

## Product datasheet for SC115096

### TRAM1 (NM\_014294) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRAM1 (NM_014294) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRAM1
Synonyms:	PNAS8; TRAM; TRAMP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115096 sequence for NM_014294 edited (data generated by NextGen Sequencing)

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ATGGCGATTTCGCAAGAAAAGCACCAAGAGCCCCCAGTGTGAGCCACGAATTCGTCCTG
CAGAATCACGCGACATCGTCTCCTGTGTGGCGATGGTCTTCCTGCTGGGGCTCATGTTT
GAGATAACGCGAAAAGCTTCTATCATTTTTGTTACTCTTCAGTACAATGTCACCCCTCCA
GCAACAGAAGAACAAGCTACTGAATCAGTGTCCCTTTATTAATGATGATGATGATGATGAT
GCTACTGTTTTCTTACATGCTAGTGGCGATAATTATTCATGCCGTAATTCAAGAGTAT
ATGTTGGATAAAAATTAACAGGCGAATGCACTTCTCCAAAACAAAACACAGCAAGTTAAT
GAATCTGGTCAGCTTAGTGCCTTCTACCTTTTTGCCTGTGTTGGGGCACATTCATTCTC
ATCTCTGAAAACACTACATCTCAGACCCAATCTTATGGAGGGCTTATCCCATAACCTG
ATGACATTTCAAATGAAGTTTTTCTACATATCACAGCTGGCTTACTGGCTTCATGCTTTT
CCTGAACCTACTTCCAGAAAACCAAAAAGAAGATATTCTCGTCAGCTTGTCTACATT
GGTCTTTACCTCTCCACATTGCTGGAGCTTACCTTTTGAACCTGAATCATCTAGGACTT
GTTCTTCTGGTGCTACATTATTTTGTGAATTTCTTTCCACATTTCCCGCTGTTTTAT
TTAGCAATGAAAAGTATCAGAAAGGATTTTCTCTGTGGGCAGTCTTTTTGTTTTGGGA
AGACTTCTGACTTTAATCTTTTCAGTACTGACTGTTGGTTTTGGCCTTGAAGAGCAGAA
AATCAGAAGCTGGATTTTCAGTACTGAAACTTCAATGTGTTAGCTGTTAGAATCGCTGTT
CTGGCATCCATTTGCGTTACTCAGGCATTTATGATGTGGAAGTTCATTAATTTTCAGCTT
CGAAGGTGGAGGGAACATTCTGCTTTTTCAGGCACCAGCTGTGAAGAAGAAACCAACAGTA
ACTAAAGGCAGATCTTCTAAAAAAGGAACAGAAAATGGTGTGAATGGAACATTAACCTTCA
AATGTAGCAGACTCTCCCGGAATAAAAAAGAGAAATCTTCATAA

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Clone variation with respect to NM\_014294.5



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_014294 unedited  
 GTGCGCATTGTATACGACTCCTATAGGCGGCCGCGNATTCGGCACGAGGTTTTTTTTCC  
 CCCGGGCGGCCCGGGCGGCTGCGTACTGGCTGTGGGATGGGAAGTGAAGCCCCAGCGAGCG  
 GCTGCAGCGGGCCGTGAGGAGCAGCCAGCGGGAGGCGGGCGGCGAGTCGGTGAGCAGCTG  
 GGAAGAGCAGAACCAGGGCGGAGCACCTGCAGGCGGGCGGGCGGCCACCATGGCGAT  
 TCGCAAGAAAAGCACCAAGAGCCCCCAGTGTGAGCCACGAATTCGTCCTGCAGAATCA  
 CGCGGACATCGTCTCCTGTGTGGCGATGGTCTTCTGCTGGGGTCATGTTTGAGATAAC  
 GGCAAAAAGCTTCTATCATTTTTTGTTACTCTTCAGTACAATGTACCCTCCAGCAACAGA  
 AGAACAAAGCTACTGAATCAGTGTCCCTTTATTACTATGGCATCAAAGATTTGGCTACTGT  
 TTTCTTCTACATGCTAGTGGCGATAATTATTCATGCCGTAATTCAAGAGTATATGTTGGA  
 TAAAATTAACAGGCGAATGCACTTCTCCAAAACAAAACACAGCAAGTTTAAATGAATCTGG  
 TCAGCTTAGTGCCTTCTACCTTTTTGCCTGTGTTTGGGGCACATTCATTCTCATCTCNG  
 AAATACATCTCAGACCAACTATCTTATGAAGGGCTTATCCCCATAACCTGATGACATT  
 TAAATGAAGTTTTTCTACATATCACAGCTGGGTTACTGGCTTCATGCTTTTCTGAACTC  
 TACTTNCAAAAAACAAAAAGAAGATATTCCTCGTCAGCTTGGCTACATTGGTCTTTAC  
 CTCTTNCCATTGTTGGGCTACCTTTTTGACTTGAATCATTTAGGACTTGGTCTTTGG  
 GGCTCCATTATTTGTTGAATTTCT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_014294 unedited  
 GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGAAGTAAAAATTTTAT  
 TTTGATTGATTTCTCAATGTATAGTTCAGTATAATGCCAGTTTTTAAATGGCAAAAATTTG  
 GTTCCACTGAAACTCCATAATGCTACAGAGAGCTACTACTTTTTCCAGGAAGTAGGTTAA  
 CAGCTAGAAAAGAAAAGGACAATTTCTAGCAGCATGGCAACTTAAACTGCAGATCTAAT  
 AGGTCTGCAACTTTTACACTAAAAATGGCACAAACAGCTGGTGACACAAGTGAGAAATGG  
 GGAACAAGATGTGAACACTGAAAAGAACAATATATACTGTAATATGATGAATAAACC  
 AAATGTAGCTATAAGAATCTTAAAGGATGATTATAGAAAAGGGAACCAATATTTTCTCTC  
 AAATGCTTTTTAGAGCCTTTCTGTAGCGATACAAATATATATATATATTTATCCAAAA  
 ATATGTTTTATACAGATAAATGTTTCTCAATTAAGATGGGACCAAGCTATAGGTATAA  
 CATAAAGCACATTGTCTTTGTAAGACTATTTATCCACCTGAATTTTCAATTTCTTTAAA  
 GTTAGTGCAATTAATGTTTTCAAAATATAATTACCTGTCAGTCTTNTATAGATATAAAT  
 CAAGTAGGCATTATGTTTTAAAAGTGTTCAGGTTAAACTTTTTCTAGATGCTGTGCATA  
 TTAACCTTATTATGAGCCCCATTNAGAATCATTATTAATAAACATATCAAAAAGGCTAT  
 ATGTCAGATTTTCTGTTTCATAGTAAATATTTTCTGATTTCCAGTTTACAAGATTGAAA  
 ATGCACAAGAAAGAAATTTACTTCACAAGTACTTNTAAGAATATACTTTGATTAATATGTA  
 TGGTAGNAAAACCTCCCG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_014294

**Insert Size:**

2740 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_014294.3](#), [NP\\_055109.1](#)

**RefSeq Size:** 2808 bp

**RefSeq ORF:** 1125 bp

**Locus ID:** 23471

**UniProt ID:** [Q15629](#)

**Cytogenetics:** 8q13.3

**Domains:** LAG1, TLC

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** This gene encodes a multi-pass membrane protein that is part of the mammalian endoplasmic reticulum. The encoded protein influences glycosylation and facilitates the translocation of secretory proteins across the endoplasmic reticulum membrane by regulating which domains of the nascent polypeptide chain are visible to the cytosol during a translocational pause. [provided by RefSeq, Oct 2009]  
 Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.