

Product datasheet for **RG205580**

RG9MTD2 (TRMT10A) (NM_152292) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RG9MTD2 (TRMT10A) (NM_152292) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RG9MTD2
Synonyms:	HEL-S-88; MSSGM; MSSGM1; RG9MTD2; TRM10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205580 representing NM_152292 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCATCTGAAATGTTGCCAGCATTTATTGAACTTCTAATGTTGACAAAAAGCAAGGCATAAATGAAG
 ATCAAGAGGAGAGCCAGAAGCCAAGATTAGGTGAAGGGTGTGAACCAATATCTAAACGACAAATGAAAA
 ACTAATAAAACAGAAACAATGGGAAGAGCAACGGGAATCCGCAAAACAAAGCGAAAAGAAAAACGCAAG
 AGGAAAAAATTAGAGCGACAATGTCAAATGGAACCAAACTCAGATGGACATGACAGAAAACGTGTTTCGAA
 GAGATGTTGTTTCATAGCACCTTCGCCTTATTATTGACTGTAGTTTGTACATTGATGGTATTAAAGGA
 CATTAAAGAACTTCATAAGCAGATTCAACGATGTTACGCAGAAAACCGACGGGCACTGCATCCTGTGCAG
 TTTTACTTGACAAGCCACGGAGGCCAGCTGAAAAAGAATGGATGAAAAAGCAAGGATGGGTCAACT
 GGAAGGATATCCATATCAAACCAGAGCACTATAGTGAACCTATAAAGAAAGAAAGCCTGATTTACCTTAC
 GTCAGATTCACCTAATATACTGAAGGAATTAGATGAATCAAAGGCCTATGTGATTGGAGGATTAGTAGAT
 CACAACCATCACAAGGGACTCACATATAAACAAGCGTCAGATTATGGAATCAATCATGCACAGCTCCAC
 TTGGAAATTTTGTGAAGATGAATAGTCGAAAAGTTTGGCAGTTAATCATGTGTTTGAAATTATTCTGGA
 ATACCTGGAAACAAGAGACTGGCAAGAAGCATTTTTACTATCTTGCCCCAACGGAAGGAGCTGTTCCC
 ACAGACAAAGCCTGTGAAAGTGCTTCTCATGACAATCAGTCTGTCAGGATGGAGGAAGGTGGATCGGACA
 GTGATTCCAGTGAGGAGGAATATAGCAGAAATGAAGTACGATTACCCACATGAAGAAAAGCAGGATAAGGA
 AATCACACTGAATCTACAGTGAACCTCTGCCACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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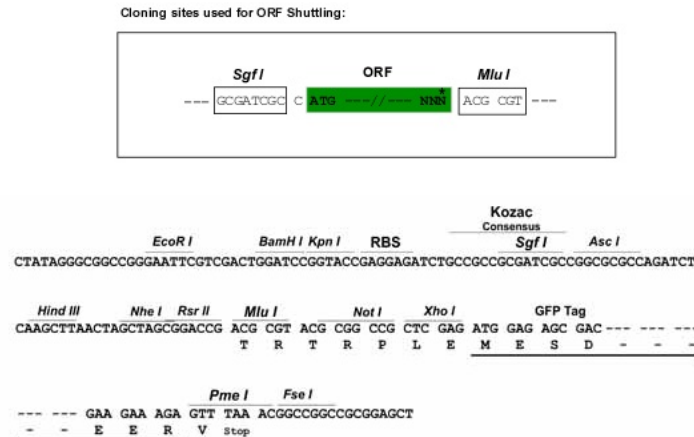
Protein Sequence: >RG205580 representing NM_152292
 Red=Cloning site Green=Tags(s)

MSSEMLPAFIETSNVDKKQGINEDQEESQKPRLGEGCEPISKRQMKLIKQKQWEEQRELKQKRKEKRR
 RKKLERQCQMEPNSDGHDRKRVRRDVVHSTLRLIIDCSFDHLMVLKDIKKLHKQIQRCYAENRRALHPVQ
 FYLTSHGGQLKKNMDENDKGWVNWKDIHKPEHYSELIKKEDLIYLTSDSPNILKELDESKAYVIGGLVD
 HNHHKGLTYKQASDYGINHAQLPLGNFVKMNSRKVLAVNHVFEIILEYLETRDWQEAFFITLPQRKGAVP
 TDKACESASHDNQSVRMEEGGSDSDSSEEEYSRNELDSPHEEKQDKENHTESTVNSLPH

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152292

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.

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

RefSeq: [NM_152292.5](#)

RefSeq Size: 3711 bp

RefSeq ORF: 1020 bp

Locus ID: 93587

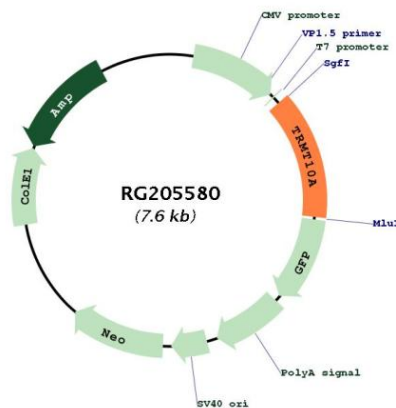
UniProt ID: [Q8TBZ6](#)

Cytogenetics: 4q23

Domains: DUF425

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 RG205580