

Product datasheet for **RG207629**

FAM119A (METTL21A) (NM_145280) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM119A (METTL21A) (NM_145280) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FAM119A
Synonyms:	FAM119A; HCA557b; HSPA-KMT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207629 representing NM_145280 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCTCGTGCCCTATGAGGAGACCACGGAATTTGGGTTGCAGAAATCCACAAGCCTCTTGCAACTT
TTTCCTTTGCAAACACACGATCCAGATCCGGCAGGACTGGAGACACCTGGGAGTCGCAGCGGTGGTTTG
GGATGCGGCCATCGTTCTTTCCACATACCTGGAGATGGGAGCTGTGGAGCTCAGGGGCCGCTCTGCCGTG
GAGCTGGGTGCTGGCACGGGCTGGTGGGCATAGTGGCTGCCCTGCTGGGTGCTCATGTGACTATCACGG
ATCGAAAAGTAGCATTAGAATTTCTAAATCAAACGTTCAAGCCAACCTACCTCCTCATATCCAACTAA
AACTGTTGTTAAGGAGCTGACTTGGGGACAAAATTTGGGGAGTTTTTCTCCTGGAGAATTTGACCTGATA
CTTGGTGCTGATCATATATTTAGAAGAACATTCACAGATCTTCTTCAAACACTGGAACATCTCTGTA
GCAATCACTCTGTGATTCTTTAGCATGCCGAATTCGCTATGAACGGGATAACAACCTCTTAGCAATGCT
GGAGAGGCAATTTATTGTGAGAAAGTTTACTACGATCCTGAAAAAGATGTACATATTTACGAAGCACAG
AAGAGAAACCAGAAGGAGGACTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207629 representing NM_145280
 Red=Cloning site Green=Tags(s)

MALVPYEETTEFGLQKFHKPLATFSFANHTIQIRQDWRHLGVAAYVWDAIIVLSTYLEMGAVELRGRSAV
 ELGAGTGLVGIVAALLGAHVITIDRKVALEFLKSNVQANLPPHIQTKTVVKELTWGQNLGSFSPGEFDLI
 LGADIIYLEETFDLLQTLEHLCSNHSVILLACRIRYERDNNFLAMLERQFIVRKVHYDPEKDVHIYEAQ
 KRNQKEDL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145280

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_145280.3](#), [NP_660323.2](#)

RefSeq Size: 1770 bp

RefSeq ORF: 657 bp

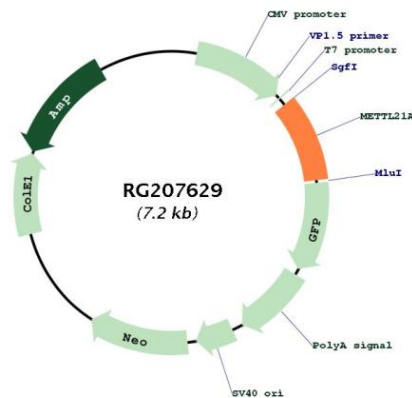
Locus ID: 151194

UniProt ID: [Q8WXB1](#)

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]

Product images:



Circular map for RG207629