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Product datasheet for SC113792

TRMT1 (TRMU) (NM_018006) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRMT1 (TRMU) (NM_018006) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRMT1
Synonyms:	LCAL3; MTO2; MTU1; TRMT; TRMT1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC113792 sequence for NM_018006 edited (data generated by NextGen Sequencing)

ATGCAGGCCTTGCGGCACGTCGTGTGCGCCCTGTCCGGCGGCGTGGACAGCGCCGTGGCC
GCGCTGCTGCTGAGGCGGAGAGGTTACCAGGTGACAGGGGTGTTTATGAAGAACTGGGAC
TCACTGGATGAACATGGGGTCTGTACTGCCGACAAAGACTGTGAAGATGCTTACAGAGTT
TGCCAGATCTTAGACATCCCTTTCCATCAAGTGTCCTACGTAAAGGAGTATTGGAATGAT
GTGTTCAGTGACTTTTTGAATGAGTATGAAAAAGGAAGGACTCCCAATCCTGACATAGTT
TGCAACAAGCACATCAAATTTAGTTGCTTTTTTCATTATGCTGTGGATAATCTTGGGGCA
GATGCCATTGCCACAGGTCACTATGCAAGAACTTCCCTGGAAGATGAAGAAGTCTTTGAG
CAGAAGCACGTTAAGAAGCCCGAAGGGCTTTTCAGAAATCGGTTTGAAGTTAGAAATGCG
GTAAAACTCCTCCAGGCAGCTGACAGCTTTAAAGACCAGACCTTCTTTCTCAGCCAGGTT
TCCCAGGATGCCCTGAGGAGAACCATCTTCCCTCTGGGGGGATTAACGAAAGAGTTTGTA
AAGAAAATCGCTGCTGAGAATAGACTTCATCATGTGCTTCAGAAGAAAGAGAGCATGGGC
ATGTGTTTCATCGGGAAGAGGAATTTTGAACATTTCCTTCTTCAGTATCTGCAGCCTCGA
CCTGGTCACTTTATTTCCATAGAAGACAATAAGGTTCTGGGAACACATAAAGGTTGGTTC
CTGTATACCTTGGGCCAGAGAGCAAACATAGGTGGCCTGAGAGAGCCCTGGTACGTGGTG
GAGAAGGACAGCGTCAAGGGTGACGTGTTTGTGGCCCCCCGGACAGACCACCCAGCCCTG
TACAGGGACCTGCTGAGGACCAGCCGCGTGCACTGGATTGCGGAGGAGCCTCCCGCAGCA
CTGGTCCGGGACAAGATGATGGAGTGCCACTTCCGATTCCGCCACCAGATGGCACTAGTG
CCCTGTGTGCTGACCCTCAATCAAGATGGCACCGTGTGGGTGACAGCTGTGCAGGCTGTG
CGTGCCCTTGCCACAGGACAGTTTGCTGTGTTCTACAAGGGGGACGAGTGCCTGGGCAGC
GGGAAGATCCTGCGGCTGGGGCCGTCTGCCTACACGCTCCAGAAGGGCCAGCGCAGAGCT
GGGATGGCCACTGAGAGCCCCAGTGACAGCCCAGAAGATGGTCCAGGCCTGAGTCCCTTG
CTCTGA

Clone variation with respect to NM_018006.4

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018006 unedited
GATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGGAGGGTCTAG
TGAGGCGGGTCCCACCCGGCCTTTCCCATCAGAGCCCGAACTCGCGGTTCAGGTTCCCTC
TAGGACGCCCTTGGCCGAGAGGAGGCCTCCAATGGCTGGCTGGGGGGCTTAGAATTTTAT
TTTTGGTTTACAGCGCAGAAGAAGAGCAGTGAGGCCGGGGCGCGGGTGGGGAGGGCAAGG
CGGCGGCTCAAAAAAAAAGCCAGCCCCTCGCGGCCCGACAGAGTCTCGGCGCCCCGCGGG
TCGGTGGAGCCTCAGGGGTGAGCGCAGGCCGGAGACAGGGGAACCCGCCGCGGGACAGGG
GAAGGCCGGACGGAACGCGGGTAAGCTGCCGCAGCTTCCGGCCGGGCCACTAGCGCGGAC
CCTACGGCCGGGGCGGGACTTCCGGCAAGGCGCGGAAGCGGCGGTAGCTGCAGCTGGCGA
AGTTGGGCGACTGGCGGATGCAGGCCTTGCGGCACGTCGTGTGCGCCCTGTCCGGCGGCG
TGGACAGCGCCGTGGCCGCGCTGCTGCTGAGGCGGAGAGGTTACCAGGTGACAGGGGTGT
TTATGAAGAACTGGGACTCACTGGATGAACATGGNGGTCTGTACTGCCGACAAAGACTGT
GAAGATGCTTACAGAGTTTGCCAGATCTTAGACATCCCTTTCCATCAAGTGTCCTACGTA
AAGGAGTATTGGAATGATGTGTTCAGTGACTTTNTGAATGAGTATGAANAAGGGAGGACT
CCCAATCCTGACATAGTNNTGCACAAGCACATCANATTTAGTTGCTTNTTTCATTATGCT
GNGGATNAATCTGGGGCAGATGCCATTGCCACAGGTCACTATNGCAGAACTTNCCTGGNA
GTAGAAGAAGTCTTTGAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018006 unedited
GGACGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTGGTTTTTGGCCTTGAA
AAATGTTTATTCCACGCTGTCCCGACAGCCCCCTCTGCAGGTCCCCTCGGTGTACTCTGA
GGTGGGAAACCCTCCCTGGGGGCGGTGAAGGGGAACTCGGGCCACCCCACCAGCCAGCAG
ATGCTCCAGCAGCCAGAGCCCCAGCCTGGAGCTGAGGCTCTTCCTGGGGCTCGCCGGGCC
CCTGCAGGCTTTTCGGACCCTCAGCCAGCCCGGCTTCCTCTGCTTTGGGCAGCAGCAAGC
TGGCCCTTGGGCACCTGGACTGCTCACCAGCCGCCCAGCCATGGGTCCTGCTCTCCAGGT
TCCTTCTAGCAGATCCATCTCTGTCAGAGCAAGGGACTCAGGCCTGGACCATCTTCTGGG
CTGTCACTGGGGCTCTCAGTGGCCATCCCAGCTCTGCGCTGGCCCTTCTGGAGCGTGTAG
GCAGACGGCCCCAGCCGCAGGATCTTCCCGCTGCCCAGGCACTCGTCCCCCTTGTAGAAC
ACAGCAAACTGTCCTGTGGCAAGGGCACGCACAGCCTGCACAGCTGTCACCCACACGGTG
CCATCTTGATTGAGGGTCAGCACACAGGGCACTAGTGCCATCTGGTGGCGGAATCGGAAG
TGGCACTCCATCATCTTGTCCCGGACCAGTGCTGCGGGAGGCTCCTCCGCAATCCAGTGC
ACGCGGCTGGTTCTCAGCAGGTCCCTGTACAGGGCTGGGTGGTCTGTCCGGNGGGCCACA
AACACGTNACCCTTGACGCTGTCCTTCTCCACCACGTACCAGGGCTCTCCTCAGCCACCT
ATGTTTGCTCTCTGGCCCAGGTATACAGGAACCACCTTNAGTGTCCCACGACCTTATTGG
CTCTATGAANTAAGTGACACGCCAGGCTGCAAAACTGAANAAGAA

Restriction Sites: NotI-NotI

ACCN: NM_018006

Insert Size: 2130 bp

OTI Disclaimer: 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).

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_018006.3, NP_060476.2
RefSeq Size:	1970 bp
RefSeq ORF:	1266 bp
Locus ID:	55687
UniProt ID:	O75648
Cytogenetics:	22q13.31
Domains:	tRNA_Me_trans
Gene Summary:	This nuclear gene encodes a mitochondrial tRNA-modifying enzyme. The encoded protein catalyzes the 2-thiolation of uridine on the wobble positions of tRNA(Lys), tRNA(Glu), and tRNA(Gln), resulting in the formation of 5-taurinomethyl-2-thiouridine moieties. Mutations in this gene may cause transient infantile liver failure. Polymorphisms in this gene may also influence the severity of deafness caused by mitochondrial 12S ribosomal RNA mutations. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).