

## Product datasheet for **MR208584**

### Cpne1 (NM\_170590) Mouse Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | Cpne1 (NM_170590) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                  |
| Symbol:                   | Cpne1                                    |
| Synonyms:                 | 1810028N16Rik; mKIAA4108                 |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-Entry (PS100001)                   |
| E. coli Selection:        | Kanamycin (25 ug/mL)                     |



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**ORF Nucleotide Sequence:**

>MR208584 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCATTGCGTGACCTTGGTCCAGCTCTCCGTGTCCTGTGAACATCTCATTGACAAGGACATTGGCT  
 CCAAGTCTGACCCACTCTGCGTCTTTTACAGGATGTGGGCGGGCCCTGGCCGAGCCTTGCCGGACTGA  
 ACGTGTTTCGCAACTGCTCAAGCCCTGAGTTCTCCAAGACTCTGCAGATAGAATACCACTTTGAGACTGTC  
 CAGAAGCTGCGCTTTGGAATCTATGACATAGACAACAAGACACCAGAGCTGGGGGATGACGACTTCTGG  
 GGGGAGCTGAATGTTCCCTAGGTGAGTTGATCCAGCCAGACGCTGACCTTACCCTTGATGTTGAAGCC  
 TGGGAAGCTGCAGGGCGGGGAACCATCACAGTTTCAGCTCAGGAGCTAAAGGACAGCCGTGTAGTAACC  
 ATGGAGGTGGAAGCTAGAAACCTAGATAAGAAGGACTTCTAGGGAAATCTGACCCATTCTGGAGTTCT  
 TCCGGCAAGGCGATGGGAAGTGGCAGCTGGCATACAGAACCGAGGTAGTCAAGAACAACCTGAACCTAC  
 CTGGAAGCGCTTCTCAGTCTCTCTGCAGCATTTCTGTGGCGGGGACCTCAGCACGCCATTACAGGTGCGC  
 TGCTCAGACTATGACAGTGACGGCTCACATGATCTCATTGGTACCTTCCATACTACCTTGGCCCAACTGC  
 AAGCAGTCCCAGGCTGAGTTTGAATGTGTCCACCCTGAAAAGCAGCAGAGAAGAAAAACTACAGGAACTC  
 TGGAACTGTCCGTGTCAAGACTTGCCGGGTGGAGACAGAGTATTCCTTCTGGACTATGTGATGGGAGGC  
 TGCCAGATCAACTTTACTGTGGGTGTGGACTTCACTGGCTCCAATGGCGACCCATCCTCACCTGACTCCC  
 TGCATTATCTGAGCCCTACAGGAGTCAACGAGTATCTGACAGCTCTGTGGAGCGTGGGCAGCGTGGTTCA  
 AGACTATGACTCAGACAAGCTATTTCTGCATTTGGTTTTGGAGCCAGGTGCCCCCTGATTGGCAGGTC  
 TCACATGAGTTTGCCTTGAACCTCAATCCAGTAATCCGATTTGTGAGGATCCAGGGTATCGTCGATG  
 CCTACCGTCAAGCCCTGCCCAAGTTCTGCTCTATGGCCCCACCACTTGCACCCATCATCAACCACGT  
 GGCCAGGTTTGCAGCCCAAGCTGCACAGCAGAGGTGCGCCTCGCAATACTTCGTGCTGTTGCTTTTGACT  
 GACGGTGTGTGACAGATGTGGAGGCCACATGTAAAGCAGTGGTGGAGCCTCAAAGCTGCCATGTCCG  
 TGATCATCGTGGGTGTGGGCGGTGCGGATTTTGGGTCATGGAACAGCTGGATGCAGATGGTGGCCCTCT  
 CCGCACGCGCTCTGGAGAAGCAGCGGCCGAGACATAGTGCAGTTCGTGCCTTATCGACGATTTAGAAT  
 GCTCCCCGGGAGACTCGCACAGACCGTACTCGCCGAAGTGCCCACTCAGATGGTTTCTACTTCAGAG  
 CCCAAGGCTGGGCCCGTTAAAGGCACCTCAACCCAGGCAAGGGCCCCGCACAGGCCCCACAGGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208584 protein sequence  
 Red=Cloning site Green=Tags(s)

MAHCVTLVQLSVSCEHLIDKIDIGSKSDPLCVLLQDVGGAWAEPCTERVRNCSSPEFSKTLQIEYHFETV  
 QKLRFGIYDIDNKTPELGDFFLGAECSLGQIVSSQTLTLPMLKPGKPAGRGITVSAQELKDSRVVT  
 MEVEARNLDKDFLTKSDPFLFFRQGDGKWLAYRTEVVKNNLNPTWKRFVSVLQHFCCGDLSTPIQVR  
 CSDYDSGSHDLIGTFHTLAQLQAVPAEFECVHPEKQQRKKNYRNSGTVRVKTRVETEYSFLDYVMGG  
 CQINFTVGVDFTGSNGDPSSPDSLHYLSPTGVNEYLTALWSVGSVVQDYSDKLFPAFGGAQVPPDWQV  
 SHEFALNFNPSNPYCAGIQGIVDAYRQALPQVRLYGPTNFAPIINHVARFAAQAAQORSASQYFVLLLLT  
 DGAVTDVEATCKAVVDASKLPMSVIIIVGGADFEVMEQLDADGGPLRTRSGEAAARDIVQFVPYRRFQN  
 APRETLAQTVLAEVPTQMVSYFRAQGWAPLKAPPTPGKGAQAPQA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_170590

**ORF Size:** 1611 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\\_170590.1](#), [NM\\_170590.2](#), [NM\\_170590.3](#), [NP\\_733469.1](#)

**RefSeq Size:** 3493 bp

**RefSeq ORF:** 1611 bp

**Locus ID:** 266692

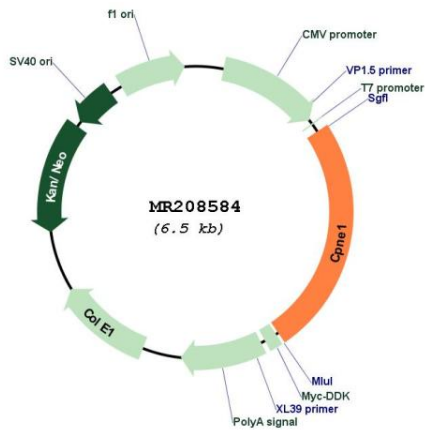
**UniProt ID:** [Q8C166](#)

**Cytogenetics:** 2 H1

**MW:** 58.9 kDa

**Gene Summary:** This gene encodes a protein that contains two N-terminal type II C2 domains and an integrin A domain-like sequence in the C-terminus. Its activity is also upregulated in mouse embryos. This gene and the gene for RNA binding motif protein 12 overlap at map location 2 H2. Two alternatively spliced variants that encode the same isoform have been identified for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for MR208584