

## Product datasheet for **RG206316**

### TRAM1 (NM\_014294) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | TRAM1 (NM_014294) Human Tagged ORF Clone                                    |
| Tag:                      | TurboGFP  |
| Symbol:                   | TRAM1   |
| Synonyms:                 | PNAS8; TRAM; TRAMP  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >RG206316 representing NM_014294<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGATTTCGCAAGAAAAGCACCAAGAGCCCCCAGTGCTGAGCCACGAATTCGTCTGCAGAATCAGC  
CGGACATCGTCTCCTGTGTGGCGATGGTCTTCTGCTGGGGCTCATGTTTGAGATAACGGCAAAGCTTC  
TATCATTTTTGTTACTCTTCAGTACAATGTCACCCTCCAGCAACAGAAGAACAAGCTACTGAATCAGTG  
TCCCTTTATTACTATGGCATCAAAGATTTGGCTACTGTTTTCTTCTACATGCTAGTGGCGATAATTATTC  
ATGCCGTAATTCAAGAGTATATGTTGGATAAAAATTAACAGGCGAATGCACTTCTCCAAAACAAAACACAG  
CAAGTTTAATGAATCTGGTCAGCTTAGTGCGTTCTACCTTTTTGCCTGTGTTGGGGCACATTCATTCTC  
ATCTCTGAAAACACTACATCTCAGACCCAATCTTATGGAGGGCTTATCCCCATAACCTGATGACATTTTC  
AAATGAAGTTTTCTACATATCACAGCTGGCTTACTGGCTTCATGCTTTTCCGAACTCTACTTCCAGAA  
AACCAAAAAGAAGATATTCCTCGTCAGCTTGTCTACATTGGTCTTTACCTCTCCACATTGCTGGAGCT  
TACCTTTTGAACCTGAATCATCTAGGACTTGTCTTCTGGTGCTACATTATTTGTTGAATTTCTTTTCC  
ACATTTCCCGCTGTTTTATTTTAGCAATGAAAAGTATCAGAAAGGATTTTCTCTGTGGCGAGTTCTTTT  
TGTTTTGGGAAGACTTCTGACTTTAATCTTTTCAGTACTGACTGTTGGTTTTGGCCTTGCAAGAGCAGAA  
AATCAGAAGCTGGATTTTCAGTACTGGAACTTCAATGTGTTAGCTGTTAGAATCGCTGTTCTGGCATCCA  
TTTTCGTTACTCAGGCATTTATGATGTGGAAGTTCATTAATTTTCAGCTTCAAGGTGGAGGGAACATTC  
TGCTTTTCAGGCACCAGCTGTGAAGAAGAAACCAACAGTAACTAAAGGCAGATCTTCTAAAAAAGGAACA  
GAAAATGGTGTGAATGGAACATTAACCTCAATGTAGCAGACTCTCCCCGAATAAAAAAGAGAAATCTT  
CA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206316 representing NM\_014294  
 Red=Cloning site Green=Tags(s)

MAIRKKSTKSPVLSHEFVLQNHADIVSCVAMVFLGLMFEITAKASIIFVTLQYNVTLPATEEQATESV  
 SLYYYGIKDLATVFFYMLVAIIHAVIQEYMLDKINRRMHFSKTKHSEKFNESGQLSAFYLFACVWGTFIL  
 ISENYISDPTILWRAYPHNLMTFQMKFFYISQLAYWLHAFPELYFQKTKKEDIPRQLVYIGLYLFHIIAGA  
 YLLNLNHLGLVLLVLYHFVEFLFHSRFLFYFSNEKYQKGFSLWAVLFLVLRLLTLILSVLTVGFGLARAE  
 NQKLDFTGNFNLAVRIAFLASICVLTQAFMMWKFINFQLRRWREHSAPAVKPKPTVTKGRSSKKG  
 ENGVNGTLTNSNVADSPRNKKEKSS

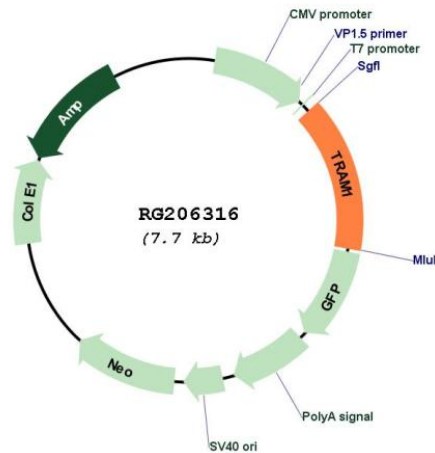
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_014294

|                               |  |
|-------------------------------|--|
| <b>ORF Size:</b>              | 1122 bp  |
| <b>OTI Disclaimer:</b>        | <p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p> |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <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_014294.6</a>  |
| <b>RefSeq Size:</b>           | 2808 bp  |
| <b>RefSeq ORF:</b>            | 1125 bp  |
| <b>Locus ID:</b>              | 23471  |
| <b>UniProt ID:</b>            | <a href="#">Q15629</a>   |
| <b>Cytogenetics:</b>          | 8q13.3   |
| <b>Domains:</b>               | LAG1, TLC  |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane  |
| <b>Gene Summary:</b>          | 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]   |