

Product datasheet for TP501346

Myl2 (NM_010861) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins Description: Purified recombinant protein of Mouse myosin, light polypeptide 2, regulatory, cardiac, slow (Myl2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug Species: Mouse **Expression Host:** HEK293T **Expression cDNA Clone** >MR201346 protein sequence Red=Cloning site Green=Tags(s) or AA Sequence: MAPKKAKKRIEGGSSNVFSMFEQTQIQEFKEAFTIMDQNRDGFIDKNDLRDTFAALGRVNVKNEEIDEMI KEAPGPINFTVFLTMFGEKLKGADPEETILNAFKVFDPEGKGSLKADYVREMLTTQAGRFSKEEIDQMFA **AFPPDVTGNLDYKNLVHIITHGEEKD TRTRPLEQKLISEEDLAANDILDYKDDDDKV** Tag: C-MYC/DDK Predicted MW: 18.8 kDa **Concentration:** >0.05 µg/µL as determined by microplate BCA method > 80% as determined by SDS-PAGE and Coomassie blue staining Purity: **Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol For testing in cell culture applications, please filter before use. Note that you may experience Note: some loss of protein during the filtration process. Store at -80°C after receiving vials. Storage: Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. NP 034991 RefSeq: 17906 Locus ID: **UniProt ID:** P51667 **RefSeq Size:** 633 5 F Cytogenetics:



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	Myl2 (NM_010861) Mouse Recombinant Protein – TP501346
RefSeq ORF:	498
Synonyms:	MLC-2; MLC-2s/v; MLC-2v; Mlc2v; Mylpc
Summary:	Contractile protein that plays a role in heart development and function (PubMed:10409661). Following phosphorylation, plays a role in cross-bridge cycling kinetics and cardiac muscle contraction by increasing myosin lever arm stiffness and promoting myosin head diffusion; as a consequence of the increase in maximum contraction force and calcium sensitivity of contraction force. These events altogether slow down myosin kinetics and prolong duty cycle resulting in accumulated myosins being cooperatively recruited to actin binding sites to sustain thin filament activation as a means to fine-tune myofilament calcium sensitivity to force (By similarity) (PubMed:22426213, PubMed:16908724, PubMed:10409661). During cardiogenesis plays an early role in cardiac contractility by promoting cardiac myofibril assembly (PubMed:9422794).[UniProtKB/Swiss-Prot Function]

Product images:



Purified recombinant protein Myl2 was analyzed by SDS-PAGE gel and Coomossie Blue Staining.

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