

## MXD3 cDNA

Catalog Number: ATGD0331

### PRODUCT INFORMATION

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**Catalog number**

ATGD0331

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_112590.1

**Alternative Names**

BHLHC13, MAD3, MYX

**mRNA Refseq**

NM\_031300.3

**OMIM**

609450

**Chromosome location**

5q35.3

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

621bp

**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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MXD3 encodes a member of the Myc superfamily of basic helix-loop-helix leucine zipper transcriptional regulators. It forms a heterodimer with the cofactor MAX which binds specific E-box DNA motifs in the promoters of target genes and regulates their transcription. Disruption of the MAX-MXD3 complex is associated with uncontrolled cell proliferation and tumorigenesis. Transcript variants of this gene encoding different isoforms have been described.

### DATA

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#### Sequence nucleotides

```
ATGGAACCTTGGCCAGCAACATCCAGGTCCTGCTGCAGGCGGCCGAGTTCCTGGAGCGCCGTGAGAGAGAGGCCGAGCA
TGTTATGCGTCCCTGTGCCCGCATCGCAGTCCAGGCCCATCCACAGGAGGAAGAAGCGACCCCCCAGGCTCCTGGCG
CGCAGGACAGCGGGCGGTTCAGTGCACAATGAACTGGAGAAGCGCAGGAGGGCCAGTTGAAGCGGTGCCTGGAGCGGCT
GAAGCAGCAGATGCCCCTGGGGGCGGACTGTGCCCGGTACACCACGCTGAGCCTGCTGCGCCGTGCCAGGATGCACATCC
AGAAGCTGGAGGATCAGGAGCAGCGGGCCGACAGCTCAAGGAGAGGCTGCGCAGCAAGCAGCAGAGCCTGCAGCGGCA
GCTGGAGCAGCTCCGGGGGCTGGCAGGGGCGGCCGAGCGGGAGCGGCTGCGGGCGGACAGTCTGGACTCCTCAGGCCT
CTCCTCTGAGCGCTCAGACTCAGACCAAGAGGAGCTGGAGGTGGATGTGGAGAGCCTGGTGTGGGGGTGAGGCCGAG
CTGCTGCGGGGCTTCGTCGCCGCCAGGAGCACAGCTACTCGCACGGCGGCGGCCTGGCTATGA
```

#### Transaction Sequence

```
MEPLASNIQV LLQAAEFLE REREAHEGYA SLCPHRSPGP IHRKRRPPQ APGAQDSGRS VHNELEKRRR AQLKRCLERL
KQQMPLGADC ARYTTL SLLR RARMHIQKLE DQEQRARQLK ERLRSKQQL QRQLEQLRGL AGAERERLR ADSLDSSGLS
SERSDSDQEE LEVDVESLVF GGEAELLRGF VAGQEHSYSH GGGAWL
```