

Product datasheet for MR204224

Ppt2 (NM_019441) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppt2 (NM_019441) 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:	>MR204224 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGGGCTATGGAGGCAGAGGCTTCCTTCGGCTTGGGCTTTGCTTCTCCTGCCGTTCTCGCCGCTGC
TGATGCCCGCAGCCCCGAGCCACCGCGGGTCTACAAGCCCGTGATCGTGGTGACGGGCTCTTTGA
CAGTTCATACAGCTTCGCCACCTGCTGGACTATATCAATGAGACACACCCGGGACTGTGGTGACAGTG
CTTGATCTCTTCGATGGCAGAGAGAGTTTGGGCCCTGTGGAACAGGTACAAGGTTCCGAGAGGCTG
TGGTCCCCATCATGGAAAAGGCCCTGAAGGAGTGCACCTCATCTGCTACTCCCAGGGGGCCTGGTGTG
CCGTGCTTTGCTGTCTGTATGGATAACCACAATGTGGACTCTTTCATCTCCCTCTCTCCACAGATG
GGCAGTATGGAGACACGGACTATTTGAAATGGCTCTTCCCACGTCCATGCGGTCTAACCTCTATCGGG
TCTGCTATAGTCCTTGGGGCCAGGAATTTCCATTTGCAACTACTGGCACGATCCTCACCAGATGACTT
GTACCTCAATGCCAGCAGCTTTCTGGCCCTCATCAATGGGGAAAGAGACCATCCCAATGCCACTGCATGG
CGGAAGAACTTCTTCGCGTGGGCCGTCTGGTCTGATTGGGGTCTGATGATGGCGTTATCACTCCCT
GGCAATCTAGCTTCTTTGGTTTCTATGATGCCAATGAGACAGTTCTGGAGATGGAGGAGCAGCCGGTGA
TCTTCGAGATTCTTTGGTTTGAAGACTCTCTGGCCCCGGGGCCATAGTGAGGTGTCCCATGGCTGCC
ATCTCTCACACCAGTGGCACTTAACCGTACGCTCTACGATACTGCATTGAGCCGTGGCTCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204224 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_019441

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_019441.5](#)

RefSeq Size: 1701 bp

RefSeq ORF: 909 bp

Locus ID: 54397

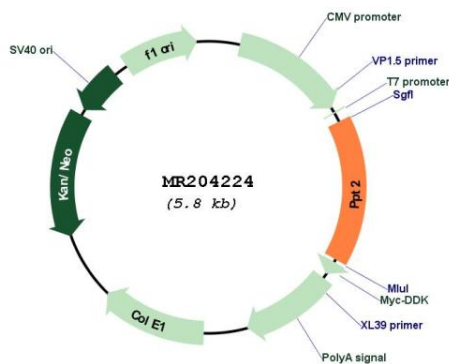
UniProt ID: [O35448](#)

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 MR204224