

## Product datasheet for **RN214401**

### Recq15 (NM\_001105853) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Recq15 (NM_001105853) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Recq15
Synonyms:	RecQ5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN214401 representing NM\_001105853  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGCGCCCGTCTTTCTCCACTCCCTTCGACCGGGAGCGCGAGTCCGGAGCACCTGAAGAAAGTCT  
 TTGGGTTTGATTCTTTAAAACACCTTTACAAGAGAGTGCATCATGGCTGTAGTGAAAGGTGACAAGGA  
 TGTGTTTGTGTGCATGCCACAGGGGCAGGAAATCTCTGTGCTATCAGCTCCCTGCCGTCTGGCTAAA  
 GGGATCACATTGTGGTCTCTCCTCTCATTGCCTTGATTACAGGACCAGGTAGACCACTTGTGGCCTTGA  
 AGGTACAAGTTAGTTCTCTGAACCTCAAAGCTCTCAGTACAGGAGAGGAAGGAGCTGTGTCTGACCTGGA  
 GCGAGACAAACCTCGACCAAACCTCTGTACATCACCCCGGAGATGGCAGCTTCAGCCTCCTCCAGCCC  
 ACCCTGAATCCCTCCTGTCCCGAAACCTGCTCTCCTACTTGGTGGTGGATGAAGCTCATTGCGTTTCCC  
 AGTGGGGACACGACTTCCGGCCTGACTATCTGCGTCTGGGCGCCCTACGTTCCCGCTTAGCATATGCCCC  
 GTGCGTGGCTCTGACAGCTACAGCCACCCACAGGTTCAAGAGGATGTGTTTGTGCCCTGCACTTGAAG  
 CAGCCAGTGGCCTCTTCAAGACTCCCTGTTTCCGGGCCAATCTTCTATGATGTGCAGTTCAAGGAAC  
 TGATTCCTGACGCTATGGCAATCTGAGGGACTTCTGCCTTAAGGCCCTTGACAGAAGGCTGATAACGG  
 GTCGTCATCTGGCTGTGGCATTGTCTACTGCAGGACTAGAGAAGCTTGTGAACAACCTGGCCATTGAGCTC  
 AGCAGCAGGGGTGTAATGCCAAGGCTTACCATGCAGGCTGAAGGCTTCTGAGAGAACGCAGGTACAGA  
 ATGAGTGGATGGAGGAGAAGGTCCTGTGATTGTGGCAACCATCAGTTTTGGGATGGGAGTGGATAAAGC  
 TAATGTCCGGTTTGTGCTCATTGGAATATCGCAAGTCCATGGCTGGCTACTACCAGGAGTCTGGCCGT  
 GCTGGCAGGGATGGTAACCATCTTGGTCCGCTCTATTACTTAGGAATGACCGAGACCAAGTCAGCT  
 TCCTTATCAGGAAGGAACTAGCCAACTCCAGGAAAAGAGGGGGAACAACCATCTGATAAGGCTACCTT  
 GCTGGCCTTTGATGCCCTGGTGACCTTCTGTGAAGAAGTAGGGTGCCGCCATGCCCCATCGCTAAGTAC  
 TTTGGGATGCGCCACCCGCTGCGCAAAGGCTGTGACTGTTGCCAGAGCCCTGCAGCCATAAGGAAGA  
 AGCTTGATGCCCTGGAGCACAGCAGCAGCTGGGGCAAGACCTGCATCGGGCCCTCGCAGGGGACGGCTT  
 CGATCCTGAGCTGTATGAGGGAGGCCCGGGGCTACGGGGGCTTCAAGCAGGTATGATGAAGGTTCCGGA  
 GGCAGCGGTGATGAGGGCAGAGATGAGGCTCATAAGAGAGAGTGGAACTTTTCTATCAGAGACAGATGA  
 GCCTGCGCAAGGGCAAAGAGGCCAAGCCAGAAGAATCACACCCCAAGTGAAGACTGTCCCTGAGAGA  
 TGCTTCAAGCAGGAAGATCCCTAAGCTCACAGTGAAGGCCGTGAGCACTGCCTGAGACTTCTGGAGGAG  
 GCTCTGAACAGTAACCAAGGCTGCAGGCTCCACTCACGGAGCTGACCTACAGGCCAAGGCTGTGGAAC  
 TGGAGCATGAGACATCCGAAGTGCCAAGATGGTCAATCTGTACAAGGCCAGTGTCTCAAGAAGGTGGC  
 TGAGATCCACAAAGCCTCAAGGACGGTCAAGCTCTATGACATGGAAGCAGCACCACAGAGCTGTGGGGCC  
 ATAGCTGAGCTCTTGGAGCCAGTACTATGACATCCCGCAACCTCACATTTGACTCGCTCAAACCCA  
 AGAGAGTAGGAGCTGGCTTCTCTAAAGGCCCTGCCCATCCAGACAGCCACAGAAGCTTTGGGCAAGTC  
 TCAGACCGAGAAGCTGGCCCCAGAGGCTGCACTGGAGAGTGAACAGGAGCCCTCAGGCTGGGTCTGTGAT  
 CCTCAAGATGGAGACAGGAGCAAGCCCTGCCTTGGGTACCAAGAGGAAGCTCCTGGAAGCAGGACTAATT  
 GTGGGGATCCCTCACCTGAGAAGAGGACAAAAGGCTCTCCAGGGCAGTGCCAAGGCTAGGGCCAGCAA  
 GAGACAGCAGCTTAGCCACAGCAGCCGCAAGGACTCCAGAGTATCACCCGATTCCTCCGTCAGAGA  
 ACAGAATGCCCGCCACCCGCTGCTTCCGTCCCAAGTTCAGAAGATGCCAGCCCTGTGGGATGTCCAG  
 GGAAGTGACAGAAGAAGTTGGAGCCAGGGACATTTGGTGGCTGTATTTCAAGCTGAGTGTCCAGGGA  
 GAGGCTAAGCACCTGCTCACTTGAAGACCAGAGCCTCCCCAAAGGTCAGCCTAGCCCTCTAAAGGAAACC  
 CAGGCGGAGAAGAGGCCACAGCCACAGCAGGAAAGCCAAGAGAAGAGGGCTCAGAAGAGGCTTCGCCCT  
 CAACCAACTTCCGCTTGGCCAGTGACCCAGCAGGAGAACAGAGTGGCTCGCGAACCTTGCCAGCT  
 CTCAGCTCCTGGCATCTCCCTGAAAGAGGCTGCAGACATTGTGGTCAAGTACCTGACCCCTTCTACAAG  
 GAGGGCAGGTTTATATCCAAGGACTTGTCAAGGGCTTTGCCCGCACCTCTCACATTTGTGGCTCAGA  
 AGCTCTCTCTGGAAGGAGTGTGAAGGAAGAGGCCAGAGCCTAATCAAGCAGTTCTCCACAACCGTGC  
 CCGGTGCGAGAGTGAAGCTGACTGGCATGGCCTGTGTGGCCACAGCGA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001105853
<b>Insert Size:</b>	2922 bp
<b>OTI Disclaimer:</b>	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).
<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><a href="#">NM_001105853.1</a></u> , <u><a href="#">NP_001099323.1</a></u>
<b>RefSeq Size:</b>	3905 bp
<b>RefSeq ORF:</b>	2922 bp
<b>Locus ID:</b>	287834
<b>UniProt ID:</b>	<u><a href="#">D4ACP5</a></u>
<b>Cytogenetics:</b>	10q32.1
<b>Gene Summary:</b>	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]