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Product datasheet for RC201945

PPP2R5D (NM_006245) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R5D (NM_006245) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP2R5D
Synonyms:	B56D; B56delta; MRD35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC201945 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCTATAAACTGAAAAAGGAGAAGGAGCCCCCCAAGGTTGCCAAATGCACAGCCAAGCCTAGCAGCT
CGGGCAAGGATGGTGGAGGCGAGAACACTGAGGAGGCCCAGCCGCAGCCCCAGCCCCAGCCCCAGCCCCA
AGCCCAGTCTCAGCCACCGTCATCCAACAAGCGTCCCAGCAATAGCACGCCGCCCCCCACGCAGCTCAGC
AAAATCAAGTACTCAGGGGGGCCCCAGATTGTCAAGAAGGAGCGACGGCAAAGCTCCTCCCGCTTCAACC
TCAGCAAGAATCGGGAGCTGCAGAAGCTTCCTGCCCTGAAAGATTCGCCAACCCAGGAGCGGGAGGAGCT
GTTTATCCAGAAGCTACGCCAGTGCTGTGTCCTCTTTGACTTCGTGTCAGACCCACTCAGTGACCTCAAA
TTCAAGGAGGTGAAGCGGGCAGGACTCAACGAGATGGTGGAGTACATCACCCATAGCCGTGATGTTGTCA
CTGAGGCCATTTACCCTGAGGCTGTCACCATGTTTTCAGTGAACCTCTTCCGGACGCTGCCACCTTCATC
GAATCCCACAGGGGCTGAGTTTGACCCAGAGGAAGATGAGCCCACCCTGGAAGCTGCTTGGCCACATCTC
CAGCTCGTGTATGAGTTCTTCTTACGTTTCCTTGAGTCTCCTGATTTCCAGCCAAACATAGCCAAGAAGT
ACATCGACCAGAAGTTTGTACTTGCTCTCCTAGACCTATTTGACAGTGAGGATCCTCGAGAGCGGGACTT
CCTCAAGACCATTTTGCATCGCATCTATGGCAAGTTTTTGGGGCTCCGGGCTTATATCCGTAGGCAGATC
AACCACATCTTCTACAGGTTCATCTACGAGACGGAGCATCACAACGGGATTGCTGAGCTCCTGGAGATCC
TGGGCAGCATCATCAATGGCTTTGCCCTGCCCCTTAAAGAAGAGCACAAGATGTTCCTCATCCGTGTCCT
ACTTCCCCTTCACAAGGTCAAGTCCCTGAGTGTCTACCACCCTCAGCTGGCATACTGTGTGGTACAATTC
CTGGAGAAGGAGAGCAGTCTGACTGAGCCGGTAATTGTGGGACTTCTCAAGTTTTGGCCCAAGACCCACA
GCCCCAAGGAGGTGATGTTCTTGAATGAGCTGGAGGAGATTCTGGACGTCATTGAACCTTCTGAGTTCAG
CAAAGTGATGGAACCCCTCTTCCGCCAGCTGGCCAAGTGTGTCTCTAGCCCCCATTTCCAGGTGGCAGAG
CGTGCTCTCTATTACTGGAACAATGAGTACATCATGAGCCTGATAAGTGACAATGCTGCCCGAGTCCTCC
CCATCATGTTCCCTGCACTCTACAGGAACTCCAAGAGCCACTGGAACAAGACAATCCATGGACTGATCTA
TAATGCCCTGAAGTTGTTTATGGAAATGAATCAGAAGCTGTTTGATGACTGCACACAACAATACAAGGCA
GAGAAGCAGAAGGGCCGGTTCCGAATGAAGGAAAGGGAAGAGATGTGGCAAAAAATCGAGGAGCTGGCCC
GGCTTAATCCCCAGTATCCCATGTTCCGAGCCCCTCCACCACTGCCCCCTGTGTACTCGATGGAGACAGA
GACCCCCACAGCTGAGGACATCCAGCTTCTGAAGAGGACTGTGGAGACTGAGGCTGTTCAGATGCTAAAA
GACATCAAGAAGGAGAAAGTGCTGCTGCGGAGGAAGTCGGAGCTGCCCCAGGACGTGTACACCATCAAGG
CACTGGAGGCGCACAAGCGGGCGGAAGAGTTCCTAACTGCCAGCCAGGAGGCTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201945 protein sequence
Red=Cloning site Green=Tags(s)

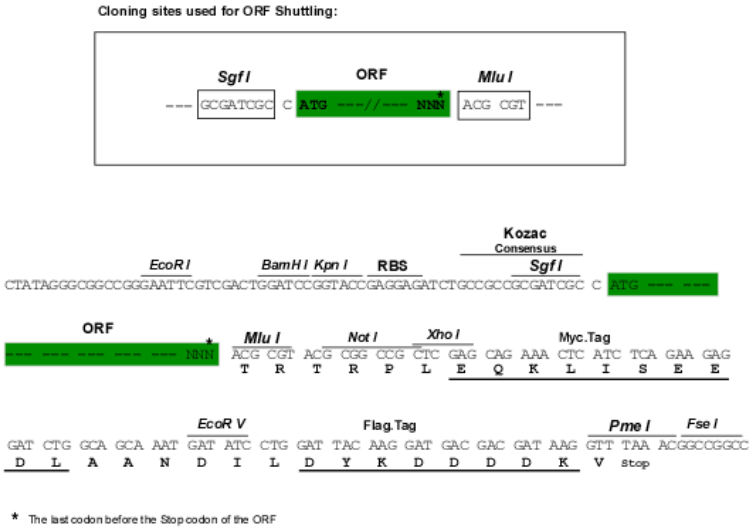
MPYKLKKEKEPPKVAKCTAKPSSSGKDGGGENTEEAQPQPQPQPQPQAQSQPPSSNKRPSNSTPPPTQLS
KIKYSGGPQIVKKERRQSSSRFNLSKNRELQKLPALKDSPTQEREELFIQKLRQCCVLFDFVSDPLSDLK
FKEVKRAGLNEMVEYITHSRDVVTEAIYPEAVTMFSVNLFRTLPPSSNPTGAEFDPEEDEPTLEAAWPHL
QLVYEFFLRFLESPDFQPNIAKKYIDQKFVLALLDLFDSEDPRERDFLKTILHRIYGKFLGLRAYIRRQI
NHIFYRFIYETEHHNGIAELLEILGSIINGFALPLKEEHKMFLIRVLLPLHKVKSLSVYHPQLAYCVVQF
LEKESSLTEPVIVGLLKFWPKTHSPKEVMFLNELEEILDVIEPSEFSKVMEPLFRQLAKCVSSPHFQVAE
RALYYWNNEYIMSLISDNAARVLPIMFPALYRNSKSHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQYKA
EKQKGRFRMKEREEMWQKIEELARLNPQYPMFRAPPPLPPVYSMETETPTAEDIQLLKRTVETEAVQMLK
DIKKEKVLLRRKSELPQDVYTIKALEAHKRAEEFLTASQEAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6278_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006245

ORF Size: 1806 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_006245.4

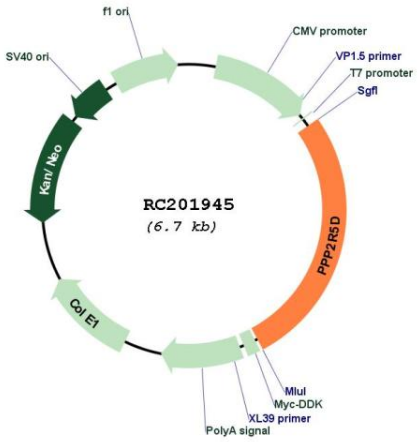
RefSeq Size: 3065 bp

RefSeq ORF: 1809 bp

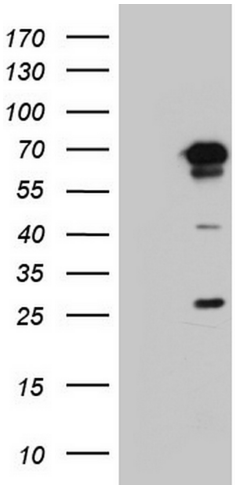
Locus ID: 5528

UniProt ID:	Q14738
Cytogenetics:	6p21.1
Domains:	B56
Protein Families:	Phosphatase
Protein Pathways:	Oocyte meiosis, Wnt signaling pathway
MW:	70 kDa
Gene Summary:	The product of this gene belongs to the phosphatase 2A regulatory subunit B family. Protein phosphatase 2A is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The B regulatory subunit might modulate substrate selectivity and catalytic activity. This gene encodes a delta isoform of the regulatory subunit B56 subfamily. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

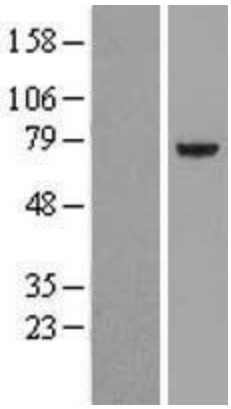
Product images:



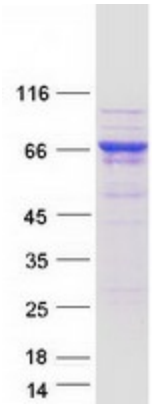
Circular map for RC201945



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PPP2R5D (Cat# RC201945, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PPP2R5D(Cat# [TA803916]). Positive lysates [LY416775] (100ug) and [LC416775] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416775]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201945 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PPP2R5D protein (Cat# [TP301945]). The protein was produced from HEK293T cells transfected with PPP2R5D cDNA clone (Cat# RC201945) using MegaTran 2.0 (Cat# [TT210002]).