

## Product datasheet for **RC209460**

### RECQL5 (NM\_004259) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RECQL5 (NM_004259) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RECQL5
Synonyms:	RECQ5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209460 representing NM_004259 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCAGCCACCATAACCACCTTTCCTTTTGACCCTGAGCGGCGAGTCCGGAGTACGCTGAAGAAGGTCT  
TTGGGTTTGACTCTTTAAAGACGCCTTTACAGGAGAGTGCACCATGGCTGTAGTAAAAGGTAACAAGGA  
CGTCTTTGTGTGCATGCCACAGGGCAGGAAAATCCCTATGCTATCAGCTCCCTGCTCTGTTGGCCAAA  
GGCATCACCATTGTAGTCTCCTCTCATTGCTTTGATTGAGGACCAAGTGGACCACTTGCTAACCTAA  
AGGTACGAGTAAGTTCCTGAAGTCTGCAAGTCTCTGCACAGGAAAGGAGAGTCTGCTGACCTGGA  
GCGAGAAAAGCCCGAGCAAGATTCTGTACATACCCCGAGAGATGGCAGCTTCATCCTCCTCCAGCCC  
ACCCTGAAGTCCCTGGTGTCCCGCCACCTGCTGTCTTACTTGGTGGTGGATGAAGCTCATTGTGTTTCCC  
AATGGGGCATGACTTTTCGTCCTGACTACTTGCCTGCTGGGTGCCCTGCGCTCCCGCTGGGACATGCCCC  
TTGTGTGGCTCTGACCGCCACAGCCACCCACAGGTCCAAGAGGACGTGTTTGTGCTGCCCTGCACCTGAAG  
AAACCAGTTGCCATCTTCAAGACTCCCTGCTTCCGGGCCAACCTCTTCTATGATGTGCAATCAAGGAAC  
TGATTTCTGATCCCTATGGGAACCTGAAGGACTTCTGCCTAAGGCTCTGGACAGGAGGCTGATAAAGG  
GTTATCTGGCTGCGGCATTGTGTACTGCAGGACTAGAGAGGCTTGTGAACAGCTGGCCATAGAGCTCAGC  
TGCAGGGGTGTGAACGCCAAGGCTTACCATGCAGGGCTGAAGGCCTCTGAAAGAAGCCTGGTGCAGAACG  
ACTGGATGGAGGAGAAGTCCCTGTAATTGTTGCAACCATTAGTTTTGGGATGGGAGTGGATAAAGCCAA  
TGTCAGGTTTGTGCGCCATTGGAATATTGCCAAGTCTATGGCTGGTACTACCAGGAGTCTGCGCCGGCT  
GGCAGGGATGGGAAGCCTTCTGGTGCCGCTCTCTATTACTCCAGGAATGACCGGGACCAAGTCAAGCTTCC  
TGATCAGGAAGGAGTAGCAAACTCCAGGAAAAGAGAGGAAACAAGCATCTGATAAAGCCACTATCAT  
GGCCTTTGATGCCCTGGTACCTTCTGTGAAGAACTGGGGTCCCGCCATGCCGCCATTGCCAAGTACTTC  
GGGGATGCGCTGCCTGCCTGCGCAAAGGCTGCGACCACTGCCAGAACCCACGGCCGTGCGGAGGCGGC  
TGGAGGCCTTGGAGCGCAGCAGCTGGAGCAAGACCTGCATCGGGCCCTCCAGGGGAACGGCTTTGA  
CCCCGAGCTGTATGAGGGAGGCCCAAGGGCTACGGGACTTCAGCAGGTATGACGAAGGTTCTGGAGGC



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AGCGGGGATGAAGGCAGAGATGAGGCCACAAGCGGGAGTGGAACCTCTTCTATCAGAAGCAGATGCAGC
TGCGCAAGGGCAAAGACCCCAAGATAGAAGAATTTGTACCCCAAGATGAGAACTGTCCCCTGAAAGAGGC
TTCTAGCAGGAGGATCCCCAGGCTGACTGTGAAGGCACGGGAGCACTGCCTGCGGCTTCTGGAGGAGGCG
CTGAGCAGCAACCGCCAGTCAACACGTACCGCTGATGAAGCTGACCTCCGGGCCAAGGCCGTGGAGCTGG
AACATGAGACATTCGGAAACGCCAAGGTGGCCAACCTCTACAAGGCCAGCGTGTGAAGAAGGTGGCCGA
TATCCACAGACCTCAAGGATGGGCAGCCCTATGACATGGGAGGCAGTGCCAAGAGCTGCAGTGCCCAA
GCTGAGCCCGGAGCCCAATGAGTATGACATTCACCAGCCTCCCATGTGTACTCGCTCAAACCCAAAGC
GGGTGGGAGCTGGTTTCCCAAAGGCTCCTGCCGTTCCAGACGGCCACGGAAGTGGAGACAACCTCG
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CTGGATGAGGATGGGAGTGAGCCCTCCCTGGGCCAGAGGGGAGGTCCCTGGAGGCAGCGCTCACTATG
GGGGGCCCTCCCCTGAGAAGAAGGCAAAAAGTTCTCTGGGGCAGCTCCCTTGCCAAGGGCCGGGCTAG
CAAGAAACAGCAGCTCTAGCCACAGCGGCCACAAGGATTCTCAGAGCATCGCCCGCTTCTTCTGCCGA
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AGAGCCAGCCTCAGAAGAGGCCACGCCCCCAGCCAAGCCCTCCGTCTGAGTGTAGGTCGAAGGGCAGCGT
CTCGGCCAGCGAACAGGGCACCTTGAAATCCCACGGCTCAAGACCCCTTCCAGCTCTCCGCTCCTGGCGTC
TCCTTGAAGGAGGCTGCAAAATGTTGTGGTCAAGTGCCTCACCCCTTTCTACAAGGAGGGCAAGTTTGCTT
CCAAGGAGTTGTTAAAGGCTTTGCCCGCCACCTCTCACACTTGCTGACTCAGAAGACCTCTCCTGGAAG
GAGCGTGAAAGAAGAGGCCAGAACCTCATCAGGCACTTCTTCCATGGCCGGGCCGGTGCAGAGCGAA
GCTGACTGGCATGGCCTGTGTGGCCCCAGAGA
    
```

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ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
    
```

**Protein Sequence:**

>RC209460 representing NM\_004259  
 Red=Cloning site Green=Tags(s)

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MSSHHTTFPFDPERRVRSTLKKVFGFDSFKTPLQESATMAVVKGNKDVFCMPTGAGKSLCYQLPALLAK
GITIVVSPALIALIQDQVDHLLTLKVRVSSLNSKLSAQERKELLADLEREKPKTKILYITPEMAASSSFQP
TLNSLVSRHLLSYLVVDEAHCVSQWGHDFRPDYLRGALRSRLGHAPCVALTATATPQVQEDVFAALHLK
KPVAIFKTPCFRANLFYDVQFKELISDPYGNLKDCLKALGQEADKGLSGCGIVYCRTREACEQLAIELS
CRGVNAKAYHAGLKASERTLVQNDWMEEKVPVIVATISFGMGVDKANVRFVAHWNIKSMAGYYQESGRA
GRDGKPSWCRLYYSRNRDQVSFLIRKEVAKLQEKRGNKASDKATIMAFDALVTFCEELGCRHAAIAKYF
GDALPACAKGCDHCQNPTAVRRRLEALERSSWSKTCIGPSQNGFDPELYEGGRKGYGDFSRDEGSSG
SGDEGRDEAHKREWNLFYQKQMLRKGKDPKIEEFVPPDENCPLKEASSRRIPRLTVKAREHCLRLLEEA
LSSNRQSTRTADLRAKAVELEHETFRNAKVANLYKASVLLKVAADIHRASKDGPYDMGGSKSCSAQ
AEPPEPNEYDIPPASHVYSLKPKRVGAGFPKGSCPFQTATELMETTRIREQAPQPERGGEHEPPSRPCGL
LDEDGSEPLPGPRGVEPVGSAHYGGPSPEKKAKSSSGSSLAKGRASKKQQLATAAHKDSQSIAARFFCR
RVESPALLASAPEAEGACPSCEGVQPPMAPEKYTGEEDGAGGHSPAPPQTEECLRERPSTCPPRDQGT
EVQPTPAKDTWKGKRRSQENPESQPQKRPRPSAKPSVVAEVKGSVSASEQGLNPTAQDPFQLSAPGV
SLKEAANVVVKCLTPFYKEGKFAKELFKGFARHLSHLLTQKTSPPGRSVKKEEAQLIRHFFHGRARCESE
ADWHGLCGPQR
    
```

```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
    
```

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8025\\_e06.zip](https://cdn.origene.com/chromatograms/mk8025_e06.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_004259

**ORF Size:** 2973 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\\_004259.7](#)

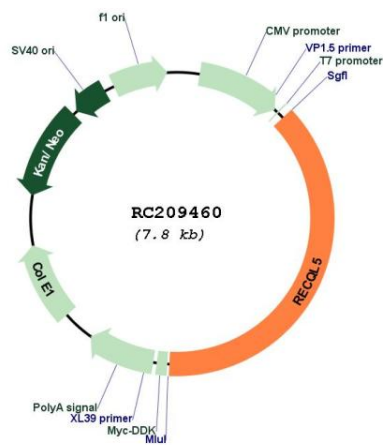
**RefSeq Size:** 3733 bp

**RefSeq ORF:** 2976 bp

**Locus ID:** 9400  
**UniProt ID:** [O94762](#)  
**Cytogenetics:** 17q25.1  
**Domains:** DEAD, helicase\_C  
**MW:** 108.7 kDa

**Gene Summary:** The protein encoded by this gene is a helicase that is important for genome stability. The encoded protein also prevents aberrant homologous recombination by displacing RAD51 from ssDNA. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2011]

### Product images:



Circular map for RC209460