

Product datasheet for **RC224427**

Carboxypeptidase N subunit 2 (CPN2) (NM_001080513) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Carboxypeptidase N subunit 2
Synonyms:	ACBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC224427 representing NM_001080513
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTCCCTGGAGCCTGGCTGCTCTGGACCTCCCTCCTGCTCTGGCCAGGCCTGCCAGCCCTGTCCCA
 TGGGTTGTGACTGCTTCGTCAGGAGGTGTTCTGCTCAGATGAGGAGCTTGCCACCGTCCCCTGGACAT
 CCCGCCATATACGAAAAACATCATCTTTGTGGAGACCTCGTTCACCACATTGGAACCCAGAGCTTTTGGC
 AGTAACCCCAACTTGACCAAGGTGGTCTTCTCAACACTCAGCTCTGCCAGTTTAGGCCGGATGCCTTTG
 GGGGGCTGCCAGGCTGGAGGACCTGGAGGTACAGGCAGTAGCTTCTTGAACCTCAGCACCAACATCTT
 CTCAAACCTGACCTCGCTGGGCAAGCTCACCTCAACTTCAACATGCTGGAGGCTCTGCCCGAGGGTCTT
 TTCCAGCACCTGGCTGCCCTGGAGTCCCTCCACCTGCAGGGGAACAGCTCCAGGCCCTGCCAGGAGGC
 TCTTCCAGCCTCTGACCATCTGAAGACACTCAACCTGGCCAGAACCTCTGGCCAGCTCCCGGAGGA
 GCTGTTCCACCCACTCACCAGCCTGCAGACCTGAAGCTGAGCAACAACGCGCTCTCTGGTCTCCCCAG
 GGTGTGTTTGGCAAACCTGGGACGCTGCAGGAGCTCTTCTGGACAGCAACAACATCTCGGAGCTGCCCC
 CTCAGGTGTTCTCCAGCTCTTCTGCCTAGAGAGGCTGTGGCTGCAACGCAACGCCATCAGCAGCCTGCC
 GCTCTCCATCTTTGCCCTCCCTGGGTAATCTGACCTTTCTGAGCTTGCAAGTGAACATGCTTCGGGTCTG
 CCTGCCGGCTCTTTGCCACACCCCATGCCTGGTGGCTGTCTGACCCATAACAGCTGGAGACTG
 TCGCTGAGGGCACCTTTGCCACCTGTCCAACCTGCGTTCCTCATGCTCTACATAAATGCCATTACCCA
 CCTCCAGCTGGCATCTTCAGAGACCTGGAGGAGTTGGTCAAACCTACCTGGGAGCAACAACCTTACG
 GCGCTGCACCCAGCCCTCTTCCAGAACCTGTCCAAGCTGGAGCTGCTCAGCCTCTCCAAGAACAGCTGA
 CCACACTTCCGGAGGGCATCTTCGACACCAACTACAACCTGTTCAACCTGGCCCTGCACGGAACCCCTG
 GCAGTGCAGCTGCCACCTGGCCTACCTCTTCAACTGGCTGCAGCAGTACACCGATCGGCTCCTGAACATC
 CAGACCTACTGCGCTGGCCTGCCTACCTCAAAGGCCAGGTGGTGGCCGCTTGAATGAGAAGCAGCTGG
 TGTGTCCCGTCAACCGGACCACTTGGGCTTCCAGGTACGTGGCCGGACGAAAGCAAGGACGGGGGAG
 CTGGGATCTGGCTGTGCAGGAAAGGCCAGCCGAGCCAGTGCACCTACAGCAACCCGAGGGCACCGTG
 GTGCTCGCCTGTGACAGGCCAGTGTGCTGGCTGAACGTCCAGCTCTCTCCTTGGCAGGGCTCCCTGG
 GACTGCAGTACAATGCTAGTACAGGAGTGGGACCTGAGGTGAGCTGCGGTTCTCTGCGGCTCACCCTGTC
 TATCGAGGCTCGGGCAGCAGGGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224427 representing NM_001080513
 Red=Cloning site Green=Tags(s)

MLPGAWLLWTSLLLLARPAQPCPMGDCDFVQEVFCSDEELATVPLDIPPYTKNIIFVETSFTTLETRAFG
 SNPNLTKVVFLNTQLCQFRPDAGGLPRLEDLEVTGSSFLNLSNIFSNLTSLGKLTNLFNMLEALPEGL
 FQHLAALESLSLQNLQALPRRLFQPLTHLKTNLQAQNLQAQPEELFHPLTSLQTLKLSNNALSGLPQ
 GVFGKLGSLQELFLDSNNISELPPQVFSQFLCLERLWLQRNAITHLPLSIFASLGNLTFLSLQWNMLRVL
 PAGLFAHTPCLVGLSLTHNQLETVAEGTFAHLNLSRLMLSYNAITHLPAGIFRDLEELVKLYLGSNNLT
 ALHPALFQNLKLELLSLSKNQLTTLPEGIFDTNLYNLFNLALHGNPWQCDCHLAYLFNWLQQYTDRLNI
 QTYCAGPAYLKQGVVPALNEKQLVCPVTRDHLGFQVTWPDESKAGGSWDLAVQERAARSQCTYSNPEGTV
 VLACDQAQCRWLNVLSPWQSLGLQYNASQEWDLRSSCGSLRLTVSIEARAAGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8043_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001080513

ORF Size: 1635 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.

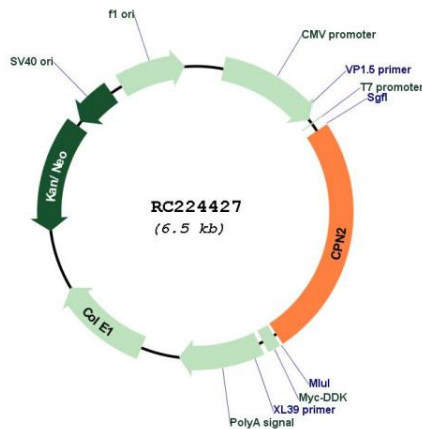
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001080513.1](#), [NP_001073982.1](#)

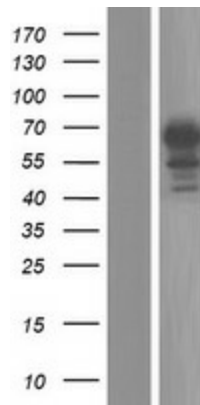
RefSeq Size: 3028 bp
 RefSeq ORF: 1638 bp
 Locus ID: 1370
 UniProt ID: [P22792](#)
 Cytogenetics: 3q29
 MW: 60.4 kDa

Gene Summary: The 83 kDa subunit binds and stabilizes the catalytic subunit at 37 degrees Celsius and keeps it in circulation. Under some circumstances it may be an allosteric modifier of the catalytic subunit.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC224427



Western blot validation of overexpression lysate (Cat# [LY421068]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224427 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).