

## Product datasheet for MR204196

### Pdcl (NM\_026176) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pdcl (NM_026176) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdcl
Synonyms:	1200011E13Rik; AW108059; PhLP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204196 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAACCCCTGGATGATAAGTTACTGGGGGAGAAATTACAGTACTACTACAGCACCAGCGAGGATGAGG  
ACAGTGACCATGAAGACAAAGACAGAGGCAGGGGAGCACCAGCCAGTAGTTCCACACCTGCAGAGGCTGA  
GCTGGCAGGCGAAGGCATCTCCATCAATACAGGTCCAAAAGGTGTGATCAATGACTGGCGCCGCTTCAAG  
CAGTTGGAGACAGAGCAGAGGGAGGAGCAGTGCCGGGAGATGGAGCGGCTGATCAAAAAGCTGTCTATGA  
GCTGCAGGTCCCATCTGGATGAAGAGGAGGAGCAACAGAAACAGAAGGACCTCCAGGAGAAAATCAGTGG  
GAAGATGACTCTAAAGGAGTTTGGTACAAAGGACAAGAATTGGATGATGAAGAGTTTTTGCAGCAGTAT  
CGGAAGCAGAGGATGGAAGAGATGCGGCAGCAGTTTCATAAAGGGCCCAATTCAAGCAAGTTTTTGAAA  
TCCCCAGTGGAGAAGGGTTTTAGATATGATTGATAAAGAACAAGCAACTTATCATGGTTCATAT  
TTATGAAGATGGCGTCCCAGGACTGAAGCCATGAATGGCTGCATGATCTGCCTTGCCACAGAGTACCCC  
GCCGTCAAATTCTGTGGGTGAGGAGCTCAGTTATTGGGGCCAGTAGTCGTTTTACCCGGAATGCCCTTC  
CTGCTCTGCTCATCTACAAGCGGGTGAATTGATTGGCAATTTGTTTCGAGTCACTGACCAGCTGGGGGA  
AGATTTCTTTGCTGTAGACCTTGAAGCTTTCCTGCAGGAATTTGGATTGCTCCAGAAAAGGAAGTCTTG  
GTGCTGACATCTGTGCGAAACTTGCCACCTGTCACAGTGAAGACAGCGATCTGGAAATAGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204196 protein sequence  
Red=Cloning site Green=Tags(s)

MTTLDDKLLGEKLQYYYSTSEDESDHEDKDRGRGAPASSSTPAEELAGEGISINTGPKGVINDWRRFK  
 QLETEQREEQCREMERLIKLLSMSCRSHLDEEEEQKQKDLQEKISGKMTLKEFGTKDKNLDDEEFLQOY  
 RKQRMEEMRQQFHKGPFKQVFEIPSGEGFLDMIDKEQKSTLIMVHIYEDGVPTEAMNGCMICLATEYP  
 AVKFCRVRSSVIGASSRFRNALPALLIYKAGELIGNFVRVTDQLGEDFFAVDLEAFLQEFGLLPEKEVL  
 VLTSVRNSATCHSESDLEID

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_026176

**ORF Size:** 906 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\\_026176.2](#), [NP\\_080452.1](#)

**RefSeq Size:** 2859 bp

**RefSeq ORF:** 906 bp

**Locus ID:** 67466

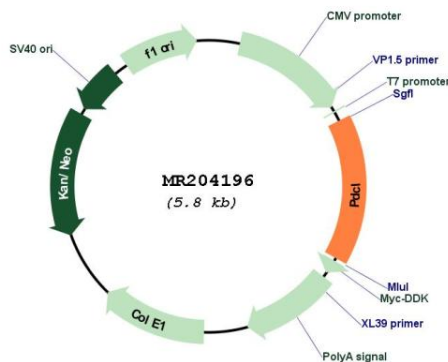
**UniProt ID:** [Q9DBX2](#)

**Cytogenetics:** 2 B

**MW:** 34.4 kDa

**Gene Summary:** Functions as a co-chaperone for CCT in the assembly of heterotrimeric G protein complexes, facilitates the assembly of both Gbeta-Ggamma and RGS-Gbeta5 heterodimers (PubMed:23637185). Acts also as a positive regulator of hedgehog signaling and regulates ciliary function (PubMed:29290584).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR204196