

## Product datasheet for **SC125560**

### CPN1 (NM\_001308) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CPN1 (NM_001308) Human Untagged Clone
Tag:	Tag Free
Symbol:	CPN1
Synonyms:	CPN; SCPN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001308, the custom clone sequence may differ by one or more nucleotides

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ATGTCAGACCTGCTCTCAGTCTTCTCCACCTCCTCCTTCTCTTCAAGTTGGTTGCCCGGTGACCTTTC
GCCACCACCGCTATGATGATCTTGTGCGGACGCTGTACAAGGTGCAAAACGAATGCCCGGCATCACGCG
GGTCTACAGCATTGGGCGCAGCGTGGAGGGGAGACACCTCTACGTGCTGGAGTTCAGCGACCACCCTGGA
ATCCACGAGCCCTTGAACAGAGGTCAAGTATGTGGGAACATGCACGGCAACGAAGCGTTGGGCCGCG
AGCTGATGCTGCAGCTGTCGGAGTTTCTGTGCGAGGAGTCCGGAACAGGAACCAGCGCATCGTCCAGCT
CATCCAGGACACGCGCATTACATCCTGCCATCCATGAACCCCGACGGCTACGAGGTGGCTGCTGCCAG
GGCCAAACAAGCCTGGGTATCTAGTTGGCAGGAACAATGCAAAATGGAGTGGACCTGAACCGCAACTTCC
CTGATCTCAATACCTATATCTACTATAACGAGAAGTACGGAGGCCCAACCACCCTGCCCTTCCAGA
CAACTGGAAGTCAAGTGGAAACCCGAGACCCGGGCGGTGATCCGGTGGATGCACTCCTTCAACTTTGTT
CTTTCAGCCAATCTCCACGGAGGGGCGGTGGTGGCCAATTACCCGTATGACAAGTCTTTGAGCACCGGG
TCCGAGGGGTCCGCCGCACCGCCAGCACCCACGCTGACGACAAGCTCTTCCAGAAGCTGGCCAAAGT
CTACTCTATGCACATGGATGGATGTTCCAAGTTGGAAGTTCGCGAGATTACTTCCAGATGGCATCACC
AATGGGGCTTCTGGTATTCTCTCAGCAAGGGAATGCAAGACTTAATTATCTCCATACCAACTGCTTTG
AGATCACGCTGGAAGTGAAGTTCGACAAGTTTCCCCCGAAGAGGAGTTACAGCGGGAGTGGCTGGGTAA
TCGGGAAGCCCTAATCCAGTTCCTGGAACAGGTTCAACAGGGCATCAAGGGAATGGTGTGATGAGAAT
TACAATAATCTCGCCAATGCTGTCAATTTCTGTGAGTGGGATTAACCATGATGTCACCTCAGGTGACCATG
GTGATTACTTCCGGCTGTGCTTCCAGGTATCTACACTGTTAGTGCCACAGCACCTGGGTATGACCCAGA
GACAGTAACTGTGACCGTGGTCTGCGGAACCAACGTTGGTAACTTCCACCTCAAAGAAGCATCCCT
CAAGTAAGCCCTGTGAGGAGAGCTCCCAGCAGAAGGCACGGAGTCAGAGCCAAAGTGCAGCCCAAGCCA
GAAAGAAAGAAATGGAGATGAGGCAGCTGCAGAGAGGCCCTGCCTGA

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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_001308 unedited NNNNNGGTCGNAATTTGTATACGACTCATATAGGGCGGCCGCGATTTCAGATCTGGTANCC GGTCCGGAATTCCTGGGATTGCAAAAAACCTTTCAAAGCTTTCTGGATTAGAGAAAGA AAGGGAGTGAGGGAGGAGAGATGAGTGGCTATTCCAGAACGACATAAAGAATTTCCAGCC TTGGACGGACAGCTGGGAACGCTTCCAATTTGGACTGGTGTTCACAAGCGGGAAGCTAG GTGGACCTTGGATTTGGCGGGTGAAGAGGCTAGGTTGTTAAGGAGGTGGGCGCGTGT CAGTGGCTCTCTTGA AAAAGCCAGCAAGATGTCAGACCTGCTCAGTCTTCCTCCAC CTCCTCCTCTCTTCAAGTTGGTTGCCCGGTGACCTTTCCGCCACCACCGCTATGATGAT CTTGTCGGACGCTGTACAAGGTGCAAAACGAATGCCCGGCATCACGCGGTCTACAGC ATTGGGCGCAGCGTGGAGGGGAGACACCTCTACGTGCTGGAGTTCAGCGACCACCCTGGA ATCCACGAGCCCTTGAACAGAGGTCAAGTATGTGGGGAACATGCACGGCAACGAAGCG TTGGGCCGCGAGCTGATGCTGCAGCTGTCGGAGTTTCTGTGCGAGGAGTCCGGAACAGG AACCAGCGCATCGTCCAGCTCATCCAGGACACGCGATTACATCCTGCCATCCATGAAC CCCACNGCTACGAGGTGGCTGCTGCCAGGGCCAAACAAGCCTGGGTATCTAGTTGGC AGGAACAATGCANATGGAGTGGACCTGAACCCGCACTTCCTGATCTCATACCTATATCT ACTATAACGAGAAGTACGGGAGGCCCAACACCACCTGCCCTTTCAGACACTGGNAAAG NNTCAGTGGACCCGAAC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001308
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001308.1</a> , <a href="#">NP_001299.1</a>
<b>RefSeq Size:</b>	1756 bp
<b>RefSeq ORF:</b>	1377 bp
<b>Locus ID:</b>	1369
<b>UniProt ID:</b>	<a href="#">P15169</a>
<b>Cytogenetics:</b>	10q24.2
<b>Protein Families:</b>	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]