

## Product datasheet for RC230827

### PPP2R3A (NM\_001190447) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R3A (NM_001190447) 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:	>RC230827 representing NM_001190447 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGATATTGAAGAACAGAAAGCAGACATTTATGAAATGGGGAAAATTGCAAAGTCTGTGGCTGCCTC  
TCTATTGGAAAGCCCCATGTTCCAGGGCTGCAGGGGAGAGAAGACAGGATTTGTGACAGCACAGTCATT  
CATTGCCATGTGGAGAAAGTTGCTGAATAACCATCATGATGATGCCTCTAAATTCATCTGTCTTCTAGCA  
AAGCCCAACTGCAGCTCTCTAGAACAGGAGGATTTCCCTCTACTTCAGGATGTGGTGGATACCCACC  
CTGGTCTCAGGTTCTGAAAGATGCTCCAGAATCCACTCCGCTACATCACCACGGTTATTCAGAGAAT  
ATTCTACACAGTCAACAGATCTTGGAGTGGAAAAATTACTTCGACAGAGATAAGAAAAAGCAACTTTTTG  
CAAACCTAGCACTTTTGGAAAGAAGAGGAAGATATAAACCAAATTACAGATTACTTCTCCTATGAACATT  
TCTATGTTATTTATTGTAATTTCTGGAACTAGATACTGATCACGACCTCTACATCAGCCAGGCCGATCT  
GTCTCGATACAATGACCAGGCTTCATCAAGCAGGATTATTGAAAGGATATTCTCTGGTGCAGTAACAAGG  
GGAAAAACAATACAGAAAGAGGGGAAGATGAGCTATGCAGATTTTGTGGTTTTGATCTCTGAAGAAG  
ACAAAAGGAATCCTACCAGCATTGAGTATTGGTTCCGCTGCATGGATGTGGATGGAGACGGTGTACTCTC  
CATGTATGAGCTGGAGTACTTCTATGAGGAGCAGTGTGAACGGATGGAAGCCATGGGAATTGAGCCCTTG  
CCATTCATGATTTACTGTGCCAGATGCTTGACCTAGTGAAGCCAGCTGTTGATGGCAAAAATACTCTAA  
GAGATCTGAAGAGGTGCAGAATGGCTCACATCTTCTATGACACTTTCTTTAATCTGGAGAAATACTTAGA  
CCATGAACAGAGAGATCCCTTTGCGGTCCAGAAGGATGTTGAGAACGATGGGCCTGAGCCCTCAGACTGG  
GACCGGTTTGCCGCTGAGGAGTATGAGACGCTTGTGAGAGGAATCTGCCCAAGCACAATTCCAGGAAG  
GCTTTGAAGATTATGAAACAGATGAACCTGCCTCTCCCTCTGAATTTGAAACAAAAGCAATAAAATATT  
AAGTGCAAGCCTTCCAGAGAAATGTGGAAGCTTCAATCAGTGGATGAAGAA

**ACGGT**ACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online >](#)

**Protein Sequence:** >RC230827 representing NM\_001190447  
 Red=Cloning site Green=Tags(s)

MDIEEQKADIYEMGKIAKVCGCPLYWKAPMFRAAGGEKTFVTAQSFIAMWRKLLNNHHDDASKFICLLA  
 KPNCSSLEQEDFIPLLQDVVDTHPGLTFLKDAPEFHRSRYITTVIQRIFYTVNRSWSGKITSTEIRKSNFL  
 QTLALLEEEEDINQITDYFSYEHFYVIYCKFWELDTDHDLYISQADLSRYNDQASSRIIERIFSGAVTR  
 GKTIQKEGRMSYADFVWFLISEEDKRNPTSIEYWFRCMDVDGDGVLSMYELEYFYEEQCERMEAMGIEPL  
 PFHDLCCQMLDLVKPAVDGKITLRDLKRCRMAHIFYDTFFNLEKYLDHEQRDPFAVQKDVENDGPEPSDW  
 DRFAAEEYETLVAEESAQAQFQEGFEDYETDEPASPSEFGNKSNIKLSASLPEKCGKLQSVDEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001190447

**ORF Size:** 1242 bp

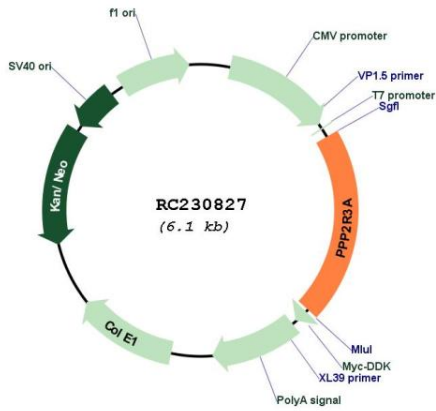
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001190447.2</a>
<b>RefSeq Size:</b>	4379 bp
<b>RefSeq ORF:</b>	1245 bp
<b>Locus ID:</b>	5523
<b>UniProt ID:</b>	<a href="#">Q06190</a>
<b>Cytogenetics:</b>	3q22.2-q22.3
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>MW:</b>	48.2 kDa
<b>Gene Summary:</b>	<p>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 holoenzyme. 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]</p>

Product images:



Circular map for RC230827