

## Product datasheet for **TP301372M**

### MYL12B (NM\_033546) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human myosin, light chain 12B, regulatory (MYL12B), transcript variant 2, 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC201372 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MSSKKAKTKTTKKRPQRATSNVFMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGKNPTDAYL  
DAMMNEAPGPINFTMFLTMFGEKLNQDPEDVIRNAFACFDEEATGTIQEDYLRELLTTMGDRFTDEEVD  
ELYREAPIDKKGNFNYIEFTRILKHGAKDKDD

**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\\_291024](#)

**Locus ID:** 103910

**UniProt ID:** [Q14950](#)



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RefSeq Size: 1022

Cytogenetics: 18p11.31

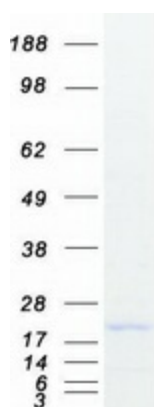
RefSeq ORF: 516

Synonyms: MLC-B; MRLC2

**Summary:** The activity of nonmuscle myosin II (see MYH9; MIM 160775) is regulated by phosphorylation of a regulatory light chain, such as MRLC2. This phosphorylation results in higher MgATPase activity and the assembly of myosin II filaments (Iwasaki et al., 2001 [PubMed 11942626]). [supplied by OMIM, Mar 2008]

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

### Product images:



Coomassie blue staining of purified MYL12B protein (Cat# [TP301372]). The protein was produced from HEK293T cells transfected with MYL12B cDNA clone (Cat# [RC201372]) using MegaTran 2.0 (Cat# [TT210002]).