

## Product datasheet for MR229116

### Ppt2 (NM\_001302396) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ppt2 (NM_001302396) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppt2
Synonyms:	0610007M19Rik; AA672937
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229116 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCGGGGCTATGGAGGCAGAGGCTTCCTTCGGCTTGGGCTTTGCTTCTCCTGCCGTTCTCGCCGCTGC  
TGATGCCCGCAGCCCCGCAGCCACCGCGGGTCTACAAGCCCGTGATCGTGGTGACAGGGCTCTTTGA  
CAGTTCATACAGCTTCGCCACCTGCTGGACTATATCAATGAGACACACACCGGGACTGTGGTGACAGTG  
CTTGATCTCTTCGATGGCAGAGAGAGTTTTCGGCCCTGTGGAAACAGGTACAAGGGTCCGAGAGGCTG  
TGGTCCCATCATGAAAAGGCCCTGAAGGAGTGCACCTCATCTGCTACTCCCAGGGGGCCTGGTGTG  
CCGTGCTTTGCTGTCTGTATGGATAACCACAATGTGGACTCTTTCATCTCCCTCTCCTCCACAGATG  
GGCAGTATGGAGACACGGACTATTTGAAATGGCTCTTCCCACGTCCATGCGGTCTAACCTCTATCGGG  
TCTGCTATAGTCCTTGGGGCCAGGAATTTCCATTTGCAACTACTGGCACGATCCTCACCAGATGACTT  
GTACCTCAATGCCAGCAGCTTTCTGGCCCTCATCAATGGGAAAGAGACCATCCCAATGCCACTGCATGG  
CGGAAGAACTTCTTCGCGTGGGCCGTCTGGTCTGATTGGGGTCTGATGATGGCGTTATCACTCCCT  
GGCAATCTAGCTTCTTTGGTTTCTATGATGCCAATGAGACAGTTCTGGAGATGGAGGAGCAGCCGGTGA  
TCTTCGAGATTCTTTGGTTTGAAGACTCTCTGGCCCGGGGGCCATAGTGAGGTGTCCCATGGCTGCC  
ATCTCTCACACCGTGGCACTTAACCGTACGCTCTACGATACTTGATTGAGCCGTGGCTCTCC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229116 protein sequence  
 Red=Cloning site Green=Tags(s)

MPGLWRQLPSAWALLLLPFLPLLMPAAPAAHRGSYKPVIVVHGLFDSSYSFRHLLDYINETHGTGVTV  
 LDLFDGRESLRPLWEVQGFREAVVPIEKAPEGVHLICYSQGGLVCRALLSVMDNHNVDSEISLSSPQM  
 GQYGD TDY LKWL FPT SMRNL YRVCYSPWGQEF S I CNYWHDPHHDDL YLNASSFLAL INGERDHPNATAW  
 RKNFLRVGRLVLIGPDDGVITPWQSSFFGFYDANETVLEMEEQPVYL RDSFGLK TLLARGAIVRCPMAG  
 ISHTTWHSNRTL YDTCIEPWLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001302396

**ORF Size:** 909 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\\_001302396.1](#), [NP\\_001289325.1](#)

**RefSeq Size:** 1710 bp

**RefSeq ORF:** 909 bp

**Locus ID:** 54397

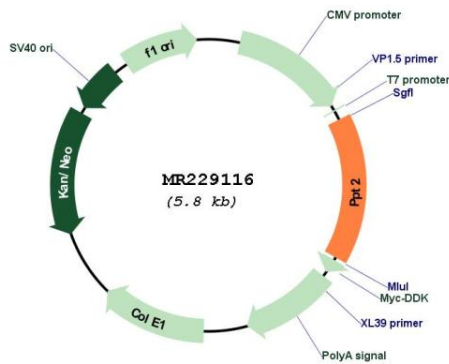
**UniProt ID:** [O35448](#)

**Cytogenetics:** 17 18.19 cM

**MW:** 34.4 kDa

**Gene Summary:** Removes thioester-linked fatty acyl groups from various substrates including S-palmitoyl-CoA. Has the highest S-thioesterase activity for the acyl groups palmitic and myristic acid followed by other short- and long-chain acyl substrates. However, because of structural constraints, is unable to remove palmitate from peptides or proteins (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR229116