

## Product datasheet for MC212659

### Mrm1 (NM\_145433) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Mrm1 (NM\_145433) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: Mrm1  
 Synonyms: A530065E19Rik; ENSMUSG00000054212  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >MC212659 representing NM\_145433  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**C

ATGCGGCGACTCTGGACGGTCGGGTGCTTCAGTCGCCTGATTGCCCGCATTTCTCCTCGGTGGCTCGGC  
 GCGGGGAACGGCCTGGCGGGGAGGAGCTGAGTCGCTTGCTTCTGGATGACCTGGCGCCGGCCAGCGGCT  
 GGAACGTCTATTTGGCTTGTCCTCATGCCTCCTGGCCTTGGGGGTGCCCGTCGGCGCTGGCCCGGCTC  
 CTGCTCCAGGCCGTAAGGCTGGGCTGCAGGGGAGCGAGCCGAGCTGCTCCGGGTGGCCGAGGCTCGGG  
 GCATCCCTGTCTTGAGGCCAGGCGTCAGAACTGGATGCCTTGTGCGGTACCAAGTGCACAGGGCGT  
 GTGCATGGAGGTGAGCCCGCTGCGACCCCGCCTTGCATGAGGCGGCAGACACGAGCTCAGGCGACGAC  
 CCTCAGCAGCTGTGGCTCGTCTTGAGGGGCTCCAGGATCCCCGCAATCTTGGGGCTGTGATGCGCTCCG  
 CTCACTTCTCGGCTAGACAGAGTCATCACCAGCCAGAGAAACAGCTGTCCGCTTACTCCAGTAGTCAG  
 CAAGGCCAGCGCTGGGGCTATGGAGGTGATGGACGTGTTGCCACTCCTGACCTGCCCGTTTTTTGCGAG  
 GCCAAGGCCAGCAGGGGTGGCTCGTGGTGGGCACAGTGGGCTGCCAGGTCCTGAGATCTCCAGTCCT  
 CCAAGTCCCCATCACTAGCTGCTTAGAGTTCGTCTGGACCGCCTACCCTCCTGGTGGGCGAGTGA  
 GGGCTCTGGTCTGTCCAGGAGTTTTTGCCTCCTGCCAGCTGCTCTTACTATTCTGCCAGACGCCAC  
 CTGCCTCCTGGTCTTGAGTCCTGAATGTATCTGTGGCCACAGGATTCTTCTACTACTCCATTTGCAGTC  
 AGAAGAAGGGTTTCCCTGTACAGGAGAGAGGACAATTCTCCAAGACTCCT**G**A

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_145433  
 Insert Size: 963 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_145433.1</a> , <a href="#">NP_663408.2</a>
<b>RefSeq Size:</b>	2490 bp
<b>RefSeq ORF:</b>	963 bp
<b>Locus ID:</b>	217038
<b>UniProt ID:</b>	<a href="#">Q99J25</a>
<b>Cytogenetics:</b>	11 C
<b>Gene Summary:</b>	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]