

## Product datasheet for **RG234825**

### PTPDC1 (NM\_001253830) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PTPDC1 (NM_001253830) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTPDC1
Synonyms:	PTP9Q22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG234825 representing NM\_001253830  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCTGCAGGAGTCTTGCCTCAGAATGAACAACCATATTCTACCTTGGTGAATAACAGCGAGTGTGTTG  
 CAAACATGAAAGGAAATTTAGAACGTCCAACACCAAAGTACACAAAAGTAGGGGAGCGTTTACGGCATGT  
 CATTCTGGACACATGGCATGTTCCATGGCGTGTGGCGGTAGAGCTTGCAAGTATGAGAACCAGCCCGC  
 TGGAGTGAGCAGGAGCAAGCCATTAAGGGGTTTACTCATCTGGGTCACTGATAATATACTGGCCATGG  
 CCCGCCATCCTCTGAGCTCCTGGAGAAGTACCACATCATTGATCAGTTCCTCAGCCATGGCATAAAAAAC  
 AATAATCAACCTCCAGCGCCCTGGTGGAGCATGCTAGCTGTGGAAACCCTCTGGAACAAGAAAAGTGGCTTC  
 ACATACCTTCTGAGGCTTTCATGGAGGCTGGCATTACTTCTACAATTCGGATGGAAGGATTATGGTG  
 TAGCGTCTTTACTACTATCCTAGATATGGTGAAGGTGATGACATTTGCCTTACAGGAAGGAAAAGTAGC  
 TATCCATTGTCATGCAGGCTTGGTGAACAGGTGTTTTAATAGCCTGTTACTTAGTTTTGCAACGAGA  
 ATGACTGCTGACCAAGCAATTATATTTGTGCGGGCAAAGCGACCAATTCATACAAACCAGAGGACAGC  
 TCCTCTGTGTAAGGGAATTTACTCAGTTTCTAACTCCTCTCCGCAATATATTCTTGTGTGATCCCAA  
 AGCACATGCTGTACCTTACCTCAATATCTAATTCGCCAGCGTCACTGCTTTCATGGTTATGAGGCACGA  
 CTTCTGAAACACGTGCCAAAAATATCCACCTAGTTTGCAAAATGCTGCTGGACTTAGCGGAGAACAGGC  
 CAGTGATGATGAAGGATGTGCCAAGGACCTGGTCTCTCTGCTGAAATAGAAAAGACAATGTCTGAGAT  
 GGTCCACATGCAGCTGGATAAAGAGTTACTGAGGCATGACAGTGTGTCCAACCCGCCTAACCCCACT  
 GCAGTGGCAGCAGATTTTGACAATCGAGGCATGATTTTCTCCAATGAGCAACAGTTTGACCCTCTTTGGA  
 AAAGGCGGAATGTTGAGTGCCTTCAACCCCTGACTCATCTGAAAAGGCGGCTCAGCTACAGTGACTCAGA  
 TTTAAAGAGGGCCGAGAACCCTCTGGAGCAAGGGGAGACTCCACAGACAGTGCCTGCCAGATCTTGTT  
 GGCCACAAGCCCAGGCAGCAGAAGCTCATAAGCCATTGTTACATCCCACAGTCTCCAGAACCAGACTTAC  
 ACAAGGAAGCCTTGTTTCGCAGCACACTTTCTTTCTGGAGTCAGTCAAAGTTTGGAGGCCTGGAAGGACT  
 CAAAGATAATGGGTCACCAATTTTCCATGGAAGGATCATTCCAAAGGAAGCACAGCAGAGTGGAGCTTTC  
 TCTGCAGATGTTTCAGGCTCACACAGCCCTGGGGAGCCAGTTTCAACCAGCTTTGCAATGTCCATAAGG  
 ATCCAAACCCTGCTCACCAGCAAGTGTCTCACTGTGAGTGTAAAACCTCATGGTGTGGGAGCCCTGGCTC  
 TGTCAGGCAGAACAGCAGGACACCCGAAGCCCTCTGGACTGTGGCTCCAGTCCCAAAGCACAGTTCCTG  
 GTTGAACATGAAACCCAGGACAGTAAAGATCTGTCTGAAGCAGCTTCACTCTGCATTACAGTCTGAAT  
 TGAGTGTGAGGCAAGAAGAATACTGGCGCCAAAGCCCTAGCAAATTTAAATGAATCTGTAGAAAAGGA  
 GGAATAAAAAGGAAGAAAGAGCTTAATCCCGAGATGGAGCTTGGGAAAAGAAATGTGGCGAGAGGGAC  
 CCTTTCATCCTATGCAGCTTGTGTGGTCTTGGGTGGAGCAACTGAAGGAGCCTGTAATACCAAAGAGG  
 ATGTGGACATGTTGGTTGACAGGCGAGCAGATGCCGAGAAAGCACTTTTTTTATTAGAGAAGGGACAGCA  
 CCAGACTATTCTCTGCGTGTGCACTGCATAGTGAACCTGCAGACAATCCCGTGGATGTGGAGGAAGCT  
 TTCCTTGGCCATGCCATTAAGGCATTCATAAGGTTAATTTTATTCTGAAAATGGACCAACAGTTTACA  
 ACACCTGAAGAAAATATTTAAGCACACGCTGGAAGAAAAAGAAAAATGACAAAAGATGGCCCTAAGCC  
 TGGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG234825 representing NM\_001253830  
 Red=Cloning site Green=Tags(s)

MAAGVLPQNEQPYSTLVNNSECVANMKGNLERPTPKYTKVGERLRHVIPGHMACSMACGGRACKYENPAR  
 WSEQEQAIKGVYSSWVTDNILAMARPSSELLEKYHIIDQFLSHGIKTIINLQRPGEHASCNPLEQESGF  
 TYLPEAFMEAGIYFYNFGWKDYGVASLTTILDMVKVMTFALQEGKVAIHCHAGLGRTPVLIACYLVFATR  
 MTADQAIIFVRAKRPNSIQTRGQLLCVREFTQFLTPLRNIFSCCDPKAHAVTLPQYLIRQRHLLHGVEAR  
 LLKHVPKIIHLVCKLLLDLAENRPVMMKDVSEGPGLSAEIEKTMSEMTMQLDKELLRHDSVSNPPNPT  
 AVAADFDNRGMIFSNEQQFDPLWKRNRNVECLQPLTHLKRRLSYSDSDLKRAENLLEQGETPQTPVAQILV  
 GHKPRQKQLISHCYIPQSPEPDLHKEALVRSTLSFWSQSKFGGLEGLKDNQSPIFHGRIIPKEAQQSGAF  
 SADVSGSHSPGEPVSPSFANVHKDPNPAHQVSHQCCKTHGVGSPGSRVQNSRTPRSPDCGSSPKAQFL  
 VEHETQDSKDLSEAASHALQSEL SAEARRILA AKALANL NESVEKEELKRKKELNSRDGAWERICGERD  
 PFILCSLMWSWVEQLKEPVITKEDVDMLVDRRADAAEALFLEKGGQHTILCVLHCIVNLQTIIPVDVEEA  
 FLAHAIAKFTKVNFDSENGPTVYNTLKKIFKHTLEEKRMKTDGPKPGL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

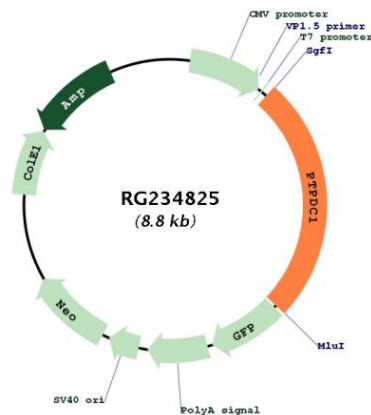
**UniProt ID:** [A2A3K4](#)

**Cytogenetics:** 9q22.32

**Protein Families:** Druggable Genome, Phosphatase

**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 RG234825