

Product datasheet for **RC237920**

PPP2R5E (NM_001282181) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PPP2R5E (NM_001282181) 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: >RC237920 representing NM_001282181
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGACACGCTATCTGATCTTAAAATGAAAGAATACAAGCGCTCCACTCTTAATGAAGTGGTGGACTACA
TTACAATAAGCAGAGGCTGTTTGACAGAGCAGACTTACCCTGAAGTAGTTAGAATGGTATCTTGCAATAT
ATTCAGAACTCTCCCTCCTAGTGACAGCAATGAATTTGATCCAGAAGAAGATGAACCTACCCTTGAGGCA
TCGTGGCCACACTTACAGCTTGTATATGAATTTTCATACGATTTTGGAAAGCCAAGAATTCACACCCA
GCATTGCCAAAAATATATAGATCAGAAATTTGTATTACAGCTTCTGGAGCTATTTGACAGCGAAGACCC
TCGGGAACGGGACTACTTAAAAACAGTCTTACACAGAATTTATGGCAAGTTTCTTGGTCTTAGAGCATT
ATCCGAAAACAGATTAACAATATTTTTCTAAGGTTTGTATGAAACAGAACACTTCAATGGTGTAGCTG
AACTGCTGGAAATATTAGGAAGTATTATCAATGGCTTTGCTTTACCTCTTAAGGCAGAACACAAACAGTT
TCTGGTAAAAGTATTGATCCCTTACACACTGTCAGGAGCTTATCACTCTCCATGCACAGCTGGCATA
TGTATAGTACAGTTTCTGGAGAAAAGATCCTTCACTCACAGAACCAGTTATTAGGGGGTTAATGAAATTT
GGCCTAAAACATGTAGTCAAAAAGAGGTCATGTTCTTGGGAACTGGAAGAAATATTGGATGTGATTGA
ACCTTCACAATTTGTTAAAATCCAAGAACCCTTTGTTTAAACAAATCGCCAAGTGTGTATCTAGCCCCAT
TTTCAGGTGGCAGAAAAGAGCACTCTATTATTGGAATAATGAATACATCATGAGTTTGATAGAAGAAAAT
CTAACGTCATCCTTCCCATCATGTTTTCCAGCCTTTATAGGATTTCAAAGAACATTGGAATCCGGCTAT
TGTGGCGTTGGTGTACAATGTGTTGAAGGCATTTATGGAATGAACAGCACCATGTTTGACGAGCTGACA
GCCACATAACAAGTCAGATCGTCAGCGTGAGAAAAAGAAAAGGAGCGTGAAGAATTGTGAAAAAAT
TGGAGGATCTGGAGTTAAAGAGAGGTCTTAGACGTGATGAATAATTCCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237920 representing NM_001282181
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MDT^LSDLKMK^{EY}KRSTLNELVDYITISRGLTEQTYPEVVRM^VSCNIFRTLPPSDSNEFDPEE^{DEPT}LEA
 SWPH^LQLVYEFFIRFLESQEFQPSIAKKYIDQKFVLQLELFDSEDP^{RR}RDYLKTVLHRIY^{GK}FLGLRAF
 IRKQINNIFLRFVYETE^{HF}NGVAELLEILGSIINGFALPLKAEHKQFLVKVLIPLHTV^{RS}LSLFHAQLAY
 CIVQFLEK^DPSLTEPVIRGLMKFWPKTCSQKEVMFLGELEEILDVIEPSQFVKIQEPLFKQIAKCVSSPH
 FQVAERALYYW^{NEY}IMSLIEENS^NVILPIMFSSLYRISKEHWNPAIVALVY^NNVLKAFMEMNSTMFDEL^T
 ATYKSDRQREKKKEKEREELWKKLEDLELKRGLRRDGI^IPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

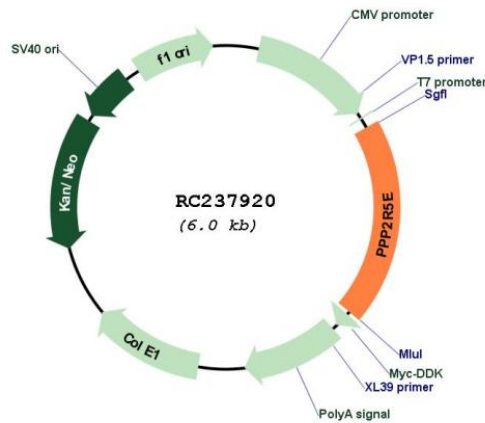
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282181

ORF Size:	1173 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:	<ol style="list-style-type: none">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_001282181.2
RefSeq Size:	3490 bp
RefSeq ORF:	1176 bp
Locus ID:	5529
UniProt ID:	Q16537
Cytogenetics:	14q23.2
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Oocyte meiosis, Wnt signaling pathway
MW:	46.6 kDa
Gene Summary:	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]