OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG204113

RNMTL1 (MRM3) (NM_018146) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNMTL1 (MRM3) (NM_018146) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RNMTL1
Synonyms:	RMTL1; RNMTL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG204113 representing NM_018146
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGCTGGTGAGACCCTCGAGGTTTGTCGTGCGACCGTTGCTGCAGGTGGTCCAGGCTTGGGACC
TTGACGCGAGGCGCTGGGTCCGGGCGCTGCGGCGGAGCCCAGTGAAAGTGGTGTTTCCTTCCGGAGAGGT
GGTGGAACAGAAGCGCGCTCCTGGGAAGCAGCCCCGCAAGGCACCATCTGAGGCCAGTGCCCAGGAGCAA
CGAGAGAAACAACCGCTCGAGGAGTCCGCATCCCGCGCTCCCAGCACCTGGGAAGAGTCTGGGCTTCGCT
ACGATAAAGCTTATCCCGGGGACAGGAGGCTGAGCAGTGTAATGACAATAGTAAAGTCCAGGCCATTTCG
GGAAAAACAAGGGAAGATCCTGCTGGAAGGTCGCAGGCTCATTTCAGACGCTCTCAAGGCTGGAGCTGTG
CCAAAAATGTTCTTCTTTAGCCGTCTAGAATACCTAAAGGAGTTGCCAGTCGATAAGCTGAAAGGTGTCA
GCCTCATTAAGGTGAAATTTGAGGATATCAAGGATTGGTCCGACCTCGTAACGCCACAAGGAATAATGGG
GATTTTTGCCAAGCCTGACCATGTTAAGATGACATATCCAAAGACTCAGCTTCAGCATTCACTGCCTTTA
TTATTGATTTGTGACAATCTCCGTGACCCTGGGAACCTGGGGACAATTCTGAGATCTGCAGCTGGGGCAG
GCTGCAGCAAAGTGTTACTCACCAAAGGCTGTGTGGATGCCTGGGAGCCCAAAGTGCTCCGGGCGGGTAT
GGGCGCACATTTCCGGATGCCCATTATCAATAATCTGGAATGGGAAACCGTGCCCAATTACCTGCCCCCT
GACACTCGGGTCTATGTGGCTGACAACTGTGGCCTTTATGCCCAGGCTGAGATGTCTAATAAAGCTAGTG
ACCATGGCTGGGTGTGTGATCAACGAGTGATGAAGTTTCACAAGTATGAGGAAGAGGAAGATGTAGAAAC
CGGAGCCAGTCAAGATTGGCTGCCTCATGTTGAGGTTCAGAGTTACGACTCGGACTGGACAGAGGCGCCG
GCAGCTGTGGTGATTGGCGGGGAGACCTACGGCGTGAGCCTGGAGTCCCTGCAGCTGGCCGAGAGCACTG
GTGGCAAGAGGCTGCTGATCCCCGTTGTGCCTGGTGTGGACAGCCTCAACTCGGCCATGGCGGCAAGCAT
CCTGCTTTTCGAAGGGAAAAGACAGCTGCGGGGGAGGGCGGAGGACTTGAGCAGGGACAGGAGTTACCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

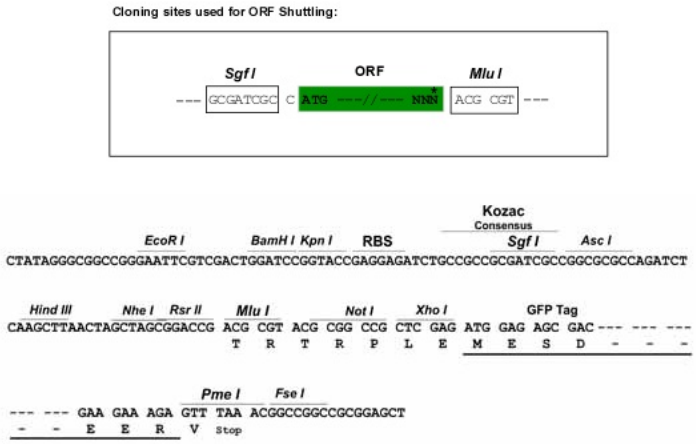
>RG204113 representing NM_018146
Red=Cloning site Green=Tags(s)

MAALVRPSRFVVRPLLQVVQAWDLDARRWVRALRRSPVKVVFPSGEVVEQKRAPGKQPRKAPSEASAQEQ
REKQPLEESASRAPSTWEESGLRYDKAYPGDRRLSSVMTIVKSRPFREKQGKILLEGRRLISDALKAGAV
PKMFFFSRLEYLKELPVDKLKGVSLIKVKFEDIKDWSDLVTPQGIMGIFAKPDHVKMTYPKTQLQHSLPL
LLICDNLRDPGNLGTILRSAAGAGCSKVLLTKGCVDAWEPKVLRAGMGAHFRMPIINNLEWETVPNYLPP
DTRVYVADNCGLYAQAEMSNKASDHGWVCDQRVMKFHKYEEEEDVETGASQDWLPHVEVQSYDSDWTEAP
AAVVIGGETYGVSLESLQLAESTGGKRLLIPVVPGVDSLNSAMAASILLFEGKRQLRGRAEDLSRDRSYH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018146

ORF Size: 1260 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_018146.2, NP_060616.1

RefSeq Size: 1815 bp

RefSeq ORF: 1263 bp

Locus ID: 55178

UniProt ID: Q9HC36

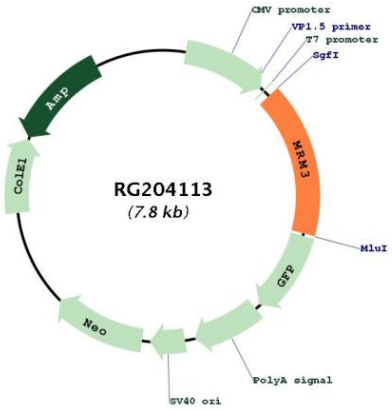
Cytogenetics: 17p13.3

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 subnit assembly. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG204113