

## Product datasheet for **RC202609**

### TRPT1 (NM\_031472) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TRPT1 (NM\_031472) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** TRPT1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC202609 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGAGCTGATGGCTTCGTGCCCTGGGCACCCTCCTGCAGTTGCCCCAGTTCGCGGCTTCTCTGCTG  
AAGATGTGCAGCGGTGGTGGACACCAATAGGAAGCAGCGGTCGCCCTGCAGCTGGGCGATCCCAGCAC  
TGGCCTTCTCATCCGGGCCAACCAGGGCCATTCCCTGCAGGTACCTAAGTTGGAGCTGATGCCCTGGAG  
ACACCCGAGGCCCTGCCCCGATGCTAGTCCATGGTACATTCTGGAAGCACTGGCCATCCCTACTCA  
AAGGCCTGTCTGCCAGGAAGGAGCACATTACCTGGCCCCAGGACTGCCTGGAGACCCCGGTATCAT  
CAGTGGCATGCGGTCCCATTGTGAAATAGCTGTGTTTCATCGATGGACCCCTGGCTCTGGCAGATGGAATA  
CCCTTCTCCGCTCTGCCAATGGGTGATTCTGACTCCAGGGAATACTGATGGCTTCTCTCCCTCCCAAGT  
ACTTCAAGGAGGCCCTGCAGCTACGCCCTACCCGAAAGCCCTTCTCTGGCTGGTATGAAGAGACAGA  
GTGTCAGAGTAGCCCAAGCACAGCTCCAGAGAAAGGAGGAGGATCCAACAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC202609 protein sequence  
Red=Cloning site Green=Tags(s)

MGADGFVPLGTLQLPQFRGFS AEDVQRVVDNRKQRFALQLGDPSTGLLIRANQGHSLQVPKLELMPLE  
TPQALPPMLVHGTFWKHWP SILLKGLSCQGRTHIHLAPLPGDPGIISGMRSHCEIAVFIDGPLALADGI  
PFFRSANGVILTPGNTDGFLLPKYFKEALQLRPTRKPLSLAGDEETECQSSPKHSSRERRRIQQ

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6391\\_h08.zip](https://cdn.origene.com/chromatograms/mk6391_h08.zip)



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Restriction Sites: SgfI-MluI

Cloning Scheme:



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](#)

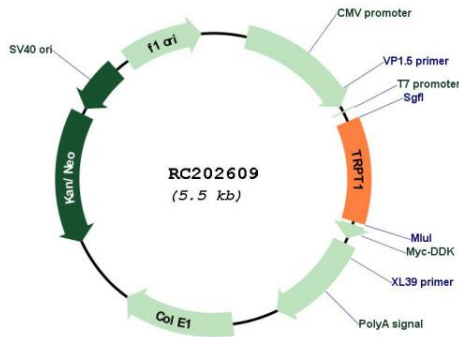
RefSeq Size: 987 bp

RefSeq ORF: 615 bp

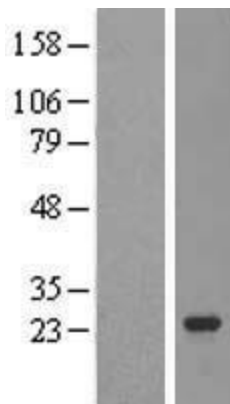
Locus ID: 83707

UniProt ID: [Q86TN4](#)

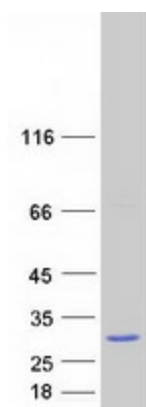
**Cytogenetics:** 11q13.1  
**Domains:** PTS\_2-RNA  
**MW:** 22.4 kDa  
**Gene Summary:** Catalyzes the last step of tRNA splicing, the transfer of the splice junction 2'-phosphate from ligated tRNA to NAD to produce ADP-ribose 1''-2'' cyclic phosphate.[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for RC202609



Western blot validation of overexpression lysate (Cat# [LY410478]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202609 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TRPT1 protein (Cat# [TP302609]). The protein was produced from HEK293T cells transfected with TRPT1 cDNA clone (Cat# RC202609) using MegaTran 2.0 (Cat# [TT210002]).