

## Product datasheet for **MC228531**

### Recql (NM\_001204907) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Recql (NM_001204907) 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:** >MC228531 representing NM\_001204907  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCATCCGCTCAGCTTTGACAGAGGAAGTGGAAATCCGTAGCCAGTGAGCTTTCATGCCATTGACATCC  
 AGATTCAGGAACCTCACAGAGAGGCGCAAGAGCTCCTTCAGAGAAAGTCAGTCCTGACAGGGAAAAATCAA  
 ACAGTACTTGGAGGACTCTTCGGCTGAGGCGAGCAGCAGCTTGGACACATCACCAGCTGCTTGAATAAA  
 GAAGATTTTCCATGGTTCGAAAAGGTAAAAGATGTGCTGCAAAATGTTTTTAACTGCAAAAATTCAGAC  
 CTCTGCAGCTGGAACCATCAATGTCACCATGGCTAGAAAAGGATATCTTTCTTGCATGCCACAGGAGG  
 AGGGAAGAGCTTATGCTACCAGCTACCTGCGCTGTGCTCAGACGGTTTTACACTTGTGATTTGCCACTC  
 ATCTCTCTTATGGAAGATCAGCTGATGGTTTTAAACAGTTGGGAATTCAGCTACTATGTTGAATGCTT  
 CCAGCTCTAAGGAACATGTAATAAGGTGCACGCTGAAATGGTGAATAAAAACTCCAGTTAAAGCTGAT  
 TTATGTAACCTCAGAGAAAATTGCAAAAAGCAAGATGTTTCATGTCAAGACTGGAGAAAGCCTATGAAGCC  
 GGGAGGCTGACGGGAGCGCAGTGGATGAAGTGCATTGCTGCAGTCAGTGGGGTCATGACTTCAGGCCTG  
 ATTATAAGGCTCTTGGCATCTTGAAGCGCCAGTTTCCCAACGCCCTCACTGATGGGGCTGACTGCAACAGC  
 AACCAACCATGTTCTGAAGGATGTACAGAAAATCCTGTGTGTGGGAAAAGTGTGACTTTTACAGCGTCT  
 TTCAACCGGCCAAATCTTTTTATGAGGTTTCGGCAAAAAGCCCTCAAGTGTGAAGACTTTACTGAGGACA  
 TTGTCAAGCTAATTAATGGACGGTACAAAGGACAATCAGGAATCATATACTGTTTCTCAGAAAAGACTC  
 TGAACAAATTACCATCAGTTTACAGAAGTTGGGAATTCATGCAGGCATTACCATGCCAATATGGAACCA  
 GAAGATAAGACCAAGGTTACATACACAGTGGTCAGCCAATGAGCTTCAGGTGGTAGTGGCAACAGTCGCAT  
 TTGGCATGGGAATTGATAAGCCAGACGTGAGGTTTGTCCATCCATCATTCAATGAGCAAATCCATGGAGAA  
 TTAATCAAGAGAGCGGGCGTGCCTGCGGATGACTCGAGAGCAGACTGTATTCTGTATTACGGCTTT  
 GGGGACATATTCAGGATCAGCTCGATGGTGGTTCATGGAGAACGTGGGGCAGCAGAAGCTGTATGAGATGG  
 TGTCACTGCCAGAATGTGAGCAAGTGTGCGCGTGTGTTAATAGCACAGCATTTTATGAGAGTGTGGAA  
 CGCAGATGCCTGTAAACAAAATGTGTGACAACTGCTGTAAGACGTTTCGTTTGGAGAAAAGAATGTGACA  
 CAGCACTGCCGGACCTGATAAAGATTCTGAAGCAGGCTGAAGGCCTGAATGAAAAGCTGACCCCGCTGA  
 AGCTGATTGATGCTTGGATGGGAAAGGGAGCAGCCAAGTTGAGAGTGGCTGGCGTTGTTGCCCGGCCCT  
 TCCCGGGGAAGACCTGGAGAGAATCGTCGCCACGCCCTCCTGCAGCAATATCTCAAAGAAGACTACAGC  
 TTCACGGCTTACGCCACCATCTCTATCTGAAGGTGGGACCCAGAGCTTGTCTTCTCAGCAACGAAGCCC  
 ATGCTGTCACTATGCAAGTGAAGAAGTCAGCACAGAGCAGCGTTAGGGGTGCACTGTCTGAAGCTCGTCA  
 GGTGGAACAAGTGGATTGCAAGGGGGAAGACAAAGCTCAGGCTCTCATGCAGCCGACACAGCCGCAAT  
 GTCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001204907

**Insert Size:** 1896 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).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001204907.1, NP_001191836.1</u>
<b>RefSeq Size:</b>	2163 bp
<b>RefSeq ORF:</b>	1896 bp
<b>Locus ID:</b>	19691
<b>UniProt ID:</b>	<u>Q9Z129</u>
<b>Cytogenetics:</b>	6 73.91 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 3' UTR and uses an alternate splice site in the 3' coding region, compared to variant 1. The encoded isoform (3) is shorter and has a distinct C-terminus, compared to 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.</p>