

Product datasheet for MR205589

Rfc4 (NM_145480) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rfc4 (NM_145480) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rfc4
Synonyms:	A1; AI894123; AU040575; RFC37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205589 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAAGCATTCTGAAAGGCACATCTGTCTGAGTCCAAAGCACAACTGACCAAGGACCGGGGACACCTG
CCACTGCAGGAAGCAGTGGAGAAACCAAGAAAGTCAAACCAAGTTCCTTGGGTGGAAAAATACCGTCCAAA
GTGTGTGGATGAAGTGGCTTCCAGGACGAAGTGGTTCAGTCTGAGAAAGTCCCTAGAAGGAGCTGAC
CTTCTAATCTCTTGTCTATGGGCCACCTGGAAGTGGCAAAACATCCACCATTTTGGCAGCAGCTAGAG
AGCTCTTTGGGCCTGAAGTCTTTGATTAAGAGTCTTGAAGTAAATGCATCTGATGAACGTGGAATACA
AGTAGTCCGAGAGAAAGTAAAAATTTGCTCAGTAACTGTATCAGGAAGTCCGTCAGATGGGAAGCCA
TGTCTCCCTTTAAGATTGTAATTCTGGATGAAGCAGATTTCGATGACTTCAGCTGCTCAGGCAGCTTTAA
GGCGTACCATGGAAAAAAGATCAAAAACAACAGATTCTGCCTCATCTGTAAGTATGTCAGTCAATAAT
TGAACCCCTCACTTCTAGATGTTCAAAATTCGCTTCAAGCCTCTGTCAGATAAGATTCAACAGGAGCGA
TACTGGATATTGCTGAGAAGGAAATGTCAAAATGGCAATGAGGAAATAGCGTATCTTGTTAAGATAT
CAGAAGGAGATTTACGGAAAGCCATCACATTTCTCAGAGTGCCACTCGACTAACAGGTGGAAAGGAAGT
CTCTGAAGATGTGATCACAGACATTGCTGGGGTAATACCAGCTGCAACCATGATGGAATATTCAGTCA
TGTCAGTGGCTCTTTGACAACTAGAAGCTGTGGTAAAGAACCTCATAGATGAAGGACATGCAGCTA
CTCAGCTTGTCAATCAACTCATGATGCAATTATAGAAAATGAAAATCTGTCTGATAAACACAAGTCCAT
TATCACAGAGAACTTGCTGAAGTAGACAAGTCTGGCAGATGGTGCAGATGAACACCTGCAGTTGATG
AGCCTTTGTGCAACTGTGATGCAGCAGCTAACTCAGAAGTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205589 protein sequence
Red=Cloning site Green=Tags(s)

MQAFLKGTSVSAKAQLTKDRGTPATAGSSGETKKVKPVPWVEKYRPKCVDEVAFQDEVVAVLRKSLEGAD
 LPNLLFYGPPGTGKTSTILAAARELFGPELFLRVLELNASDERGIQVVREKVKNFQAQLTVSGSRSDGKP
 CPPFKIVILDEADSMTSAAQAALRRTMEKESKTRFCLICNYVSRIEPLTSRCSKFRFKPLSDKIQQER
 LLDIAEKENVKIGNEEIAYLVKISEGDLRKAITFLQSATRLTGGKEVSEDVITDIAGVIPAAATIDGIFTA
 CHSGSFDKLEAVVKNLIDEGHAATQLVNQLHDAIENENLSDKHKSIIITEKLAEVDKCLADGADEHLQLM
 SLCATVMQQLTQNC

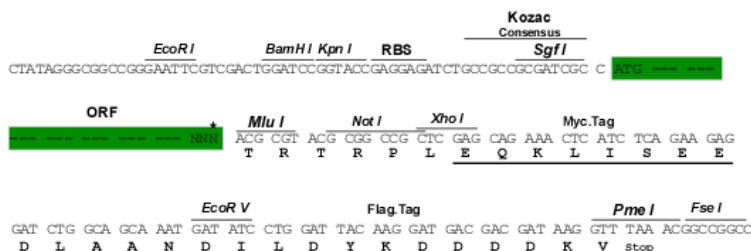
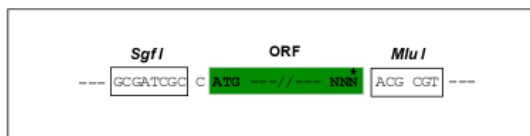
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_145480

ORF Size: 1095 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_145480.1](#), [NP_663455.1](#)

RefSeq Size: 1231 bp

RefSeq ORF: 1095 bp

Locus ID: 106344

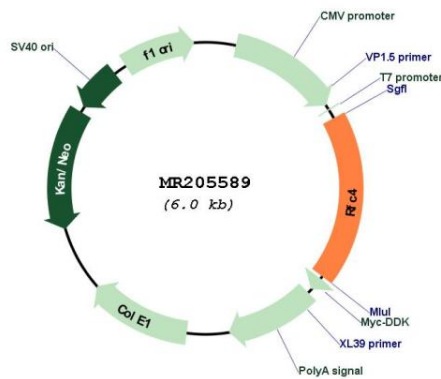
UniProt ID: [Q99J62](#)

Cytogenetics: 16 B1

MW: 39.9 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 may be involved in the elongation of the multiprimed DNA template (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205589