

Product datasheet for **MC216440**

Cpe (NM_013494) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cpe (NM_013494) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cpe
Synonyms:	CP; CPH; Cph-; Cph-1; Cph1; fat; NF-a; NF-alpha1; R74677
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >MC216440 representing NM_013494
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGGGCGCGGAGGACGGGTGCTGCTGGCGCTGTGTGCCGCGCTGGTGGCCGGCGGGTGGCTGCTGA
 CGGCTGAAGCCCAGGAGCCCGGGGCGCCAGCGGCTGGCATGAGGCGCCGCGCGGCTCCAGCAAGAGGA
 CGGCATCTCCTTCGAGTACCACCCTATCCAGAGCTGCGCGAGGCGCTGGTGTCCGTATGGCTGCAGTGC
 ACCGCCATCAGCAGAATCTACACAGTGGGGCGCAGCTTCGAGGGCCGGGAGCTCCTGGTCATCGAGCTGT
 CTGACAACCCCGGGTCCATGAGCCGGGTGAACCTGAATTTAAATACATTGGGAACATGCATGGTAATGA
 GGCGGTTGGACGGGAAGTCTTATTTTCTGGCCAGTACCTGTGAACGAGTACCAGAAAGGCAATGAG
 ACAATTGTCAACCTGATCCACAGCACCCGAATTCATATCATGCCCTCCTTGAACCCGACGGCTTTGAGA
 AAGCCGCATCGACCCCGCGAGCTGAAGGACTGGTTTGTGGCCGCGAGCAACGCCAGGGAATAGATCT
 GAACCGTAACCTCCAGACCTGGACAGGATCGTGTATGTTAATGAGAAAGAAGGGGCTCCTAACAATCAC
 CTGCTGAAGAATCTGAAGAAAATTGTGGACAAAATTCAAAGCTTGCCCCGAGACCAAGGCTGTCAATC
 ACTGGATCATGGACATTCATTTGTGCTTTCTGCCAATCTGCACGGAGGAGACCTTGTGGCTAATTACCC
 ATATGATGAGACACGGAGCGGACTGCTCACGAATACAGTTTCTGCCCTGATGACGCAATTTTCAAAGC
 TTGGCTCGCGCTACTCTTTTCAACCCAGTCATGTCTGACCCCAATCGACCTCCCTGTGCAAGAATG
 ACGATGACAGCAGCTTTGTAGATGGAACGACCAATGGTGGTGCATGGTACAGCGTCCCGGTGGAATGCA
 AGACTTCAATTACCTGAGCAGCAACTGCTTCGAGATCACTGTGGAGCTTACCTGTGAGAAGTTCCACCCG
 GAAGAGACTCTCAAAGCTACTGGGAAGATAACAAAACTCCCTCATCAGCTACCTGGAGCAGATACACC
 GAGGTGTTAAAGGGTTTGTCCGTGACCTCAGGGTAACCCGATTGCCAACGCAACCATCTCTGTGGACGG
 GATAGACCATGATGTACCTCGGCTAAGGATGGGGATTACTGGCGATTGCTTGGCTGGAAACTATAAA
 CTTACAGCCTCCGCTCCTGGCTACCTGGCAATCACAAGAAAGTGGCAGTTCTTTTAGCCCTGCTGTTG
 GGGTGGACTTTGAGCTTGAGTCTTTCTCTGAAAGGAAGGAGGAGGAGAAGGAAGAATTGATGGAGTGGT
 GAAAATGATGTCAGAACTTTGAATTTT**TAA**

ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_013494

Insert Size: 1431 bp

OTI Disclaimer: 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).

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_013494.4, NP_038522.2](#)

RefSeq Size: 2183 bp

RefSeq ORF: 1431 bp

Locus ID: 12876

UniProt ID: [Q00493](#)

Cytogenetics: 8 32.3 cM

Gene Summary: This gene encodes carboxypeptidase E, a prohormone-processing exopeptidase found in secretory granules of endocrine and neuroendocrine cells. The encoded preproprotein undergoes proteolytic processing to generate a mature, functional enzyme that cleaves the C-terminal basic residues of protein substrates. A missense mutation in this gene is responsible for the obesity phenotype in a mouse model known as the "fat mouse." Mice lacking the functional product of this gene exhibit impaired processing of multiple peptide hormones such as proinsulin, prodynorphin, proneurotensin, promelanin-concentrating hormone and pro-opiomelanocortin. [provided by RefSeq, Jan 2016]