

Product datasheet for **RG236957**

RFC2 (NM_001278791) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFC2 (NM_001278791) 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:	>RG236957 representing NM_001278791. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTGGAACAATGCTTCAAATGACAGGGCATTGACGTTGTGAGGAATAAAATTTAAATGTTTGCT
CAACAAAAGTCACTCTTCCAAAGGCCGACATAAGATCATCTTCTGGATGAAGCAGACAGCATGACC
GACGGAGCCAGCAAGCCTTGAGGAGAACCATGGAATCTACTCTAAAACCACTCGCTTCGCCCTTGCT
TGTAATGCTTCGGATAAGATCATCGAGCCATTCACTCCCGCTGTGCAGTCTCCGGTACACAAAGCTG
ACCGACGCCAGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACCCTACACTGATGAC
GGCCTAGAAGCCATCATCTTACGGCCAGGGAGACATGAGGCAGGCGCTGAACAACCTGCAGTCCACC
TTCTCAGGATTTGGCTTCATTAACAGTGAGAACGTGTTCAAGGTCTGTGACGAGCCCACTGCTG
GTAAGGAGATGATCCAGCACTGTGTGAATGCCAACATTGACGAAGCCTACAAGATTCTTGTCACTTG
TGGCATCTGGGCTACTCACCAGAAGATATCATTGGCAACATCTTTCGAGTGTGTAACCTTTCCAAATG
GCAGAATACCTGAAACTGGAGTTTATCAAGGAAATGGATACACTCACATGAAAAAGCGGAAGGAGTG
AACTCTCTTTGCAGATGGCAGGCCTCTGGCAAGGCTGTGTGAGAAGACAATGGCCCGGTGGCCAGT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236957
 Blue=ORF Red=Cloning site Green=Tag(s)

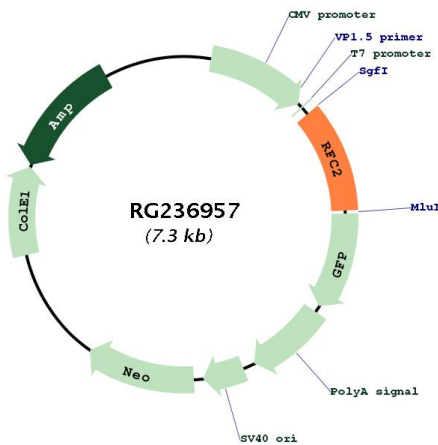
MLELNASNDRGIDVVRNKIKMFAQQKVTLPKGRHKIIILDEADSMTDGAQQALRRTMEIYSKTTRFALA
 CNASDKIIEPIQSRCAVLRYSKLTDAQILTRLMNVIEKERVYPTDDGLEAIFTAQGDMRQALNNLQST
 FSGFGFINSENVFKVCDPEPHLLVKEMIQHCNVANIDEAYKILAHLWHLGYSPEIDIIGNIFRVCKTFQM
 AEYLKLEFIKEIGYTHMKIAEGVNSLLQ MAGLLARLCQKTMAPVAS
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278791

ORF Size:	759 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).
RefSeq:	NM_001278791.1 , NP_001265720.1
RefSeq Size:	1861 bp
RefSeq ORF:	762 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:	29.1 kDa
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]