

Product datasheet for SC118346

RFC4 (NM_002916) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFC4 (NM_002916) Human Untagged Clone
Tag:	Tag Free
Symbol:	RFC4
Synonyms:	A1; RFC37
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118346 sequence for NM_002916 edited (data generated by NextGen Sequencing)

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ATGCAAGCATTCTTAAAGGTACATCCATCAGTACTAAACCCCGCTGACCAAGGATCGA
GGAGTAGCTGCCAGTGCGGGAAGTAGCGGAGAGAACAAGAAAGCCAAACCGTCCCTGG
GTGAAAAAATATCGCCAAAATGTGTGGATGAAGTTGCTTCCAGGAAGAAGTGGTTGCA
GTGCTGAAAAATCTTTAGAAGGAGCAGATCTTCTAATCTTTGTTTACGGACCACCT
GGAAGTGGAAAAACATCCACTATTTTGGCAGCAGCTAGAGAACTCTTTGGGCCTGAACTT
TTCCGATTAAGAGTTCTTGAGTTAAATGCATCTGATGAACGTGGAATACAAGTAGTTGCA
GAGAAAGTAAAAATTTGCTCAATTAAGTGTGTGAGGAGTGCCTCAGATGGGAAGCCG
TGTCGCCCTTTAAGATTGTGATTCTGGATGAAGCAGATTCTATGACCTCAGCTGCTCAG
GCAGCTTTAAGACGTACCATGGAGAAGGAGTCGAAAACCCCGATTCTGTCTTATCTGT
AACTATGTCAGTCGAATAATTGAACCCCTGACCTCTAGATGTTCAAAATTCGGCTCAAG
CCTCTGTGAGATAAAATCAACAGCAGCGATTACTAGACATTGCCAAGAAGGAAAATGTC
AAAATTAGTGATGAGGGAATAGCTTATCTTGTAAAGTGTGAGAAGGAGACTTAAGAAAA
GCCATTACATTTCTTCAAGCGCTACTCGATTAACAGGTGAAAGGAGATCACAGAGAAA
GTGATTACAGACATTGCTGGGGTAATACCAGCTGAGAAAATTGATGGAGTATTTGCTGCC
TGTCAGAGTGGCTCTTTTGACAACTAGAAGCTGTGGTCAAGGATTTAATAGATGAGGGT
CATGCAGCAACTCAGCTCGTCAATCAACTCCATGATGTGGTTGTAGAAAAAATAACTTATCT
GATAAACAGAAGTCTATTATCACAGAAAAACTTGCCGAAGTTGACAAATGCCTAGCAGAT
GGTGTGATGAACATTTGCAACTCATCAGCCTTTGTGCAACTGTGATGCAGCAGTTATCT
CAGAATTGTAA

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Clone variation with respect to NM_002916.3
798 c=>t



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002916 unedited</p> <pre> TTTTGTATACGACTCACTATGGGCGGCNCGCAATTCGCACGAGGGACTGTGGGACATCA GTGATCGTAAGTCTCCTGGGCCGTTATTCTCAGATTAGGTGACGGAGCTAAGACTTCGA GACCATCTCGCTTTTTGTATCGCGGAAACCTGAGGAACGAGCCGGCGGGTACCTG CACGAGAAGCCAGGCTAACTGGGTGAAGTACCATGCAAGCATTTCTTAAAGGTACATCCA TCAGTACTAAACCCCGCTGACCAAGGATCGAGGAGTAGCTGCCAGTGCGGGAAGTAGCC GAGAGAACAAGAAAGCCAAACCCGTTCCCTGGGTGAAAAATATCGCCCAAATGTGTGG ATGAAGTTGCTTTCCAGGAAGAAGTGGTTGCAGTGTGAAAAATCTTTAGAAGGAGCAG ATCTTCTAATCTCTTGTTTTACGGACCCTGAACTGAAAAACATCCACTATTTTGG CAGCAGCTAGAGAACTCTTTGGCCTGAACTTTTCCGATTAAGAGTTCTTGAGTTAAATG CATCTGATGAACGTGGAATACAAGTAGTTCGAGAGAAAGTAAAAATTTTGCTCAATTA CTGTGTCAGGAAGTCGCTCAGATGGGAAGCCGTGCCGCTTTTAAAGATTGTGATTCTGG ATGAAGCAGATTCTATGACCTCAGCTGCTCAGGCAGCTTAAAGACGTACCATGGAGAAGG AGTCGAAAACCACCCGATCTGTCTTATCTGTAATATGTCAGTGAATAATTGAACCC TGACCTTAGATGTTCAAATTCGCTTCCAGGCTCTGTGAGATAAATCAACAGCAGCG ATTACTAGACATTGCCCGAAGGAAATGTCAAAATAGGATGAGGGATAGCTATCTTGGTT AGGGTCGAGAGACTTAGAAAGCCTTCATTCTTCG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002916 unedited</p> <pre> TTTGGACGCGGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTGGGCATTTTATTTTATTACAACCTCATTATTTACAAAACCCCCATCCAGA TATATTCAGTTAAACAATTCTGAGATAACTGCTGCATCACAGTTGCACAAAGGCTGATGA GTTGCAAATGTTTCATCAGCACCATCTGCTAGGCATTTGTCAACTTCTACCAGAAAAATT TAAGAAATTAGCATCCTTCAGGTAGTTAAATGTTCCATTGACATGTCAAAGTACCTACT TACGGCAAGTTTTCTGGGATAATAAACTTCTGTTTATCAAATAAGTTATTTTCTACAAC CACATCATGGAGTTGATTGACCAGCTGAGTTGCTGCATGACCCTCATCTATTAATCCTA TAATAAAAAAACTTTTGGTATGATGACTTAATATTCCTTTCCCAAAGTTAGTAAGCTG ACTTTACCTTGACCACAGCTTCTAATTTGTCAAAGAGCCACTCTGACAGGCAGCAAATA CTCCATCAATTTTCTCAGCTGGTATTACCTAAGTAATTGAATGTTGCGTATTAAGATGT TTCTAGGTGAGACTAGACATACTCTGCCAACTGGCCCCGTCGCCCCAGTCATTTCTG TTCCACACCTAAGTTCCATACTTTTCTGGGAAGGCTTTGGGAGAACGGAAGGGCCAGAG TACTCCAGCCACCACTAAGCAACCAAGTCTAACAACCTGTGCTTTTAAAGCCCTTTTATG GCCTTGTGAACCTCCAAGTTTGGGCACACATGGATTATAGCCTGNTCTGGTCAGGGGATG AAGATTAAGTTTTCCCTTAGCGCTTTACGATTCTCAAACAGTGGCCAGATCACCACAA GACTGATTNCTTAAAGGGNAGTGCCTTCTCTCATCTCTCTGTAAGATGCACTATGAGAT GGNTAAAGTCCCA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_002916
Insert Size:	2580 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_002916.3 , NP_002907.1
RefSeq Size:	1427 bp
RefSeq ORF:	1092 bp
Locus ID:	5984
UniProt ID:	P35249
Cytogenetics:	3q27.3
Domains:	AAA, AAA
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	DNA replication, Mismatch repair, Nucleotide excision repair
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 kD. This gene encodes the 37 kD subunit. This subunit forms a core complex with the 36 and 40 kDa subunits. The core complex possesses DNA-dependent ATPase activity, which was found to be stimulated by PCNA in an in vitro system. Alternatively spliced transcript variants encoding the same protein have been reported. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR compared to variant 2. Variants 1 and 2 encode the same isoform.</p>