

Product datasheet for **MG210441**

Ptpdc1 (NM_207232) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpdc1 (NM_207232) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ptpdc1
Synonyms:	AI843923; AW456874; Naa-1; Ptpcd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210441 representing NM_207232
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCGAGGAGTCTTGCCACAGAATGAAGATCCATATTCACGTTGGTGAATAGCAGTGGGCATGCTG
 CACACATGGATGAAAATTCAGGACGCCAGCACAAAATACACGAAAGTGGGAGAACGTTTGCGGCATGT
 CATCCCTGGGCACATGGCATGTTCCATGGCGTGTGGTGGGAGAGCGTGAAGTATGAGAACCAGCCCGC
 TGGAGTGAGCAGGAGCAAGCCATTAAGGGAGTATACTCATCCTGGGTCACTGACAATATCCTGGCCATGG
 CTCGTCGGTCTCCGAGCTGCTGGAGAAGTATCGCATCATCGAGCAGTTCCTCGGTCAAGGCATAAAAAAC
 AATAATCAACCTGCAGCGCCCTGGAGAGCATGCCAGCTGTGGAGCGCTCTGGAACAAGAAAGTGGTTTC
 ACCTACCTTCTGAGGCATTCATGGAGGCTGGCATTATTTCTACAACCTTGGGTGGAAGGATTATGGCG
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 TGTCCTACTGCCAGCGGGCTCGGCCGCACAGGTGTGCTAATAGCATGTTATTTAGTTTTTGAACAAGA
 ATGACTGCTGACCAAGCAATTATATTTGTTGCGGGCAAAACGCCCAATCCATACAAACAAGAGGACAAC
 TGCTCTGTGTACGGGAATTCACGCAGTTCCTGGCTCCACTCCGTAATATTTTCTTGTGTGACCCCAA
 AGCACATGCTGTTACCTTAGCCAGTACCTGATTCGCCAGCGACATCTGCTTCATGGCTACGAGGACCGA
 CTTCTGAAGTACGTGCCGAAGATCATCCACCTGGTTTGCAAACCTGCTGCTTGACTTGGCTGAGAACC
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 GCAGAGGTGGCCGAGTTCGAGAATCAGGATGTGATTCTCTACTGAGCAGGAGTTTGACCCCTCTGGA
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 TCTGTGGGTGTTTCTTGTTCACACAATCCTGGAGAGCCAGTGCCGCCAACTTCACAAGTATCCATAAGG
 ATCCAGAGCAGGTCACCCATTGCCGGTGTGAGGCTCCTGGTGGCTGGTCCCGGGCCCTGTTACAGAGAT
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 GAAAGTGGAGATGTGGCAGAAAGAACTAAATCCCGGGAGGAAGCCTGGGAACGAATATGCGCGCAGAGA
 GACCCCTTTCATCTGTGCAGTTTGTGTTGTTGGGTTGAGCAACTGAAAGAGCCTGTAATCACCAAAG
 AGGATGTGGACATGCTGGTGCAGACAGAAGCAGATGCTGCCGAAGCCCTGTTTTACTAGAGAAGGGGCA
 GTACCAGACCATCCTCTGTGTGCTGCACTGCATAGTGAGCCTGCAGACGCTTCCCATGGAGGTGGAGGAA
 GCTTGCCTTTTACATGCCATTAAGCTTACCAAGGTTAATTTTGTGAAACGGACCAATAGTTT
 ACGACACCTTGAAAAAATATTTAAGCACACGTTGGAAGAAAAGGAAAAATGGCAAAAGACAGCCTCTC
 C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210441 representing NM_207232
Red=Cloning site Green=Tags(s)

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MAAGVLPQNEPYSTLVNSSGHAHMDENSGRPAPKYTKVGERLRHVIPGHMACSMACGGRACKYENPAR
WSEQEQAIKGVYSSWVTDNILAMARPSSELLEKYRIIEQFLGQGIKTIINLQRPGEHASCBSALEQESGF
TYLPEAFMEAGIYFYNFGWKDYGVASLTAILDMVKVMTFALQEGKVAVHCHAGLGRGTGLIACYLVFATR
MTADQAIIFVRAKRPNSIQTRGQLLCVREFTQFLAPLRNIFSCCDPKAHAVTLAQYLIRQRHLLHGYEAR
LLKYVPKIIHLVCKLLDLAENRPVVMKSMLEGPVLSAEIEKTVSEMVTLLDQELLRQNSDVPDPFNPT
AEVAEFENQDVIILSTEQEFDPLWKRRIECLQPLTHLKRQLSYSDSLKRAKAILAQGETPWTVPAQELL
DHSLQHQPSTSHCYMPPTPELGFNKEALVQNTFSFWTPSKCGGLEGLKDEGSLLLCRKDIPKEVQRSRTF
SVGVSCSHNPGEVPPNFTSIHKDPEQVTHCRCEAPGGWVPGPVHEMVRSPCSPLNCGSSPKAQFPHGQE
TQDSTDLSEAVPHAGLQPELSAEARRILAAKALANLNEFVEKEEVKRKVENMWQKELNSREEAWERICGER
DPFILCSLMWSWVEQLKEPVITKEDVDMLVDRQADAAEALFLLEKGOYQITLQVLCIVSLQTLPMVEVEE
ACLLHAIKAFTKVNFDSENGPIVYDTLKKIFKHTLEEKRMKAKDSLS
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_207232

ORF Size: 4426 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_207232.2](#), [NP_997115.1](#)

RefSeq Size: 4329 bp

RefSeq ORF: 2244 bp

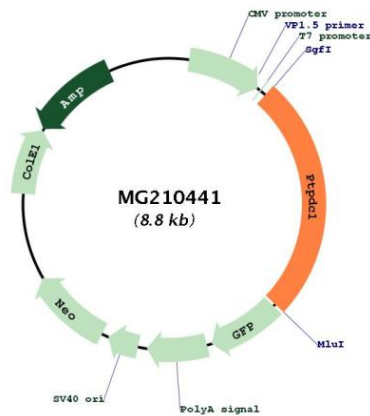
Locus ID: 218232

UniProt ID: [Q6NZK8](#)

Cytogenetics: 13 A5

Gene Summary: The protein encoded by this gene is a centrosomal mitotic phosphatase. This protein has been implicated in centrosomal duplication and cytokinesis. In addition, knockdown of expression levels in non-cycling cells results in extra long cilia, suggesting that this protein may function in regulating cilia length independent of a function in cell cycle control. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2014]

Product images:



Circular map for MG210441