

Product datasheet for **SC324375**

RFC5 (NM_181578) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFC5 (NM_181578) Human Untagged Clone
Tag:	Tag Free
Symbol:	RFC5
Synonyms:	RFC36
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_181578.1
 GTAAGTGCAGGGTCTCAGGGTCAGGTCGCGGCTGGTCACTGTGCAGGCGCTTGGGTGAC
 GCGACGATCTCAGCGGATCTGGTCACCTTCGTCTCCCCGCCATGGAGACCTCAGCACTCA
 AGCAGCAGGAGCAGCCCGCGCGACCAAGATCAGGAACCTGCCCTGGGTTGAAAAATACC
 GGCCACAGACCCTGAATGATCTCATTCTCATCAGGACATTCTGAGTACCATTGAGAAGT
 TTATCAATGAAGACCGACTGCCACACTTGCTTCTACGGTCCCCAGGGACAGGCAAGA
 CATCTACCATCTAGCCTGTGCGAAACAGCTATATAAGACAAAGAATTTGGCTCCATGG
 TCTTGGAGCTGAATGCTTCAGATGACCGAGGAATAGACATCATTGAGGACCGATCCTGA
 GCTTTGCTAGCACAAAGACAATATTTAAGAAAGGCTTTAAGCTAGTGATCTTGGATGAAG
 CAGACGCCATGACTCAGGACGCCAGAATGCCTTGAGAAGAGTAATTGAGAAATTCACAG
 AAAATACCAGATTCTGCCTCATCTGTAACATCTGTCAAAGATCATCCCTGCCTTGCACT
 CCCGCTGCACGAGGTTTCGGTTCGGTCCCCTGACTCCTGAACTCATGGTTCCTCCGCTGG
 AACATGTCGTGGAAGAAGAGAAAGTTGATATAAGTGAAGATGGAATGAAAGCACTAGTCA
 CTCTTTCCAGTGGAGACATGCGTAGGGCTCTGAACATTTTGCAGAGCACCAATATGGCCT
 TTGGGAAGGTGACAGAGGAGACTGTCTACACCTGCACCGGGCACCGCTCAAGTCAGACA
 TTGCCAACATCCTGGACTGGATGTTGAATCAAGATTTACCACAGCCTACAGAAATATTA
 CAGAGTTGAAAATCTGAAGGGGTTGGCACTGCATGATATCCTGACAGAGATACACTTGT
 TTGTGCATAGAGTTGACTTTCCATCTTCAGTTCGAATACATTTATTGACCAAAATGGCAG
 ACATTGAGTACAGGCTTTCTGTTGGCACCAACGAGAAGATCCAGCTGAGCTCCCTCATTG
 CTGCATTTCAAGTACCAGAGACCTGATTGTTGCAGAGGCTAGATGCTCTGAGGGCCAT
 TCACAATTTCTCAGGGCTCAGCAGTGTGGGAGAACAGAGGACAGTTCCAGGATAAACTGC
 TGCTGGGGCTGTGGGATGAATCAGTCACCCGAATCTTGAAAAACCCCTTCCAGGAG
 AGGATGGGCAGGCATTTAAAAAGTACCATTTTTGTGGTTGTTGGAGCAGGGATGTACAA
 AATAATTTTAATGATTAATACTACTGCTGCTTTTATAGGGGAAAAAATAACCTTT
 TTTATTTTAAAGTTATAAGGTTTTTACCTTTTAGTTGCTTGGATGACAGGGAATTAGCCT
 ACCCCATTTTGGTCTGGAACAGAAAGACTTTCAAATTTAATATGGTCCAAGTGTCTTCTTA
 CTCAAAGTAAACATTATCTCCAAAATTACATTTATGATTCTAATATTTGGCATTGTGTCT
 GTATCTAATTTAAACAGATGTTAATGGACGTCTGGCCGAAACTATTATACTTTTATAAGA
 TGAGCTGAATCCTTACTTTAAAAACTGGTCTTTTTATTTACCCTCTGTGGTAGAAGAG
 TCACCAGCAGGTTCCAAATTGATGTGTATGATAGGAAAAAACCTTAATTTTAAATATAA
 TATAGAGCCTTAACTATGCCACTGGGTGGCAGAGGCTGTATAAACGCCTTGTTTTCA
 TGCAGGAGCGGGCAAGTAAAGTTGAGCCTGACTGTAAACCTAGAACTGCGGAAGGACTG
 GGACTTTTGTACAAATTTACATTTATTTTACAGCAATCATGCTGCATTTGTGTTAGTGT
 TCTTTATAATAAAAAACAAAGCAGCCTCCTGGCTGGCTGTGTACAAGTACTCTTCCTT
 AGACAGCTAGAAAGATGCTGACTTTGTCAAACCTGCATTTATATGAAAACCTTCTGTCTC
 TAATATCACAGAATAAATTTCTTTAGATGCTGTTCTTTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_181578

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_181578.1](#), [NP_853556.1](#)

RefSeq Size: 2483 bp

RefSeq ORF: 768 bp

Locus ID: 5985

UniProt ID: [P40937](#)

Cytogenetics: 12q24.23

Protein Families: Stem cell - Pluripotency

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

Gene Summary: This gene encodes the smallest subunit of the replication factor C complex, which consists of five distinct subunits (140, 40, 38, 37, and 36 kDa) and is required for DNA replication. This subunit interacts with the C-terminal region of proliferating cell nuclear antigen and is required to open and load proliferating cell nuclear antigen onto DNA during S phase. It is a member of the AAA+ (ATPases associated with various cellular activities) ATPase family and forms a core complex with the 38 and 40 kDa subunits that possesses DNA-dependent ATPase activity. A related pseudogene has been identified on chromosome 9. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2016]
Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region, and uses an alternate start codon, compared to variant 1. The resulting isoform (2) has a distinct and shorter N-terminus, compared to isoform 1. Variants 2 and 3 encode the same isoform (2).