

## Product datasheet for **TP307294L**

### MRCL3 (MYL12A) (NM\_006471) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human myosin, light chain 12A, regulatory, non-sarcomeric (MYL12A), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207294 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	 MSSKRTKTKTKKRPQRATSNVFMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGKNPTDEYLD AMMNEAPGPINFTMFLTMFGEKLNGLTDPEDVIRNAFACFDEEATGTIQEDYLRELLTTMGDRFTDEEVDE LYREAPIDKKGNFNIEFTRILKHGAKDKDD  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	19.6 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.
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:	<a href="#">NP_006462</a>
Locus ID:	10627
UniProt ID:	<a href="#">P19105</a>



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RefSeq Size: 1243

Cytogenetics: 18p11.31

RefSeq ORF: 513

Synonyms: HEL-S-24; MLC-2B; MLCB; MRCL3; MRLC3; MYL2B

**Summary:** This gene encodes a nonsarcomeric myosin regulatory light chain. This protein is activated by phosphorylation and regulates smooth muscle and non-muscle cell contraction. This protein may also be involved in DNA damage repair by sequestering the transcriptional regulator apoptosis-antagonizing transcription factor (AATF)/Che-1 which functions as a repressor of p53-driven apoptosis. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 8.[provided by RefSeq, Dec 2014]

**Protein Pathways:** Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Tight junction

### Product images:



Coomassie blue staining of purified MYL12A protein (Cat# [TP307294]). The protein was produced from HEK293T cells transfected with MYL12A cDNA clone (Cat# [RC207294]) using MegaTran 2.0 (Cat# [TT210002]).