

## CAPZA3 cDNA

Catalog Number: ATGD0495

### PRODUCT INFORMATION

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**Catalog number**

ATGD0495

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_201585.1

**Alternative Names**

CAPPA3, Gsg3

**mRNA Refseq**

NM\_033328.2

**OMIM**

608722

**Chromosome location**

12p12.3

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

900bp

**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**

## CAPZA3 cDNA

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CAPZA3 encodes an actin capping protein, one of the F-actin capping protein alpha subunit family. It is predominantly localized to the neck region of ejaculated sperm, other immunohistochemical signals were found in the tail and postacrosomal regions. CAPZA3 may also form heterodimers of alpha and beta subunits.

### DATA

#### Sequence nucleotides

```
ATGACACTTAGCGTGCTGAGCAGGAAGGACAAGGAAAGAGTAATTCGCAGACTGTTATTACAGGCCCTCCAGGGGAATTT
GTAAATGCCTTTGATGATCTCTGTCTGCTTATCCGTGATGAAAACTTATGCACCACCAAGGTGAGTGTGCAGGCCACCAAC
ACTGCCAAAAATATTCTGTACCACTCTGCATCGATGGAAATCCAGTACTCTTGTCTCACCACAATGTAATGGGCGACTACCGA
TTTTTTGACCATCAAAGCAAACCTTTCTTTCAAATATGACCTGCTTCAAATCAGCTGAAAGACATCCAAAGTCATGGTATCATT
CAGAATGAGGCAGAATACCTGAGAGTTGTTCTTCTGTGCGCCTTAAACTGTATGTGAATGACCACTATCCAAAAGGAAATT
GCAACATGCTGAGAAAACTGTCAAAAGTAAGGAGTACTTGATAGCTTGCATTGAAGATCACAACATGAAACAGGAGAGTG
CTGGAACGGACTTTGGAAATCTAAATGGATTTTCCAAGTTAACCCATTTCTAACCCAAGTAACGGGAAGAATATTTGTGCAAG
CTCACTTCTTCAGGTGTGTCAACCTTCATATTGAAATATCCAAGGACCTGAAAGAAAAGCTTGAAATAGTTAACCAAGCTCAA
CTGGCTCTAAGTTTTGCAAGGCTTGGAAGAGCAAGAGAACAAATTTCAAGCTGCAGTCTTGGAAGAATTACAGGAGTTAT
CCAATGAAGCCCTGAGAAAAATTCTACGAAGGGATCTTCCAGTGACCCGCACTCTTATTGACTGGCACAGGATACTCTCTGA
CTTGAATCTGGTGATGTATCCTAAATTAGGATATGTCATTTATTCAAGAAGTGTGTTGTGCAACTGGATAATATAA
```

#### Transaction Sequence

```
MTLSVLSRKD KERVIRLLL QAPPGFEVNA FDDLCLLIRD EKLMHHQGEK AGHQHCQKYSVPLCIDGNPV LLSHHNVMGD
YRFFDHQSKL SFKYDLLQNN LKDIQSHGII QNEAEYLRVLLCALCLYVN DHYPKGNCNM LRKTVKSKEY LIACIEDHNY
ETGECWNLGW KSKWIFQVNPFLTQVTGRIF VQAHFFRCVN LHIEISKDLK ESLEIVNQAQ LALSFAFLVE
EQENKFQAAVLEELQELSNE ALRKILRRDL PVTRTLIDWH RILSDLNLVM YPKLGYVIYS RSVLCNWII
```