

## Product datasheet for **RG204471**

### TPP1 (NM\_000391) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TPP1 (NM_000391) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TPP1
Synonyms:	CLN2; GIG1; LPIC; SCAR7; TPP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG204471 representing NM\_000391  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGACTCCAAGCTGCCTCCTAGGGCTCTTTGCCCTCATCCTCTCGCAAATGCAGTTACAGCCCGG  
 AGCCCGACCAGCGGAGGACGCTGCCCCAGGCTGGGTGTCCCTGGGCCGTGCGGACCCTGAGGAAGAGCT  
 GAGTCTCACCTTTGCCCTGAGACAGCAGAATGTGAAAGACTCTCGGAGCTGGTGCAGGCTGTGTGGAT  
 CCCAGCTCCTCAATACGAAAAATACCTGACCCTAGAGAATGTGGCTGATCTGGTGAGGCCATCCCCAC  
 TGACCCTCCACACGGTGCAAAAATGGCTCTTGGCAGCCGAGCCAGAAGTCCATTCTGTGATCACACA  
 GGACTTTCTGACTTGTGGCTGAGCATCCGACAAGCAGAGCTGCTGCTCCCTGGGGCTGAGTTTCATCAC  
 TATGTGGGAGGACCTACGAAACCCATGTTGAAGGTCCCACATCCCTACCAGCTTCCACAGGCCCTTGG  
 CCCCCATGTGGACTTTGTGGGGGACTGCACCGTTTTCCCCAACATCATCCCTGAGGCCAACGCTCTGA  
 GCCGCAGGTGACAGGGACTGTAGGCCTGCATCTGGGGTAAACCCCTCTGTGATCCGTAAGCGATAACA  
 TTGACCTCACAAGACGTGGGCTCTGGCACCAGCAATAACAGCCAAGCCTGTGCCAGTCCCTGGAGCAGT  
 ATTTCCATGACTCAGACCTGGCTCAGTTCATGCGCCTCTTCGGTGGCAACTTTCACATCAGGCATCAGT  
 AGCCCGTGTGGTGGACAACAGGGCCGGGGCCGGGCGGGATTGAGGCCAGTCTAGATGTGCAGTACCTG  
 ATGAGTGTGGTGGCAACATCTCCACCTGGGTCTACAGTAGCCCTGGCCGGCATGAGGGACAGGAGCCCT  
 TCCTGCAGTGGCTCATGCTGCTCAGTAATGAGTCAGCCCTGCCACATGTGCATACTGTGAGCTATGGAGA  
 TGATGAGGACTCCCTCAGCAGCGCTACATCCAGCGGTCAACTGAGCTCATGAAGGCTGCCGCTCGG  
 GGTCTCACCTGCTCTTCGCCTCAGGTGACAGTGGGGCCGGGTGTTGGTCTGTCTCTGGAAGACAGGAGT  
 TCCGCCCTACCTCCCTGCCTCCAGCCCTATGTCACCACAGTGGGAGGCACATCCTTCCAGGAACCTTT  
 CCTCATCACAATGAAATGTTGACTATATCAGTGGTGGTGGCTTCCAGCAATGTGTTCCACGGCCTTCA  
 TACCAGGAGGAAGCTGTAAACGAAGTTCCTGAGCTCTAGCCCCACCTGCCACCATCCAGTTACTTCAATG  
 CCAGTGGCCGTGCCTACCCAGATGTGGTGCACCTTCTGATGGCTACTGGTGGTGGTGGTGGTGGTGGTGGT  
 CATTCCATGGGTGTCGGAACTCGGCCTACTCCAGTGTGGGGGATCCTATCCTTGTGATCAATGAG  
 CACAGGATCCTTAGTGGCCGCCCTCTTGGCTTCTCAACCAAGGCTCTACCAGCAGCATGGGGCAG  
 GACTCTTGTGATAACCCGTGGTGCATGAGTCTGTCTGGATGAAGAGGTAGAGGGCCAGGGTTTCTG  
 CTCTGGTCTGGTGGGATCCTGTAACAGGCTGGGAACACCAACTCCAGCTTGTCTGAAGACTCTA  
 CTAACCCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG204471 representing NM\_000391  
 Red=Cloning site Green=Tags(s)

MGLQAQLLGLFALILSGKCSYSEPEPDRRTLPPGWVSLGRADPEEELSLTFALRQQNVERLSELVQAVSD  
 PSSPQYGYKYLLENVADLVRPSPLTLHTVQKWLAAAGAQQKCHSVITQDFLTCWLSIRQAELLLPGAEFHH  
 YVGGPTEHVVRSPHPYQLPQALAPHVDFVGGHLHRFPPTSSLRQRPEPQVTGTVGLHLGVTSPVIRKRYN  
 LTSQDVGSGTSNNSQACAQFLEQYFHSDLAQFMRLFNGFAHQASVARVVGQQGRGRAGIEASLDVQYL  
 MSAGANISTWVYSSPGRHEGQEPFLQWMLLSNESALPHVHTVSYGDDDSLSSAYIQRVNTLMKAAAR  
 GLTLLFASGDSGAGCWSVSGRHEFRPTFPASSPYVTTVGGTSFQEPFLITNEIVDYISGGGFSNVFPRPS  
 YQEEAVTKFLSSSPHLPSSYFNASGRAYPDVAALSDGYWVSNRVPVWVSGTSASTPVFGGILSLINE  
 HRILSGRPPLGFLNPRLYQHGAGLFDVTRGCHEESCLDEEVEGQGFCSGPGWDPVTGWGTPNFPALLKTL  
 LNP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_000391

**ORF Size:** 1689 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\\_000391.3](#), [NP\\_000382.3](#)

**RefSeq Size:** 3540 bp

**RefSeq ORF:** 1692 bp

**Locus ID:** 1200

**UniProt ID:** [O14773](#)

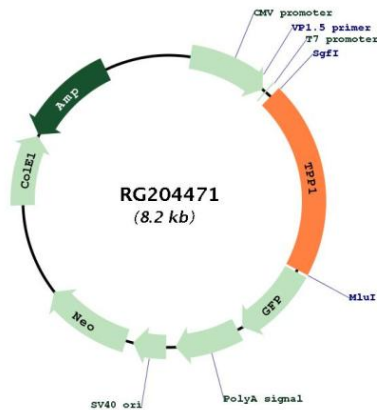
**Cytogenetics:** 11p15.4

**Protein Families:** Protease

**Protein Pathways:** Lysosome

**Gene Summary:** This gene encodes a member of the sedolisin family of serine proteases. The protease functions in the lysosome to cleave N-terminal tripeptides from substrates, and has weaker endopeptidase activity. It is synthesized as a catalytically-inactive enzyme which is activated and auto-proteolyzed upon acidification. Mutations in this gene result in late-infantile neuronal ceroid lipofuscinosis, which is associated with the failure to degrade specific neuropeptides and a subunit of ATP synthase in the lysosome. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG204471