

Product datasheet for **SC118995**

Carboxypeptidase H (CPE) (NM_001873) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carboxypeptidase H (CPE) (NM_001873) Human Untagged Clone
Tag:	Tag Free
Symbol:	Carboxypeptidase H
Synonyms:	CPH; IDDHH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118995 sequence for NM_001873 edited (data generated by NextGen Sequencing)

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ATGGCCGGGCGAGGGGGCAGCGCGCTGCTGGCTCTGTGCGGGGCACTGGCTGCCTGCGGG
TGGCTCCTGGGCGCCGAAGCCCAGGAGCCCGGGGCGCCCGCGGGGCATGAGGCGGGCGC
CGGCGGCTGCAGCAAGAGGACGGCATCTCCTTCGAGTACCACCGCTACCCCGAGCTGCGC
GAGGCGCTCGTGTCCGTGTGGCTGCAGTGCACCGCCATCAGCAGGATTTACACGGTGGGG
CGCAGCTTCGAGGGCCGGGAGCTCCTGGTCATCGAGCTGCCGACAACCCCTGGCCTCCAT
GAGCCTGGTGAGCCTGAATTTAAATACATTGGAATATGCATGGGAATGAGGCTGTTGGA
CGAGAACTGCTCATTTTTCTGGCCAGTACCTATGCAACGAATACCAGAAGGGGAACGAG
ACAATTGTCAACCTGATCCACAGTACCCGCATTACATCATGCCTTCCCTGAACCCAGAT
GGCTTTGAGAAGGCAGCGTCTCAGCCTGGTGAACCTCAAGGACTGGTTTGTGGGTCGAAGC
AATGCCAGGGAATAGATCTGAACCGGAACCTTCCAGACCTGGATAGGATAGTGTACGTG
AATGAGAAAGAAGGTGGTCCAAATAATCATCTGTTGAAAAATATGAAGAAAATTGTGGAT
CAAAACACAAAGCTTGTCTGAGACCAAGGCTGTCATTGATTGATTGATATTCCT
TTTGTGCTTTCTGCAATCTCCATGGAGGAGACCTTGTGGCAATTATCCATATGATGAG
ACGCGGAGTGGTAGTGCTCACGAATACAGCTCCTCCCGAGATGACGCCATTTTCCAAAGC
TTGGCCCGGGCATACTCTTTCAACCCGGCCATGTCTGACCCCAATCGGCCACCATGT
CGCAAGAATGATGATGACAGCAGCTTTGTAGATGGAACCAACCGTGGTGGTGTGGTAC
AGCGTACCTGGAGGGATGCAAGACTTCAATTACCTTAGCAGCAACTGTTTTGAGATCACC
GTGGAGCTTAGCTGTGAGAAGTCCCACCTGAAGAGACTCTGAAGACCTACTGGGAGGAT
AACAAAACCTCCCTCATTAGCTACCTTGAGCAGATACACCGAGGAGTTAAAGGATTTGTC
CGAGACCTCAAGTAACCCAATTGCGAATGCCACCATCTCCGTGGAAGGAATAGACCAC
GATGTTACATCCGCAAAGGATGGTACTGAGGATTGCTTATACCTGGAAACTATAAA
CTTACAGCCTCAGCTCCAGGCTATCTGGCAATAACAAAGAAAGTGGCAGTTCTTTACAGC
CCTGCTGCTGGGGTTGATTTTGAACCTGGAGTCATTTTCTGAAAGGAAAGAAGAGGAGAAG
GAAGAATTGATGGAATGGTGGAAAATGATGTCAGAAACTTTAAATTTTTAA

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Clone variation with respect to NM_001873.2

5' Read Nucleotide Sequence: >OriGene 5' read for NM_001873 unedited

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TTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTCCCGGACGCCAT
TTGGCTGTTGACGTGGTCCGAGCCAGCAAATAACGCCAGCAGCCCTCCAGATCCACGC
CGGCCCGTCTCTCCGCCGGCCCCCTCCTCGCAGTGGTTTTCTCTGCAGCTCCCCTGGGCT
CCGCGGCCAGTAGTGCAGCCGTGGAGCCGCGGCTTTGCCCGTCTCCTCTGGGTGGCCCC
AGTGCCGGGGTACACTCATTACGCCGGGAAGGTGAGGCGAGTAGAGGCTGGTGGCGGA
ACTTGCCGCCCCAGCAGCGCCGGCGGGTAAGCCCAGGGCCGGGACAGAAAAGAGGCC
GCCCGCGTAAGAAGGCACGGCCGGCGGGCGGAGCGCATCGATGGCCGGGCGAGGGGGC
AGCGCGTGTGGCTCTGTGCGGGCACTGGCTGCCTGCCGGTGGCTCCTGGGCGCGGAA
GCCAGGAGCCCGGGCGCCCGCGGGCATGAGGCGGCGCGGCGGCTGCAGCAAGAG
GACGGCATCTCCTTCGAGTACCACCGCTACCCCGAGCTGCGCGAGGCGCTCGTGTCCGTG
TGGCTGCAGTGCACCGCCATCAGCAGGATTTACACGGTGGGGCGCAGCTTCGAGGGCCGG
GAGCTCCTGGTCATCGAGCTGTCCGACAACCCCTGGCGTCCATGAGCCTGGTGGCCTGAA
TTTAAATACATTGGAATATGCATGGGAATGAGGCTGTTGGACGAGAAGTCTCATTNTC
TTGCCAGTACCCTATGCACGAATACCAGAGGGGAACGAGACANNGTCCACCTGATCACA
GTACCCGATTACATCATGCCTTCCCTGAAACCAGATGCT

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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001873 unedited</p> <pre> TAGTCGAGTTTTTTTTCTTTTTTAACTTTTATTTCATTGCAATTCTGGGCCA CTCTACAACCAAGAGAAAACCTAAACTTTTAAGTAGTGTAAACGGACTACATAATATA TAGTATTGCTCCTATATGTACAAGCAAGAAGTCAATTTTTATTCTTTTCATAAACCTCT TTGTAACATGTACTTTTCTCCCATCAAAAATGCATTAACAAGATCATGCTTATAGTT AGTCAGCACAAGAAAAAACGACAATTTATACTGAATAATTAAGTCTTGACGATAGAGTG CTCACAACCTCCGAGCTGTATCTGTTAACCTTTTCAATAGCATTTCATTATGTGACATTGTC ACCAATTACAGTAAAAGAACTTCACTAATTTTTGAAAGCTAGAATTACTCAAAAATTCT GCATTGTAATAATACCAGGAATATTGCATTTAAGCCTAGGATGGCAAAATTACTTAAAT CTTTTCTATACTTTTTGTGTAATATAGGTAGGAAAATGAATACTATATAAGAGAATGAA ATATATCAAGTCTTTATATTTTTACCTAAGAGGCTATTTATCTTAAGGAAAGTTGATTA ATATTTAATGATTAATAATAATCAATGTTAGGATTAAGTGCACAAAATCTAAAAAAGA CACCTTACATCACTACTTATATAGATAGATTTAAAGCAGCTACCTAGAGCCCTTTTAA AAATTAAGTTTTGGACNTATTTCCACCATTCAATGTTTCTCCTCCTTCTTTCT TTAAAAAAGGACTCCCTTCAAAACAACCCCAACAGCAGGGCTGTAAGAACCGCCACCTTT CTTTGTTTTCGCCAATACCCGGAAGTGAAGCCTGAAGTATAATTTCAAGGGTTAACACA TTCCACATAATCCCATCTCTGGGAAGTAACACGTGGGCTTTTCTTTCACGGGAATGGG GGCTCCCAATTGCGTTCCTCTAAGAGCCGGGACAATCTTTATACTCTCGCGGATTTGTC TAGGACACAAGAGGGGAATNTTTGTTCCCTCAAAGATCCTCAGATTCTTCGCGGGAGAC TCTC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001873
Insert Size:	2560 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_001873.1 , NP_001864.1
RefSeq Size:	2443 bp
RefSeq ORF:	1431 bp
Locus ID:	1363
UniProt ID:	P16870
Cytogenetics:	4q32.3
Domains:	Zn_carbOpept
Protein Families:	Druggable Genome, Protease, Secreted Protein
Protein Pathways:	Type I diabetes mellitus
Gene Summary:	<p>This gene encodes a member of the M14 family of metalloproteinases. The encoded preproprotein is proteolytically processed to generate the mature peptidase. This peripheral membrane protein cleaves C-terminal amino acid residues and is involved in the biosynthesis of peptide hormones and neurotransmitters, including insulin. This protein may also function independently of its peptidase activity, as a neurotrophic factor that promotes neuronal survival, and as a sorting receptor that binds to regulated secretory pathway proteins, including prohormones. Mutations in this gene are implicated in type 2 diabetes. [provided by RefSeq, Nov 2015]</p>