

Product datasheet for **RC238832**

Carboxypeptidase N subunit 2 (CPN2) (NM_001291988) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carboxypeptidase N subunit 2 (CPN2) (NM_001291988) Human Tagged ORF Clone
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)



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ORF Nucleotide Sequence:

>RC238832 representing NM_001291988
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCCCTGGAGCCTGGCTGCTCTGGACCTCCCTCCTGCTCCTGGCCAGGCCTGCCAGCCTGTCCCA
 TGGGTTGTGACTGCTTCGTCCAGGAGGTGTTCTGCTCAGATGAGGAGCTTGCCACCGTCCCACTGGACAT
 CCCGCCATATACAAAAACATCATCTTTGTGGAGACCTCGTTCACCACATTGAAACCAGAGCTTTTGGC
 AGTAACCCCAACTTGACCAAGGTGGTCTTCTCAACACTCAGCTCTGCCAGTTTAGGCCGGATGCCTTCG
 GGGGGTGGCCAGGCTGGAGGACCTGGAGGTACAGGCAGTAGCTTCTGAACCTCAGCACCAACATCTT
 CTCCAACCTGACCTCGCTGGGCAAGCTCACCTCAACTTCAACATGCTGGAGGCTCTGCCGAGGGTCTT
 TTCCAGCACCTGGCTGCCCTGGAGTCCCTCCACCTGCAGGGGAACAGCTCCAGGCCCTGCCAGGAGGC
 TCTTCCAGCCTCTGACCATCTGAAGACACTCAACCTGGCCAGAACCTCTGGCCAGCTCCCGGAGGA
 GCTGTTCCACCCACTCACCAGCTGCAGACCTGAAGCTGAGCAACAACGCGCTCTCTGGTCTCCCCAG
 GGTGTGTTTGGCAAACTGGGCAGCTGCAGGAGCTCTTCTGGACAGCAACAACATCTCGGAGCTGCCCC
 CTCAGGTGTTCTCCAGCTCTTCTGCCTAGAGAGGCTGTGGCTGCAACGCAACGCCATCACGCACCTGCC
 GCTCTCCATCTTTGCCTCCCTGGGTAATCTGACCTTTCTGAGCTTGCACTGGAACATGCTTCGGGTCTG
 CCTGCCGGCTCTTTGCCACACCCCGTGCCTGGTTGGCTGTCTCTGACCCATAACCAGCTGGAGACTG
 TCGCTGAGGGCACCTTTGCCACCTGTCCAACCTGCGTTCCCTCATGCTCTCATACAATGCCATTACCCA
 CCTCCCAGCTGGCATCTTCAGAGACCTGGAGGAGTTGGTCAAACCTCTACCTGGGCAGCAACAACCTTACG
 GCGCTGCACCCAGCCCTCTTCAGAACCTGTCCAAGCTGGAGCTGCTCAGCCTCTCCAAGAACCAGCTGA
 CCACACTTCCGGAGGGCATCTTCGACACCACTACAACCTGTTCAACCTGGCCCTGCACGGTAACCCCTG
 GCAGTGCAGCTGCCACCTGGCCTACCTCTTCAACTGGCTGCAGCAGTACACCGATCGGCTCCTGAACATC
 CAGACCTACTGCGCTGGCCTGCCTACCTCAAAGGCCAGGTGGTGGCCGCTTGAATGAGAAGCAGCTGG
 TGTGTCCCGTACCCGGGACCACTTGGGCTTCCAGGTACGTGGCCGGACGAAAGCAAGGAGGGGGCAG
 CTGGGATCTGGCTGTGCAGGAAAGGGCAGCCGGAGCCAGTGCACCTACAGCAACCCCGAGGGCACCGTG
 GTGCTCGCTGTGACAGGGCCAGTGTGCTGGCTGAACGTCCAGCTCTCTCTCAGCAGGGCTCCCTGG
 GACTGCAGTACAATGCTAGTCAGGAGTGGGACCTGAGGTGAGCTGCGGTTCTCTGCGGCTACCGTGTG
 TATCGAGGCTCGGCAGCAGGGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238832 representing NM_001291988
 Red=Cloning site Green=Tags(s)

MLPGAWLLWTSLLLLARPAQPCPMGDCDFVQEVFCSDEELATVPLDIPPYTKNIIFVETSFTTLETRAFG
 SNPNLTKVVFNTQLCQFRPDAFGGLPRLEDLEVTGSSFLNLSNIFSNLTSLGKLTNFMLEALPEGL
 FQHAALESHLQGNQLQALPRRLFQPLTHLKTNLNAQNLLAQLPEELFHPLTSLQTLKLSNNALSGLPQ
 GVFGKLGSLQELFLDSNNISELPPQVFSQLFCLERLWLQRNAITHLPLSIFASLGNTFLSLQWNMLRVL
 PAGLFAHTPCLVGLSLTHNQLETVAEGTFAHLSNLRSLMLSNAITHLPAGIFRDLEELVKLYLGSNNLT
 ALHPALFQNLKLELLSLSKNQLTTLPEGIFDTNYNLFNLALHGNPWQCDCHLAYLFWNLQQYTDRLLNI
 QTYCAGPAYLKQVVPALNEKQLVCPVTRDHLGFQVTPDESKAGGSWDLAVQERAARSQCTYSNPEGTV
 VLACDQAQCRWLVQLSPQQSLGLQYNASQEWDLRSSCGSLRLTVSIEARAAGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001291988

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_001291988.2](#)

RefSeq Size: 3025 bp

RefSeq ORF: 1638 bp

Locus ID: 1370

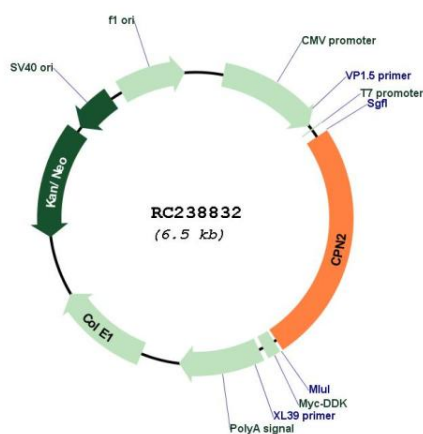
UniProt ID: P22792

Cytogenetics: 3q29

MW: 61 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 RC238832