

## PEF1 cDNA

Catalog Number: ATGD0226

### PRODUCT INFORMATION

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**Catalog number**

ATGD0226

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_036524.1

**Alternative Names**

PEF1A, PEFLIN

**mRNA Refseq**

NM\_012392.2

**OMIM**

610033

**Chromosome location**

1p34

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

855bp

**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 Kpn 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**

## PEF1 cDNA

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PEF1 encodes a calcium-binding protein belonging to the penta-EF-hand protein family. The encoded protein has been shown to form a heterodimer with the programmed cell death 6 gene product and may modulate its function in Ca (2+) signaling. Alternative splicing results in multiple transcript variants and a pseudogene has been identified on chromosome 1.

### DATA

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#### Sequence nucleotides

```
ATGGCCAGCTATCCTTACCGGCAGGGCTGCCAGGAGCTGCAGGACAAGCACCAGGAGCCCCTCCGGGTAGCTACTACCC
TGGACCCCCCAATAGTGGAGGGCAGTATGGTAGTGGGCTACCCCCTGGTGGTGGTTATGGGGGTCTGCCCTGGAGGGC
CTTATGGACCACCAGCTGGTGGAGGGCCCTATGGACACCCCAATCCTGGGATGTTCCCCTCTGGAACCTCAGGAGGACCAT
ATGGCGGTGCAGCTCCCGGGGGCCCTATGGTCAGCCACCTCCAAGTTCCTACGGTGCCAGCAGCCTGGGCTTTATGGA
CAGGGTGGCGCCCCCTCCAATGTGGATCCTGAGGCCTACTCCTGGTTCAGTCCGGTGGACTCAGATCACAGTGGCTATATC
TCCATGAAGGAGCTAAAGCAGGCCCTGGTCAACTGCAATTGGTCTTCATTCAATGATGAGACCTGCCTCATGATGATAAACA
TGTTTGACAAGACCAAGTCAGGCCGCATCGATGTCTACGGCTTCTCAGCCCTGTGGAAATTCATCCAGCAGTGAAGAACCT
CTTCCAGCAGTATGACCGGGACCGCTCGGGCTCCATTAGCTACACAGAGCTGCAGCAAGCTCTGTCCCAAATGGGCTACAA
CCTGAGCCCCCAGTTCACCCAGCTTCTGGTCTCCCGCTACTGCCACGCTCTGCCAATCCTGCCATGCAGCTTGACCGCTTC
ATCCAGGTGTGCACCCAGCTGCAGGTGCTGACAGAGGCCTTCCGGGAGAAGGACACAGCTGTACAAGGCAACATCCGGCT
CAGCTTCGAGGACTTCGTCACCATGACAGCTTCTCGGATGCTATGA
```

#### Transaction Sequence

```
MASYPYRQGC PGAAGQAPGA PPGSYYPGPP NSGGQYGSGL PPGGGYGGPA PGGPYGPPAG GGPYGHNPNG
MFPSGTPGGP YGGAAPGGPY GQPPPSSYGA QPGLYGQGG APPNVDPEAY SWFQSVSDSH SGYISMKELK
QALVNCNWSS FNDETCLMMI NMFDKTKSGR IDVYGFSALW KFIQQWKNLF QQYDRDRSGS ISYTELQQAL SQMGYNLSPQ
FTQLLSRYC PRSANPAMQL DRFIQVCTQL QVLTEAFREK DTAVQGNIRL SFEDFVTMTA SRML
```