

Product datasheet for **SC114533**

KIAA0859 (METTL13) (NM_015935) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA0859 (METTL13) (NM_015935) 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-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC114533 sequence for NM_015935 edited (data generated by NextGen Sequencing)

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ATGAACCTCTTACCTAAAAGTTCCAGGGAGTTTGGCTCCGTTGACTATTGGGAGAAGTTC
TTCCAGCAGCGAGGAAAGAAAGCTTTTCGAGTGGTATGGAACCTACCTGGAACCTGTGCGGG
GTGCTACACAAATATATCAAGCCAGGGAAAAGGTGCTGGTATTGGGTGTGGCAACTCA
GAACTGAGTGAGCAACTGTATGATGTGGCTATCGGGATATAGTGAACATCGACATCAGT
GAGGTTGTGCATCAAGCAAATGAAGGAATGTAATGCCACCCGACGGCCCCAGATGAGCTTC
TTGAAGATGGACATGACGCAGATGGAGTTTCTGATGCCTCGTTCCAGGTGGTGTGGAC
AAGGGCACCTGGATGCTGTCCTGACAGATGAGGAAGAGAAGACCTTACAACAGGTGGAC
AGGATGCTGGCTGAGGTTGGCCGTGTCCTGCAGGTGGGCGGTGCGTATCTCTGCATCTCC
CTGGCTCAGGCTCACATCCTGAAGAAAGCAGTGGGCCACTTCTCCGGGAGGGGTGGATG
GTGAGGGTGCACCAAGTGGCCAACAGCCAGGACCAGGTGTTGGAAGCAGAGCCTCAGTTC
TCCTTGCTGTCTTTGCCTTCATCATGACCAAGTTCAGGCCAGTCCCTGGCTCTGCCCTT
CAGATCTTTGAGCTGTGTGCTCAGGAGCAGCGCAAGCCTGTGCGGCTGGAGAGTGCCGAG
CGGCTGGCCGAGGCGGTGCAGGAGCGACAGCAGTATGCCTGGCTGTGCAGCCAGTGCGC
CGCAAGGCCAGGCTGGGAGTGTGTCTCTGGACTTGTGCGATGGGGACACGGGGGAGCCA
CGCTACACCTCCACGTGGTGGACAGCCCCACTGTGAAACCATCGCGGGACAATCATTTT
GCGATTTTCATCATCCCTCAGGGCCGGGAGACCGAGTGGCTCTTTGGCATGGATGAGGGC
CGGAAACAGCTGGCGGCCAGTGTGGCTTCAGGAGGTTGATTACAGTGGCCCTTCACCGA
GGTCAGCAGTATGAAAGCATGGACCACATCCAAGCTGAGCTGTGCGGCTAGAGTCATRGAG
CTGGCCCCAGCTGGGATGCCACCCAGCAGCAGTCCCCCTTCTGTCTGTGGGTGGGGAC
ATTGGGGTCCGGACCGTTCAGCACCAAGACTGCAGCCCCTTGAGCGGTGACTATGTCATT
GAGGATGTGCAAGGGGATGACAAGCGATACTTCGTCGACTGATCTTCTCAGCAACAGG
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CGGAAAAAGGACAGGAAGAAGCAGCGGCCTGCTGATGCGGAGGACCTCCCTGCAGCCCCG
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GATGCTGTGGAGATCGATCCCTCCATGTTGGAAGTGGCCACCCAGTGGTTTGGCTTCTCC
CAGAGTGACCGAATGAAGGTCCACATTGCAGATGGCCTGGACTATATCGCCAGCTTGGCA
GGAGGAGGAGAAGCACGGCCTTGCTAYGATGTCATAATGTTTGATGTTGACAGTAAGGAC
CCAACACTGGGAATGAGTTGTCCGCCCCAGCATTGTGGAGCAATCTTTTCTACAGAAG
GTTAAAAGCATCTTGACTCCTGAAGGTGTTTTATTCTCAACCTTGTGTGCCGAGACTTG
GGGCTAAAAGACTCAGTGTGGCTGGGCTCAAGGCAGTGTCCCCCTCTATATGTCGGG
CGAATTGAGGGTGAAGTGAATGAGATCCTGTTCTGTGACGCTGCACCCTGAGCAAAAACCT
GCCACACCAGAGCTCCTAGAAACAGCCAGGCTTTGGAGCGGACCCTGAGGAAGCCTGGG
AGGGGTTGGGATGACACGTATGTCTTGTGAGATGCTCAAGACGGTAAAATTGTGTGA
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Clone variation with respect to NM_015935.4

129 t=>c;1077 g=>r;1707 c=>y

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015935 unedited
 GTAACACTGTTTTATCCACTTTTATAGGCGGCCGCAATTCGCACGAGGGGCAAGCG
 TGTGTGAGATTCACTGGTCCATGCGTGCCTTTGTCGTGTAAGGGTCATTCTGGGGTTG
 GAGTGGGGGAACAATCAATGTGGCTGTTTTCCGTGGAAAGAATCCCCTGCAGTGT
 CCGGAGCTGCGTGTGGTGGCAAGCTCCTCAGATGGTATCTCACAGGAATAGGGGAGT
 CTTGAAAACGCAGCTTCGGCAGTAGGAACATGAACCTTACCTAAAAGTCCAGGGAGT
 TTGGCTCCGTTGACTATTGGGAGAAGTTCTCCAGCAGCGAGGAAAGAAGCTTTGAGT
 GGTATGGAACCTACCTGGAACCTGTGCGGGTGCTACACAAATATATCAAGCCAGGGAAA
 AGGTGCTGGTGATTGGGTGGCAACTCAGAACTGAGTGAGCAACTGTATGATGTGGCT
 ATCGGGATATAGTGAACATCGACATCAGTGAGGTTGTCATCAAGCAAATGAAGGAATGTA
 ATGCCACCCGACGGCCCCAGATGAGCTTCTTGAAGATGGACATGACGCAGATGGAGTTTC
 CTGATGCCTCGTCCAGGTGGTGTGGACAAGGGCACCTGGATGCTGCTCCTGACAGATG
 AGGAAGAGAAGACCTTACAACAGGTGGACAGGATGCTGGCTGAGGTTGGCCGTGCTCTGC
 ANGTGGGCGGTGCTATCTCTGCATCTCCCTGGCTCANGCTCACATCCTGAAGAAAGCAG
 TGGGCCACTTCTCCNCGGAGGGGTGGATGGTGAGGGTGACCAAGTGCCAAACAGCCAGG
 ACCAGGTGTTGGAAGCAGAGCCTCAGTTCTTCTGCCTGTCTTTGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015935 unedited
 TGTACGCGGCCGATTTAGATCGAGTTTTTTTTTTTTTTTTTTTGGAAACATTGGTTTAAT
 GGTCTGAATAAATGGTTAAGATTGATGTTTCCAGCCAAGTGAGATTTGGGTTTAGATAT
 AGTTTGGGCTTAAGTATCCTTTATCTCAGATTAATGAGACAGTGCATGTAACCACTTA
 GAAGAATGCCTGGAACACATTAACCTTTTACTAATGGTTTTGGTCATTCTTAAACATT
 TCACTTCTGCCACCACCTTTATGCAGTCTGGCACATAGCTGTCACTCAGCAAATGTGA
 GCAAACAACACTACAGACTTTAGTCTGCCAAGCTTTTAACTCCCAAGACACGGGGTCC
 GGCCATCCACTTCGTATCCTGCCAAATATACCCTGGCTCTCGCACCAAGCCCGGGCC
 CCTCTGACCCCCCTACACTTACCCCGGCCCTTCTCCTTACCAATGTCTCCCCC
 TCCCCCCCCCTCTCCCCCCCCCTCCAGTTTGGTCCGCCTCACGTACAT
 ATCTTATCCTCTCCATTCCCCTCTTCAATTCCTTTATCCACTCCCCCTTTTCA
 CCCGCCACTTCCGTTAGTATCCTCCGCCCTCCCCCTCACACTCTCTCCACTCCCCCTC
 TACCCCTCTCTCATTCCCCTTTCTCCTCTCTCCTCCTCCCTGCCGCCCGCCCCCTCC
 CCTCAACTCCCCCACCATTCTCACCCACACCACCCCAACTTTCCTTCTCCTCCA
 CCCACATCCCTCTCCCTCTCCTTTTACCCCTTTTATCAATATTTTCATATCC
 CTCCTTCTCCTCCCTCCCCCTCCCTCTCTCCTACCCTTCGGTATAACCTACT
 ACATCGTCTCTCCACTCTTTTATCTCCATTATAGCACATTTCCCTACCACCTCCCTCT
 TTTTCCCTCTAACCATATCAAG

Restriction Sites:

NotI-NotI

ACCN:

NM_015935

Insert Size:

3330 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_015935.4 , NP_057019.3
RefSeq Size:	3421 bp
RefSeq ORF:	2100 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).</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>