

Product datasheet for MR205290

Rfc2 (NM_020022) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rfc2 (NM_020022) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rfc2
Synonyms:	40kDa; 2610008M13Rik; AI326953; Recc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205290 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGTTCCAGGAGAGTGGCTGTGACCCATCCGAGAGTGGGGCGCAGGAGCCCTCGCCTGTCCCCAGCA
AGACCGCCGGCCACTACGAGCTGCCGTGGGTTGAAAAATACAGACCATTGAAGCTCAACGAAATAGTGGG
CAATGAAGACACTGTGAGCAGGCTGGAGGCTTTGCAAGAGAAGGCAATGTGCCAATATCATCATTGCT
GGTCCCCAGGAACTGGCAAGACAACCAGCATCCTCTGCTTGGCTCGAGCCTTGTGGGCCCCGCCCTGA
AGGACGCAGTCTGGAATCAATGCCTCAAATGACAGGGGCATCGATGTGGTGAGGAATAAAATCAAAT
GTTCCGCCAGCAGAAAGTCACCCCTCCCAAGGGCCGGCACAAGATCATCATTCTAGATGAAGCAGACAGC
ATGACGGACGGTCCCGCAGGCCCTCAGGAGAACCATGGAAATCTACTCGAAGACGACCCGATTGCTT
TGGCGTGAATGCTTCAGACAAAATCATAGAGCCCATCCAGTCCCCTGTGCGGTGCTCCGCTACACCAA
GCTCACTGACGCTCAGGTCCTCACCAGGCTCATGAATGTCATCGAGAAGGAAAAGGTGCCATACACAGAT
GACGGCTGGAAGCCATTATCTTCACAGCCAGGGAGACATGCGCCAGGCACTGAACAACCTGCAGTCCA
CCTTCTCAGGATTTGGCTATATCAACAGTGAGAATGTATTCAAGGTCTGCGACGAGCCCCACCCCTGCT
GGTGAAGGAGATGATCCAGCACTGCGTGGACGCCAACATTGACGAGGCCATAAGATTCTTGCTCACCTG
TGGCACCTGGGCTACTCACCAGAAGATGTCATCGGCAACATTTCCGAGTCTGCAAAACCTTCCCGATGG
CTGAATACTTGAAACTGGAGTTCATCAAGGAGATTGGATACACTACATGAAAGTGGCGGAAGGAGTGAA
CTCCCTGCTGCAGATGGCTGGGCTCCTGGCCAGGCTGTGTCAGAAGACCATGGCTCCAGTGGCCAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205290 protein sequence
 Red=Cloning site Green=Tags(s)

MEVQESGCDPSESGAQEPSPVPSKTAGHYELPWVEKYRPLKLNIEIVGNEDTVSRLEVFAREGNVPNIIIA
 GPPGTGKTTTILCLARALLGPALKDAVLELNASNDRGIDVVRNKIKMFAQQKVTLPKGRHKIIILDEADS
 MTDGAQQALRRTMEIYSKTTRFALACNASDKIIIEPIQSRCAVLRVTKLTDAQVLRMLMNVIEKEKVPYTD
 DGLEAIIIFTAQGD MRQALNNLQSTFSGFGYINSENVFKVCDEPHPLLVKEMIQHCVDANIDEAYKILAHL
 WHLGYPEDVIGNIFRVCKTFPMAEYLKLEFIKEIGYTHMKVAEGVNSLLQ MAGLLARLCQKTMAPVAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_020022

ORF Size: 1050 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:

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_020022.2](#), [NP_064406.1](#)

RefSeq Size: 1518 bp

RefSeq ORF: 1050 bp

Locus ID: 19718

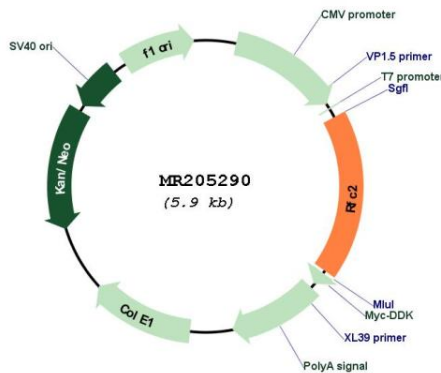
UniProt ID: [Q9WUK4](#)

Cytogenetics: 5 74.68 cM

MW: 38.7 kDa

Gene Summary: 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 activator 1. This subunit binds ATP (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205290