

## Product datasheet for RC237921

### PPP2R5E (NM\_001282182) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R5E (NM_001282182) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP2R5E
Synonyms:	B56E; B56epsilon
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237921 representing NM_001282182 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGACACGCTATCTGATCTTAAAATGAAAGAATACAAGCGCTCCACTCTTAATGAAGTGGTGGACTACA  
TTACAATAAGCAGAGGCTGTTTGACAGAGCAGACTTACCCTGAAGTAGTTAGAATGGTATCTTGCAATAT  
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TCGTGGCCACACTTACAGCTTGTATATGAATTTTCATACGATTTTGGAAAGCCAAGAATTCACACCCA  
GCATTGCCAAAAATATATAGATCAGAAATTTGTATTACAGCTTCTGGAGCTATTTGACAGCGAAGACCC  
TCGGGAACGGGACTACTTAAAAACAGTCTTACACAGAATTTATGGCAAGTTTCTTGGTCTTAGAGCATT  
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CTAACGTCATCCTTCCCATCATGTTTTCCAGCCTTTATAGGATTTCAAAGAACATTGGAATCCGGCTAT  
TGTGGCGTTGGTGTACAATGTGTTGAAGGCATTTATGGAATGAACAGCACCATGTTTGACGAGCTGACA  
GCCACATAACAAGTCAGATCGTCAGCGTGAGAAAAAGAAAAGGAGCGTGAAGAATTGTGAAAAAAT  
TGGAGGATCTGGAGTTAAAGAGAGGTCTTAGACGTGATGAATAATTCCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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Protein Sequence: >RC237921 representing NM\_001282182  
 Red=Cloning site Green=Tags(s)

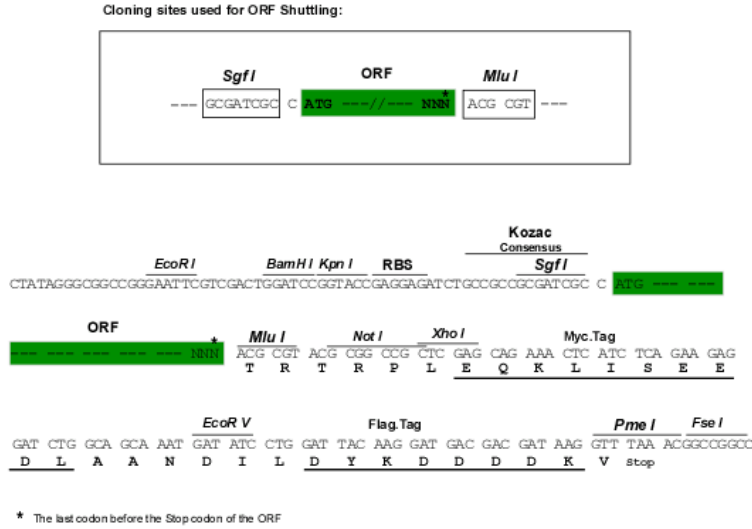
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 SWPHLQLVYEFFIRFLESQEFQPSIAKKYIDQKFVLQLELFDSEDPREPRDYKTVLHRIYKFLGLRAF  
 IRKQINNIFLRFVYETEHFNGVAELLEILGSIINGFALPLKAEHKQFLVKVLIPLHTVRSLSLPHAQLAY  
 CIVQFLEKDPSTLTPVIRGLMKFWPKTCSQKEVMFLGELEEILDVIEPSQFVKIQEPLFKQIAKCVSSPH  
 FQVAERALYYWNNEYIMSLIEENSNVILPIMFSSLYRISKEHWNPAIVALVYNNVLKAFMEMNSTMFDELTA  
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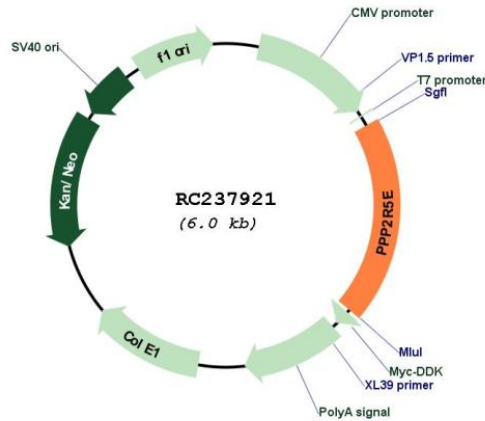
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001282182

<b>ORF Size:</b>	1173 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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_001282182.3</a>
<b>RefSeq Size:</b>	3445 bp
<b>RefSeq ORF:</b>	1176 bp
<b>Locus ID:</b>	5529
<b>UniProt ID:</b>	<a href="#">Q16537</a>
<b>Cytogenetics:</b>	14q23.2
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Protein Pathways:</b>	Oocyte meiosis, Wnt signaling pathway
<b>MW:</b>	46.6 kDa
<b>Gene Summary:</b>	The protein encoded by this gene belongs to the phosphatase 2A regulatory subunit B family. Protein phosphatase 2A is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The B regulatory subunit might modulate substrate selectivity and catalytic activity. This gene encodes an epsilon isoform of the regulatory subunit B56 subfamily. Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Aug 2013]