

## Recombinant Mouse Myl2 Protein, Myc/DDK-tagged

**Cat. No.** Myl2-4250M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length myosin, light polypeptide 2, regulatory, cardiac, slow (Myl2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	Contractile protein that plays a role in heart development and function 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. During cardiogenesis plays an early role in cardiac contractility by promoting cardiac myofibril assembly.
<b>Molecular Mass</b>	18.8 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	Myl2 myosin, light polypeptide 2, regulatory, cardiac, slow [ Mus musculus (house mouse) ]
<b>Official Symbol</b>	Myl2
<b>Synonyms</b>	MYL2; myosin, light polypeptide 2, regulatory, cardiac, slow; myosin regulatory light chain 2, ventricular/cardiac muscle isoform; myosin light chain 2v; ventricular myosin regulatory light chain; myosin light chain, phosphorylatable, cardiac ventricles; MLC-2; Mlc2v; Mylpc; MLC-2v
<b>Gene ID</b>	17906
<b>mRNA Refseq</b>	NM_010861
<b>Protein Refseq</b>	NP_034991
<b>UniProt ID</b>	P51667

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