

Product datasheet for MR206658

Cpa1 (NM_025350) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Cpa1 (NM_025350) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Cpa1
 Synonyms: 0910001L12Rik; Cpa
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR206658 representing NM_025350
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAAGAGGCTGCTGGTTCTGAGTGTGCTGCTGGCAGCAGTCTTCGGCAATGAGAACTTTGTGGGGCACC
 AGGTTCTCCGAATCTCTGCCACCGACGAAGCCAGGTGCAGAAAGTGAGGGAGCTGGAGGAGTTGGAGCA
 CTTGAAGTTGGACTTCTGGCGGGACCCTGCCCGGGCTGGTCTCCCATCGATGTTTCGAGTGCCCTCCCC
 ACCATCCAGTCCGTGAAAGCATTCTTGAATATCATGATATTAGCTATGAGATCATGATCGAAGATGTGC
 AGTCTCTGCTCGACGAGGAGAAGCAGCAGATGTCCGCCTCCAGGCCAGGGCTCTGTCCACCGATGCTTT
 CAATTATGCCACCTACCATACTCTGGATGAGATCTATGAATTCATGGACCTGCTGGTTACAGAGCACCCA
 CAGCTTGTAAAGCAAGATCCAGATCGGCAGCACCTTTGAAGGTCGTCCCATCAATGTGCTGAAGTTCAGCA
 CTGGAGGGACCAATCGCCAGCAATCTGGATTGACACTGGCATCCATTCCAGGGAGTGGGTCACTCAGGC
 CAGTGGGGTCTGGTTTGCAAAAAGATCACGAAGGACTATGGCCAGGAACCCACCCTCACGGCCATTCTT
 GACAACATGGACATCTTCTGGAGATTGAACTAACCCCTGATGGTTTTGTCTACACCCACAAAACGAATC
 GCATGTGGCGCAAACTCGATCACACACCGAGGGCTCCCTCTGCGTCGGGGTGGACCCCAACAGGAACTG
 GGATGCTGCCTTTGGGATGCCCGGAGCTAGTAGCAACCCCTGCTCAGAACTTACCGTGGCAAGTTTCCC
 AACTCTGAAGTGGAGGTCAAGTCCATCGTGGACTTTGTGACGACCCAGGGAACATCAAGGCCTTCATCT
 CCATCCACAGCTACTCCAGCTCCTTCTTACCCCTATGGCTACACATCAGAACCAGCTCCTGACAAGGA
 GGAGCTGGATCAGCTAGCAAAATCTGCTGTGACAGCCTTGACATCTCTACACGGGACCAAGTTCAAGTAT
 GGCAGTATCATTGATACGATCTATCAAGCCAGTGGGAGCACTATTGACTGGACCTACAGCCAGGGCATCA
 AGTATTCCTTCACTTTTGGAGCTGAGGGACTGGGCTCAGAGGTTTCTGCTGCCTGCCCTCCAGATCAT
 CCCACAGCGGAGGAGACATGGCTGGCCCTTTTGACCATCATGGACCACACTGTCAAACACCCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206658 representing NM_025350
 Red=Cloning site Green=Tags(s)

MKRLLVLSVLLAAVFGNENFVGHQVLRISATDEAQVQKVRELEELHLKLDWRDPARAGLPIDVRVFPF
 TIQSVKAFLEYHDISYEIMIEDVQSLLEEKQMSAFQARALSTDAFNATYHTLDEIYEFMDLLVTEHP
 QLVSKIQIGSTFEGRPINVLKFKSTGGTNRPAIWIDTGIHSREWVTQASGVWFAKKITKDYGQEP LTAIL
 DNMDIFLEIVTNPDPGFVYTHKTNRMWRKTRSHTEGSLCVGVDPNRNWDAAFGMPGASSNPCSETYRGKFP
 NSEVEVKSIIVDFVTSHGNIKAFISIHYSQLLLYPYGYTSEPAPDKEELDQLAKSAVTAL TSLHGTKFKY
 GSIIDTIYQASGSTIDWTYSQGIKYSFTFELRDTGLRGFLLPASQIIPTAETW LALLTMDHTVKHPY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9005_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_025350

ORF Size: 1257 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_025350.4](#)

RefSeq Size: 1578 bp

RefSeq ORF: 1260 bp

Locus ID: 109697

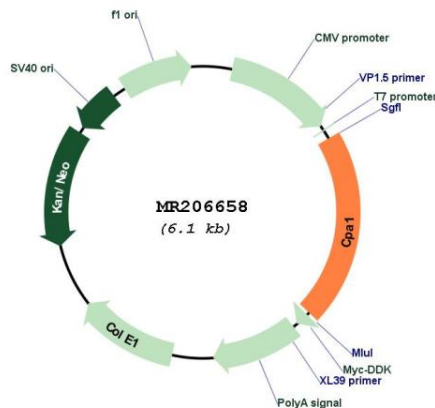
UniProt ID: [Q7TPZ8](#)

Cytogenetics: 6 12.52 cM

MW: 47.8 kDa

Gene Summary: This gene encodes carboxypeptidase A, a zinc-dependent metalloprotease that cleaves peptide bonds at the C-terminus of protein substrates. The encoded preproprotein undergoes proteolytic activation to generate a mature, functional enzyme. This gene is expressed in pancreas, the encoded protein is a major component of digestive enzymes secreted by pancreas and plays an important role in the process of digestion. This gene is located in a cluster of related carboxypeptidase genes on chromosome 6. [provided by RefSeq, Jan 2016]

Product images:



Circular map for MR206658