

## Recombinant Human MYL6B, His-tagged

**Cat. No.** MYL6B-30243TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human MLC1SA with an N terminal His tag; 231 amino acids with the tag; predicted MWt: 25.2 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	208 amino acids
<b>Description</b>	Myosin is a hexameric ATPase cellular motor protein. It is composed of two heavy chains, two nonphosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. This gene encodes a myosin alkali light chain expressed in both slow-twitch skeletal muscle and in nonmuscle tissue. Alternative splicing results in multiple transcript variants.
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	25.200kDa inclusive of tags
<b>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	pH: 8.00 Constituents: 10% Glycerol, 0.02% DTT, 0.32% Tris-HCl buffer

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<b>Storage</b>	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequences of amino acids</b>	MGSSHHHHHSSGLVPRGSHMGSMPPKDVVKKPAGPSISKPAAKPAAAGAPPA KTKAEPVAVPQAPQKTQEPPVDLSKVVIEFNKDQLEEFKEAFELFDRVGDGKILYSQC GDVMRALGQNPTNAEVLKVLGNPKSDELKSRRVDFETFLPMLQAVAKNRGGQTYE DYLEGFRVFDKEGNGKVMGAELRHVLTTLGEKMTEEEVETVLAGHEDSNGCINYE FLKHILSV
<b>Sequence Similarities</b>	Contains 3 EF-hand domains.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	MYL6B myosin, light chain 6B, alkali, smooth muscle and non-muscle [ Homo sapiens ]
<b>Official Symbol</b>	MYL6B
<b>Synonyms</b>	MYL6B; myosin, light chain 6B, alkali, smooth muscle and non-muscle; myosin, light polypeptide 6B, alkali, smooth muscle and non muscle; myosin light chain 6B; MLC1SA; myosin light chain 1 slow a;
<b>Gene ID</b>	140465
<b>mRNA Refseq</b>	NM_001199629
<b>Protein Refseq</b>	NP_001186558
<b>MIM</b>	609930

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<b>Uniprot ID</b>	P14649
<b>Chromosome Location</b>	12q13.2
<b>Pathway</b>	Muscle contraction, organism-specific biosystem; Smooth Muscle Contraction, organism-specific biosystem; Vascular smooth muscle contraction, organism-specific biosystem; Vascular smooth muscle contraction, conserved biosystem;
<b>Function</b>	calcium ion binding; motor activity; protein binding; structural constituent of muscle;

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