

## Product datasheet for **SC126085**

### TRM1 (TRMT1) (BC018302) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRM1 (TRMT1) (BC018302) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRM1
Synonyms:	FLJ20244; TRM1; TRM1 tRNA methyltransferase 1; TRM1 tRNA methyltransferase 1 homolog (S. cerevisiae)
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for BC018302 edited
GGGCTAGGCAGCGCGGGGAGGGATTTCGGACTCGGGGCGGGCTGCACGAGGGCATCGGCT
CCACAGGGACCAGTCAATCCCAAACGAGGGGATATCAGCTTACCGAGGCCGAGGTTTT
CCTAGTCCCTACCTCATAGATATGTAGGACATCCCGGGCCCGGAATGCGGCTCTCTGAC
CCTCTCTGTGCCCTCCCCGCCCCCGAACCAGGCTTGGCGGGCGGAGGCCAGCGGAT
GTCTCATGCAAGGATCGTCTCTGTGGCTAAGCCTCACTTCCGCTCCGCCGGGTGCTCT
CTAGAGCCCGGTTTTTTCGAGTGGCAGTCTCCAGGGTCCCGAATACAGCAGCGATGGAGA
ACGGCACCGGGCCCTACGGAGAAGAACGTCCACGTGAAGTCCAGGAGACGACAGTACCCG
AGGGGGCTGCCAAAATCGCCTTTCACAGTGCCAAACGAGGTCTTTTATAACCCGGTGACGG
AATTCAATCGGGACCTGACATGTGCTGTGATCACCGAGTTTGTCTCGCATTTCAGCTGGGG
CCAAAGGAATCCAGATCAAGTTCCAGGAGAGAAGGACACGCAAAAAGTGGTCTGGGACT
TGTCAGAGCAAGAGGAGGAAAAGTTGAACTGAAAGAGAGTGAAAACCTGGCCTCAGGAG
ACCAACCTCGCACAGCGGCCGTGGGGGAGATCTGTGAGGAAGGCCTGCATGTGCTGGAAG
GCCTGGCAGCTTCAGGCCTACGTTCCATTTCGATTTGCCCTAGAGGTGCCTGGGCTCAGAT
CTGTGGTTGCAAACGATGCCTCCACCCGGGCTGTGGATCTCATACGCCGGAATGTCCAGC
TCAATGACGTGGCCACCTGGTACAGCCGAGCCAAGCAGATGCCCGGATGCTGATGTACC
AGCACCAGAGGGTGTCCGAGAGGTTTGACGTATCGATCTGGACCCTATGGCAGCCAG
CCACCTTCTGGATGCAGCTGTGCAGGCTGTGAGTGAAGGAGGGTTGCTGTGTGTGACCT
GCACAGACATGGCGGTGTGGCGGGGAACAGCGGGGAGACGTGTACAGCAAGTACGGGG
CCATGGCCCTCAAGAGCCGGGCCGCCACGAGATGGCCCTGAGAACTCGTCTGCACAGCC
TGGACCTCCGCGCAACTGCTACCAGCGCTTCTGGTGGCCGTGCTCAGCATCAGCGCTG
ACTTCTACGTGCGTGTGTGTGTCGTTTACCCGGCCAGGCCAAGTCAAGGCCTCAG
CCAGGGCCAAGTTCTCTGCAGCCTGTGGTCCCCCTGTGACCCCGAGTGTGAACACTGTG
GGCAACGACACCAGCTTGGTGGCCCATGTGGGAGAGCCCATCCATGACCTGGATTTTG
TGGCCGTGTCTCGAGGCTGTGAGCGTAACCCGGCCGCTTCCACACCTCGGAGCGGA
TCCGAGGGTCTGAGCGTCATCACTGAGGAGCTCCCGGACGTGCCTCTGTACTACACC
TGGACCAGCTGAGCAGCACCATCCACTGCAACACACCAAGCCTCCTGCAGTTGCGGTCGG
CCCTCCTCCAGCTGACTTCCGGTCTCACTCTCCACGCCTGTAAGAACGCTGTGAAGA
CGGATGCCCTGCCTCTGCCCTCTGGGACATCATGCGTTGCTGGGAGAAGGAATGTCGG
TAAAACGGGAGCGACTATCAGAGACTAGCCAGCGTTCGCAATTCTCAGTGTGGAGCCCA
GGCTGCAGGCCAACTTACCATCCGGGAAGATGCCAACCCAGCTCCCGACAGCGAGGAC
TCAAGCGCTTCCAGGCTAACCCGAGGCCAACTGGGGTCCCCGGCCTCGTGCCCGGCCAG
GGGGCAAGGCGGCCGACGAAGCTATGGAGGAGAGACGAGGCTGCTTCAAGAAACGCGGA
AGGAGCCGCCGGAAGATGTGGCCAGCGGGCTGCCCGGCTCAAGACATTTCTTGCAAGA
GGTTTAAGGAGGGCACCTGTCAACGCGGGGACAGTGCTGCTACTCCACAGCCCCCGA
CACCCAGGGTTTCTGCTGATGCTGCCCCGACTGTCCAGAGACCTCAACCCAGACCCCC
CTGGACCTGGGGCTGCCGCTGGGCCAGGCATAGACTGAACCAATAAAGAGATGTCACGTC
ACCTTCAAAAAAAAAAAAAA
    
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC018302 unedited CCCCCCGAATCAGGATTTTGTNAATACGAATTCATATGAGGGCGGACCGCGNAATTCA GAATCTNNGGTACCGTCCGGTAATTCCTGGGATATCGTCGACGCCACGCGTCCGGGGCT AGGCAGCGGGGAGGGATTCGGACTCGGGCGGGCCTGCACGAGGGCATCGGCTCCACA GGGACCAGTCATCCCCAAAACGAGGGGATATCAGCTTACCGAGGCCGAGTTTTCTAG TCCCTACCTCATAGATATGTAGGACATCCCCGGGCCCGAATGCGGCTCTCTGACCCTCT CTGTGCCCTCCCCCGCCCCGAACAGGCTTGGCGGGCGGAGGCCAGCGGATGTCTC ATGCAAGGATCGTCTGTGGCTAAGCCTCACTTCCGCTCCGCCGGGTGCTCTCTAGA GCCCGTTTTTCGAGTGCGAGTCTCCAGGGCTGCCGAATACAGCAGCGATGGAGAACGGC ACCGGGCCCTACGGAGAAGAAGCTCCACGTGAAGTCCAGGAGACGACAGTCACCGAGGGG GCTGCCAAAATCGCCTTTCCAGTGCCAACGAGGTCTTTTATAACCCGGTGCAGGAATTC AATCGGGACCTGACATGTGCTGTGATCACCGAGTTTGCTCGCATTAGCTTGGGGCCAAA GGAATCCAGATCAAGGTTCCAGGAGAGAAGGACACGAAAAAGTGGTCGTGGACTGTCA GAGCAAGAGGAGAAAAAGTTTGAAGTAAAAAGAGTAAAAACCTGGCCTCAGGAGACCAA CCTCCAAGCGCCGTGGGGGAAATCTGTGAAGAAAGCCTGCATGTGCCTGGAAGGCTGG CACTTTCAGCCCACGTTCCATTCGATTTGCCCTAAAGTGCTGGCCTCACAC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC018302
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">BC018302.1</a> , <a href="#">AAH18302.1</a>
<b>RefSeq Size:</b>	2181 bp
<b>Locus ID:</b>	55621
<b>Cytogenetics:</b>	19p13.13
<b>Protein Families:</b>	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]