

Product datasheet for SC119961

PPT1 (NM_000310) Human Untagged Clone

Product data:

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|---------------------------|---------------------------------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | PPT1 (NM_000310) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PPT1 |
| Synonyms: | CLN1; INCL; PPT |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC119961 sequence for NM_000310 edited (data generated by NextGen Sequencing) |

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ATGGCGTCGCCCGGCTGCCTGTGGCTCTTGCTGTGGCTCTCCTGCCATGGACCTGCGCT
TCTCGGGCGCTGCAGCATCTGGACCCGCGCGCCGCTGCCGTTGGTGATCTGGCATGGG
ATGGGAGACAGCTGTTGCAATCCCTTAAGCATGGGTGCTATTAATAAATGGTGGAGAAG
AAAATACCTGGAATTTACGTCTTATCTTTAGAGATTGGGAAGACCCTGATGGAGGACGTG
GAGAACAGCTTCTTCTGAATGTCAATCCCAAGTAACAACAGTGTGTCAGGCACCTTGCT
AAGGATCCTAAATTGCAGCAAGGCTACAATGCTATGGGATTCTCCAGGGAGGCCAATTT
CTGAGGGCAGTGGCTCAGAGATGCCCTCACCTCCCATGATCAATCTGATCTCGGTTGGG
GGACAACATCAAGGTGTTTTGGACTCCCTCGATGCCAGGAGAGAGCTCTCACATCTGT
GACTTCATCCGAAAACACTGAATGCTGGGGCGTACTCCAAAGTTGTTCCAGGAACGCCTC
GTGCAAGCCGAATACTGGCATGACCCCATAAAGGAGGATGTGTATCGCAACCACAGCATC
TTCTTGCCAGATATAAATCAGGAGCGGGTATCAATGAGTCTACAAGAAAACCTGATG
GCCCTGAAGAAGTTTGTGATGGTGAAATTCCTCAATGATTCCATTGTGGACCCTGTAGAT
TCGGAGTGGTTTGGATTTTACAGAAGTGGCCAAGCCAAGGAAACCATTCCCTTACAGGAG
ACCTCCCTGTACACACAGGACCGCTGGGGCTAAAGGAAATGGACAATGCAGGACAGCTA
GTGTTTCTGGCTACAGAAGGGACCATCTTCAGTTGTCTGAAGAATGGTTTTATGCCAC
ATCATACCATTCTTGGATGA

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Clone variation with respect to NM_000310.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000310 unedited
 GAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGACACAGCGAAGATGGCG
 TCGCCCGGCTGCCTGTGGCTCTTGGCTGTGGCTCTCCTGCCATGGACCTGCGCTTCTCGG
 GCGCTGCAGCATCTGGACCCGCGCGCCGCTGCCGTTGGTGATCTGGCATGGGATGGGA
 GACAGCTGTTGCAATCCCTTAAGCATGGGTGCTATTAATAAATGGTGGAGAAGAAAATA
 CCTGGAATTTACGTCTTATCTTTAGAGATTGGGAAGACCCTGATGGAGGACGTGGAGAAC
 AGCTTCTTCTTGAATGTCAATCCCAAGTAACAACAGTGTGTGAGGCATTGCTAAGGAT
 CCTAAATTGCAGCAAGGCTACAATGCTATGGGATTCTCCAGGGAGGCCAATTTCTGAGG
 GCAGTGGCTCAGAGATGCCCTTACCTCCCATGATCAATCTGATCTCGGTTGGGGACAA
 CATCAAGGTGTTTTGGACTCCCTCGATGCCAGGAGAGAGCTCTCACATCTGTGACTTC
 ATCCGAAAAACACTGAATGCTGGGGCGTACTCCAAAGTTGTTGAGAACGCTCGTGCAA
 GCCGAATACTGGCATGACCCATAAAGGAGGATGTGTATCGCAACCACAGCATCTTCTTG
 GCAGATAAAATCAGGAGCGNGTATCAATGAGTCTACAGNAAAACCTGATGGCCCTGA
 AGAAGTTTGTGATGGTGAATTCCTCAATGATTCCATTGTGNACCCTGTAGATTCNGNA
 GTGGTTGGNNATTTACAGAAAGTGGCCAAGCCAAGGAAACCATTCCCTTACAGAGAACCT
 CCTGTACACAGNACCGNNCTGGGCTAAAGGAATGGACATGCAGACAGCTAGTGTCTCTG
 CTAGAGGNGACCATCTCAGTGCTGAAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000310 unedited
 ACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTAAAAACTACTCTTTA
 TTTTAGACAACCTCATAAAATTATTTTACATCCCCCAACTTCTTGCTTTAATCCTC
 ATCTTTTAGTTGAAGAATAAGGCTTAAGAGAGAGAAAAGGAAAAACATAATGGCTAAACT
 TAGCAGCACCAACACGGTCTTTTTCATCAAGGCGTAGCTCATCATTCTCCAAACTGACAT
 GCTACAGAAATGTCTTCCAAAAAGCGTTAAGTTTTACAGAGTGGGGACTATGATTTCCA
 TGCTCAAATAGTGTAGGAAATGGTAGATTACGTTAGTTTTGTTTACTGTAACAGGAATTC
 TCAGGAGTCCTTAGACACTCTAATGTGGGTTGATCTCCAGAAGGAGAAAGGGAGTGTGTA
 GTATTTTCCAAGCTTTTTGAGCAAAACAATCCTTTTCTCATGGAACACATCAGAAACAGTT
 TGGAGTATGCTGGTAAATGTGTTTTGGGGATGGAAGTCAGAAAGCCTGATCTTTTTTATA
 TGGTTCCTCTATTCTCTGCTAAAGCCAGCAACAGAGTAAGTTGACTCTAGCATCAAGAC
 CACTAGTCATATTAAGAAAGGGCAGGTTGGTCGAGAATGGAATAGGAAGAAGTACTGCTGCC
 TCACCTTTCACTTTCGCGCCTACATTTTCTCGCTCCCTAAGTTATACAAGATGTACATT
 TCCTCTTTAACAATTTATTTGGGTGCTACTTCCCTCCTTTGTGACGCAACTATTATC
 ACTACCTGAGGAGACAAAGTGGGTGCTGCATAAGCAAGACTTGTAGCCAGGGGGATTGCC
 TATAATTGAGATAAGAGATTGATGCCCCNAGGGCACGTCTCAAAGGAAGCGCGCTTAA
 AAGATGCGAATACCAGCAGATTTTTCAGCACTGTTAATACCAACAAGCT

Restriction Sites:

NotI-NotI

ACCN:

NM_000310

Insert Size:

2610 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).

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| Reconstitution Method: | <ol style="list-style-type: none">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 , NP_000301.1 |
| RefSeq Size: | 2358 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 |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p> |