

## Product datasheet for **RR201454**

### **Cndp2 (NM\_001010920) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cndp2 (NM_001010920) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cndp2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RR201454 representing NM\_001010920  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCAGCCCTCAAAGCTGTCTTCCAGTACATTGACGAAAACCAGGACCGCTTTGTCAAGAACTTGCAG  
 AATGGGTGGCCATCCAGAGCGTGTCCGCGTGGCCGGAGAAGAGAGAGAGATCAGAAGGATGACGGAAGC  
 GGCAGCTGCAGATGTCCAGAGGCTGGGGGATCTGTGGAGCTGGTGGATATCGGGAAGCAGAAGCTCCCA  
 GACGGCTCGGAGATACCACTTCTCCATTCTGCTCGGCAAACCTGGGAGTATCCCCAGAAGAAAACGG  
 TGTGCATTTACGGGCACCTGGATGTGCAGCCTGCAGCCCTGGAGGACGGATGGGACAGCGAGCCCTTAC  
 CTTGGTGGAGCGGAAGGCAAATTTGTACGGGAGAGGCTCCACAGATGATAAGGGGCGGTGGCCGGATGG  
 ATGAACGCCCTGGAAGCCTATCAGAAGACTGGCCAGGAAATCCCTGTCAACCTGCGGTTCTGCCTGGAAG  
 GCATGGAGGAATCTGGTCCGAAGGCTGGACGAGTTAATTTTCCAGAAAGACAAGTCTTCAAGA  
 TGTGGACTATGTGTGCATCTCGACAATTACTGGCTGGGAAGAATAAGCCGTGTATCACGTACGGCCTC  
 AGGGGCATTTGTTACTTCTCATCGAGGTGGAATGCAGTGACAAAAGACCTCCATTCTGGGTATACGGTG  
 GCTCAGTGCACGAAGCCATGACGGATCTCATTTCACTGATGGGCTGCCTGATAGACAAGAAGGGGAAAAT  
 CCTCATCCCCGGCATCAACGACGCCGTGGCTCCTGTGACGGATGAGGAGCATGAGCTCTATGACCACATT  
 GACTTCGATATGGAAGAGTTCGCAAGGACGTGGGAGCCGGACCTTCTGCACAGCTGCAAGAAAGACA  
 TCCTGATGCACAGGTGGCGATACCCATCCCTCTCCCTCCATGGAATCGAAGGGGCCTTCTCCGGTTCAGG  
 GGCAAGACTGTGATCCCAGGAAAGTGGTCGGCAAGTTCTCCATCAGGCTCGTGCCCGACATGATACCG  
 GAAGTTGTTAGCGAGCAAGTTTCAAGCTACTTGTCAAAAAGTTTGCAGAACTGCAGAGCCCCAACAAAGT  
 TCAAGGTGTACATGGCCATGGCCGGAAGCCCTGGGTGTCTGACTTCAACCATCCTCACTACGAGCCGGG  
 GAGAAGAGCCCTGAAAACAGTGTGGTGTGAACCTGACTTGACCAGAGAAGGTGGCAGTATTCCTGTG  
 ACCTTGACCTTTTCAAGGAGCTACAGGCAAAAATGTCATGCTGTTGCCGGTGGGTCAGCAGATGACGGTG  
 CCCACTCGCAGAATGAAAAGCTCAACAGGCTCAACTACATAGAAGGAACCAAGATGCTGGCTGCATATCT  
 GTATGAGGTGTCTCAGCTGAAGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR201454 representing NM\_001010920  
 Red=Cloning site Green=Tags(s)

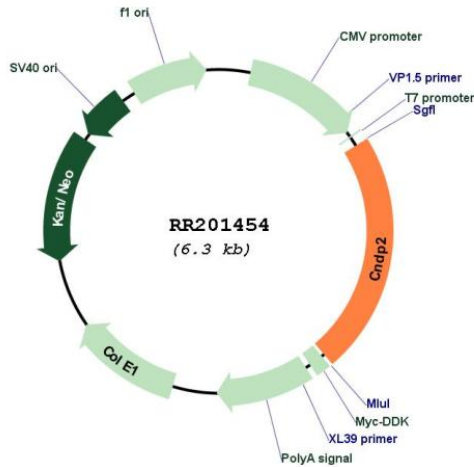
MSALKAVFYIDENQDRFVKKLAEWVAIQSVSAWPEKRGIEIRRMTEAAAADVQRLGGSVELVDIGKQKLP  
 DGSEIPLPPIILLGKLGSDPQKKTVCYIYHLDVQPAALDGDWSEPFTLVEREGKLYGRGSTDGKGPVAGW  
 MNAL EAYQKTGQEI PVNLRFCLEGMEE S GSEGLDELIFAQKDKFFKDVDVYVCISDNYWLGNKPCITYGL  
 RGI CYFFIEVECSDKDLHSGVYGGSVHEAMTDLISLMGCLIDKKGKILIPGINDAVAPVTDEEHLYDHI  
 DFDMEEF AKDVGAGTLLHSCCKDILMHRWRYPSLSLHGIEGAFSGSGAKTVIPRKVVGF S IRLVPMIP  
 EVVSEQVSSYL SKFAELQSPNKFVYMGHGGKPWVSDFNHPHYQARRALKTVFGVEPDLTREGGSIPV  
 TLFQEQATGKNVMLLPVGSADDGAHSQNEKLNRLNYIEGTMKMLAAYLYEVSQKLN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001010920

**ORF Size:** 1425 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001010920.1</a></u> , <u><a href="#">NP_001010920.1</a></u>
<b>RefSeq Size:</b>	2106 bp
<b>RefSeq ORF:</b>	1428 bp
<b>Locus ID:</b>	291394
<b>UniProt ID:</b>	<u><a href="#">Q6Q0N1</a></u>
<b>Cytogenetics:</b>	18q12.3
<b>MW:</b>	52.7 kDa
<b>Gene Summary:</b>	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]