

Product datasheet for MR200568

Fam103a1 (NM_025997) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fam103a1 (NM_025997) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fam103a1
Synonyms: 2410047I02Rik; 2610204K14Rik; RAM
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200568 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTGATACTTCTGAAGAAATTCAAATTTGAAGAGATGTTTGCAAGCAGATTCACGAAAGATGACA
 AAGAATACCAGGAATACTTGAACGCCCTCCTGAGTCCCCTCCAATTGTTGAGGAATGGAATAGCAGAGC
 TGGTGGTAACCAAAGAAATAGAGGCAACTGGCTGCAAGACAACAGACAATTTAGAGGTAGGGATAACAGA
 CGAGGATGGCCAAGTGACAATCGGTCAAATCAGTGGCATGGACGGTCATGGGGTAACAACAACACTACCCAC
 AGCAGAGACCAGAGCCCTACTATCAACAACAGTACACACAGTATGGCCACAACCAGCGGCCTCCATATGG
 TTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200568 protein sequence
 Red=Cloning site Green=Tags(s)

MSDTSEEIPNFEEMFASRFTKDDKEYQEYLKRPPESPPIVEEWN SRAGGNQRNRGNWLQDNRQFRGRDNR
 RGWPSDNRSNQWHGRSWGNNYPQQRPEPYQQYTYGHNRPPYGY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:



ACCN: NM_025997

ORF Size: 360 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_025997.2](#), [NP_080273.1](#)

RefSeq Size: 1423 bp

RefSeq ORF: 360 bp

Locus ID: 67148

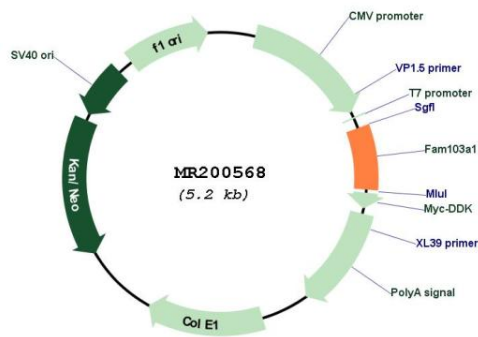
UniProt ID: [Q9CQY2](#)

Cytogenetics: 7 D3

MW: 14.6 kDa

Gene Summary: Regulatory subunit of the mRNA-capping methyltransferase RNMT:RAMAC complex that methylates the N7 position of the added guanosine to the 5'-cap structure of mRNAs. Promotes the recruitment of the methyl donor, S-adenosyl-L-methionine, to RNMT. Regulates RNMT expression by a post-transcriptional stabilizing mechanism. Binds RNA. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200568