

Product datasheet for **RG214091**

TRNT1 (NM_182916) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRNT1 (NM_182916) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRNT1
Synonyms:	CCA1; CGI-47; MtCCA; RPEM; SIFD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214091 representing NM_182916 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAAGTTGCAGTCTCCGAATTCCAGTCACTTTTCACAGAAGGACTGAAGAGTCTGACAGAATTATTTG
TCAAAGAGAATCACGAATTAAGAATAGCAGGAGGAGCAGTGAGGGATTTATTAATGGAGTAAAGCCTCA
GGATATAGATTTTCCACCCTGCTACCCCTACTCAAATGAAGGAGATGTTTCAGTCGGCTGGGATTCGG
ATGATAAACAACAGAGGAGAGAAAAGCACGGAACAATTACTGCCAGGCTTCATGAAGAAAATTTTGAGATTA
CTACACTACGGATTGATGTCACCCTGATGGAAGACATGCTGAGGTAGAATTTACAAGTACTGCTGGCAGAA
AGATGCGGAACGAGAGATCTCACTATAAATTCTATGTTTTAGGTTTTGATGGCACTTTATTTGACTAC
TTTAATGGTTATGAAGATTTAAAAATAAGAAAGTTAGATTTGTTGGACATGCTAAACAGAGAATACAAG
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TCCTGAGACTTTGGAAGCAATTGCAGAAAATGCAAAAGGCTTGGCTGGAATATCAGGAGAAAGGATTTGG
GTGGAAGTGAAGAAATCTTGTGGTAACCATGTAAATCATTTGATTACCTTATCTATGATCTTGATG
TGGCTCCTTATATAGGTTTACCTGCTAATGCAAGTTTAGAAGAATTTGACAAAGTCAGTAAAAATGTTGA
TGGTTTTTCACCAAAGCCAGTGACTCTTTGGCCTCATTATTCAAAGTACAAGATGATGTCACAAAATTG
GATTTGAGGTTGAAGATCGCGAAAGAGGAGAAAAACCTTGGCTTATTTATAGTTAAAAATAGGAAAGATT
TAATTAAGCAACAGATAGTTTCAGACCCATTGAAACCCTATCAAGACTTCATTATAGATTCTAGGGAACC
TGATGCAACTACTCGTGTATGTGAAGTACTGAAGTACCAAGGAGAGCACTGTCTCCTAAAGGAAATGCAG
CAGTGGTCCATTCTCCATTTCTGTAAAGTGGCCATGACATCAGAAAAGTGGGCATTTCTTCAGGAAAAAG
AAATTGGGGCTCTATTACAACAGTTGCGAGAACAGTGGAAGAAAGTGGTTACCAATGGAAAAAGATGA
ACTTCTGAGTTACATAAAGAAGACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG214091 representing NM_182916
 Red=Cloning site Green=Tags(s)

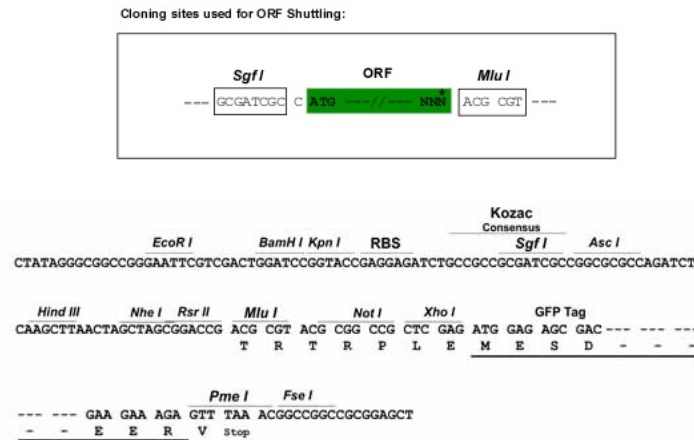
MKLQSPEFQSLFTEGLKSLTELFVKENHELRIAGGAVRDLLNGVKPQDIDFATTATPTQMKEMFQSAGIR
 MINNRGEKHGTITARLHEENFEITTLRIDVTDDGRHAEVEFTTDWQKDAERRDLTINSMFLGFDGLFDY
 FNGYEDLNKKVRFVGHAKQRIQEDYLRLRYFRFYGRIVDKPGDHPETLEAIAENAKGLAGISGERIW
 VELKKILVGNHVNHLIHLIYDLVDVAPYIGLPANASLEEDKVSKNVDGFSKPVTLLASLFKVQDDVTKL
 DLRLKIAKEEKNLGLFIVKNRKDLIKATDSSDPLKPYQDFIIDSREPDATTRVCELLKYQGEHCLKKEMQ
 QWSIPFPVSGHDIRKVGISSGKEIGALLQQLREQWKKSGYQMEKDELLSYIKKT

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_182916

ORF Size: 1302 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_182916.2](#), [NP_886552.2](#)

RefSeq Size: 2291 bp

RefSeq ORF: 1305 bp

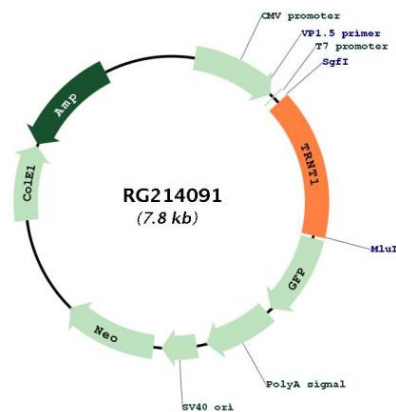
Locus ID: 51095

UniProt ID: [Q96Q11](#)

Cytogenetics: 3p26.2

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]

Product images:



Circular map for RG214091