

Product datasheet for TP307294L

OriGene Technologies, Inc.

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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 >RC207294 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MSSKRTKTKTKKRPQRATSNVFAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGKNPTDEYLD AMMNEAPGPINFTMFLTMFGEKLNGTDPEDVIRNAFACFDEEATGTIQEDYLRELLTTMGDRFTDEEVDE

LYREAPIDKKGNFNYIEFTRILKHGAKDKDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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: NP 006462

Locus ID: 10627 **UniProt ID:** P19105





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

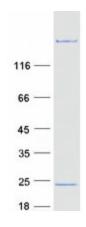
> phosphorylation and regulates smooth muscle and non-muscle cell contraction. This protein may also be involved in DNA damage repair by sequestering the transcriptional regulator apoptosis-antagonizing transcription factor (AATF)/Che-1 which functions as a repressor of p53-driven apoptosis. Alternate 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]).