

## Product datasheet for **RG236936**

### RFC2 (NM\_001278792) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RFC2 (NM_001278792) 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:	>RG236936 representing NM_001278792. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGCCCAACATCATCATTGCGGGCATTGACGTTGTGAGGAATAAAATTTAAATGTTTGCTCAACAA
AAAGTCACTCTTCCCAAAGGCCGACATAAGATCATCATTCTGGATGAAGCAGACAGCATGACCGACGGA
GCCCAGCAAGCCTTGAGGAGAACCATGGAATCTACTCTAAAACCACTCGCTTCGCCCTTGCTTGTAAAT
GCTTCGGATAAGATCATCGAGCCATTAGTCCCGCTGTGCAGTCCTCCGGTACACAAAGCTGACCGAC
GCCCAGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACCCTACACTGATGACGGCCTA
GAAGCCATCATCTTACGGCCAGGGAGACATGAGGCAGGCGCTGAACAACCTGCAGTCCACCTTCTCA
GGATTTGGCTTCATTAACAGTGAGAACGTGTTCAAGGTCTGTGACGAGCCCACTGCTGGTAAAG
GAGATGATCCAGCACTGTGTGAATGCCAACATTGACGAAGCCTACAAGATTCTTGCTCACTTGTGGCAT
CTGGGCTACTCACCAGAAGATATCATTGGCAACATCTTTCGAGTGTGAAAACCTTCCAATGGCAGAA
TACCTGAAACTGGAGTTTATCAAGGAAATTGGATACACTCACATGAAAATAGCGGAAGGAGTGAACCTC
CTTTTGCAGATGGCAGGCCTCCTGGCAAGGCTGTGTCAGAAGACAATGGCCCCGGTGGCCAGT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



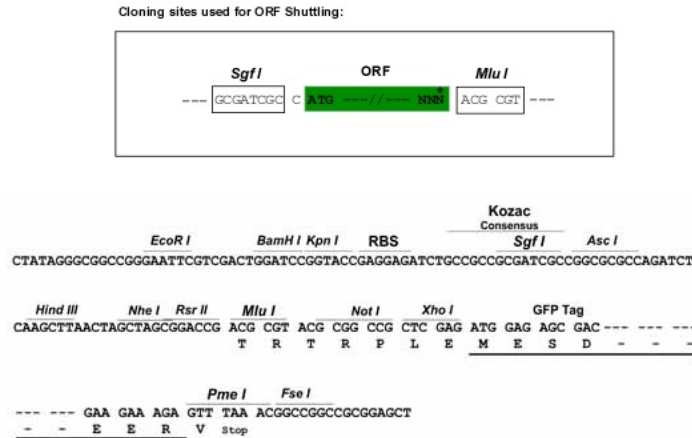
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**Protein Sequence:** >Peptide sequence encoded by RG236936  
 Blue=ORF Red=Cloning site Green=Tag(s)

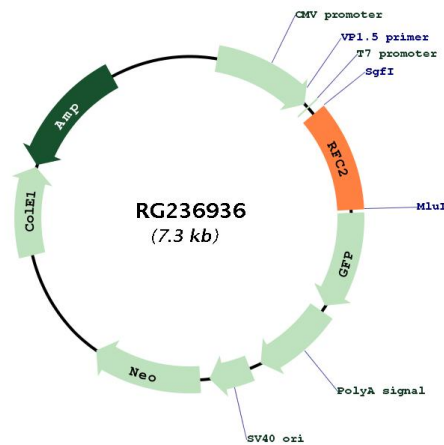
MCPTSSLRGIDVVRNKIKMFAQQKVTLPKGRHKIIILDEADSMTDGAQQALRRTEIYSKTRTFALACN  
 ASDKIIIEPIQSRCAVLRYSKLTDAQILTRLMNVIEKERVPTDDGLEAIIFTAQGDMRQALNNLQSTFS  
 GFGFINSENVFKVCDPHPLLKEMIQHCNVANIDEAYKILAHLWHLGYSPEIIGNIFRVCKTFQMAE  
 YLKLEFIKEIGYTHMKIAEGVNSLLQ MAGLLARLCQKTMAPVAS  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001278792

<b>ORF Size:</b>	753 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>RefSeq:</b>	<a href="#">NM_001278792.1</a> , <a href="#">NP_001265721.1</a>
<b>RefSeq Size:</b>	1652 bp
<b>RefSeq ORF:</b>	756 bp
<b>Locus ID:</b>	5982
<b>UniProt ID:</b>	<a href="#">P35250</a>
<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>MW:</b>	28.8 kDa
<b>Gene Summary:</b>	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]