

Product datasheet for **MR210441**

Ptpdc1 (NM_207232) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpdc1 (NM_207232) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptpdc1
Synonyms:	A1843923; AW456874; Naa-1; Ptpcd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210441 representing NM_207232
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGCAGGAGTCTTGCCACAGAATGAAGATCCATATTCACGTTGGTGAATAGCAGTGGGCATGCTG
 CACACATGGATGAAAATTCAGGACGCCAGCACAAAATACACGAAAGTGGGAGAACGTTTGCGGCATGT
 CATCCCTGGGCACATGGCATGTTCCATGGCGTGTGGTGGGAGAGCGTGAAGTATGAGAACCAGCCCGC
 TGGAGTGAGCAGGAGCAAGCCATTAAGGGAGTATACTCATCTGGGTCACTGACAATATCTGGCCATGG
 CTCGTCCGTCCTCCGAGCTGCTGGAGAAGTATCGCATCATCGAGCAGTTCCTCGGTCAAGGCATAAAAAAC
 AATAATCAACCTGCAGCGCCCTGGAGAGCATGCCAGCTGTGGAGCGCTCTGGAACAAGAAAGTGGTTTC
 ACCTACCTTCTGAGGCATTCATGGAGGCTGGCATTATTTCTACAACCTTGGGTGGAAGGATTATGGCG
 TGGCTTCCCTCACTGCCATCTTGGACATGGTAAAGGTGATGACATTTGCCTTACAGGAAGGGAAAGTGGC
 TGTCCTACTGCCAGCGGGCTCGGCCGCACAGGTGTGCTAATAGCATGTTATTTAGTTTTTGAACAAGA
 ATGACTGCTGACCAAGCAATTATATTTGTTGCGGGCAAAACGCCCAATCCATACAAACAAGAGGACAAC
 TGCTCTGTGTACGGGAATTCACGCAGTTCCTGGCTCCACTCCGTAATATTTTCTTGTGTGACCCCAA
 AGCACATGCTGTTACCTTAGCCAGTACCTGATTCGCCAGCGACATCTGCTTCATGGCTACGAGGCACGA
 CTTCTGAAGTACGTGCCGAAGATCATCCACCTGGTTTGCAAACCTGCTGCTTGACTTGGCTGAGAACC
 CGCAGTGGTGTGAAGAGCATGCTAGAAGGACCTGTGCTCTCTGCTGAAATCGAAAAGACCGTGTCTGAGAT
 GGTCACGCTGCAGCTAGATCAAGAGTACTCAGGCAAAACAGTGTGTCGCCCACCCGTTAACCCCACT
 GCAGAGGTGGCCGAGTTCGAGAATCAGGATGTGATTCTCTACTGAGCAGGAGTTTGACCCCTCTGGA
 AGAGGAGGGATATTGAGTGCCTTCAGCCCTGACACATCTGAAAAGACAGCTCAGCTACAGCGACTCAGA
 CTTAAAGAGGGCCAAAGCCATCCTGGAACAAGGGGAGACACCTTGACAGTGCCTGCCAGGAGTTGCTA
 GACCACAGTCTCCAGCATCAGAAGCCACGAGCCATTGCTACATGCCACCAACTCCAGAGCTGGGTTTTA
 ATAAGGAGGCACTGGTCCAAAATACCTTTTCTTCTGGACTCCGTCAAAGTGTGGAGGCTTAGAAGGACT
 GAAGGATGAGGGATCGCTGCTTTTGTGCAGGAAGGACATTCAAAAGGAAGTACAGCGGAGCAGAACCTTC
 TCTGTGGGTGTTTCTTGTTCACACAATCCTGGAGAGCCAGTGCCGCCAACTTCACAAGTATCCATAAGG
 ATCCAGAGCAGGTCACCCATTGCCGGTGTGAGGCTCCTGGTGGCTGGTCCCGGGCCCTGTTACGAGAT
 GGTGAGGAGCCCTGTAGCCCTCTGAACCTGTGGCTCCAGTCTAAGGCGCAGTTCACACAGGACAGGAA
 ACCCAAGACAGCACAGACCTGTCTGAGGCAGTGCCGCATGCTGGTCTGCAGCCTGAACCTGAGTGTGAAG
 CAAGGAGAATACTGGCGGCCAAAGCCCTGGCAAACCTAAATGAGTTTGTGAAAAGGAGGAAGTGAAGAAG
 GAAAGTGGAGATGTGGCAGAAAGAACTAAATCCCGGGAGGAAGCCTGGGAACGAATATGCGCGCAGAGA
 GACCCCTTCATCTGTGCAGTTTGTGTTGTTGGGTTGAGCAACTGAAAGAGCCTGTAATCACCAAAG
 AGGATGTGGACATGCTGGTGCAGACAGACAAGCAGATGCTGCCGAAGCCCTGTTTTACTAGAGAAGGGGCA
 GTACCAGACCATCCTCTGTGTGCTGCACTGCATAGTGAGCCTGCAGACGCTTCCCATGGAGGTGGAGGAA
 GCTTGCCTTTTACATGCCATTAAGCTTACCAAGGTTAATTTTGTATTCTGAAAACGGACCAATAGTTT
 ACGACACCTTGAAAAAATATTTAAGCACACGTTGGAAGAAAAGGAAAAATGGCAAAAGACAGCCTCTC
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210441 representing NM_207232
Red=Cloning site Green=Tags(s)

MAAGVLPQNEPYSTLVNSSGHAHMDENSGRPAPKYTKVGERLRHVIPGHMACSMACGGRACKYENPAR
 WSEQEQAIKGVYSSWVTDNILAMARPSSELLEKYRIIEQFLGQGIKTIINLQRPGEHASCBSALEQESGF
 TYLPEAFMEAGIYFYNFGWKDYGVASLTAILDMVKVMTFALQEGKVAVHCHAGLGRGVL IACYL VFATR
 MTADQAIIFVRAKRPNSIQTRGQLLCVREFTQFLAPLRNIFSCCDPKAHAVTLAQYLIRQRHLLHGYEAR
 LLKYVPKIIHLVCKLLDLAENRPVVMKSMLEGPVL SAEIEKTVSEMVTLQLDQELLRQNSDVPDPFNPT
 AEVAEFENQDVILSTEQEFDPLWKRRDIECLQPLTHLKRQLSYSDSLKRAKAIIEQGETPWTVPAQELL
 DHSLQHQPSTSHCYMPPTPELGFNKEALVQNTFSFWTPSKCGGLEGLKDEGSLLLCRKDIPKEVQRSRTF
 SVGVSCSHNPGEVPPNFTSIHKDPEQVTHCRCEAPGGWVPGPVHEMVRSPCSPLNCGSSPKAQFPHGQE
 TQDSTDLSEAVPHAGLQPEL SAEARRILAAKALANLNEFVEKEEVKRKVMWQKELNSREEAWERICGER
 DPFILCSLMWSWVEQLKEPVITKEDVDMLVDRQADAAEALFLLEKGOYQITL CVLHCIVSLQTLPMVEVEE
 ACLLHAIKAFTKVNFDSENGPIVYDTLKKIFKHTLEEKRMKADSL S

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9048_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_207232

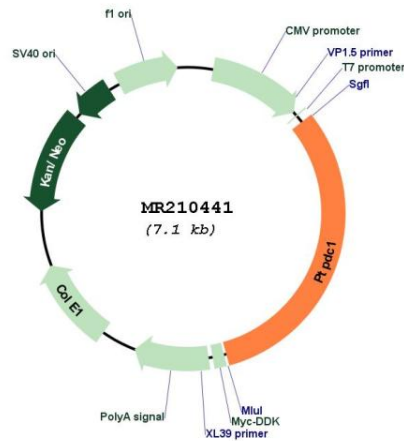
ORF Size: 2241 bp

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:** 4429 bp
- RefSeq ORF:** 2244 bp
- Locus ID:** 218232
- UniProt ID:** [Q6NZK8](#)
- Cytogenetics:** 13 A5
- MW:** 84.4 kDa
- 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 MR210441