OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC109725

RFC5 (NM_181578) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFC5 (NM_181578) Human Untagged Clone
Tag:	Tag Free
Symbol:	RFC5
Synonyms:	RFC36
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_181578, the custom clone sequence may differ by one or more nucleotides

ATGGTTGAAAAATACCGGCCACAGACCCTGAATGATCTCATTTCTCATCAGGACATTCTGAGTACCATTC
AGAAGTTTATCAATGAAGACCGACTGCCACACTTGCTTCTCTACGGTCCCCCAGGGACAGGCAAGACATC
TACCATCCTAGCCTGTGCGAAACAGCTATATAAAGACAAAGAATTTGGCTCCATGGTCTTGGAGCTGAAT
GCTTCAGATGACCGAGGAATAGACATCATTCGAGGACCGATCCTGAGCTTTGCTAGCACAAGGACAATAT
TTAAGAAAGGCTTTAAGCTAGTGATCTTGGATGAAGCAGACGCCATGACTCAGGACGCCCAGAATGCCTT
GAGAAGAGTAATTGAGAAATTCACAGAAAATACCAGATTCTGCCTCATCTGTAACTATCTGTCAAAGATC
ATCCCTGCCTTGCAGTCCCGCTGCACGAGGTTTCGGTTCGGTCCCCTGACTCCTGAACTCATGGTTCCCC
GCCTGGAACATGTCGTGGAAGAAGAGAAAGTTGATATAAGTGAAGATGGAATGAAAGCACTAGTCACTCT
TTCCAGTGGAGACATGCGTAGGGCTCTGAACATTTTGCAGAGCACCAATATGGCCTTTGGGAAGGTGACA
GAGGAGACTGTCTACACCTGCACCGGGCACCCGCTCAAGTCAGACATTGCCAACATCCTGGACTGGATGT
TGAATCAAGATTTCACCACAGCCTACAGAAATATTACAGAGTTGAAAACTCTGAAGGGGTTGGCACTGCA
TGATATCCTGACAGAGATACACTTGTTTGTGCATAGAGTTGACTTTCCATCTTCAGTTCGAATACATTTA
TTGACCAAAATGGCAGACATTGAGTACAGGCTTTCTGTTGGCACCAACGAGAAGATCCAGCTGAGCTCCC
TCATTGCTGCATTTCAAGTCACCAGAGACCTGATTGTTGCAGAGGCCTAG

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_181578 unedited
TACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGAGGGTCTCAGGGTCAGGTCGC
GGCTGGTCACTGTGCAGGCGCTTGGGTGACGCGACGATCTCAGCGGATCTGGTCACCTTC
GTCTCCCCGCCATGGAGACCTCAGCACTCAAGCAGCAGGAGCAGCCCGCGGCGACCAAGA
TCAGGAACCTGCCCTGAGACAGGGTCTCGCTCTGTCGCCCATGCTGGAGCGCAGTGGTGT
GATCACAGCTCAGTGTAACCTCAAACATTGGGGTTCAAGCCATTCTCCTGCCTCAGCCTC
CGAAGAACTGGGACTTTTAGAGGCGAGCTACCAAGCCCATCCTGTAACCATTTTAAAATG
TACAATTCAGTGGCATTAAGTACATTCAGAATGCAGTGTACTGTTGTGGAGTCTTCCCGC
TATCTAGTTCCAAAATTTCATCACCCCAAATGGAAATCCTGTACCCATTGACAGTTACTC
CCCATTCTCCCCTTCCTCTAGCCCCTGGCAACCACTAATCTGCTTTCTATCTATGGATTT
GCCTATTCTGGACATTTCATGGTTGAAAAATACCGGCCACAGACCCTGAATGATCTCATT
TCTCATCAGGACATTCTGAGTACCATTCAGAAGTTTATCAATGAAGACCGACTGCCACAC
TTGCTTCTCTACGGTCCCCCAGGGACAGGCAAGACATCTACCATCCTAGCCTGTGCGAAA
CAGCTATATAAAGACAAAGAATTTGGCTCCATGGTCTTGGAGCTGAATGCTTCANATGAC
CCGAGAATAGACATCATTCGAGGACCGATCCCTGGCTTTGCTAGCACAAGGACANNTATT
AGAAAGGCTTNAGCTANTGATCTTGGATGAGCAGACGCATGACTCAGGACGCCCAAATGC
CCTGAGGAGAGTATGAAAANTCACAGAATACCANATCTGCCCATCTGTACTATTGTAAAA
A

Restriction Sites: NotI-NotI

ACCN: NM_181578

Insert Size: 4700 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_181578.1, NP_853556.1

RefSeq Size: 2483 bp

RefSeq ORF: 768 bp

Locus ID: 5985

UniProt ID: P40937

Cytogenetics: 12q24.23

Protein Families: Stem cell - Pluripotency

Protein Pathways: DNA replication, Mismatch repair, Nucleotide excision repair

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]
Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region, and uses an alternate start codon, compared to variant 1. The resulting isoform (2) has a distinct and shorter N-terminus, compared to isoform 1. Variants 2 and 3 encode the same isoform (2).