

Product datasheet for **MR230749**

Recql (NM_001204906) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Recql (NM_001204906) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Recql
Synonyms:	RecQ1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>MR230749 representing NM_001204906
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCATCCGTCTCAGCTTTGACAGAGGAAGTGGAAATCCGTAGCCAGTGAGCTTTCATGCCATTGACATCC
 AGATTCAGGAACACACAGAGAGCGCAAGAGCTCCTTCAGAGAAAGTCAGTCTGACAGGGAAAAATCAA
 ACAGTACTTGGAGGACTCTTCGGCTGAGGCGAGCAGCGACTTGGACACATCACCAGCTGCTTGAATAAA
 GAAGATTTTCCATGGTTCGAAAAGGTAAAAGATGTGCTGCAAAATGTTTTAACTGCAAAAATTCAGAC
 CTCTGCAGCTGGAACCATCAATGTCACCATGGCTAGAAAAGGATATCTTTCTTGCATGCCACAGGAGG
 AGGGAAGAGCTTATGCTACCAGCTACCTGCGCTGTGCTCAGACGGTTTTACACTTGTGATTTGCCACTC
 ATCTCTCTTATGGAAGATCAGCTGATGGTTTTAAACAGTTGGGAATTCAGCTACTATGTTGAATGCTT
 CCAGCTCTAAGGAACATGTAATGAGGTGCACGCTGAAATGGTGAATAAAAACTCCAGTTAAAGCTGAT
 TTATGTAATCCAGAGAAAATTGCAAAAAGCAAGATGTTTCATGTCAAGACTGGAGAAAGCCTATGAAGCC
 GGGAGGCTGACGGGAGCGCAGTGGATGAAGTGCATTGCTGCAGTCAAGTGGGTCATGACTTCAGGCCTG
 ATTATAAGGCTCTTGGCATCTTGAAGCGCCAGTTTCCCAACGCCTCACTGATGGGGCTGACTGCAACAGC
 AACCAACCATGTTCTGAAGGATGTACAGAAAATCCTGTGTGTGGGAAAAGTGTGACTTTTACAGCGTCT
 TTCAACCGGCCAAATCTTTTTATGAGGTTTCGGCAAAAAGCCCTCAAGTGTGAAGACTTTACTGAGGACA
 TTGTCAAGCTAATTAATGGACGGTACAAAGGACAATCAGGAATCATATACTGTTTCTCAGAAAAGACTC
 TGAACAAATTACCATCAGTTTACAGAAGTTGGGAATTCATGCAGGCACCTACCATGCCAATATGGAACCA
 GAAGATAAGACCAAGTTTCATACACAGTGGTCAGCCAATGAGCTTCAGGTGGTAGTGCAACAGTCCGAT
 TTGGCATGGGAATTGATAAGCCAGACGTGAGGTTTGTCCATCCATCATTCAATGAGCAAAATCCATGGAGAA
 TTAATCAAGAGAGCGGCGTGCCTGCGGATGACTCGAGAGCAGACTGTATTCTGTATTACGGCTTT
 GGGGACATATTCAGGATCAGCTCGATGGTGGTTCATGGAGAACGTGGGCGCAGCAGAAGCTGTATGAGATGG
 TGTCACTGCCAGAATGTGAGCAAGTGTGCGCGTGTGTTAATAGCACAGCATTTTATGAGAGTGTGGAA
 CGCAGATGCCTGTAAACAAAATGTGTGACAACTGCTGTAAGACGTTTCGTTTGGAGAAAAGAAATGTGACA
 CAGCACTGCCGGACCTGATAAAGATTCTGAAGCAGGCTGAAGGCCTGAATGAAAAGCTGACCCCGCTGA
 AGCTGATTGATGCTTGGATGGGAAAGGGAGCAGCAAGTTGAGAGTGGCTGGCGTTGTTGCCCGGCCCT
 TCCCGGGAAGACCTGGAGAGAATCGTCGCCCACGCCCTCCTGCAGCAATATCTCAAAGAAGACTACAGC
 TTCACGGCTTACGCCACCATCTCTATCTGAAGGTGGGACCCAGAGCTTGTCTTCTCAGCAACGAAGCCC
 ATGCTGTCACTATGCAAGTGAAGAAGTCAGCACAGAGCAGCGTTAGGGGTGCACTGTCTGAAGCTCGTCA
 GGTGGAACAAGTGGATTGGAAGGGGAAGAGCAAGCTCAGACACACCAGACAAGAGCATCAGATCCCAT
 TACAGATGGTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230749 representing NM_001204906
Red=Cloning site Green=Tags(s)

MASVSAL TEELESVASELHAIDIQIQEL TERRQELLQRKSVLTGKIKQYLEDSSAEASSDLTSPAAWNK
EDFPWFGVKVDVLQNVFKLQKFRPLQLETINVTMARKDIFLVMPTGGGKSLCYQLPALCSDFTLVICPL
ISLMEDQLMVLKQLGISATMLNASSSKEHVKVVHAEMVNKNSQLKIYVTPKEIAKSKMFSRLEKAYEA
GRLTGAAVDEVHCCSQWGHDFRPDYKALGILKRQFPNASLMGLTATATNHVLKDVQKILCVGKCLTFTAS
FNRPNLFYEVQRKPSSAEDFTEDIYKLINGRYKQSGIIYCFSQKDSEQITISLQKLGIHAGTYHANMEP
EDKTKVHTQWSANELQVVVATVAFGMGIDKPDVRFVIHHSMSKSMENYYQESGRAGRDDSRADCILYYGF
GDIFRISSMVMENVGQQKLYEMVSYCQNVSKRRVLI AQHFDEVNADACNKMCDNCKDVSFEKKNVT
QHCRDLIKILKQAEGLNEKLTPLKIDAWMGKGAALKRVAGVVPALPREDLERIVAHALLQQYLKEDYS
FTAYATISYLVKVGPRACLLSNEAHAVTMQVKKSAQSSVRGALSEARQVEQVDSKGEEQSSDTPDKSIRSH
YRWL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001204906

ORF Size: 1902 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_001204906.1](#), [NP_001191835.1](#)

RefSeq Size: 3067 bp

RefSeq ORF: 1905 bp

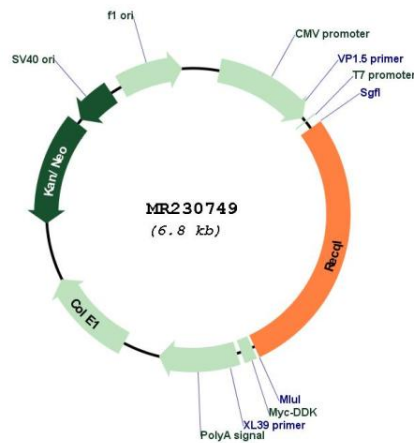
Locus ID: 19691

Cytogenetics: 6 73.91 cM

MW: 71.8 kDa

Gene Summary: Isoform alpha is a DNA helicase that may play a role in the repair of DNA that is damaged by ultraviolet light or other mutagens. Isoform beta may have important roles in the meiotic process. Both isoforms exhibit a magnesium-dependent ATP-dependent DNA-helicase activity that unwinds single- and double-stranded DNA in a 3'-5' direction.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230749