

# Recombinant Full Length Human MUS81 Protein, GST-tagged

**Cat. No.** MUS81-6574HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Human MUS81 full-length ORF ( NP_079404.2, 1 a.a. - 551 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 551 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | <p>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]</p> |
| <b>Molecular Mass</b>   | 87.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MAAPVRLGRKRPLPACPNPLFVRWLTEWRDEATRSRHRTRFVFQKALRSLRRYPPLRSGKEAKILQHFGDGLCRMLDERLQRHRTSGGDHAPDSPSGENSPAPQGRLAE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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VQDSSMPVPAQPKAGGSGSYWPARHSGARVILLVLYREHLNPNGHHFLTKEELLQR  
CAQKSPRVAPGSAPPWPALRSLLHRNLVLRTHQPARYSLTPEGLELAQKLAESEGL  
SLLNVGIGPKEPPGEETAVPGAASAELASEAGVQQQPLELRPGEYRVLLCVDIGETR  
GGGHRPELLRELQRLHVTHTVRKLHVGDVWVAQETNPRDPANPGELVLDHIVERK  
RLDDLCSSIIDGRFREQKFRLKRCGLERRVYLVEEHGSVHNLSLPESTLLQAVTNTQ  
VIDGFFVKRTADIKESAAYLALLTRGLQRLYQGHTLRSRPWGTPGNPESGAMTSPN  
PLCSLLTFSDFNAGAIKNAQSVREVFARQLMQVRGVSGEKAAALVDRYSTPASLLA  
AYDACATPKEQETLLSTIKCGRLQRNLGPALSRTLSQLYCSYGPLT

**Applications**

Enzyme-linked Immunoabsorbent Assay  
Western Blot (Recombinant protein)  
Antibody Production  
Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

**MUS81** MUS81 endonuclease homolog (*S. cerevisiae*) [ *Homo sapiens* ]

**Official Symbol**

**MUS81**

**Synonyms**

MUS81; MUS81 endonuclease homolog (*S. cerevisiae*); MUS81 endonuclease homolog (yeast); crossover junction endonuclease MUS81; FLJ44872; SLX3; SLX3 structure specific endonuclease subunit homolog (*S. cerevisiae*); SLX3 structure-specific endonuclease subunit homolog; FLJ21012;

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|                |           |
|----------------|-----------|
| Gene ID        | 80198     |
| mRNA Refseq    | NM_025128 |
| Protein Refseq | NP_079404 |
| MIM            | 606591    |
| UniProt ID     | Q96NY9    |

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