

Product datasheet for **MC220069**

Recql (NM_023042) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Recql (NM_023042) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Recql
Synonyms:	RecQ1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220069 representing NM_023042
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCATCCGCTCAGCTTTGACAGAGGAAGTGGAAATCCGTAGCCAGTGAGCTTTCATGCCATTGACATCC
 AGATTCAGGAACCTCACAGAGAGGCGCAAGAGCTCCTTCAGAGAAAGTCAGTCCTGACAGGGAAAATCAA
 ACAGTACTTGGAGGACTCTTCGGCTGAGGCGAGCAGCAGCTTGGACACATCACCAGCTGCTTGGAAATAAA
 GAAGATTTTCCATGGTTCGAAAAGGTAAAAGATGTGCTGCAAAATGTTTTTAACTGCAAAAATTCAGAC
 CTCTGCAGCTGGAACCATCAATGTCACCATGGCTAGAAAGGATATCTTTCTTGCATGCCACAGGAGG
 AGGGAAGAGCTTATGCTACCAGCTACCTGCGCTGTGCTCAGACGGTTTTACACTTGTGATTTGCCACTC
 ATCTCTCTTATGGAAGATCAGCTGATGGTTTTAAACAGTTGGGAATTCAGCTACTATGTTGAATGCTT
 CCAGCTCTAAGGAACATGTAATAAGGTGCACGCTGAAATGGTGAATAAAAACTCCAGTTAAAGCTGAT
 TTATGTAAGTCCAGAGAAAATTGCAAAAAGCAAGATGTTTCATGTCAAGACTGGAGAAAGCCTATGAAGCC
 GGGAGGCTGACGGGAGCGCAGTGGATGAAGTGCAATTGCTGCAGTCAGTGGGGTCATGACTTCAGGCCTG
 ATTATAAGGCTCTTGGCATCTTGAAGCGCCAGTTTCCCAACGCCCTCACTGATGGGGCTGACTGCAACAGC
 AACCAACCATGTTCTGAAGGATGTACAGAAAATCCTGTGTGTTGGGAAAGTGTGACTTTTACAGCGTCT
 TTCAACCGGCCAAATCTTTTTATGAGGTTTCGGCAAAAAGCCCTCAAGTGTGAAGACTTTACTGAGGACA
 TTGTCAAGCTAATTAATGGACGGTACAAAGGACAATCAGGAATCATATACTGTTTCTCAGAAAGACTC
 TGAACAAATTACCATCAGTTTACAGAAGTTGGGAATTCATGCAGGCATTACCATGCCAATATGGAACCA
 GAAGATAAGACCAAGGTTACATACACAGTGGTCAAGCAATGAGCTTCAGGTGGTAGTGGCAACAGTCGCAT
 TTGGCATGGGAATTGATAAGCCAGACGTGAGGTTTGTCCATCCATTCATGAGCAATCCATGGAGAA
 TTAATCAAGAGAGCGGGCGTGCCTGCGGATGACTCGAGAGCAGACTGTATTCTGTATTACGGCTTT
 GGGGACATATTACAGGATCAGCTCGATGGTGGTTCATGGAGAACGTGGGGCAGCAGAAGCTGTATGAGATGG
 TGTCACTGCCAGAATGTGAGCAAGTGTGCGCGTGTGTTAATAGCACAGCATTTTATGAGAGTGTGGAA
 CGCAGATGCCTGTAAACAAAATGTGTGACAACTGCTGTAAGACGTTTCGTTTGGAGAAAAGAATGTGACA
 CAGCACTGCCGGACCTGATAAAGATTCTGAAGCAGGCTGAAGGCCTGAATGAAAAGCTGACCCCGCTGA
 AGCTGATTGATGCTTGGATGGGAAAGGGAGCAGCAAGTTGAGAGTGGCTGGCGTTGTTGCCCGGCCCT
 TCCCGGGGAAGACCTGGAGAGAATCGTCGCCACGCCCTCCTGCAGCAATATCTCAAAGAAGACTACAGC
 TTCACGGCTTACGCCACCATCTCTATCTGAAGGTGGGACCCAGAGCTTGTCTTCTCAGCAACGAAGCCC
 ATGCTGTCACTATGCAAGTGAAGAAGTCAGCACAGAGCAGCGTTAGGGGTGCACTGTCTGAAGCTCGTCA
 GGTGGAACAAGTGGATTGCAAGGGGGAAGGCAAGCTCAGGTAAGTCCAGAAAGTCTAAAAGCAGGCTT
 CAGCCATCTGGCTCTAAGAACGCAGGCGCTAAGAAAAGAAAACCTGATGATGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_023042
- Insert Size:** 1947 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_023042.3](#), [NP_075529.2](#)

RefSeq Size: 3389 bp

RefSeq ORF: 1947 bp

Locus ID: 19691

UniProt ID: [Q9Z129](#)

Cytogenetics: 6 73.91 cM

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]

Transcript Variant: This variant (1) encodes the longest isoform (1). Variants 1 and 4 encode the same protein (isoform 1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.