

Product datasheet for **RG237896**

Carboxypeptidase B2 (CPB2) (NM_001278541) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carboxypeptidase B2 (CPB2) (NM_001278541) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Carboxypeptidase B2
Synonyms:	CPU; PCPB; TAFI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237896 representing NM_001278541. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGAAGCTTTGCAGCCTTGCAGTCCTTGTACCCATTGTTCTCTTCTGTGAGCAGCATGTCTTCGCGTTT
CAGAGTGGCCAAGTTCTAGCTGCTCTTCTAGAACCTCTAGGCAAGTTCAAGTTCTACAGAATCTTACT
ACAACATATGAGATTGTTCTCTGGCAGCCGTAACAGCTGACCTATTGTGAAGAAAAACAAGTCCAT
TTTTTTGAAATGCATCTGATGTCGACAATGTGAAAGCCATTTAAATGTGAGCGGAATTCATGCAGT
GTCTTGCTGGCAGATGTGAAGATCTTATTCAACAGCAGATTTCCAACGACACAGTCAGCCCCGAGCC
TCCGCATCGTACTATGAACAGTATCACTCACTAAATGAAATCTATTCTTGATAGAAATTTATAACTGAG
AGGCATCCTGATATGCTTACAAAAATCCACATTGGATCCTCATTTGAGAAGTACCCACTCTATGTTTTA
AAGTTTTCTGAAAAGAACAAGCAGCAAAAAATGCCATATGGATTGACTGTGGAATCCATGCCAGAGAA
TGGATCTCTCTGCTTTCTGCTTGTGGTTCATAGGCCATAATCGAATGTGGAGAAAGAACCGTTCTTTC
TATGCCAACATCATTGCATCGGAACAGACCTGAATAGGAACCTTGTCTCCAAACACTGGTGTGAGGAA
GGTGCATCCAGTTCTCATGCTCGGAAACCTACTGTGGACTTTATCCTGAGTCAGAACGAGAAGTGAAG
GCAGTGGCTAGTTTCTTGAGAAGAAATCAACCAGATTAAGCATACATCAGCATGCATTCACTCC
CAGCATAAGTGTTCATATTCCTATACACGAAGTAAAAGCAAAGACCATGAGGAACGTCTCTAGTA
GCCAGTGAAGCAGTTCGTGCTATTGAGAAAATTAGTAAAAATACCAGGTATACACATGGCCATGGCTCA
GAAACCTTATACCTAGCTCCTGGAGGTGGGACGATTGGATCTATGATTTGGGCATCAAATATTCGTTT
ACAATTGAACTTCGAGATACGGGCACATACGGATTCTTGCTGCCGGAGCGTTACATCAAACCCACCTGT
AGAGAAGCTTTTGCCGCTGTCTCTAAAATAGCTTGGCATGTCATTAGGAATGTT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237896
 Blue=ORF Red=Cloning site Green=Tag(s)

MKLCSLAVLVPIVLFCEQHVFAFQSQVLAALPRTSRQVQLQNLTTTYEIVLWQPVTADLIVKKKQVH
 FFVNASDVDNVKAHLNVSGIPCSVLLADVEDLIQQIISNDTVSPRASASYEYHSLNEIYSWIEFITE
 RHPDMLTKIHIGSSFKEYPLYVLKVSQKEQAAKNAIWDICGIHAREWISPAFCLWFIGHNRMRKNRSF
 YANNHCIGTDLNRNFASKHWCEEGASSSSCSETYCYGLYPESEPEVKAVASFLRRNINQIKAYISMHSYS
 QHIVFPYSYTRSKDKDHEELSLVASEAVRAIEKISKNTRYTHGHGETLYLAPGGDDWIYDLGIKYSF
 TIELRDTGTYGFLPERYIKPTCREFAAVSKIAWHVIRNV
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001278541

ORF Size: 1158 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.

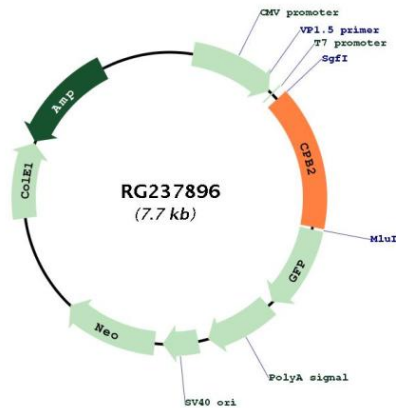
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001278541.1](#), [NP_001265470.1](#)

RefSeq Size: 1655 bp

RefSeq ORF:	1161 bp
Locus ID:	1361
UniProt ID:	Q96IY4
Cytogenetics:	13q14.13
Protein Families:	Druggable Genome, Protease, Secreted Protein
Protein Pathways:	Complement and coagulation cascades
MW:	44.5 kDa
Gene Summary:	Carboxypeptidases are enzymes that hydrolyze C-terminal peptide bonds. The carboxypeptidase family includes metallo-, serine, and cysteine carboxypeptidases. According to their substrate specificity, these enzymes are referred to as carboxypeptidase A (cleaving aliphatic residues) or carboxypeptidase B (cleaving basic amino residues). The protein encoded by this gene is activated by trypsin and acts on carboxypeptidase B substrates. After thrombin activation, the mature protein downregulates fibrinolysis. Polymorphisms have been described for this gene and its promoter region. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013]

Product images:



Circular map for RG237896