

MIS12 cDNA

Catalog Number: ATGD0332

PRODUCT INFORMATION

Catalog number

ATGD0332

Product type

cDNA

Species

Human

NCBI Accession No.

NP_076944.1

Alternative Names

2510025F08Rik, hMis12, KNTC2AP, MTW1

mRNA Refseq

NM_024039.2

OMIM

609178

Chromosome location

17p13.2

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

618bp

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 Hind III. 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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MIS12 is a component of the MIS12 complex, which is required for kinetochore formation during mitosis and normal chromosome alignment and segregation. The MIS12 complex consists of MIS12, DSN1, NSL1 and PMF-1. MIS12 is part of a network of complexes that provide microtubule attachment and generates pulling forces from depolymerization.

DATA

Sequence nucleotides

```
ATGTCTGTGGATCCAATGACCTACGAGGCCAGTTCTTTGGCTTCACGCCACAAACGTGCATGCTTCGGATCTACATTGCAT
TTCAAGACTACCTATTTGAAGTGATGCAGGCCGTTGAACAGGTTATTCTGAAGAAGCTGGATGGCATCCCAGACTGTGACAT
TAGCCCAGTGCAGATTCGCAAATGCACAGAGAAGTTTCTTTGCTTCATGAAAGGACATTTTGATAACCTTTTTAGCAAATGG
AGCAACTGTTTTTGCAGCTGATTTTACGTATTCCTCAAACATCTTGCTTCCTGAAGATAAATGTAAGGAGACACCTTATAGT
GAGGAAGATTTTCAGCATCTCCAGAAAGAAATTGAACAGTTACAGGAGAAGTACAAGACTGAATTATGTACTAAGCAGGCC
TTCTTGCAGAATTAGAAGAGCAAAAAATTGTTCAAGGCCAACTCAAACAGACGTTGACTTTCTTTGATGAGCTTCATAATGTT
GGCAGAGATCATGGGACTAGTGATTTTAGGGAGAGTTTAGTATCCCTGGTTCAGAACTCCAGAAAACACTACAGAACATTAGAG
ACAATGTGGAAAAGGAATCGAAACGACTGAAAATATCTTAA
```

Transaction Sequence

```
MSVDPMTYEA QFFGFTPQTC MLRIYIAFQD YLFEVMQAVE QVILKKLDGI PDCDISPVQI RKCTEKFLCF MKGHFDNLFS
KMEQLFLQLI LRIPSNILLP EDKCKETPYS EEDFQHLQKE IEQLQEKYKT ELCTKQALLA ELEEQKIVQA KLKQTLTFFD
ELHNVGRDHG TSDFRESLVS LVQNSRKLQN IRDNVEKESK RLIKIS
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