

Recombinant Full Length Human MUS81 Protein, GST-tagged

Cat. No. MUS81-6574HF **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	In Vitro Cell Free System
ProteinLength	551 amino acids
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

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VQDSSMPVPAQPKAGGSGSYWPARHSGARVILLVLYREHLNPNNGHHFLTKEELLQR
CAQKSPRVAPGSAPPWPALRSLLHRNLVLRTHQPARYSLTPEGLELAQKLAESEGL
SLLNVGIGPKEPPGEETA VPGAASAELASEAGVQQQPLELRPGEYRVLLCVDIGETR
GGGHRPELLRELQRLHVTHTVRKLHVGDVWVAQETNPRDPANPGELVLDHIVERK
RLDDLCSSIIDGRFREQKFRLKRCGLERRVYLVEEHGSHVHNSLPESTLLQAVTNTQ
VIDGFFVKRTADIKESAAYLALLTRGLQRLYQGHTLRSPWGTGPNPESGAMTSPN
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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