

## Product datasheet for **RC230138**

### PPP2R1B (NM\_001177563) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R1B (NM_001177563) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP2R1B
Synonyms:	PP2A-Abeta; PR65B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC230138 representing NM\_001177563  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGGCGCATCAGAGCTCGGGACCGCCAGGAGCAGCGGGTGGAGATGGAGATGATTTCGCTATACC  
 CGATCGCGGTTTTAATCGACGAGCTCCGCAATGAAGACGTGCAGCTCCGACTCAACAGTATTAAGAAGTT  
 ATCAACAATTGCCCTAGCACTTGGAGTAGAAAAGACCCGAAGTGAATTGTTGCCATTTCTTACAGATACA  
 ATTTATGATGAAGATGAGGTACTATTAGCTCTTGTGCTGAGCAGCTGGGAAATTTCACTGGCCTAGTGGGAG  
 GTCCTGACTTTGCCACTGTCTGCTGGATTCACTGCGCCTCCTTGTGTTGAAGCTTGTGTCAGTATTGC  
 CCAGTTATTGTCTCAGGATGACCTTGAGACTTTGGTGTGCTACACTTCGACAAGCAGCAGAAGATAAA  
 TCTTGGCGCGTTCGCTATATGGTGGCTGACAGATTTTCAGAGCTCCAGAAAGCCATGGGCTCTAAAATCA  
 CCCTAAATGACCTCATCCCCGCTTTCAGAACCTACTTAAAGACTGTGAAGCTGAAGTCCGGGCAGCTGC  
 TGCCACAAAAGTAAAAGAACTTGGTGAAGACTTGGCCATTGAAGATAGAGAGACCATAATTATGAATCAA  
 ATTCTGCCTTATAAAGGAATTAGTATCCGATACCAATCAACATGTCAAATCGGCTCTAGCTTCTGTAA  
 TTATGGGATTGTCTACTATTTTGGGCAAAGAAAATACCATTGAACATCTTCTACCTTTTCTTAGCTCA  
 GTTAAAGGATGAGTGTCTGACGTTTCGTTTGAATATCATCTCCAATTTGGATTGTGTAATGAAGTGATT  
 GGAATCCGTCAGCTCTCTCAGTCTCCTTCTGCCATAGTGGAGCTGGCAGAAGATGCCAAATGGAGGG  
 TCCGCCTGGCCATCATTGAGTATATGCCCTGCTGGCAGGCCAGCTGGGTGTGGAATTTCTTGTGAAAA  
 GCTGAATCTTTATGATGGCTTGGCTCGTGGACCATGTATACGCCATCCGAGAAGCTGCCACCAACAAC  
 CTCATGAACTAGTTCAGAAGTTTGGTACAGAGTGGGCCAAAAACTATTGTTCCCAAAGTGTTAGTAA  
 TGGCAAATGATCCTAATTACTTGCATAGAATGACCACTTATTTCGATTAATGCATGCTGAGGCCTG  
 TGGTCAGGAAATAACTACTAAGCAAATGCTGCCATCGTATTAATAAATGGCAGGAGACCAAGTAGCAAAT  
 GTTCGCTTCAATGTGCCAAATCTCTACAAAAGATTGGACCAATTCTAGATACCAATGCTTTACAGGGAG  
 AAGTGAAGCCAGTACTACAGAAGTTAGGTCAAGATGAAGACATGGATGTCAAATACTTTGCACAGGAAGC  
 TATAAGTGTCTTGCATTGGCA

**ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>RC230138 representing NM\_001177563  
 Red=Cloning site Green=Tags(s)

MAGASELGTGPGAAGGDGDDSLYPIAVLIDELRNEDVQLRLNSIKKLSTIALALGVERTRESELLPFLTDT  
 IYDEDEVLLALAEQLGNFTGLVGGPDFAHCLLDSVRLLAVEACVSIQLLSQDDLETLVMPTRLRQAEDK  
 SWRVRYMVADRFSELQKAMGPKITLNDLIPAFQNLKDCAEVRAAAAHKVKELGENLPIDRETIIMNQ  
 ILPYIKELVSDTNQHVKSALASVIMGLSTILGKENTIEHLLPLFLAQLKDECPDVRLNIIISNLDCVNEVI  
 GIRQLSQSLLPAIVELAEDAKWRVRLAIIIEYMPLLAGQLGVEFFDEKLNSLCMAWLVDHVYAIREAATNN  
 LMKLVQKFGTEWAQNTIVPKVLMANDPNYLHRMTTLFCINALSEACGQEITTKQMLPIVLKMGADQVAN  
 VRFNVAKSLQKIGPILDTNALQGEVKPVLQKLGQDEDMVKYFAQEASVLLALA

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8062\\_c01.zip](https://cdn.origene.com/chromatograms/mk8062_c01.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001177563

**ORF Size:** 1422 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\\_001177563.2](#)

**RefSeq ORF:** 1425 bp

**Locus ID:** 5519

**UniProt ID:** [P30154](#)

**Cytogenetics:** 11q23.1

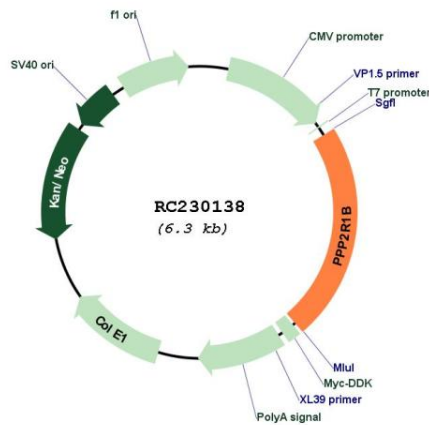
**Protein Families:** Druggable Genome, Phosphatase, Transcription Factors

**Protein Pathways:** Long-term depression, Oocyte meiosis, TGF-beta signaling pathway, Tight junction, Wnt signaling pathway

**MW:** 52.7 kDa

**Gene Summary:** This gene encodes a constant regulatory subunit of protein phosphatase 2. Protein phosphatase 2 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 constant regulatory subunit A serves as a scaffolding molecule to coordinate the assembly of the catalytic subunit and a variable regulatory B subunit. This gene encodes a beta isoform of the constant regulatory subunit A. Mutations in this gene have been associated with some lung and colon cancers. Alternatively spliced transcript variants have been described. [provided by RefSeq, Apr 2010]

**Product images:**



Circular map for RC230138