

## Product datasheet for **MR226438**

### Recql (NM\_023042) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Recql (NM_023042) 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:

>MR226438 representing NM\_023042  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
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**Protein Sequence:** >MR226438 representing NM\_023042  
 Red=Cloning site Green=Tags(s)

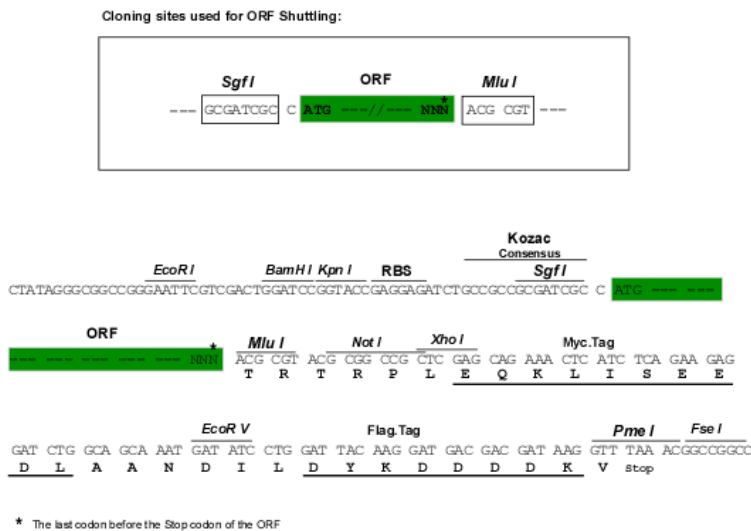
```
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QHCRDLIKILKQAEGLNEKL TPLKLDI AWMGKGA AKLRVAGV VAPAL PREDLERI VAHALL QYQLKEDYS
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```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9058\\_e03.zip](https://cdn.origene.com/chromatograms/mm9058_e03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_023042

**ORF Size:** 1944 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\\_023042.3](#), [NP\\_075529.2](#)

**RefSeq Size:** 3389 bp

**RefSeq ORF:** 1947 bp

**Locus ID:** 19691

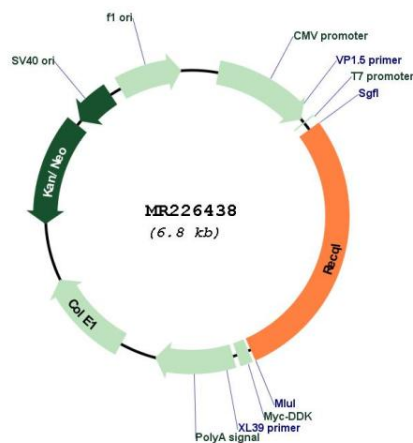
**UniProt ID:** [Q9Z129](#)

**Cytogenetics:** 6 73.91 cM

**MW:** 72.5 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 MR226438