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Product datasheet for MR231190

Ptpdc1 (NM_001301781) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpdc1 (NM_001301781) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptpdc1
Synonyms:	AI843923; AW456874; Naa-1; Ptpcd1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>MR231190 representing NM_001301781
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGCAGGAGTCTTGCCACAGAATGAAGATCCATATTCCACGTTGGTGAATAGCAGTGGGCATGCTG
CACACATGGATGGTGAGGAGAAAATGCTTATCTTGAGACATCTTACGGACCCAGTCTGGATGTGGAGCCG
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ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231190 representing NM_001301781
Red=Cloning site Green=Tags(s)

MAAGVLPQNEDPYSTLVNSSGHAAHMDGEEKMLILRHLTDPVWMWSRVFCRLELAEPLRESILLVTASAM
LKLRFLTRLSSGLSCCILENSGRPAPKYTKVGERLRHVIPGHMACSMACGGRACKYENPARWSEQEQAIK
GVYSSWVTDNILAMARPSSELLEKYRIIEQFLGQGIKTIINLQRPGEHASCGSALEQESGFTYLPEAFME
AGIYFYNFGWKDYGVASLTAILDMVKVMTFALQEGKVAVHCHAGLGRTGVLIACYLVFATRMTADQAIIF
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HLVCKLLLDLAENRPVVMKSMLEGPVLSAEIEKTVSEMVTLQLDQELLRQNSDVPDPFNPTAEVAEFENQ
DVILSTEQEFDPLWKRRDIECLQPLTHLKRQLSYSDSDLKRAKAILEQGETPWTVPAQELLDHSLQHQKP
TSHCYMPPTPELGFNKEALVQNTFSFWTPSKCGGLEGLKDEGSLLLCRKDIPKEVQRSRTFSVGVSCSHN
PGEPVPPNFTSIHKDPEQVTHCRCEAPGGWVPGPVHEMVRSPCSPLNCGSSPKAQFPHGQETQDSTDLSE
AVPHAGLQPELSAEARRILAAKALANLNEFVEKEEVKRKVEMWQKELNSREEAWERICGERDPFILCSLM
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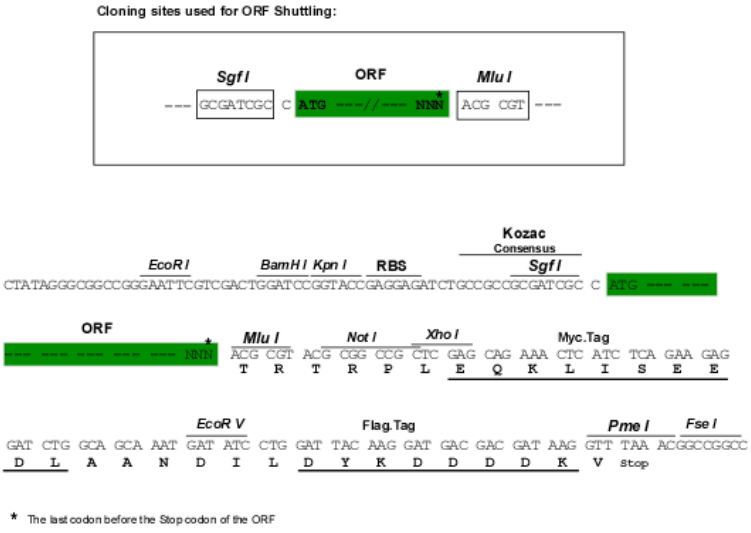
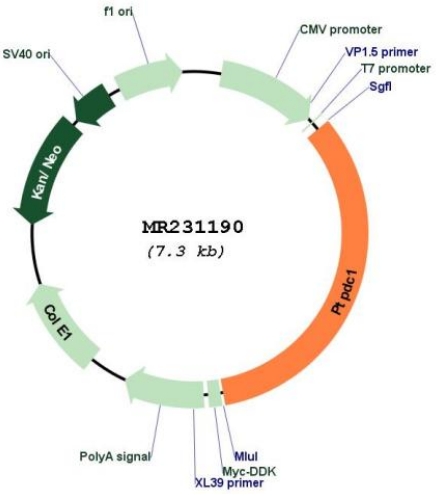
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001301781
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_001301781.1, NP_001288710.1
RefSeq Size:	4612 bp
RefSeq ORF:	2427 bp
Locus ID:	218232
UniProt ID:	Q6NZK8
Cytogenetics:	13 A5

MW: 91.4 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]