

## Product datasheet for **SC324962**

### RG9MTD2 (TRMT10A) (NM\_001134665) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RG9MTD2 (TRMT10A) (NM_001134665) Human Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>SC324962 representing NM_001134665. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCATCTGAAATGTTGCCAGCATTTATTGAACTTCTAATGTTGACAAAAAGCAAGGCATAAATGAA
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AAGAGGAAAAAATTAGAGCGACAATGTCAAATGGAACCAAACTCAGATGGACATGACAGAAAACGTGTT
CGAAGAGATGTTGTTTCATAGCACCTTCGCCTTATTATTGACTGTAGTTTGGATCACTTGTGTTGTTA
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GTGCGATTTTACTTGACAAGCCACGGAGGCCAGCTGAAAAAGAACATGGATGAAAATGACAAAGGATGG
GTCAACTGGAAGGATATCCATATCAAACAGAGCACTATAGTGAACCTATAAAGAAAAGAAGACCTGATT
TACCTTACGTCAGATTCACCTAATATACTGAAGGAATTAGATGAATCAAAGGCCTATGTGATTGGAGGA
TTAGTAGATCACAAACATACAAGGGACTCACATATAACAAGCGTCAGATTATGGAATCAATCATGCA
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ATTATTCTGGAATACCTGGAACAAGAGACTGGCAAGAAGCATTTTTTACTATCTTGCCCAACGGAAA
GGAGCTGTTCCACAGACAAAGCCTGTGAAAGTGCTTCTCATGACAATCAGTCTGTCAGGATGGAGGAA
GGTGGATCGGACAGTGATTCCAGTGAGGAGGAATATAGCAGAAATGAACTAGATTACCACATGAAGAA
AAGCAGGATAAGGAAAATCACACTGAATCTACAGTGAACCTCTGCCACACTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001134665
Insert Size:	1020 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001134665.2</a>
<b>RefSeq Size:</b>	3577 bp
<b>RefSeq ORF:</b>	1020 bp
<b>Locus ID:</b>	93587
<b>UniProt ID:</b>	<a href="#">Q8TBZ6</a>
<b>Cytogenetics:</b>	4q23
<b>MW:</b>	39.7 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. All three variants encode the same protein.</p>