

Product datasheet for PH303373

MUS81 (NM_025128) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MUS81 MS Standard C13 and N15-labeled recombinant protein (NP_079404)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203373
Predicted MW:	61.1 kDa
Protein Sequence:	>RC203373 protein sequence Red=Cloning site Green=Tags(s)

MAAPVRLGRKRPLPACPNPLFVVRWLTEWRDEATRSRHRTRFVFQKALRSLRRYPLPLRSGKEAKILQHFG
DGLCRMLDERLQRHRTSGGDHAPDSPSGENSPAPQGRLEAEVQDSSMPVPAQPKAGGSGSYWPARHSGARV
ILLVLYREHLNPNNGHFLTKEELLQRCAQKSPRVAPGSAPPWPALRSLHHRNLVLRTHQPARYSLTPEGL
ELAQKLAESEGLSLLNVGIGPKEPPGEETAVPGAASAELASEAGVQQPLELRPGEYRVLLCVDIGETRG
GGHRPELLRELQRLHVHTVVRKLHVGDVWVAQETNPRDPANPGELVLDHIVERKRLDDLCSIIIDGRFR
EQKFRLLKRCGLERRVYLVEEHGSVHNLSLPESTLLQAVTNTQVIDGFFVKRTADIKESAAYLALLTRGLQ
RLYQGHTLRSRPWGTGPNPESGAMTSPNPLCSLLTFSDFNAGAIKKAQSVREVFARQLMQVRGVSGEKA
AALVDRYSTPASLLAAYDACATPKEQETLLSTIKCGRLQRNLGPALSRTLSQLYCSYGPLT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_079404
RefSeq Size:	2406
RefSeq ORF:	1653



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Synonyms: SLX3
Locus ID: 80198
UniProt ID: [Q96NY9](#), [Q53ES5](#)
Cytogenetics: 11q13.1

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]).