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Product datasheet for SC114002

TRM1 (TRMT1) (NM_017722) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRM1 (TRMT1) (NM_017722) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRM1
Synonyms:	MRT68; TRM1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC114002 sequence for NM_017722 edited (data generated by NextGen Sequencing)

ATGCAAGGATCGTCTCTGTGGCTAAGCCTCACTTTCCGCTCCGCCCGGGTGCTCTCTAGA
GCCCGGTTTTTCGAGTGGCAGTCTCCAGGGCTGCCGAATACAGCAGCGATGGAGAACGGC
ACCGGGCCCTACGGAGAAGAACGTCCACGTGAAGTCCAGGAGACGACAGTCACCGAGGGG
GCTGCCAAAATCGCCTTTCCCAGTGCCAACGAGGTCTTTTATAACCCGGTGCAGGAATTC
AATCGGGACCTGACATGTGCTGTGATCACCGAGTTTGCTCGCATTCAGCTTGGGGCCAAA
GGAATCCAGATCAAGGTTCCAGGAGAGAAGGACACGCAAAAAGTGGTCGTGGACTTGTCA
GAGCAAGAGGAGGAAAAGGTTGAACTGAAAGAGAGTGAAAACCTGGCCTCAGGAGACCAA
CCTCGCACAGCGGCCGTGGGGGAGATCTGTGAGGAAGGCCTGCATGTGCTGGAAGGCCTG
GCAGCTTCAGGCCTACGTTCCATTCGATTTGCCCTAGAGGTGCCTGGGCTCAGATCTGTG
GTTGCAAACGATGCCTCCACCCGGGCTGTGGATCTCATACGCCGGAATGTCCAGCTCAAT
GACGTGGCCCACCTGGTACAGCCGAGCCAAGCAGATGCCCGGATGCTGATGTACCAGCAC
CAGAGGGTGTCGGAGAGGTTTGACGTCATCGATCTGGACCCCTATGGCAGCCCAGCCACC
TTCCTGGATGCAGCTGTGCAGGCTGNNNGTGCAGGAGGGTTGCTGTGTGTGACCTGCACA
GACATGGCGGTGTTGGCGGGGAACAGCGGGGAGACGTGCTACAGCAAGTACGGGGCCATG
GCCCTCAAGAGCCGGGCCTGCCACGAGATGGCCCTGAGAATCGTCCTGCACAGCCTGGAC
CTCCGCGCCAACTGCTACCAGCGCTTCGTGGTGCCGCTGCTCAGCATCAGCGCTGACTTC
TACGTGCGTGTTTTTGTCCGTGTCTTCACCGGCCAGGCCAAGGTCAAGGCCTCAGCCAGC
AAGCAGGCGCTGGTGTTCCAGTGTGTGGGCTGCGGGGCCTTCCACCTTCAGCGTCTCGGC
AAAGCGTCAGGAGTCCCCAGCGGCCGGGCCAAGTTCTCTGCAGCCTGTGGTCCCCCTGTG
ACCCCCGAGTGTGAACACTGTGGGCAACGACACCAGCTTGGTGGCCCCATGTGGGCAGAG
CCCATCCATGACCTGGATTTTGTGGGCCGTGTCCTGGAGGCTGTGAGCGCTAACCCCGGC
CGCTTCCACACCTCGGAGCGGATCCGAGGGGTCCTGAGCGTCATCACTGAGGAGCTCCCG
GACGTGCCTCTGTACTACACCCTGGACCAGCTGAGCAGCACCATCCACTGCAACACACCA
AGCCTCCTGCAGTTGCGGTCGGCCCTCCTCCACGCTGACTTCCGGGTCTCACTCTCCCAC
GCCTGTAAGAACGCTGTGAAGACGGATGCCCCTGCCTCTGCCCTCTGGGACATCATGCGT
TGCTGGGAGAAGGAATGTCCGGTGAAACGGGAGCGACTATCAGAGACTAGCCCAGCGTTC
CGCATTCTCAGTGTGGAGCCCAGGCTGCAGGCCAACTTCACCATCCGGGAAGATGCCAAC
CCCAGCTCCCGACAGCGAGGACTCAAGCGCTTCCAGGCTAACCCGGAGGCCAACTGGGGT
CCCCGGCCTCGTGCCCGGCCAGGGGGCAAGGCGGCCGACGAAGCTATGGAGGAGAGACGC
AGGCTGCTTCAGAACAAGCGGAAGGAGCCGCCGGAAGATGTGGCCCAGCGGGCTGCCCGG
CTCAAGACATTTCCTTGCAAGAGGTTTAAGGAGGGCACCTGTCAACGCGGGGACCAGTGC
TGCTACTCCCACAGCCCCCCGACACCCAGGGTTTCTGCTGATGCTGCCCCTGACTGTCCA
GAGACCTCCAACCAGACCCCCCCTGGACCTGGGGCTGCCGCTGGGCCAGGCATAGACTGA

Clone variation with respect to NM_017722.3
746 t=>n;747 g=>n;748 a=>n;752 a=>c

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_017722 unedited
CACATTTGTATACGACTCACTTATAGGGCGGCCGCGAATTCGCACGAGGGNAAACGTGCA
CCTTGACTAATTCGGTTTTCTGTGGCTACGAGAGCAGGCTTGGCGGGCGGAGGCGCCAGC
GGATGTCTCATGCAAGGATCGTCTCTGTGGCTAAGCCTCACTTTCCGCTCCGCCCGGGTG
CTCTCTAGAGCCCGGTTTTTCGAGTGGCAGTCTCCAGGGCTGCCGAATACAGCAGCGATG
GAGAACGGCACCGGGCCCTACGGAGAAGAACGTCCACGTGAAGTCCAGGAGACGACAGTC
ACCGAGGGGGCTGCCAAAATCGCCTTTCCCAGTGCCAACGAGGTCTTTTATAACCCGGTG
CAGGAATTCAATCGGGACCTGACATGTGCTGTGATCACCGAGTTTGCTCGCATTCAGCTT
GGGGCCAAAGGAATCCAGATCAAGGTTCCAGGAGAGAAGGACACGCAAAAAGTGGTCGTG
GACTTGTCAGAGCAAGAGGAGGAAAAGGTTGAACTGAAAGAGAGTGAAAACCTGGCCTCA
GGAGACCAACCTCGCACAGCGGCCGTGGGGGAGATCTGTGAGGAAGGCCTGCATGTGCTG
GAAGGCCTGGCAGCTTCAGGCCTACGTTCCATTCGATTTGCCCTAGAGGTGCCTGGGCTC
AGATCTGTGGTTGCAAACGATGCCTCCACCCGGGCTGTGGATCTCATACGCCGGAATGTC
CAGCTCAATGACGTGGCCCACCTGGTACAGCCGAGCCAAGCAGATGCCCGGATGCTGATG
TACCAGCACCAGNAGGTGTCGGAGAAGTTTGACGTCATCGATCTGGACCCCTATGGCAGC
CCAGCCACCTTCCTGNATGCANCTGTGCANGCTGGNTGCTGTGTGTGACCTGCACGACAT
GNNCGTGTTNNGCGGNGACANCGNGNAGACGTGCTACAGCAGTACGGNGCCATGGNCCTC
CAGACCNGGCCTN
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_017722 unedited
NNNNNTTACTTGNACCCGGCCGCATNCTANNGATCGGTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTGACGTGACATCTCTTTATTGGTTCAGTCTATGCCTGGCCCAGCGGCAGCCCC
AGGTCCAGGGGGGGTCTGGTTGGAGGTCTCTGGACAGTCAGGGGCAGCATCAGCAGAAAC
CCTGGGTGTCGGGGGGCTGTGGGAGTAGCAGCACTGGTCCCCGCGTTGACAGGTGCCCTC
CTTAAACCTCTTGCAAGGAAATGTCTTGAGCCGGGCAGCCCGCTGGGCCACATCTTCCGG
CGGCTCCTTCCGCTTGTTCTGAAGCAGCCTGCGTCTCTCCTCCATAGCTTCGTCGGCCGC
CTTGCCCCCTGGCCGGGCACGAGGCCGGGGACCCCAGTTGGCCTCCGGGTTAGCCTGGAA
GCGCTTGAGTCCTCGCTGTCGGGAGCTGGGGTTGGCATCTTCCCGGATGGTGAAGTTGGC
CTGCAGCCTGGGCTCCACACTGAGAATGCGGAACGCTGGGCTAGTCTCTGATAGTCGCTC
CCGTTTCACCGGACATTCCTTCTCCCAGCAACGCATGATGTCCCAGAGGGCAAAGGCAGG
GGCATCCGTCTTCACAGCGTTCTTACAGGCGTGGGAGAGTGAGACCCGGAAGTCAGCGTG
GAGGAGGGCCGACCGCAACTGCAGGAGGCTTGGTGTGTTGCAGTGGATGGTGCTGCTCAN
CTGGTCCAGGGTGTAGTACAGAGGCACGTCCGGGAGCTCCTGCGATGGGGGACAGGATGG
GCATGAGTGGAGATGGACCGGCACAGGTGGAGCCCCCCTCCCCGTCACAGGCCGGTTCTC
ACCTTAGAGATGACGCTCAGGACCCCTCGGATCCGGTCCCGAGTGTGGAAGCGCCCGGGG
T
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Restriction Sites: NotI-NotI

ACCN: NM_017722

Insert Size: 2640 bp

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).

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_017722.2, NP_060192.1
RefSeq Size:	2217 bp
RefSeq ORF:	1980 bp
Locus ID:	55621
UniProt ID:	Q9NXH9
Cytogenetics:	19p13.13
Domains:	zf-CCCH, TRM
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 (1) is the longest transcript and encodes the longer isoform (1).