

## GMFB cDNA

Catalog Number: ATGD0058

### PRODUCT INFORMATION

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**Catalog number**

ATGD0058

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_004115.1

**Alternative Names**

GMF

**mRNA Refseq**

NM\_004124.2

**OMIM**

601713

**Chromosome location**

14q22.2

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

429bp

**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**

## GMFB cDNA

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GMFB, also known as GMF, belongs to the GMF subfamily of the larger actin-binding protein ADF family. This protein, which is phosphorylated following phorbol ester stimulation, is important for the nervous system. It causes brain cell differentiation, stimulates neural regeneration and inhibits tumor cell proliferation. Overexpression of GMFB in astrocytes has been shown to enhance brain-derived neurotrophic factor (BDNF) production. GMFB expression is increased by exercise, and the protein is crucial for exercise-induction of BDNF.

### DATA

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#### Sequence nucleotides

```
ATGAGTGAGT CTTTGGTTGT TTGTGATGTT GCCGAAGATT TAGTGGAAAA GCTGAGAAAG TTTCGTTTTTC
GCAAAGAAAC GAACAACGCT GCTATTATAA TGAAGATTGA CAAGGATAAA CGCCTGGTGG TACTGGATGA
GGAGCTTGAG GGCATTTTAC CAGATGAACT TAAAGATGAA CTACCTGAAC GACAACCTCG CTTCATTGTG
TATAGTTATA AATATCAACA TGATGATGGA AGAGTTTTCAT ATCCTCTGTG CTTTATTTTC TCCAGTCCTG TTGGATGTAA
GCCTGAACAA CAGATGATGT ATGCTGGAAG TAAGAATAAG CTAGTCCAGA CAGCTGAACT AACCAAGGTA
TTTGAAATAA GAAATACCGA AGACCTAACT GAAGAATGGT TACGTGAGAA ACTTGGATTT TTTCACTAA
```

#### Transaction Sequence

```
MSESLVCDV AEDLVEKLRK FRFRKETNNA AIIMKIDKDK RLVVLDEELE GISPDELKDE LPERQPRFIV YSYKYQHDDG
RVSYP LCFIF SSPVGCKPEQ QMMYAGSKNK LVQTAELTKV FEIRNTEDLT EEWLREKLG F H
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