

## Product datasheet for **RG227286**

### **PPT1 (NM\_001142604) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PPT1 (NM\_001142604) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PPT1  
**Synonyms:** CLN1; INCL; PPT  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG227286 representing NM\_001142604  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTCGCCCGGCTGCCTGTGGCTCTTGGCTGTGGCTCTCCTGCCATGGACCTGCGCTTCTCGGGCGC  
TGCAGCATCTGGACCCGCGCCGCGCTGCCGTTGGTGATCTGGCATGGGATGGGTGTTTTGGACTCCC  
TCGATGCCAGGAGAGACTCTCACATCTGTGACTTCCGAAAAACTGAATGCTGGGGCGTACTCC  
AAAGTTGTCAGGAACGCCTCGTGAAGCCGAATACTGGCATGACCCATAAAGGAGGATGTGTATCGCA  
ACCACAGCATCTTCTTGGCAGATATAAATCAGGAGCGGGTATCAATGAGTCCTACAAGAAAACTGAT  
GGCCTGAAGAAGTTTGTGATGGTAAAATTCCTCAATGATTCCATTGTGGACCCTGTAGATTCGGAGTGG  
TTTGGATTTTACAGAAGTGGCAAGCAAGGAAACCATTCCCTTACAGGAGACCTCCCTGTACACACAGG  
ACCGCCTGGGGCTAAAGGAAATGGACAATGCAGGACAGCTAGTGTCTGGCTACAGAAGGGGACCATCT  
TCAGTTGTCTGAAGAATGGTTTTATGCCACATCATACCATTCTTGA

**ACGCGTACGCGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG227286 representing NM\_001142604  
Red=Cloning site Green=Tags(s)

MASPGCLWLLAVALLPWTCASRALQHLDPAPLPLVIWHGMGVFGLPRCPGESSHICDFIRKTLNAGAYS  
KVVQERLVQAEYWHDPKEDVYRNHSIFLADINQERGINESYKKNLMALKKFVMVKFLNDSIVDPVDFSEW  
FGFYRSGQAKETIPLQETSLYTQDRLGLKEMDNAGQLVFLATEGDHLQLSEEFYAHIIIPFLG

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

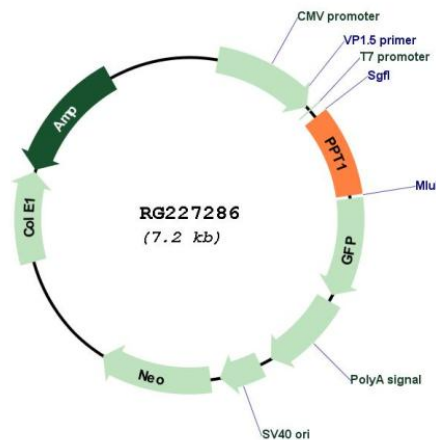


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001142604

ORF Size: 609 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\\_001142604.2](#)

**RefSeq Size:** 2195 bp

**RefSeq ORF:** 612 bp

**Locus ID:** 5538

**UniProt ID:** [P50897](#)

**Cytogenetics:** 1p34.2

**Protein Families:** Druggable Genome

**Protein Pathways:** Fatty acid elongation in mitochondria, Lysosome, Metabolic pathways

**Gene Summary:** The protein encoded by this gene is a small glycoprotein involved in the catabolism of lipid-modified proteins during lysosomal degradation. The encoded enzyme removes thioester-linked fatty acyl groups such as palmitate from cysteine residues. Defects in this gene are a cause of infantile neuronal ceroid lipofuscinosis 1 (CLN1, or INCL) and neuronal ceroid lipofuscinosis 4 (CLN4). Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Dec 2008]