

## Product datasheet for **MG207616**

### **Cndp2 (BC005532) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cndp2 (BC005532) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cndp2
Synonyms:	0610010E05Rik; C76600; Cn2; Dip-2; Pep-1; Pep1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207616 representing BC005532  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCAGCCCTCAAAGCTGTCTTCCAGTATATCGATGAAAACCAGGACCGCTACGTCAGAAACTTGCAG  
 AATGGGTGGCCATCCAGAGCGTGTCCGCATGGCCGGAGAAGAGAGAGAGATCAGAAGGATGATGGAGGT  
 GGCAGCTGCCGATGTCCAGAGGCTGGGGGGCTCCGTGGAAGTGGTGGATATTGGGAAGCAGAAGCTCCCA  
 GATGGCTCGGAGATACCACTTCTCCATTCTGCTGGCAAGCTAGGCAGCGACCCCAAGAAAACCG  
 TGTGCATTTACGGGCACCTGGACGTGCAGCCTGCGGCCCTGGAGGACGGTGGGACAGCGAGCCCTTAC  
 CTTGGTGGAGCGGAAGCAAGCTGTATGGGAGAGGCTCCACGGACGATAAGGGGCCAGTGGCCGGGTGG  
 ATGAATGCCCTGGAAGCCTATCAGAAGACTGGTCCAGGAGATCCCAGTCAACCTGCGGTTCTGCCTGGAAG  
 GCATGGAGGAGTCTGGCTCCGAAGGCCTGGATGAGCTCATTTTTGCCAGAAAGACAAGTCTTCAAGA  
 TGTGGACTATGTGTGATTTAGACAATTACTGGCTGGGAAGAATAAGCCGTGTATCACGTACGGCCTC  
 AGAGGCATCTGTTACTTCTTCATCGAGGTGGAATGCAGTGACAAAAGACCTCCATTCTGGGTATATGGAG  
 GCTCAGTGCACGAGGCCATGACGGATCTCATTTCACTGATGGGCTGCCTGGTAGACAAGAAGGGGAAGAT  
 CCTCATCCCGGCATCAACGATGCCGTGGCGCCTGTGACGGATGAGGAGCATGCGCTCTACGACCACATT  
 GACTTCGATATGGAAGAGTTCGCAAGGACGTGGGGGCTGAGACCCTTCTGCACAGCTGCAAGAAAGACA  
 TCCTGATGCACAGATGGCGATACCCGTCCTCTCCCTGCATGGGATCGAAGGGGCCTTCTCCGGTTCAGG  
 GGCAAGACTGTGATCCCAGAAAGGTGGTCGGCAAGTCTCCATCAGGCTCGTCCAGACATGATACCG  
 GAAGTTGTTAGCGAGCAAGTTTCAAGCTACTTGTCAAAAAATTTGCTGAACTGCAGAGCCCAACAAGT  
 TCAAGTGTACATGGGCCACGGCGGAAGCCCTGGGTGTCTGACTTCAACCATCCTATTACCAGCGGGG  
 GAGAAGAGCCCTGAAGACAGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
 GAGTGGT  
 ACCTTGACCTTTCAAGAGCCACAGGCAAAAATGTCATGCTATTGCCAGTGGGGTCCAGCAGATGACGGTG  
 CCCACTCGCAGAAATGAGAAGCTCAACAGGCTCACTACATAGAAGGAACCAAAAATGCTGGCTGCATATCT  
 GTATGAGGTGTCTCAGCTGAAGAAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207616 representing BC005532  
 Red=Cloning site Green=Tags(s)

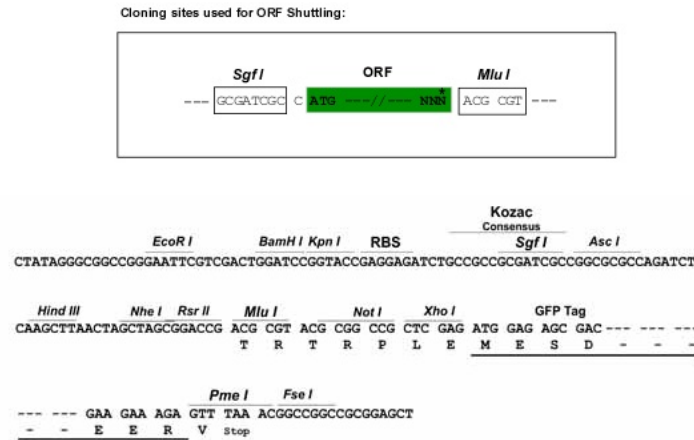
MSALKAVFYIDENQDRYVKKLAEWVAIQSVSAWPEKRGEIRRMMEVAAADVQRLGGSVELVDIGKQKLP  
 DGSEIPLPPIILLGKLGSDPQKKTVCITYGHLDVQPAALDGDWSEPFTLVEREGKLYGRGSTDDKGPVAGW  
 MNAL EAYQKTGQEI PVNLRFCLEGMEE SSGSEGLDELIFAQKDKFFKDVDYVCI SDNYWLGNKPCITYGL  
 RGICYFFIEVECSDKDLHSGVYGGSVHEAMTDLISLMGCLVDKKGKILIPGINDAVAPVTDEEHALYDHI  
 DFDMEEF AKDVGAETLLHSCCKDILMHRWRYPSLSLHGIEGAFSGSGAKTVIPRKVVGKFSIRLVPMIP  
 EVVSEQVSSYLSKKFAELQSPNFKVYMGHGKPVVSDFNHPHYQARRALKTVFGVEPDLTREGGSIPV  
 TLTQFEATGKNVMLLPVGSADDGAHSQNEKLNRLNYIEGTMKMLAAYLYEVSQKLN

**TRTRPLE** - GFP Tag - V

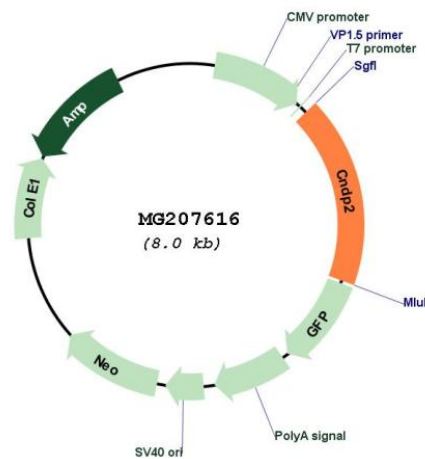
**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



## Plasmid Map:



ACCN: BC005532

ORF Size: 1427 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:** [BC005532](#), [AAH05532](#)

**RefSeq Size:** 2152 bp

**RefSeq ORF:** 1427 bp

**Locus ID:** 66054

**Cytogenetics:** 18 E4

**Gene Summary:** Hydrolyzes a variety of dipeptides including L-carnosine but has a strong preference for Cys-Gly. Catalyzes the production of N-lactoyl-amino acids from lactate and amino acids by reverse proteolysis.[UniProtKB/Swiss-Prot Function]