

Product datasheet for **RC205123**

TRMT2B (NM_024917) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRMT2B (NM_024917) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC205123 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGGCCTTAAGAGAAGAGTCCCACTGCACAGCCTCAGATACTTCATCTCCATGGTGGGTCTCTTCT
 CCAAACAGGACTGCTTCCCTGGTATGCCAGAAATCCACCAGGATGGTCACAGCTTTTCTGGGCACAGT
 ATGTAAGGGAGATTTACCCCGTGTGATAGCCACGAAATGTCAGAAAGGACAAAAAGTCAGAAGAAACCA
 AGCCATCTTGACCAGTATAGTGGTCTGGCAGGAAAGGCTGGCTGATGTTGTGACACCACTCTGGAGGT
 TGAGCTATGAAGAACAGCTCAAGGTGAAATTTGCAGCTCAGAAGAAAAATTTACAAAGACTAGAGTCTTA
 CATCCAAATGCTCAATGGAGTCAAGGTGACAACGGCTGTACCCAAATCTGAGAGGCTCTCTGTCTTCTC
 CATCCTATTATACCCTCTCCTGCATCAATGGTTACCGAAATAAGTCCACCTTCTCTGTGAACCGAGGTC
 CAGATGGCAATCCAAAGACTGTGGGTTCTACCTGGGAACTGGAGAGATGGGAACGTTGTCTGTGTGCA
 GTCTAATCATCTGAAAAACATCCCTGAGAAACACAGTCAAGTGGCGCAGTACTATGAAGTATTCCTTCGA
 CAGTCTCCATTGGAGCCCTGCCTTGTATTTTCATGAAGGTGGATACTGGCGTGAGCTCACAGTCCGCACCA
 ATAGCCAAAGGACACAAATGGCTATCATCACTTCCATCCCAGAAATTAAGTCAGGAGGAGCTCCATGT
 TCAGAAGGAGATTGTAAGGAATTTTTCATCAGAGGTCCTGGAGCAGCCTGTGGCTTGACCTCACTTTAC
 TTCCAGGAAAGTACCATGACCCGTTGCAGCCATCAGCAGTCTCCCTATCAGCTTCTGTTTGGGAAACCT
 ACATCTTTGAAGAACTTCTGAGCTTGAAGATCCGCATCTCTCCAGATGCCTTTTTCCAGATTAACACAGC
 TGGTGCAGAGATGCTGTATCGGACTGTGGGGGAGCTGACTGGAGTGAACCTGACACCATCCTTCTTGAC
 ATCTGCTGTGAACTGGTGTGATTGGCCTCTCTGGCTCAGCATAACATCTCGGGTCTTGGGATTGAAT
 TGTTGGAGCAGGAGTGGAGGATGCAAGATGGACTGCAGCCTTCAATGGCATCACCAACTGAATTTCA
 TACTGGTCAAGCAGAGAAGATTTGCCAGGGCTGCTAAAGTCAAAGGAAGATGGACAGTCAATTGTTGCT
 GTGGTGAACCCAGCCCGTCCCGACTGCATTACAAGGTGATTCAAGCCATTGAAACTTCAGGGCCATCC
 ACACGCTAGTTTTTGTTCCTGCAAGCTCCATGGTGAATCCACTAGGAATGTCATTGAGCTGTGCTGTCC
 TCCAGACCCTGCTAAGAAGCTCTTAGGCGAGCCCTTTGCTCCTGCAGCAAGCTGTACCTGTGGATTTGTT
 CCTCACACCCACATTGTGAGCTGGTGTCTCTTTACTCGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205123 protein sequence
 Red=Cloning site Green=Tags(s)

MAGLKRVRPLHSLRYFISMVGLFSKPGLLPWYARNPPGWSQLFLGTVCKGDFTRVIATKCQKQKQSQKKP
 SHLGPLDGSWQERLADVVTPLWRLSYEEQLKVKFAAQKKILQRLESYIQMLNGVSVTTAVPKSERLSCLL
 HPIIPSPVINGYRNKSTFSVNRGPDGNPKTVGFYLGTVRDNVVCVQSNHLKNIPEKHSQVAQYVEVFLR
 QSPLEPCLVFHEGGYWRELTVRTNSQGHTMAIITFHPQKLSQEELHVQKEIVKEFFIRGPGAACGLTSLY
 FQESTMTRCSHQSPYQLLFGEPYIFEELLSLKIRISPDAFFQINTAGAEMLYRTVGELTGVNSDTILLD
 ICCGTGVIIGLSLAQHTSRVLGIELLEQAVEDARWTAAFNGITNSEFHTGQAEKILPGLLKSKEGQSIWA
 VVNPARAGLHYKVIQAIRNFRAIHTLVFVSCKLHGESTRNVIELCCPPDPAKLLGEPFVLQAVPVDLF
 PHTPHCELVLLFTR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6344_b01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_024917

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024917.6](#)

RefSeq Size: 3574 bp

RefSeq ORF: 1515 bp

Locus ID: 79979

UniProt ID: [Q96GJ1](#)

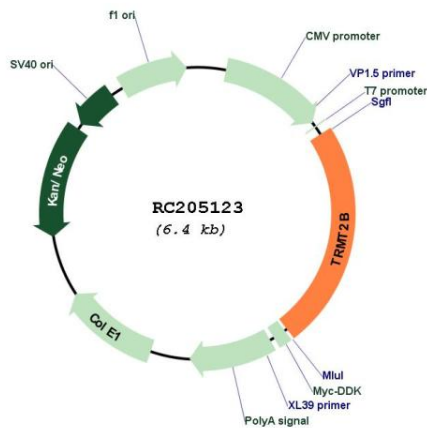
Cytogenetics: Xq22.1

Protein Families: Druggable Genome

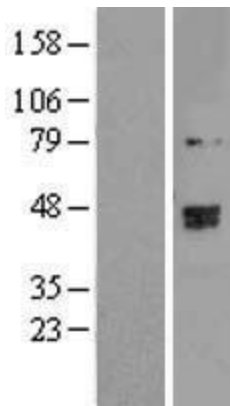
MW: 56.5 kDa

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 RC205123



Western blot validation of overexpression lysate (Cat# [LY411013]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205123 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).