

Product datasheet for **RC234825**

PTPDC1 (NM_001253830) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPDC1 (NM_001253830) 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:

>RC234825 representing NM_001253830
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCAGGAGTCTTGCCTCAGAATGAACAACCATATTCTACCTTGGTGAATAACAGCGAGTGTGTTG
 CAAACATGAAAGGAAATTTAGAACGTCCAACCAAAAGTACACAAAAGTAGGGGAGCGTTTACGGCATGT
 CATTCTGGACACATGGCATGTTCCATGGCGTGTGGCGGTAGAGCTTGCAAGTATGAGAACCAGCCCGC
 TGGAGTGAGCAGGAGCAAGCCATTAAGGGGTTTACTCATCTGGGTCACTGATAATATACTGGCCATGG
 CCCGCCATCCTCTGAGCTCCTGGAGAAGTACCACATCATTGATCAGTTCCTCAGCCATGGCATAAAAC
 AATAATCAACCTCCAGCGCCCTGGTGGAGCATGCTAGCTGTGGAAACCCTTGGAACAAGAAAGTGGCTTC
 ACATACCTTCTGAGGCTTTCATGGAGGCTGGCATTACTTCTACAATTCGGATGGAAGGATTATGGTG
 TAGCGTCTTACTACTATCCTAGATATGGTGAAGGTGATGACATTTGCCTTACAGGAAGGAAAAGTAGC
 TATCCATTGTCATGCAGGCTTGGTGAACAGGTGTTTTAATAGCCTGTTACTTAGTTTTGCAACGAGA
 ATGACTGCTGACCAAGCAATTATATTTGTGCGGGCAAAGCGACCAATCCATACAAACCAGAGGACAGC
 TCCTCTGTGTAAGGGAATTTACTCAGTTTCTAACTCCTCTCCGCAATATATTCTTGTGTGATCCCAA
 AGCACATGCTGTACCTTACCTCAATATCTAATTCGCCAGCGTACTGTGTTTATGGTTATGAGGCACGA
 CTTCTGAAACACGTGCCAAAAATATCCACCTAGTTTGCAAAATGCTGCTGGACTTAGCGGAGAACAGGC
 CAGTGATGATGAAGGATGTGCCAAGGACCTGGTCTCTCTGCTGAAATAGAAAAGACAATGTCTGAGAT
 GGTCCACATGCAGCTGGATAAAGAGTACTGAGGCATGACAGTGTGTCCAACCCGCCTAACCCCACT
 GCAGTGGCAGCAGATTTTGACAATCGAGGCATGATTTTCTCCAATGAGCAACAGTTTGACCCTCTTTGGA
 AAAGGCGGAATGTTGAGTGCCTTCAACCCCTGACTCATCTGAAAAGGCGGCTCAGCTACAGTGACTCAGA
 TTTAAAGAGGGCCGAGAACCTCCTGGAGCAAGGGGAGACTCCACAGACAGTGCCTGCCCAGATCTTGTT
 GGCCACAAGCCCAGGCAGCAGAAGCTCATAAGCCATTGTTACATCCCACAGTCTCCAGAACCAGACTTAC
 ACAAGGAAGCCTTGGTTCGCAGCACACTTTCTTTCTGGAGTCAGTCAAAGTTTGGAGGCCTGGAAGGACT
 CAAAGATAATGGGTACCAATTTTCCATGGAAGGATCATTCCAAAGGAAGCACAGCAGAGTGGAGCTTTC
 TCTGCAGATGTTTCAGGCTCACACAGCCCTGGGGAGCCAGTTTCAACCAGCTTTGCAAATGTCCATAAGG
 ATCCAAACCTGCTCACCAGCAAGTGTCTCACTGTGAGTGTAAAACCTCATGGTGTGGGAGCCCTGGCTC
 TGTGAGCAGAACAGCAGGACACCCGAAGCCCTCTGGACTGTGGCTCCAGTCCCAAAGCACAGTTCCTG
 GTTGAACATGAAACCCAGGACAGTAAAGATCTGTCTGAAGCAGCTTCACTCTGCATTACAGTCTGAAT
 TGAGTGTGAGGCAAGAAGAATACTGGCGCCAAAGCCCTAGCAAATTTAAATGAATCTGTAGAAAAGGA
 GGAATAAAAAGGAAGAAAGAGCTTAATCCCGAGATGGAGCTTGGGAAAAGAAATATGTGGCGAGAGGGAC
 CCTTTCATCCTATGCAGCTTGTGTGGTCTTGGGTGGAGCAACTGAAGGAGCCTGTAATACCAAAGAGG
 ATGTGGACATGTTGGTTGACAGGCGAGCAGATGCCGAGAAAGCACTTTTTTTATTAGAGAAGGGACAGCA
 CCAGACTATTCTCTGCGTGTGCACTGCATAGTGAACCTGCAGACAATCCCGTGGATGTGGAGGAAGCT
 TTCCTTGGCCATGCCATTAAGGCATTACTAAGGTTAATTTTATTCTGAAAATGGACCAACAGTTTACA
 ACACCTGAAGAAAATATTTAAGCACACGCTGGAAGAAAAAGAAAAATGACAAAAGATGGCCCTAAGCC
 TGGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234825 representing NM_001253830
 Red=Cloning site Green=Tags(s)

MAAGVLPQNEQPYSTLVNNSSECVANMKGNLERPTPKYTKVGERLRHVIPGHMACSMACGGCRACKYENPAR
 WSEQEQAIKGVYSSWVTDNILAMARPSSELLEKYHIIDQFLSHGIKTIINLQRPGEHASCGNPLEQESGF
 TYLPEAFMEAGIYFYNFGWKDYGVASLTTILDMVKVMTFALQEGKVAIHCHAGLGRGTGLIACYLVFATR
 MTADQAIIFVRAKRPNSIQTRGQLLCVREFTQFLTPLRNIFSCCDPKAHAVTLPQYLIRQRHLLHGYEAR
 LLKHVPKIIHLVCKLLDLAENRPVMMKDVSEGPLSAEIEKTMSEMTMQLDKELLRHDSVSNPPNPT
 AVAADFDNRGMIFSNEQQFDPLWKRNRNVECLQPLTHLKRRLSYSDSLKRAENLLEQGETPQTPVAQILV
 GHKPRQQLISHCYIPQSPEPDHKEALVRSTLSFWSQSKFGGLEGLKDNQSPIFHGRIIPKEAQQSGAF
 SADVSGSHSPGEPVSPSFANVHKDPNPAHQVSHQCCKTHGVGSPGSRVQNSRTPRSPDCGSSPKAQFL
 VEHETQDSKDLSEAASHALQSEL SAEARRILAAKALANLNEVEKEELKRKKELNSRDGAWERICGERD
 PFILCSLMWSWVEQLKEPVITKEDVDMLVDRRADAAEALFLEKGGHQTILCVLHCIVNLQTIIPVDVEEA
 FLAHAIAKFTKVNFDSENGPTVYNTLKKIFKHTLEEKRKMTKDGPKPGL

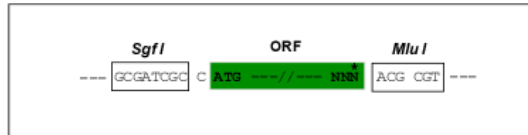
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001253830

ORF Size: 2247 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_001253830.2](#)

RefSeq Size: 4497 bp

RefSeq ORF: 2250 bp

Locus ID: 138639

UniProt ID: [A2A3K4](#)

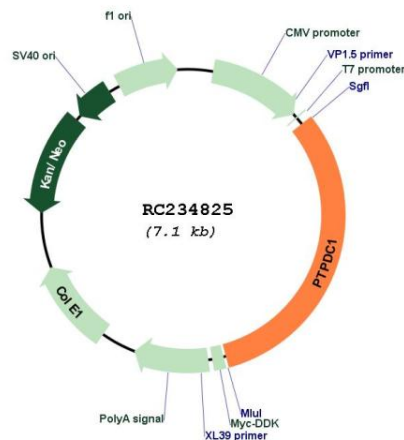
Cytogenetics: 9q22.32

Protein Families: Druggable Genome, Phosphatase

MW: 84.2 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 RC234825