

POLR2E cDNA

Catalog Number: ATGD0325

PRODUCT INFORMATION

Catalog number

ATGD0325

Product type

cDNA

Species

Human

NCBI Accession No.

NP_002686.2

Alternative Names

hRPB25, hsRPB5, RPABC1, RPB5, XAP4

mRNA Refseq

NM_002695.3

OMIM

180664

Chromosome location

19p13.3

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

633bp

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 Nde I to Hind III. 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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POLR2E encodes the fifth largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. This subunit is shared by the other two DNA-directed RNA polymerases and is present in two-fold molar excess over the other polymerase subunits. An interaction between this subunit and a hepatitis virus transactivating protein has been demonstrated, suggesting that interaction between transcriptional activators and the polymerase can occur through this subunit. A pseudogene is located on chromosome 11.

DATA

Sequence nucleotides

```
ATGGACGACGAGGAGGAGACGTACCGGCTCTGGAAAATCCGCAAGACCATCATGCAGCTGTGCCACGACCGTGGCTATCT
GGTGACCCAGGACGAGCTTGACCAGACCCTGGAGGAGTTCAAAGCCCAATTTGGGGACAAGCCGAGTGAGGGGCGGCCG
CGGCGCACGGACCTCACCGTGCTGGTGGCCACAACGATGACCCACCGACCAGATGTTTGTGTTCTTTCCAGAGGAGCCC
AAGGTGGGCATCAAGACCATCAAGGTGTACTGCCAGCGCATGCAGGAGGAGAACATCACACGGGCTCTCATCGTGGTGCA
GCAGGGCATGACACCCTCCGCCAAGCAGTCCCTGGTCGACATGGCCCCCAAGTACATCCTGGAGCAGTTTCTGCAGCAGGA
GCTGCTCATCAACATCACGGAGCACGAGCTAGTCCCTGAGCACGTCGTCATGACCAAGGAGGAGGTGACAGAGCTGCTGG
CCCGATATAAGCTCCGAGAGAACCAGCTGCCAGGATCCAGGCGGGGGACCCTGTGGCGCGCTACTTTGGGATAAAGCGT
GGGCAGGTGGTGAAGATCATCCGGCCCCAGTGAGACGGCTGGCAGGTACATCACCTACCGGCTGGTGCAGTAG
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Transaction Sequence

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MDDEEETYRL WKIRKTIMQL CHDRGYLVLTQ DELDQTLEEF KAQFGDKPSE GRPRRTDLTV LVAHNDDPTD QMFVFFPEEP
KVGIKTIKVV CORMQEENIT RALIVVQQGM TPSAQSLVD MAPKYILEQF LQELLINIT EHELVPEHV VMTKEEVTELL
ARYKLRENQL PRIQAGDPVA RYFGIKRGQV VKIIRPSETA GRYITYRLVQ
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