

## Product datasheet for **SC111685**

### **RFC5 (NM\_007370) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RFC5 (NM_007370) Human Untagged Clone
Tag:	Tag Free
Symbol:	RFC5
Synonyms:	RFC36
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_007370, the custom clone sequence may differ by one or more nucleotides

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ATGGAGACCTCAGCACTCAAGCAGCAGGAGCAGCCCGCGGCGACCAAGATCAGGAACCTGCCCTGGGTTG
AAAAATACCGGCCACAGACCCTGAATGATCTCATTCTCATCAGGACATTCTGAGTACCATTGAGAAGTT
TATCAATGAAGACCGACTGCCACACTTGCTTCTCTACGGTCCCCCAGGGACAGGCAAGACATCTACCATC
CTAGCCTGTGCGAAACAGCTATATAAAGACAAAGAATTTGGCTCCATGGTCTTGGAGCTGAATGCTTCAG
ATGACCGAGGAATAGACATCATTGAGGACCGATCCTGAGCTTTGCTAGCACAAGGACAATATTTAAGAA
AGGCTTTAAGCTAGTGATCTTGGATGAAGCAGACGCCATGACTCAGGACGCCAGAATGCCTTGAGAAGA
GTAATTGAGAAATTCACAGAAAATACCAGATTCTGCCTCATCTGTAATCTGTCAAAGATCATCCCTG
CCTTGCACTCCCCTGCACGAGGTTTCGGTTCGGTCCCCTGACTCCTGAACTCATGGTTCCCCGCCTGGA
ACATGTCGTGGAAGAAGAGAAAGTTGATATAAGTGAAGATGGAATGAAAGCACTAGTCACTCTTTCCAGT
GGAGACATGCGTAGGGCTCTGAACATTTTGAGAGCACCACCAATATGGCCTTTGGGAAGGTGACAGAGGAGA
CTGTCTACACCTGCACCGGGCACCCGCTCAAGTCAGACATTGCCAACATCCTGGACTGGATGTTGAATCA
AGATTTACCACAGCCTACAGAAATATTACAGAGTTGAAAACCTCTGAAGGGGTTGGCACTGCATGATATC
CTGACAGAGATACACTTGTGTCATAGAGTTGACTTTCCATCTTCAGTTTCCAATACATTTATTGACCA
AAATGGCAGACATTGAGTACAGGCTTTCTGTTGGCACCAACGAGAAGATCCAGCTGAGCTCCCTCATTGC
TGCAATTCAGTCACCAGAGACCTGATTGTTGCAGAGGCCTAG
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_007370 unedited            GTTCGCATTTGTATACGACTCATATAGGGCGGCCGCGATTTCGGCAGCAGGCTCAGGGTCA            GGTTCGCGGCTGGTCACTGTGCAGGCGCTTGGGTGACGCGACGATCTCAGCGGATCTGGTC            ACCTTCGTCTCCCGCCATGGAGACCTCAGCACTCAAGCAGCAGGAGCAGCCCGCGGCGA            CCAAGATCAGGAACCTGCCCTGGGTTGAAAAATACCGGCCACAGACCCTGAATGATCTCA            TTTCTCATCAGGACATTCTGAGTACCATTGAGAAGTTTATCAATGAAGACCGACTGCCAC            ACTTGCTTCTCTACGGTCCCCCAGGGACAGGCAAGACATCTACCATCCTAGCCTGTGCGA            AACAGCTATATAAAGACAAAGAATTTGGCTCCATGGTCTTGGAGCTGAATGCTTCAGATG            ACCGAGGAATAGACATCATTGAGGACCGATCCTGAGCTTTGCTAGCACAAAGACAATAT            TTAAGAAAGGCTTTAAGCTAGTGATCTTGGATGAAGCAGACGCCATGACTCAGGACGCC            AGAATGCCTTGAGAAGAGTAATTGAGAAATTCACAGAAAATACCAGATTCTGCCTCATCT            GTAACATCTGTCAAAGATCATCCCTGCCTTGCACTCCCGCTGCACGAAGTTTCGGGTCC            GGCCCTGACTCCTGGACTCATGGTTCCCCCGCTGGAACATGTCGTGAAAGAGAGAAAA            TTGATATTAGTAAAAACGGAAGGAAAGCCCTCATCCCTTTTTTCCAGGGGAAACAGGCC            TAGGGGCTCTGAAAATTTTGCAGAACCCCATATGGCCTTTTGGGAAGGGTGACAAGAGA            AACTGGTTAACTTGACCGGCCCCCGTTAAGACAACATCGTCCAACATCTGGGACCG            GTGGCTGAAAACG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_007370 unedited            GAAATTTGNCCGCGGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTA            AAAACAGCATCTAAAGAAAGTTTATTCTGTGATATTAGAGACAGAAGGTTTTTCATATAA            ATGCAAGTTTGACAAAGTCAGCATCTTTCTAGCTGTCTAAGGAAGAGTCACTTGTAAACAC            AGCCAGCCAGGAGGCTGCTTTGTTTTTATTATAAAGAACACTAACACAAATGCAGCATG            ATTGCTGTAAAATAAATGTGAAATTTGTACAAAAGTCCCAGTCTTCCGAGTTCTAGGT            TTACAGTCAGGCTCAACCTTACTTGCCCCGCTCCTGCATGAAAACAAGTGCCTTTTATAC            AGCCTCTGCCACCCAGTGGCATAGTTTAAAGGCTCTATATTATATTTAAAATTAAGTTTT            TTTCTATCATACACATCAATTTGGAACCTGCTGGTGACTCTTCTACCACAGAGGGTAA            TAAAAAGACCAGTTTTTAAAGTAAGAGGATTGAGTCACTTATAAAAAGTATAATAGTTT            CGGCCAGACGTCATTAAACATCTGTTTAAATTAGATACAGACACAATGCCAAATATTAGA            ATCATAAATGTAATTTTGAGATAATGTTTACCTTGAGTAGGAAGACACTTGACCATAT            TAAATTTGAAAGTCTTCTGTTCCAGACAAAATGGGGTAGGCTAATCCCTGTCATCCAA            GCAACTAAAAGGTAAAAACCTTATAACTTTAAAATAAAAAAGGTTATTTTTTTCCCTT            ATAAAGACAGGCAGTATGAGTTAATACATTAATAATTTATTTTGTACATCCCTGCTCCAAA            CACCACAAAAATGTACTTTTTTAAATGCCTGNCCATCCTCTNCTGGAAGGGTTTTNTCA            GATTTCNGGGTGACTGATTCATTCCACAGCCC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_007370
<b>Insert Size:</b>	2140 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_007370.3</a> , <a href="#">NP_031396.1</a>
<b>RefSeq Size:</b>	2119 bp
<b>RefSeq ORF:</b>	1023 bp
<b>Locus ID:</b>	5985
<b>UniProt ID:</b>	<a href="#">P40937</a>
<b>Cytogenetics:</b>	12q24.23
<b>Domains:</b>	AAA, AAA
<b>Protein Families:</b>	Stem cell - Pluripotency
<b>Protein Pathways:</b>	DNA replication, Mismatch repair, Nucleotide excision repair
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>