

## Product datasheet for **MR208756**

### **Mus81 (NM\_027877) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mus81 (NM_027877) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mus81
Synonyms:	1200008A18Rik; AI182501; AW045863
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR208756 representing NM\_027877  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGAGCCGGTCCGCTGGGCCGGAAGCGTCCGCTGCCCGTTGCCCAACCCGCTCTTCGTTTCGTT  
 GGCTGACCGAGTGGCGGACGAGGCAGCCAGCAGGGGGCCACACGCGTTTCGTTTCAAAGGCATT  
 GCGCTCCCTCCAACGGTACCCGCTACCATTGCGCAGCGGGAAGGAAGCAAGATACTCCAGCACTTCGGA  
 GACAGGCTCTGCCGATGCTGGACGAAAAGCTGAAGCAGCACCTAGCATCAGCGGTGACCATGCCCCCA  
 GCTCACCATCTGGAAAGAAGGGAGCCAGCAAAGGGCCACCTGAGCAAGTCCAGGACTCTTCCATGCCAGT  
 TCCCACCCAGCCTCAAGCAGGAAGCACCAGTGTGGCTATTGGCCAGCTCAGAACTCAGGTGCTCGAGAG  
 ATCCTGCTGCAACTCTACAGGGAGCACCTGAATTCTGATGGCCACAGTTCCTAACCAAAGAGGAGCTGC  
 TGCAGAAGTGTGCCAGAAGACCCCGGGTAGTGCCTGGAAGTTCGAAACCTGGCCTGCCCTCCGGAG  
 CCTCCTCCATAGGAACCTCATCCTTGGAAACGCATCGGCCAGCCAGGTATGCACTCACACCAGAGGGTCTG  
 GAGCTGGCTCAGAAGCTGGCCGAGGCGGAAGGCCCTGAGCACTCGGCACGCTGGCTTTAGGCCAGAGGAAC  
 ATCACGGAGAGGACTCAGCAGTTCAGAAAGCCTTGTGAGAACCTGGCACCCAGGAGGGCCGCTCCAGCA  
 GAGACCACTGGAGCTAAGGCCTAGCGAGTACAGAGTGTGTTGTGTGGACATTGGCGAAAACAGAGGG  
 GCAGGACACAGGCCAGAAATGCTCCGAGAGTTACAAAGGCTGCGTGTGCCCCACACCGTACGCAAGCTAC  
 ACGTTGGAGACTTTGTGTGGGTGGCACAGGAGACCAGGCCAGAGACCCAGAAAGACCTGGGGAGCTGGT  
 CCTGGACCACATTGTGGAACGCAAGCGGCTAGATGACCTATGCAGCAGCATCATTGACGGCCGCTTTCGG  
 GAGCAGAAGTCCGCCTGAAGCGCTGTGGCTGGGGCACCGGGTATACTTAGTGAAGAACATGGGTCTG  
 TCCACAACCTTAGCCTTCCCGAGAGCACCTTGTGCAGGCTGTCAAAACACCCAGGTCAATTGATGGCTT  
 TTTTGTGAAGCGAACCATGGATATTAAGGAGTCCGGCTGGCTACCTGGCGCTTTTGACAAAGGGCCTGGAA  
 AGACTGTACCAGGGCCACACCCTACGCAGCCGCCCTGGGGGGCCCCAGGGGCTGTGAATCAGAAGCAA  
 AGCCTTCCACAAACCTCTCTGCTCACTCCTCACCTTCAGTGACTTCAATGCAGAAGCTGTCAAGAACAA  
 GGCCAGTCTGTGCGAGAAGTATTTGCCCGGCAGCTGATGCAGGTGCGTGGACTGAGTGGGGAGAAGGCA  
 GCAGCCGTGGTGGATCGATACAGCACCCCTGCCAGTCTCCTGGCTGTTATGATGCCTGTGCCACCCGCA  
 AGGAGCAGGAGATGCTCTTGAGCACCATCAAGTGTGGCGCTGCAGAGGAATCTGGGACCCGCTCTGAG  
 CAGGACCTGTACCAGTGTACTGCAGCCACAGCCCTCTGAGC

**ACGCGGCCGC**TCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAA  
 TTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208756 representing NM\_027877  
 Red=Cloning site Green=Tags(s)

MAEPVRLGRKRPLPVCNPFLFVRWLTEWRDEAASRGRHTRFVFQKALRSLQRYPLPLRSGKEAKILQHFG  
 DRLCRMLDEKLKQHLASGGDHAPSSPSGKKGASKGPPEQVQDSSMPVPTQPQAGSTSVGYWPAQNSGARE  
 ILLQLYREHLNSDGHSFLTKEELLQKCAQKTPRVVPGSSKPWPALRSLHRNLILGTHRPARYALTPEGL  
 ELAQKLAEAEGSTRHAGFRPEEHHGEDSAVPEALSEPGTTEGAVQQRPLELRPSEYRVLLCVDIGETRG  
 AGHRPEMLRELQRLRVPHTVRKLVHVGDFVWVAQETRPDPERPGELVLDHIVERKRLDDLCSIIIDGRFR  
 EQKFRLLKRCGLGHRVYLVEEHGSVHNLSLPESTLLQAVTNTQVIDGFFVKRTMDIKESAGYLALLTKGLE  
 RLYQGHTLRSRPWGAPGAAESEAKPSTNPLCSLLTFSDFNAAEVKNKAQSVREVFARQLMQVRGLSGEKA  
 AAVVDRYSTPASLLAAYDACATAKEQEMLLSTIKCGRQLQRNLGPALSRTLYQLYCSHSPLS

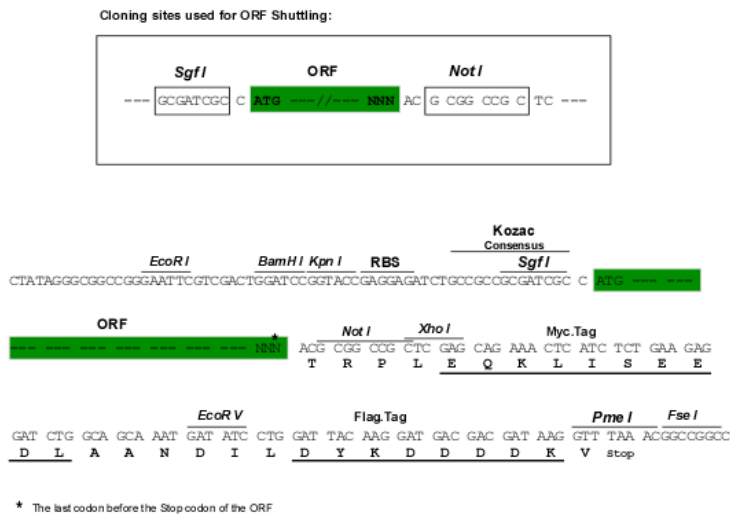
**TRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9044\\_e12.zip](https://cdn.origene.com/chromatograms/mm9044_e12.zip)

**Restriction Sites:**

Sgfl-NotI

**Cloning Scheme:**


**ACCN:** NM\_027877

**ORF Size:** 1653 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_027877.4](#)

**RefSeq Size:** 2004 bp

**RefSeq ORF:** 1656 bp

**Locus ID:** 71711

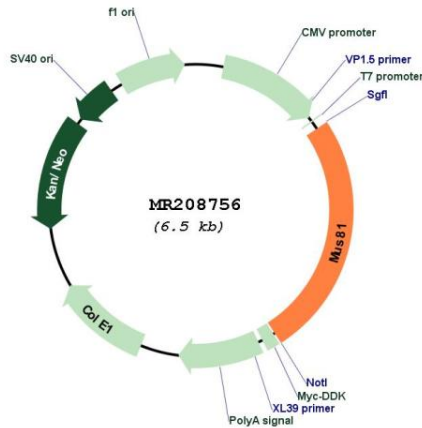
**UniProt ID:** [Q91ZIQ](#)

**Cytogenetics:** 19 A

**MW:** 62 kDa

**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.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208756