

Product datasheet for **RG204071**

C14orf172 (TRMT61A) (NM_152307) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C14orf172 (TRMT61A) (NM_152307) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C14orf172
Synonyms:	C14orf172; GCD14; Gcd14p; hTRM61; TRM61
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204071 representing NM_152307 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTTCGTGGCATACGAGGAGCTGATCAAGGAGGGTGACACGGCCATCCTGTCACTGGGCCATGGTG
CAATGGTGGCAGTGCCTGTGCAGCGTGGGGCACAGACCCAGACCCGGCATGGTGTCTGCGGCACTCAGT
TGACCTTATCGGCCGCCCTTCGGCTCCAAGGTGACGTGCGGCCGAGGTGGCTGGGTGTATGTGCTGCAC
CCCACGCCGAGCTCTGGACGCTGAACCTGCCGACCGCACGCAGATCCTCTACTCCACAGACATCGCCC
TCATCACCATGATGTTGGAGCTTCGGCCCGGCTCTGTGGTCTGTGAGTCTGGCACCGGCAGTGGCTCTGT
GTCCACGCCATCATCCGCACCATTCACCCACGGGTACCTGCACACGGTGGAGTTCACACGAGCAGCGG
GCAGAGAAGGCCCGGGAGGAGTTCCAGGAGCACCGTGTGGGCCGCTGGGTGACTGTGCGCACCCAGGACG
TGTGCCGCACTGGCTTTGGCGTGAGCCACGTGGCCGACGCGCTTCTCTGGACATCCCATCACCTGGGA
GGCCGTGGGCCACGCCTGGGACGCCCTCAAGGTGAAGGCGGGCGCTTCTGCTCCTTCTACCGTGCATC
GAGCAGGTGAACGCACATGCCAGGCGCTGGCAGCGCGCGGCTTCTCAGAGCTGAGCACCTGGAGGTGC
TGCCACAGGTCTACAACGTGCGCACTGTCAGCCTGCCACCGCCGACCTGGGCACAGGCACAGATGGCCC
TGCCGGCTCCGACACAGCCCCCTCCGACGCGGCACGCCCATGAAGGAGGCCGTGGGCCACACCGGCTAC
CTGACCTTCGCCACCAAGACCCAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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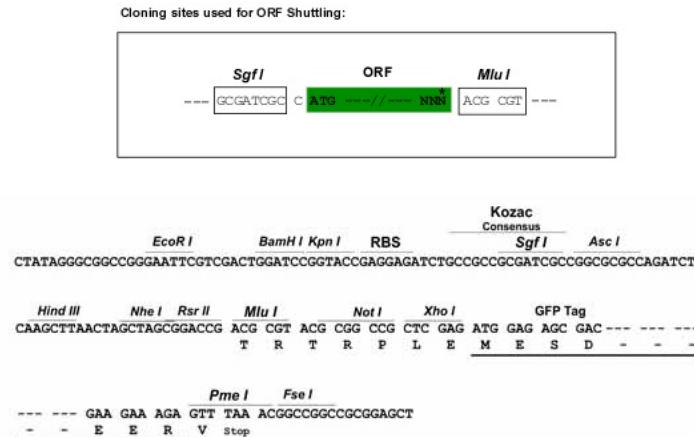
Protein Sequence: >RG204071 representing NM_152307
 Red=Cloning site Green=Tags(s)

MSFVAYEELIKEGDTAILSLGHGAMVAVRVQRGAQTQTRHGVLRHSDVLI GRPFGSKVTCGRGGWVYVLH
 PTPELWTLNLPHTQILYSTDIALITMMLELRPGSVVCESGTGSGSVSHAIIRTIAPTGH LHTVEFHQQR
 AEKAREEFQEHVRVGRWTVRTQDVCRSGFGVSHVADAVFLDIPSPWEAVGHAWDALKVEGGRFCSPCI
 EQVQRTCQALAARGFSELSTLEVL PQVYNVRTVSLPPDLGTGTDGPAGSDTSPFRSGTPMKEAVGHTGY
 LTFATKTPG

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152307

ORF Size: 867 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_152307.2](#), [NP_689520.2](#)

RefSeq Size: 3257 bp

RefSeq ORF: 870 bp

Locus ID: 115708

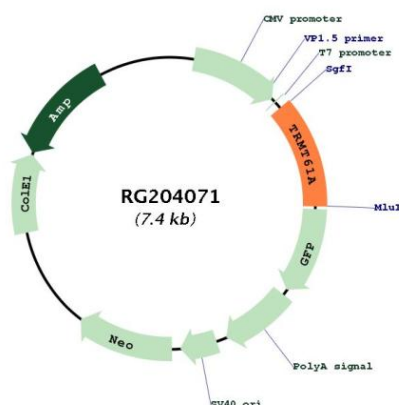
UniProt ID: [Q96FX7](#)

Cytogenetics: 14q32.33

Protein Families: Druggable Genome

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 (PubMed:16043508). 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 (PubMed:29107537, PubMed:29072297).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204071