

## Product datasheet for **RC215798**

### PPP2R3A (NM\_181897) Human Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                        |
| Product Name:             | PPP2R3A (NM_181897) 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)                       |



[View online »](#)

**ORF Nucleotide Sequence:**

>RC215798 representing NM\_181897  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATGATCAAGGAAACATCTCTACGAAGGACCCGGATTTAAGGGGAGAGCTAGCTTTCCTGGCAAGGG  
 GCTGTGATTTTGTCTCCCTTACCGTTTAAGAAGCGGCTGAAGTCATTTAGCAGACACAGATTCAAAA  
 TAAACCAGAAAAGAAACCTGGAACACCACTCCACCTCCAGCCACCTCTCCAAGTAGTCCCCGACCTCTC  
 TCCCCGGTTCCCATGTGAATAATGTTGTGAATGCGCCATTGTCCATAAACATTCCACGGTTCTACTTTC  
 CTGAAGGACTCCAGATACCTGTAGTAATCATGAACAACTCTAAGCAGAATTGAAACTGCTTTCATGGA  
 TATTGAAGAACAGAAAGCAGACATTTATGAAATGGGAAAATTGCAAAGGTCTGTGGCTGTCTCTCTAT  
 TGGAAAGCCCCATGTTCAAGGCTGCAGGGGAGAGAAGACAGGATTTGTGACAGCACAGTCATTCATTG  
 CCATGTGGAGAAAGTTGCTGAATAACCATCATGATGATGCCTCTAAATTCATCTGTCTTCTAGCAAAGCC  
 CAACTGCAGCTCTCTAGAACAGGAGGATTTTCATCCCTCTACTTCAGGATGTGGTGGATACCCACCCTGGT  
 CTCACGTTCTGAAAGATGCTCCAGAATCCACTCCCGCTACATCACCACGGTATTTCAGAGAATATTCT  
 ACACAGTCAACAGATCTTGGAGTGGAAAAATTACTTCGACAGAGATAAGAAAAAGCAACTTTTTGCAAAAC  
 CCTAGCACTTTTGGAGAAGAGGAAGATATAAACCAAAATTACAGATTACTTCTCCTATGAACATTTCTAT  
 GTTATTTATTGTAATTTGGAAGTAGATACTGATCACGACCTCTACATCAGCCAGGCCGATCTGTCTC  
 GATACAATGACCAGGCTTCATCAAGCAGGATTATTGAAAGGATATTCTCTGGTGCAGTAAACAAGGGGAAA  
 AACAAACAGAAAAGAGGGAAGAATGAGCTATGCAGATTTTGTGGTTTTGATCTCTGAAGAAGACAAA  
 AGGAATCTACCAGCATTGAGTATTGGTCCGCTGCATGGATGGATGGAGACGGTGTACTCTCCATGT  
 ATGAGCTGGAGTACTTCTATGAGGAGCAGTGTGAACGGATGGAAGCCATGGGAATTGACCCCTTGCCATT  
 CCATGATTTACTGTGCCAGATGCTTGACCTAGTGAAGCCAGCTGTTGATGGCAAAAATAACTCTAAGAGAT  
 CTGAAGAGGTGCAGAATGGCTCACATCTTCTATGACACTTTCTTAACTGGAGAATACTTAGACCATG  
 AACAGAGAGATCCCTTTGCGGTCCAGAAGGATGTTGAGAACGATGGGCCTGAGCCCTCAGACTGGGACCG  
 GTTTGCCGCTGAGGAGTATGAGACGCTTGTGAGAGGAATCTGCCCAAGCACAATTCCAGGAAGGCTTT  
 GAAGATTATGAAACAGATGAACCTGCCTCTCCCTCTGAATTTGAAACAAAAGCAATAAAATATTAAGTG  
 CAAGCCTCCAGAGAAATGTGGAAGCTTCAATCAGTGGATGAAGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC215798 representing NM\_181897  
 Red=Cloning site Green=Tags(s)

MMIKETSLRRDPDLRGLAFLARGCDFVLPFRFKRKLKSFQQTQIQNKPEKPGTPLPPPATSPSSPRPL  
 SPVPHVNNVVNAPLSINIPRFYFPEGLPDTCSNHEQTLRSIETAFMDIEEQADIYEMGKIAKVCGCPLY  
 WKAPMFRAAGGEKTGFVTAQSFIAMWRKLLNNHHDDASKFICLLAKPNCSSLEQEDFIPLLDVVDTHPG  
 LTFKDAPEFHSRYITTVIQRIFYTVNRSWSGKITSTEIRKSNFLQTLALLEEEDINQITDYFSYEHFY  
 VIYCKFWELDTDHDLYISQADLSRYNDQASSSRIIERIFSGAVTRGKTIQKEGRMSYADFVWFLISEEDK  
 RNPTSIEYWFRCMDVDGDGVLSMYELEYFEEQCERMEAMGIEPLPFHDLLCQMLDLVKPAVDGKITLRD  
 LKRCRMAHIFYDTFFNLEKYLDEQRDPFAVQKDVENDGPEPSDWRFAAEEYETLVAEESAQAQFQEGF  
 EDYETDEPASPSEFGNKNKILSASLPEKCGKLQSVDEE

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6494\\_h06.zip](https://cdn.origene.com/chromatograms/mk6494_h06.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_181897

**ORF Size:** 1587 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\\_181897.3](#)

**RefSeq Size:** 4664 bp

**RefSeq ORF:** 1590 bp

**Locus ID:** 5523

**UniProt ID:** [Q06190](#)

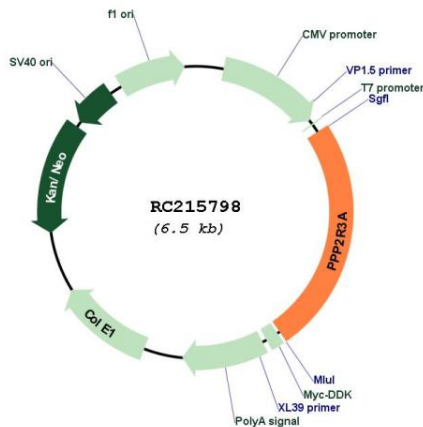
**Cytogenetics:** 3q22.2-q22.3

**Protein Families:** Druggable Genome, Phosphatase

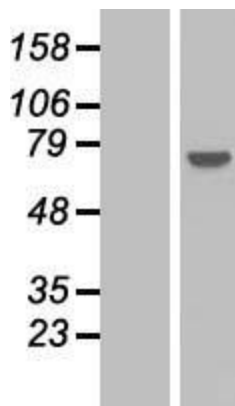
**MW:** 60.9 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for RC215798



Western blot validation of overexpression lysate (Cat# [LY405582]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215798 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).