

CENPA cDNA

Catalog Number: ATGD0147

PRODUCT INFORMATION

Catalog number

ATGD0147

Product type

cDNA

Species

Human

NCBI Accession No.

NP_001800.1

Alternative Names

CenH3, CENP-A

mRNA Refseq

NM_001809.3

OMIM

117139

Chromosome location

2p23.3

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

423bp

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 Nde 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

CENPA cDNA

Catalog Number: ATGD0147

Centromeres are the differentiated chromosomal domains that specify the mitotic behavior of chromosomes. CENPA encodes a centromere protein which contains a histone H3 related histone fold domain that is required for targeting to the centromere. CENPA is proposed to be a component of a modified nucleosome or nucleosome-like structure in which it replaces 1 or both copies of conventional histone H3 in the (H3-H4) 2 tetrameric core of the nucleosome particle. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

DATA

Sequence nucleotides

```
ATGGGCCCCGCGCCGCGGAGCCGAAAGCCCGAGGCCCGAGGAGGCGCAGCCCCGAGCCCGACCCCGACCCCGGCCCC  
TCCCGGCGGGGGCCCCTCCTTAGGCGCTTCCTCCCATCAACACAGTCGGCGGAGACAAGGTTGGCTAAAGGAGATCCGAAA  
GCTTCAGAAGAGCACACACCTCTTGATAAGGAAGCTGCCCTTCAGCCGCTGGCAAGAGAAATATGTGTAAATTCACCTCGT  
GGTGTGGACTTCAATTGGCAAGCCCAGGCCCTATTGGCCCTACAAGAGGCAGCAGAAGCATTCTAGTTCATCTCTTTGAGG  
ACGCCTATCTCCTCACCTTACATGCAGGCCGAGTTACTCTCTTCCCAAAGGATGTGCAACTGGCCCGGAGGATCCGGGGCC  
TTGAGGAGGGACTCGGCTGA
```

Transaction Sequence

```
MGPRRRSRKP EAPRRRSPSP TPTPGPSRRG PSLGASSHQH SRRRQGWLKE IRKLQKSTHLLIRKLPFSRL AREICVKFTR  
GVDFNWQAQA LLALQEAAEA FLVHLFEDAY LLTLHAGRVTLPKDVQLAR RIRGLEEGLG
```