

Product datasheet for **SC113706**

RNMTL1 (MRM3) (NM_018146) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNMTL1 (MRM3) (NM_018146) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRM3
Synonyms:	RMTL1; RNMTL1
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_018146, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCGCTGGTGAGACCCGCGAGGTTTGTCTGCGACCGTTGCTGCAGGTGGTCCAGGCTTGGGACC
TTGACGCGAGGCGCTGGGTCCGGGCGCTGCGGCGGAGCCAGTAAAAGTGGTGTTCCTCCGGAGAGGT
GGTGAACAGAAGCGCGCTCCTGGGAAGCAGCCCCGAAGGCACCATCTGAGGCCAGTCCCAGGAGCAA
CGAGAGAAACAACCGCTCGAGGAGTCCGCATCCCGCGCTCCAGCACCTGGGAAGAGTCTGGGCTTCGCT
ACGATAAAGCTTATCCCGGGGACAGGAGGCTGAGCAGTGAATGACAATAGTAAAGTCCAGGCCATTTCCG
GGAAAAACAAGGGAAGATCCTGCTGGAAGTCCGACGGCTCATTTACAGACGCTCTCAAGGCTGGAGCTGTG
CCAAAAATGTTCTTCTTAGCCGTCTAGAATACCTAAAGGAGTTGCCAGTCGATAAGCTGAAAGGTGTCA
GCCTCATTAAGGTGAAATTTGAGGATATCAAGGATTGGTCCGACCTCGTAACGCCACAAGGAATAATGGG
GATTTTGGCAAGCCTGACCATGTTAAGATGACATATCCAAGACTCAGCTTCAGCATTCACTGCCTTTA
TTATTGATTTGTGACAATCTCCGTGACCCTGGGAACCTGGGGACAATTCTGAGATCTGCAGCTGGGGCAG
GCTGCAGCAAAGTGTACTACCAAAGGCTGTGTGGATGCCTGGGAGCCCAAAGTCTCCGGGCGGGTAT
GGGCGCACATTTCCGGATGCCATTATCAATAATCTGGAATGGGAAACCGTCCCAATTACCTGCCCCCT
GACACTCGGGTCTATGTGGCTGACAACCTGTGGCTTTATGCCAGGCTGAGATGTCTAATAAAGCTAGTG
ACCATGGCTGGGTGTGTGATCAACGAGTGAAGTTTACAAGTATGAGGAAGAGGAAGATGTAGAAAC
CGAGCCAGTCAAGATTGGCTGCCTCATGTTGAGGTTGAGGTTACGACTCGGACTGGACAGAGGGCCCG
GCAGCTGTGGTATTGGCGGGGAGACCTACGGCGTGAGCCTGGAGTCCCTGCAGCTGGCCGAGAGCACTG
GTGGCAAGAGGCTGCTGATCCCCGTTGTGCCTGGTGTGGACAGCCTCAACTCGGCCATGGCGGCAAGCAT
CCTGCTTTTGAAGGGAAAAGACAGCTGCGGGGGAGGGCGGAGGACTTGAGCAGGGACAGGAGTTACCAC
TGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_018146 unedited GTATCCGACTTCTGATAGGCGGCCGGAATTCGCACGAGCTCAGGAACATGGCGGCGCTG GTGAGACCCGCGAGGTTTGTCTGCGACCGTTGCTGCAGGTGGTCCAGGCTTGGGACCTT GACGCGAGGCGCTGGGTCCGGGCGCTGCGGCGGAGCCAGTAAAAGTGGTGTTCCTTCC GAAGAGGTGGTGAACAGAAGCGCGCTCCTGGGAAGCAGCCCCGAAGGCACCATCTGAG GCCAGTCCCAGGAGCAACGAGAGAAAACAACCGCTCGAGGAGTCCGCATCCCGCGCTCCC AGCACCTGGGAAGAGTCTGGGCTTCGCTACGATAAAGCTTATCCCGGGGACAGGAGGCTG AGCAGTGAATGACAATAGTAAAGTCCAGGCCATTTCCGGAAAAACAAGGGAAGATCCTG CTGGAAGGTCGCAGGCTCATTTCAAGCGCTCTCAAGGCTGGAGCTGTGCCAAAAATGTTT TTCTTTAGCCGTAGAATACCTAAAGGAGTTGCCAGTCGATAAGCTGAAAGGTGTGAGC CTCATTAAGGTGAAATTTGAGGATATCAAGGATTGGTCCGACCTCGTAACGCCACAAGGA ATAATGGGGATTTTTGCCAAGCCTGACCATGTTAAGATGACATATCCAAAGACTCAGCTT CAGCATTCACTGCCTTTATTATTGATTTGTGACCATCTCCGTGACCCTGGGAACCTGGNG GACATTCTGAGATCTGCAGCTGGGGCAGGCTGCANCAAAGTGTACTACCAAAGCTGTG TGGATGCCTGGGAGCCAAATGCTCCCGCGGGTATGGCCGCCATTTTCGGATGCCATAT CATAATCTGGATGAAACCGTCGCCATTCTGCCCTGAACTGGGTCTTGGCTGACACT GTGC
Restriction Sites:	NotI-NotI
ACCN:	NM_018146
Insert Size:	2000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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:	<u>NM_018146.2</u> , <u>NP_060616.1</u>
RefSeq Size:	1815 bp
RefSeq ORF:	1263 bp
Locus ID:	55178
UniProt ID:	<u>Q9HC36</u>
Cytogenetics:	17p13.3
Domains:	SpoU_methylase
Protein Families:	Stem cell - Pluripotency

Gene Summary:

Efficient translation of mitochondrial-derived transcripts requires proper assembly of the large subunit of the mitochondrial ribosome. Central to the biogenesis of this large subunit is the A-loop of mitochondrial 16S rRNA, which is modified by three rRNA methyltransferases located near mtDNA nucleoids. The protein encoded by this gene methylates G(1370) of 16S rRNA, and this modification is necessary for proper ribosomal large subunit assembly. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2015]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).