

## Product datasheet for **SC322036**

### MRM1 (NM\_024864) Human Untagged Clone

#### Product data:

|                           |                                       |
|---------------------------|---------------------------------------|
| Product Type:             | Expression Plasmids                   |
| Product Name:             | MRM1 (NM_024864) Human Untagged Clone |
| Tag:                      | Tag Free                              |
| Symbol:                   | MRM1                                  |
| Mammalian Cell Selection: | Neomycin                              |
| Vector:                   | pCMV6-AC (PS100020)                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                |



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**Fully Sequenced ORF:** >OriGene sequence for SC322036  
 ATCGGGGCTGTTTGTTCCTGTCCGAGAGAGCTCGGCGGAGACGGCTGTCGAGTACCCTTC  
 ACCTCGGTGTTGGGAGCCTGGGAGCGAACTGCGGCGCGGGTTACCGCTCCCGGGGACGCA  
 GCAAGGGGCATCGAGTCCCTGGCGGGAGCTGCGCCATGGCATTGCTCTCGACCGTCCGGG  
 GCGCGACTGGGGTGCCTCGTACCCGTCATTCTCCCATGCAGCGCGGCATGGGGAGC  
 GGCTGGTGGGGAGGAGTAAGCCGCTTGTCTGGATGACCTGGTGCCGACCTCTCGG  
 TGGAGCTTCTGTTTGGCATGACCCGCTCTCCTGGCTCTGAGGCCGCCCGCCGCTCTG  
 TGGCCCGCTCCTGCTCCAGGCGGTAAGCTGGGCTGCAGGGGAAGCGGGCCGAGCTGC  
 TCCGGATGGCCGAGGCGCGGGACATTCCAGTTCTGCGGCCAGACGGCAGAAACTGGACA  
 CAATGTGCCGCTACCAGGTCCACCAGGGTGTCTGCATGGAGGTGAGCCCGCTGCGGCCCC  
 GGCCTTGAGAGAGGCGGGGAGGCGAGCCAGGCGACGACCCCCAGCAGTTGTGGCTCG  
 TCCTCGATGGGATCCAGGATCCCCGGAATTTGGGGCTGTGCTGCGTTCCGCACACTTCC  
 TCGGAGTGGATAAGGTCATACCAGCCGAGAAACAGCTGCCCGCTCACTCCAGTAGTCA  
 GCAAGTCCAGCGGGGGCTATGGAGGTGATGGACGTGTTCTCCACTGATGACCTACCCG  
 GATTTTTACAGACCAAAGCCAGCAGGGCTGGCTCGTGGCCGGCACGGTGGGCTGCCAA  
 GCACAGAGGATCCCCAGTCCCTCCGAGATCCCCATCATGAGTTGCTTGGAGTTCCTCTGGG  
 AACGGCCTACTCTCCTTGTGCTGGGGAATGAGGGCTCAGGTCTATCCCAGGAGGTGCAGG  
 CCTCTGCCAGCTTCTCCTCACCATCCTGCCCCGGCGCCAGCTGCCTCCTGGACTTGAGT  
 CTTGAACGTCTCTGTGGCTGCAGGAATTTCTTCTCACTCCATTTGCAGCCAGAGGAAGG  
 GTTTCCCCACAGAGGGGGAGAGAAGGCAGCTTCTCAAGACCCCCAAGAACCCTCAGCCA  
 GGTCTGAAGGGCTCAGCATGGCTCAGCACCCAGGGCTGTCTTCAAGCCAGAGAAAGAGA  
 GGCAAAATGAGGGCTGACATGGACTGTCCACAGTTCATGTGCTGGAGTCAGGGACGGC  
 CGCACCTGCCTCCGCGGCTCCAGTGTGCGGGGAGCCTCTGCCTGAGTGTGCCACCGCC  
 CATGTTTTATTGACCACAGTCTGGGGGGGGAAGGGGACTGCGGTGGACACCAGAGGAA  
 GCTGTTTCTGTTGTGATGTTGGACCTGTAGTAGGACATGGTATTGTTAATTTCCATG  
 GGAAGCCATGATGGCCTAGCATGGAGGGAATCTGTTCCAGGCCCTGCCTGGAAGTTGAG  
 GGAAAGTTTAGACATCTGCAGAGAGGCAGGCAGCCAGCCAGGGGACCCGTTCTCTTG  
 AACAGTCATTGCCTGTGGCAAATGTGTGTATGAGAATGTGGGGGTGGAGGGCGGGGCC  
 CTGATGTGGAGTAGACAGTGCACCTCAGGCCACACACGGCCCCGCCCTGGGGCCTTG  
 AGCGCAGGCTCATCTTTTTGTGCCGCGGACTCCGCACCTACCTCACAGGGTTGTGTG  
 AGGCTCAATAAAACATCACTCAGCACGTGGGAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_024864

**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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_024864.3](#), [NP\\_079140.2](#)

**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]