

Product datasheet for **RC236936**

RFC2 (NM_001278792) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RFC2 (NM_001278792) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RFC2
Synonyms: RFC40
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236936 representing NM_001278792
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGCCCAACATCATCATTGCGGGCATTGACGTTGTGAGGAATAAAATTTAAATGTTTGCTCAACAAA
AAGTCACTCTTCCAAAGCCGACATAAGATCATCATTCTGGATGAAGCAGACAGCATGACCGACGGAGC
CCAGCAAGCCTTGAGGAGAACCATGAAATCTACTCTAAAACCACTCGCTTCGCCCTTGCTGTAATGCT
TCGGATAAGATCATCGAGCCATTCACTCCCGCTGTGAGTCTCCGGTACACAAAGCTGACCGACGCC
AGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACCCTCACTGATGACGGCCTAGAAGC
CATCATCTTCACGGCCAGGGAGACATGAGGCAGGCGCTGAACAACCTGCAGTCCACCTTCTCAGGATTT
GGCTTCATTAACAGTGAGAACGTGTTCAAGGCTGTGACGAGCCCACTGCTGGTAAAGGAGATGA
TCCAGCACTGTGTGAATGCCAACATTGACGAAGCCTACAAGATTTCTGCTCACTTGTGGCATCTGGGCTA
CTCACCAGAAGATATCATTGGCAACATCTTTCGAGTGTGTAATAACTTTCCAAATGGCAGAATACCTGAAA
CTGGAGTTTATCAAGGAAATGGATACACTCACATGAAAATAGCGGAAGGAGTGAACCTCTTTTTGCAGA
TGGCAGGCCTCCTGGCAAGGCTGTGTCAGAAGACAATGGCCCCGGTGGCCAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC236936 representing NM_001278792
Red=Cloning site Green=Tags(s)

MCPTSSLRGIDVVRNKIKMFAQQKVTLPKGRHKIIILDEADSMTDGAQQALRRTMEIYSKTTRFALACNA
 SDKIIEPIQSRCAVLRYSKLTDAQILTRLMNVIEKERVPYTDGLEAIIIFTAQGDMRQALNNLQSTFSGF
 GFINSENVFKVCDEPHLLVKEMIQHCNVANIDEAYKILAHLWHLGYSPEIIGNIFRVCKTFQMAEYLK
 LEFIKEIGYTHMKIAEGVNSLLQAGLLARLQKQKTMAPVAS

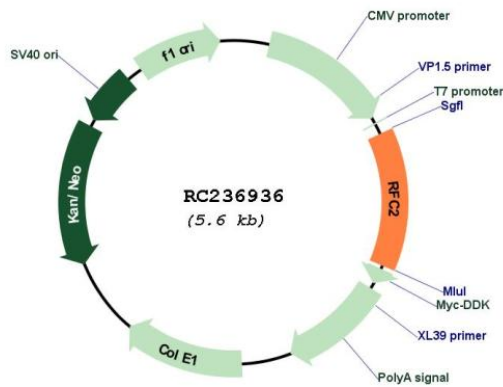
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278792
ORF Size: 753 bp

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|-------------------------------|---|
| 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_001278792.1 , NP_001265721.1 |
| RefSeq Size: | 1652 bp |
| RefSeq ORF: | 756 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: | 28.8 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] |