

Product datasheet for **SC319723**

Carboxypeptidase B2 (CPB2) (NM_001872) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carboxypeptidase B2 (CPB2) (NM_001872) Human Untagged Clone
Tag:	Tag Free
Symbol:	Carboxypeptidase B2
Synonyms:	CPU; PCPB; TAFI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001872.3
 GTTGTACAGAAAATTGCTGTTGGGATGAAGCTTTCAGCCTTGCAGTCTTGTACCCATT
 GTTCTCTTCTGTGAGCAGCATGTCTTCGCGTTTCAGAGTGGCCAAGTTCTAGCTGCTCTT
 CCTAGAACCTCTAGGCAAGTTCAAGTTCTACAGAATCTTACTACAACATATGAGATTGTT
 CTCTGGCAGCCGTAACAGCTGACCTTATTGTGAAGAAAAACAAGTCCATTTTTTTGTA
 AATGCATCTGATGTCGACAATGTGAAAGCCATTTAAATGTGAGCGGAATCCATGCAGT
 GTCTTGTGTCAGACGTGGAAGATCTTATTCAACAGCAGATTTCCAACGACACAGTCAGC
 CCCCAGCCTCCGCATCGTACTATGAACAGTATCACTCACTAAATGAAATCTATTCTTGG
 ATAGAATTTATAACTGAGAGGCATCCTGATATGCTTACAAAAATCCACATTGGATCCTCA
 TTTGAGAAGTACCCACTCTATGTTTTAAAGTTTCTGGAAAAGAACAAGCAGCCAAAAAT
 GCCATATGGATTGACTGTGGAATCCATGCCAGAGAATGGATCTCTCCTGCTTTCTGCTTG
 TGGTTCATAGGCCATATAACTCAATTCTATGGGATAATAGGGCAATATACCAATCTCCTG
 AGGCTTGTGGATTTCTATGTTATGCCGGTGGTTAATGTGGATGGTTATGACTACTCATGG
 AAAAAGAATCGAATGTGGAGAAAAGAACCGTTCTTTCTATGCGAACAATCATTGCATCGGA
 ACAGACCTGAATAGGAACCTTGGCTTCAAACACTGGTGTGAGGAAGGTGCATCCAGTTCC
 TCATGCTCGGAAACCTACTGTGGACTTTATCCTGAGTCAGAACCAGAAGTGAAGGCAAGT
 GCTAGTTTCTTGAGAAGAAATATCAACCAGATTAAGCATAACATCAGCATGCATTCATAC
 TCCCAGCATATAGTGTTCATATTCCTATACACGAAGTAAAAGCAAAGACCATGAGGAA
 CTGTCTCTAGTAGCCAGTGAAGCAGTTCGTGCTATTGAGAAAAGTAAAGTAAATACCAGG
 TATACACATGGCCATGGCTCAGAAACCTTATACCTAGCTCCTGGAGGTGGGGACGATTGG
 ATCTATGATTTGGGCATCAAATATTCGTTTACAATTGAACTTCGAGATACGGGCACATAC
 GGATCTTGTGTCGGGAGCGTTACATCAAACCCACCTGTAGAGAAGCTTTTGGCGCTGTC
 TCTAAAATAGCTTGGCATGTCATTAGGAATGTTAATGCCCTGATTTTATCATTCTGCT
 TCCGTATTTTAAATTTACTGATTCCAGCAAGACCAATCATTGTATCAGATTATTTTTAAG
 TTTTATCCGTAGTTTGTAAAAAGATTTTCTATTCTTGGTTCTGTCAGAGAACCTAAT
 AAGTGCTACTTTGCCATTAAGGCAGACTAGGGTTCATGCTTTTTTACCCTTTAAAAAAA
 TTGTAAGTCTAGTTACCTACTTTTTCTTTGATTTTCGACGTTTACTAGCCATCTCAA
 GCAACTTTCGACGTTTACTAGCCATCTCAAGCAAGTTTGTCAATGATCATCTCAGCT
 GATCATTGGATCCTACTCAACAAAAGGAAGGTGGTCAGAAGTACATTAAGATTCTGCT
 TCCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001872

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001872.3](#), [NP_001863.2](#)

RefSeq Size: 1766 bp

RefSeq ORF: 1272 bp

Locus ID: 1361

UniProt ID: [Q96IY4](#)

Cytogenetics: 13q14.13

Domains: Zn_carbOpept, Propep_M14

Protein Families: Druggable Genome, Protease, Secreted Protein

Protein Pathways: Complement and coagulation cascades

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 (1) represents the longer transcript and encodes the longer 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.