

Product datasheet for **SC123521**

KIAA0859 (METTL13) (BC029083) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA0859 (METTL13) (BC029083) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIAA0859
Synonyms:	5630401D24Rik; CGI-01; feat; KIAA0859
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for BC029083 edited
CACTGCAGTGTCCCGGAGCCTGCGTGTGGTGGGCAAGCTCCTCAAATGGTATCTCACAGG
GAATAGGGGAGTCTTGAAAACGCAGCTTCGGCAGTAGGAACATGAACCTTTACCTAAAA
GTTCCAGGGAGTTTGGCTCCGTTGACTATTGGGAGAAGTTCTCCAGCAGCGAGGAAAGA
AAGCTTTCGAGTGGTATGGAACCTACCTGGAACGTGCGGGGTGCTACATAAATATATCA
AGCCCAGGGAAAAGGTGCTGGTATTGGGTGTGGCAACTCAGAAGTGAAGTGAAGCAACTGT
ATGATGTGGGCTATCGGGATATAGTGAACATCGACATCAGTGAAGTGTGTCATCAAGCAAA
TGAAGGAATGTAATGCCACCCGACGGCCCCAGATGAGCTTCTTGAAGATGGACATGACGC
AGATGGAGTTTCTGATGCCTCGTTCAGGTGGTGTGGACAAGGGCACCTGGATGCTG
TCCTGACAGATGAGGAAGAGAAGACCTTACAACAGGTGGACAGGATGCTGGCTGAGGTTG
GCCGTGCTCCTGCAGGTGGGCGGTCGCTATCTCTGCATCTCCCTGGCTCAGGCTCACATCC
TGAAGAAAGCAGTGGCCACTTCTCCGGGAGGGGTGGATGGTGAAGGTGCACCAAGTGG
CCAACAGCCAGGACCAGGTGTTGGAAGCAGAGCCTCAGTCTCCTTGCCTGTCTTTGCCT
TCATCATGACCAAGTTCAGGCCAGTCCCTGGCTCTGCCCTCAGATCTTTGAGCTGTGTG
CTCAGGAGCAGCGCAAGCCTGTGCGGCTGGAGAGTCCGAGCGGCTGGCCGAGGCGGTGC
AGGAGCGACAGCAGTATGCCTGGCTGTGACGCCAGCTGCCCGCAAGGCCAGGCTGGGGA
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AGGGCCGGGAGACCGAGTGGCTCTTTGGCATGGATGAGGGCCGAAACAGCTGGCGGCCA
GTGCTGGCTTCAGGAGGTTGATTACAGTGGCCCTTACCAGGTCAGCAGTATGAAAGCA
TGGACCACATCCAAGTGAAGTGTGCGCTAGAGTATGGAGTGGCCCCAGCTGGGATGC
CCACCCAGCAGCAGGTCCTCTTCTGTCTGTGGTGGGGACATTGGGGTCCGACCGTTC
AGCACCAGACTGCAGCCCTTGGCGGTGACTATGTCATTGAGGATGTGCAAGGGGATG
ACAAGCGATACTTCCGTGACTGATCTTCTCAGCAACAGGAATGTGGTGCAGTCCGAAG
CCAGGTTGCTGAAGGATGTGTCTCACAAGCCAGAAAGCGGAAAAAGGACAGGAAGA
AGCAGCGGCTGCTGATGCGGAGGACCTCCCTGCAGCCCCGGGCGAGTCCATTGATAAGA
GTTACCTGTGTTGTGAACACCACAAAGCCATGATCGCTGGCCTTGCCTGCTGAGAAACC
CAGAGCTACTCTAGAGATCCCACTGGCATTGTTGGTGGTAGGCCTGGGCGGGGCGAGCC
TCCCCCTCTTTGTCCACGATCATTTTCAAAGTCTGCATTGATGCTGTGGAGATCGATC
CCTCCATGTTGGAAGTGGCCACCAGTGGTTTGGCTTCTCCAGAGTGACCGAATGAAGG
TCCACATTGCAGATGGCCTGGACTATATCGCCAGCTTGGCAGGAGGAGGAGAAGCACGGC
CTTGCTACGATGCATAATGTTTGTGATGTTGACAGTAAGGACCCAACACTGGGAATGAGTT
GTCCGCCCCCAGCATTTGTGGAGCAATCTTTTCTACAGAAGGTTAAAAGCATCTTGACTC
CTGAAGGTGTTTTATTCTCAACCTTGTGTGCCGAGACTTGGGGCTAAAAGACTCAGTGC
TGGCTGGGCTCAAGGCAGTGTTCCTCCTATATGTCCGGCGAATTGAGGGTGAAGTGA
ATGAGATCCTGTTCTGTGAGTGCACCTGAGCAAAAACCTGGCCACACCAGAGCTCCTAG
AAACAGCCCAGGCTTTGGAGCGGACCCTGAGGAAGCCTGGGAGGGGTGGGATGACACGT
ATGTCTTGTGAGATATGCTCAAGACGGTGAATAATGTTGACTGCTTAGGCCAAGCAGCC
CTCCTGCCTAGACTGACCTTGGACTCCAGCCTGCCAGAGAATGAAGAAATACAACGCC
AGTACTTTTGAAGCTTCGTATTTTTCTTGGTTTACACTCAGCTACATGTGACCTCCAGC
TTGGTGAAGTTGCTGAAGATTAGGGAAAATAAAAATGTCTTCCAAAAA
AAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC029083 unedited NGGTTTTGATTTGTATACGACTCTTATAGGCGGCCGCGNATTCCTGGGATATCGTCGACC CACGCGTCCGCACTGCAGTGTCCCGGAGCCTGCGTGTGGTGGGCAAGCTCCTCAAATGGT ATCTCACAGGGAATAGGGGAGTCTTGAAAACGCAGCTTCGGCAGTAGGAACATGAACCTC TTACCTAAAAGTTCAGGGAGTTGGCTCCGTTGACTATTGGGAGAAGTTCTCCAGCAG CGAGGAAAAGAAAGCTTTCGAGTGGTATGGAACCTACCTGGAAGTGTGCGGGGTGCTACAT AAATATATCAAGCCCAGGAAAAGGTGCTGGTGATTGGGTGGCAACTCAGAAGTGAAGT GAGCAACTGTATGATGTGGGCTATCGGGATATAGTGAACATCGACATCAGTGAGGTTGTC ATCAAGCAAATGAAGGAATGTAATGCCACCCGACGGCCCCAGATGAGCTTCTGAAGATG GACATGACGCAGATGGAGTTTCTGATGCCTCGTTCAGGTGGTGTGGACAAGGGCACC CTGGATGCTGCTGACAGATGAGGAAGAGAAGACCTTACAACAGGTGGACAGGATGCTG GCTGAGGTTGGCCGTGCTGTCAGGTGGGCGGTCGCTATCTGTCATCTCCCTGGCTCAG GCTCACATCTGAAGAAAGCAGTGGGCCACTTCTCCGGGAGGGGTGGATGGGTGAGGGT GCACCAAGTGGCCAAACAGCCAGGACCAGGTGTTGGAAGCAGAGCCTCAGTTCTCCTTGCC TGTCTTTGCCTTCATCATGACCAAGTTCANGCCAGTCCCTGGCTCTGCCCTTCAGATCTT TGAGCTGTGTGCTCAGGAGCAGCGCAAGCCTGTGCGGCTGGAGAGTGCCTAGCGGCTGGC CCAGGCGGTGCANGAA
Restriction Sites:	Please inquire
ACCN:	BC029083
Insert Size:	2420 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:	<u>BC029083.1</u> , <u>AAH29083.1</u>
RefSeq Size:	2420 bp
Locus ID:	51603
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]