

Product datasheet for **RC225499**

RG9MTD2 (TRMT10A) (NM_001134665) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RG9MTD2 (TRMT10A) (NM_001134665) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RG9MTD2
Synonyms:	HEL-S-88; MSSGM; MSSGM1; RG9MTD2; TRM10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225499 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCATCTGAAATGTTGCCAGCATTTATTGAACTTCTAATGTTGACAAAAAGCAAGGCATAAATGAAG
ATCAAGAGGAGAGCCAGAAGCCAAGATTAGGTGAAGGGTGTGAACCAATATCTAAACGACAAATGAAAA
ACTAATAAAACAGAAACAATGGGAAGAGCAACGGGAACCCGCAAACAAAAGCGAAAAGAAAAACGCAAG
AGGAAAAATTAGAGCGACAATGTCAAATGGAACCAAACCTCAGATGGACATGACAGAAAACGTGTTTCGAA
GAGATGTTGTTTCATAGCACCCCTTCGCCTTATTATTGACTGTAGTTTTGATCACTTGATGGTATTAAGGA
CATTAAAGAACTTCATAAGCAGATTCAACGATGTTACGCAGAAAACCGACGGGCACTGCATCCTGTGCAG
TTTTACTTGACAAGCCACGGAGGCCAGCTGAAAAAGAACATGGATGAAAATGACAAGGATGGGTCAACT
GGAAGGATATCCATATCAAACAGAGCACTATAGTGAACCTATAAAGAAAGAACCTGATTTACCTTAC
GTCAGATTCACCTAATACTGAAGGAATTAGATGAATCAAAGGCCTATGTGATTGGAGGATTAGTAGAT
CACAACCATCACAAGGGACTCACATATAAAACAGCGTCAGATTATGGAATCAATCATGCACAGCTCCAC
TTGGAAATTTGTGAAGATGAATAGTCGAAAAGTTTTGGCAGTTAATCATGTGTTGAAATTTCTGGA
ATACCTGGAAACAAGAGACTGGCAAGAAGCATTTTTACTATCTTGCCCCAACGGAAAGGAGCTGTTCCC
ACAGACAAAGCCTGTGAAAGTGCTTCTCATGACAATCAGTCTGTGAGGATGGAGGAAAGGTGGATCGGACA
GTGATTCAGTGAGGAGGAATATAGCAGAAATGAACTAGATTACCACATGAAGAAAAGCAGGATAAGGA
AAATCACACTGAATCTACAGTGAACCTCTCTGCCACAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225499 protein sequence
Red=Cloning site Green=Tags(s)

MSSEMLPAFIETSNVDKKGINEDQEESQKPRLGEGCEPISKRQMKKLIKQKQWEEQRELKQKRKEKRR
 RKKLERQCQMEPNSDGHRKRVRRDVVHSTLRLIIDCSFDHLMVLKDIKKLHKQIQRCYAENRRALHPVQ
 FYLTSHGGQLKKNMDENDKGWVNWKDIHIKPEHYSELIKKEDLIYLTSDSPNILKELDESKAYVIGGLVD
 HNHHKGLTYKQASDYGINHAQLPLGNFVKMNSRKVLAVNHVFEIILEYLETRDWQEAFFITLPQRKGAVP
 TDKACESASHDNQSVRMEEGGSDSDSSEEEYSRNELDSPHEEKQDKENHTESTVNSLPH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6316_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001134665

ORF Size: 1017 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_001134665.3](#)

RefSeq Size: 3552 bp

RefSeq ORF: 1020 bp

Locus ID: 93587

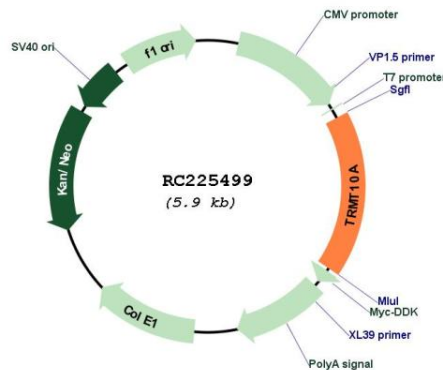
UniProt ID: [Q8TBZ6](#)

Cytogenetics: 4q23

MW: 39.7 kDa

Gene Summary: This gene encodes a protein that belongs to the tRNA (Guanine-1)-methyltransferase family. A similar gene in yeast modifies several different tRNA species. Mutations in this gene are associated with microcephaly, short stature, and impaired glucose metabolism. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

Product images:



Circular map for RC225499