

EDF1 cDNA

Catalog Number: ATGD0052

PRODUCT INFORMATION

Catalog number

ATGD0052

Product type

cDNA

Species

Human

NCBI Accession No.

NP_003783.1

Alternative Names

EDF-1, MBF1

mRNA Refseq

NM_003792.3

OMIM

605107

Chromosome location

9q34.3

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

447bp

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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Endothelial differentiation-related factor 1, also known as EDF1 may regulate endothelial cell differentiation. It has been postulated that the protein functions as a bridging molecule that interconnects regulatory proteins and the basal transcriptional machinery, thereby modulating the transcription of genes involved in endothelial differentiation. Also, EDF1 binds calmodulin through its IQ domain and regulates nitric oxide synthase activity through calmodulin sequestration in the cytoplasm. Though ubiquitously expressed, EDF1 is most abundant in adult liver, heart, adipose tissues, intestine and pancreas.

DATA

Sequence nucleotides

```
ATGGCCGAGA GCGACTGGGA CACGGTGACG GTGCTGCGCA AGAAGGGCCC TACGGCCGCC CAGGCCAAAT  
CCAAGCAGGC TATCTTAGCG GCACAGAGAC GAGGAGAAGA TGTGGAGACT TCCAAGAAAT GGGCTGCTGG  
CCAGAACAAA CAACATTCTA TTACCAAGAA CACGGCCAAG CTGGACCGGG AGACAGAGGA GCTGCACCAT  
GACAGGGTGA CCCTGGAGGT GGGCAAGGTG ATCCAGCAAG GTCGGCAGAG CAAGGGGCTT ACGCAGAAGG  
ACCTGGCCAC GAAAATCAAT GAGAAGCCAC AGGTGATCGC GGACTATGAG AGCGGACGGG CCATACCCAA  
TAACCAGGTG CTTGGCAAAA TCGAGCGGGC CATTGGCCTC AAGCTCCGGG GAAAGGACAT TGGAAAGCCC  
ATCGAGAAGG GGCCTAGGGC GAAATGA
```

Transaction Sequence

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MAESDWDVT VLRKKGPTAA QAKSKQAILA AQRRGEDVET SKKWAAGQNK QHSITKNTAK LDRETEELHH DRVTLEVGKV  
IQQRQSKGL TQKDLATKIN EKQVIADYE SGRAIPNNQV LGKIERAIGL KLRGKDIGKP IEKGPRAK
```