

Product datasheet for **RG202609**

TRPT1 (NM_031472) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TRPT1 (NM_031472) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TRPT1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202609 representing NM_031472
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGAGCTGATGGCTTCGTGCCCTGGGCACCCTCCTGCAGTTGCCCCAGTTCGCGGCTTCTCTGCTG
 AAGATGTGCAGCGGTGGTGGACACCAATAGGAAGCAGCGGTCGCCCTGCAGCTGGGCGATCCCAGCAC
 TGGCCTTCTCATCCGGGCCAACCAGGGCCATTCCTGCAGGTACCTAAGTTGGAGCTGATGCCCTGGAG
 ACACCCGAGGCCCTGCCCCGATGCTAGTCCATGGTACATTCTGGAAGCACTGGCCATCCATCCTACTCA
 AAGGCCGTCTGCCAGGGAAGGACGCACATTCACCTGGCCCGAGGACCTGCCTGGAGACCCCGGTATCAT
 CAGTGGCATGCGGTCCCATTGTGAAATAGCTGTGTTTCATCGATGGACCCCTGGCTCTGGCAGATGGAATA
 CCCTTCTCCGCTCTGCCAATGGGTGATTCTGACTCCAGGGAATACTGATGGCTTCTCCTTCCCAAGT
 ACTTCAAGGAGGCCCTGCAGCTACGCCCTACCCGAAAGCCCTTCTTGGCTGGTATGAAGAGACAGA
 GTGTCAGAGTAGCCCAAGCACAGCTCCAGAGAAAGGAGGAGGATCCAACAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202609 representing NM_031472
 Red=Cloning site Green=Tags(s)

MGADGFVPLGTLQLPQFRGFS AEDVQRVVDNRKQRFALQLGDPSTGLLIRANQGHS LQVPKLELMPLE
 TPQALPPLMHVHTFWKHWP SILLKGLSCQGRTHIHLAPLPGDPGIISGMRSHCEIAVFIDGPLALADGI
 PFFRSANGVILTPGNTDGFLLPKYFKEALQLRPRTRKPLSLAGDEETECQSSPKHSSRERRRIQQ

TRTRPLE - GFP Tag - V

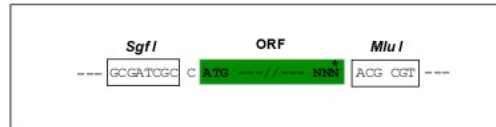
Restriction Sites: SgfI-MluI



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Cloning Scheme:

Cloning sites used for ORF Shutting:



```
                Kozac  
                Consensus  
                SgfI  AscI  
EcoRI       BamHI KpnI  RBS  
CTATAGGGCGCGCGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT  
  
HindIII     NheI  RsrII  MluI       NotI     XhoI       GFP Tag  
CAAGCTTAAGTAGCTAGCGGACCG  ACG CGT  ACG CGG  CCG CTC  GAG  ATG  GAG  AGC  GAC  - - - - -  
                             T  R  T  R  P  L  E  M  E  S  D  -  -  -  -  -  
  
PmeI       FseI  
- - - GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT  
- - - E  E  R  V  Stop
```

ACCN: NM_031472

ORF Size: 612 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_031472.2](#), [NP_113660.1](#)

RefSeq Size: 883 bp

RefSeq ORF: 615 bp

Locus ID: 83707

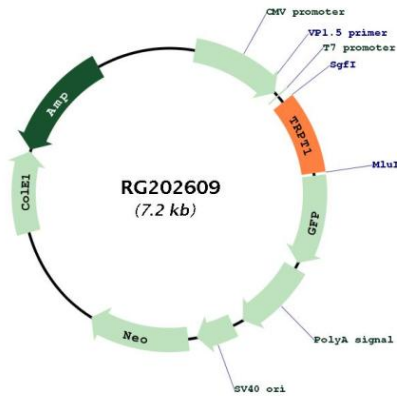
UniProt ID: [Q86TN4](#)

Cytogenetics: 11q13.1

Domains: PTS_2-RNA

Gene Summary: Catalyzes the last step of tRNA splicing, the transfer of the splice junction 2'-phosphate from ligated tRNA to NAD to produce ADP-ribose 1''-2'' cyclic phosphate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG202609