

## Product datasheet for **MR216202**

### **Ptcd3 (NM\_027275) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ptcd3 (NM_027275) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptcd3
Synonyms:	2610034F17Rik; 2810422B04Rik; AA589622; AU045708; MRP-S39
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR216202 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGGGCGGCGGTTGCAGCTCGACGCTGTCTTTTCGAGCGGGCTTGTCTTGTGCAGACCACTC  
GGGGACGGGTGTGTGAACCGAAGGTCTGTTGCAGATTTTATGCTGGAAGTGAATCCCTCCAAAGGT  
TGAAGGATCAGATATAACAGGGATTGAAGAAATAGTCATTCCAAAAAGAAAACATGGGATAAAGTGGCT  
GTTCTTCAGGCACTTGCATCCACAGTAAACAGGGATCCTACAGCTGCACCTTATGTATTTTACAGTATC  
CTTACCTCATACCAACCTCTGCTCTGGAGTCTCGTTCATTTTTATTGGCAAAGAAGTCTGGAGAGACTGC  
AGCAAAGTTTATTATTAATTCATATCCCAAATATTTCCAAAAGGATATAGCTGAGCCTCATATACCGTGC  
TTAATGCCTGAGTACTTTGAGCCTCAGATTGAAGATGAAGCGAAGCTGCCCTGGAGGAGCGAATCAGAC  
TCAGAAAAGTCAAGCTTCTGTGGACATGTTTGACCAGCTCTTGAAGCAGGAACACAGTCTCTCTTGA  
AACAACTAATAGTCTTTTGGATTTATTGTGTTACTATGGTGACCAAGAGCCCCAGCTGACTATCCTTTT  
CAACAACTGAACATTTGGAAAAGTGGAAAGCTGCAGAGGAAAATAATCAAACATCCAAGATGGAGT  
CTGGTCTTTGGAAAGCACAACAAATGCTGAGAGGATCTTCGCTTTAATGCCAGAGAAGAATGCACGCTC  
CTACTGCACGATGATCCGAGGGATGGTGAAGCACCAGCTTATGCACAGGCACTGAACGTGTACGCAGAG  
TTATTAATAACAGACTCAGTGTGATGTATATACCTTTAATGCATTGATTGAAGCAAAAACATTCATAC  
TCAATGAGAAATTTGAGGAAAAATGGAATGATATACTGGATCTACTGAAACATATGGTTGCACAGAAAGT  
GAAACCAATCTGCAGACTTTTAAACAATATTGAAAGGTCTCCGGAAGTGTACTCACTTGAAGGATA  
CCAGCCTTACAGATACTACGTGAAATGAAACATATTGGAATAGAACCCTCACTTGAACATACCATCATA  
TTATTCACCTCTTTTATCCAAGAGACTTAAGCGCTATAAAAATGCCATCCCTCATCATCATGATATCAT  
GAATGAATTAGAGGGAAGAACATTTTCCACAGGACCTTGATGATGGTAGATTTTTTTCAGTTGGCCATG  
AGTGTGTGTTTCTCTCAGAGATTTAGAGCTTGCTTACCAAGTACACAGACTTTTAAACACGGGGACA  
ACCGGAAACTGGTCGGACATGATCCTCTACGTAAGGTATATTATTCGAAGTTTTTTCAGTTTGATTTGTT  
ACTGGAACAAATGATGTCACCTTGAAGTGGTATAAAGGACCTAATACCTTCAGTGTTCCTCCCACTAC  
CAAATATTCATAGGTCTTCTCAAGCATTGGATGTGGCCAATAGACTAGAATTGGTTCTCAGATTTGGA  
AAGATAGTAAAGAATACAGTCACTTTCCGAGATGCCCTAAGAGAAGAAGTATTGATGCTCATGGCCAG  
GGATAAACATCCACCAGAGCTTCAGGTTGCATTTGCTGACTGTGCTGCTGATATCAAATCCACATACGAA  
GACCAGGTTGCCCGCAGCCTGCTTTTGTATTGGCCAGCCAACCCTTACAGTATATAGCTGTCCTTTTTT  
TAAGAGGTGGCCGAACCCAGGAAGCCTGGAAAATGTTGGAACCTTCAAAAAGCATAATAAGATCCAG  
AAATGAATTGCTGGAGGAATTCATGGACACAGCGAAAGCATCCGGTAGCACTGCTCTGGCCATTGAGGT  
GTAAGCTGGCAAGTGCCTTCAGCTTGCCTATTGGGGAGAGCCTTGCCCAAAGAGTAGTGATGGATTTCA  
CAGTTGACCCAGAACAAAAGAAGCCCTGGTAACCTCACTGAACTGAACAGTAGCGATGGAGAAAGCAG  
CAGTGACAGTGACAGTGACGACAAA

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216202 protein sequence  
 Red=Cloning site Green=Tags(s)

MAAAVAARRLSFRSGLVLLQTTRGTGVCPEKVCRRFYAGTESLPKVEGSDITGIEEIVIPKKTWDKVA  
 VLQALASTVNRDPTAAPVVFHDDPYLIPTSALESRSFLLAKKSGETAAKFIINSYPKYFQKDIAEPHIPC  
 LMPEYFEPQIEDVSEAALEERIRLRKVRASVDMFDQLLQAGTTVSLETTNSLLDLLCYYGDQEPADYYPF  
 QQTEHLENLEAAEENNQTSKMESGPWKAQNNAERIFALMPEKNARSYCTMIRGMVKHRAYAQALNVYAE  
 LLNNRLSADVYTFNALIEAKTFILNEKFEEKWINDILLDLKHMVAQKVKPNLQTFNTILKGLRKCYSLGRI  
 PALQILREMKHIGIEPSLATYHHIIHLFYPRDLSAIKMPSLIIYDIMNELEGRTFSPQDLLDGRFFQLAM  
 SVCSSLRDLELAYQVHRLNLTGDNRKLVGHDPLRKVYYSKFFSLICSLEQIDVTLKWKDLIPSVFLPHY  
 QIFIGLLQALDVANRLELVPQIWKDSKEYSHTFRDALREEVLMMLARDKHPPQLQVAFADCAADIKSTYE  
 DQGARQPAFDWPNPLQYIAVFLRGGRTQEAWKMLELFKKNKIPRNELLEEFMDTAKASGSTALAEIV  
 VKLASAFSLPIGESLAQRVVMDFTVDPQKEALGNLTELNSSDGESSSDSDSDDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM\_027275

ORF Size: 2058 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\\_027275.2](#), [NM\\_027275.3](#), [NP\\_081551.2](#)

**RefSeq Size:** 2601 bp

**RefSeq ORF:** 2058 bp

**Locus ID:** 69956

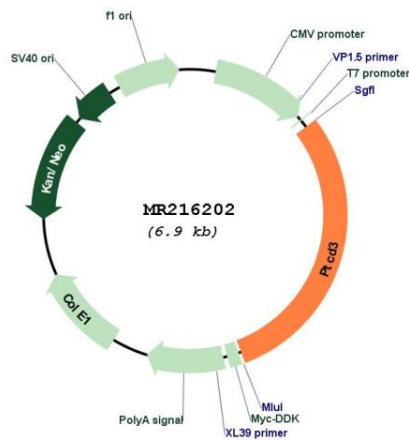
**UniProt ID:** [Q14C51](#)

**Cytogenetics:** 6 C1

**MW:** 77.7 kDa

**Gene Summary:** Mitochondrial RNA-binding protein that has a role in mitochondrial translation.  
[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR216202