

Product datasheet for **MR230092**

Cndp2 (NM_001289531) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cndp2 (NM_001289531) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cndp2
Synonyms:	0610010E05Rik; C76600; Cn2; Dip-2; Pep-1; Pep1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230092 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCAGCCCTCAAAGCTGTCTTCCAGTATATCGATGAAAACCAGGACCGCTACGTCAGAAACTTGCAG
 AATGGGTGGCCATCCAGAGCGTGTCCGCATGGCCGAGAAGAGAGAGAGATCAGAAGGATGATGGAGGT
 GGCAGCTGCCGATGTCCAGAGGCTGGGGGGCTCCGTGGAAGTGGTGGATATTGGGAAGCAGAAGCTCCCA
 GATGGCTCGGAGATACCACTTCCCTCCATTCTGCTGGCAAGCTAGGCAGCGACCCCAAGAAAACCG
 TGTGCATTTACGGGCACCTGGACGTGCAGCCTGCGGCCCTGGAGGACGGTGGGACAGCGAGCCCTTAC
 CTTGGTGGAGCGGAAGCAAGCTGTATGGGAGAGGCTCCACGGACGATAAGGGGCCAGTGGCCGGGTGG
 ATGAATGCCCTGGAAGCCTATCAGAAGACTGGTCCAGGAGATCCCAGTCAACCTGCGGTTCTGCCTGGAAG
 GCATGGAGGAGTCTGGCTCCGAAGGCCTGGATGAGCTCATTTTTGCCAGAAAGACAAGTCTTCAAAGA
 TGTGGACTATGTGTGATTTAGACAATTACTGGCTGGGAAGAATAAGCCGTGTATCACGTACGGCCTC
 AGAGGCATCTGTTACTTCTTCATCGAGGTGGAATGCAGTGACAAAAGACCTCCATTCTGGGTATATGGAG
 GCTCAGTGCACGAGGCCATGACGGATCTCATTTCACTGATGGGCTGCCTGGTAGACAAGAAGGGGAAGAT
 CCTCATCCCGGCATCAACGATGCCGTGGCGCCTGTGACGGATGAGGAGCATGCGCTCTACGACCACATT
 GACTTCGATATGGAAGAGTTCGCCAAGGACGTGGGGGCTGAGACCCTTCTGCACAGCTGCAAGAAAGACA
 TCCTGATGCACAGATGGCGATACCCGTCCTCTCCCTGCATGGGATCGAAGGGGCCTTCTCCGGTTCAGG
 GGCAAGACTGTGATCCCAGAAAGGTGGTCGGCAAGTCTCCATCAGGCTCGTCCAGACATGATACCG
 GAAGTTGTTAGCGAGCAAGTTTCAAGCTACTTGTCAAAAAATTTGCTGAACTGCAGAGCCCAACAAGT
 TCAAGGTGTACATGGGCCACGGCGGAAGCCCTGGGTGTCTGACTTCAACCATCCTCATTACCAGCGGG
 GAGAAGAGCCCTGAAGACAGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 ACCTTGACCTTTCAAGAGGCCACAGGCAAAAATGTCATGCTATTGCCAGTGGGTCAGCAGATGACGGTG
 CCCACTCGCAGAAATGAGAAGCTCAACAGGCTCACTACATAGAAGGAACCAAAATGCTGGCTGCATATCT
 GTATGAGGTGTCTCAGCTGAAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230092 protein sequence
 Red=Cloning site Green=Tags(s)

MSALKAVFYIDENQDRYVKKLAEWVAIQSVSAWPEKRGEIRRMMEVAAADVQRLGGSVELVDIGKQKLP
 DGSEIPLPPIILLGKLGSDPQKKTVCYIYGHLDVQPAALDGDWSEPFTLVEREGKLYGRGSTDDKGPVAGW
 MNAL EAYQKTGQEIPVNLRFCEGMEESGSEGLDELIFAQKDKFFKDVDVYVCISDNYWLGNKPCITYGL
 RGI CYFFIEVECSDKDLHSGVYGGSVHEAMTDLISLMGCLVDKKGKILIPGINDAVAPVTDEEHALYDHI
 DFDMEEFKDVGAETLLHSCCKDILMHRWRYPSSLHGIEGAFSGSGAKTVIPRKVVGKFSIRLVPMIP
 EVVSEQVSSYLSKKFAELQSPNFKVYMGHGKPVVSDFNHPHYQAGRRALKTVFVPEPDLTREGGSIPV
 TLTQFEATGKNVMLLPVGSADDGAHSQNEKLNRLNYIEGTMKMLAAYLYEVSQLKN

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001289531

ORF Size: 1428 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_001289531.1](#), [NP_001276460.1](#)
RefSeq Size: 2169 bp

RefSeq ORF: 1428 bp

Locus ID: 66054

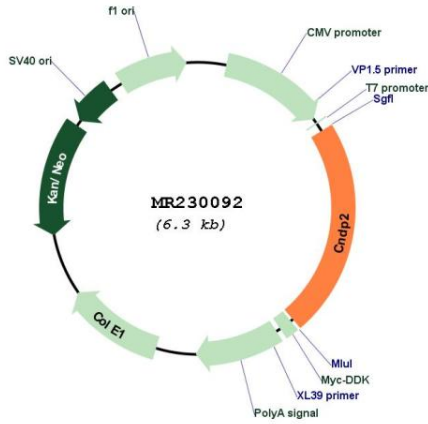
UniProt ID: [Q9D1A2](#)

Cytogenetics: 18 E4

MW: 52.8 kDa

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]

Product images:



Circular map for MR230092