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Product datasheet for RC209027

PPP2R3A (NM_002718) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R3A (NM_002718) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP2R3A
Synonyms:	PPP2R3; PR72; PR130
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209027 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGCAACTTACAGACTTGTGGTTAGTACTGTGAACCACTACAGCAGCGTGGTGATAGACCGGCGTT
TTGAACAAGCTATACATTATTGCACTGGAACCTGCCACACCTTCACACATGGAATTGACTGCATTGTGGT
ACACCATAGTGTTTGTGCAGACCTCTTGCACATCCCTGTGTCTCAGTTCAAAGATGCAGATCTGAACTCT
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CAGTTTTGCCAGTGGGAAAATAAAAGAATTTTCCTTTGAAAAACTCAAAAACTCTAACCATGCAGCTTAC
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CACTGAACAACCCCCTAAATATGAAGATGTTGTCCAGCTCTCAGCTTCTGACTCTGGACGATTTCAAACT
ATTGAATTGCAAAATGACAAGCCTAATTCTAGGAAGATGGACACTGTACAATCCATTCCAAACAACTCCA
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TGAAATTGGTAAGATATTTGAGAAATCATTTGTTAATCTACCTAAGGAAGACTGTAAATCAAAAGTTTCT

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AAATTTGAAGAGGGAGACCAGAGAGATTTTACAAATTCCAGTAGCCAGGAAGAGATAGATAAATTGTTAA
TGGATTTGGAATCTTTTTCACAGAAGATGGAGACCTCTCTAAGAGAGCCACTTGCGAAGGGTAAAAACTC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209027 protein sequence
Red=Cloning site Green=Tags(s)

MAATYRLVVSTVNHYSSVVIDRRFEQAIHYCTGTCHTFTHGIDCIVVHHSVCADLLHIPVSQFKDADLNS
MFLPHENGLSSAEGDYPQQAFTGIPRVKRGSTFQNTYNLKDIAGEAISFASGKIKEFSFEKLKNSNHAAY
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IELQNDKPNSRKMDTVQSIPNNSTNSLYNLEVNDPRTLKAVQVQSQSLTMNPLENVSSDDLMETLYIEEE
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FYDTFFNLEKYLDHEQRDPFAVQKDVENDGPEPSDWDRFAAEEYETLVAEGSAQAQFQEGFEDYETDEPA
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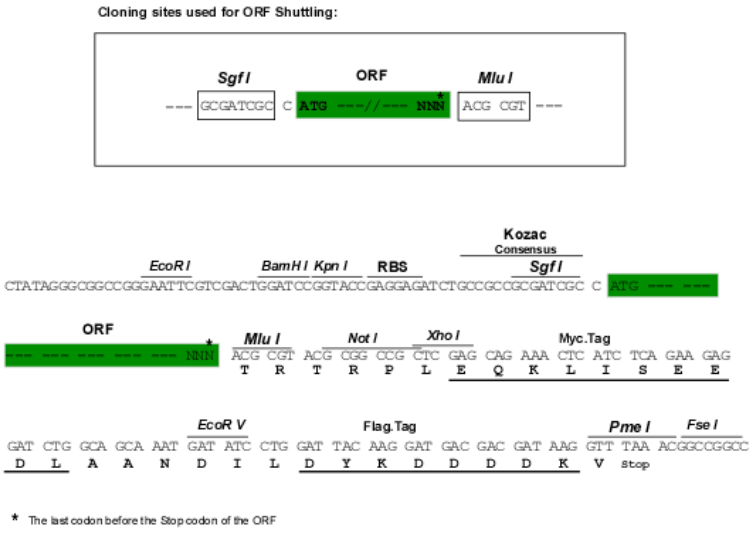
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



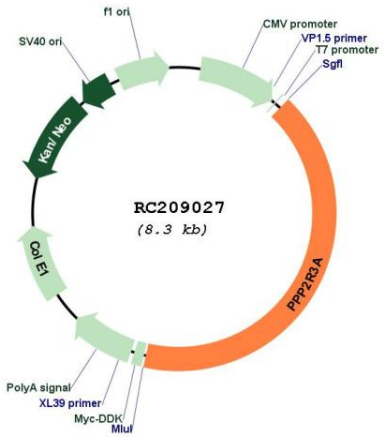
ACCN: NM_002718

ORF Size: 3450 bp

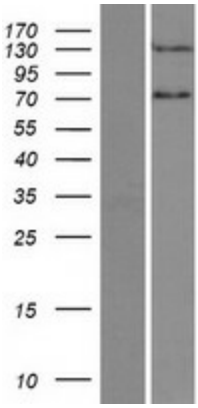
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	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_002718.5
RefSeq Size:	6814 bp
RefSeq ORF:	3453 bp
Locus ID:	5523
UniProt ID:	Q06190
Cytogenetics:	3q22.2-q22.3
Domains:	EFh
Protein Families:	Druggable Genome, Phosphatase
MW:	130.2 kDa

Gene Summary: This gene encodes one of the regulatory subunits of the protein phosphatase 2. 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 alpha subfamily of regulatory subunit B''. Alternative splicing results in multiple transcript variants encoding different isoforms.[provided by RefSeq, Jun 2010]

Product images:



Circular map for RC209027



Western blot validation of overexpression lysate (Cat# [LY419144]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209027 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).