

Product datasheet for SC118345

RFC2 (NM_002914) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFC2 (NM_002914) Human Untagged Clone
Tag:	Tag Free
Symbol:	RFC2
Synonyms:	RFC40
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118345 sequence for NM_002914 edited (data generated by NextGen Sequencing)

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ATGGAGGTGGAGCCGTCTGTGGTGGCGGGCGAGGTGGAGGCCAGGACTCTGACCCT
GCCCTGCCTTCAGCAAGGCCCGGCAGCGCCGACTACGAACTGCGTGGTTGAA
AAATATAGGCCAGTAAAGCTGAATGAAATTGTCGGGAATGAAGACACCGTGAGCAGGCTA
GAGGTCTTTGCAAGGGAAGGAAATGTGCCAACATCATCATTGCGGGCCCTCCAGGAACC
GGCAAGACCACAAGCATTCTGTGCTTGGCCCGGCCCTGCTGGGCCAGCACTCAAAGAT
GCCATGTTGGAATCAATGCTTCAAATGACAGCATGACCGACGGAGCCCAGCAAGCCTTG
AGGAGAACCATGGAAATCTACTCTAAAACCACTCGCTTCGCCCTTGCTTGAATGCTTCG
GATAAGATCATCGAGCCATTTCAGTCCCGCTGTGCAGTCTCCGGTACACAAAGCTGACC
GACGCCAGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACCCTACACT
GATGACGGCCTAGAAGCCATCATCTTCACGGCCAGGGAGACATGAGGCAGGCGCTGAAC
AACCTGCAGTCCACCTTCTCAGGATTTGGCTTCATTAACAGTGAGAACGTGTTCAAGGTC
TGTGACGAGCCCCACCACTGCTGGTAAAGGAGATGATCCAGCACTGTGTGAATGCCAAC
ATTGACGAAGCCTACAAGATTCTTGCTCACTTGTGGCATCTGGGCTACTCACCAGAAGAT
ATCATTGGCAACATCTTTCGAGTGTGTAACACTTTCCAATGGCAGAATACCTGAAACTG
GAGTTTATCAAGGAAATGGATACACTCACATGAAAATAGCGGAAGGAGTGAACCTCTTT
TTGCAGATGGCAGGCCTCCTGGCAAGGCTGTGTGAGAAGACAATGGCCCCGGTGGCCAGT
TAG

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Clone variation with respect to NM_002914.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002914 unedited</p> <pre>NNGGTCGGAATTTGTATACGACTCCTATAGGCGGCCGCGNAATTCGCACGAGGCTCGGGT GGCGGGAAGAGGAGGCGCGAGAATGGAGGTGGAGGCCGTCTGTGGTGGCGCGGGCGAGGT GGAGGCCCAGGACTCTGACCCTGCCCTGCCTTCAGCAAGGCCCCCGGCAGCGCCGGCCA CTACGAACTGCCGTGGGTTGAAAAATATAGGCCAGTAAAGCTGAATGAAATTGTCGGGAA TGAAGACACCGTGAGCAGGCTAGAGTCTTTGCAAGGGAAGGAAATGTGCCAACATCAT CATTGCGGGCCCTCCAGGAACCGCAAGACCACAAGCATTCTGTGCTTGGCCCGGGCCCT GCTGGGCCAGCACTCAAAGATGCCATGTTGGAAGTCAATGCTTCAAATGACAGGGGCAT TGACGTTGTGAGGAATAAAATTTAAATGTTTGGCTCAACAAAAAGTCACTCTTCCAAAGG CCGACATAAGATCATCATTCTGGATGAAGCAGACAGCATGACCGACGGAGCCAGCAAGC CTTGAGGAGAACCATGGAATCTACTCTAAAACCACTCGCTTCGCCCTTGTCTGTAATGC TTCGGATAAGATCATCGAGCCATTTCAGTCCCGCTGTGCAGTCTCCGGTACACAAAGCT GACCGACGCCAGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACCCTA CACTGATGACGGCTAGAAGCCATCATCTTCACGGCCAGGAGACATGANGCAGGCGCT GAACAACCTGCAGTCCACCTTCTCAGGATTTGGCTTCATTAACAGTGAGAACGTGNTCAA GGTCTGTGACGAGCCCCACCCACTGCTGGGTAAGGNAGAGATCCAGCACTGTGTGAATGC ACA</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002914 unedited</p> <pre>TGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGAAGTCACGGGAGT TTATTTATTTAATTTTTTCCCCAGATGGAGACTCTGTCGCCAGGCTGGAGTGCAATGG TGTGATCTTGGCTCACTGCAACCTCCACCTCCCGGGCTCAAGCGATTCTCCGCCACAGC CTCCCGAGTAGCTGGGATTACAGGTGCCCGCCACCACACCAGCTAATTTTTATATTTTT AGTAAAGACAGGGTTTTCCCATGTTGGCCAGGCTGGTCTTGAAGTCTGACCTCAGGTGA TCCACCCGCTCGGCCTCCCAAAGTGTGGGATTACAGGCGTGAGCTACCGTGCSCGGCC AGCCACTGGAGTTTAAAGGACAGTCATGTTGGCTCCAGCCTAAGGCGGCATTTTCCCCCA TCAGAAAGCCGCGGCTCCTGTACCTCAGAATAGGGCACCTGTAAGTCAGTCAGTGAAGTC TCTGCTCTAACTGGCCACCGGGGCCATTGTCTTCTGACACAGCCTTGGCAGGAGGCTGC CATCTGCCAAAGAGAGTTCACCTCTCCGCTATTTTTCATGTGAGTGTATCCAATTTCCCT TGATAACTCCAGTTTCAGGTATTCTGCCATTTGGAAAGTTTTACACACCTCGAAGATGTT GCCAATGATATCTTCTGGTGAGTAGCCAGATGCCACAAGTGAGCACGAATCTTTGAGGC TTCGTCAATGGTGCCATTACACAGTGGCTGGATCATCTCTTTACCAGCAGTGGGTGGG GCTCGTACAAGACCTTGAACACGTTTTACTGTAATGAAGCCAAATCCTGAAAAGGTG GACCTGCACGTTGTCCACCGCTGTCTCATGTCTTCTGGGCCGCGAAAATGAAGGCGTT CTAAGCCGTCATCAGTGAAGGACCCCTCTTCTTCTGGAACATTCAATAAGCTGGGGG AGGAACTGGCCGTCNGCCACNTTTGGTACCCGGAGACTGTCCAANGGCACTGAATGGCC TCCAGATCTTATCN</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_002914
Insert Size:	1630 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:

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_002914.3](#), [NP_002905.2](#)

RefSeq Size: 1613 bp

RefSeq ORF: 963 bp

Locus ID: 5982

UniProt ID: [P35250](#)

Cytogenetics: 7q11.23

Domains: AAA, AAA

Protein Families: Druggable Genome, Stem cell - Pluripotency

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

Gene Summary: 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]

Transcript Variant: This variant (2) lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.