

Product datasheet for **MC228538**

Recql (NM_001204906) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC228538 representing NM_001204906
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCATCCGCTCAGCTTTGACAGAGGAAGTGGAAATCCGTAGCCAGTGAGCTTTCATGCCATTGACATCC
 AGATTCAGGAACCTCACAGAGAGGCGCAAGAGCTCCTTCAGAGAAAGTCAGTCTGACAGGAAAAATCAA
 ACAGTACTTGGAGGACTCTTCGGCTGAGGCGAGCAGCAGCTTGGACACATCACCAGCTGCTTGAATAAA
 GAAGATTTTCCATGGTTCGAAAAGGTAAAAGATGTGCTGCAAAATGTTTTTAACTGCAAAAATTCAGAC
 CTCTGCAGCTGAAAACCAATCAATGTCACCATGGCTAGAAAAGGATATCTTTCTTGCATGCCACAGGAGG
 AGGGAAGAGCTTATGCTACCAGCTACCTGCGCTGTGCTCAGACGGTTTTACACTTGTGATTTGCCACTC
 ATCTCTCTTATGGAAGATCAGCTGATGGTTTTAAACAGTTGGGAATTCAGCTACTATGTTGAATGCTT
 CCAGCTCTAAGGAACATGTAATAAGGTGCACGCTGAAATGGTGAATAAAAACTCCAGTTAAAGCTGAT
 TTATGTAACCTCAGAGAAAATTGCAAAAAGCAAGATGTTTCATGTCAAGACTGGAGAAAGCCTATGAAGCC
 GGGAGGCTGACGGGAGCGCAGTGGATGAAGTGCATTGCTGCAGTCAGTGGGGTCATGACTTCAGGCCTG
 ATTATAAGGCTCTTGGCATCTTGAAGCGCCAGTTTCCCAACGCCCTCACTGATGGGGCTGACTGCAACAGC
 AACCAACCATGTTCTGAAGGATGTACAGAAAATCCTGTGTGTGGGAAAAGTGTGACTTTTACAGCGTCT
 TTCAACCGGCCAAATCTTTTTATGAGGTTTCGGCAAAAAGCCCTCAAGTGTGAAGACTTTACTGAGGACA
 TTGTCAAGCTAATTAATGGACGGTACAAAGGACAATCAGGAATCATATACTGTTTCTCAGAAAAGACTC
 TGAACAAATTACCATCAGTTTACAGAAGTTGGGAATTCATGCAGGCATTACCATGCCAATATGGAACCA
 GAAGATAAGACCAAGGTTACATACACAGTGGTCAGCCAATGAGCTTCAGGTGGTAGTGGCAACAGTCGCAT
 TTGGCATGGGAATTGATAAGCCAGACGTGAGGTTTGTCCATCCATCATTCAATGAGCAAAATCCATGGAGAA
 TTAATCAAGAGAGCGGGCGTGCAGGTCGCGATGACTCGAGAGCAGACTGTATTCTGTATTACGGCTTT
 GGGGACATATTCAGGATCAGCTCGATGGTGGTTCATGGAGAACGTGGGGCAGCAGAAGCTGTATGAGATGG
 TGTCACTGCCAGAATGTGAGCAAGTGTGCGCGTGTGTTAATAGCACAGCATTTTATGAGAGTGTGGAA
 CGCAGATGCCTGTAAACAAAATGTGTGACAACTGCTGTAAGACGTTTCGTTTGGAGAAAAGAATGTGACA
 CAGCACTGCCGGACCTGATAAAGATTCTGAAGCAGGCTGAAGGCCTGAATGAAAAGCTGACCCCGCTGA
 AGCTGATTGATGCTTGGATGGGAAAGGGAGCAGCCAAGTTGAGAGTGGCTGGCGTGTGGCCCGGCCCT
 TCCCGGGAAGACCTGGAGAGAATCGTCGCCACGCCCTCCTGCAGCAATATCTCAAAGAAGACTACAGC
 TTCACGGCTTACGCCACCATCTCTATCTGAAGGTGGGACCCAGAGCTTGTCTTCTCAGCAACGAAGCCC
 ATGCTGTCACTATGCAAGTGAAGAAGTCAGCACAGAGCAGCGTTAGGGGTGCACTGTCTGAAGCTCGTCA
 GGTGGAACAAGTGGATTGGAAGGGGAAGCAAAAGCTCAGACACACCAGACAAGAGCATCAGATCCCAT
 TACAGATGGTTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001204906

Insert Size: 1905 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.

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:	<ol style="list-style-type: none">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:	<u>NM_001204906.1, NP_001191835.1</u>
RefSeq Size:	3067 bp
RefSeq ORF:	1905 bp
Locus ID:	19691
Cytogenetics:	6 73.91 cM
Gene Summary:	<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 (2) differs in the 3' UTR and uses an alternate splice site in the 3' coding region, compared to variant 1. The encoded isoform (2) is shorter and has a distinct C-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>