

## Product datasheet for **MG204412**

### Mrm3 (NM\_183263) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Mrm3 (NM_183263) Mouse Tagged ORF Clone                                     |
| Tag:                      | TurboGFP  |
| Symbol:                   | Mrm3  |
| Synonyms:                 | 4833420N02Rik; AI255153; HC90; Rnmtl1                                       |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >MG204412 representing NM_183263<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAATAGTTAAGTCCAGGCCTTTTCGGGAAAAGCAAGGGAAGATCCTACTGGAAGGTCGAGGCTGA  
TTGCAGATGCTCTCAAGGCTGGAGCTGTGCCAAAGCGTTCTTTTTAGCCGTCTGGAGTACGTCAAGGA  
GTTGCCGGTAGACAAGCTGAAAGACGTCAGCCTCATTAAAGTGAAATTTGAGGACATCAAGGATTGGTCA  
GACCTAGTAACGCCACAAGGAATAATGGGGATTTTTCGCAACCTGACCCTGTTAAGATGACATATCCAG  
AGACTCCGCTTACCATACTGCCCTAGTGTGATTTGTGACAATCTCCGTGACCCTGGGAACCTGGG  
GACAATCCTGAGATCTGCAGCTGGAGCAGGCTGCAGTAAAGTCTTACTACCAAAGGCTGTGTGGATGCC  
TGGGAGCCTAAAGTGCTCCGGGCAGGCATGGGGGCACATTTCCAGGTACCCATTGTGAACAATGTGGAAT  
GGGAAACAGTGCCCAATCACTTGCCCTCCTGACACTCGAGTCTATGTGGCAGACAACCTGTGGTCACTATGC  
CCAGGTTCCAGATGTCTGATAAAACCGGTGACCGTACTGGGCATGTGATCGCCGATTCTTAAAGTTTAC  
AAGTATGAAGAGGACCTAGACACTAAAACAGAAAGGACTGGCTGCCAAACTTGAGGTCCAGAGTTATG  
ATTTGGACTGGACAGGAGCACCAGCAGCTGTGGTATAGGTGGGAGACGCATGGAGTGAGCCTGGAATC  
CCTGCAACTGGCCGAGAGTACCGGTGGCAAGAGACTGCTGATCCCCGTTGTACCTGGTGTGGACAGTCTG  
AACTCAGCCATGGCTGCGAGCATCTGCTCTTTGAAGGGAAAAGGCAGCTGAGGATAAAGGTGGAAGACT  
TGAGCAGGGACAGGAGTTACCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204412 representing NM\_183263  
 Red=Cloning site Green=Tags(s)

MTIVKSRPFREKQGKILLEGRRLIADALKAGAVPKAFFFSRLEYVKELPVDKLDVSLIKVKFEDIKDWSDLVTPQGIMGIFAKPDPVKMTYPETPLHHTLPLVLCNDLRDPGNLGTILRSAAGAGCSKVLLTKGCVDAWEPKVL RAGMGAHFQVPIVNNVETVPNHLPPDTRVYVADNCGHYAQVQMSDKTGDRDWACDRRFLKFHKYEEDLDTKTRKDWLPKLEVQSYDLDTWGAPAAVVIGGETHGVLSLESLQLAESTGGKRLIPVVPGVDSLNSAMAASILLFEGKRLRIKVEDLSRDRSYH

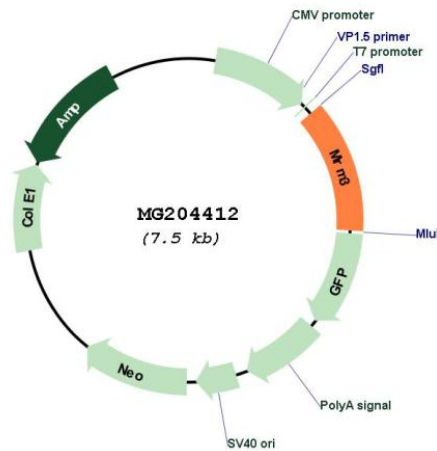
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_183263

ORF Size: 933 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <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_183263.4</a>   |
| <b>RefSeq Size:</b>           | 1458 bp   |
| <b>RefSeq ORF:</b>            | 1257 bp   |
| <b>Locus ID:</b>              | 67390   |
| <b>UniProt ID:</b>            | <a href="#">Q5ND52</a>  |
| <b>Cytogenetics:</b>          | 11 B5   |
| <b>Gene Summary:</b>          | S-adenosyl-L-methionine-dependent 2'-O-ribose methyltransferase that catalyzes the formation of 2'-O-methylguanosine at position 1370 (Gm1370) in the 16S mitochondrial large subunit ribosomal RNA (mtLSU rRNA), a conserved modification in the peptidyl transferase domain of the mtLSU rRNA.[UniProtKB/Swiss-Prot Function]   |