

Product datasheet for **RC238396**

PPP2R5E (NM_001282179) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R5E (NM_001282179) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP2R5E
Synonyms:	B56E; B56epsilon
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC238396 representing NM_001282179
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTCAGCACCAACTACTCCTCCATCAGTGGATAAAGTAGACGGATTTTCTCGGAAGTACGTCAGAA
 AAGCCAGACAGAAGAGGTCGCAAAGTTCCTCACAGTTTAGGTCTCAAGGCAAGCCTATTGAGTTAACACC
 TCTGCCGCTGCTAAAAGACGTTCCATCCTCAGAGCAGCCTGAACTGTTCCATAAAGAACTTCAGCAGTGC
 TGTGTCATTTTTGACTTCATGGACACGCTATCTGATCTTAAAAAGAAAGAATAACAAGCGCTCCACTCTTA
 ATGAACTGGTGGACTACATTACAATAAGCAGAGGCTGTTTACAGAGCAGACTTACCCTGAAGTAGTTAG
 AATGGTATCTTGAATATATTCAGAACTCTCCCTCCTAGTACAGCAATGAATTTGATCCAGAAGAAGAT
 GAACCTACCTTGAGGCATCGTGGCCACACTTACAGCTTGATATGAATTTTTTCATACGATTTTTGGAAA
 GCCAAGAATCCAACCCAGCATTGCCAAAAATATATAGATCAGAAATTTGTATTACAGCTTCTGGAGCT
 ATTTGACAGCGAAGACCCTCGGGAACGGGACTACTTAAAAACAGTCTTACACAGAATTTATGGCAAGTTT
 CTTGGTCTTAGAGCATTTATCCGAAAACAGATTACAATATTTTTCTAAGGTTTGTATTGAAACAGGAC
 ACTTCAATGGTGTAGCTGAACTGCTGGAATATTAGGAAGTATTCAATGGCTTTGCTTTACCTCTTAA
 GGCAGAACACAAACAGTTTCTGGTAAAAGTATTGATCCCTTTACACACTGTCCAGGAGCTTACACTCTTC
 CATGCACAGCTGGCATATTGTATAGTACAGTTTCTGGAGAAAGATCCCTTCACTCAGAACAGTTATTA
 GGGGGTTAATGAAATTTTGGCCTAAAACATGTAGTCAAAAAGAGGTATGTTCTTGGGGAAGTGGGAA
 AATATTGGATGTGATTGAACCTTCACAATTTGTTAAAACCAAGAACCTTTGTTTAAACAAATCGCCAAG
 TGTGTATCTAGCCCCATTTTTCAGGTGGCAGAAAGAGCACTCTATTATTGGAATAATGAATACATCATGA
 GTTTGATAGAAGAAAACCTAACGTCATCCTTCCATCATGTTTTCCAGCCTTTATAGGATTTCAAAAAG
 ACATTGGAATCCGGCTATTGTGGCGTTGGTGACAAATGTGTTGAAGGCATTTATGGAAATGAACAGCACC
 ATGTTTACAGAGCTGACAGCCACATACAAGTACAGTCGTGAGCGTGAGAAAAAGAAAAGGAGCGTG
 AAGAATTGTGAAAAAATTGGAGGATCTGGAGTTAAAGAGAGGTCTTAGACGTGATGGAATAATCCAAC
 T

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238396 representing NM_001282179
 Red=Cloning site Green=Tags(s)

MSSAPTPPSVDKVDGFSRKYVRKARQKRSQSSSQFRSQKPIELTPLLLKDVPSSEQPELFLKKLQQC
 CVIFDFMDLSDLKMKKEYKRSTLNELVDYITISRGCLTEQTYPEVVRMVCNIFRTLPPSDSNEFDPEED
 EPTLEASWPHLQLVYEFFIRFLESQEFQPSIAKKYIDQKFVLQLELFDSEDPREPRDYKTVLHRIYKGF
 LGLRAFIRKQINNIFLRFVYETGHFNVAELLEILGSIINGFALPLKAEHKQFLVKVLIPLHTVRSLSLF
 HAQLAYCIVQFLEKDPSLTPVIRGLMKFWPKTCSQKEVMFLGELEEILDVIEPSQFVKIQEPLFKQIAK
 CVSSPHFQVAERALYYWNNIYIMSLIEENSNVILPIMFSSLYRISKEHWNPAIVALVYVNLKAFMEMNST
 MFDELATYKSDRQREKKKEKEREELWKKLEDLELKRGLRRDGIPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8120_g12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001282179

ORF Size: 1401 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.

RefSeq: [NM_001282179.1](#), [NP_001269108.1](#)
RefSeq Size: 4120 bp

RefSeq ORF: 1404 bp

Locus ID: 5529

UniProt ID: [Q16537](#)
Cytogenetics: 14q23.2

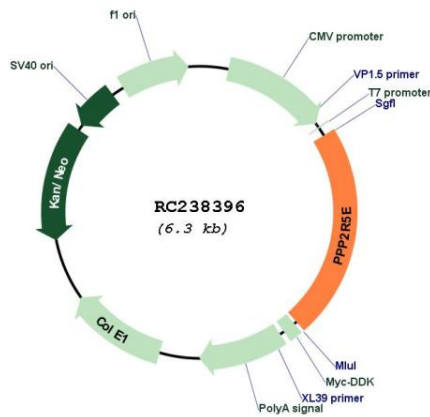
Protein Families: Druggable Genome, Phosphatase

Protein Pathways: Oocyte meiosis, Wnt signaling pathway

MW: 54.7 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]

Product images:



Circular map for RC238396