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Product datasheet for RC222908

PPP2R3B (NM_013239) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R3B (NM_013239) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP2R3B
Synonyms:	NYREN8; PPP2R3L; PPP2R3LY; PR48; PR70
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC222908 representing NM_013239
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGCCCGGCAAAGTGCTGCAGCCGGTCCTGAAGATGAAGGTGGACGAGCTGTTCCTGTACTGGCTCA
GCGAGGCCAGCACGCAGCGGATGCTGCAGGACTGCCTGCGCCGGATCAAGGCGCCCGGGCGGGACCAGCC
GACCCCGGGGGACGGGGAGCAGCCCGGGGCCTGGCCCACAGCCCCGCTCGCCGCCCCCCGGCCCAGCGGG
CTCGAACCCCCGGGAACCCCCGGGCCGGGCCCTGCGCTGCCCCTGGGCGCCGCCTCCAGCCCCAGGAACG
CGCCCCACGTTCGAGGCACCCGTAGATCCGCAGGGACGAGAGTAGTTCAGACACGGAAAGAAGAGCCTCT
GCCCCCGGCCACGAGCCAAAGCATTCCGACCTTCTACTTCCCCAGAGGACGCCCGCAGGACTCCGTCAAC
GTGGATGCCGTCATCAGCAAGATCGAGAGCACCTTCGCCCGGTTCCCCCACGAGAGGGCCACCATGGATG
ACATGGGCCTGGTGGCCAAGGCCTGCGGCTGCCCCCTCTACTGGAAGGGGCCGCTCTTCTATGGCGCCGG
CGGGGAGCGCACGGGCTCCGTGTCCGTCCACAAGTTCGTCGCCATGTGGAGAAAAATCCTCCAGAACTGC
CACGACGACGCGGCCAAGTTCGTCCATCTGCTCATGAGCCCCGGCTGCAACTACCTGGTGCAGGAGGACT
TTGTCCCCTTCTTGCAGGACGTGGTGAACACGCACCCGGGGCTGTCGTTCCTGAAGGAGGCGTCCGAGTT
CCACTCGCGCTACATCACCACGGTCATCCAGCGGATCTTCTACGCCGTGAACCGGTCCTGGTCCGGCAGG
ATCACCTGCGCCGAGCTGCGGAGGAGCTCCTTCCTGCAGAATGTGGCGCTGCTGGAGGAGGAGGCGGACA
TCAACCAGCTGACCGAATTCTTCTCGTACGAGCATTTCTACGTCATCTACTGCAAGTTCTGGGAGCTGGA
CACGGACCACGACCTGCTCATCGACGCGGACGACCTGGCGCGGCACAATGACCACGCCCTTTCTACCAAG
ATGATAGACAGGATCTTCTCAGGAGCAGTCACACGAGGCAGAAAAGTGCAGAAGGAAGGGAAGATCAGCT
ATGCCGACTTTGTCTGGTTTTTGATCTCTGAGGAAGACAAAAAAACACCGACCAGCATCGAGTACTGGTT
CCGCTGCATGGACCTGGACGGGGACGGCGCCCTGTCCATGTTCGAGCTCGAGTACTTCTACGAGGAGCAG
TGCCGAAGGCTGGACAGCATGGCCATCGAGGCCCTGCCCTTCCAGGACTGCCTCTGCCAGATGCTGGACC
TGGTCAAGCCGAGGACTGAAGGGAAGATCACGCTGCAGGACCTGAAGCGCTGCAAGCTGGCYAACGTCTT
CTTCGACACCTTCTTCAACATCGAGAAGTACCTCGACCACGAGCAGAAAGAGCAGATCTCCCTGCTCAGG
GACGGTGACAGCGGCGGCCCCGAGCTCTCGGACTGGGAGAAGTACGCGGCCGAGGAGTACGACATCCTGG
TGGCCGAGGAGACYGYGGGAGAGCCCTGGGAGGACGGGTTCGAGGCCGAGCTCAGCCCYGTGGAGCAGAA
GCTGAGTGCGCTGCGCTCCCCGCTGGCCCAGAGGCCCTTCTTCGAGGCGCCCTCACCGCTGGGCGCCGTG
GACCTGTACGAGTACGCATGCGGGGACGAGGACCTGGAGCCGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222908 representing NM_013239
Red=Cloning site Green=Tags(s)

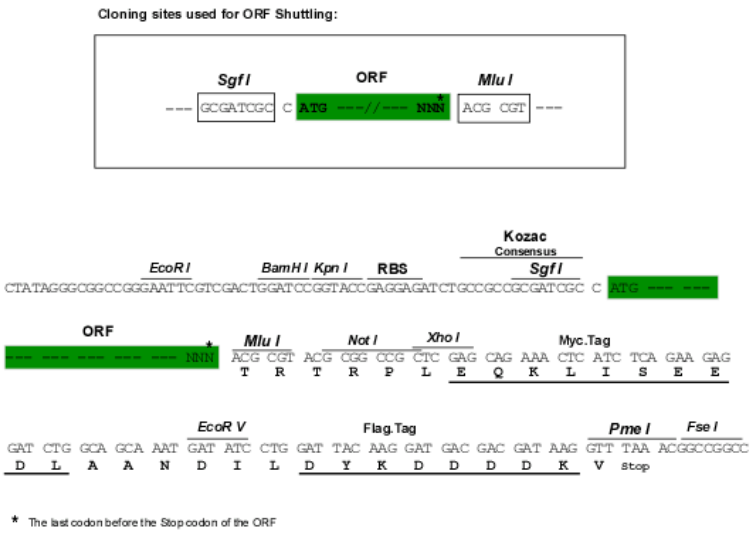
MPPGKVLQPVLKMKVDELFLYWLSEASTQRMLQDCLRRIKAPGRDQPTPGDGEQPGAWPTAPLAAPRPSG
LEPPGTPGPGPALPLGAASSPRNAPHVRGTRRSAGTRVVQTRKEEPLPPATSQSIPTFYFPRGRPQDSVN
VDAVISKIESTFARFPHERATMDDMGLVAKACGCPLYWKGPLFYGAGGERTGSVSVHKFVAMWRKILQNC
HDDAAKFVHLLMSPGCNYLVQEDFVPFLQDVVNTHPGLSFLKEASEFHSRYITTVIQRIFYAVNRSWSGR
ITCAELRRSSFLQNVALLEEEADINQLTEFFSYEHFYVIYCKFWELDTDHDLLIDADDLARHNDHALSTK
MIDRIFSGAVTRGRKVQKEGKISYADFVWFLISEEDKKTPTSIEYWFRCMDLDGDGALSMFELEYFYEEQ
CRRLDSMAIEALPFQDCLCQMLDLVKPRTEGKITLQDLKRCKLXNVFFDTFFNIEKYLDHEQKEQISLLR
DGDSGGPELSDWEKYAAEEYDILVAEEXXGEPWEDGFEAELSXVEQKLSALRSPLAQRPFFEAPSPLGAV
DLYEYACGDEDLEPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4495_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013239

ORF Size: 1725 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: NM_013239.5

RefSeq Size: 2071 bp

RefSeq ORF: 1728 bp

Locus ID: 28227

UniProt ID: Q9Y5P8

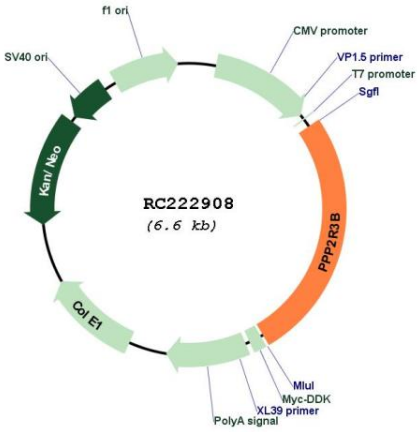
Cytogenetics: X;Y

Protein Families: Druggable Genome, Phosphatase

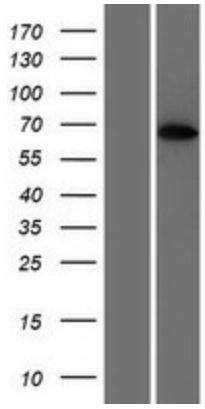
MW: 64.9 kDa

Gene Summary: Protein phosphatase 2 (formerly named type 2A) is one of the four major Ser/Thr phosphatases and is implicated in the negative control of cell growth and division. Protein phosphatase 2 holoenzymes are heterotrimeric proteins composed of a structural subunit A, a catalytic subunit C, and a regulatory subunit B. The regulatory subunit is encoded by a diverse set of genes that have been grouped into the B/PR55, B'/PR61, and B''/PR72 families. These different regulatory subunits confer distinct enzymatic specificities and intracellular localizations to the holozenzyme. The product of this gene belongs to the B'' family. The B'' family has been further divided into subfamilies. The product of this gene belongs to the beta subfamily of regulatory subunit B''. [provided by RefSeq, Apr 2010]

Product images:



Circular map for RC222908



Western blot validation of overexpression lysate (Cat# [LY415717]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222908 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).