

## Product datasheet for **RG206606**

### CPN1 (NM\_001308) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CPN1 (NM_001308) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CPN1
Synonyms:	CPN; SCPN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG206606 representing NM\_001308  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCAGACCTGCTCTCAGTCTTCTCCACCTCCTCCTTCTTCAAGTTGGTTGCCCGGTGACCTTTC  
 GCCACCACCGCTATGATGATCTTGTGCGGACGCTGTACAAGGTGCAAAACGAATGCCCGGCATCACGCG  
 GGTCTACAGCATTGGGCGCAGCGTGGAGGGGAGACACCTCTACGTGCTGGAGTTCAGCGACCACCTGGA  
 ATCCACGAGCCCTTGAACCAGAGGTCAAGTATGTGGGAAACATGCACGGCAACGAAGCGTTGGCCGCG  
 AGCTGATGCTGCAGCTGTCGGAGTTTCTGTGCGAGGAGTCCGGAAACAGGAACCAGCGCATCGTCCAGCT  
 CATCCAGGACACGCGCATTACATCCTGCCATCCATGAACCCCGACGGCTACGAGGTGGCTGCTGCCAG  
 GGCCAAACAAGCCTGGGTATCTAGTTGGCAGGAACAATGCAAAATGGAGTGGACCTGAACCGCAACTTCC  
 CTGATCTCAATACCTATATCTACTATAACGAGAAGTACGGAGGCCCAACCACCCTGCCCTTCCAGA  
 CAACTGGAAAAGTCAGGTGGAACCCGAGACCCGGGCGGTGATCCGGTGGATGCACTCCTTCAACTTTGTT  
 CTTTCAGCCAATCTCCACGGAGGGCGGTGGTGGCCAATTACCCGTATGACAAGTCTTTGAGCACCGGG  
 TCCGAGGGGTCCGCCGACCCGACACCCACGCTGACGACAAGCTCTTCCAGAAGCTGGCCAAAGT  
 CTACTCCTATGCACATGGATGGATGTTCCAAGTTGGAAGTTCGGAGATTACTTCCAGATGGCATCACC  
 AATGGAGCTTCTGGTATTCTCTCAGCAAGGGAATGCAAGACTTTAATTCTCCATACCAACTGCTTTG  
 AGATCACGCTGGAAGTGAAGTTCGCAAGTTTCCCCCGAAGAGGAGTTACAGCGGGAGTGGCTGGGTAA  
 TCGGGAAGCCCTAATCCAGTTCCTGGAACAGGTTACCAGGCATCAAGGAATGGTGTGATGAGAAT  
 TACAATAATCTCGCCAATGCTGTCAATTTCTGTCAAGTGGGATTAACCATGATGTCACTTCAGGTGACCATG  
 GTGATTACTTCCGGCTGCTGCTCCAGGTATCTACACTGTTAGTCCACAGCACCTGGGTATGCCCAGA  
 GACAGTAACTGTGACCGTGGTCTGCGGAACCAACGTTGGTTAACTTCCACCTCAAAGAAGCATCCCT  
 CAAGTAAGCCCTGTGAGGAGAGCTCCACGAGAAGGCACGGAGTCAAGCCAAAGTGCAGCCCAAGCCA  
 GAAAGAAAGAAATGGAGATGAGGCAGCTGCAGAGAGGCCCTGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG206606 representing NM\_001308  
 Red=Cloning site Green=Tags(s)

MSDLLSVFLHLLLLFKLVAPVTFRRHRYDDLVRTLYKVQNECPGITRVYSIGRSVEGRHLYVLEFSDHPG  
 IHEPLEPEVKYVGNMHGNEALGRELMLQLSEFLCEEFRNRNQRIVQLIQDTRIHILPSMNPDGYEVAQAQ  
 GPNKPGYLVGRNNANGVDLNRNFPDLNTYIYYNEKYGGPNHLLPLPDNWKSQVEPETRAVIRWMHSFNFV  
 LSANLHGGAVVANYPYDKSFEHRVVRRTASTPTPDDKLFQKLAKVYSYAHGWMFQGWNCGDYFPDGIT  
 NGASWYSLSKGMQDFNYLHTNCFEITLLELSCDKFPPEEELQREWLGNREALIQFLEQVHQIKGMVLDEN  
 YNNLANAVISVSGINHDTVSGDHGDYFRLLLPGIYTVSATAPGYDPETVTVTVGPAEPTLVNFHLKRSIP  
 QVSPVRRAPSRRHGVRAKVQPQARKKEMEMRQLQRGPA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001308

**ORF Size:** 1374 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\\_001308.2](#), [NP\\_001299.1](#)

**RefSeq Size:** 1756 bp

**RefSeq ORF:** 1377 bp

**Locus ID:** 1369

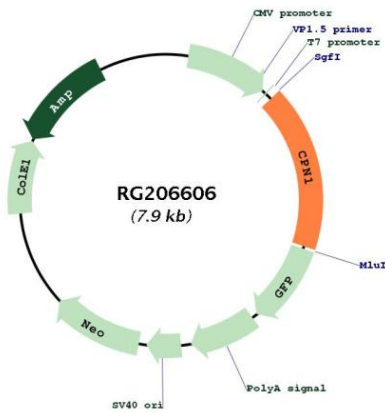
**UniProt ID:** [P15169](#)

**Cytogenetics:** 10q24.2

**Protein Families:** Druggable Genome, Protease, Secreted Protein

**Gene Summary:** Carboxypeptidase N is a plasma metallo-protease that cleaves basic amino acids from the C terminal of peptides and proteins. The enzyme is important in the regulation of peptides like kinins and anaphylatoxins, and has also been known as kininase-1 and anaphylatoxin inactivator. This enzyme is a tetramer comprised of two identical regulatory subunits and two identical catalytic subunits; this gene encodes the catalytic subunit. Mutations in this gene can be associated with angioedema or chronic urticaria resulting from carboxypeptidase N deficiency. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG206606