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 neurotrohic 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 TTTCGTTTTC
GCAAAGAAAC GAACAACGCT GCTATTATAA TGAAGATTGA CAAGGATAAA CGCCTGGTGG TACTGGATGA
GGAGCTTGAG GGCATTTCAC CAGATGAACT TAAAGATGAA CTACCTGAAC GACAACCTCG CTTCATTGTG
TATAGTTATA AATATCAACA TGATGATGGA AGAGTTTCAT ATCCTCTGTG CTTTATTTTC TCCAGTCCTG TTGGATGTAA
GCCTGAACAA CAGATGATGT ATGCTGGAAG TAAGAATAAG CTAGTCCAGA CAGCTGAACT AACCAAGGTA
TTTGAAATAA GAAATACCGA AGACCTAACT GAAGAATGGT TACGTGAGAA ACTTGGATTT TTTCACTAA

Transaction Sequence

MSESLVVCDV AEDLVEKLRK FRFRKETNNA AIIMKIDKDK RLVVLDEELE GISPDELKDE LPERQPRFIV YSYKYQHDDG
RVSYPLCFIF SSPVGCKPEQ QMMYAGSKNK LVQTAELTKV FEIRNTEDLT EEWLREKLGF FH