

## Product datasheet for **RC234912**

### PTPDC1 (NM\_001253829) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PTPDC1 (NM_001253829) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTPDC1
Synonyms:	PTP9Q22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC234912 representing NM\_001253829  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCAGGTGCAGGATGCAACCAGGCGGCCCTCAGCCGTGCGCTTCTCAGCTCCTTTCTCCAGGGCCGCC  
 GGCACTCCACCTCAGACCCAGTACTGCGGCTGCAGCAGGCCCGCGGGGCTCTGGCTTGGCTCCGGCTC  
 TGCCACGAAGCTGCTGTCTCGTCTCTCAGGTGATGGTGGCTGTTTCTCAGTCAGCCATGCAGAG  
 GAAACCCAACCTTCCCGAAAAGAAAAAGTAAAGGAAATTTAGAACGTCCAACACCAAAGTACACAAAAG  
 TAGGGGAGCGTTTACGGCATGTCACTTCTGGACACATGGCATGTTCCATGGCGTGTGGCGGTAGAGCTTG  
 CAAGTATGAGAACCAGCCCGCTGGAGTGAGCAGGAGCAAGCCATTAAGGGGTTTACTCATCTGGGTC  
 ACTGATAATACTGGCCATGGCCCGCCATCTCTGAGCTCCTGGAGAAGTACCACATCATTGATCAGT  
 TCCTCAGCCATGGCATAAAAAACAATAATCAACCTCCAGCGCCCTGGTGGAGTGTAGCTGTGGAAACCC  
 TCTGGAACAAGAAAGTGGCTTACATACCTTCTGAGGCTTTCATGGAGGCTGGCATTACTTCTACAAT  
 TTCGGATGGAAGGATTATGGTGTAGCGTCTTACTACTATCCTAGATATGGTGAAGGTGATGACATTTG  
 CCTTACAGGAAGGAAAAGTAGCTATCCATTGTCATGCAGGGCTTGGTCAACAGGTGTTTTAATAGCCTG  
 TTACTTAGTTTTGCAACGAGAATGACTGCTGACCAAGCAATTATATTTGTGCGGGCAAAGCGACCCAAT  
 TCCATACAAACCAGAGGACAGCTCCTCTGTGTAAGGGAATTTACTCAGTTTCTAACTCCTCTCCGCAATA  
 TATTCTCTTGCTGTGATCCCAAAGCACATGCTGTACCTTACCTCAATATCTAATTCGCCAGCGTCATCT  
 GCTTCAATGTTATGAGGCAGACTTCTGAAACAGTGCCAAAAATATCCACCTAGTTTGCAAATGCTG  
 CTGGACTTAGCGGAGAACAGGCCAGTGTGATGAAGGATGTGTCCGAAGGACCTGGTCTCTCTGTGAAA  
 TAGAAAAGACAATGTCTGAGATGGTCACCATGCAGCTGGATAAAGAGTTACTGAGGCATGACAGTGTG  
 GTCCAACCCGCCTAACCCCACTGCAGTGGCAGCAGATTTGACAATCGAGGCATGATTTTCTCCAATGAG  
 CAACAGTTTGACCCTCTTTGAAAAGGCGGAATGTTGAGTGCCTTCAACCCCTGACTCATCTGAAAAGGC  
 GGCTCAGTACAGTGACTCAGATTTAAAGAGGGCCGAGAACCCTCCTGGAGCAAGGGGAGACTCCACAGAC  
 AGTGCCTGCCAGATCTTGGTTGGCCACAAGCCAGGCAGCAGAAAGCTCATAAGCCATTGTTACATCCCA  
 CAGTCTCCAGAACCAGACTTACACAAGGAAGCCTTGGTTCGCAGCACACTTTCTTCTGGAGTCACTCAA  
 AGTTTGGAGGCCGGAAGGACTCAAAGATAATGGGTACCAATTTTCCATGGAAGGATCATTCCAAAGGA  
 AGCACAGCAGAGTGGAGCTTCTCTGCAGATGTTTCAAGGCTCACACAGCCCTGGGAGCCAGTTTCAACC  
 AGCTTTGCAAATGTCATAAGGATCCAAACCCTGCTCACCAGCAAGTGTCTCACTGTGAGTGTAAAACCTC  
 ATGGTGTGGGAGCCCTGGCTCTGTGAGCAGAACAGCAGGACACCCCGAAGCCCTCTGGACTGTGGCTC  
 CAGTCCCAAAGCACAGTCTTGGTTGAACATGAAACCCAGGACAGTAAAGATCTGTCTGAAGCAGCTTCA  
 CACTCTGCATTACAGTCTGAATTGAGTGTGAGGCAAGAAGAATACTGGCGGCCAAAGCCCTAGCAAATT  
 TAAATGAATCTGTAGAAAAGGAGGAACTAAAAAGGAAGGTAGAAATGTGGCAGAAAAGAGCTTAATCCCG  
 AGATGGAGCTTGGGAAAAGATAATGTGGCAGAGGGACCCCTTTCATCCTATGCAGCTTGTGTTGGTCTTGG  
 GTGGAGCAACTGAAGGAGCCTGTAATCACCAAAGAGGATGTGGACATGTTGGTTGACAGGCGAGCAGATG  
 CCGCAGAAGCACTTTTTTTATTAGAGAAGGACAGCACCAGACTATTCTCTGCGTGTGCACTGCATAGT  
 GAACCTGCAGACAATCCCGTGGATGTGGAGGAAGCTTTCCTTGGCCATGCCATTAAGGCATTCACTAAG  
 GTTAATTTTGATTCTGAAAATGGACCAACAGTTTACAACACCCTGAAGAAAATATTTAAGCACACGCTGG  
 AAGAAAAAAGAAAATGACAAAAGATGGCCCTAAGCCTGGCCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234912 representing NM\_001253829  
 Red=Cloning site Green=Tags(s)

MQVQDATRRPSAVRFLSSFLQGRRHSTSDPVLRLQQARRGSGLGSGSATKLLSSSSLQVMVAVSSVSHAE  
 GNPTFFPERKSKGNLERPTPKYTKVGERLRHVIPGHMACSMACGGACKYENPARWSEQEAIKGVYSSWV  
 TDNILAMARPSSELLEKYHIIDQFLSHGIKTIINLQRPGEHASCNPLEQESGFTYLPEAFMEAGIYFYN  
 FGWKDYGVASLTTILDMVKVMTFALQEGKVAIHCHAGLGRTGVLACYLVFATRMTADQAIIFVRAKRPN  
 SIQTRGQLLCVREFTQFLTPLRNIFSCCDPKAHAVTLPQYLIRQRHLLHGYEARLLKHVPKIIHLVCKLL  
 LDLAENRPVMMKDVSEGPLSAEIEKTMSEMTMQLDKELLRHDSVSNPPNPTAVAADFNRGMIFSNE  
 QQFDPLWKRRNVECLQPLTHLKRRLSYSDSLKRAENLLEQGETPQTVPAQILVGHKPRQKLI SHCYIP  
 QSPEPDLHKEALVRSTLSFWSQSKFGGLEGLKDNQSPIFHGRIIPKEAQQSGAFSADVSGSHSPGEPVSP  
 SFANVHKDPNPAHQVSHCQCKTHGVGSPGSRVQNSRTPRSPLDCGSSPKAQFLVEHETQDSKDLSEAAS  
 HSALQSELSAEARRILAAKALANL NESVEKEELKRKVMWQKELNSRDGAWERICGERDPFILCSLMWSW  
 VEQLKEPVITKEDVDMLVDRRADA AEALFLEKQHQHTILCVLHCIVNLQTIPVDVEEAF LAHAIAKFTK  
 VNFDSENGPTVYNTLKKIFKHTLEEKRMKTDGPKPGL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001253829

ORF Size: 2424 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\\_001253829.2](#)

**RefSeq Size:** 4451 bp

**RefSeq ORF:** 2427 bp

**Locus ID:** 138639

**UniProt ID:** [A2A3K4](#)

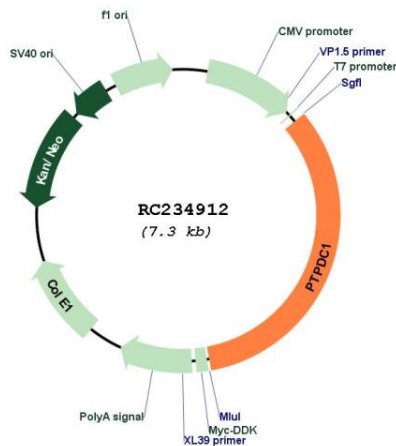
**Cytogenetics:** 9q22.32

**Protein Families:** Druggable Genome, Phosphatase

**MW:** 90.7 kDa

**Gene Summary:** The protein encoded by this gene contains a characteristic motif of protein tyrosine phosphatases (PTPs). PTPs regulate activities of phosphoproteins through dephosphorylation. They are signaling molecules involved in the regulation of a wide variety of biological processes. The specific function of this protein has not yet been determined. Alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC234912