

## Product datasheet for SC334830

### RFC2 (NM\_001278792) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RFC2 (NM_001278792) 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:	>NCBI ORF sequence for NM_001278792, the custom clone sequence may differ by one or more nucleotides

ATGTGCCCAACATCATCATTGCGGGGCATTGACGTTGTGAGGAATAAAATTAAAATGTTTGCTCAACAAA  
 AAGTCACTCTTCCCAAAGGCCGACATAAGATCATCATTCTGGATGAAGCAGACAGCATGACCGACGGAGC  
 CCAGCAAGCCTTGAGGAGAACCATGGAATCTACTCTAAACCACTCGCTTCGCCCTTGCTTGTAATGCT  
 TCGGATAAGATCATCGAGCCCATTCAGTCCCGCTGTGACGTCCTCCGGTACACAAAGCTGACCGACGCC  
 AGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACCCTACACTGATGACGGCCTAGAAGC  
 CATCATCTTCACGGCCAGGGAGACATGAGGCAGGCGCTGAACAACCTGCAGTCCACCTTCTCAGGATTT  
 GGCTTCATTAACAGTGAGAACGTGTTCAAGGTCTGTGACGAGCCCCACCCACTGCTGGTAAAGGAGATGA  
 TCCAGCACTGTGTGAATGCCAACATTGACGAAGCCTACAAGATTCTTGCTCACTTGTGGCATCTGGGCTA  
 CTCACCAGAAGATATCATTGGCAACATCTTTCGAGTGTGTAAAACCTTCCAAATGGCAGAATACCTGAAA  
 CTGGAGTTTATCAAGGAAATTGGATACACTCACATGAAAATAGCGGAAGGAGTGAACCTCTTTTGCAGA  
 TGGCAGGCCTCCTGGCAAGGCTGTGTCAGAAGACAATGGCCCCGGTGGCCAGT**TAG**

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001278792
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).


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<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>	<u>NM_001278792.1, NP_001265721.1</u>
<b>RefSeq Size:</b>	1652 bp
<b>RefSeq ORF:</b>	756 bp
<b>Locus ID:</b>	5982
<b>UniProt ID:</b>	<u>P35250</u>
<b>Cytogenetics:</b>	7q11.23
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency
<b>Protein Pathways:</b>	DNA replication, Mismatch repair, Nucleotide excision repair
<b>Gene Summary:</b>	<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 (4) lacks an exon in the central coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (4) has a shorter and distinct N-terminus, compared to isoform 1.</p>