

# Active Recombinant Human Myosin, Light Chain 2, Regulatory, Cardiac, Slow

**Cat. No.** MYL2-235H    **Lot. No.** (See product label)

## SPECIFICATION

|                                            |                                                                                                                                                                           |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>                    | Recombinant Human VMLC protein produced in <i>E. Coli</i> encodes full length amino acids.                                                                                |
| <b>Species</b>                             | Human                                                                                                                                                                     |
| <b>Source</b>                              | E.coli                                                                                                                                                                    |
| <b>Description</b>                         | VMLC is a subunit of the heterohexameric myosin protein, which modulates striated muscle contraction in response to phosphorylation by MLCK ( myosin light chain kinase). |
| <b>Formulation</b>                         | 2x50ug/33μl purified human VMLC protein at 1.52mg/ml in 10mM Tris –HCl, 1mM EDTA PH 7.5.                                                                                  |
| <b>Application and suggested dilutions</b> | •ELISA •Inhibition Assays •Western Blotting                                                                                                                               |
| <b>Activity</b>                            | Assayed for phosphorylation by MLCK.                                                                                                                                      |
| <b>Storage &amp; stability</b>             | Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.                                                           |
| <b>Full Length</b>                         | Full L.                                                                                                                                                                   |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | MYL2 myosin, light chain 2, regulatory, cardiac, slow [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>            | MYL2; myosin, light chain 2, regulatory, cardiac, slow; MLC-2; MLC-2v; CMH10; DKFZp779C0562; slow cardiac myosin regulatory light chain 2; RLC of myosin; myosin light chain 2; regulatory light chain of myosin; cardiac ventricular myosin light chain 2; myosin, light polypeptide 2, regulatory, cardiac, slow; myosin regulatory light chain 2, ventricular/cardiac muscle isoform |
| <b>Gene ID</b>             | 4633                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>         | NM_000432                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>      | NP_000423                                                                                                                                                                                                                                                                                                                                                                               |
| <b>MIM</b>                 | 160781                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID</b>          | P10916                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Chromosome Location</b> | 12q24.11                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Pathway</b>             | Focal adhesion; Hypertrophic cardiomyopathy (HCM); Leukocyte transendothelial migration; Regulation of actin cytoskeleton; Tight junction; Muscle contraction                                                                                                                                                                                                                           |
| <b>Function</b>            | actin monomer binding; calcium ion binding; motor activity; myosin heavy chain binding; protein binding; structural constituent of muscle                                                                                                                                                                                                                                               |

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