

## Product datasheet for **RG229984**

### CNDP2 (NM\_001168499) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CNDP2 (NM_001168499) 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)
ORF Nucleotide Sequence:	>RG229984 representing NM_001168499 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCCCTCACTACCCTGTTAAGTACATAGATGAAAATCAGGATCGCTACATTAAGAACTCGCAA  
AATGGGTGGCTATCCAGAGTGTCTGCGTGGCCGGAGAAGAGAGGGCGAAATCAGGAGGATGATGGAAGT  
TGCTGTCGAGATGTTAAGCAGTTGGGGGCTCTGTGAACTGGTGGATATCGGAAAACAAAAGGAGATT  
CCTGTCAACGTCCGATTCTGCCTCGAAGGCATGGAGGAGTCAGGCTCTGAGGGCCTAGACGAGCTGATTT  
TTGCCCGAAAGACACATTCTTTAAGGATGTGGACTATGTCTGCATTTCTGACAATTACTGGCTGGGAAA  
GAAGAAGCCCTGCATCACCTACGGCCTCAGGGCATTGCTACTTTTTCATCGAGGTGGAGTGCAGCAAC  
AAAGACCTCCATTCTGGGGTGTACGGGGCTCGGTGCATGAGGCCATGACTGATCTCATTTTGTGATGG  
GCTCTTTGGTGGACAAGAGGGGGAACATCCTGATCCCCGGCATTAAACGAGGCCGTGGCCCGCTCACGGA  
AGAGGAGCACAAGCTGTACGACGACATCGACTTTGACATAGAGGAGTTTGCCAAGGATGTGGGGCGCAG  
ATCCTCCTGCACAGCCACAAGAAAGACATCCTCATGCACCGATGGCGGTACCCGTCTCTGTCCCTCCATG  
GCATCGAAGGCGCCTTCTCTGGGTCTGGGGCAAGACCGTGATCCCAGGAAGGTGGTTGGCAAGTTCTC  
CATCAGGCTCGTGCCGAACATGACTCCTGAAGTCGTGGCGAGCAGGTCACAAGCTACCTAACTAAGAAG  
TTTGCTGAACACGCAGCCCCAATGAGTTCAAGGTGACATGGCCACGGTGGGAAGCCCTGGGTCTCCG  
ACTTCAGTACCCTCATTACCTGGCTGGGAGAAGAGCCATGAAGACAGTTTTTGGTGTGAGCCAGACTT  
GACCAGGAAGGCGGCAGTATCCCGTGACCTTTCAGGAGGCCAGGGCAAGAAGCTCATGCTG  
CTGCCTGTGGGTGAGCGGATGACGGAGCCACTCCAGAATGAAAAGCTCAACAGGTATAACTACATAG  
AGGGAACCAAGATGCTGGCCGCTACCTGTATGAGGTCTCCAGCTGAAGGAC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG229984 representing NM\_001168499  
 Red=Cloning site Green=Tags(s)

MAALTTLFKYIDENQDRYIKKLAKWVAIQSVSAWPEKRGEIRRMMEVAAADVQKLGGSVELVDIGKQKEI  
 PVNVRFCLEGMEEESGSEGLDELIFARKDTFFKDVYVVICSDNYWLGKKKPCITYGLRGICYFFIEVECSN  
 KDLHSGVYGGSVHEAMTDLILLMGLSLVDKRGNILIPGINEAVAAVTEEHKLYDDIDFDIEEFKDVGAQ  
 ILLHSHKKDILMHRWRYPSSLHGIEGAFSGSAGKTVIPRKVVGKFSIRLVPNMTPEVVGEQVTSYLTKK  
 FAELRSPNEFKVYMGHGKPPWVSDFSHPHYLGRRAMKTVFVGEVPELDTREGGSIPVTLTFQEQATGKNVML  
 LPVGSADDGAHSQNEKLNRYNYIEGTMKLAAYLYEVSQPKD

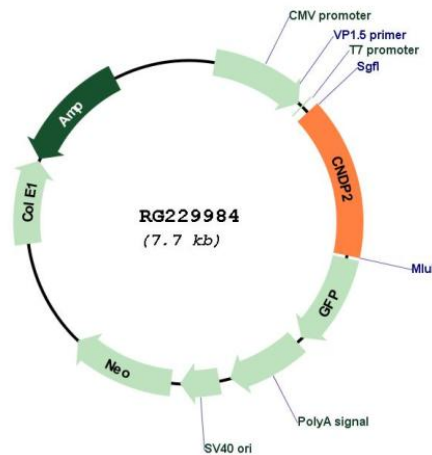
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001168499

<b>ORF Size:</b>	1173 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>	<a href="#">NM_001168499.1</a> , <a href="#">NP_001161971.1</a>
<b>RefSeq Size:</b>	4964 bp
<b>RefSeq ORF:</b>	1176 bp
<b>Locus ID:</b>	55748
<b>UniProt ID:</b>	<a href="#">Q96KP4</a>
<b>Cytogenetics:</b>	18q22.3
<b>Protein Families:</b>	Protease
<b>Gene Summary:</b>	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]