

CCS cDNA

Catalog Number: ATGD0069

PRODUCT INFORMATION

Catalog number

ATGD0069

Product type

cDNA

Species

Human

NCBI Accession No.

NP_005116.1

Alternative Names

mRNA Refseq

NM_005125.1

OMIM

603864

Chromosome location

11q13

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

825bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

CCS is essential for the incorporation of copper into SOD-1, and therefore is necessary for its enzymatic activity.

CCS cDNA

Catalog Number: ATGD0069

CCS prevents copper ions from binding to intracellular copper scavengers and provides the SOD-1 enzyme with the necessary copper cofactor. CCS escorts copper only to SOD-1 and fails to deliver copper to proteins in the mitochondria, nucleus or secretory pathway. While many tissues express CCS, the chaperone is most abundant in the kidney, liver and Purkinje cells in the neuropil of the central nervous system.

DATA**Sequence nucleotides**

```
ATGGCTTCGG ATTCGGGGAA CCAGGGGACC CTCTGCACGT TGGAGTTCGC GGTGCAGATG ACCTGTCAGA
GCTGTGTGGA CGCGGTGCGC AAATCCCTGC AAGGGGTGGC AGGTGTCCAG GATGTGGAGG TGCACTTGGG
GGACCAGATG GTCTTGGTAC ACACCACTCT ACCCAGCCAG GAGGTGCAGG CTCTCCTGGA AGGCACGGGG
CGGCAGGCGG TACTCAAGGG CATGGGCAGC GGCCAGTTGC AGAATCTGGG GGCAGCAGTG GCCATCCTGG
GGGGGCCTGG CACCGTGCAG GGGGTGGTGC GCTTCCTACA GCTGACCCCT GAGCGCTGCC TCATCGAGGG
AACTATTGAC GGCCTGGAGC CTGGGCTGCA TGGACTCCAC GTCCATCAGT ACGGGGACCT TACAAACAAC
TGCAACAGCT GTGGGAATCA CTTTAACCCT GATGGAGCAT CTCATGGGGG CCCCAGGAC TCTGACCGGC
ACCGCGGAGA CTTGGCAAT GTCCGTGCTG ATGCTGACGG CCGCGCCATC TTCAGAATGG AGGATGAGCA
GCTGAAGGTG TGGGATGTGA TTGGCCGAG CCTGATTATT GATGAGGGAG AAGATGACCT GGGCCGGGGA
GGCCATCCCT TATCCAAGAT CACAGGGAAC TCCGGGGAGA GGTTGGCCTG TGGCATCATT GCACGCTCCG
CTGGCCTTTT CCAGAACCCC AAGCAGATCT GCTCTTGCGA TGGCCTCACC ATCTGGGAGG AGCGAGGCCG
GCCATCGCT GGCAAGGGCC GAAAGGAGTC AGCGCAGCCC CTGCCCACC TTTGA
```

Transaction Sequence

```
MASDSGNQGT LCTLEFAVQM TCQSCVDAVR KSLQGVAGVQ DVEVHLEDQM VLVHTTLPSQ EVQALLEGTG
RQAVLKGMGS GQLQNLGAAV AILGGPGTVQ GVVRFQLTP ERCLIEGTID GLEPGLHGLH VHQYGLTNN CNSCGNHFN
DGASHGGPQD SDRHRGDLGN VRADADGRAI FRMEDEQLKV WDVIGRSLII DEGEDDLGRG GHPLSKITGN SGERLACGII
ARSAGLFQNP KQICSCDGLT IWEERGRPIA GKGRKESAQP PAHL
```