

Product datasheet for SC313100

RFC2 (NM_181471) Human Untagged Clone

Product data:

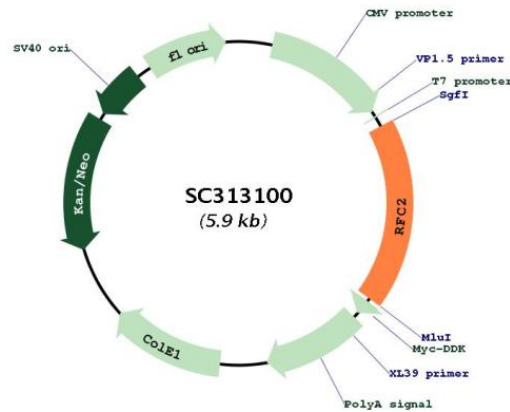
Product Type:	Expression Plasmids
Product Name:	RFC2 (NM_181471) Human Untagged Clone
Tag:	Tag Free
Symbol:	RFC2
Synonyms:	RFC40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313100 representing NM_181471. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGGTGGAGGCCGTCTGTGGTGGCGGGCGAGGTGGAGGCCAGGACTCTGACCCTGCCCTGCC
TTCAGCAAGGCCCGGCAGCGCCGCCACTACGAACTGCCGTGGGTTGAAAAATATAGGCCAGTAAAG
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CTGCTGGGCCAGCACTCAAAGATGCCATGTTGGAAGTCAATGCTTCAAATGACAGGGCCATTGACGTT
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ATTCTGGATGAAGCAGACAGCATGACCGACGGAGCCAGCAAGCCTTGAGGAGAACCATGGAAATCTAC
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TGTGCAGTCTCCGGTACACAAAGCTGACCGACGCCAGATCCTCACCAGGCTGATGAATGTTATCGAG
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GAAGCCTACAAGATTCTGTCTACTTGTGGCATCTGGGCTACTCACCAGAAGATATCATTGGCAACATC
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ACTCACATGAAAATAGCGGAAGGAGTGAAGTCTCTTTTGCAGATGGCAGGCCCTCTGGCAAGGCTGTG
CAGAAGACAATGGCCCGGTGGCCAGTTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_181471

Insert Size: 1065 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_181471.2](#)

RefSeq Size: 1759 bp

RefSeq ORF: 1065 bp

Locus ID: 5982

UniProt ID:	P35250
Cytogenetics:	7q11.23
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	DNA replication, Mismatch repair, Nucleotide excision repair
MW:	39.2 kDa
Gene Summary:	<p>This gene encodes a member of the activator 1 small subunits family. The elongation of primed DNA templates by DNA polymerase delta and epsilon requires the action of the accessory proteins, proliferating cell nuclear antigen (PCNA) and replication factor C (RFC). Replication factor C, also called activator 1, is a protein complex consisting of five distinct subunits. This gene encodes the 40 kD subunit, which has been shown to be responsible for binding ATP and may help promote cell survival. Disruption of this gene is associated with Williams syndrome. Alternatively spliced transcript variants encoding distinct isoforms have been described. A pseudogene of this gene has been defined on chromosome 2. [provided by RefSeq, Jul 2013]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>