

Product datasheet for **TP303373**

MUS81 (NM_025128) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human MUS81 endonuclease homolog (S. cerevisiae) (MUS81), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203373 protein sequence Red =Cloning site Green =Tags(s)

MAAPVRLGRKRPLPACPNPLFVRWLTEWRDEATRSRHRTFVFQKALRSLRRYPLPLRSGKEAKILQHFG
DGLCRMLDERLQRHRTSGGDHAPDSPGENSPAPQGRLAEVQDSSMPVPAQPKAGGSGSYWPARHSG
ARV
ILLVLYREHLNPNNGHHFLTKEELLQRCQKSPRVAPGSAPPWPALRSLLRNLVLRTHQPARYSLTPEGL
ELAQKLAESEGLSLLNVGIGPKEPPGEETAVPGAASAELASEAGVQQPLELRPGEYRVLLCVDIGETRG
GGHRPELLRELQRLHVTHTVRKLHVGDVFWVAQETNPRDPANPGELVLDHIVERKRLDDLCSSIIDGRFR
EQKFRLLKRCGLERRVYLVEEHGSHVNLSPSTLLQAVTNTQVIDGFFVKRTADIKESAAYLALLTRGLQ
RLYQGHTLRSPWGTGPNPESGAMTSPNPLCSLLTFSDFNAGAIKNAQSVREVFARQLMQVRGVSGEK
A
AALVDRYSTPASLLAAYDACATPKEQETLLSTIKCGRLQRNLGPALSRTLSQLYCSYGPLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

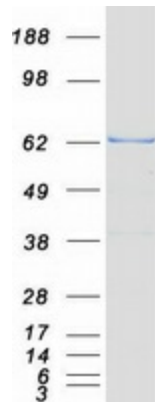
Tag:	C-Myc/DDK
Predicted MW:	61 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_079404</u>
Locus ID:	80198
UniProt ID:	<u>Q96NY9</u>
RefSeq Size:	2406
Cytogenetics:	11q13.1
RefSeq ORF:	1653
Synonyms:	SLX3
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]
Protein Pathways:	Homologous recombination

Product images:



Coomassie blue staining of purified MUS81 protein (Cat# TP303373). The protein was produced from HEK293T cells transfected with MUS81 cDNA clone (Cat# [RC203373]) using MegaTran 2.0 (Cat# [TT210002]).