

Product datasheet for MR205432

Rfc3 (NM_027009) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rfc3 (NM_027009) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rfc3
Synonyms:	38kDa; 2810416I22Rik; AU022547; Recc3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205432 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCTCTGGGTGGACAAGTACCGCCGAGCTCCCTTGCCGGCTGGACTATCATAAGGAACAGGCAG
CACAGCTGCGCAACCTGGTGCAGTGTGGAGACTTTCCTCACCTTTAGTATATGGACCATCAGGTGCTGG
AAAAAAGACAAGAATTATGTGTATTCTACGTGAACCTTTATGGTATCGGGGTGGAAAACTGAGAATTGAG
CATCAGACTATCACAACCCCGTCTAAAAAATAATGAAATCAGCACCATTGCAAGCAACTACCACCTTG
AAGTTAATCCCAGTGATGCGGGGAACAGCGACCGAGTTGTAATTCAGGAGATGCTGAAGACAGTGGCACA
GTCACAACAACCTGAAACCAGCTCACAAGAGACTTCAAAGTGGTATTATTGACAGAGGTGGACAAACTC
ACAAAGGATGCTCAGCATGCCTTACGCAGAATATGGAGAAATACATGTCTACCTGCAGGCTCATCTTGT
GCTGCAATTCACATCTAAGGTGATACCCCGATCCGAAGCAGGTGCCTGGCAGTTCTGTGCTGCTCC
CAGCATCGAAGATATTTGCAGTGTACTATCCACTGTCTGCAGGAAGGAAGTCTGGCTCTCCCTTCGACA
TTGGCCCGTAGGCTGGCCGAGAAGTATGCCGAAACCTCAGGAAAGCCTTACTTATGTGTGAGGCCTGCA
GAGTGCAGCAATACCCTTTACGGAAGACCAAGAAATCCCAGAGACAGACTGGGAGGTGTATCTGAGGGA
GACCGCAAATGCTATTGTCTAGTCAGCAGACGCCACAGAGGCTCCTTGAAGTCCGTGGAAGGCTCTATGAG
CTTCTAACTCATTGTATTCTCCTGAGATAATAATGAAGGGCTCCTCTCAGAATCCTCCATAACTGTG
ATGGGCAGCTGAAAGGGGAAGTGGCACAGATGGCAGCCTACTATGAGCACCGACTACAGCTGGGCAGCAA
AGCCATTTATCATTTGGAAGCATTGTGGCGAAGTTTATGGCACTTTATAAGAAGTTCATGGAGGATGGA
CTGGAAGGCATGATGTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205432 protein sequence
 Red=Cloning site Green=Tags(s)

MSLWVDKYRPSSLARLDYHKEQAAQLRNLVQCGDFPHLLVYGPSGAGKKTRIMCILRELYGIGVEKLRIE
 HQTITTPSKKKIEISTIASNYHLEVNPSDAGNSDRVVIQEMLKTVAQSQQLETSSQRDFKVVLLTEVDKL
 TKDAQHALRRTMEKYMSTCRLILCCNSTSKVIPPISRCLAVRVPAPSIEDICSVLSTVCRKEGLALPST
 LARRLAEKSCRNLRKALLMCEACRVQQYPFTEDQEIPETDWEVYLRETANAIVSQQTPQRLLLEVRGRLYE
 LLTHCIPPEIIMKGLLSELLHNCDGQLKGEVAQMAAYYEHRLQLGSKAIYHLEAFVAKFMALYKFKMEDG
 LEGMMF

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_027009

ORF Size: 1071 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_027009.1](#), [NM_027009.2](#), [NP_081285.1](#)

RefSeq Size: 1215 bp

RefSeq ORF: 1071 bp

Locus ID: 69263

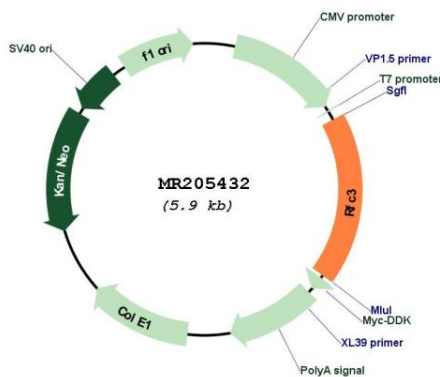
UniProt ID: [Q8R323](#)

Cytogenetics: 5 G3

MW: 40.5 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. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205432