

Product datasheet for **RG238832**

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:	TurboGFP
Symbol:	Carboxypeptidase N subunit 2
Synonyms:	ACBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG238832 representing NM_001291988.
 Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
 ATGCTCCCTGGAGCCTGGCTGCTCTGGACCTCCCTCCTGCTCCTGGCCAGGCCTGCCAGCCCTGTCCC
 ATGGGTGTGACTGCTTCGTCAGGAGGTGTTCTGCTCAGATGAGGAGCTTGCACCGTCCCACTGGAC
 ATCCCGCCATATACGAAAAACATCATCTTTGTGGAGACCTCGTTACCAATTGGAAACAGAGCTTTT
 GGCAGTAACCCCACTTGACCAAGGTGGTCTTCTCAACACTCAGCTCTGCCAGTTTAGGCCGGATGCC
 TTCGGGGGGCTGCCAGGCTGGAGGACCTGGAGGTACAGGCAGTAGCTTCTGAACCTCAGCACCAAC
 ATCTTCTCAACCTGACCTCGCTGGGCAAGCTCACCTCAACTTCAACATGCTGGAGGCTCTGCCGAG
 GGTCTTTTCCAGCAGCTGGCTGCCCTGGAGTCCCTCCACCTGCAGGGGAACAGCTCCAGGCCCTGCC
 AGGAGGCTCTTCCAGCCTCTGACCCATCTGAAGACACTCAACCTGGCCAGAACCTCTGGCCAGCTC
 CCGGAGGAGCTGTTCCACCACTCACCAGCCTGCAGACCTGAAGCTGAGCAACAACGCGCTCTCTGGT
 CTCCCCAGGGTGTGTTTGGCAAACTGGCAGCCTGCAGGAGCTTCTCTGGACAGCAACAACATCTCG
 GAGCTGCCCCCTCAGGTGTTCTCCAGCTCTTCTGCCTAGAGAGGCTGTGGCTGCAACGCAACGCCATC
 ACGCACCTGCCGCTCTCCATCTTTCCTCCCTGGTAATCTGACCTTTCTGAGCTTGCAAGTGAACATG
 CTTCGGGTCTGCCTGCCGGCTCTTTCGCCACACCCCGTGCCTGGTGGCTGTCTCTGACCCATAAC
 CAGCTGGAGAGCTGCTGCTGAGGGCACCTTTGCCACCTGTCCAACCTGCGTTCCCTCATGCTCTCATAC
 AATGCCATTACCCACCTCCAGCTGGCATCTTCAGAGACCTGGAGGAGTTGGTCAAACCTTACCTGGGC
 AGCAACAACCTTACGGCGCTGCACCCAGCCCTCTTCCAGAACCTGTCCAAGCTGGAGCTGCTCAGCCTC
 TCCAAGAACCAGCTGACCACACTTCCGGAGGGCATCTTCGACACCAACTACAACCTGTTCAACCTGGCC
 CTGCACGGTAACCCCTGGCAGTGCAGCTGCCACCTGGCCTACCTCTTCAACTGGTGCAGCAGTACACC
 GATCGGCTCCTGAACATCCAGACCTACTGCGCTGGCCCTGCCTACCTCAAAGGCCAGGTGGTGGCCGCC
 TTGAATGAGAAGCAGCTGGTGTGTCCCGTCACCCGGGACCACTTGGGCTTCCAGGTACAGTGCCGGAC
 GAAAGCAAGGCAGGGGGCAGCTGGGATCTGGCTGTGCAGGAAAGGCAGCCCGAGCCAGTGACCTAC
 AGCAACCCCGAGGGCACCGTGGTGTCTGCTGTGACAGGCCAGTGTGCTGGTGAACGTCCAGCTC
 TCTCTCAGCAGGGCTCCCTGGGACTGCAGTACAATGCTAGTCAGGAGTGGGACCTGAGGTGAGCTGC
 GGTCTCTGCGGCTCACCGTGTCTATCGAGGCTCGGGCAGCAGGGCCC
 ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG238832
 Blue=ORF Red=Cloning site Green=Tag(s)

MLPGAWLLWTSLLLLARPAQPCPMGCDQFVQEVFCSDEELATVPLDIPPYTKNIIFVETSFTTLETRAF
 GSNPNLTKVVFNTQLCQFRPDAGGLPRLEDLEVTGSSFLNLSTNIFSNLTLGKLTNFMLEALPE
 GLFQHLAALESLHLQGNQLQALPRRLFQPLTHLKTNLQAQNLQAQPELFHPLTSLQTLKSNLALSG
 LPQGVFGKLGSLQELFLDSNNISELPPQVFSQFLCLERLWLQRNAITHLPLSIFASLGNLTFLSLQWNM
 LRVLPAGLFAHTPCLVGLSLTHNQLETVAEGTFAHLSNLRSLMLSNAITHLPAGIFRDLEELVKLYLG
 SNNLTALHPALFQNLKLELLSLSKNQLTTLPEGIFDTNYNLNLALHGNPWQCDCHLAYLFNWLQYQY
 DRLLNIQTYCAGPAYLKGQVVPALNEKQLVCPVTRDHLGFQVTPDESKAGGSWDLAVQERAARSQCTY
 SNPEGTVVLACDQAQCRWLVQVLPQVGLQYNASQEWDLRSSCGSLRLTVSIEARAAGP
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites:

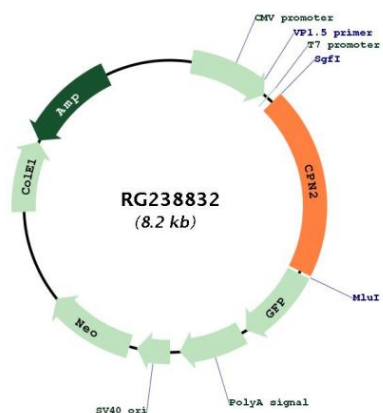
Sgfl-MluI

Cloning Scheme:



ACCN:	NM_001291988
ORF Size:	1659 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).
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 RG238832