

Product datasheet for **SC126219**

EEF1AKMT3 (NM_015433) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EEF1AKMT3 (NM_015433) Human Untagged Clone
Tag:	Tag Free
Symbol:	EEF1AKMT3
Synonyms:	FAM119B; METTL21B
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 NM_015433 edited
CTCAGGGAGGCGGGGCTCGTTCCACAGGGACACCACGACGGCTCGCGGCCCCAGCCTCT
ACCCCGCTCCGGATCCGGGATCTGAGCGCCGCGCGGTGCCAGGCACTCCCTTGCGG
GCCGATGGCGGACCCCGGCCAGATCCCGAATCTGAGTCGGAATCGGTGTTCCCGCGG
AGGTCGGGCTCTTTCAGACTCTTACTCGGAGAAGAGCCAGTTCTGTTTCTGTGGCATG
TGCTGACCATCACGCAGAACTTTGGGTCCCGCTCGGGGTGGCGGCGCGGTGTGGGACG
CGGCCCTGAGCCTGTGCAATTATTTGAGAGTCAAAATGTGGATTCCGAGGCAAGAAGG
TGATCGAACTGGGTGCGGGGACAGGCATCGTGGGGATCTTGGCAGCGCTGCAGGGGGGG
ATGTTACCATCACTGACCTGCCCTGGCCCTAGAACAGATCCAGGGCAACGTCCAGGCCA
ATGTGCCAGCTGGAGGCCAGGCCAGGTGCGTGCCTTGTCTGGGGATTGACCATCATG
TCTTCCCTGCAAACTATGACCTGGTGTGGGGCTGATATCGTGTACCTGGAACCCACCT
TCCCTCTGCTGTGGGACCCCTCAACACCTGTGCAGGCCCATGGCACCATCTATCTGG
CCTCAAGATGAGAAAGGAGCATGGGACAGAGAGCTTCTTTCAGCACCTCCTGCCCCAGC
ATTTCCAAGTGGAGCTGGCTCAGCGGGATGAGGATGAAAATGTCAACATCTATAGGGCCA
GGCACAGGAACCAAGACCTGCTTGACATCACCTTGCTGTTCTTCTCAATCTCTTGCTC
TAATGAAGGAACGTGTATCTCAAAAACCATATTTCCAGAGCCACAAACATGAGGACCA
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TCTGTGGGATTTTTTTTTCTTTTTCTTTTTTTTGGAGCAGGGTCTCACTCTGTCTATC
CAGGCTGGAGTGCAGTGGTGTGATCACAGCTCACTGCAGCCTCAACCTCTGAAGGCCAG
ATGATCTTCTGCCTCAGCTCCCCAAGTAGCTGGGACTAGAGGCATGCGCCACCACACC
GGCTAATTTTTGTATTTTCACTAGAGACAGGGTTTCGCCATGTTGCCAGGGTGGTCTCA
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GGCCCACTGTGCTAGCCTAGGATTTTTTTTTTTTTTAAGAAAGAATTAAGCCTTAAAAA
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CCATTTCTGCTTTTTAGAGATAGAGTCTAGTGAACCATGGCTCTAACTGGGTCAAGTC
CTCCTAGCTCTGAAGCTAAGGCTGCAGAGCTGTCTTTGGACTGTATTTCTTCATGCTTT
CCAGAGTTAGAGCCTTGATCACGGAACATCATTGTGTGAGAAGAATACTGTACCTAGTA
CTAAGTTCTTTTCATCTTTGATTTTTCTTTAGCTTCATCAGTCCTTCCTCCTAATCTCT
AATCCCTGAAGCCTAACACAGTTCCTAATGTGTTTTGCCTTAACCTCTTTTCTCTTCCC
ACATTGGTACTTCTGGTTGGGGCTCTCTTACTTACTGCTTAGGCACATAGTCACCTTCT
CTGGACTCCCTGCTTCCATGCTTTCTCCTTCAGTCCATTCCGCAAACCTTGTGATCTTC
CAAAATTAGCTCTGATTAGCTTTCACTTCTGTAGAAGCAAGAACAAGCTCCTCTGCTTG
GTACTTAGTCTGTGTCATGTGATCCAAAATTACCTTCTATTGCATTTCTACTCCTTT
GCTACGTGTATTGGACCTCTGGCCAAATTACAAAAGATGACTCTTTGTTCTCTAAAACC
ACACTAAAGTTTTCTGACTTCTTTCACACTCTTTATGATAATCCTCTGCCTGAAAGGCTA
TTGCCACCTGTCAAAATCTTCATTATTCTTTGCCTCTTTCTGAGCCTCTTGCTTGAATG
TGATTTCTTTCTCCCTGAGACCCATAAGGTTTCATCTTATGGGACCTTAATTTGTCTTGCA
TGGACATTTGTGATTCTCATTTTCTCACCATTAAATTACCTTGGAGGGTAGGGCTGTGGT
TTACTCCTGTCTAAACCCCTGAAGCCTAACACAGTTCTGGCACACAACAGGTGTTCAAC
AGATATTGTGCTCATTCAATAAATTTTACTCGCTTTGTTTAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_015433 unedited <pre> GGTTTAGATTTGTAAACGACTTATATAGGCGAGCCGCAATCAAATCTGGTACCGGTCCG GAATTCCTCCGGGATATCGTCGACCCACGCGTCCGCTCAGGGAGGCGGGGCTCGTTCCACAG GGACACCACGACGGCTCGCGGCCCCAGCCTCTACCCGCTCCGGATCCGGGATCTGAGC GCCGGCCCGGTGCCAGGCACTCCCTTGGCGGGCCGGATGGCGGACCCGCGCCAGATC CCGAATCTGAGTCGGAATCGGTGTTCCCGCGGGAGGTGGGCTCTTTCAGACTCTTACT CGGAGAAGAGCCAGTTCTGTTTCTGTGGCATGTGCTGACCATCACGCAGAACTTTGGGT CCCGCCTCGGGGTGGCGGCGCGCTGTGGGACGCGGCCCTGAGCCTGTGCAATTATTTTCG AGAGTCAAAATGTGGATTTCGAGGCAAGAAGGTGATCGAACTGGGTGCGGGGACAGGCA TCGTGGGGATCTTGGCAGCGCTGCAGGGGGGGATGTTACCATCACTGACCTGCCCTGG CCCTAGAACAGATCCAGGGCAACGTCCAGGCCAATGTGCCAGCTGGAGGCCAGGCCAGG TGCGTGCCTTGTCTGNGGGATTGACCATCATGTCTTCCCTGCAAATATGACCTGGTGC TGGGGGCTGATATCGTGTACCTGGAACCCACCTTCCCTCTGCTGCTGGGGACCCTCCAAC ACCTGTGCAGGCCCCATGGCACCATCTATCTGGCTCCAAGATGAGAAAGGAGCATGGGA CAGAGAGCTTCTTTCAGCACCTCTGCCCCAGCATTTCCAAGTGGAGCTGGCTACCGGG ATGAAGATGAAAATGTCAACATCTATAGGGCCAGGCACAGGGAACCAAGACCTGCTTGAC ATCACCTT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_015433
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:	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_015433.2</u> , <u>NP_056248.2</u>
RefSeq Size:	2717 bp
RefSeq ORF:	681 bp
Locus ID:	25895
UniProt ID:	<u>Q96AZ1</u>
Cytogenetics:	12q14.1

Gene Summary:

Protein-lysine methyltransferase that selectively methylates EEF1A1 and EEF1A2 at 'Lys-165' in an aminoacyl-tRNA and GTP-dependent manner. EEF1A1 methylation by EEF1AKMT3 is dynamic as well as inducible by stress conditions, such as ER-stress, and plays a regulatory role on mRNA translation.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longer isoform (a).