

## RFC5 cDNA

Catalog Number: ATGD0175

### PRODUCT INFORMATION

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**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

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**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**

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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

```
ATGGAGACCTCAGCACTCAAGCAGCAGGAGCAGCCCGCGGGCGACCAAGATCAGGAACCTGCCCTGGGTTGAAAAATACCG
GCCACAGACCCTGAATGATCTCATTCTCATCAGGACATTCTGAGTACCATTGAGTATCAATGAAGACCGACTGCCAC
ACTTGCTTCTCTACGGTCCCCCAGGGACAGGCAAGACATCTACCATCCTAGCCTGTGCGAAACAGCTATATAAGACAAAGA
ATTTGGCTCCATGGTCTTGGAGCTGAATGCTTCAGATGACCGAGGAATAGACATCATTGAGGACCGATCCTGAGCTTTGCT
AGCACAAGGACAATATTTAAGAAAGGCTTTAAGCTAGTGATCTTGGATGAAGCAGACGCCATGACTCAGGACGCCGAGAAT
GCCTTGAGAAGAGTAATTGAGAAATTCACAGAAAATACCAGATTCTGCCTCATCTGTAACATCTGTCAAAGATCATCCCTGC
CTTGCACTCCCGCTGCACGAGGTTTCGGTTCGGTCCCCTGACTCCTGAACATGTTCCCGCCTGGAACATGTCGTGGA
AGAAGAGAAAGTTGATATAAGTGAAGATGGAATGAAAGCACTAGTCACTCTTCCAGTGGAGACATGCGTAGGGCTCTGAA
CATTTTGCAGAGCACCAATATGGCCTTTGGGAAGGTGACAGAGGAGACTGTCTACACCTGCACCGGGCACCCGCTCAAGTC
AGACATTGCCAACATCCTGGACTGGATGTTGAATCAAGATTTACCACAGCCTACAGAAATATTACAGAGTTGAAAACCTCTG
AAGGGGTTGGCACTGCATGATATCCTGACAGAGATACTTGTGTTGTGCATAGAGTTGACTTTCCATCTTCAGTTTGAATACA
TTTATTGACCAAATGGCAGACATTGAGTACAGGCTTTCTGTTGGCACCAACGAGAAGATCCAGCTGAGCTCCCTCATTGCT
GCATTTCAAGTCACCAGAGACCTGATTGTTGCAGAGGCCTAG
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#### Transaction Sequence

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