

RFC5 cDNA

Catalog Number: ATGD0175

PRODUCT INFORMATION

Catalog number

ATGD0175

Product type

cDNA

Species

Human

NCBI Accession No.

NP_031396.1

Alternative Names

RFC36

mRNA Refseq

NM_007370.5

OMIM

600407

Chromosome location

12q24.23

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

1023bp

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

RFC5 cDNA

Catalog Number: ATGD0175

The elongation of primed DNA templates by DNA polymerase delta and DNA polymerase epsilon requires the accessory proteins proliferating cell nuclear antigen (PCNA) and replication factor C (RFC). RFC, also named activator 1, is a protein complex consisting of five distinct subunits of 140, 40, 38, 37, and 36 kD. This gene encodes the 36 kD subunit. This subunit can interact with the C-terminal region of PCNA. It forms a core complex with the 38 and 40 kDa subunits. The core complex possesses DNA-dependent ATPase activity, which was found to be stimulated by PCNA in an in vitro system. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 9.

DATA

Sequence nucleotides

```
ATGGAGACCTCAGCACTCAAGCAGCAGGAGCAGCCCGCGGCGACCAAGATCAGGAACCTGCCCTGGGTTGAAAAATACCG
GCCACAGACCCTGAATGATCTCATTTCTCATCAGGACATTCTGAGTACCATTGAGAAGTTTATCAATGAAGACCGACTGCCAC
ACTTGCTTCTCTACGGTCCCCCAGGGACAGGCAAGACATCTACCATCCTAGCCTGTGCGAAACAGCTATATAAAGACAAAGA
ATTTGGCTCCATGGTCTTGGAGCTGAATGCTTCAGATGACCGAGGAATAGACATCATTGAGGACCGATCCTGAGCTTTGCT
AGCACAAGGACAATATTTAAGAAAGGCTTTAAGCTAGTGATCTTGGATGAAGCAGACGCCATGACTCAGGACGCCCAGAAT
GCCTTGAGAAGAGTAATTGAGAAATTCACAGAAAATACCAGATTCTGCCTCATCTGTAACATCTGTCAAAGATCATCCCTGC
CTTGCACTCCCGCTGCACGAGGTTTCGGTTCGGTCCCCTGACTCCTGAACATCATGGTTCCCCGCCTGGAACATGTCGTGGA
AGAAGAGAAAAGTTGATATAAGTGAAGATGGAATGAAAGCACTAGTCACTCTTCCAGTGGAGACATGCGTAGGGCTCTGAA
CATTTTGCAGAGCACCAATATGGCCTTTGGGAAGGTGACAGAGGAGACTGTCTACACCTGCACCGGGCACCCGCTCAAGTC
AGACATTGCCAACATCCTGGACTGGATGTTGAATCAAGATTTCAACACAGCCTACAGAAATATTACAGAGTTGAAAACCTCTG
AAGGGGTTGGCACTGCATGATATCCTGACAGAGATACACTTGTTTGTGCATAGAGTTGACTTTCCATCTTCAGTTCGAATACA
TTTATTGACCAAAATGGCAGACATTGAGTACAGGCTTTCTGTTGGCACCAACGAGAAGATCCAGCTGAGCTCCCTCATTGCT
GCATTTCAAGTCACCAGAGACCTGATTGTTGCAGAGGCCTAG
```

Transaction Sequence

```
METSALKQQE QPAATKIRNL PWVEKYRPQT LNDLISHQDI LSTIQKFINE DRLPHLLLYG PPGTGKTSTI LACAKQLYKD
KEFGSMVLEL NASDDRIGDI IRGPILSFAS TRTIFKKGFK LVILDEADAM TQDAQNALRR VIEKFTENTR FCLICNYLSK
IIPALQSRCT RFRFGPLTPE LMVPRLEHVV EEEKVDISED GMKALVTLSS GDMRRALNIL QSTNMAFGKV TEETVYTCTG
HPLKSDIANI LDWMLNQDFT TAYRNITELK TLKGLALHDI LTEIHLFVHR VDFPSSVRIH LLTKMADIEY RLSVGTNEKI
QLSSLIAAFQ VTRDLIVAEA
```