

Product datasheet for **SC325248**

TRM1 (TRMT1) (NM_001142554) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRM1 (TRMT1) (NM_001142554) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRMT1
Synonyms:	MRT68; TRM1
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001142554, the custom clone sequence may differ by one or more nucleotides

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ATGCAAGGATCGTCTCTGTGGCTAAGCCTCACTTCCGCTCCGCCGGGTGCTCTCTAGA
GCCCGTTTTTCGAGTGGCAGTCTCCAGGGCTGCCAATACAGCAGCGATGGAGAACGGC
ACCGGGCCCTACGGAGAAGAACGTCCACGTGAAGTCCAGGAGACGACAGTCAACGAGGGG
GCTGCCAAAATCGCCTTTCCAGTGCCAACGAGGTCTTTATAACCCGGTGCAGGAATTC
AATCGGGACCTGACATGTGCTGTGATCACCGAGTTTGTCTGCATTAGCTTGGGGCCAAA
GGAATCCAGATCAAGGTTCCAGGAGAGAAGGACACGCAAAAAGTGGTCGTGGACTTGTCA
GAGCAAGAGGAGGAAAAGGTTGAACTGAAAGAGAGTGAAAACCTGGCCTCAGGAGACCAA
CCTCGCACAGCGCCGTGGGGGAGATCTGTGAGGAAGGCCTGCATGTGCTGGAAGCCTG
GCAGCTTCAGGCCTACGTTCCATTTCGATTTGCCCTAGAGGTGCCTGGGCTCAGATCTGTG
GTTGCAAACGATGCCTCCACCCGGGCTGTGGATCTCATAACGCCGAATGTCCAGCTCAAT
GACGTGGCCACCTGGTACAGCCGAGCCAAGCAGATGCCCGGATGCTGATGTACCAGCAC
CAGAGGGTGTGAGAGAGGTTTGACGTATCGATCTGGACCCTATGGCAGCCAGCCACC
TTCTGGATGCAGCTGTGAGGCTGTGAGTGAAGGAGGGTTGCTGTGTGACCTGCACA
GACATGGCGGTGTTGGCGGGGAACAGCGGGGAGACGTGCTACAGCAAGTACGGGGCCATG
GCCCTCAAGAGCCGGGCCTGCCACGAGATGGCCCTGAGAATCGTCTGCACAGCCTGGAC
CTCCGCGCAACTGCTACCAGCGCTTCGTGGTGGCCTGCTCAGCATCAGCGTGACTTC
TACGTGCGTGTTCGTCCGTGCTTCCACCGCCAGGCCAAGGTCAAGGCCTCAGCCAGG
GCCAAGTTCTCTCGACGCTGTGGTCCCCCTGTGACCCCGAGTGTGAACACTGTGGGCAA
CGACACCAGCTTGGTGGCCCCATGTGGGCAGAGCCCATCCATGACCTGGATTTTGTGGGC
CGTGTCTGGAGGCTGTGAGCGCTAACCCCGCCGCTTCCACACCTCGGAGCGGATCCGA
GGGGCTCTGAGCGTCATCACTGAGGAGCTCCCGACGTGCCTCTGTACTACACCTGGAC
CAGCTGAGCAGCACCATCCACTGCAACACACCAAGCCTCCTGCAGTTGCGGTGCGGCCCTC
CTCCACGCTGACTTCCGGTCTCACTCTCCACGCTGTAAAGAACGCTGTGAAGACGGAT
GCCCTGCCTCTGCCCTCTGGACATCATGCGTTGCTGGGAGAAGGAATGTCCGGTGAAA
CGGGAGCGACTATCAGAGACTAGCCAGCGTTCGCAATTCTCAGTGTGGAGCCAGGCTG
CAGGCCAACTTACCATCCGGGAAGATGCCAACCCAGCTCCCGACAGCGAGGACTCAAG
CGTTCCAGGCTAACCCGAGGCCAACTGGGTCCCCGGCCTCGTCCCGCCAGGGGGC
AAGGCGGCCGACGAAGCTATGGAGGAGAGACGAGGCTGCTTCAAGCAAGCGGAAGGAG
CCGCCGAAGATGTGGCCAGCGGGCTGCCCGCTCAAGACATTTCTTGCAAGAGGTTT
AAGGAGGGCACCTGTCAACGCGGGGACAGTGCTGCTACTCCACAGCCCCCGACACCC
AGGGTTTCTGCTGATGCTGCCCTGACTGTCCAGAGACCTCAACACAGACCCCCCTGGA
CCTGGGGTGGCCTGGGCCAGGCATAGAC

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- Restriction Sites:** Please inquire
- ACCN:** NM_001142554
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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.

RefSeq: [NM_001142554.1](#), [NP_001136026.1](#)

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]

Transcript Variant: This variant (3) lacks an in-frame coding exon, as compared to variant 1. The resulting isoform (2) is shorter than isoform 1. Variants 3 and 4 encode the same isoform (2).