

## Product datasheet for **RC203278**

### **PPT1 (NM\_000310) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PPT1 (NM\_000310) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PPT1  
**Synonyms:** CLN1; INCL; PPT  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC203278 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCGTCGCCCCGCTGCCTGTGGCTCTTGGCTGTGGCTCTCCTGCCATGGACCTGCGCTTCTCGGGCGC  
TGCAGCATCTGGACCCGCGCGCCGCTGCCGTTGGTGATCTGGCATGGGATGGGAGACAGCTGTTGCAA  
TCCCTTAAGCATGGGTGCTATTAATAAATGGTGGAGAAGAAAATACCTGGAATTTACGTCTTATCTTTA  
GAGATTGGGAAGACCCTGATGGAGGACGTGGAGAACAGCTTCTTCTTGAATGTCAATTTCCCAAGTAACAA  
CAGTGTGTCAAGCACTTCTAAGGATCCTAAATTCAGCAAGGCTACAATGCTATGGGATTCTCCAGGG  
AGGCCAATTTCTGAGGGCAGTGGCTCAGAGATGCCCTTCACTCCATGATCAATCTGATCTCGGTTGGG  
GGACAACATCAAGGTGTTTTGGACTCCCTCGATGCCAGGAGAGAGCTCTCACATCTGTGACTTCATCC  
GAAAAACTGAATGCTGGGGCTACTCCAAAGTTGTTTCAGGAACGCCTCGTGCAAGCCGAATACTGGCA  
TGACCCATAAAGGAGGATGTGTATCGCAACCACAGCATCTTCTTGGCAGATATAAATCAGGAGCGGGT  
ATCAATGAGTCTACAAGAAAACTGATGGCCCTGAAGAAGTTGTGATGGTGAATTCCTCAATGATT  
CCATTGTGGACCCTGTAGATTCTGGAGTGGTTTGGATTTACAGAAGTGGCCAAGCCAAGGAAACCATCC  
CTTACAGGAGACCTCCCTGTACACACAGGACCGCTGGGGCTAAAGGAAATGGACAATGCAGGACAGCTA  
GTGTTTCTGGCTACAGAAGGGGACCATCTTCAGTTGTCTGAAGAATGGTTTTATGCCACATCATACCAT  
TCCTTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC203278 protein sequence  
Red=Cloning site Green=Tags(s)

MASPGCLWLLAVALLPWTCASRALQHLDPAPLPLVIWHGMGDSNPLSMGAIKKMVEKKIPGIYVLSL  
 EIGKTLMEDVENSFFLNVNSQVTTVCQALAKDPKLOQQYNAMGF SQGGQFLRAVAQRCPSPMINLISVG  
 GOHQGVFGLPRCPGESSHICDFIRKTLNAGAYSKVVQERLVQAEYWHDPKEDVYRNHSIFLADINQERG  
 INESYKKNLMALKKFVMVKFLNDSIVDPVDSEWFGFYRSGQAKETIPLQETSLYTQDRLGLKEMDNAGQL  
 VFLATEGDHLQLSEEFYAHIIIFPLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

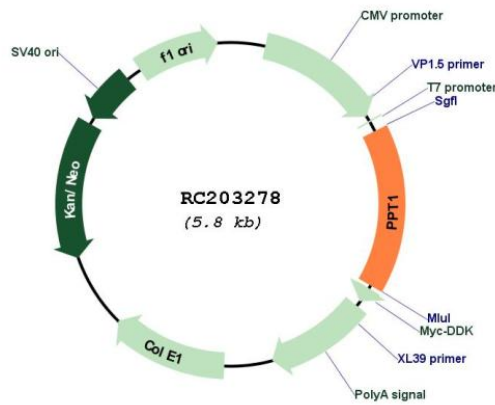
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6050\\_e12.zip](https://cdn.origene.com/chromatograms/mk6050_e12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



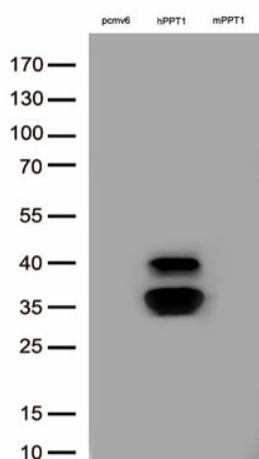
**Plasmid Map:**



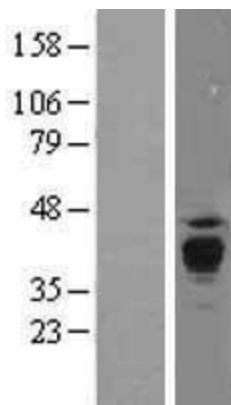
**ACCN:** NM\_000310

<b>ORF Size:</b>	918 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000310.4</a>
<b>RefSeq Size:</b>	2504 bp
<b>RefSeq ORF:</b>	921 bp
<b>Locus ID:</b>	5538
<b>UniProt ID:</b>	<a href="#">P50897</a>
<b>Cytogenetics:</b>	1p34.2
<b>Domains:</b>	Palm_thioest
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Fatty acid elongation in mitochondria, Lysosome, Metabolic pathways
<b>MW:</b>	34.2 kDa
<b>Gene Summary:</b>	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]

**Product images:**



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY human PPT1 (RC203278, Middle lane) cDNA or pCMV6-ENTRY mouse PPT1 ([MR218476], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PPT1. ([TA800618], 1:500). The WB shows that the monoclonal antibody [TA800618] reacts only with human PPT1 and does not cross react with mouse or rat PPT1



Western blot validation of overexpression lysate (Cat# [LY400121]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203278 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).