

Product datasheet for **SC321064**

TRNT1 (NM_016000) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	TRNT1
Synonyms:	CCA1; CCA1, MtCCA, CGI-47; CGI-47; mitochondrial CCA-adding tRNA-nucleotidyltransferase; MtCCA; tRNA nucleotidyl transferase, CCA-adding, l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF:	>OriGene sequence for NM_016000.2 GGGGGGCTGCGGCAACAGCGGGGCCGATGTGTAGTTGGTGACTGCCTCTCCAGATGCTGA GGTGCTGTATCATTGGCACAGGCCAGTGTGAACCGTAGGTGGAGTAGGCTGTGCCTTC TGAAGCAGTATCTATTCACAATGAAGTTGCAGTCTCCGAATTCAGTCACTTTTCACAG AAGGACTGAAGAGTCTGACAGAATTATTTGTCAAAGAGAATCACGAATTAAGAATAGCAG GAGGAGCAGTGAGGGATTTATTAATGGAGTAAAGCCTCAGGATATAGATTTTGCCACCA CTGCTACCCCTACTCAAATGAAGGAGATGTTTCAGTCGGCTGGGATTCGGATGATAACA ACAGAGGAGAAAAAGCACGGAACAATTACTGCCAGGCTTCATGAAGAAAAATTTGAGATTA CTACACTACGATTGATGTCACCACTGATGGAAGACATGCTGAGGTAGAATTTACAACCTG ACTGGCAGAAAGATGCGGAACGCAGAGATCTCACTATAAATCTATGTTTTAGGTTTTG ATGGCACTTTATTTGACTACTTTAATGGTTATGAAGATTTAAAAATAAGAAAGTTAGAT TTGTTGGACATGCTAAACAGAGAATACAAGAGGATTATCTTAGAATTTTAAGATACTTCA GGTTTTATGGGAGAATTGTAGACAAACCTGGTGACCATGATCCTGAGACTTTGGAAGCAA TTGCAGAAAATGCAAAAGGCTTGGCTGGAATATCAGGAGAAAGGATTTGGGTGGAAGTGA AAAAAATCTTGTGTAACCATGTAATCATTGATTACCTTATCTATGATCTTGATG TGGCTCCTTATATAGGTTTACCTGCTAATGCAAGTTTGAAGAATTTGACAAAGTCAGTA AAAATGTTGATGGTTTTTACCAAAGCCAGTGACTCTTTTGGCCTCATTATTCAAAGTAC AAGATGATGTCACAAAATTGGATTTGAGGTTGAAGATCGCGAAAGAGGAGAAAAACCTTG GCTTATTTATAGTTAAAAATAGGAAAGATTTAATTAAGCAACAGATAGTTCAGACCCAT TGAAACCTATCAAGACTTCATTATAGATTCTAGGGAACCTGATGCAACTACTCGTGAT GTGAACCTACTGAAGTACCAAGGAGAGCACTGTCTCTAAAGGAAATGCAGCAGTGGTCCA TTCCTCCATTTCTGTAAAGTGCCATGACATCAGAAAAGTGGGCATTTCTTCAGGAAAAG AAATTTGGGCTCTATTACAACAGTTGCGAGAACAGTGGAAGAAAAAGTGGTTACCAATGG AAAAAGATGAACCTCTGAGTTACATAAAGAAGACCTAAACTGATGGCTACTAAAAAGCA GAGCATTTCTGCCAGTCATAACATCTTTGACTCTATGAGCAAATAGTAATTTTGGACCT TGATAAAACAATTTGTAGAGTGTAATATTTCTAAGAGGAAATGTCACAGGGGCTATGAT GCAAGAAAGCCTCAGAAATGACTGCATACAGGAAATATCTCATCATTTCCAAGATGTC TTCATGTCCCATCAATGACATGCTACCAGACATATCAGATTCACAGGATAATGGCACCA AGCTACCCCAAGTAGATGTTTCTGGTATTCTAGACTGCCGTTTATGCTTGTTCCTAAAGT ATACTTAAAGTTTCAAATACAGTTTCACTTAGAACTGCAACCTCCAAGTAATGTTAT GTTTACTTAGGTATTAATGTTATGTTTACTTAGGTATGTATCAGAGGCAATAATTTCCAA AGCAGATCTTAGAATATAACCAATTTGTTAGATAACAAAAAAAAAAAAAAAAAAAAA AAAAA
Restriction Sites:	Please inquire
ACCN:	NM_016000
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).
OTI Annotation:	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.
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:	<u>NM_016000.2, NP_057084.1</u>
RefSeq Size:	1865 bp
RefSeq ORF:	1218 bp
Locus ID:	51095
Cytogenetics:	3p26.2
Domains:	PolyA_pol
Gene Summary:	The protein encoded by this gene is a CCA-adding enzyme which belongs to the tRNA nucleotidyltransferase/poly(A) polymerase family. This essential enzyme functions by catalyzing the addition of the conserved nucleotide triplet CCA to the 3' terminus of tRNA molecules. Mutations in this gene result in sideroblastic anemia with B-cell immunodeficiency, periodic fevers, and developmental delay. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]