

Product datasheet for **SC304838**

TRMT5 (NM_020810) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRMT5 (NM_020810) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRMT5
Synonyms:	COXPD26; KIAA1393; TRM5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC304838 representing NM_020810.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTGCTTTGGATCTTATGGAGGCCATTTGGATTCTCAGGAAGATTTCTGAACTGGAAGCCATAGC
ATAACTGAATCAAAATCGTTGATTCCAGTAGCTTGGACATCCCTGACACAGATGCTTTTGAAGCACCT
GGTATTTTCTTATTGGGTCAAAGAAAAAGATTCTCAACCATGCCAGAAACAGAAACACATGAGAGAGAG
ACTGAATTGTTTTACCACCTTCTGATGTCCGAGGCATGACAAAACCTTGATAGAACAGCTTTTAAAAAG
ACAGTCAACATTCAGTGCTTAAAGTGAGGAAAGAAATAGTCAGTAAATTGATGCGATCCCTAAAAAGG
GCAGCATTGCAGCGCCAGGCATAAGACGTGTGATTGAAGATCCGGAAGATAAAGAAAGTAGACTAATC
ATGTTGGATCCCTATAAAATATTTACTCATGATTCCTTTGAGAAAGCAGAACTCAGTGTTTAGAGCAG
CTTAATGTCAGTCCACAGATCTCTAAATACAATTTGGAACAAACATGAACACTTTAAGTCAGAAGAA
ATCTTGAGAGCTGTGCTTCTGAAGGTCAAGATGTAACCTCAGGGTTTAGCAGGATTGGACATATTGCA
CACCTAAACCTTCGAGATCATCAGCTGCCTTTCAAACATTTAATTGGCCAGGTTATGATTGACAAAAAT
CCAGGAATCACCTCAGCAGTAAATAAAATAAATAATTGACAATATGTACCGAAATTTCCAAATGGAA
GTGCTATCTGGAGAGCAGAACATGATGACAAAGGTTTCGAGAAAACAACTACACCTATGAATTTGATTTT
TCAAAAGTCTATTGGAATCCTCGTCTGTCTACAGAACACAGCCGTATCACAGAACTTCTCAAACCTGGG
GATGTCCTATTTGATGTTTTGCTGGGGTTGGGCCCTTTGCCATTCCAGTAGCAAGAAAAACTGCACT
GTATTTGCCAATGATCTCAATCTGAATCTCATAAATGGCTGTTGTACAACGTAAATTAATAAAGTG
GACCAAAAGGTGAAAGTCTTCAACTGGATGGGAAAGACTTCTCCAAGGACCAGTCAAAGAAGAGTTA
ATGCAGCTGCTGGGTCTGTCAAAGAAAGAAAACCTCTGTGCAGTTGTATGAACCTGCCAGCAAAA
GCTATAGAGTTTCTTAGTGCTTTCAAGTGGCTTTTAGATGGGCAGCCATGCAGCAGTGAGTTCCTTCCC
ATAGTGCAATTGTTATAGCTTTTCAAAGATGCTAACCTGCTGAGGATGTTTCGGCAAAGGGCTGGAGCT
GTGTTAGGCATTTCTCTGGAGGCATGCAGTTCAGTTCACCTGGTAAGAAATGTGGCCCCAAACAAGGAA
ATGCTGTGCATCAGTTTCAGATTCTGCCTCTGTCTCTACAAGAACCAGACCAGAAATCCAGAGAAT
CATGAAGATCCACCTCTTAAAGGCAGAGGACGGCTGAAGCCTTTTCAGACGAAAAAACACAAATGTTT
TCAAACACTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_020810

Insert Size: 1530 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).

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:	<u>NM_020810.3</u>
RefSeq Size:	5304 bp
RefSeq ORF:	1530 bp
Locus ID:	57570
UniProt ID:	<u>Q32P41</u>
Cytogenetics:	14q23.1
MW:	58.3 kDa
Gene Summary:	tRNAs contain as many as 13 or 14 nucleotides that are modified posttranscriptionally by enzymes that are highly specific for particular nucleotides in the tRNA structure. TRMT5 methylates the N1 position of guanosine-37 (G37) in selected tRNAs using S-adenosyl methionine (Brule et al., 2004 [PubMed 15248782]).[supplied by OMIM, Mar 2008] Transcript Variant: This variant (3) uses an alternate 5' terminal exon, resulting in a different 5' UTR and the use of an alternate start codon, compared to variant 1. The encoded isoform (3) has a distinct N-terminus, and is shorter, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.