

MXD3 cDNA

Catalog Number: ATGD0331

PRODUCT INFORMATION

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

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

Sequence nucleotides

```
ATGGAACCCCTTGCCAGCAACATCCAGGTCCTGCTGCAGGCGGCCGAGTTCCTGGAGCGCCGTGAGAGAGAGGCCGAGCA
TGGTTATGCGTCCCTGTGCCCCGCATCGCAGTCCAGGCCCATCCACAGGAGGAAGAAGCGACCCCCCAGGCTCCTGGCG
CGCAGGACAGCGGGCGGTCACTGCACAATGAACTGGAGAAGCGCAGGAGGGCCAGTTGAAGCGGTGCCTGGAGCGGCT
GAAGCAGCAGATGCCCCTGGGGGCGGACTGTGCCCCGGTACACCACGCTGAGCCTGCTGCGCCGTGCCAGGATGCACATCC
AGAAGCTGGAGGATCAGGAGCAGCGGGCCCGACAGCTCAAGGAGAGGCTGCGCAGCAAGCAGCAGAGCCTGCAGCGGCA
GCTGGAGCAGCTCCGGGGGCTGGCAGGGGCGGCCGAGCGGGAGCGGCTGCGGGCGGACAGTCTGGACTCCTCAGGCCT
CTCCTCTGAGCGCTCAGACTCAGACCAAGAGGAGCTGGAGGTGGATGTGGAGAGCCTGGTGTGTTGGGGGTGAGGCCGAG
CTGCTGCGGGGCTTCGTCGCCGCCAGGAGCACAGCTACTCGCACGGCGGCGGCGCCTGGCTATGA
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Transaction Sequence

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