

## Product datasheet for **MG217716**

### Rnmt (NM\_001170953) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rnmt (NM_001170953) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rnmt
Synonyms:	2610002P10Rik; AI848273; mKIAA0398; Rg7mt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217716 representing NM_001170953 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGTTCCGCGAAAGCGTCAGTCGCTTCTGACCCAGAGTCCCCTCCAGGTGGTAATGAGCCCCTG  
CTGCCTCTGGGCAGAGGCTTCCAGAAAATACTCCTCCATGCCAGCAAGTAGATCAGCCAAAAATGCAGAA  
GGAGTTTGGGGAGGATCTGTAGAGCAAATTCGAGTTATGTGCAAGATTCTCCATCCAAGAAAAGGAAA  
CTTGATGTTGAAATCATCTTAGAGGAAAAGCACTCTGAGGATGATGGAGTTCGGCAAAGAGAAGCAAAC  
TGAAAGAGGTGATGTGTCGGAAGATGAGCCTTCCCTTGGTAGGCTTAACCAGACCAAGAGAAAAGTCA  
GCCTCAGGACGATGAGGTACCGCAGAAGTTCAGAAAGCTGGAGGAAGGACACAGCTCAGCCGTGGCTGCC  
CACTATAATGAGCTTCAAGAAAGTTGGCCTGGCGAAGCGTAGTCAAAGTCGCATTTTTTACCTAAGAACT  
TCAATAATTGGATTAAAAGTATTCTGATTGGGAAATTTAGAAAAGGTACGACAAAAGAAAACCCGTGA  
CATCACTGTTTTGGACCTGGGATGTGAAAAGGTGGAGATTTGCTCAAGTGGAGGAAGGGGAGAATTAGC  
AGGCTAGTGTGTGCTGATATCGCTGATATTTCTATGAAACAATGTCAACAGCGTTACGAAGACATGAGAT  
GTCGTCGCGATAATGAGCATATTTTTAGTGCAGAAATTTAACTGCTGACTGTTCAAAGGAACTTTTGGT  
TGAAAAATCCGTGACCCAGAAATGTACTTTGATGTCTGCAGCTGCCAGTTTGTGGCCATTACTCCTTT  
GAGTCCCAGGTGCAGCCGATACGATGCTTAGAAATGCCTGCGGAGGCTTAACCTGGCGCTATTTTA  
TTGGCACCCTCCAATAGCTTTGAAGTATAATGGCAAAGAAGTATAATGAAACTAATCTACAAAAA  
AACATTTTTGGAATCTATGAAGAAAAGATTAATAACAATGAAAACAAAATGCTCTTAAAACGAATGCAG  
GCCCTGGAGCAATACCCTGCACATGAGAACTCTAACTTGCCTCTGAAAAGGTGGGTGACTACACGCATG  
CAGCAGAGTACCTGAAGAAGAGCCAAGTGAAGTTACCTCTGGGAACCTTAAGTAAGTCAGAATGGGAAGC  
TACAAGTATCTACTTGGTCTTTGCCTTTGAGAAGCAGCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG217716 representing NM\_001170953  
 Red=Cloning site Green=Tags(s)

MEGSAKASVADPESPPGGNEPAAASGQRLPENTPPCQQVDQPKMQKEFGEDLVEQNSSYVQDSPSKKRK  
 LDVEIILEEKHSEDDGGS AKRSKLERGDVSEDEPSLGRNLQTKRKLQPQDDEVPQKLQKLEEGHSSAVAA  
 HYNELQEVGLAKRSQSRIFYLRNFNNWIKSILIGEILEKVRQRKTRDITVLDLGGCKGGDLLKWRKGRIS  
 RLVCAADIADISMKQCQQRVEDMRCRRDNEHIFSAEFITADCSKELLVEKFRDPEMYFDVCSQCQFACHYSF  
 ESQVQADTMLRNACGRNLNPGGYF IGTTPNPSEFELIMAKKYNMKLIYKKTFLFYEKIKNNENKMLLKRMQ  
 ALEQYPAHENS KLASEKVG DYTHAAEY LKKSQVRLPLGTL SKSEWEATS IYLVFAFEKQQ

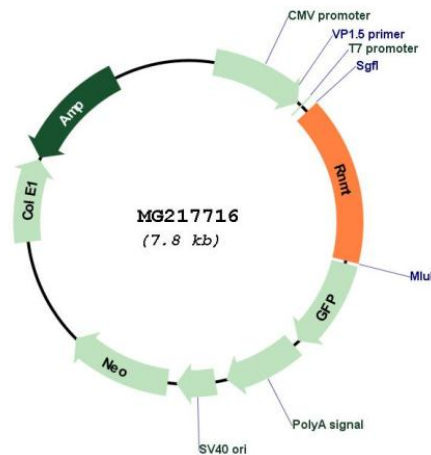
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001170953

<b>ORF Size:</b>	1230 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_001170953.1</a> , <a href="#">NP_001164424.1</a>
<b>RefSeq Size:</b>	4853 bp
<b>RefSeq ORF:</b>	1233 bp
<b>Locus ID:</b>	67897
<b>UniProt ID:</b>	<a href="#">Q9D0L8</a>
<b>Cytogenetics:</b>	18 E2
<b>Gene Summary:</b>	Catalytic subunit of the mRNA-capping methyltransferase RNMT:RAMAC complex that methylates the N7 position of the added guanosine to the 5'-cap structure of mRNAs. Binds RNA containing 5'-terminal GpppC.[UniProtKB/Swiss-Prot Function]