

Product datasheet for **SC101434**

FAM119A (METTL21A) (AK094485) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM119A (METTL21A) (AK094485) Human Untagged Clone
Tag:	Tag Free
Symbol:	FAM119A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK094485, the custom clone sequence may differ by one or more nucleotides

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AAGCAACCCAGAGCCCTCTCCCGCTGCTCTGTGTAGGAGACAGCTGCGGAGCCCACTGCCGGCGCGC
AGAGAGCCCAGCAGCTCTTGAGTCCAGGAAGCAAGGGTGGGAGGAGGACGAGCCAGTGGCAATGACCCA
GACCCGGACGACCCCATTTGCTGAGCCAGCGGAGCTGCTTGGTGTGGCTCCAGGCGGCATCTTTGC
TCTCAGCCCGGAGGGGTTTTGGGGACCCAGGCTGTGGGGCTGCCTCTTCCCATGCCTTCAGTTCACCCC
GATATGGGGTGAAAAACCTAGAGACCTCTGGGAGTCCGTCCACCAAGGGAGGTCCAGACTCCCCAGGAA
TGTTGCCTGGGGAGGGGTGTCGCGGTGGGGGGGTGACCCAGGCCACCCTCTGCAGGGCACTTAAATG
CTCCACATCCCCAGTGGATGCCTCCTGTACGCATCACACCGTGGTGTATTTGAGATCCCATCTGCCACT
TGGGCTGGAGGAAATGGATGTTTTGGGTTTCTTGTCTTCTCCTGCGGATTCCATTTACTCTGT
TCGTTTATGGCCTCAAACATGAATTTGAAGAATTTGCCCTCCCTGCCAGTATTGGGAAGAAGATTCTTT
TGTTCAAGTCCGTTTGGACAATTAGATGGGAGTATTAACAAAAGTTCGGGCTGGGCACAGTGGCTCACAC
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GGCAACAGAGGGAGAACTTGTCTCTACAAAAAATTTAAAAATCAGCTGGGCATGGTGGTGCAGCCCTGTA
GCCAAGCTATATGGGAAGCTGAGGTGGGAGGATTGCTTGAGCCCGAGAGTTTGGGCTGCTGTGAGCTG
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TATACCCAGAGACTAGTGCCTCTAGGATAAAAGGAGTCATTCAGCCCTTACTTTTGGTTGGATGCAGG
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GGCCAACATGGTGAACCCCATCTACAAAAATACAGAAATTAGTCGGGCATGATGGTGGGTGCCTGTA
ATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTGGAACCTGGGAGGTGGAAGTTGCAGTGAGCCG
AGACTGTGCCATTGCACTCTGGCCTGGGCAACTGAGCGAGACTCCGTCTC
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5' Read Nucleotide Sequence:

>OriGene 5' read for AK094485 unedited
 GTTCAAATTTTGTAAACGACTCACTATAGGGCGGCCCGAATTCGCACGAGGCCCTCG
 GGTGTCGGTCCACCAAGGAGGTCCAGACTCCCCAGGAATGTTGCCTGGGGAGGGGTGTCG
 CCGTGGGGGGGGGGTGACCCAGGCCACCCTCTGCAGGGCACTAAAATGCTCCACATC
 CCCAGTGGATGCCTCCTGTCACGCATCACACCGTGGTGTATTTGAGATCCCATCTGCCAC
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 ATATGGGAGGCTGAGGTGGGAGGATTGCTTGAGCCCGAGAGTTTGGGCTGCTGTGAGCT
 GAGATCACGTCACTGCATTCCAGCCTGGGCAACAAAGCAAGACCCTGTCTGANGTCAACT
 CTGCCCCAGGAAGGTATGGGACCTTGCAATCTTATCTANGTTGCGTCTTTTTCATTGAA
 ATCACGAAATCATTAAANGTAAGTANGGAAAGGTCAAGATAGCTAAGATGAGTGAGGGGA
 CACAGACACCAATAAAGGTCTAANTNTGAAGACTNCTNCCATATTCTTTTTATTCTAAA
 ACTTCTGGCCTATCANCTTATTCAAACACAGCCTATGAGTCTCAAGCCAGTCCAGGACCA
 AGGAGGC

3' Read Nucleotide Sequence:

>OriGene 3' read for AK094485 unedited
 TTTTAAATCACTATGNAACGCGGCCGCTANCTAGAGTCGAGTTTTTCTTTTTTTTTTTT
 TTTTTTTTTTTTTTGGAGACGGAGTCTCGCTCAATTGCCAGGCCAGAGATGCAATGGCAC
 AGTCCCGGCTCACTGCAACCTCCACCTCCAGGTTCCAGCAACTCTCTGCCTCAACCTC
 CCGAGCAGCTGGGATCACAGGCACCCACCATCATGCCCGATCTATTTCTGTATTTTTGTA
 GAGAAAGGGGGTTACCATGTTGGCCANGCTGATCTTGAACCTCTGACCTCAGGCAGTGA
 CCTTTTTCTGTACACCGAATTCCTTCTCAGTACAGACAGAGTTACTACTTCATTCTTC
 TCTCAACATTATAATTGTTTTGCGGTTTCTGGGGAGAATTTATCTTACTTATTTCTTAT
 CTCAAAGCCTATGCAGAACAGCTAAATAGGTAAGTACTGATGAGAAATATACTACTAGACAA
 ACTCTAACACTCACTCAACCTAAAGTCTTAAAAATTTGTTCTGTGACATTTTATTGAAA
 CTACACCCTGCATCCACCAAAAAGTAAGGGCTGAATGACTCCTTTTATCCTAGAGTGCAC
 TAGTCTCTGGGGTATACATGCACTCCTCAATCAGTTCTCAAATGATTCTGCCTCTAAGAA
 CAGCAAAAACACAGGTAATCATCTCCGGGCTTACTTGAAGTTGTGTGCTCATTCCAAAA
 TCTGCCTTGCTCACTTCCAGAGTCCAAGTATCACTGGGCTTCGAGGGCATTAGGCAGCATC
 CATTCTTTGAAACAAACCATTAGGTTTTTTACTCTGACTTCCCGTGCAGGGCAGCTAGA
 AGAACTCTTCCCTGCCTTGGCCCTGGCTGGGCCCGGGTCCCCTCCGGTCA

Restriction Sites:

NotI-NotI

ACCN:

AK094485

Insert Size:

2250 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:

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: [AK094485.1](#)

RefSeq Size: 2290 bp

RefSeq ORF: 2290 bp

Locus ID: 151194

Cytogenetics: 2q33.3

Gene Summary: Protein-lysine methyltransferase that selectively trimethylates residues in heat shock protein 70 (HSP70) family members. Contributes to the in vivo trimethylation of Lys residues in HSPA1 and HSPA8. In vitro methylates 'Lys-561' in HSPA1, 'Lys-564' in HSPA2, 'Lys-585' in HSPA5, 'Lys-563' in HSPA6 and 'Lys-561' in HSPA8.[UniProtKB/Swiss-Prot Function]