

GMFB cDNA

Catalog Number: ATGD0058

PRODUCT INFORMATION

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

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

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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

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
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Transaction Sequence

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