

# **Product datasheet for RC225260**

#### OriGene Technologies, Inc.

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## FAM119A (METTL21A) (NM\_001127395) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** FAM119A (METTL21A) (NM\_001127395) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: FAM119A

**Synonyms:** FAM119A; HCA557b; HSPA-KMT

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC225260 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCCCTCGTGCCCTATGAGGAGACCACGGAATTTGGGTTGCAGAAATTCCACAAGCCTCTTGCAACTT
TTTCCTTTGCAAACCACACGATCCAGATCCGGCAGGACTGGAGACACCTGGGAGTCGCAGCGGTGGTTTG
GGATGCGGCCATCGTTCTTTCCACATACCTGGAGATGGGAGCTGTGGAGCTCAGGGGCCGCTCTGCCGTG
GAGCTGGGTGCTGGCACGGGGCTGGTGGGCATAGTGGCTGCCCTGCTGGGTGCTCATGTGACTATCACGG
ATCGAAAAGTAGCATTAGAATTTCTTAAATCAAACGTTCAAGCCAACTTACCTCCTCATATCCAAACTAA
AACTGTTGTTAAGGAGCTGACTTGGGGACAAAATTTGGGGAGTTTTTCTCCTGGAGAATTTGACCTGATA
CTTGGTGCTGATATCATATATTTAGAAGAAACATTCACAGATCTTCTCAAACACTCTGTA
GCAATCACTCTGTGATTCTTTTAGCATGCCGAATTCGCTATGAACGGGATAACAACTTCTTAGCAATGCT
GGAGAGGCAATTTATTGTGAGAAAAGGTTCACTACGATCCTGAAAAAAGATGTACATATTTACGAAGCACAG
AAGAAAACCAGAAGGAGGACTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA





**Protein Sequence:** >RC225260 protein sequence

Red=Cloning site Green=Tags(s)

MALVPYEETTEFGLQKFHKPLATFSFANHTIQIRQDWRHLGVAAVVWDAAIVLSTYLEMGAVELRGRSAV ELGAGTGLVGIVAALLGAHVTITDRKVALEFLKSNVQANLPPHIQTKTVVKELTWGQNLGSFSPGEFDLI LGADIIYLEETFTDLLQTLEHLCSNHSVILLACRIRYERDNNFLAMLERQFIVRKVHYDPEKDVHIYEAQ KRNQKEDL

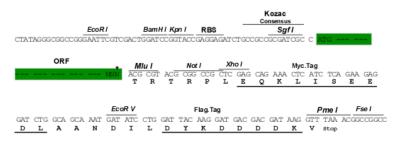
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6334">https://cdn.origene.com/chromatograms/mk6334</a> a10.zip

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_001127395

ORF Size: 654 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**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:** NM 001127395.3

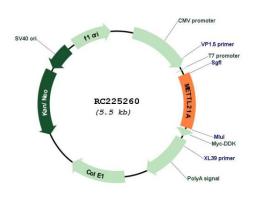
RefSeq Size:4805 bpRefSeq ORF:657 bpLocus ID:151194

UniProt ID:Q8WXB1Cytogenetics:2q33.3MW:24.6 kDa

**Gene Summary:** Protein-lysine methyltransferase that selectively trimethylates residues in heat shock protein

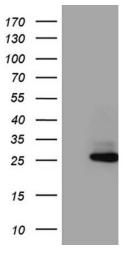
70 (HSP70) family members. Contributes to the in vivo trimethylation of Lys residues in HSPA1 and HSPA8. In vitro methylates 'Lys-561' in HSPA1, 'Lys-564' in HSPA2, 'Lys-585' in HSPA5, 'Lys-563' in HSPA6 and 'Lys-561' in HSPA8.[UniProtKB/Swiss-Prot Function]

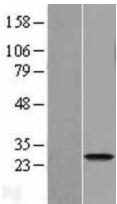
### **Product images:**



Circular map for RC225260







HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY METTL21A (Cat# RC225260, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-METTL21A (Cat# [TA811541])(1:2000). Positive lysates [LY426777] (100ug) and [LC426777] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY426777]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225260 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).