

## Product datasheet for MR205959

### Ptcd2 (NM\_026873) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ptcd2 (NM_026873) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptcd2
Synonyms:	1190005P08Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205959 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTACGGTGTTCGGCCCTGGAACGCCTGAGGGTGCCGCTCCTTCGCTGCATCCCGGGTGACGG  
GCTCAGGCTCCGCTGCTGCCGCTGCCTCGGAGCTAAAAGATACCTACTCACAGATAACATTGTGAA  
GTTAAAGGAATTTCAACATAAGAAGATAGCTATTGCATATAACCTACCTGGCACCAAGAAATCTATTT  
AGAACTTGAAGAGAAGTTGACCCAGAACAACTCATCTGAAGGAAGAGTTGAAAACGCTGCTGTACC  
TGTGCCAGTCCCTGGAAGATGTGCAGCTGGCGAAAGCCGTCATTTATAGGTACCATGCAGAAAACAAGAA  
TTTCACTTTGGGGAATACAAGTTCCGACCAAGTTTCATGAGGCTGTGCTACGAGCTGGACTGGAGGAC  
TCTGCAGTGGAGCTCGTCAGAGACAAGCATCTACAAGGCTTCTTCTAGATTCAACGTCATTCAATATT  
TGATGGATATGTTATTTACCAAAGGCAAAATATGAACGTGCACTTCAAGTGTGATCGAAATGAAAAACCA  
AGATGTGAGGTTTCAGCAAAGAACTACATCCTCGCTTTTGAATCTGCTACAACTGAATACCTGGAA  
TCGCTTAAATCTGTACTACGTTAAGAGAAGAAGCCATAATTAAGGGAGACATTATCTGCAGGAGAGCAT  
ACTGTTTTGTAGTGGCATTAGCTCTGAATAAGAACCAGTTGAAAAACGCTGTGTCCATTTTTCTCAAT  
CGTGAATCCAGAAAGCATAGTGTGATTAACCTAAATATCTTGATCCACATCCAGTCAAATATGTTGGAA  
AGCCTGTTAAAGATCTTAGAGGACTCTTTGACACAAATTTATCGAAATTTGTAAGAAGACACACATTCT  
CAGAGGAAGTGTGGCCAAAGTGAGGGAAAACTGAAGGACAGCCCTGCACTCATAGCCAGATTCGATGA  
GGTCTATGGGAAGCTGCACGTGAACGGTCAAATCACCGTTCATTCTTTGGATGCTGCTGCTGCCACGTC  
CCCCGGGACAAGAGATCCAACCTGTTGCTGTTAAAGAAGAGGGCAGTCAGCCACCGGACCTTACAGCCTC  
TCAGCCGGTCCCTGCTGACCGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205959 protein sequence  
Red=Cloning site Green=Tags(s)

MATVFRPLERLRVPRPSLHPGVTGSGSACCRCTLGAKRYLLTDNIVKLKEFQHKKIAIAYNLPGTKEIYF  
 RNLEEKLTQNKLILKEELKTLLEYLQSQLESDVQLAKAVIYRYHAENKNFTLGEYKFGPVFMRLCYELDLED  
 SAVELVRDKHLQGFLLDSTSFNILMDMLFTKGYERALQVLIEMKNQDVRFSKETYILAFICYKLNLTLE  
 SLKICTTLREEALIKGDIICRRAYCFVVALALNKNQKNAVSIFSQIVNPESIVCINLNLIHIQSNMLE  
 SLLKILEDSDLTNLSKFVRRHTFSEEVLAKVREKLDKSPALIARFDEVYGKLVHNGQITVHSLDALLCHV  
 PRDKRSNLLLLKKRAVSHRTLQPLSRSLLTE

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\_026873

**ORF Size:** 1146 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\\_026873.1](#)

**RefSeq Size:** 1675 bp

**RefSeq ORF:** 1146 bp

**Locus ID:** 68927

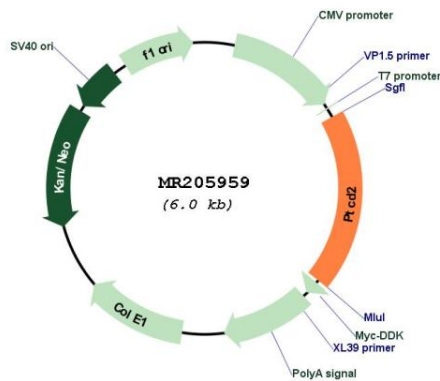
**UniProt ID:** [Q8R3K3](#)

**Cytogenetics:** 13 D1

**MW:** 43.8 kDa

**Gene Summary:** Involved in mitochondrial RNA maturation and mitochondrial respiratory chain function.  
[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR205959