

Product datasheet for **RC210671**

TRMT5 (NM_020810) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRMT5 (NM_020810) Human Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>RC210671 representing NM_020810
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGCTTTGGATCTTATGAGGCCATTTGGATTCTCAGGAAGATTTCTGAAACTGGAAAGCCATAGCA
 TAACTGAATCAAAATCGTTGATTCCAGTAGCTTGACATCCCTGACACAGATGCTTTTGGAAACACCTGG
 TATTTTCTTATTGGGTCAAAGAAAAAGATTCTCAACCATGCCAGAAACAGAAACACATGAGAGAGACT
 GAATTGTTTTACCACCTTCTGATGTCCGAGGCATGACAAAATTGATAGAACAGCTTTTAAAAAGACAG
 TCAACATTCCAGTGCTTAAAGTGAGGAAAGAAATAGTCAGTAAATTGATGCGATCCCTAAAAAGGCAGC
 ATTCAGCGCCAGGCATAAGACGTGTGATTGAAGATCCGGAAGATAAGAAAGTAGACTAATCATGTTG
 GATCCCTATAAAATTTACTCATGATTCCTTTGAGAAAGCAGAACTCAGTGTTTTAGAGCAGCTTAATG
 TCAGTCCACAGATCTCTAAATACAATTTGGAATAACATATGAACACTTTAAGTCAGAAGAAATCTTGAG
 AGCTGTGCTTCTGAAGTCAAGATGTAACCTCAGGGTTAGCAGGATTGGACATATTGCACACCTAAAC
 CTTGAGATCATCAGCTGCCTTTCAAACATTTAATTGGCCAGGTTATGATTGACAAAAATCCAGGAATCA
 CCTCAGCAGTAAATAAAATAAATAATATTGACAATATGTACCGAAATTTCAAATGGAAAGTGCTATCTGG
 AGAGCAGAAATGATGACAAAGTTTCGAGAAAACAACACACCTATGAATTTGATTTTCAAAGTCTAT
 TGGAACTCCTCGTCTGTCTACAGAACACAGCCGATCACAGAACTTCTCAAACCTGGGGATGTCCTATTTG
 ATGTTTTGCTGGGGTTGGGCCCTTTGCCATTCCAGTAGCAAAGAAAACTGCACTGATTTTGCCAAATGA
 TCTCAATCCTGAATCTCATAAATGGCTGTTGTACAACGTAAATTAATAAAGTGACCAAAAGGTGAAA
 GTCTTCAAATGGATGGGAAAGACTTCTCCAAGGACCAAGTCAAAGAAGAGTTAATGCAGCTGCTGGGTC
 TGTCAAAAGAAAACCCCTCTGTGCAGTTGTCACTGAACTTCCAGCAAAAGCTATAGAGTTTCTTAG
 TGCTTTCAAGTGGCTTTTAGATGGGCAGCCATGCAGCAGTGAGTTCCCTCCCATAGTGCATTGTTATAGC
 TTTTCAAAGATGCTAACCCTGTGAGGATGTTGCGCAAAGGGCTGGAGCTGTGTTAGGCATTTCTCTGG
 AGGCATGCAGTTCAGTTCACCTGGTAAGAAATGTGGCCCAAACAAGGAAATGCTGTGCATCACGTTTCA
 GATTCCTGCCTCTGCTCTACAAGAACCAGACCAGAAATCCAGAGAATCATGAAGATCCACCTCTTAA
 AGGCAGAGGACGGCTGAAGCCTTTTCAGACGAAAAACACAAATTGTTTCAAACACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210671 representing NM_020810
 Red=Cloning site Green=Tags(s)

MVLWILWRPFGSGRFLKLESHSITESKSLIPVAWTSLTQMLLEAPGIFLLGQRKRFSTMPETETHERET
 ELFSPPSDVRGMTKLDRTAFKKTVNIPVLKVRKEIVSKLMRSLKRAALQRPGIRRVIEDPEDKESRLIML
 DPYKIFTHDSFEKAELSVLEQLNVSPQISKYNLELTYEHFKSEEILRAVLPEGQDVTSGFSRIGHIAHLN
 LRDHQLPFKHLIGQVMIDKNPGITSAVNKINNIDNMYRNFQMEVLSGEQNMMTKVRENNYTYEFDKSKVY
 WNPRLSTEHSRITELLKPGDVLFDVFAVGVPFAIPVAKKNCTVFANDLNPESHKWLLYNCKLNKVDQKVK
 VFNLDGKDFLQGPVKEELMQLLGLSKERKPSVHVVMNLPAKAIEFLSAFKWLLDGQPCSEFLPIVHCYS
 FSKDANPAEDVRQRAGAVLGISLEACSSVHLVRNVAPNKEMLCITFQIPASVLYKNQTRNPNHEDPPLK
 RQRTAEAFSDEKTQIVSNT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2854_g05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_020810

ORF Size: 1527 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_020810.3](#), [NP_065861.3](#)

RefSeq Size: 5272 bp

RefSeq ORF: 1530 bp

Locus ID: 57570

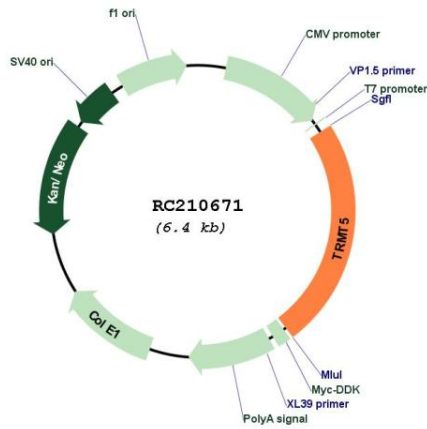
UniProt ID: [Q32P41](#)

Cytogenetics: 14q23.1

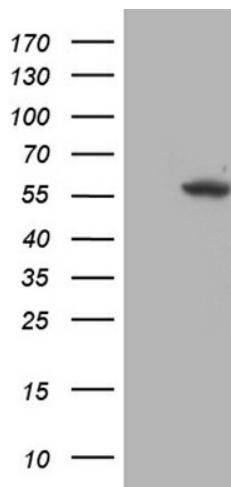
MW: 58.1 kDa

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]

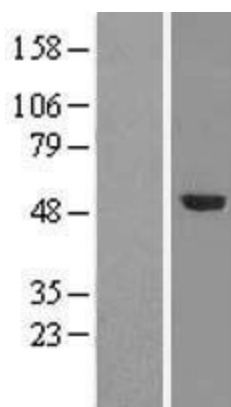
Product images:



Circular map for RC210671



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TRMT5 (Cat# RC210671, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TRMT5 (Cat# [TA809321])(1:2000). Positive lysates [LY412281] (100ug) and [LC412281] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY412281]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210671 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).