

## CENPA cDNA

Catalog Number: ATGD0147

### PRODUCT INFORMATION

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**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

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**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**

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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**

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**Sequence nucleotides**

```
ATGGGCCCCGCGCCGCGGAGCCGAAAGCCCCGAGGCCCGAGGAGGCGCAGCCCCGAGCCCGACCCCGACCCCGGCCCC  
TCCCGGCGGGGCCCCTCCTTAGGCGCTTCTCCCATCAACACAGTCGGCGGAGACAAGGTTGGCTAAAGGAGATCCGAAA  
GCTTCAGAAGAGCACACACCTCTTGATAAGGAAGCTGCCCTCAGCCGCTGGCAAGAGAAATATGTGTAAATTCACCTCGT  
GGTGTGGACTTCAATTGGCAAGCCCAGGCCCTATTGGCCCTACAAGAGGCAGCAGAAGCATTCTAGTTCATCTCTTTGAGG  
ACGCCTATCTCCTCACCTTACATGCAGGCCGAGTTACTCTCTCCCAAAGGATGTGCAACTGGCCCGGAGGATCCGGGGCC  
TTGAGGAGGGACTCGGCTGA
```

**Transaction Sequence**

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