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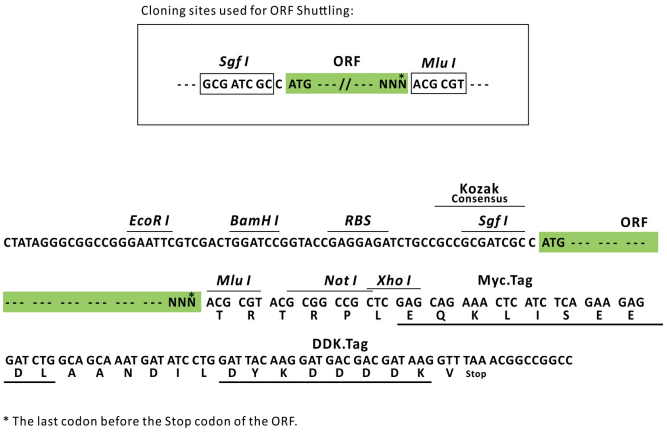
Product datasheet for RC203278L1

PPT1 (NM_000310) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPT1 (NM_000310) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	PPT1
Synonyms:	CLN1; INCL; PPT
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC203278).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	



ACCN:	NM_000310
ORF Size:	918 bp

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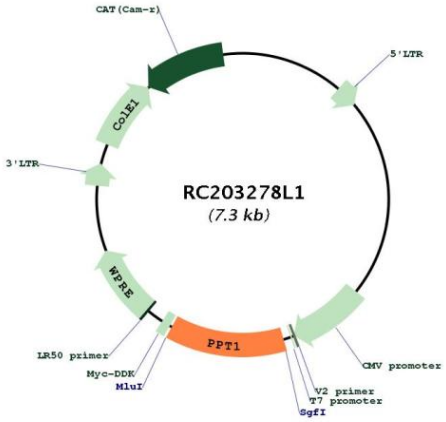
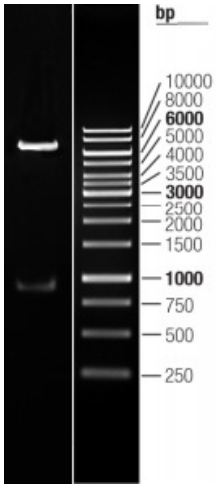
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_000310.2
RefSeq Size:	2504 bp
RefSeq ORF:	921 bp
Locus ID:	5538
UniProt ID:	P50897
Cytogenetics:	1p34.2
Domains:	Palm_thioest
Protein Families:	Druggable Genome
Protein Pathways:	Fatty acid elongation in mitochondria, Lysosome, Metabolic pathways
MW:	34.2 kDa
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]

Product images:



Circular map for RC203278L1



Double digestion of RC203278L1 using SgfI and MluI