

Product datasheet for **RG201138**

RFC2 (NM_002914) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFC2 (NM_002914) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RFC2
Synonyms:	RFC40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201138 representing NM_002914 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGTGGAGGCCGTCTGTGGTGGCGGGGCGAGGTGGAGGCCAGGACTCTGACCCTGCCCTGCCT
TCAGCAAGGCCCCCGGCAGCGCCGGCCACTACGAACTGCCGTGGGTTGAAAAATATAGGCCAGTAAAGCT
GAATGAAATTGTCGGGAATGAAGACACCGTGAGCAGGCTAGAGGTCTTTGCAAGGGAAGGAAATGTGCC
AACATCATCATTGCGGGCCCTCCAGGAACCGCAAGACCACAAGCATTCTGTGCTTGGCCCGGGCCCTGC
TGGGCCAGCACTCAAAGATGCCATGTTGGAACCTCAATGCTTCAAATGACAGCATGACCGACGGAGCCCA
GCAAGCCTTGAGGAGAACCATGAAATCTACTCTAAAACCACTCGCTTCGCCCTTGCTTGTAAATGCTTCG
GATAAGATCATCGAGCCATTAGTCCCGCTGTGCACTCCTCCGGTACACAAAGCTGACCGACGCCCAGA
TCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACCCTACACTGATGACGGCCTAGAAGCCAT
CATCTTACGGCCAGGGAGACATGAGGCAGGCGCTGAACAACCTGCAGTCCACCTTCTCAGGATTTGGC
TTCATTAACAGTGAGAACGTGTTCAAGGTCTGTGACGAGCCCCACCACTGCTGGTAAAGGAGATGATCC
AGCACTGTGTAATGCCAACATTGACGAAGCCTACAAGATTCTTGCTCACTTGTGGCATCTGGGCTACTC
ACCAGAAGATATCATTGGCAACATCTTTGAGTGTGTAACCTTTCCAAATGGCAGAATACCTGAAACTG
GAGTTTATCAAGGAAATTGGATACACTCACATGAAAATAGCGGAAGGAGTGAACCTCTTTTGCAGATGG
CAGGCCCTCGCAAGGCTGTGTGAGAAGACAATGGCCCCGGTGGCCAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201138 representing NM_002914
 Red=Cloning site Green=Tags(s)

```
MEVEAVCGGAGEVEAQSDPAPAFSKAPGSAGHYELPWVEKYRPVKLNEIVGNEDTVSRLEVFAREGNVP
NIIIAGPPGTGKTTTILCLARALLGPALKDAMLELNASNDSMTDGAQQALRRTMEIYSKTRFALACNAS
DKIIEPIQSRCAVLRYSKLTDAQILTRLMNVIEKERVYTDGGLAEIFTAQGD MRQALNNLQSTFSGFG
FINSENVFKVCDPEPHLLVKEMIQHCNVANIDEAYKILAHLWHLGYSPEDIIGNIFRVCKTFQMAEYLKL
EFIKEIGYTHMKIAEGVNSLLQ MAGLLARLCQKTMAPVAS
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002914

ORF Size: 960 bp

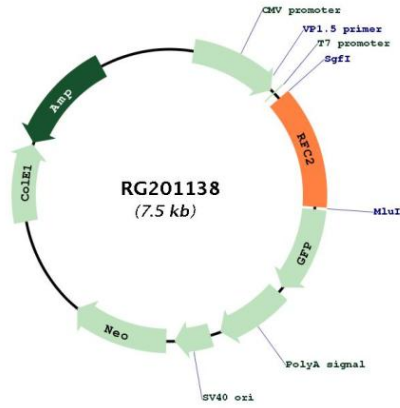
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_002914.4
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:	<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>

Product images:



Circular map for RG201138