

Product datasheet for MR204412

Mrm3 (NM_183263) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mrm3 (NM_183263) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mrm3
Synonyms:	4833420N02Rik; AI255153; HC90; Rnmtl1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204412 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAATAGTTAAGTCCAGGCCTTTTCGGGAAAAGCAAGGGAAGATCCTACTGGAAGTTCGAGGCTGA
TTGCAGATGCTCTCAAGGCTGGAGCTGTGCCAAAGCGTTCTTTTTAGCCGTCTGGAGTACGTCAAGGA
GTTGCCGGTAGACAAGCTGAAAGACGTCAGCCTCATTAAAGTGAAATTTGAGGACATCAAGGATTGGTCA
GACCTAGTAACGCCACAAGGAATAATGGGGATTTTTCGCAAACTGACCCTGTTAAGATGACATATCCAG
AGACTCCGCTTACCATACTGCCCTAGTGTGATTTGTGACAATCTCCGTGACCCTGGGAACCTGGG
GACAATCCTGAGATCTGCAGCTGGAGCAGGCTGCAGTAAAGTCTTACTACCAAAGGCTGTGTGGATGCC
TGGGAGCCTAAAGTGCTCCGGGCAGGCATGGGGGCACATTTCCAGGTACCCATTGTGAACAATGTGGAAT
GGGAAACAGTGCCCAATCACTTGCCCTCCTGACACTCGAGTCTATGTGGCAGACAACCTGTGGTCACTATGC
CCAGGTTCCAGATGTCTGATAAAACCGGTGACCGTACTGGGCATGTGATCGCCGATTCTTAAAGTTTCAC
AAGTATGAAGAGGACCTAGACACTAAAACCAGAAAGGACTGGCTGCCAAACTTGAGGTCCAGAGTTATG
ATTTGGACTGGACAGGAGCACCAGCAGCTGTGGTATAGGTGGGAGACGCATGGAGTGAGCCTGGAATC
CCTGCAACTGGCCGAGAGTACCGGTGGCAAGAGACTGCTGATCCCCGTTGTACCTGGTGTGGACAGTCTG
AACTCAGCCATGGCTGCGAGCATCTGCTCTTTGAAGGGAAAAGGCAGCTGAGGATAAAGGTGGAAGACT
TGAGCAGGGACAGGAGTTACCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204412 protein sequence
 Red=Cloning site Green=Tags(s)

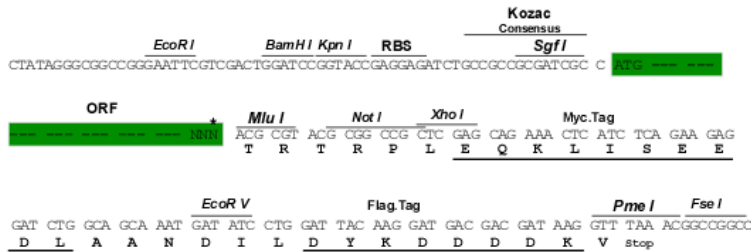
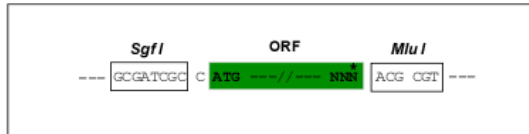
MTIVKSRPFREKQGKILLEGRRLIADALKAGAVPKAFFFSRLEYVKELPVDKLDVSLIKVKFEDIKDWSDLVTPQGI
 MIFAKPDPVKMTYPETPLHHTLPLVLCIDNLRDPGNLGTILRSAAGAGCSKVLLTKGCVDAWEPKVL
 RAGMGAHFQVPIVNNVETVPNHLPPDTRVYVADNCGHYAQVQMSDKTGDRDWACDRRFLKFH
 KYEEDLDTKTRKDWLPKLEVQSYDLDTWGAPAAVVIGGETHGVLSLESLQLAESTGGKRLIPVVP
 GVDLSNSAMAASILLFEGKRLRIKVEDLSRDRSYH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_183263

ORF Size: 936 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_183263.5](#), [NP_899086.2](#)

RefSeq Size: 1492 bp

RefSeq ORF: 1257 bp

Locus ID: 67390

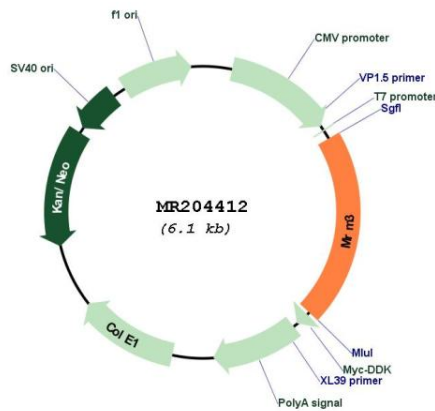
UniProt ID: [Q5ND52](#)

Cytogenetics: 11 B5

MW: 34.7 kDa

Gene Summary: S-adenosyl-L-methionine-dependent 2'-O-ribose methyltransferase that catalyzes the formation of 2'-O-methylguanosine at position 1370 (Gm1370) in the 16S mitochondrial large subunit ribosomal RNA (mtLSU rRNA), a conserved modification in the peptidyl transferase domain of the mtLSU rRNA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204412