

Product datasheet for **RC229158**

RFC5 (NM_181578) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RFC5 (NM_181578) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RFC5
Synonyms: RFC36
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC229158 representing NM_181578
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTTGAAAAATACCGCCACAGACCCTGAATGATCTCATTCTCATCAGGACATTCTGAGTACCATT
AGAAGTTTATCAATGAAGACCGACTGCCACACTTGCTTCTACGGTCCCCAGGGACAGGAAGACATC
TACCATCCTAGCCTGTGCGAAACAGCTATATAAGACAAAGAATTGGCTCCATGGTCTTGAGCTGAAT
GCTTCAGATGACCGAGGAATAGACATCATTGAGGACCGATCCTGAGCTTGCTAGCACAAAGACAATAT
TTAAGAAAGGCTTTAAGCTAGTGATCTTGGATGAAGCAGACGCCATGACTCAGGACGCCAGAATGCCTT
GAGAAGAGTAATTGAGAAATTCACAGAAAATACCAGATTCTGCCTCATCTGTAACATCTGTCAAAGATC
ATCCCTGCCTTGCACTCCCGCTGCACGAGGTTTCGGTTCGGTCCCCTGACTCCTGAACTCATGGTCCCC
GCCTGGAACATGTCGTGGAAGAAGAGAAAGTTGATATAAGTGAAGATGGAATGAAAGCACTAGTCACTCT
TTCCAGTGGAGACATGCGTAGGGCTCTGAACATTTGCAGAGCACCAATATGGCCTTTGGGAAGGTGACA
GAGGAGACTGTCTACACCTGCACCGGCCACCCGCTCAAGTCAGACATTGCCAACATCCTGGACTGGATGT
TGATCAAGATTTCAACACAGCCTACAGAAATATTACAGAGTTGAAAACCTCTGAAGGGGTTGGCAGTCA
TGATATCCTGACAGAGATACACTTGTGTTGTCATAGAGTTGACTTCCATCTTCAGTTCGAATACATTTA
TTGACCAAAATGGCAGACATTGAGTACAGGCTTTCTGTTGGCACCAACGAGAAGATCCAGCTGAGCTCCC
TCATTGCTGCATTTCAAGTCACCAGAGACCTGATTGTTGCAGAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229158 representing NM_181578
Red=Cloning site Green=Tags(s)

MVEKYRPQTLNDLISHQDILSTIQKFINEDRPLPHLLLYGPPGTGKTSTILACAKQLYKDKKEFGSMVLELN
ASDDRGIDIIIRGPILSFASTRTRIFKKGFKLVILDEADMTQDAQNALRRVIEKFTENTRFCLICNYLSKI
IPALQSRCTRFRFGPLPELMVPRLEHVVEEEKVDISEDGMKALVTLSSGDMRRALNILQSTNMAFGKVT
EETVYTCTGHPLKSDIANILDWMLNQDFTTAYRNITELKTLKGLALHDILTEIHLFVHRVDFPSSVRIHL
LTKMADIEYRLSVGTNEKIQLSSLIAAFQVTRDLIVAEA

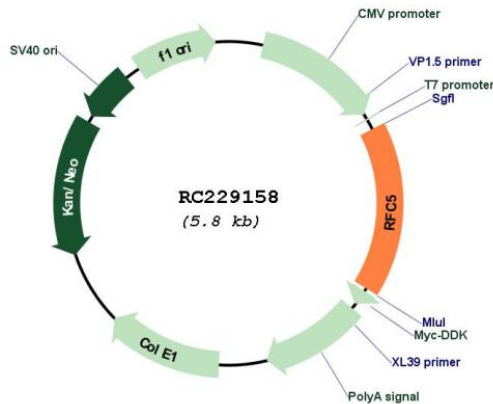
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_181578

ORF Size: 957 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:	<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_181578.4
RefSeq Size:	2486 bp
RefSeq ORF:	960 bp
Locus ID:	5985
UniProt ID:	P40937
Cytogenetics:	12q24.23
Protein Families:	Stem cell - Pluripotency
Protein Pathways:	DNA replication, Mismatch repair, Nucleotide excision repair
MW:	36.1 kDa
Gene Summary:	This gene encodes the smallest subunit of the replication factor C complex, which consists of five distinct subunits (140, 40, 38, 37, and 36 kDa) and is required for DNA replication. This subunit interacts with the C-terminal region of proliferating cell nuclear antigen and is required to open and load proliferating cell nuclear antigen onto DNA during S phase. It is a member of the AAA+ (ATPases associated with various cellular activities) ATPase family and forms a core complex with the 38 and 40 kDa subunits that possesses DNA-dependent ATPase activity. A related pseudogene has been identified on chromosome 9. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2016]