

## ZWINT cDNA

Catalog Number: ATGD0463

### PRODUCT INFORMATION

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**Catalog number**

ATGD0463

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_001005413.1

**Alternative Names**

HZwint-1, KNTC2AP, SIP30, ZWINT1

**mRNA Refseq**

NM\_001005413.1

**OMIM**

609177

**Chromosome location**

10q21-q22

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

693bp

**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**

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ZWINT is involved in kinetochore function although an exact role is not known. It interacts with ZW10, another kinetochore protein, possibly regulating the association between ZW10 and kinetochores. Alternatively spliced transcript variants encoding different isoforms have been found for this gene

### DATA

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#### Sequence nucleotides

```
ATGGAGGCAGCGGAGACAGAGGCGGAAGCTGCAGCCCTAGAGGTCCTGGCTGAGGTGGCAGGCATCTTGGAACCTGTAG
GCCTGCAGGAGGAGGCAGAACTGCCAGCCAAGATCCTGGTTGAGTTTGTGGTGGACTCTCAGAAGAAAGACAAGCTGCTC
TGCAGCCAGCTTCAGGTAGCGGATTCCTGCAGAACATCCTGGCTCAGGAGGACACTGCTAAGGGTCTCGACCCCTTGGCT
TCTGAAGACACGAGCCGACAGAAGGCAATTGCAGCTAAGGAACAATGGAAAGAGCTGAAGGCCACCTACAGGGAGCACGT
AGAGGCCATCAAAATTGGCCTCACCAAGGCCCTGACTCAGATGGAGGAAGCCCAGAGGAAACGGACACAACCTCCGGAAG
CCTTTGAGCAGCTCCAGGCCAAGAAACAAATGGCCATGGAGAAACGCAGAGCAGTCCAGAACCAGTGGCAGCTACAACAG
GAGAAGCATCTGCAGCATCTGGCGGAGGTTTCTGCAGAGGGTAAGCTGTTGTTCCCTGAGGCTGAGGCTGAGGCAGAGAA
TCTTCCAGATGATAAACCCAGCAGCCGACTCGACCCAGGAGCAGAGTACAGGAGACACCATGGGGAGAGACCCTGGTG
TGCCTTCAAGGCTGTTGGTCTACAACCTGCTGGAGATGTAAATTTGCCATGA
```

#### Transaction Sequence

```
MEAAETEAEA AALEVLAEVA GILEPVGLQE EAELPAKILV EFVVDSQKKD KLLCSQLQVADFLQNILAQE DTAKGLDPLA
SEDTSRQKAI AAKEQWKELK ATYREHVEAI KIGLTKALTMEEAQRKRTQ LREAFEQLQA KKQMAMEKRR AVQNQWQLQQ
EKHLQHAEV SAEGKLLFPEAEAEENLPD DKPQPTRPQ EQSTGDTMGR DPGVSFKAVG LQPAGDVNLP
```