

Product datasheet for **RR205936**

PPP1R1B (NM_138521) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ppp1r1b (NM_138521) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ppp1r1b
Synonyms: Darpp-32; Darpp32
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205936 representing NM_138521
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACCCCAAGGACCGCAAGAAGATCCAGTTCTCTGTGCCCGCCCGCCGAGCCAGCTCGACCCCGAC
 AGGTGGAGATGATCCGGCGCCGGAGGCCAACCCCTGCCTTGTCTCCGGGTCTCAGAGCATTCTCGCC
 AGAGGAGGAGTCTCTCCGCACCAGAGAACCTCAGGAGAGGGGCACCACCAAAGTCGAAGAGACCCAAC
 CCCTGTGCCTACACTCCCCATCACTGAAAGCTGTGCAACGCATCGCTGAGTCCCACCTGCAGACCATCA
 GCAACCTGAGTGAGAACCAGGCCTCGGAGGAAGAGGACGAGTTAGGGGAGCTTCGGGAGCTGGGGTATCC
 ACAAGAGGATGATGAAGAGGATGAGGACGAGGATGAAGAGGAGGACGAAGAAGAAGACAGCCAGGCGGAG
 GTCCTGAAAGGCAGCAGGGGGACTGCGGGGCAGAAGCTTACTTCTGGCCAGGGTCTGGAGGGGCCCTGGG
 AGCGCCCACCTCTCTGGATGAGCCCCAGAGAGATGAAACTCTGAGGACCAAGGGGAAGGCAGAGCAAC
 ACAAAGTGAGCCGGGAGAGGAGCCTCGGCACCCACCCCTGAGTCCGGCACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205936 representing NM_138521
 Red=Cloning site Green=Tags(s)

MDPKDRKKIQFSVPAPPSQLDPRQVEMIRRRRPTPALLFRVSEHSSPEEESSPHQRTSGEGHHPKSKRPN
 PCAYTPPSLKAVQRIAESHLQTI SNLSENQASEEDELGELRELGYQEDDEDEDEDEDEEEDSQAE
 VLKGSRGTAGQKLTSGQLEGPWERPPPLDEPQRDGNSEDQGEGRATQSEPGEEP RHPPTPESGT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

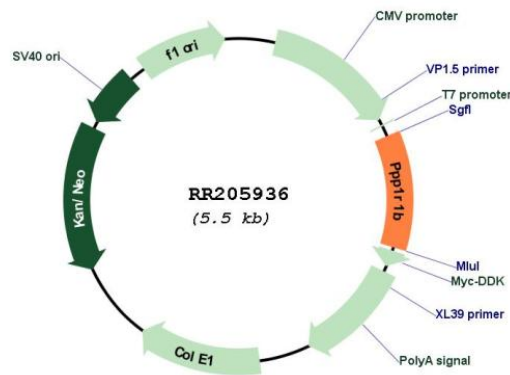


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Cloning Scheme:



Plasmid Map:



ACCN: NM_138521

ORF Size: 615 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_138521.1](#), [NP_612530.1](#)

RefSeq Size: 1764 bp

RefSeq ORF: 618 bp

Locus ID: 360616

UniProt ID: [Q6J4I0](#)

Cytogenetics: 10q31

MW: 22.9 kDa

Gene Summary: potent inhibitor of protein phosphatase 1 (PP1); may play a role in maintaining the levels of excitability of NMDA receptors [RGD, Feb 2006]