

Product datasheet for **RG200120**

CNDP2 (NM_018235) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNDP2 (NM_018235) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CNDP2
Synonyms:	CN2; CPGL; HEL-S-13; HsT2298; PEPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG200120 representing NM_018235
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCCCTCACTACCCTGTTAAGTACATAGATGAAAATCAGGATCGCTACATTAAGAACTCGCAA
 AATGGGTGGCTATCCAGAGTGTGTCTGCGTGGCCGGAGAAGAGAGGCGAAATCAGGAGGATGATGGAAGT
 TGCTGCTGCAGATGTTAAGCAGTTGGGGGCTCTGTGAACTGGTGGATATCGGAAAAACAAAGCTCCCT
 GATGGCTCGGAGATCCCCTCCCTCTATTCTGCTCGGCAGGCTGGGCTCCGACCCACAGAAGAAGACCG
 TGTGCATTTACGGGCACCTGGATGTGCAGCCTGCAGCCCTGGAGGACGGCTGGGACAGCGAGCCCTTAC
 CCTGGTGGAGCGAGACGGCAAGCTGTATGGGAGAGTTCGACTGATGATAAGGGCCCGTGGCCGGCTGG
 AATAACGCCCTGGAAGCGTATCAGAAAACAGGCCAGGAGATTCTGTCAACGTCCGATTCTGCCTCGAAG
 GCATGGAGGAGTCAAGCTCTGAGGGCTAGACGAGCTGATTTTCCCGAAAGACACATTTTAAAGGA
 TGTGGACTATGTCTGCATTTCTGACAATTACTGGCTGGGAAAGAAGAAGCCCTGCATCACCTACGGCCTC
 AGGGGCATTTGCTACTTTTTATCGAGGTGGAGTGCAGCAACAAAGACCTCCATTCTGGGTGTACGGGG
 GCTCGGTGCATGAGGCCATGACTGATCTCATTTTGTGATGGGCTCTTGGTGGACAAGAGGGGGAACAT
 CCTGATCCCCGGCATTACGAGGCCGTGGCCCGCTCACGGAAGAGGAGCACAAGCTGTACGACGACATC
 GACTTTGACATAGAGGAGTTTGCCAAGGATGTGGGGGCGCAGATCCTCCTGCACAGCCACAAGAAAGACA
 TCCTCATGCACCGATGGCGGTACCCGTCTCTGTCCCTCCATGGCATCGAAGGCGCCTTCTCTGGGTCTGG
 GGCAAGACCGTATTCCAGGAAGGTGGTGGCAAGTTCTCCATCAGGCTCGTCCGAACATGACTCCT
 GAAGTCGTGGCGAGCAGGTACAAGCTACCTAACTAAGAAGTTTGTGAACTACGACGCCCAATGAGT
 TCAAGTGTACATGGCCACGGTGGGAAGCCCTGGGCTCCGACTTCAGTCAACCTCATTACCTGGTGG
 GAGAAGAGCCATGAAGACAGTTTTTGGTGTGAGCCAGACTTGACCAGGGAAGGCGCAGTATTCCCGTG
 ACCTTGACCTTTAGGAGGCCACGGCAAGAAGCTCATGCTGCTGCTGCTGGGTGAGCGGATGACGGAG
 CCCACTCCAGAATGAAAAGCTCAACAGGTATACTACATAGAGGGAACCAAGATGCTGGCCGCTACCT
 GTATGAGGTCTCCAGCTGAAGGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG200120 representing NM_018235
 Red=Cloning site Green=Tags(s)

MAALTTLFKYIDENQDRYIKKLAKWVAIQSVSAWPEKRGEIRRMMEVAAADVQVLGGSVELVDIGKQKLP
 DGSEIPLPPIILLGRLGSDPQKKTVCITYGHLDVQPAALDGDWSEPFTLVERDGKLYGRGSTDGKGPVAGW
 INALEAYQKTGQEIIPVNVRFCEGMEESGSEGLDELIFARKDTFFKDVDYVCI SDNYWLGKKKPCITYGL
 RGICYFFIEVECSNKDLHSGVYGGSVHEAMTDLILLMGS�VDRGNILIPGINEA VAAVTEEEHKL YDDI
 DFDIEEF AKDVGAQILLHSHKIDILMHRWRYPSLSLHGIEGAFSGSGAKTVIPRKVVGKFSIRLVPNMTP
 EVVGEQVTSYLTKKFAELRSPNEFKVYMGHGKPVVSDFSHPHYLAGRRAMKTVFGVEPDLTREGGSIPV
 TLTQFEATGKNVMLLPVGSADDAHSQNEKLNRYNYIEGTMKLAAYLYEVSQKLD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_018235

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).

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_018235.3](#)

RefSeq Size: 2643 bp

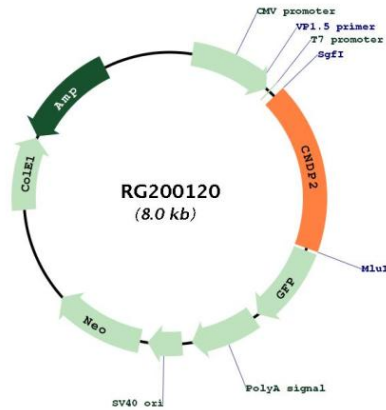
RefSeq ORF: 1428 bp

Locus ID: 55748

UniProt ID: [Q96KP4](#)

Cytogenetics: 18q22.3
Domains: Peptidase_M20
Protein Families: Protease
Gene Summary: CNDP2, also known as tissue carnosinase and peptidase A (EC 3.4.13.18), is a nonspecific dipeptidase rather than a selective carnosinase (Teufel et al., 2003 [PubMed 12473676]). [supplied by OMIM, Mar 2008]

Product images:



Circular map for RG200120