

Product datasheet for **RG234912**

PTPDC1 (NM_001253829) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPDC1 (NM_001253829) 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:

>RG234912 representing NM_001253829
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGGTGCAGGATGCAACCAGGCGGCCCTCAGCCGTGCGCTTCTCAGCTCCTTTCTCCAGGGCCGCC
 GGCACTCCACCTCAGACCCAGTACTGCGGCTGCAGCAGGCCCGCGGGCTCTGGCTTGGCTCCGGCTC
 TGCCACGAAGCTGCTGTCTCGTCTCTCAGGTGATGGTGGCTGTTTCTCAGTCAGCCATGCAGAG
 GAAACCAACTTTCCCGAAAAGAAAAGTAAAGGAAATTTAGAACGTCCAACACCAAAGTACACAAAAG
 TAGGGGAGCGTTTACGGCATGTCTTCTGGACACATGGCATGTTCCATGGCGTGTGGCGGTAGAGCTTG
 CAAGTATGAGAACCAGCCCGCTGGAGTGAGCAGGAGCAAGCCATTAAGGGGTTTACTCATCTGGGTC
 ACTGATAATACTGGCCATGGCCCGCCATCTCTGAGCTCCTGGAGAAGTACCACATCATTGATCAGT
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 GTTAATTTTGATTCTGAAAATGGACCAACAGTTTACAACACCCTGAAGAAAATATTTAAGCACACGCTGG
 AAGAAAAAAGAAAATGACAAAAGATGGCCCTAAGCCTGGCCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234912 representing NM_001253829
 Red=Cloning site Green=Tags(s)

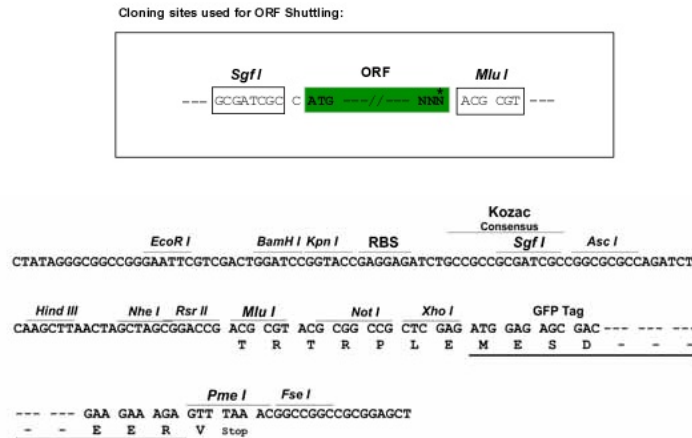
MQVQDATRRPSAVRFLSSFLQRRHSTSDPVLRLQQARRGSGLGSGSATKLLSSSSLQVMVAVSSVSHAE
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 TDNILAMARPSSELLEKYHIIDQFLSHGIKTIINLQRPGEHASCNPLEQESGFTYLPEAFMEAGIYFYN
 FGWKDYGVASLTTILDMVKVMTFALQEGKVAIHCHAGLGRTGVLACYLVFATRMTADQAIIFVRAKRPN
 SIQTRGQLLCVREFTQFLTPLRNIFSCCDPKAHAVTLPQYLIRQRHLLHGYEARLLKHVPKIIHLVCKLL
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 QQFDPLWKRRNVECLQPLTHLKRRLSYSDSLKRAENLLEQGETPQTVPAQILVGHKPRQKLI SHCYIP
 QSPEPDLHKEALVRSTLSFWSQSKFGGLEGLKDNQSPIFHGRIIPKEAQQSGAFSADVSGSHSPGEPVSP
 SFANVHKDPNPAHQVSHCQCKTHGVGSPGSRVQRNSRTPRSPLDCGSSPKAQFLVEHETQDSKDLSEAAS
 HSALQSELSAEARRILAAKALANL NESVEKEELKRKVMWQKELNSRDGAWERICGERDPFILCSLMWSW
 VEQLKEPVITKEDVDMLVDRRADA AEALFLEKGGHQHTILCVLHCIVNLQTIIPVDVEEAFLAHAIAKFTK
 VNFDSENGPTVYNTLKKIFKHTLEEKRMKTDGPKPGL

TRTRPLE - GFP Tag - V

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

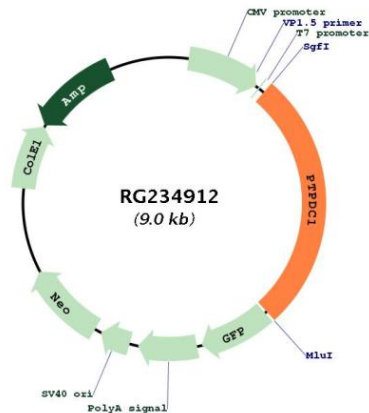
UniProt ID: [A2A3K4](#)

Cytogenetics: 9q22.32

Protein Families: Druggable Genome, Phosphatase

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 RG234912