

Product datasheet for **RG227158**

TRM1 (TRMT1) (NM_001142554) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRM1 (TRMT1) (NM_001142554) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRMT1
Synonyms:	MRT68; TRM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227158 representing NM_001142554
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAAGGATCGTCTCTGTGGCTAAGCCTCACTTCCGCTCCGCCGGGTGCTCTAGAGCCCGTTTTT
 TCGAGTGGCAGTCTCCAGGGCTGCCGAATACAGCAGCGATGGAGAACGGCACCGGCCCTACGGAGAAGA
 ACGTCCACGTGAAGTCCAGGAGACGACAGTCACCGAGGGGGCTGCCAAAAATCGCCTTTCCAGTGCCAAC
 GAGGTCTTTTATAACCCGGTGCAGGAATCAATCGGGACCTGACATGTGCTGTGATCACCGAGTTTGCTC
 GCATTCAGCTTGGGGCCAAAGGAATCCAGATCAAGGTTCCAGGAGAGAAGGACACGCAAAAAGTGGTCGT
 GGACTTGTGAGCAAGAGGAGGAAAAGGTTGAACTGAAAGAGAGTGAAAACCTGGCCTCAGGAGACCAA
 CCTCGCACAGCGCCGTGGGGGAGATCTGTGAGGAAGGCTGCATGTGCTGGAAGGCTGGCAGCTTCAG
 GCCTACGTTCCATTCGATTTGCCCTAGAGGTGCCTGGGCTCAGATCTGTGTTGCAAACGATGCCTCCAC
 CCGGGCTGTGGATCTCATACGCCGAATGTCCAGCTCAATGACGTGGCCACCTGGTACAGCCGAGCCAA
 GCAGATGCCCGGATGCTGATGTACCAGCACAGAGGGTGTCCGAGAGGTTTGACGTCATCGATCTGGACC
 CCTATGGCAGCCAGCCACCTTCTGGATGCAGCTGTGCAGGCTGTGAGTGAAGGAGGGTTGCTGTGTGT
 GACCTGCACAGACATGGCGGTGTTGGCGGGGAACAGCGGGGAGACGTGCTACAGCAAGTACGGGGCCATG
 GCCCTCAAGAGCCGGGCTGCCACGAGATGGCCCTGAGAAATCGTCTGCACAGCTGGACCTCCGCGCCA
 ACTGCTACCAGCGCTTCGTGGTGGCCTGCTCAGCATCAGCGTGACTTCTACGTGCGTGTTTTTGTCCG
 TGTCTTACCAGCCAGGCCAAGGTCAAGGCTCAGCCAGGGCCAAGTTCTCTGCAGCCTGTGGTCCCCT
 GTGACCCCGAGTGTGAACACTGTGGGCAACGACACCAGCTTGGTGGCCCATGTGGCAGAGCCCATCC
 ATGACCTGGATTTGTGGCCGTCTCTGGAGGCTGTGAGCGCTAACCCCGCCGCTTCCACACCTCGGA
 GCGGATCCGAGGGGTCTGAGCGTCATCACTGAGGAGCTCCCGGACGTGCCTCTGTACTACACCCTGGAC
 CAGCTGAGCAGCACCATCCACTGCAACACACCAAGCCTCTGCAGTTGCGGTGCGCCCTCTCCACGCTG
 ACTTCCGGTCTCACTCTCCACGCTGTAAGAAGCTGTGAAGACGGATGCCCTGCCTCTGCCCTCTG
 GGACATCATGCGTTGCTGGGAGAAGGAATGTCCGGTGAACGGGAGCGACTATCAGAGACTAGCCACGG
 TTCCGATTCTCAGTGTGGAGCCAGGCTGCAGGCCAATTCACCATCCGGGAAGATGCCAACCCAGCT
 CCCGACAGCGAGGACTCAAGCGCTTCCAGGCTAACCCGGAGGCCAAGTGGGTCCCGGCTCGTCCCCG
 GCCAGGGGCAAGGCGGCGACGAAGCTATGGAGGAGAGACGAGGCTGCTTCAAGCAAGCGGAAGGAG
 CCGCCGGAAGATGTGGCCAGCGGGCTGCCGGCTCAAGACATTTCTTGAAGAGGTTTAAAGGAGGCA
 CCTGTCAACGCGGGACAGTGCTACTCCACAGCCCCCGACCCAGGGTTTCTGCTGATGCTGC
 CCCTGACTGTCCAGAGACCTCAACACAGACCCCCCTGGACCTGGGGCTGCCGCTGGGCCAGGCATAGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227158 representing NM_001142554
 Red=Cloning site Green=Tags(s)

MQGSSLWLSLTFRSARVLSRARFFEWQSPGLPNTAAMENGTGPYGEERPREVQETTIVTEGAAKIAFP
 SAN EVFYNPVQEFNRDLTCAVITEFARIQLGAKGIQIKVPGEKDTQKVVVDLSEQEEKVELKESEN
 LASGDQ PRTAAVGEICEEGLHVLEGLAASGLRSIRFALEVPGLRSVVANDASTRAVDLIRRNVQLNDVAHLVQPSQ
 ADARMLMYQHQRVSRFDVIDLDPYGPATFLDAAVQAVSEGGLLCVTCTDMAVLAGNSGETCYSKYGAM
 ALKSRACHEMALRIVLHSLDLRANCYQRFVPLLSISADFVYRVFVRFVVGQAKVKASARAKFSAACGPP
 VTPECEHCQRHQLGGPMWAEPIDHLDLVGRVLEAVSANPGRFHTSERIRGVL SVITEELPDVPLYYTLD
 QLSSTIHCNTPSLLQLRSALLHADFRVSLSHACKNAVKTDPASALWDIMRCWEKECPVKRERLSETSPA
 FRILSVEPRLQANFTIREDANPSSRQRGLKRFQANPEANWGRPRRARPGGKAADEAMEERRLLQNKRKE
 PPEVDVAQRAARLKTFFCKRFKEGTCQRGDQCCYSHSPPTPRVSADAAPDCPETSNTQPPGPGAAAGPGID

TRTRPLE – GFP Tag – V

Restriction Sites:

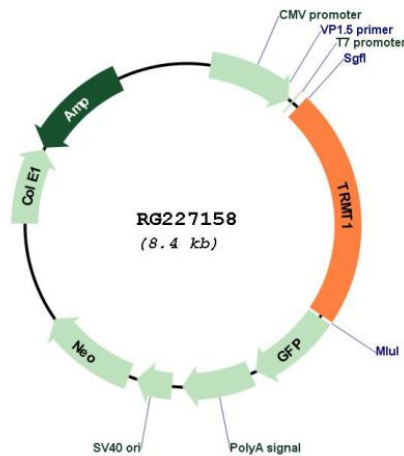
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001142554

ORF Size: 1890 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:	<ol style="list-style-type: none">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_001142554.3
RefSeq Size:	2195 bp
RefSeq ORF:	1893 bp
Locus ID:	55621
UniProt ID:	Q9NXH9
Cytogenetics:	19p13.13
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a tRNA-modifying enzyme that acts as a dimethyltransferase, modifying a single guanine residue at position 26 of the tRNA. The encoded enzyme has both mono- and dimethylase activity when exogenously expressed, and uses S-adenosyl methionine as a methyl donor. The C-terminal region of the encoded protein has both a zinc finger motif, and an arginine/proline-rich region. Mutations in this gene have been implicated in autosomal recessive intellectual disorder (ARID). Alternative splicing results in multiple transcript variants encoding different isoforms. There is a pseudogene of this gene on the X chromosome. [provided by RefSeq, May 2017]