

Product datasheet for **SC107306**

RFC3 (NM_181558) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFC3 (NM_181558) Human Untagged Clone
Tag:	Tag Free
Symbol:	RFC3
Synonyms:	RFC38
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_181558, the custom clone sequence may differ by one or more nucleotides

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ATGAGCCTCTGGGTGGACAAGTATCGGCCCTGCTCCTTGGGACGGCTGGACTATCACAAGGAGCAGGCGG
CCCAGCTGCGGAACCTGGTGCAGTGTGGTGACTTTCCTCATCTGTTAGTGTACGGACCATCAGGTGCTGG
AAAAAAGACAAGAATTATGTGTATTCTACGTGAACCTTTATGGTGTGGAGTGGAAAAATTGAGAATTGAA
CATCAGACCATCACAACCTCCATCTAAAAAATAATTGAAATTAGCACCATTGCAAGTAACCTACCCTTG
AAGTTAATCCTAGTGATGCTGGAATAGTGACCGAGTAGTCATTCAGGAGATGTTGAAAACAGTGGCACA
ATCACAACAACCTGAAACAACTCTCAAAGGGATTTTAAAGTGGTATTATTGACAGAAGTTGACAAAACCT
ACCAAAGATGCTCAGCATGCCTTGCGAAGAACCATGGAAAAATATATGTCTACCTGCAGATTGATCTTGT
GCTGCAATTCTACATCTAAAGTGATCCCACCTATTCGTAGTAGGTGCTTGGCGGTTTCGTGTGCCTGTCC
CAGCATTGAAGATATTTGCCACGTGTTATCTACTGTGTGAAGAAGGAAGGTCTGAATCTTCCTTCACAA
CTGGCTCATAGACTTGCAGAGAAGTCTTGTAGAAATCTCAGAAAAGCCCTGCTTATGTGTGAAGCCTGCA
GAGTGCAACAATATCCTTTTACTGCAGATCAAGAAATCCCTGAGACAGATTGGGAGGTGTATCTGAGGGA
GACTGCAAAATGCTATTGTGAGTCAAGAACTCCACAAAGGCTCCTTGAAGTTCGTGGAAGGCTGTATGAG
CTTCTAACTCATTGTATTCTCCTGAGATAATAATGAAGGCATGTAAGGAGGAATCAAGAAGCTGTGACA
TATTCTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_181558 unedited TGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGTCGCGGGAAAACCTGTCTC TGCGTTGTGGGGAGGACGCGCGCTCGCGCGGGATTTTCAAGCGTAGGCCCCCGGGAAC GAGCTGCCATGAGCCTCTGGGTGGACAAGTATCGGCCCTGCTCCTTGGGACGGCTGGACT ATCACAAGGAGCAGGCGGCCAGCTGCGGAACCTGGTGCAGTGTGGTACTTTCTCCTATC TGTTAGTGTACGGACCATCAGGTGCTGGAAAAAAGACAAGAATTATGTGTATTCTACGTG AACTTTATGGTGTGGAGTGGAAAAATTGAGAATTGAACATCAGACCATCACAACCTCCAT CTAAAAAAAATTGAAATTAGCACCATTGCAAGTAACTACCACCTTGAAGTTAATCCTAG TGATGCTGGAAATAGTGACCGAGTAGTCATTCAGGAGATGTTGAAAACAGTGGCACAATC ACAACAACCTTGAACAACTCTCAAAGGGATTTTAAAGTGGTATTATTGACAGAAGTTGA CAAACCTACCAAAGATGCTCAGCATGCCTTGCAGAAACCATGGAAAAATATATNGTCTA CCTGCAGATTGATCTTGTGCTGCAATTCTACATCTAAAGTATCCACCTATTCTAGTA GGTCTTGGCGGGTTCGTGTGCCTGCTCCAGCATTGAAGATATTGCCACGTGTATCT ACTGTGTGAAGAAGGAAGTCTGAAATCTTCTCACAACTGGCTCATAGACTTGAGAGAA GTCTTGTAGAAATCTCAAAAAGCCTGCTNATGTGNTGAGCCTGCANATGCACCATATCC CTTACTGCAGACAAGAAATCCTGAAACAATGGGGAGGG
Restriction Sites:	NotI-NotI
ACCN:	NM_181558
Insert Size:	2550 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_181558.1 , NP_853536.1
RefSeq Size:	1463 bp
RefSeq ORF:	609 bp
Locus ID:	5983
UniProt ID:	P40938
Cytogenetics:	13q13.2
Protein Families:	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 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]

Transcript Variant: This variant (2) differs in the 3' coding region and UTR compared to variant 1. The resulting isoform (2) has a distinct and shorter C-terminus compared to isoform 1.