

Product datasheet for **SC205339**

MUS81 (NM_025128) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones
Product Name: MUS81 (NM_025128) Human 3' UTR Clone
Vector: pMirTarget (PS100062)
Symbol: MUS81
Synonyms: SLX3
ACCN: NM_025128
Insert Size: 417 bp
Insert Sequence: >SC205339 3'UTR clone of NM_025128
The sequence shown below is from the reference sequence of NM_025128. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon **Red**=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG  
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC  
CTCTACTGCAGCTACGGCCCTTGACCTGAGCTTATGCCGTGAAACAGCCCCAGCCCCGCTGTGCC  
CCAACCCAGGCTAGCCAGCCTTTTAACAACATCTTTGGGGTACAATTAGAATCTAAGTGTTCAGCC  
ATATGTGTCATGTAGAAGATGCCTAGCCCTGGGGACCTTGTGAAATACGCAGGAACCAGGGATACCATC  
TGGTCCAGTGGTTTTTAACAAAGCTGCTTAGCACCTGGAATTCCTGGTCAGGGAGATGGAGTCAGTG  
GGGCATTGCAGCTTGAATCTATTTTATGTCACCAGTTGGTCCTCATCAAATAAAATTTCTTAGGAGT  
GCAGAGGGCTCATTGGGAAAATAAAAATAAATAAAATAAACTTCTAAAAGAAAAGATTGAAAA  
CCA  
ACGCGTAAGCGGCCGCGGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA  
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
```

Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_025128.5](#)



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Summary:

This gene encodes a structure-specific endonuclease which belongs to the XPF/MUS81 endonuclease family and plays a critical role in the resolution of recombination intermediates during DNA repair after inter-strand cross-links, replication fork collapse, and DNA double-strand breaks. The encoded protein associates with one of two closely related essential meiotic endonuclease proteins (EME1 or EME2) to form a complex that processes DNA secondary structures. It contains an N-terminal DEAH helicase domain, an excision repair cross complementation group 4 (ERCC4) endonuclease domain, and two tandem C-terminal helix-hairpin-helix domains. Mice with a homozygous knockout of the orthologous gene have significant meiotic defects including the failure to repair a subset of DNA double strand breaks. [provided by RefSeq, Jun 2017]

Locus ID:

80198

MW:

15.5