

Product datasheet for SC335790

Carboxypeptidase B2 (CPB2) (NM_001278541) Human Untagged Clone

Product data:

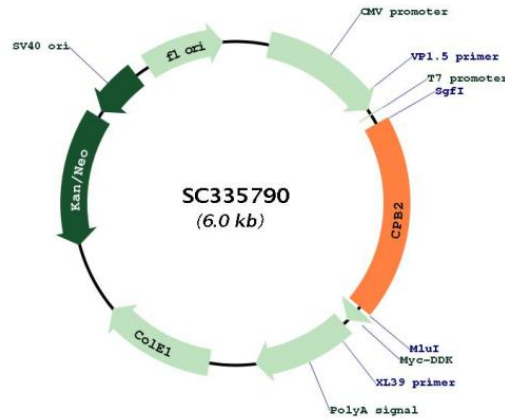
Product Type:	Expression Plasmids
Product Name:	Carboxypeptidase B2 (CPB2) (NM_001278541) Human Untagged Clone
Tag:	Tag Free
Symbol:	CPB2
Synonyms:	CPU; PCPB; TAFI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335790 representing NM_001278541. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGCTTTCAGCCTTGCAGTCCTTGTACCCATTGTTCTCTTCTGTGAGCAGCATGTCTTCGCGTTT
CAGAGTGGCCAAGTTCTAGCTGCTCTTCTAGAACCTCTAGGCAAGTTCAAGTTCTACAGAATCTTACT
ACAACATATGAGATTGTTCTCTGGCAGCCGTAACAGCTGACCTATTGTGAAGAAAAACAAGTCCAT
TTTTTTGTAATGCATCTGATGTCGACAATGTGAAAGCCATTTAAATGTGAGCGGAATTCATGCAGT
GTCTTGCTGGCAGATGTGAAGATCTTATTCAACAGCAGATTTCCAACGACACAGTCAGCCCCGAGCC
TCCGCATCGTACTATGAACAGTATCACTCACTAAATGAAATCTATTCTTGATAGAATTTATAACTGAG
AGGCATCCTGATATGCTTACAAAAATCCACATTGGATCCTCATTTGAGAAGTACCCACTCTATGTTTTA
AAGGTTTTCTGAAAAGAACAAGCAGCAAAAAATGCCATATGGATTGACTGTGGAATCCATGCCAGAGAA
TGGATCTCTCCTGCTTTCTGCTTGTGGTTCATAGGCCATAATCGAATGTGGAGAAAGAACCGTTCTTTC
TATGCCAACATCATTGCATCGGAACAGACCTGAATAGGAACCTTGTCTCCAAACACTGGTGTGAGGAA
GGTGCATCCAGTTCCTCATGCTCGGAAACCTACTGTGGACTTTATCCTGAGTCAGAACAGAAAGTGAAG
GCAGTGGCTAGTTTCTTGAGAAGAAATCAACCAGATTAAAGCATACATCAGCATGCATTCACTCC
CAGCATAAGTGTTCATATTCCTATACACGAAGTAAAAGCAAAGACCATGAGGAACGTCTCTAGTA
GCCAGTGAAGCAGTTCGTGCTATTGAGAAAATTAGTAAAAATACCAGGTATACACATGGCCATGGCTCA
GAAACCTTATACCTAGCTCCTGGAGGTGGGACGATTGGATCTATGATTTGGGCATCAAATATTCGTTT
ACAATTGAACTTCGAGATACGGGCACATACGGATTCTTGCTGCCGGAGCGTTACATCAAACCCACCTGT
AGAGAAGCTTTTGCCGCTGTCTCTAAAATAGCTTGGCATGTCATTAGGAATGTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



[View online »](#)

Plasmid Map:


ACCN: NM_001278541

Insert Size: 1161 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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.

RefSeq: [NM_001278541.1](#)

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 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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the central coding region compared to variant 1. It encodes isoform 2 which is shorter compared to isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.