTGGAGCGGACCCTGAGGAAGCCTGGGAGGGGTGGGATGACACGT
 ATGTCTTGTGAGATATGCTCAAGACGGTGAATAATGTGTGACTGCTTAGGCCAAGCAGCC
 CTCCTGCCTAGACTGACCTTGGACTCCAGCCTGCCAGAGAATGAAGAAATACAACGCC
 AGTACTTTTGAAGCTTCGATTTTTCTTGGTTTACACTCAGCTACATGTGACCTCCAGC
 TTGGTGAAGTTGCTGAAGATTAGGGAAAATAAAAATGTCTTCCAAAAA
 AAAAAAAAAAAAAAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_014955

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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_014955.2</u> , <u>NP_055770.1</u>
RefSeq Size:	3096 bp
RefSeq ORF:	1842 bp
Locus ID:	51603
UniProt ID:	<u>Q8N6R0</u>
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>