

## Product datasheet for **MG216144**

### Trmt61a (NM\_177374) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Trmt61a
Synonyms:	6720458F09Rik; A1606093; Gcd14; Trm61
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >MG216144 representing NM\_177374  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGTTTCGTGGCATAACGAGGAGCTGATCAAGGAAGGCGACACAGCCATCCTGTCCTGGGGCACGGCT  
CGATGGTAGCAGTGCCTGTGCAGCGTGGGGCACAGACCCAGACCCGGCATGGCGTCTGAGGCACTCGGT  
GGACCTCATTGGCCGCCATTTGGCTCCAAGGTGATTTGCAGCAGAGGCGGCTGGGTGTATGTGCTGCAC  
CCCCTCCTGAGCTCTGGACAGTGAACCTGCCCCACCGCACGCAGATCCTCTACTCCACCGACATTGCCT  
TGATACCATGATGCTGGAGCTGCGTCCCGGTTCTGTGGTCTGTGAATCAGGCACGGGCACTGGTTCTGT  
ATCCCACGCAATCATCCGACGCTTGGCCCACTGGCCACCTACACACAGTAGAGTTCCACCAAGCAACGG  
GCGGACAAGGCCCGGGAGGAATCCAGGAGCATCGGCTGAGCCAGTGGGTGACTGTGCACACCCAGGATG  
TGTGCTGCAGTGGCTTCGGTGTGGTCCACGTGGCTGACGCTGTCTTCTGGATATCCCATCACCCGGGA  
AGCTGTGGGCCATGCCTGGGATGCCCTCAAGGTTGAAGGTGGGCGTTTCTGCTCCTTCTCCGTGCATT  
GAGCAGGTGCAGCGGACATGCCAGGCGCTGGCAGCCATGGCTTACAGAGCTTAGCACCCCTGGAGGTAC  
TGCCACAGGTCTACAATGTGCGCACTGTCAGTCTGCCCTTGCCCGACCTGGGGGCAACAACCTTAGAGAC  
CAACATGGGCTCTGATGCCAGCCCCCTCCGTAGTGGCACACCCATGAAGGAGACTGTGGGCCACTGTC  
TACCTGACTTTTGCCACTAAAACCCAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



**Protein Sequence:** >MG216144 representing NM\_177374  
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MSFVAYEELIKEGDTAILSLGHGSMVAVRVQRGAQTQTRHGVLRHVSVDLIGRPFSGKVICSRGGWVYVLH  
 PTPELWTVNLPHRTQILYSTDIALITMMLELRPGSVVCESGTGSGSVSHAIIRSVAPTGHLHTVEFHQQR  
 ADKAREEFQEHLRSLQWVTVHTQDVCCSGFGVVHVADAVFLDIPSPWEAVGHAWDALKVEGGFRFCFSPCI  
 EQVQRTCQALAAHGFTLSTLEVLPQVYVNVRTVSLPLPDLGANNLETNMGSDASPFRRSGTPMKETVGHGT  
 YLTFATKTPG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_177374

**ORF Size:** 870 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_177374.4](#), [NP\\_796348.2](#)

**RefSeq Size:** 2441 bp

**RefSeq ORF:** 873 bp

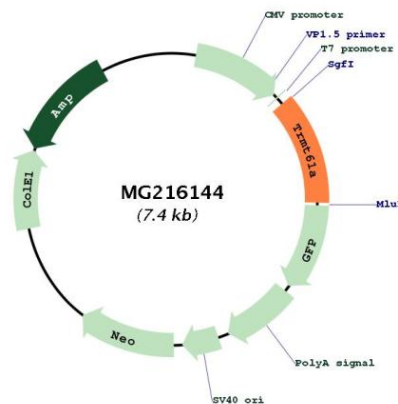
**Locus ID:** 328162

**UniProt ID:** [Q80XC2](#)

**Cytogenetics:** 12 F1

**Gene Summary:** Catalytic subunit of tRNA (adenine-N(1)-)-methyltransferase, which catalyzes the formation of N(1)-methyladenine at position 58 (m1A58) in initiator methionyl-tRNA. Catalytic subunit of mRNA N(1)-methyltransferase complex, which mediates methylation of adenosine residues at the N(1) position of a small subset of mRNAs: N(1) methylation takes place in tRNA T-loop-like structures of mRNAs and is only present at low stoichiometries. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG216144