

## Product datasheet for MR217372

### Mrm1 (NM\_145433) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mrm1 (NM_145433) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mrm1
Synonyms:	A530065E19Rik; ENSMUSG00000054212
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217372 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGCGACTCTGGACGGTCGGGTGCTTCAGTCGCCTGATTGCCGCCATTTCTCCTCGGTGGCTCGGC  
GCGGGGAACGGCCTGGCGGGGAGGAGCTGAGTCGCTTGCTTCTGGATGACCTGGCGCCGGCCAGCGGCT  
GGAACGTCTATTTGGCTTGTCCTCATGCCTCCTGGCCTTGGGGCTGCCCGTGGCGCGTGGCCCGGCTC  
CTGCTCCAGGCCGTAAGGCTGGGCTGCAGGGGAGCGAGCCGAGCTGCTCCGGGTGGCCGAGGCTCGGG  
GCATCCCTGTCTTGAGGCCAGGCGTCAGAACTGGATGCCTTGTGCGGCTACCAAGTGCACCAGGGCGT  
GTGCATGGAGGTGAGCCGCTGCGACCCCGCCTTGCGATGAGGGCGCAGACACGAGCTCAGGCGACGAC  
CCTCAGCAGCTGTGGCTCGTCTTGAGGGGCTCCAGGATCCCCGCAATCTTGGGGCTGTGATGCGCTCCG  
CTCACTTCTCGGCGTAGACAGAGTCATCACCAGCCAGAGAAACAGCTGTCCGCTTACTCCAGTAGTCAG  
CAAGGCCAGCGCTGGGGCTATGGAGGTGATGGACGTGTTGCCACTCCTGACCTGCCCGTTTTTTGCGAG  
GCCAAGGCCAGCAGGGGTGGCTCGTGGTGGGCACAGTGGGCTGCCAGGTCCTGAGATCTCCAGTCCT  
CCAAGTCCCCATCACTAGCTGCTTAGAGTTCGTCTGGGACCGGCCTACCCTCCTGGTGTGGGCAGTGA  
GGGCTCTGGTCTGTCCCAGGAGTTTTTGCCTCCTGCCAGCTGCTCCTTACTATTCTGCCAGACGCCAC  
CTGCCTCCTGGTCTTGATCCTGAATGTATCTGTGCCACAGGTATTCTTCTACTCCATTTGCGATC  
AGAAGAAGGGTTCCCTGTACAGGAGAGAGGACAATTCTCCAAGACTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR217372 protein sequence  
 Red=Cloning site Green=Tags(s)

MRRLWTVGCF SRLIARHFSSVARRGERPGGEEL SRLLLDDLAPAQLERL FGLSPCLLALRAARRRVARL  
 LLQAGKAGLQGERAELLRVAEARGIPVLRPRRQKLDALCGYQVHQVGCMEVSPLRPRPCDEADTSSGDD  
 PQLLWL VLEGLQDPRNLGAVMRS AHFLGVDRVIT SQRNSCPLTPVVS KASAGAMEVMDVFATPDLPGFLQ  
 AKAQQGWL VVGTVGC PGPEISQSSKVPITSCLEFVWDRPTLLVLGSEGSLSQEVFASCQLLLTILPRRH  
 LPPGLES LNVS VATGILLHSICSQKKGFPVQER GQLLQDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_145433

**ORF Size:** 963 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\\_145433.1](#), [NP\\_663408.2](#)

**RefSeq Size:** 2490 bp

**RefSeq ORF:** 963 bp

**Locus ID:** 217038

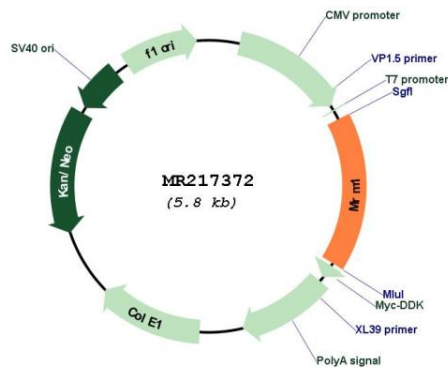
**UniProt ID:** [Q99J25](#)

**Cytogenetics:** 11 C

**MW:** 34.8 kDa

**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]

## Product images:



Circular map for MR217372