

Product datasheet for MR200396

0610038D11Rik (BC019418) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: 0610038D11Rik (BC019418) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: 0610038D11Rik
Synonyms: 0610038D11Rik; Trm112p
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200396 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAAACTGCTCACCCACAATCTCCTAAGCTCCCATGTGCGGGGCGTGGGCACGCGTGGCTTCCCGCTGC
 GCCTGCAGGCCACTGAGGTCCGCATCAACCCCGTGGAGTTCAACCCGGAGTTCGTGGCGCGGATGATCCC
 CAAAGTGGAGTGGCGGCGCTTGTGCAGGCAGCGGACACCTTAACTTGGCCGAGGTACCCAAAGAGCCG
 ACTGAAGGCTATGAGCACGACGACATTTTTGAGGAAGATGCACCACGTGTGCTTGGAGGTGAGATCC
 TTGGGCATCGCCTGCCAGACCTCCCACTGAGGCTACCGTGCT

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA

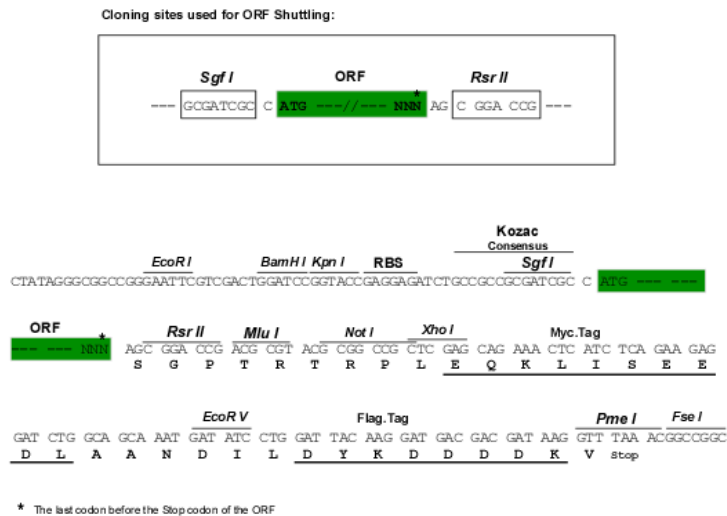
Protein Sequence: >MR200396 protein sequence
 Red=Cloning site Green=Tags(s)
 MKLLTHNLLSSHVRGVGTRGFPLRLQATEVRINPVEFNPEFVARMIPKVEWAALVQAADTLNLAEVPKEP
 TEGYEHDETFLRKMHHVLLLEVRLGHRLPRPTEATGA

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII



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Cloning Scheme:


ACCN: BC019418

ORF Size: 324 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: [BC019418](#), [AAH19418](#)

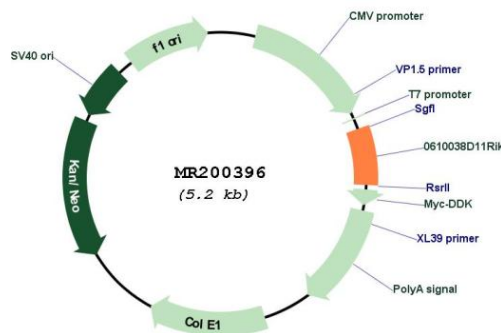
RefSeq Size: 654 bp

RefSeq ORF: 326 bp

Locus ID: 67674
Cytogenetics: 19 A
MW: 12.2 kDa

Gene Summary: Acts as an activator of both rRNA/tRNA and protein methyltransferases (PubMed:26797129). Together with methyltransferase BUD23, methylates the N(7) position of a guanine in 18S rRNA (By similarity). The heterodimer with HEMK2/N6AMT1 catalyzes N5-methylation of ETF1 on 'Gln-185', using S-adenosyl L-methionine as methyl donor (PubMed:20606008, PubMed:26797129). The heterodimer with ALKBH8 catalyzes the methylation of 5-carboxymethyl uridine to 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in target tRNA species (By similarity). Involved in the pre-rRNA processing steps leading to small-subunit rRNA production (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200396