

## Product datasheet for **MR226900**

### **Cpb2 (NM\_019775) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cpb2 (NM_019775) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cpb2
Synonyms:	1110032P04Rik; 4930405E17Rik; AI255929; C; CP; CPR; Cpu; TA; TAFI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR226900 representing NM\_019775  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGCTTCATGGCCTTGAATCCTGGTAGCCATCATCCTCTATGAGCAGCATGGCTTCGCCTTTCAGA  
 GTGGCCAGGTTTTATCTGCTCTTCCAAGAACCTCCAGGCAAGTTCAACTACTTCAGAATCTTACTACAAC  
 GTATGAGGTCGTTCTCTGGCAGCCAGTGACAGCTGAATTCATCGAGAAGAAAAAGGAAGTCCACTTTTTT  
 GTGAATGCGTCTGATGTCGACAGTGTCAAAGCGCATTTAAATGTGAGCAGAATCCATTTAACGTTCTGA  
 TGAACAACGTGGAGGACCTAATTGAACAGCAGACTTTCAATGACACGGTCAGCCCCGCGCTCCGCTTC  
 AACTATGAGCAGTACTCGCTAAATGAAATCTATTCTGGATAGAAGTCATAACTGAACAGCATCCT  
 GACATGCTCCAGAAAATCTACATCGGATCATTCGAGAAGTACCCACTTTATGTTTTAAAGGTCTCAG  
 GAAAGGAACAAAGAAATCAAAAACGCCATCTGGATCGACTGTGGAATCCATGCCAGAGAATGGATTTACC  
 TGCTTTCTGTTTGTGGTTCATAGGCTACGTGACACAATCCATGGGAAAGAAAATCTGTATACCAGACTT  
 CTGAGGCACGTGGATTTCTACATCATGCCCGTGATGAACGTGGATGGCTATGACTACACGTGGAAAAAGA  
 ATCGAATGTGGAGGAAGAACCGCTCTGCTCACAAGAACAACCGCTGCGTGGGCACAGACCTGAACAGGAA  
 CTTGCTTCCAACACTGGTGTGAGAAAGGTGCGTCAAGTTCTCCTGCTCTGAAACCTGCTGTGGACTT  
 TATCCTGAGTCTGAGCCAGAGGTGAAGGCAAGTGGCTGACTTCTTGAAGAATAATCGACCACATTAAG  
 CTTACATCAGTATGCACTCATACTCCCAACAAACTGTTTCCCTATTCTATAACAGAAGCAAAAGCAA  
 GGACCAGAAGAACTGTCTTAGTGGCCAGCGAAGCAGTTCGTGCAATTGAAAGTATTAATAAAACACC  
 AGGTACACACACGGCAGTGGCTCAGAAAGTTTATCTAGCTCCTGGAGGTTCTGACGATTGGATCTATG  
 ATTTGGGCATCAAATATTCGTTTACAATTGAGCTCCGAGATACAGGCAGATACGGATTCTTGCTGCCTGA  
 GAGATACATCAAACCCACTTGTGCAGAAGCTTTGGCCGCATCTCTAAAATAGTTTGGCATGTCATCAGG  
 AACACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226900 representing NM\_019775  
 Red=Cloning site Green=Tags(s)

MKLHGLGILVAIILYEQHGFAFQSGQVLSALPRTSRQVQLLQNLTTTYEVLWQPVTAEFIEKKKEVHFF  
 VNASDVSVKAHLNVSRIIPFNVLMNNVEDLIEQQTFNQTVSPRASASYEYHSLNEIYSWIEVITEQHP  
 DMLQKIYIGSSFKEYPLVYLVKVSQKEQRIKNAIWIDCGIHAREWISPAFCLWFIGYVTQFHGKENLYTRL  
 LRHVDFYIMPVMNVGDYDWTWKNRMWRKNRSAHKNNRCVGTDLNRNFASKHWCEKGASSSSCSETCCGL  
 YPESEPEVKAVADFLRRNIDHIKAYISMHSYSQQILFPYSYNRSKSKDHEELSLVASEAVRAIESINKNT  
 RYTHGSGESLYLAPGGSDDWIYDLGIKYSFTIELRDTGRYGFLLPERYIKPTCAEALAAISKIVHWVIR  
 NT

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9008\\_d03.zip](https://cdn.origene.com/chromatograms/mm9008_d03.zip)

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_019775

ORF Size: 1266 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.

RefSeq: [NM\\_019775.1](#), [NM\\_019775.2](#), [NM\\_019775.3](#), [NP\\_062749.2](#)

RefSeq Size: 1503 bp

RefSeq ORF: 1269 bp

Locus ID: 56373

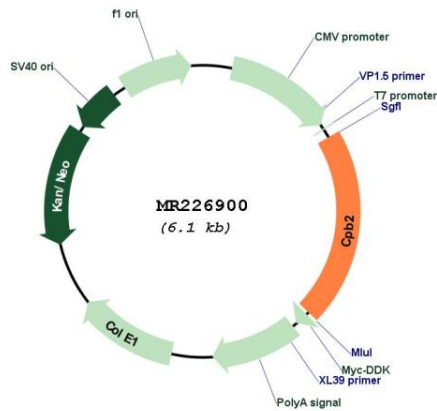
UniProt ID: [Q9JHH6](#)

Cytogenetics: 14 D3

**MW:** 49.3 kDa

**Gene Summary:** This gene encodes carboxypeptidase B, a zinc-dependent metalloprotease that cleaves peptide bonds at the C-terminus of protein substrates. The encoded preproprotein undergoes proteolytic activation to generate a mature, functional enzyme, and secreted into plasma. [provided by RefSeq, Jan 2016]

**Product images:**



Circular map for MR226900