

Product datasheet for **SC317454**

RFC3 (NM_181558) Human Untagged Clone

Product data:

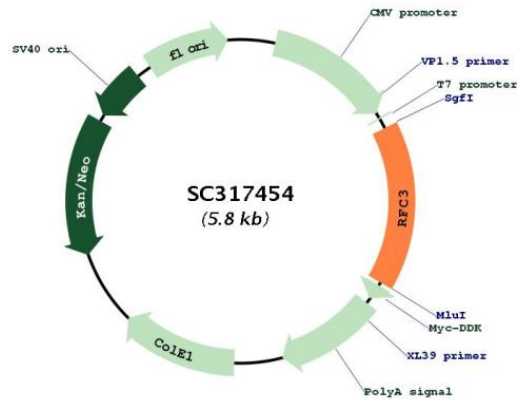
Product Type:	Expression Plasmids
Product Name:	RFC3 (NM_181558) Human Untagged Clone
Tag:	Tag Free
Symbol:	RFC3
Synonyms:	RFC38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317454 representing NM_181558. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGAGCCTCTGGGTGGACAAGTATCGGCCCTGCTCCTTGGGACGGCTGGACTATCACAAGGAGCAGGGC
GCCAGCTGCCGAACCTGGTGCAGTGTGGTGACTTTCTCATCTGTTAGTGTACGGACCATCAGGTGCT
GGAAAAAGACAAGAATTATGTGTATTCTACGTGAACCTTATGGTGTGGAGTGGAAAAATTGAGAATT
GAACATCAGACCATCACAACCTCCATCTAAAAAATAATGAAATTAGCACCATTGCAAGTAACTACCAC
CTTGAAGTTAATCCTAGTGATGCTGAAATAGTGACCGAGTAGTCATTGAGGAGATGTTGAAAACAGTG
GCACAATCACAACAACCTGAAACAACTCTCAAAGGGATTTTAAAGTGGTATTATTGACAGAAGTTGAC
AAACTCACCAAAGATGCTCAGCATGCCTTGCGAAGAACCATGGAAAAATATATGTCTACCTGCAGATTG
ATCTTGTGCTGCAATTCTACATCTAAAAGTATCCACCTATTCGTAGTAGGTGCTTGCGGTTTCGTGTG
CCTGCTCCAGCATTGAAGATATTTGCCAGTGTATCTACTGTGTGTAAGAAGGAAGGTCTGAATCTT
CCTTCACAACCTGGCTCATAGACTTGAGAGAACTTGTAGAAATCTCAGAAAAGCCCTGCTTATGTGT
GAAGCCTGCAGAGTGCAACAATATCCTTTTACTGCAGATCAAGAAATCCCTGAGACAGATTGGGAGGTG
TATCTGAGGGAGACTGCAATGCTATTGTCAGTCAGCAAACTCCCAAAGGCTCCTTGAAGTTCGTGGA
AGGCTGTATGAGCTTCTAACTCATTGTATTCTCTGAGATAATAATGAAGGCATGTAAGGAGGAATCA
AGAAGCTGTGACATATTCGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_181558

Insert Size: 918 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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](#)

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:	34.8 kDa
Gene Summary:	<p>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]</p> <p>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.</p>