

Product datasheet for SC308317

EEF1AKMT3 (NM_206914) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EEF1AKMT3 (NM_206914) Human Untagged Clone
Tag:	Tag Free
Symbol:	EEF1AKMT3
Synonyms:	FAM119B; METTL21B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC308317 representing NM_206914. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGGCGGACCCCGGCCAGATCCGAATCTGAGTCGGAATCGGTGTTCCCGCGGGAGGTCTGGCTCTTT
 GCAGACTCTTACTCGGAGAAGAGCCAGTTCTGTTTCTGTGGCATGTGCTGACCATCACGCAGAATTT
 GGGTCCCGCTCGGGGTGGCGCGCGCTGTGGGACGCGCCCTGAGCCTGTGCAATTATTTGAGAGT
 CAAAATGTGGATTTCCGAGGCAAGAAGGTGATCGAACTGGGTGCGGGGACAGGCATCGTGGGGATCTTG
 GCAGCGCTGCAGGGAGCTTATGGTCTAGTGAGGGAGACAGAGGACGATGTCATAGAACAAGAACTCTGG
 CGAGGTATGCGTGGAGCCTGTGGACATGCTCTATCCATGTCTACCATGACTCCCTGGGAATCCATCAAG
 GGAAGCTCTGTCAGGGGGGGATGTTACCATCAC**TGA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_206914
Insert Size:	450 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).


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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_206914.1</u>
RefSeq Size:	2856 bp
RefSeq ORF:	450 bp
Locus ID:	25895
UniProt ID:	<u>Q96AZ1</u>
Cytogenetics:	12q14.1
MW:	16.2 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) contains an alternate coding exon compared to variant 1, that causes a frameshift. The resulting isoform (b) is shorter and has a distinct C-terminus compared to isoform a.</p>