

Product datasheet for **RR210965**

PPP1ca (NM_031527) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ppp1ca (NM_031527) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ppp1ca
Synonyms: PP1alpha
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR210965 representing NM_031527
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCCGACAGCGAGAAGCTCAACCTGGATTCCATCATCGGGCGCCTGCTGGAAGTGCAGGGCTCACGGC
CTGGAAGAATGTGCAGCTGACAGAGAACGAGATCCGTGGTCTTTCCTCAAATCCCGGGAGATTTCT
GAGCCAGCCTATTCTTCTGGAGCTTGAGGCGCCTCTCAAGATCTGTGGTGACATCCATGGCCAGTACTAT
GACCTTCTACGGCTGTTTCGAGTATGGTGGCTTCCCTCCAGAGAGCAACTACCTCTTCTGGGGACTATG
TGGATCGGGAAAAGCAGTCTTTGGAGACCATCTGCTTGTGTGCTGGCCTATAAGATCAAATACCCGGAGAA
TTTCTTCTACTACGTGGGAACCATGAGTGTGCCAGCATCAACCGCATCTATGGCTTCTATGATGAATGC
AAGAGACGATACAACATCAAAGTGTGGAAGACTTTCACCGACTGCTTCAACTGCCTGCCATTGCAGCCA
TTGTAGATGAGAAGATCTTCTGCTGCCACGGAGGCTGTCTCCAGACTTGCAATCCATGGAGCAGATTAG
ACGTATTATGCGGCCACGGACGTGCCTGACCAGGGCCTGTTGTGTGATCTGCTGTGGTCTGACCCTGAC
AAGGATGTTCAAGGCTGGGGCGAGAATGACCGTGGAGTCTCCTTACCTTTGGGGCCGAGTTGTAGCCA
AGTTCCTGCACAAGCATGATTTGGACCTCATGTCAGAGCACATCAGGTTGTAGAAGATGGCATGAGTT
CTTGGCCAAAGAGGACGCTGGTGACACTTCTCAGCTCCCAACTCTGTGGCGAGTTTGACAACGCTGGC
GCCATGATGAGTGTGGACGAGACTCATGTGTTCTTCCAGATCCTCAAGCCCGCTGATAAGAATAAGG
GGAAGTATGGGCAGTTCAGTGGCCTGAACCCGGAGGCGCTCCCATCACTCCACCCCGCAATTCTGCCAA
AGCCAAGAAA

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210965 representing NM_031527
Red=Cloning site Green=Tags(s)

MSDSEKLNLDISIIGRLLEVQGSRPQGNVQLTENEIRGLCLKSREIFLSQPILLEEAPLKICGDIHGQYY
 DLLRLFEYGGFPPESNYLFGLDYVDRGKQSLLETICLLLAYKIKYPENFFLLRGNHECASINRIYGFYDEC
 KRRYNIKLWKTFTDCFNCLPIAAIVDEKIFCCHGGLSPDLQSMQIRIRMRPTDVPDQGLLCDLLWSDPD
 KDVQGWGENDRGVSFTFGAEVVAKFLHKHDLDLICRAHQVVEDGYEFFAKRQLVTLFSAPNYCGEFDNAG
 AMMSVDETLMCSFQILKPADKKNKGKYGQFSGLNPGGRPITPPRNSAKAKK

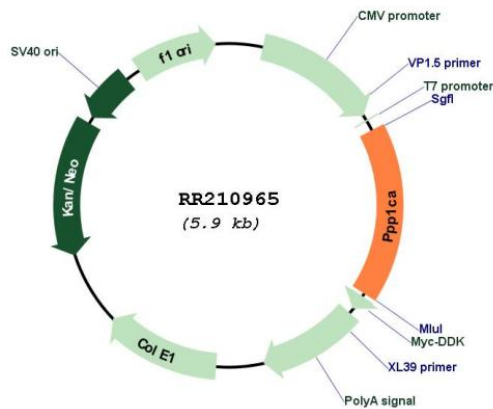
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031527

ORF Size: 990 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:	<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_031527.1 , NP_113715.1
RefSeq Size:	1392 bp
RefSeq ORF:	993 bp
Locus ID:	24668
UniProt ID:	P62138
Cytogenetics:	1q43
MW:	37.5 kDa
Gene Summary:	plays a role in regulation of synaptic transmission [RGD, Feb 2006]