

Product datasheet for MC222962

Recq15 (NM_130454) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Recq15 (NM_130454) Mouse Untagged Clone
Tag: Tag Free
Symbol: Recq15
Synonyms: RecQ5; Recq5b; Recq15b
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >MC222962 representing NM_130454
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCGCCCGTCTTTCTCCACTCCCTTCGACCGGGAGCGGGAGTCCGGAGCACCCCTGAAGAAAGTCT
 TTGGGTTTGATTCTTTAAAACACCTTTACAAGAGAGTGCACCATGGCTGTAGTAAAGGTGCCGAGGA
 TGTGTTTGTGTGCATGCCACAGGGGCAGGAAGTCTCTGTGCTATCAACTCCCTGCCCTGTTGGCCAGT
 GGGATCACCATTGTAGTCTCCTCTCATTGCCTTGATTGAGGACAGGTAGACCATTTGCTGGCCTTGA
 AGGTACAAGTTAGTCCCTGAAGTCAAAGTCTCGGTACAGGAGGAAGGAGTCTGTCTGACCTGGA
 GCGAGACAAACCTCGGACCAAACCTTTGTACATCACCCAGAGATGGCAGCTTCAGCCTCCTCCAGCCC
 ACCCTGAATCCCTGGTGTCCCGAAACCTGCTCTCCTACTTGGTGGTGGATGAAGCTCATTGCGTTTCCC
 AGTGGGGACATGACTTCCGTCTGACTATTTGCGTCTGGGTGCCCTACGTTCCCGCTTGGACATGCCCC
 GTGCGTGGCTCTGACGGCTACAGCCACCCACAGGTTCAAGAGGATGTGTTTGGCTGCCCTGCACTTGAAG
 CAGCCAGTCGCTCTTTCAAGACTCCCTGTTTCCGGGCCAACCTTCTATGATGTGCAGTTCAAGGAAC
 TGATTTCCGACGTCTATGGCAATCTGAGGGACTTCTGCCTAAGGCTCTGGACAGAAGGCTGAGAACCG
 GTCGTCTCTGGCTGTGGCATTGTCTACTGCAGGACTAGAGAAGCTTGTGAACAACCTGCCATTGAGCTC
 AGCAGCAGGGGTGTGAACGCCAAGGCTTACCACGAGGCTGAAGGCATCTGATAGAACACAGGTACAGA
 ACGAGTGGATGGAGGAGAAGTCCCTGTAATTGTTGCGACCATCAGTTTTGGGATGGGAGTAGACAAGC
 TAATGTCCGGTTTGTGCTCATTGGAATATTGCCAAGTCCATGGCTGGCTACTACCAGGAGTCTGGCCGT
 GCTGGCAGGGATGGCAAACCATCTTGGTCCCGCTGTATTACTCTAGGAATGACCGAGACCAAGTACGCT
 TCCTTATCAGGAAGGAAGTACCCAACTCCAGGAAAAGAGGGGAACAAACCGTCTGATAAGGCCACCT
 GCTGGCCTTTGATGCCCTGGTACCTTCTGTGAAGAAGTGGGTGCCCATGCTGCCATTGCTAAGTAC
 TTTGGGGATGACCCCCCGCTGCGCAAAGGCTGTGACTACTGCCAGAATCCTGCAGCCATAACGAAGA
 AGCTGGATGCCCTGGAGCGCAGCAGCTGGAGCAAGACCTGCATCGGGCCCTCACAGGGGAATGGCTT
 CGATCCTGAGCTGTATGAGGGAGGCCGAGGGGCTATGGTGGCTTCAGCAGGTATGATGAAGTTCTGGA



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GGTAGCGGTGATGAGGGCAGAGATGAGGCCACAAGCGGGAATGGAATCTTTTCTATCAGAAACAGATGA
 GCCTGCGCAAGGGCAAAGAGCCCAAGATAGAAGAATTCACGCCCCAGATGAAGACTGTCCCCTGAGAGA
 GGCTTCAAGCAGGAAGATCCCGAAGCTCACAGTGAAGGCCGTGAGCACTGCCTGCGACTTCTGGAGGAG
 GCTCTGATCAGTAACCATCAGGCTGCAGGCTCCACTCATGGAGCTGACCTGCAGGCCAAGGCTGTGGAAC
 TGGAGCATGAGACATCCGGAATGCCAAGATGGTCAATCTGTACAAGGCCAGTGTCTGAAGAAGGTGGC
 CGAGATCCACAAGCCTCCAAGGATGGTCAGTCTATGACATGCCCAACCTCACATGTGTACTCGCTCAAACCA
 GCAGCTGAGTTCTCGGAGCCCAGTACTGACATGCCCAACCTCACATGTGTACTCGCTCAAACCA
 AGAGAGTAGGAGCTGGCTTCTCCAAAGGCCCTGCTCATTCCAGACAGCCACAGAAGTGTGGGGAAGTC
 TCACTCCAGAAGCAAGCCCCAGAGGCTATGCTAGAGGGTGGACAGGAGCCCCAGGCTGGGTCTGTGAC
 CTTCAAGATGAAGACAGGAGCAAGCCCCACCCTGGGTACCAAGAAAAGGCTCTAGGAAGCAGTGTAAAT
 GTGGGGACCCCTCGCCTGAGAAGAAGACGAAAGGGTCTTCCCAGGGCAGTGCCAAAGCTAGAGCCAGCAA
 GAAACAACAGCTCCTAGCCACAGCAGCCCGAAGGATCCAGAATATCACTCGATTCTCTGTCAGAGG
 ACAGAATCTCCACCTCTCCCTGTTTCAAGATCAGAAGATGCCAGCCCCTCTGTGGGGATGTCC
 CAGGGAAGTGCACACAAGAGGTTGGAGCTCAGGGACATTTGGTTGCTGTATTTCACTGAGGGTCCCAG
 GGAGAGGCCAAGCACCTGCTCACTCAGAGACCAGAGCTTCCCTGAAGGTCAGCCTAGCCCCTAAAGGAA
 ACCCAGGCAGAGAAGCGGCCAGACCACAGCAGGGCAACCCAGAGAGAAGGGCTCAAAGAGGCTTCGCC
 CCTCAACCAAGTCTCCATCTTGGCTGAGGCCAAGGACAGTACCTTGGCCAGTGTATCGCAGCACTGAAAA
 CAAAGTGGCTCAAGAACCCTGCCAGCTCTCAGCATCTGGCACCTCCCTGAGGGAGGCCGAGACATTGTG
 GTCAGGCACCTGACCCCTTCTACAAGGAGGGCAGGTTTATATCCAAGGACCTGTTTAAGGGCTTTGCC
 GCCACCTCTCACATTTGCTGGCTCAGCAGCTCTCTCTGGAAGGAGTGTGAAGGAAGAGGGCCAGAGCCT
 CATCAAGCAGTTCTTCCACAATCGTGCCCGCTGTGAGAGTGAAGTACTGGCACAGCCTGCGTGGCCCA
 CAGCGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_130454

Insert Size:

2949 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_130454.2, NP_569721.1

RefSeq Size:

4001 bp

RefSeq ORF:

2949 bp

Locus ID: 170472

UniProt ID: [Q8VID5](#)

Cytogenetics: 11 E2

Gene Summary: DNA helicase that plays an important role in DNA replication, transcription and repair. Inhibits elongation of stalled transcripts at DNA damage sites by binding to the RNA polymerase II subunit POLR2A and blocking the TCEA1 binding site. Required for mitotic chromosome separation after cross-over events and cell cycle progress. Required for efficient DNA repair, including repair of inter-strand cross-links. Stimulates DNA decatenation mediated by TOP2A. Prevents sister chromatid exchange and homologous recombination (By similarity).[UniProtKB/Swiss-Prot Function]