

## Product datasheet for **RC230190**

### TRMT2B (NM\_001167970) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRMT2B (NM_001167970) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRMT2B
Synonyms:	CXorf34; dj341D10.3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC230190 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGGCCTTAAGAGAAGAGTCCCACTGCACAGCCTCAGATACTTCATCTCCATGGTGGGTCTCTTCT  
 CCAAACAGGACTGCTTCCCTGGTATGCCAGAAATCCACCAGGATGGTCACAGCTTTTCTGGGCACAGT  
 ATGTAAGGGAGATTTACCCCGTGTGATAGCCACGAAATGTCAGAAAGGACAAAAAGTCAGAAGAAACCA  
 AGCCATCTTGACCCTAGATGGTTCCTGGCAGGAAAGGCTGGCTGATGTTGTGACACCCTCTGGAGGT  
 TGAGCTATGAAGAACAGCTCAAGGTGAAATTTGCAGCTCAGAAGAAAAATTTACAAAGACTAGAGTCTTA  
 CATCCAAATGCTCAATGGAGTCAGTGTGACAACGGCTGTACCCAAATCTGAGAGGCTCTCTGTCTTCTC  
 CATCCTATTATACCCTCTCTGTCAATGGTTACCGAAATAAGTCCACCTTCTGTGAACCGAGGTC  
 CAGATGGCAATCCAAAGACTGTGGGTTCTACCTGGGAACTGGAGAGATGGGAACGTTGTCTGTGTGCA  
 GTCTAATCATCTGAAAAACATCCCTGAGAAACACAGTCAAGTGGCGCAGTACTATGAAGTATTCCTTCGA  
 CAGTCTCCATTGGAGCCCTGCCTTGTATTTTCATGAAGGTGGATACTGGCGTGAGCTCACAGTCCGCACCA  
 ATAGCCAAAGGACACAAATGGCTATCATCACTTCCATCCCAGAAATTAAGTCAGGAGGAGCTCCATGT  
 TCAGAAGGAGATTGTAAGGAATTTTTCATCAGAGGTCCTGGAGCAGCCTGTGGCTTGACCTCACTTTAC  
 TTCCAGGAAAGTACCATGACCCGTTGCAGCCATCAGCAGTCTCCCTATCAGCTTCTGTTTGGGAAACCT  
 ACATCTTTGAAGAACTTCTGAGCTTGAAGATCCGCATCTCTCCAGATGCCTTTTTCCAGATTAACACAGC  
 TGGTGCAGAGATGCTGTATCGGACTGTGGGGGAGCTGACTGGAGTGAAGTCTGACACCATCCTTCTTGAC  
 ATCTGCTGTGAACTGGTGTGATTGGCCTCTCTGGCTCAGCATAACATCTCGGGTCTTGGGATTGAAT  
 TGGTGGAGCAGGAGGAGGATGCAAGATGGACTGCAGCCTTCAATGGCATCACCAACTGAATTTCA  
 TACTGGTCAAGCAGAGAAGATTTGCCAGGGCTGCTAAAGTCAAAGGAAGATGGACAGTCAATTGTTGCT  
 GTGGTGAACCCAGCCGTCGCGGACTGCATTACAAGGTGATTCAAGCCATTGAAACTTCAGGGCCATCC  
 ACACGCTAGTTTTTGTTCCTGCAAGCTCCATGGTGAATCCACTAGGAATGTCATTGAGCTGTGCTGTCC  
 TCCAGACCCTGCTAAGAAGCTCTTAGGCGAGCCCTTTGCTCTGCAGCAAGCTGTACCTGTGGATTTGTTCC  
 CCTCACACCCACATTGTGAGCTGGTGTCTCTTACTCGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC230190 protein sequence  
 Red=Cloning site Green=Tags(s)

MAGLKRVRPLHSLRYFISMVGLFSKPLLPWYARNPPGWSQLFLGTVCKGDFTRVIATKCQKQKQSQKKP  
 SHLGPLDGSWQERLADVVTPLWRLSYEEQLKVKFAAQKKILQRLESYIQMLNGVSVTTAVPKSERLSCLL  
 HPIIPSPVINGYRNKSTFSVNRGPDGNPKTVGFYLGTVRDNVVCVQSNHLKNIPEKHSQVAQYVEVFLR  
 QSPLEPCLVFHEGGYWRELTVRTNSQGHTMAIITFHPQKLSQEELHVQKEIVKEFFIRGPGAACGLTSLY  
 FQESTMTRCSHQSPYQLLFGEPYIFEELLSLKIRISPDAFFQINTAGAEMLYRTVGELTGVNSDTILLD  
 ICCGTGVIGLSLAQHTSRVLGIELLEQAVEDARWTAAFNGITNSEFHTGQAEKILPGLLKSKEGQSIWA  
 VVNPARAGLHYKVIQAIRNFRAIHTLVFVSCKLHGESTRNVIELCCPPDPAKLLGEPFVLQAVPVDLF  
 PHTPHCELVLLFTR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6344\\_b01.zip](https://cdn.origene.com/chromatograms/mk6344_b01.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001167970

**ORF Size:** 1512 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:**
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\\_001167970.1](#), [NP\\_001161442.1](#)

**RefSeq Size:** 3181 bp

**RefSeq ORF:** 1515 bp

**Locus ID:** 79979

**UniProt ID:** [Q96GJ1](#)

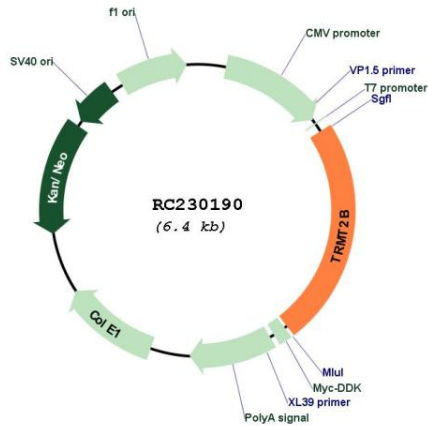
**Cytogenetics:** Xq22.1

**Protein Families:** Druggable Genome

**MW:** 56.5 kDa

**Gene Summary:** This gene encodes a homolog of the TRM2 gene in *S. cerevisiae*. The yeast gene encodes a tRNA methyltransferase that plays a role in tRNA maturation. The yeast protein also has endo-exonuclease activity and may be involved in DNA double strand break repair. Alternative splicing results in multiple transcripts encoding different isoforms. [provided by RefSeq, Nov 2009]

**Product images:**



Circular map for RC230190