

Product datasheet for SC309555

RFC4 (NM_181573) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFC4 (NM_181573) Human Untagged Clone
Tag:	Tag Free
Symbol:	RFC4
Synonyms:	A1; RFC37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC309555 representing NM_181573. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGCAAGCATTTCTTAAAGGTACATCCATCAGTACTAAACCCCGCTGACCAAGGATCGAGGAGTAGCT
GCCAGTGCCGGAAGTAGCGGAGAGAACAAGAAAGCCAAACCCGTTCCCTGGTGGAAAAATATCGCCCA
AAATGTGTGGATGAAGTTGCTTTCCAGGAAGAAGTGGTTGCAGTGTGAAAAATCTTTAGAAAGGAGCA
GATCTTCTAATCTCTTGTTCACGACCACCTGGAACGGAAAAACATCCACTATTTGGCAGCAGCT
AGAGAACTCTTTGGCCGTAACCTTTCCGATTAAGAGTCTTGAGTTAAATGCATCTGATGAACGTGGA
ATACAAGTAGTTCGAGAGAAAGTAAAAATTTGCTCAATTAACGTGTCAGGAAGTCGCTCAGATGGG
AAGCCGTGCCGCTTTAAGATTGTGATCTGGATGAAGCAGATTCTATGACCTCAGCTGCTCAGGCA
GCTTTAAGACGTACCATGGAGAAGGAGTCGAAAACCCCGATTCTGTCTTATCTGTAACATATGTCAGT
CGAATAATTGAACCCCTGACCTCTAGATGTTCAAATTCGCTTCAAGCCTCTGTGAGATAAAATCAA
CAGCAGGATTACTAGACATTGCCAAGAAGGAAAAATGTCAAAATAGTGATGAGGGAATAGCTTATCTT
GTTAAAGTGTGAGAAGGAGACTTAAGAAAAGCCATTACATTTCTCAAAGCGCTACTCGATTAACAGGT
GGAAAGGAGATCACAGAGAAAGTATTACAGACATTGCCGGGTAATACCAGCTGAGAAAAATTGATGGA
GTATTTGCTGCCTGTGAGAGTGGCTCTTTGACAACTAGAAGCTGTGGTCAAGGATTTAATAGATGAG
GGTCATGCAGCAACTCAGCTCGTCAATCACTCCATGATGTGGTTGTAGAAAATAACTTATCTGATAAA
CAGAAGTCTATTATCACAGAAAAACTTGCCGAAGTTGACAAATGCCTAGCAGATGGTCTGATGAACAT
TTGCAACTCATCAGCCTTTGTGCAACTGTGATGCAGCAGTTATCTCAGAATTGTTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map: □



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ACCN:	NM_181573
Insert Size:	1092 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:	<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_181573.2
RefSeq Size:	1486 bp
RefSeq ORF:	1092 bp
Locus ID:	5984
UniProt ID:	P35249
Cytogenetics:	3q27.3
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	DNA replication, Mismatch repair, Nucleotide excision repair
MW:	39.7 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 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 (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform.</p>