

Product datasheet for **RG210671**

TRMT5 (NM_020810) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRMT5 (NM_020810) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRMT5
Synonyms:	COXPD26; KIAA1393; TRM5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210671 representing NM_020810
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGCTTTGGATCTTATGGAGGCCATTTGGATTCTCAGGAAGATTTCTGAAACTGGAAAGCCATAGCA
 TAACTGAATCAAAATCGTTGATTCCAGTAGCTTGACATCCCTGACACAGATGCTTTTGGAAACACCTGG
 TATTTTCTTATTGGGTCAAAGAAAAAGATTCTCAACCATGCCAGAAACAGAAACACATGAGAGAGAGACT
 GAATTGTTTTACCACCTTCTGATGTCCGAGGCATGACAAAATTGATAGAACAGCTTTTAAAAAGACAG
 TCAACATTCCAGTGCTTAAAGTGAGGAAAGAAATAGTCAGTAAATTGATGCGATCCCTAAAAAGGCAGC
 ATTCAGCGCCCAGGCATAAGACGTGTGATTGAAGATCCGGAAGATAAGAAAGTAGACTAATCATGTTG
 GATCCCTATAAAATTTACTCATGATTCCTTTGAGAAAGCAGAACTCAGTGTTTTAGAGCAGCTTAATG
 TCAGTCCACAGATCTCTAAATACAATTTGGAATAACATATGAACACTTTAAGTCAGAAGAAATCTTGAG
 AGCTGTGCTTCTGAAGGTCAAGATGTAACCTCAGGGTTAGCAGGATTGGACATATTGCACACCTAAAC
 CTTGAGATCATCAGCTGCCTTTCAAACATTTAATTGGCCAGGTTATGATTGACAAAAATCCAGGAATCA
 CCTCAGCAGTAAATAAAATAAATAATATTGACAATATGTACCGAAATTTCAAATGGAAAGTGCTATCTGG
 AGAGCAGAAATGATGACAAAGGTTGAGAAAACAACTACACCTATGAATTTGATTTTTCAAAGTCTAT
 TGGAACTCCTCGTCTGTCTACAGAACACAGCCGATCACAGAACTTCTCAAACCTGGGGATGTCCTATTTG
 ATGTTTTGCTGGGGTTGGGCCCTTTGCCATTCCAGTAGCAAAGAAAACTGCACTGATTTTGCCAAATGA
 TCTCAATCCTGAATCTCATAAATGGCTGTTGTACAACGTAAATTAATAAAGTGGACAAAAGGTGAAA
 GTCTTCAACTGGATGGGAAAGACTTCTCCAAGGACCAAGTCAAAGAAGAGTTAATGCAGCTGCTGGGTC
 TGTCAAAAGAAAACCCCTCTGTGCAGTTGTCATGAACTTCCAGCAAAGCTATAGAGTTTCTTAG
 TGCTTTCAAGTGGCTTTTAGATGGGCAGCCATGCAGCAGTGAGTTCCTTCCCATAGTGCATTGTTATAGC
 TTTTCAAAGATGCTAACCTGTGAGGATGTTGCGCAAAGGGCTGGAGCTGTGTTAGGCATTTCTCTGG
 AGGCATGCAGTTCAGTTCACCTGGTAAGAAATGTGGCCCAAACAAGGAAATGCTGTGCATCACGTTTCA
 GATTCCTGCCTCTGCTCTACAAGAACCAGACCAGAAATCCAGAGAATCATGAAGATCCACCTCTTAA
 AGGCAGAGGACGGCTGAAGCCTTTTCAGACGAAAAACACAAATTGTTTCAAACACT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210671 representing NM_020810
 Red=Cloning site Green=Tags(s)

MVLWILWRPFGFSGRFLKLESHSITESKSLIPVAWTSLTQMLLEAPGIFLLGQRKRFSTMPETETHERET
 ELFSPPSDVRGMTKLDRTAFKKTVNIPVLKVRKEIVSKLMRSLKRAALQRPGIRRVIEDPEDKESRLIML
 DPYKIFTHDSFEKAELSVLEQLNVSPQISKYNLELTIEHFKSEEILRAVLPEGQDVTSGFSRIGHIAHLN
 LRDHQLPFKHLIGQVMIDKNPGITSVAVNKINNIDNMYRNFQMEVLSGEQNMMTKVRENNYTFDFSKVY
 WNPRLSTEHSRITELLKPGDVLFDVFAVGVPFAIPVAKKNCTVFANDLNPECHKWLLYNCKLNKVDQKVK
 VFNLDGKDFLQGPVKEELMQLLGLSKERKPSVHVMMNLPKAKIEFLSAFKWLLDGQPCSEFLPIVHCYS
 FSKDANPAEDVRQRAGAVLGISLEACSSVHLVRNVAPNKEMLCITFQIPASVLYKNQTRNPNHEDPPLK
 RQRTAEAFSDEKTQIVSNT

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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

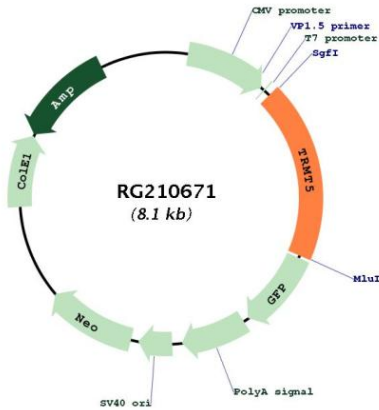
UniProt ID: [Q32P41](#)

Cytogenetics: 14q23.1

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 RG210671