

Product datasheet for **RG208971**

PTPDC1 (NM_177995) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPDC1 (NM_177995) 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:

>RG208971 representing NM_177995
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGCAGGAGTCTTGCCTCAGAATGAACAACCATATTCTACCTTGGTGAATAACAGCGAGTGTGTTG
 CAAACATGAAAGGAAATTTAGAACGTCCAACACCAAAGTACACAAAAGTAGGGGAGCGTTTACGGCATGT
 CATTCTGGACACATGGCATGTTCCATGGCGTGTGGCGGTAGAGCTTGCAAGTATGAGAACCAGCCCGC
 TGGAGTGAGCAGGAGCAAGCCATTAAGGGGTTTACTCATCTGGGTCACTGATAATATACTGGCCATGG
 CCCGCCATCCTCTGAGCTCCTGGAGAAGTACCACATCATTGATCAGTTCCTCAGCCATGGCATAAAAAAC
 AATAATCAACCTCCAGCGCCCTGGTGGAGCATGCTAGCTGTGGAAACCCTCTGGAACAAGAAAGTGGCTTC
 ACATACCTTCTGAGGCTTTCATGGAGGCTGGCATTACTTCTACAATTCGGATGGAAGGATTATGGTG
 TAGCGTCTTACTACTATCCTAGATATGGTGAAGGTGATGACATTTGCCTTACAGGAAGGAAAAGTAGC
 TATCCATTGTGCAGGGCTTGGTGAACAGGTGTTTTAATAGCCTGTTACTTAGTTTTGCAACGAGA
 ATGACTGCTGACCAAGCAATTATATTTGTGCGGGCAAAGCGACCAATTCATACAAACCAGAGGACAGC
 TCCTCTGTGTAAGGGAATTTACTCAGTTTCTAACTCCTCTCCGCAATATATTCTTGTGTGATCCCAA
 AGCACATGCTGTACCTTACCTCAATATCTAATTCGCCAGCGTACTGCTTTCATGGTTATGAGGCACGA
 CTTCTGAAACACGTGCCAAAAATATCCACCTAGTTTGCAAAATGCTGCTGGACTTAGCGGAGAACAGGC
 CAGTGATGATGAAGGATGTGCCAAGGACCTGGTCTCTCTGCTGAAATAGAAAAGACAATGTCTGAGAT
 GGTCCACATGCAGCTGGATAAAGAGTACTGAGGCATGACAGTGATTTTTCCAACCCGCCTAACCCCACT
 GCAGTGGCAGCAGATTTTGACAATCGAGGCATGATTTTCTCCAATGAGCAACAGTTTGACCCTCTTTGGA
 AAAGCGGAATGTTGAGTGCCTTCAACCCCTGACTCATCTGAAAAGGCGGCTCAGCTACAGTGACTCAGA
 TTTAAAGAGGGCCGAGAACCTCCTGGAGCAAGGGGAGACTCCACAGACAGTGCCTGCCAGATCTTGTT
 GGCCACAAGCCCAGGCAGCAGAAGCTCATAAGCCATTGTTACATCCCACAGTCTCCAGAACCAGACTTAC
 ACAAGGAAGCCTTGTTTCGCAGCACACTTTCTTTCTGGAGTCAGTCAAAGTTTGGAGGCCTGGAAGGACT
 CAAAGATAATGGGTCACCAATTTTCCATGGAAGGATCATTCCAAAGGAAGCACAGCAGAGTGGAGCTTTC
 TCTGCAGATGTTTCAGGCTCACACAGCCCTGGGGAGCCAGTTTCAACCAGCTTTGCAATGTCCATAAGG
 ATCCAAACCTGCTCACCAGCAAGTGTCTCACTGTGAGTGTAAAACCTCATGGTGTGGGAGCCCTGGCTC
 TGTCAGGCAGAACAGCAGGACACCCGAAGCCCTCTGGACTGTGGCTCCAGTCCCAAAGCACAGTTCCTG
 GTTGAACATGAAACCCAGGACAGTAAAGATCTGTCTGAAGCAGCTTCACTCTGCATTACAGTCTGAAT
 TGAGTGTGAGGCAAGAAGAATACTGGCGCCAAAGCCCTAGCAAATTTAAATGAATCTGTAGAAAAGGA
 GGAATAAAAAGGAAGGTAGAAATGTGGCAGAAAAGAGCTTAATCCCGAGATGGAGCTTGGGAAAGAATA
 TGTGGCGAGAGGGACCCTTTCATCCTATGCAGCTTGTGTTGGTCTTGGGTGGAGCAACTGAAGGAGCCTG
 TAATACCAAAGAGGATGTGGACATGTTGGTTGACAGGCGAGCAGATGCCGACAGAAGCACTTTTTTTATT
 AGAGAAGGGACAGCACCAGACTATTCTGCGTGTGCACTGCATAGTGAACCTGCAGACAATCCCGTG
 GATGTGGAGGAAGCTTTCCTTGCCCATGCCATTAAGGCATTCCTAAGGTTAATTTTATTCTGAAAATG
 GACCAACAGTTTACAACCCCTGAAGAAAATTTAAGCACACGCTGGAAGAAAAAAGAAAAATGACAAA
 AGATGGCCCTAAGCCTGGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208971 representing NM_177995
 Red=Cloning site Green=Tags(s)

MAAGVLPQNEQPYSTLVNNSECVANMKGNLERPTPKYTKVGERLRHVIPGHMACSMACGGRACKYENPAR
 WSEQEQAIKGVYSSWVTDNILAMARPSSELLEKYHIIDQFLSHGIKTIINLQRPGEHASCNPLEQESGF
 TYLPEAFMEAGIYFYNFGWKDYGVASLTTILDMVKVMTFALQEGKVAIHCHAGLGRTPVLIACYLVFATR
 MTADQAIIFVRAKRPNSIQTRGQLLCVREFTQFLTPLRNIFSCCDPKAHAVTLPQYLIRQRHLLHGYEAR
 LLKHVPKIIHLVCKLLLDLAENRPVMMKDVSEGPGLSAEIEKTMSEMTMQLDKELLRHDSDFSNNPNT
 AVAADFDNRGMIFSNEQQFDPLWKRNRNVECLQPLTHLKRRLSYSDSLKRAENLLEQGETPQTPVAQILV
 GHKPRQKQLISHCYIPQSPEPDLHKEALVRSTLSFWSQSKFGGLEGLKDNQSPIFHGRIIPKEAQQSGAF
 SADVSGSHSPGEPVSPSFANVHKDPNPAHQVSHCQCKTHGVGSPGSRVQNSRTPRSPDCGSSPKAQFL
 VEHETQDSKDLSEAASHALQSEL SAEARRILA AKALANL NESVEKEELKRK VEMMQKELNSRDGAWERI
 CGERDPFILCSLMWSWEQLKEPVITKEDVDMLVDRRADA AEALF LLEKGGHQTILCVLHCIVNLQTI PV
 DVEEAFLAHAIAKAF TKVNF DSENGPTVYNTLKKIFKHTLEEKRM TKDGP KPGL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177995

ORF Size: 2262 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_177995.1](#), [NP_818931.1](#)

RefSeq Size: 4515 bp

RefSeq ORF: 2265 bp

Locus ID: 138639

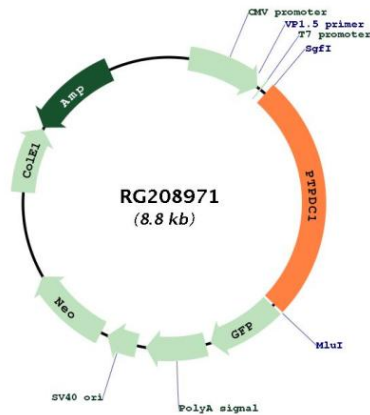
UniProt ID: [A2A3K4](#)

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 RG208971