

## Product datasheet for **RG222339**

### PTPDC1 (NM\_152422) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PTPDC1 (NM_152422) 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:

>RG222339 representing NM\_152422  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGCAGGTGCAGGATGCAACCAGGCGGCCCTCAGCCGTGCGCTTCTCAGCTCCTTTCTCCAGGGCCGCC  
GGCACTCCACCTCAGACCCAGTACTGCGGCTGCAGCAGGCCCGCGGGGCTCTGGCTTGGGCTCCGGCTC  
TGCCACGAAGCTGCTGTCTCGTCTCTCAGGTGATGGTGGCTGTTTCTCAGTCAGCCATGCAGAG  
GGAAACCAACTTTCCCGAAAAGAAAAGAAATTTAGAACGTCCAACACCAAAGTACACAAAAGTAGGGG  
AGCGTTTACGGCATGTCATTCTGGACACATGGCATGTTCCATGGCGTGTGGCGGTAGAGCTTCAAGTA  
TGAGAACCAGCCCGCTGGAGTGAGCAGGAGCAAGCCATTAAGGGGGTTACTCATCTGGGTCACTGAT  
AATATACTGGCCATGGCCCGCCATCTCTGAGCTCTGGAGAAGTACCACATCATTGATCAGTTCTCTCA  
GCCATGGCATAAAAAAATAATCAACCTCCAGCGCCCTGGTGGCATGCTAGCTGTGGGAACCTCTGGA  
ACAAGAAAGTGGCTTACATACCTCTCTGAGGCTTTCATGGAGGCTGGCATTACTTCTACAATTTGGA  
TGGAAGGATTATGGTGTAGCGTCTTACTACTATCCTAGATATGGTGAAGGTGATGACATTTGCCCTTAC  
AGGAAGGAAAAGTAGCTATCCATTGTCATGCAGGGCTTGGTGAACAGGTGTTTTAATAGCTGTTACTT  
AGTTTTTGCAACGAGAATGACTGCTGACCAAGCAATTATTTGTGCGGGCAAAGCGACCAATTCATA  
CAAACCAGAGGACAGCTCCTCTGTGAAGGAAATTTACTCAGTTTCTAATCCTCTCCGCAATATATTCT  
CTTGCTGTGATCCCAAAGCACATGCTGTACCTTACCTCAATATCTAATTCGCCAGCGTCATCTGCTTCA  
TGGTTATGAGGCACGACTTCTGAAACACGTGCCAAAAATATCCACCTAGTTTGCAAATGCTGTGGAC  
TTAGCGGAGAACAGGCCAGTGATGAAGGATGTGTCGAAGGACCTGGTCTCTCTGCTGAAATAGAAA  
AGCAATGTCTGAGATGGTACCATGCAGCTGGATAAAGAGTTACTGAGGCATGACAGTGATGTGTCCAA  
CCGCCTAACCCACTGCAGTGGCAGCAGATTTTGACAATCGAGGCATGATTTTCTCCAATGAGCAACAG  
TTTGACCTCTTTGGAAAAGCGGAATGTTGAGTGCCTTCAACCCTGACTCATCTGAAAAGCGGCTCA  
GCTACAGTGACTCAGATTTAAGAGGGCCGAGAACCTCCTGGAGCAAGGGGAGACTCCACAGACAGTGCC  
TGCCAGATCTTGGTTGGCCACAAGCCAGGCAGCAGAAGCTCATAAGCCATTGTACATCCACAGTCT  
CCAGAACCAGACTTACACAAGGAAGCCTTGGTTCGCAGCACACTTTCTTCTGGAGTCAGTCAAAGTTG  
GAGGCCTGGAAGGACTCAAAGATAATGGGTCACCAATTTCCATGGAAGGATCATTCAAAGGAAGCACA  
GCAGAGTGGAGCTTCTCTGCAGATGTTTCAGGCTCACACAGCCCTGGGAGCCAGTTTCAACCAGCTT  
GCAAAATGCCATAAAGATCCAAACCCTGCTCACCAGCAAGTGTCTCACTGTCAGTGTAAACTCATGGT  
TTGGGAGCCCTGGCTCTGTGAGCAGAACAGCAGGACACCCCGAAGCCCTCTGGACTGTGGCTCCAGTCC  
CAAAGCACAGTCTTGGTTGAACATGAAACCCAGGACAGTAAAGATCTGTCTGAAGCAGCTTCACTCT  
GCATTACAGTCTGAATTGAGTGTGAGGCAAGAAGAATACTGGCGGCCAAAGCCCTAGCAAAATTTAATG  
AATCTGTAGAAAAGGAGGAATAAAAAGGAAGGTAGAAATGTGGCAGAAAAGAGCTTAATTCAGAGATGG  
AGCTTGGGAAAGAATATGTGGCGAGAGGACCCCTTTCATCCTATGCAGCTTGTGTTGTTGACAGGCGAGCAGATGCCGAG  
CAACTGAAGGAGCCTGTAATCACCAGAGGATGTGGACATGTTGGTTGACAGGCGAGCAGATGCCGAG  
AAGCACTTTTTTATTAGAGAAGGACAGCACCAGACTATTCTCTGCGTGTGCACTGCATAGTGAACCT  
GCAGACAATCCCGTGGATGTGGAGGAAGCTTTCCTTGGCCATGCCATTAAGGCATTCACCTAAGGTTAAT  
TTTGATTCTGAAAATGGACCAACAGTTTACAACCCCTGAAGAAAATATTTAAGCACACGCTGGAAGAAA  
AAAGAAAATGACAAAAGATGGCCCTAAGCCTGGCCTC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG222339 representing NM\_152422  
 Red=Cloning site Green=Tags(s)

MQVQDATRRPSAVRFLSSFLQGRRHSTSDPVLRLQQARRGSGLGSGSATKLLSSSSLQVMVAVSSVSHAE  
 GNPTFFPERKRNLERPTPKYTKVGERLRHVIPGHMACSMACGGRACKYENPARWSEQEQAIKGVYSSWVTD  
 NILAMARPSSELLEKYHIIDQFLSHGIKTIINLQRPGEHASCNPLEQESGFTYLPEAFMEAGIYFYNFG  
 WKDYGVASLTTIILDMVKVMTFALQEGKVAIHCHAGLGRGTVLIACYLVFATRMTADQAIIFVRAKRPNSI  
 QTRGQLLCVREFQFLTPLRNIFSCCDPKAHAVTLPQYLIRQRHLLHGYEARLLKHVPKI IHLVCKLLLD  
 LAENRPVMMKDVSEGPGLSAEIEKTMSEMVTMQLDKELLRHSDVSNPPNPTAVAADFNRGMIFSNEQQ  
 FDPLWKRRNVECLQPLTHLKRRLSYSDSDLKRAENLLEQGETPQTVPAQILVGHKPRQQLISHCYIPQS  
 PEPDLHKEALVRSTLSFWSQSKFGGLEGLKDNQSPIFHGRIIPKEAQQSGAFSADVSGSHSPGEPVSPSF  
 ANVHKDPNPAHQVSHCQCKTHGVGSPGVRQNSRTPRSPLDCGSSPKAQFLVEHETQDSKDLSEAASHS  
 ALQSELSAEARRILAAKALANL NESVEKEELKRKVEMWQKELNSRDGAWERICGERDPFILCSLMWSWVE  
 QLKEPVITKEDVDMLVDRRADAEEALFLEKQHQITILCVLHCIVNLQTIIPVDVEEAFLAHAIAKAFTKVN  
 FDSENGPTVYNTLKKIFKHTLEEKRMKTDGPKPGL

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_152422

ORF Size: 2418 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\\_152422.4](#)

**RefSeq Size:** 4398 bp

**RefSeq ORF:** 2421 bp

**Locus ID:** 138639

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

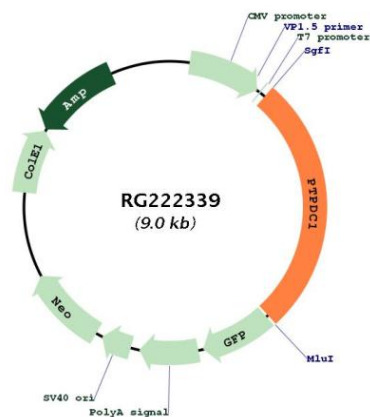
**Cytogenetics:** 9q22.32

**Domains:** Y\_phosphatase, DSPc, PTPc\_motif

**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 RG222339