

Product datasheet for **RC213696**

PPP1R9B (NM_032595) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1R9B (NM_032595) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP1R9B
Synonyms:	PPP1R6; PPP1R9; SPINO; Spn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC213696 representing NM_032595
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGAAGACGGAGCCACGGGGCCCGGGGTCCCTCCGGAGCGCCTCCCGCACCGCAGCGCCTACG
 AGGCGGGCATCCAGGCGCTGAAGCCGCCGACGCGCCGGGCCGACGAGGCACCCAAGGGGGCCACCA
 CAAGAAATATGGCTCCAACGTCCACCGCATCAAAAGTATGTTCTGCAGATGGGCACGACGGCGGGGCC
 TCGGGCGAGGCGGGCGCGGGCCTGGCCGAGGCCACGGGCGTCCGAGCGCGCGTGCCTGT
 CGTGCCTCGGGCCAGCAGCCTGAACGAGAAGTGGACCACAGCGCCTGCTGAAGCTGGCACCAGCGT
 GTCGGAGCGCTGAGCCGCTCGACTCCAAGCCCGCGCCTCCGCGCAGCCTGCGCCGCCCGCACCCG
 CCGTCCCCTGTCAGGAGACGCGGAAGCTGTTGAAACGGAGCGCCCGAGCGCCGACGGCGGCGACAAGG
 AGGCCCGCGCGCGGGCTGCTGAGGCAGGAGCGCGCCGCTGCAGGACCGGAAGCTGGACGTCGTGGT
 GCGCTTCAACGGCAGCACCGAGGCGCTGGACAAGCTGGACGCTGACGCCGTGTCCCCACGGTCAGCCAG
 CTACGCGCGTCTTCGAGAAGGCCGACTCGAGGACCGCCCTCACCGCGGGCCCGGGCTCCCCAGGGCCG
 CAGGGGTTCCCCAGGTCAACTCGAAGCTGGTCAGCAAGCGGTCCCGGGTGTTCAGCCCCCGCGCCG
 GCCCGCCGCCCGTCCGGGGATGCCCGGCCGAGAAAGAGCGATGCCCGCAGGGCAGCAGCCCCCGCAG
 CACCGAGTGGCCCTGCCCGGCCCGCCCAAGCCCGGGAGGTGCGCAAGATTAAGCCGGTGGAGGTGG
 AGGAGAGCGGGGAGTCCGAGGCGCGAGTCCGGCGCCCGGGAGGTGATCCAGGCCGAGGTTACGGTCCACGC
 GGCCCTGGAGAATGGCAGCACCTGGCAACTGCAGCCAGCCCGCGCCGAGGAGCCAAAGGCCAAAGCG
 GCCCGGAGAGGAGCGCGGGCTAGCGCCCGCAGAGAGGGGGTGGCAATGGCCGGCCCGGACG
 TGGCCCTGAGGAGGTAGATGAATCCAAGAAGGAGGACTTCTCGAGGCGGACTTGGTGGACGTGAGCGC
 CTACAGTGGGCTCGGGGAGGACTCTCGGGCAGTGCCTTGAGGAGGACGACGAAGACGACGAGGAGGAT
 GGGGAGCCCCCTACGAGCCGAGTCCGGGTGCGTGGAGATCCCGGGGCTGTCCGAGGAGGAGGACCCAG
 CCCCAGCCGGAAGATCCATTTACGACCGGCCCATCCAAGTGTTCAGCACTTACTCCAACGAGGATTA
 CGATCGTCGCAACGAGGATGTGGATCCCATGGCAGCCTCTGCTGAGTACGAGCTGGAGAAGCGTGTGGAG
 AGGTTGGAGCTGTTCCCTGTGGAGCTGGAGAAGGACTCCGAGGGCCTGGGCATCAGCATCATCGGCATGG
 GCGCCGGGCAGACATGGCCTGGAGAAGCTGGGTATCTTCGTAAGACCGTACGAGGAGGTGGTGGCGC
 CCATCGGGATGGCAGGATCCAGGTGAATGATCTCCTGGTGGAGGTGGATGGAACAAGTCTGGTGGGAGTG
 ACCCAGAGCTTCGCGGCTGTGCTCCGGAACACCAAGGGCCGAGTGGGTTTATGATTGGCCGGGAGC
 GGCCGGGAGAGCAGAGCGAAGTGGCCAGCTAATTCAGCAGACTTTGGAACAGGAGCGATGGCAGCGGGA
 GATGATGGAGCAGAGATACGCCAGTATGGGGAGGATGACGAGGAGACGGGAGAGTATGCCACTGACGAG
 GATGAGGAGCTGAGCCCCACGTTCCCGGGTGGTGGATGGCCATCGAGGTGTTTGGAGCTAGCGGAGAACG
 AGGATGCACTGTCCCCTGTGGACATGGAGCCCGAGAAGCTGGTGCACAAGTTCAAGGAGCTCCAGATCAA
 GCATGCGGTCACTGAGGCAGAGATCCAGCAGCTGAAAAGAAAGCTGCAGAGCCTGGAGCAGGAGAAGGGG
 CGCTGGCGGTGGAGAAGGCGCAGTTGGAGCAGAGTGTGGAGGAGAACAAGGAGCGCATGGAGAACTGG
 AAGGCTACTGGGTGAGGCCAGAGCCTGTGCCAGGCTGTGGACGAGCACCTGCGGGAGACTCAGGCGCA
 GTACCAGGCCCTGGAGCGCAAGTACAGCAAGCCAAAGCGCCTCATCAAGGACTACCAGCAGAAGGAGATC
 GAGTTCCTGAAAAGGAGACTGCACAGCGTCGGGTTCTGGAGGAGTCGGAGCTGGCCAGAAAGGAGAGA
 TGGACAAGCTCCTGGACAAGATCTCAGAACTGGAAGGAACTTGCAAACTGAGGAATTCATCTAC
 T

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213696 representing NM_032595
Red=Cloning site Green=Tags(s)

MMKTEPRGPGPLRSASPHRSAYEAGIQALKPPDAPGPDEAPKGAHHKKYGSNVHRIKSMFLQMGTTAGP
SGEAGGGAGLAEAPRASERGVRLSLPRASSLNENVDSALLKLGTSVSRVSRFDSKPAPSAQPAPPPHP
PSRLQETRKL FERSAPAAAGGDKEAAARRLLRQERAGLQDRKLDVVVRFNGSTEALDKLDADAVSPTVSQ
LSAVFEKADSR TGLHRGPGLPRAAGVPQVNSKL VSKRSRVFQPPPPPPPAPSGDAPAEKERCPAGQQPPQ
HRVAPARPPPKPREVRKIKPVEVEESGESEAESAPGEVIQAEVTVHAALENGSTVATAASPAPPEPKAQA
APEKEAAAVAPPERGVNGRAPDVAPEEVDESKKEDFSEADLVDVSAYSGLGEDSAGSALEEDDEDDEED
GEPPEYEPESGCVEIPGLSEEEDPAPSRKIHFSTAPIQVFSTYSNEDYDRRNEDVDPMAASAEYELEKRVE
RLELFPVELEK DSEGLGISIIGMGAGADMGLEKLGIFVKTVTEGGAAHRDGRIQVNDLLVEVDGTSLVGV
TQSF AASVLRNTKGRVRFMIGRERPGEQSEVAQLIQQTLEQERWQREMMEQRYAQYGEDDEETGEYATDE
DEELSPTFPGGEMAI EVFELAE NEDALSPVDMEPEKLVHKFKELQIKHAVTEAEIQQLKRKLSLEQEK
RWRV EKAQLEQSVEENKERMEKLEGYWGEAQLCQAVDEHLRETQAQYQALERKYSKAKRLIKDYQQKEI
EFLKKETAQRRVLEESELARKEEMDKLLDKISELEGNLQTLRNSNST

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8011_d10.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_032595

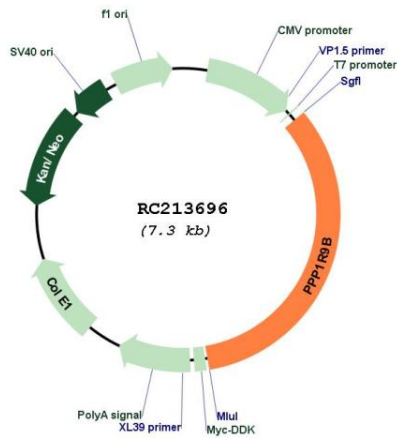
ORF Size: 2451 bp

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.

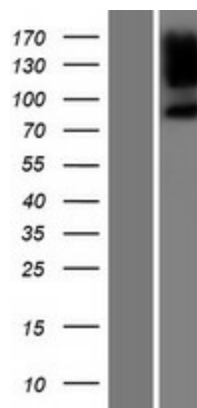
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	NM_032595.5
RefSeq Size:	4071 bp
RefSeq ORF:	2454 bp
Locus ID:	84687
UniProt ID:	Q96SB3
Cytogenetics:	17q21.33
Protein Families:	Druggable Genome, Phosphatase
MW:	89.2 kDa
Gene Summary:	This gene encodes a scaffold protein that functions as a regulatory subunit of protein phosphatase 1a. Expression of this gene is particularly high in dendritic spines, suggesting that the encoded protein may play a role in receiving signals from the central nervous system. The encoded protein has putative tumor suppressor function and decreased expression has been observed in tumors. [provided by RefSeq, Feb 2014]

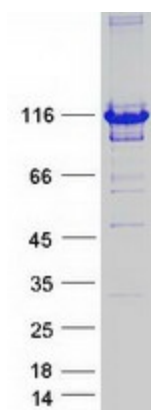
Product images:



Circular map for RC213696



Western blot validation of overexpression lysate (Cat# [LY410010]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213696 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PPP1R9B protein (Cat# [TP313696]). The protein was produced from HEK293T cells transfected with PPP1R9B cDNA clone (Cat# RC213696) using MegaTran 2.0 (Cat# [TT210002]).