

## Product datasheet for **RN215104**

### Rec8 (NM\_001011916) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rec8 (NM_001011916) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rec8
Synonyms:	Rec8L1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN215104 representing NM\_001011916  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTCTACTATCCCAACGTGCTTCAGCGCCACACAGGCTGCTTCGCCACTATCTGGCTGGCCGCTACCC  
 GGGCAGCCGTTTGGTGAAGCGGAATACCTGAAAGTGAACGTGGTAAAGACCTGCGAGGAAATCCTCAA  
 TTATGTGCTCGTACGAGTGCAACCTCCGATGCCTGGGCTGCCCGCCCCCGCTTCTCCCTATCTCTCC  
 GCCCAGCTTCAGATTGGTGTGATAAGGGTCTACTTTCAACAGTGCAGTACCTTGTGGAAGACATCCAGC  
 ATATCCTAGAGCACCTACACCGGCCAGCTGCGGATTGCATTGATATGGAGGAGGCTGACTTACCTAG  
 CTTGCTTCTTCCCAATTGCCTGGCCATGATGGAGACGCTGGAGGACGCCCGAGAACCCTTTTTGGGACG  
 ATGTCTGTGGACCCTACACTTCCAGTCTTTTGATATTCCTCAGATTGACACCTTTTAGAGGCTGCAA  
 CCCCAGGAAAAATTCGTGAGGAGACCCTTCTGAAGCCACGCCGAGCCAGGAAGCCTGACAGGACCTT  
 GGCCATGTTACAGTCCCCTGAGGTCATCACCTTGCAAGGAGCAGAGCCCATCCGAATGCTCGGATTGAG  
 GGAGAGCAGGATCTCCAGAGATCAGCAGAGGAGACTTAGACCTGCTGATCGCAGAGGAAGATGACGCCA  
 TATTGCTGGAGGAACGTAGAGAGGCAGACTTCTCCGGCAGCGGAGGGCTTCCCCACCACTGGATGAATC  
 CAAGGAAGAGCCCCGGGCCCTGGAAGGAGATGGTTTGGTCTCCTCACTCTCACCTCCAGCTCCTGCACAG  
 GTTGAAGGGATAAGAGAACCCTTCCAGACCAGGCCTTCCCCCTGAGGTACAGAAGATGCCAGGCTGGG  
 AGCCTGGGGTCTACTCACTGAGGTGACCCACCTCAGGAGCTGCGTCTGCCTGCCCCACCGAGTATAGA  
 GAAGAGGCCCCCGTCTCCTCAGAGGCCACCTCGCCGGCCGCGGGGGCCAGTTATTGTTCTGGGAC  
 AAGGAGACCCAGATCTCCCGGAGAAGTTGAGGAACAGCTGCAGACTGGGGCTCACTGCTGCGAGTATC  
 CAGTGGTCCAGCCTCCCAAGAGGAAGCTCATGAGCCAGCGGAGCTTTCAGAACCCTCACTCTCTG  
 CTGGTTATCTCCAGAACTACTAGCTTTATGGACCCATTGTGCCAGGTTCCCCAAGAATGCTCAGACAA  
 AGGCCACAGCTGGAGACTGAAGAGACAGTTGAGGAAGAGAGAGTGGCAGACAAGGAAGAAAGGAGAAAGA  
 CTGAAGCTCTGAGTGAGATTGAGGTTCTGAGAGAGGCCAGGAGCCAGTGGTCCCCTCATGTTGTCTTC  
 AGAGCTCTCCCTAGAAGTAGCAGAAGAAGAAAAATCTCGAACTAGCTTCATCCCTCCAGAAGAACGGTGG  
 GCCTGGATTGAGGAGAGGCAGCCAGAGCCCTGCACTGCCATGCTGCCTGAATTCCTGAAGTCCCCA  
 TGGAGATGCCCCAGGGCTGAACTACTCTTTCAGAGGCTGTGCTTAGGGCAGTGGCTCTGGAGCTGCA  
 GGCTAACAGGGAGCCTGACTTACGAGCCTGGTCCCCCTCTCAGCTCCCGAAAGTTGGCTTCTCGGGTC  
 TTCTATCTGCTTTGGTGTGTCCGCACAGAAGATCCTTCTGTGGACCAACAGAAGCCATATGGGGCC  
 TCCTGATTGCTTAGGACCCAAATCCCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001011916

**Insert Size:** 1782 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\\_001011916.1](#), [NP\\_001011916.1](#)

**RefSeq Size:** 2049 bp

**RefSeq ORF:** 1782 bp

**Locus ID:** 290227

**UniProt ID:** [Q6AYI4](#)

**Cytogenetics:** 15p13

**Gene Summary:** 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 (By similarity).  
[UniProtKB/Swiss-Prot Function]