

Product datasheet for **RG208791**

Carboxypeptidase H (CPE) (NM_001873) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carboxypeptidase H (CPE) (NM_001873) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Carboxypeptidase H
Synonyms:	CPH; IDDHH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208791 representing NM_001873
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCGGGCGAGGGGGCAGCGCCTGCTGGCTCTGTGCGGGGCACTGGTGCCTGCGGGTGGCTCCTGG
 GCGCCGAAGCCAGGAGCCCGGGGCGCCCGCGGGGCATGAGGCGGCGCCGCGGCTGCAGCAAGAGGA
 CCGCATCTCCTTCGAGTACCACCCTACCCGAGCTGCGCGAGGCGCTCGTGTCCGTGTGGCTGCAGTGC
 ACCGCCATCAGCAGGATTTACACGGTGGGGCGCAGCTTCGAGGGCCGGGAGCTCCTGGTCACTCGAGCTGT
 CCGACAACCTGGCGTCCATGAGCCTGGTGAAGCTGAATTTAAATACATTGGGAATATGCATGGGAATGA
 GGCTGTTGGACGAGAAGTCTCATTCTTGGCCAGTACCTATGCAACGAATACCAGAAGGGGAACGAG
 ACAATTGTCAACCTGATCCACAGTACCCGATTACATCATGCCTTCCCTGAACCCAGATGGCTTTGAGA
 AGGCAGCGTCTCAGCCTGGTGAAGTCAAGGACTGGTTTGGTGAAGCAATGCCAGGGAATAGATCT
 GAACCGGAACTTCCAGACCTGGATAGGATAGTGTACGTGAATGAGAAAGAAGGTGGTCCAATAATCAT
 CTGTTGAAAAATATGAAGAAAATTTGGGATCAAAAACAAAAGCTTGTCTCCTGAGACCAAGGCTGTCAATC
 ATTGGATTATGGATATTCCTTTTGTGCTTCTGCAATCTCCATGGAGGAGACCTTGTGGCAATATATCC
 ATATGATGAGACGCGGAGTGGTAGTGCTCACGAATACAGCTCCTCCCGAGATGACGCCATTTTCAAAGC
 TTGGCCCGGGCATACTCTTCTTCAACCCGGCCATGTCTGACCCCAATCGGCCACCATGTGCAAGAATG
 ATGATGACAGCAGCTTTGTAGATGGAACCAACCGTGGTGGTGTGGTACAGCGTACCTGGAGGGATGCA
 AGACTTCAATTACCTTAGCAGCAACTGTTTTGAGATCACCGTGGAGCTTAGCTGTGAGAAGTTCCCACT
 GAAGAGACTCTGAAGACCTACTGGGAGGATAACAAAACTCCCTCATTAGCTACCTTGAGCAGATACACC
 GAGGAGTTAAAGGATTTGCCGAGACCTCAAGGTAACCAATTGCGAATGCCACCATCTCCGTGGAAGG
 AATAGACCACGATGTTACATCCGCAAAGGATGGTACTGGAGATTGCTTATACCTGGAAACTATAAA
 CTTACAGCCTCAGCTCCAGGCTATCTGGCAATAACAAAGAAAGTGGCAGTTCTTACAGCCTGCTGCTG
 GGGTTGATTTGAACTGGAGTCAATTTCTGAAAGGAAAGAAGGAGAGAAGGAAGAATTGATGGAATGGT
 GAAATGATGTCAGAACTTTAAATTTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208791 representing NM_001873
 Red=Cloning site Green=Tags(s)

MAGRGGALLALCGALACGWLLGAEAQEPGAPAAAGMRRRRRLQQEDGISFEYHRYPELREALVSVWLQC
 TAISRIYTVGRSFEGRELLVIELSDNPGVHEPGEPEFKYIGNMHGNEAVGRELLIFLAQYLCNEYQKQNE
 TIVNLIHSTRIHIMPSPNPDGFEKAASQPGELKDFVGRSNAQIDLNRNFPDLDRIVVYVNEKEGGPNNH
 LLKNMKKIVDQNTKLAPETKAVIHWIMDIPFVLSANLHGGDLVANYPYDETRSGSAHEYSSPDDAIFQS
 LARAYSSFNPAMSDPNRPPCRKNDDSSFDGTTNGGAWYSVPGMQDFNYLSSNCFEITVELSCEKFPF
 EETLKTYWEDNKNSLISYLEQIHRGVKGFVRDLQGNPIANATISVEGIDHDVTSAKDGDYWRLLIPGNYK
 LTSAPGYLAITKKVAVPYSPAAGVDFELESFSEKKEEKEELMEWWMSETLNF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001873

ORF Size: 1428 bp

OTI Disclaimer: 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.

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.

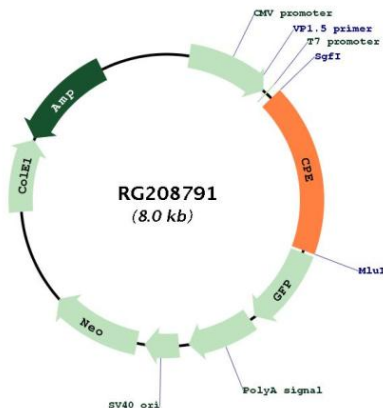
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001873.4](#)
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:

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]

Product images:



Circular map for RG208791