

Product datasheet for **RC214617**

RFC3 (NM_181558) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFC3 (NM_181558) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RFC3
Synonyms:	RFC38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214617 representing NM_181558 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCTCTGGGTGGACAAGTATCGGCCCTGCTCCTTGGGACGGCTGGACTATCACAAGGAGCAGGCGG
CCCAGCTGCGGAACCTGGTGCAGTGTGGTACTTTCCTCATCTGTTAGTGTACGGACCATCAGGTGCTGG
AAAAAAGACAAGAATTATGTGTATTCTACGTGAACTTTATGGTGTGGAGTGGAAAAATTGAGAATTGAA
CATCAGACCATCACAACCTCCATCTAAAAAATAATTGAAATTAGCACCATTGCAAGTAACCTACCACCTTG
AAGTTAATCCTAGTGATGCTGGAATAGTGACCGAGTAGTCATTGAGGAGATGTTGAAAACAGTGGCACA
ATCACAACAACCTGAAACAACTCTCAAAGGGATTTAAAGTGGTATTATTGACAGAAGTTGACAAACTC
ACCAAAGATGCTCAGCATGCCTTGCAGAAGCAATGGAATAATATGTCTACCTGCAGATTGATCTTGT
GCTGCAATTCTACATCTAAAGTATCCACCTATTCGTAGTAGGTGCTTGGCGGTTTCGTGTGCCTGCTCC
CAGCATTGAAGATATTTGCCACGTGTTATCTACTGTGTGTAAGAAGGAAGGTCTGAATCTTCCTTCAAA
CTGGCTCATAGACTTGCAGAGAAGTCTTGTAGAAATCTCAGAAAAGCCCTGCTTATGTGTGAAGCCTGCA
GAGTGCAACAATATCCTTTTACTGCAGATCAAGAAATCCCTGAGACAGATTGGGAGGTGTATCTGAGGGA
GACTGCAAAATGCTATTGTGAGTCAAGCAACTCCACAAAGGCTCCTTGAAGTTCGTGGAAGGCTGTATGAG
CTTCTAACTCATTGTATTCTCTGAGATAATAATGAAGGCATGTAAGGAGGAATCAAGAAGCTGTGACA
TATTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC214617 representing NM_181558
Red=Cloning site Green=Tags(s)

MSLWVDKYRPCSLGRLDYHKEQAAQLRNLVQCGDFPHLLVYGPSGAGKKTRIMCILRELYGVGVEKLRIE
 HQTITTPSKKKIEIESTIASNYHLEVNPSDAGNSDRVVIQEMLKTVAQSQQLETNSQRDFKVVLLTEVDKL
 TKDAQHALRRTMEKYMSTCRLILCCNSTSKVIPP IRSRCLAVRVPAPSIEDICHVLSTVCKKEGLNLP SQ
 LAHRLAEKSCRNLRKALLMCEACRVQQYPFTADQEIPETDWEVYLRETANAIVSQTPQRLLLEVRGRLYE
 LLTHCIPPEIIMKACKEESRSCDIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8050_h07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181558

ORF Size: 915 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_181558.2](#), [NP_853536.2](#)

RefSeq Size: 1463 bp

RefSeq ORF: 918 bp

Locus ID: 5983

UniProt ID: [P40938](#)

Cytogenetics: 13q13.2

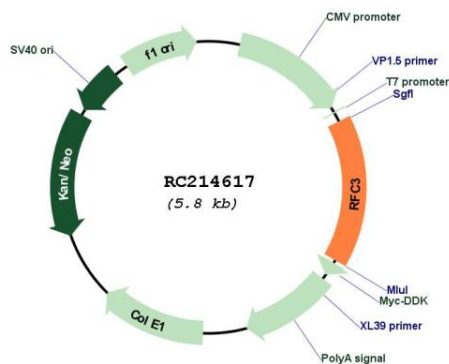
Protein Families: Stem cell - Pluripotency

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

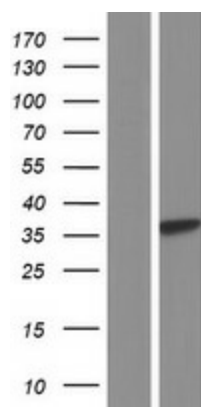
MW: 34.6 kDa

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 kDa. This gene encodes the 38 kDa subunit. This subunit is essential for the interaction between the 140 kDa subunit and the core complex that consists of the 36, 37, and 40 kDa subunits. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC214617



Western blot validation of overexpression lysate (Cat# [LY405704]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214617 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).