

## Product datasheet for **MC219409**

### Rec8 (NM\_020002) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rec8 (NM_020002) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rec8
Synonyms:	mrec; Rec8L1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219409 representing NM\_020002  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTCTACTATCCTAACGTGCTTCAGCGCCACACAGGCTGCTTCGCCACCATCTGGCTGGCAGCAACCC  
 GAGGCAGCCGTTTGGTGAAGCGTGAATACCTAAATGTGAATGTGGTAAAGACCTGCGAGGAAATCCTCAA  
 TTATGTGCTGGTAAGAGTGCAACCTCCGGTGGCCGGGCTGCCCGCCCCCGCTTCTCCCTATCTCTCC  
 GCCCAGCTTCAGATTGGTGTGATAAGGGTCTACTTTCAACAGTGCCAGTACCTTGTGGAAGACATCCAGC  
 ATATCCTGGAGCACCTACATCGTGCCAGCTGCGGATTGCGATTGATATGGAGGAGGCTGACCTACCTAG  
 CTTGCTTCTTCCCAACTGCCTGGCCATGATGGAGACGCTGGAAGATGCCCGAGAACCCTTTTTGGGAAG  
 ATGTCTGTGGATCTAGACTTCCAGTCTTTTGATATTCCTCAGATTGACACCTTTTAGAGGCTGCAA  
 CCCCAGAAAACTCGTAAGGAGACCTTCTGAAGCCACTCCAGACCCAGGAAGCCTGACAGGACCTT  
 GGCCACCGTGCAGTCCCCTGAGGTCATCACCTTACAGGAGGCAGAGCCCATCCGCATGCTGCAGATTGAA  
 GGAGAGCAGGATCTCCAGAGATCAGTCGAGGAGACTTAGAACTGCTGATCGCAGAGAAAGATGACGCCA  
 TCTTGCTAGAGGAACGTAGAGAGGCAGGCTTCTCCGACAGCGGAGAGCTTCACTACCACTGGATGAATC  
 CAGGGAAGAACCCTGGGCCCTAGAAGGTGCTGGTTTGGTCTCGGCACTCTCACCTCCAGCTCCTGCGCAG  
 GTGGAAGGGATACAAGAAGCACTACCAGGCCAGGCTTCCCTCCTGAGGTACAGAAGATGACAGGCTGGG  
 AGCCTGGGGCCCTACTACTGAGGTGACCCACCTCAGGAGCTGCGGCTGCCTGCCACCCAGTACAGA  
 GAAGAGGCTCCGCTCTTCAGAGGCCACTTCCCGCCGACACCGCGCGCCAGTATTATTCTGGGAC  
 AAGGAGACCCAGATCTCTCGGGAGAAGTTGAGGAACAACCTGCAGACTGGGGCTCACTGCTGGGAGTATC  
 CAGTGGCCAGCCTCCCAAGAGGATGCTCACAAGCCAGCGGAGCTTTCAGAACCCTCACTCTCTG  
 CTGGTACCCCCAGAACTCCTAGGTTTATGGACACACTGTGCCAGGTCCCCAAAGAATGCTCAGACAA  
 AGGCCACAGCTGGAGACTGAGGAGACAGTGGAGGAAGAGAGAGCAGCAGATGAGGAAGAGAGGAGAAAGA  
 CTGAAGCTCTGAGCGAGATCGAGGTTCTGAGGGAGGCCAGGAGCCAGTGGTCCCCTCATGCTGTCTTC  
 AGAGCTCTCCCTAGAAGCAGCAGAAGATGAAAAGTCTCGTACTAGCCTCATCCCCCAGAATGGTGGGCC  
 TGGTCTGAGGAGGGCAGCCCGAGCCCCCTGCACTGCCCATGCTGCCTGAACTTCTGAAGTGCCCATGG  
 AGATGCCCCCAAGCCTGAACTCTTTCAGAGGCTGTGCTCAGGGCAGTAGCACTGAAACTGCAGGCCAA  
 CAAGGAGCTGGACTTCAGCAGCCTGGTGGCCCCCTCAGCCCCGAAAGTTGGCTTCTCGGGTCTCTAT  
 CTGCTCTTGGTGTGTCCACACAGAAGATCCTTCTGTGGAACAACAGAAGCCATATGGGCCCTCTGA  
 TTCGTCCTGGACCAAATTCCTCGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_020002  
**Insert Size:** 1776 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<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>	<a href="#">NM_020002.3</a> , <a href="#">NP_064386.2</a>
<b>RefSeq Size:</b>	2055 bp
<b>RefSeq ORF:</b>	1776 bp
<b>Locus ID:</b>	56739
<b>UniProt ID:</b>	<a href="#">Q8C5S7</a>
<b>Cytogenetics:</b>	14 28.19 cM
<b>Gene Summary:</b>	Required during meiosis for separation of sister chromatids and homologous chromosomes. Proteolytic cleavage of REC8 on chromosome arms by separin during anaphase I allows for homologous chromosome separation in meiosis I and cleavage of REC8 on centromeres during anaphase II allows for sister chromatid separation in meiosis II.[UniProtKB/Swiss-Prot Function]