

## MSC cDNA

Catalog Number: ATGD0053

### PRODUCT INFORMATION

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**Catalog number**

ATGD0053

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_005089.2

**Alternative Names**

ABF-1, ABF1, bHLHa22, MYOR

**mRNA Refseq**

NM\_005098.3

**OMIM**

603628

**Chromosome location**

8q21

### 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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This gene is a transcriptional repressor capable of binding an E-box element either as a homodimer or as a heterodimer with E2A in vitro. The encoded protein also forms heterodimers with E2A proteins in vivo. This protein is capable of inhibiting the transactivation capability of E47, an E2A protein, in mammalian cells. This gene is a downstream target of the B-cell receptor signal transduction pathway.

### DATA

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#### Sequence nucleotides

```
ATGTCCACGG GCTCGGTGAG TGATCCGGAG GAGATGGAGC TTCGGGGGCT GCAGCGGGAG TACCCGGTCC
CCGCCTCAA GAGGCCGCC CTCCGCGGCG TAGAGCGCAG CTACGCCTCG CCCAGTGACA ACTCGTCGGC
AGAGGAGGAG GACCCCGACG GCGAGGAGGA GCGCTGCGCT CTGGGCACAG CCGGCAGCGC GGAAGGCTGC
AAGAGGAAGC GGCCCCGTGT GGCTGGGGGC GCGGCGCAG GTGGTAGCGC GGGCGGTGGT GGCAAGAAGC
CCCTCCCGGC CAAGGGCTCA GCCGCAGAGT GCAAGCAGTC GCAGCGGAAC GCGGCCAACG CCCGTGAGCG
TGCCCGGATG CGCGTGCTGA GCAAAGCCTT CTCCAGGCTC AAGACCAGCC TGCCCTGGGT GCCCCCCGAC
ACTAAGCTCT CCAAGCTGGA CACGCTCCGG CTGGCTTCCA GTTACATCGC TCACCTGCGG CAGCTGTTGC
AGGAGGACCG CTATGAGAAC GGCTACGTGC ACCCAGTGAA CCTGACATGG CCATTCTGGG TCTCGGGAAG
ACCGGACTCT GACACCAAAG AAGTTTCCGC AGCCAACAGA CTATGTGGAA CCACCGCTTA A
```

#### Transaction Sequence

```
MSTGVSVDPE EMELRGLQRE YVPVASKRPP LRGVERSYAS PSDNSSAEEE DPDGEEERCA LGTAGSAEGC KRKRPRVAGG
GGAGGSAGGG GKKPLPAKGS AAECKQSQRN AANARERARM RVLSKAFSRL KTSLPWVPPD TKLSKLDTLR LASSYIAHLR
QLLQEDRYEN GYVHPVNLTW PFVVSGRPDS DTKEVSAANR LCGTTA
```