

Recombinant Human MYL2, His-tagged

Cat. No. MYL2-27837TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Myosin Light Chain 2 with N-terminal His tag; 186aa, 20.9 kDa.
Species	Human
Source	E.coli
ProteinLength	166 amino acids
Description	Thus gene encodes the regulatory light chain associated with cardiac myosin beta (or slow) heavy chain. Ca ⁺ triggers the phosphorylation of regulatory light chain that in turn triggers contraction. Mutations in this gene are associated with mid-left ventricular chamber type hypertrophic cardiomyopathy.
Conjugation	HIS
Molecular Weight	20.900kDa inclusive of tags
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.24% Tris, 20% Glycerol, 0.05% Calcium chloride
Storage	Please see Notes section

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Sequences of amino acids
 MGSSHHHHHSSGLVPRGSHMAPKKAKKRAGGANSNVFSM FEQTQIQEFKEAFTI
 MDQNRDGFIDKNDLRDTFAALGRVN VKNEEIDEMIKEAPGPINFVFLTMFGEKLG
 ADPEETIL NAFKVFDPEGKGVLKADYVREMLTTQAERFSKEEVDQMFA AFPPDVTG
 NLDYKNLVHIITHGEEKD

Sequence Similarities
 Contains 3 EF-hand domains.

GENE INFORMATION

Gene Name [MYL2 myosin, light chain 2, regulatory, cardiac, slow \[Homo sapiens \]](#)

Official Symbol [MYL2](#)

Synonyms MYL2; myosin, light chain 2, regulatory, cardiac, slow; myosin, light polypeptide 2, regulatory, cardiac, slow; myosin regulatory light chain 2, ventricular/cardiac muscle isoform; cardiac ventricular myosin light chain 2; CMH10;

Gene ID [4633](#)

mRNA Refseq [NM_000432](#)

Protein Refseq [NP_000423](#)

MIM [160781](#)

Uniprot ID [P10916](#)

Chromosome Location 12q24.11

Pathway CDC42 signaling events, organism-specific biosystem; Cardiac muscle contraction,

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organism-specific biosystem; Cardiac muscle contraction, conserved biosystem;
Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy,
conserved biosystem;

Function

actin monomer binding; calcium ion binding; myosin heavy chain binding; protein
binding; structural constituent of muscle;

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