

Recombinant Human MUS81 Protein, GST-tagged

Cat. No. MUS81-5757H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MUS81 full-length ORF (NP_079404.2, 1 a.a. - 551 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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]
Molecular Mass	87.5 kDa
AA Sequence	MAAPVRLGRKRPLPACPNPLFVRWLTEWRDEATRSRHRTRFVFQKALRSLRRYPL PLRSGKEAKILQHFGDGLCRMLDERLQRHRTSGGDHAPDSPSGENSPAPQGRLAE VQDSSMPVPAQPKAGGSGSYWPARHSGARVILLVLYREHLNPNGHHFLTKEELLQR

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CAQKSPRVAPGSAPPWPALRSLLHRNLVLRTHQPARYSLTPEGLELAQKLAESEGL
 SLLNVGIGPKEPPGEETAVPGAASAELASEAGVQQQPLELRPGEYRVLLCVDIGETR
 GGGHRPELLRELQRLHVTHTVRKLHVGDFVWVAQETNPRDPANPGELVLDHIVERK
 RLDDLCSSIIDGRFREQKFRCLKRCGLERRVYLVEEHGSVHNLSLPESTLLQAVTNTQ
 VIDGFFVKRTADIKESAAYLALLTRGLQRLYQGHTLRSRPWGTPGNPESGAMTSPN
 PLCSLLTFSDFNAGAIKKAQSVREVFARQLMQVRGVSGEKAAALVDRYSTPASLLA
 AYDACATPKEQETLLSTIKCGRQLQRNLGPALSRTLSQLYCSYGPLT

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;

Gene ID

80198

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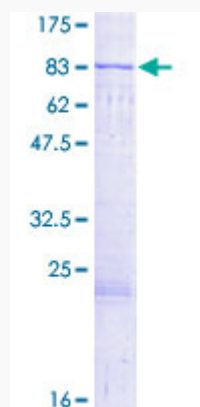
mRNA Refseq NM_025128

Protein Refseq NP_079404

MIM 606591

UniProt ID Q96NY9

Quality Control
Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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