

Product datasheet for **RG210077**

MRM1 (NM_024864) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRM1 (NM_024864) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MRM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210077 representing NM_024864 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATTGCTCTCGACCGTCCGGGGCGCGACCTGGGGTCGCCTCGTCACCCGTCATTTCTCCCATGCAG
CGCGGCATGGGGAGCGCCTGGTGGGGAGGAGCTAAGCCGCTTGTGCTGGATGACCTGGTGCCGACCTC
TCGGCTGGAGCTTCTGTTTGGCATGACCCCGTGTCTCTGGCTCTGCAGGCCGCCCGCCTCTGTGGCC
CGGCTCCTGCTCCAGGCGGGTAAAGCTGGGCTGCAGGGGAAGCGGGCCGAGCTGCTCCGGATGGCCGAGG
CGCGGGACATTCCAGTTCTGCGGCCAGACGGCAGAACTGGACACAATGTCCGCTACCCAGGTCACCA
GGGTGTCTGCATGGAGGTGAGCCCGCTGCGGCCCGGCCCTTGGAGAGAGGCCGGGAGGCCGAGCCAGGC
GACGACCCAGCAGTTGTGGCTCGTCCTCGATGGATCCAGGATCCCGGAATTTGGGCTGTGCTGC
GTTCCGCACACTTCTCGGAGTGGATAAGGTATCACCAGCCGAGAAACAGCTGCCCGCTCACTCCAGT
AGTCAGCAAGTCCAGCGCGGGGCTATGGAGGTGATGGACGTGTTCTCCACTGATGACCTCACCGGATTT
TTACAGACCAAAGCCAGCAGGGCTGGCTCGTGGCCGGCACGGTGGGCTGCCAAGCACAGAGGATCCCC
AGTCTCCGAGATCCCCATCATGAGTTGCTTGGAGTTCTCTGGAAACGGCTACTCTCTTGTGCTGGG
GAATGAGGGCTCAGGTCTATCCAGGAGGTGCAGGCTCCTGCCAGTTCTCTCACCATCTGCCCGG
CGCCAGCTGCCTCTGGACTTGAGTCTTGAACGTCTCTGTGGCTGCAGGAATTCTCTTCACTCCATTT
GCAGCCAGAGGAAGGTTTCCCCACAGAGGGGGAGAGAAGGCAGTTCTCCAAGACCCCAAGAACCCTC
AGCCAGGTCTGAAGGGCTCAGCATGGCTCAGCACCCAGGGCTGTCTTCAAGCCAGAGAAAGAGAGGCAA
AATGAGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210077 representing NM_024864
 Red=Cloning site Green=Tags(s)

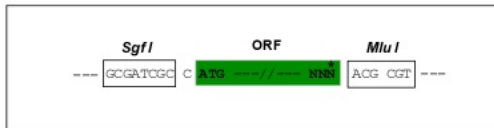
MALLSTVRGATWGRLVTRHFSHAARHGERPGGEELSRLLDDLVPTSRLLELLFGMTPCLLALQAARRSVA
 RLLLQAGKAGLQKRAELLRMAEARDIPVLRPRRQKLDTCRYQVHQVGCMEVSPLRPPWREAGEASPG
 DDPQQLWLVLDGIQDPRNFGAVLRS AHFLGVDK VITSRNNSCPLTPVVS KSSAGAMEVMDV FSTDDL TGF
 LQTKAQQGWL VAGTVGCPSTEDPQSSEIPIMSCLEFLWERPTLLVLGNEGSGLSQEVQASCQLLLTILPR
 RQLPPGLESLNVSVAAGILLHSICSRKGFPTGERRQLLQDPQEPSARSEGLSMAQHPGLSSGPEKERQ
 NEG

TRTRPLE - GFP Tag - V

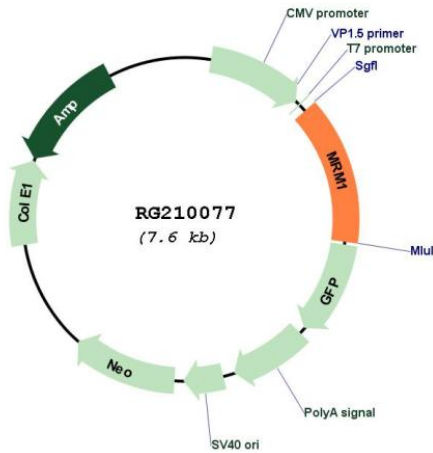
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_024864

ORF Size:	1059 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:	<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:	NM_024864.5
RefSeq Size:	1851 bp
RefSeq ORF:	1062 bp
Locus ID:	79922
UniProt ID:	Q6IN84
Cytogenetics:	17q12
Gene Summary:	S-adenosyl-L-methionine-dependent 2'-O-ribose methyltransferase that catalyzes the formation of 2'-O-methylguanosine at position 1145 (Gm1145) in the 16S mitochondrial large subunit ribosomal RNA (mtLSU rRNA), a universally conserved modification in the peptidyl transferase domain of the mtLSU rRNA.[UniProtKB/Swiss-Prot Function]