

Product datasheet for **RR203532**

Recql (NM_001012098) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Recql (NM_001012098) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Recql
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR203532 representing NM_001012098
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTTCCATCCAGCTCTAACGGATGAAGTGGAGTCTGTGTCCAGTGAGCTCCATGCAGTTGACATCC
 AGATTCAGAAGTACAGAGAGGAGCAGCAGAGCTCCTTACAGAAAAGTCAGTCCTGACAAAAGAGAATCAA
 GCAGTGCTTAGAGGACTCTGCTGCCGAGGCGAGCGGCGACTGTGACACGCTCCAGCTGCATGGAGTAAA
 GAAGATTTCCCATGGTCCGAAAAGGTAACATGTGCTGCGAGATGTGTTTAACTGCAGAAGTTCAGAC
 CTCTGCAGCTGGAGACTGTCAATGCCACCATGGCGAGAAAAGGACATCTTTCTTGCATGCCACAGGAGG
 AGGGAAGAGCTTGTGCTACCAGCTGCCAGCGCTGTGCTCAGACGGTTTTACTGTTGATTTGTCCACTC
 ATCTCTTATGGAAGATCAGCTGATGGTTTTACAACAGTTGGGATTTACGCTACTATGTTGAATTCCT
 CTAGCTCTAAGGAACATGTAATGTGTGCACACTGAAATGATGAATAAAAACTCCACTTAAAGCTGAT
 TTATGTGACTCCAGAGAAAATTGCAAAAAGCAAGATGTTTATGTCGAGGCTAGAGAAAAGCCTATGAGGCC
 GGGAGACTGACTGGAGTGGCGGTGGATGAAGTGCATTGCTGCAGTCAGTGGGACATGACTTCAGGCCGG
 ATTACAAAAGCACTCGGCATCTTGAAGCGCCAGTTTCCCAACATCTCACTGATTGGGCTGACAGCAACAGC
 AACCAACCATGTTTTGAAGGATGCACAGAAAATCCTATGTGTGGAGAAAATGTTTGACATTTACAGCGTCT
 TTCAACAGACCAATCTCTACTATGAGGTTTCGGCAGAAGCCCTCGAGTGTGAAGACTTTATCGAAAACA
 TTGCAAACCTTATTAATGGACGGTACAAAGGAAAGTCAGGAATCATATACTGTTTTTCTCAGAAAAGACTC
 TGAACAAGTCACCATTAGCTTACAGAAGCTGGGGTCCGTGCAGGCCTTACCATGCCAACATGGAGCCG
 GAGGACAGGACCAAGGTTACACGCAGTGGTCAAGCAATGAGCTTCAAGTGGTGTAGTGGCAACAGTCCGAT
 TTGGCATGGGAATTGATAAGCCTGACGTGAGGTTTGTGTCATCCATCAATGAGCAAAATCCATGGAGAA
 TTACTACCAAGAGAGTGGCGTCCGGTCGAGATGACTGGAGAGCAGACTGTATTCTGTATTACGGCTTC
 GGAGACATATTCAGGATCAGCTCGATGGTGTGATGGAGAATGTGGGACAGCAGAAGCTGTATGAGATGG
 TGTCACTGCCAGAATATCAGCAAGTGTCCCGTGCCTTAATAGCCCAACATTTTATGAAAGTGTGGAA
 TGCAGACGCCTGTAAACAAAATGTGTGACAACTGCTGTAAGACGACTCGTTTGGAGAAAAGAATATAACC
 GAGCACTGCCAAGCCCTGATCAAGATTCTGAAGCAGGCAGAAGGACTGAATGAAAAGCTCACCCACTGA
 AGCTGATTGATGCTTGGATGGGAAAGGGAGCAGCAAGTTCAGAGTGGCTGGCGTTGCTGTCCAGCCCT
 TCCCGGAGAAGACCTGGAGAAAATCATCGTACATGCTCTCCTGCAGCAGTATCTCAAGGAAGACTACAGC
 TTCACGGCTTATGCTACCATCTCGTATCTGAAGGTGGGACCCAGAGCTAGTCTTCTTAGCAACGAAGGCC
 ATGCTGTCACTATGCAAGTGAAGAGTCCACACAGAGCAGCGTTAGGGCTGCGTCACCTGAAGCTTGTGA
 AGTGGATTCAAAGGGGAAAAGAAAAGAGCTCAGCAGTACTATGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR203532 representing NM_001012098
 Red=Cloning site Green=Tags(s)

MASIPALTDELESVSELHAVDIQIQELTERQHELLQRKSVLTKRIKQCLEDSSAAEASGDCDTPAAWSK
 EDFPWSGKVKHVLRDVFKLQKFRPLQLETVNATMARKDIFLVMPTGGGKSLCYQLPALCSDFGFTLVICPL
 ISLMEDQLMVLQQLGISATMLNSSSSKEHVKCVHTEMMNKNSHLKLIYVTPEKIAKSKMFMRSLEKAYEA
 GRLTGAVDEVHCCSQWGHDFRPDYKALGILKRQFPNISLIGLTATATNHVLKDAQKILCVEKCLTFTAS
 FNRPNLYEVRQKPSAEDFIENIANLINGRYKKGSGIICYFSQKDESEQVTISLQKLGVRAGTYHANMEP
 EDRTKVHTQWSANELQVVVATVAFGMGIDKPDVRFVIHHSMSKSMENYYQESGRAGRDDWRADCILYYGF
 GDIFRISSMVMENVGQKLYEMVSYCQNI SKRRALIAQHFDEVVNADACNMCDNCKDSDSFEKKNIT
 EHQALIKILKQAEGLNEKLTPLKIDAWMGGAAKFRVAGVAVPALPREDLEKIIIVHALLQYLKEDYS
 FTAYATISYLKVGPRASLLSNEGHAVTMQKRSTQSSVRAASPEACEVDSKGKEKSSAVLC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001012098

ORF Size: 1863 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_001012098.1](#), [NP_001012098.1](#)

RefSeq Size: 2427 bp

RefSeq ORF: 1866 bp

Locus ID: 312824

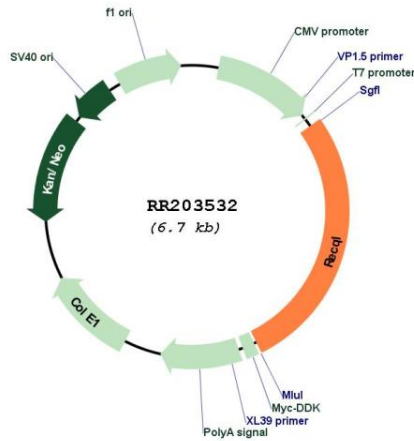
UniProt ID: [Q6AYJ1](#)

Cytogenetics: 4q44

MW: 69.6 kDa

Gene Summary: DNA helicase that may play a role in the repair of DNA that is damaged by ultraviolet light or other mutagens. Exhibits a magnesium-dependent ATP-dependent DNA-helicase activity that unwinds single- and double-stranded DNA in a 3'-5' direction (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR203532