

Product datasheet for **RC218476**

PPP1R16B (NM_015568) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1R16B (NM_015568) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP1R16B
Synonyms:	ANKRD4; TIMAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC218476 representing NM_015568.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGCCAGTCACGTGGACCTGCTGACGGAGCTGCAGCTGCTGGAGAAGGTGCCACGCTGGAGCGGCTG
CGGGCTGCCAGAAGCGCCGGGCCAGCAGCTGAAGAAATGGGCACAGTACGAGCAGGACTTGACGAC
CGCAAGCGAAAGCATGAGCGGAAGCGCAGCACGGGCGGCCGCGCAAGAAAGTGTCTTCGAGGCCAGC
GTGGCCCTGCTGGAGGCCTCGCTGAGGAACGACGCCGAGGAAGTACGCTACTTCTGAAGAATAAGGTC
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ATTGTGAAGCTGCTCTCTCCATGGTGCCAATGTGAACGCCAAGGACAACGAGCTGTGGACACCTCTC
CATGCTGCAGCCACCTGCGGCCACATCAACCTGGTGAAGATCCTCGTTCAGTATGGGGCCGACTTGCTT
GCTGTCAACTCGGATGGGAACATGCCATATGACCTCTGCGAGGATGAACCCACCTGGATGTCATCGAG
ACCTGCATGGCATACAGGGCATCACCAAGAGAAAATCAACGAGATGCGGGTGGCTCCTGAGCAGCAG
ATGATTGCGGACATCCACTGCATGATCGCAGCGGGCCAGGACCTGGACTGGATAGATGCCAGGGTGCC
ACACTGCTGCACATAGCTGGAGCCAATGGATACCTGCGGGCAGCTGAGCTCCTCTGGACCATGGAGTG
CGTGTGGATGTGAAGGACTGGGATGGCTGGGAGCCCTGCATGCAGCTGCCTTCTGGGGACAGATGCAG
ATGGCAGAGCTATTGGTGTCCCATGGAGCTAGTCTCAGTGCAAGGACATCCATGGATGAGATGCCAATA
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AAGCGGCAGCGGCTGCAGCCAAGCTGCTCAGCCACCCCTTCTTAGCACACCTGGGCAGCAGCATG
GCCAGGACGGGCGAGAGTAGCAGTGAAGGCAAGGCCCTTGTATCGGAGGCAGAACTTACCCTACAGC
AGCAATGGGACCTCGGTATATTACAGGTACCAGCGGAGATCCCCACTCTTAAAGTTCAAGGCCCCC
ATAGAGGAGATGGAGGAGAAGGTGCATGGCTGTTGCCGTATCTCC
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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Protein Sequence:

>Peptide sequence encoded by RC218476
 Blue=ORF Red=Cloning site Green=Tag(s)

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MASHVDLLTELQLEKVPRLRLRAAQKRRRAQQLKKWAQYEQDLQHRKRKHERKRSTGRRKKVSFEAS
VALLEASLRNDAAEVRYFLKNKVPDLNEDGLTALHQCCIDNFEEIVKLLSHGANVNAKDNLWPL
HAAATCGHINLVKILVQYGADLLAVNSDGNMPYDLCEDEPTLDVIETCMAYQGITEKINEMRVAPEQQ
MIADIHCMIAAGQDLWDIDAQGATLLHIAGANGYLRAAELLLDHGVRVDVKDWDGWEPLHAAAFWGMQ
MAELLVSHGASLSARTSMDEMPIDLCEEEEFKVLLELKHKHDVIMKSQLRHKSSLRRTSSAGSRGKV
VRRASLSDRTNLYRKEYEGEAILWQSAEDQRTSTYNGDIRETRTDQENKDPNPRLEKPVLLSEFPTK
IPRGELDMPVENGLRAPVSAYQYALANGDVWKVHEVPDYSMAYGNPGVADATPPWSSYKEQSPQTLEL
KRQRAAAKLLSHPFLSTHLGSSMARTGESSEGGKAPLIGGRTSPYSSNGTSVYYVTSGDPPLLKFKAP
IEEMEEKVHGCCRIS
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
  
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Recombinant protein using RC218476 also available, [TP318476](#)

Chromatograms:

https://cdn.origene.com/chromatograms/mg2598_b05.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_015568

ORF Size: 1701 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq Size: 6251 bp

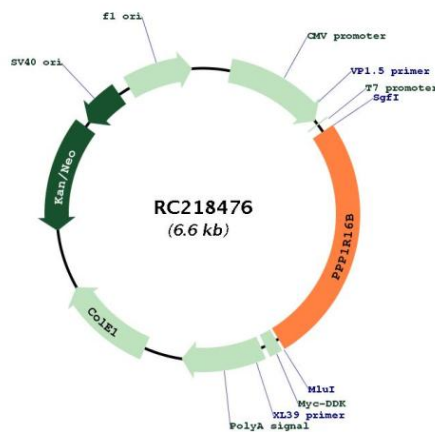
RefSeq ORF: 1704 bp

Locus ID: 26051

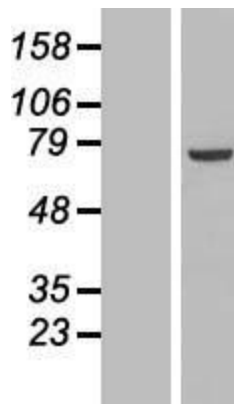
UniProt ID: [Q96T49](#)

Cytogenetics:	20q11.23
Protein Families:	Druggable Genome
MW:	63.6 kDa
Gene Summary:	The protein encoded by this gene is membrane-associated and contains five ankyrin repeats, a protein phosphatase-1-interacting domain, and a carboxy-terminal CAAX box domain. Synthesis of the encoded protein is inhibited by transforming growth factor beta-1. The protein may bind to the membrane through its CAAX box domain and may act as a signaling molecule through interaction with protein phosphatase-1. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]

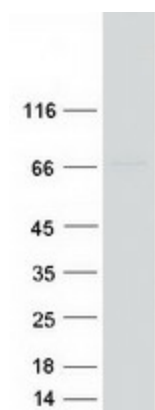
Product images:



Circular map for RC218476



Western blot validation of overexpression lysate (Cat# [LY402449]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218476 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PPP1R16B protein (Cat# [TP318476]). The protein was produced from HEK293T cells transfected with PPP1R16B cDNA clone (Cat# RC218476) using MegaTran 2.0 (Cat# [TT210002]).