

Product datasheet for RR201363

Ppt1 (NM_022502) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Ppt1 (NM_022502) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Ppt1
 Synonyms: Ppt
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RR201363 representing NM_022502
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTCGCCCGGTTACCGGAGGCTGCTAGCTGCGGCTCTGCTTCCTTGGTGTTGCGCCGCTGGGCC
 TGGGACATCTGGACCCACCTTCTCCACCACCGCTGGTGATCTGGCATGGGATGGGGACAGCTGCTGTAA
 CCCATGAGCATGGGTAGCATAAAAAGATGGTTGAAAAGGAAATACCAGGGATTACGCTCTGTCTG
 GAGATTGGGAAGAACATGGTGGAGGATGTGGAGAACAGCTTCTTCTTGAATGTCAACCTCCAAGTCGGAA
 TGGCATGTCAGATTCTGAAAAGGATCCTAAGTTGCAACACGGATACAATGCTATTGGCTTCTCCAGGG
 AGGCCAGTTCTGAGGGCAGTGGCTCAGAGATGCCAACACCTCCCATGATGACCCTGATCTCAGTTGGG
 GGACAACATCAAGGTGTCTTTGGACTCCCTCGATGCCCAGGAGAGAGTTCTCATATCTGTGACTTCATCA
 GGAAGTCACTTAACGCTGGTGCTTACTCCAAGTTGTGCAAGAACGCCTGGTGCAAGCACAGTACTGGCA
 TGACCCCATCAAGGAGGAAGTGTACCGAAACTGCAGCATCTTCTTGGCAGACATAAATCAAGAGAGGCAT
 ATCAATGAGTCTACAAGGAGAACCTGATGGCCCTCAAGAAGTTTGTGATGGTGAATTCCTTAAACGATT
 CCATCGTGGACCCTGTAGACTCTGAGTGGTTTGGATTTTACAGAAGTGGCCAAGTAAGGAAACCATTC
 CCTCCAGGAGACCACTCTACACAGAGGACCGCTGGGGCTAAAGAAAATGGACAAAGCAGGAAAGCTA
 GTGTTTCTGGCTAAGGAAGGAGACCACCTCAAATATCTAAAGAGTGGTTTACAGCCACATCATACCTT
 TTCTTAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR201363 representing NM_022502
Red=Cloning site Green=Tags(s)

MASPGYRRLAAALLPWCCAALWGLDPPSPPLVIWHGMGDSCCNPMMSGSIKKMVEKEIPGIYVLSL
 EIGKNMVEDVENSFFLNVLQVGMACQILEKDPKLOHGYNIAIGFSQGGQFLRAVAQRCPTPPMRTLISVG
 GQHOGVFLPRCPGESSHICDFIRKSLNAGAYSKVVQERLVQAQYWHDPKKEEVYRNCISIFLADINQERH
 INESYKENLMALKKFVMVKFFNDSIVDPVDSEWFGFYRSGQAKETIPLQETTLYTEDRLGLKKMDKAGKL
 VFLAKEGDHLQISKEWFTAHIIPFLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3511_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022502

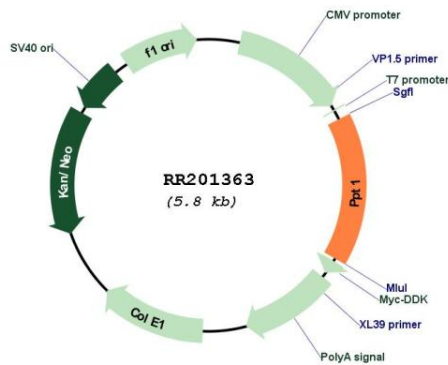
ORF Size: 918 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<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:	<u>NM_022502.2</u> , <u>NP_071947.1</u>
RefSeq Size:	1302 bp
RefSeq ORF:	921 bp
Locus ID:	29411
UniProt ID:	<u>P45479</u>
Cytogenetics:	5q36
MW:	34.5 kDa
Gene Summary:	deficiency causes drastic neurodegeneration; may protect neurons from excitotoxicity; may mediate synaptic plasticity [RGD, Feb 2006]

Product images:



Circular map for RR201363