

CBFB cDNA

Catalog Number: ATGD0021

PRODUCT INFORMATION

Catalog number

ATGD0021

Product type

cDNA

Species

Human

NCBI Accession No.

NP_001746.1

Alternative Names

PEBP2B

mRNA Refseq

NM_001755.2

OMIM

121360

Chromosome location

16q22.1

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

549bp

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

CBFB cDNA

Catalog Number: ATGD0021

CBFB, also known as PEBP2B, is the beta subunit of a heterodimeric core-binding transcription factor belonging to the PEBP2/CBF transcription factor family which master-regulates a host of genes specific to hematopoiesis (e. g., RuNX1) and osteogenesis (e. g., RuNX2). This protein is a non-DNA binding regulatory subunit and it allosterically enhances DNA binding by alpha subunit.

DATA

Sequence nucleotides

```
ATGCCGCGCG TCGTGCCCGA CCAGAGAAGC AAGTTCGAGA ACGAGGAGTT TTTTAGGAAG CTGAGCCGCG
AGTGTGAGAT TAAGTACACG GGCTTCAGGG ACCGGCCCCA CGAGGAACGC CAGGCACGCT TCCAGAACGC
CTGCCGCGAC GGCCGCTCGG AAATCGCTTT TGTGGCCACA GGAACCAATC TGTCTCTCCA GTTTTTTCCG
GCCAGCTGGC AGGGAGAACG GCGACAAACA CCTAGCCGAG AGTATGTCGA CTTAGAAAGA GAAGCAGGCA
AGGTATATTT GAAGGCTCCC ATGATTCTGA ATGGAGTCTG TGTTATCTGG AAAGGCTGGA TTGATCTCCA
AAGACTGGAT GGTATGGGCT GTCTGGAGTT TGATGAGGAG CGAGCCCAGC AGGAGGATGC ATTAGCACAA
CAGGCCTTTG AAGAGGCTCG GAGAAGGACA CGCGAATTTG AAGATAGAGA CAGGTCTCAT CGGGAGGAAA
TGGAGGTGAG AGTTTCACAG CTGCTGGCAG TAACTGGCAA GAAGACAACA AGACCCTAG
```

Transaction Sequence

```
MPRVVPDQRS KFENEEFFRK LSRECEIKYT GFRDRPHEER QARFQNACRD GRSEIAFVAT GTNLSLQFFP ASWQGEQRQT
PSREYVDLER EAGKVYLKAP MILNGVCVIW KGWIDLQRLD GMGCLEFDEE RAQQEDALAQ QAFEEARRRT REFEDRDRSH
REEMEVRSQ LLAVTGKKT RP
```