

Product datasheet for **RG200426**

RFC4 (NM_002916) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFC4 (NM_002916) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RFC4
Synonyms:	A1; RFC37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200426 representing NM_002916 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAAGCATTCTTAAAGGTACATCCATCAGTACTAAACCCCGCTGACCAAGGATCGAGGAGTAGCTG
CCAGTGC GGGAAGTAGCGGAGAGAACAAGAAAGCCAAACCCGTTCCCTGGGTGGAAAAATATCGCCAAA
ATGTGTGGATGAAGTTGCTTTCCAGGAAGAAGTGGTTCAGTGTGAAAAATCTTTAGAAGGAGCAGAT
CTTCCTAATCTCTTGTTTACGGACCACCTGGAAGTGGAAAAACATCCACTATTTTGGCAGCAGCTAGAG
AACTCTTTGGCCTGAACTTTTCCGATTAAGAGTCTTGAGTTAAATGCATCTGATGAACGTGGAATACA
AGTAGTTCGAGAGAAAGTAAAAATTTGCTCAATTAACGTGTGTCAGGAAGTCGCTCAGATGGGAAGCCG
TGTCCGCCTTTAAGATTGTGATTCTGGATGAAGCAGATTCTATGACCTCAGCTGCTCAGGCAGCTTTAA
GACGTACCATGGAGAAGGAGTCGAAAACCCCGATTCTGTCTTATCTGTAACATATGTCAGTCGAATAAT
TGAACCCCTGACCTCTAGATGTTCAAAATTCGCTTCAAGCCTCTGTCAGATAAAATTCACAGCAGCGA
TACTAGACATTGCCAAGAAGGAAAAATGCAAAATTAGTGATGAGGGAATAGCTTATCTTGTTAAAGTGT
CAGAAGGAGACTTAAGAAAAGCCATTACATTTCTCAAAGCGCTACTCGATTAACAGGTGGAAGGAGAT
CACAGAGAAAAGTATTACAGACATTGCTGGGTAATACCAGCTGAGAAAAATTGATGGAGTATTTGCTGCC
TGTCAGAGTGGCTCTTTTGACAACTAGAAGCTGTGGTCAAGGATTTAATAGATGAGGTCATGCAGCAA
CTCAGCTCGTCAATCAACTCCATGATGTGGTGTAGAAAATAACTTATCTGATAAACAGAAAGTCTATTAT
CACAGAAAAAATTGCCGAAGTTGACAAATGCCTAGCAGATGGTGTGATGAACATTTGCAACTCATCAGC
CTTTGTGCAACTGTGATGCAGCAGTTATCTCAGAATTGT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200426 representing NM_002916
 Red=Cloning site Green=Tags(s)

MQAFLKGTSTSTKPP LTKDRGVAASAGSSGENKKAKPVPWVEKYRPKCVDEVAFQEEVVAVLKKSLEGAD
 LPNLLFYGPPGTGKTSTILAAARELFGPELFR LRVLELNASDERGIQVREKVKNF AQLTVSGSRSDGKP
 CPPFKIVILDEADSM T SAAQAALRRTMEKESKTRFCLICNYVSR IIEPLTSRCSKFRFKPLSDKIQQQR
 LLDIAKKENVKISDEGIAYLVKVSEGLRKAITFLQSATRLTGGKEITEKVITDIAGVIPAEKIDGVFAA
 CQSGSFDKLEAVVKDLIDEGHAATQLVNQLHDVVVNNLSDKQKSIITEKLAEVDKCLADGADEHLQLIS
 LCATVMQQLSQNC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002916

ORF Size: 1089 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_002916.2](#)

RefSeq Size: 1427 bp

RefSeq ORF: 1092 bp

Locus ID: 5984

UniProt ID: [P35249](#)

Cytogenetics: 3q27.3

Domains: AAA, AAA

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: DNA replication, Mismatch repair, Nucleotide excision repair

Gene Summary: 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 37 kD subunit. This subunit forms a core complex with the 36 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. Alternatively spliced transcript variants encoding the same protein have been reported. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200426