

## Product datasheet for **RN210437**

### **Mus81 (NM\_001025645) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mus81 (NM_001025645) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mus81
Synonyms:	MGC112911
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN210437 representing NM\_001025645  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGAGCCGGTCCGCTTGGGCCGGAAGCGTCCGCTGCCTGTTGCCCAACCCGCTCTTCGTTTCGTT  
 GGCTAACCGAGTGGCGGACGAGGCAGCCAGCAGAGGGGCCACACGCGCTTTGTGTTTCAAAGGCACT  
 GCGCTCCCTCCAGCGGTACCCGCTACCATTGCGCAACGGGAAAGAAGCCAAGATACTCCAGCACTTCGGA  
 GACAGGCTCTGTGCGATGCTGGACGAAAGGCTGAAGGAGCACCTAGCATCAGGCGGTGACCATGCCCCCA  
 GCTCACCATCTGGAAAGAAGAGAGCCAGCAAAGGGCCACCTGCCAGGTCCAGGGCTCTTCCATGCCAGT  
 TCCCACCCAGCCTCAAGCAGGAAGCACCAATGCTGGCTATTGGCCAGCTCAGAACTCAGGTGCTCGAGAG  
 ATCCTGCTGCAGCTCTACAGGGAGCACCTGAATTCTGATGGCCACAGCTTCTAACCAAAGAGGAGCTGC  
 TGCAGAAATGTGCCAGAAGACCCCGGGTAGTGCCTGAAAGTTCAAGACCCTGGCCTGCCCTCCGAGG  
 GCTCCTCCACAGGAACCTAGTCTCAGAACTCATCGGCCAGCCAGGTATGCACTGACACCAGAGGGCCTG  
 GAGCTGGCCAGAAAGCTGGCTGAGGCAGAAAGCCCTGAGCACTCTGAACACTGCCTTTACGCCAGAGGAGC  
 ATCATGAAGAGTACCAGTTCAGAAAGCCATCTTGTGAGAACCTGGCACTACTGAGGTGGGCGTCCAACA  
 GAGACCACTGGAGCTAAGGCCTAGCGAGTACAGAGTGTGTTGTGTGGACATTGGCGAAACCAGAGGG  
 GCAGGACACAGGCCAGAAATGCTCCGAGAGTTACAAGACTGCGTGTGCCCATACAGTTCGAAACTGC  
 ATGTTGGGGACTTTGTGTGGGTGGCACAGGAGACCAGGCCAGAGACCCAGAAAGACCTGGGGAGTTAGT  
 CCTGGACCACATTGTGGAACGCAAGCGGCTAGATGACCTGTGCAGCAGCATCATTGACGGCCGCTTTTGA  
 GAGCAGAAGTCCGCCTGAAGCGCTGTGGCTGGGGCACCGGATATACTTGGTAGAGGAACATGGGTCTG  
 TCCAAAACCTTAGCCTTCTGAGAGTACATTGCTGCAGGCTGTCAAAACACCCAGGTCAATTGATGTTT  
 TTTTGTGAAGCGTACCATGGATATTAAGGAGTACGCTGGCTACCTGGCGCTTTTGACAAAGGGCCTGGAA  
 AGACTGTACCAGGGCCACACCCTACACAGCCGCCCTTGGGGAACCCAGGGGATGCTGAATCAGAAGCAA  
 AGCCTTCCACAAACCCTCTCTGCTCACTCCTCACCTTCAGTGACTTCAATGCAGAAGCTGTCAAGAACA  
 GGCCAGTCTGTGCGAGAGGTAATTTGCCCGGCAGCTGATGCAGGTGCGTGGACTGAGTGGGGAGAAGGCA  
 GCAGCCCTGGTGGATCGATACAGCACCCCTGCCAGTCTCCTGGCTGCCTATGATGCCTGTGCCACCACCA  
 AGGAGCAGGAGATGCTGCTGAGCACCGTCAAGTGTGGGCGTCTGCAGAGAAATCTGGGACCTGCTCTGAG  
 CAGGACCTGTACCAGCTGATTGCAGCCACAGCCCTTTGAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001025645

**Insert Size:** 1656 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\\_001025645.1](#), [NP\\_001020816.1](#)

**RefSeq Size:** 1924 bp

**RefSeq ORF:** 1656 bp

**Locus ID:** 293678

**UniProt ID:** [Q4KM32](#)

**Cytogenetics:** 1q43

**Gene Summary:** Interacts with EME1 and EME2 to form a DNA structure-specific endonuclease with substrate preference for branched DNA structures with a 5'-end at the branch nick. Typical substrates include 3'-flap structures, replication forks and nicked Holliday junctions. May be required in mitosis for the processing of stalled or collapsed replication forks (By similarity).  
[UniProtKB/Swiss-Prot Function]