

## Recombinant Human MYL6

**Cat. No.** MYL6-30267TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human MYL6 expressed in <i>Saccharomyces cerevisiae</i> ; amino acids 1-151, 151 amino acids, MWt 16.9kDa. Protein is tagged with 26 kDa proprietary tag.
<b>Species</b>	Human
<b>ProteinLength</b>	1-151 a.a.
<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 that is expressed in smooth muscle and non-muscle tissues. Genomic sequences representing several pseudogenes have been described and two transcript variants encoding different isoforms have been identified for this gene.
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Sequences of amino</b>	MCDFTEDQTAEFKEAFQLFDRTGDGKILYSQCGDVMRALG QNPTNAEVLKVLGNP

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<b>acids</b>	KSDEMNVKVLDFEHFLPMLQTVA KNKDQGTIEDYVEGLRVFDKEGNGTVMGAEIR HVLVTL GEKMTEEEVEMLVAGHEDSNGCINYEAFVRHILSG
<b>Sequence Similarities</b>	Contains 3 EF-hand domains.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	MYL6 myosin, light chain 6, alkali, smooth muscle and non-muscle [ Homo sapiens ]
<b>Official Symbol</b>	MYL6
<b>Synonyms</b>	MYL6; myosin, light chain 6, alkali, smooth muscle and non-muscle; myosin, light polypeptide 6, alkali, smooth muscle and non muscle; myosin light polypeptide 6; ESMLC; MLC1SM; MLC3NM;
<b>Gene ID</b>	4637
<b>mRNA Refseq</b>	NM_021019
<b>Protein Refseq</b>	NP_066299
<b>MIM</b>	609931
<b>Uniprot ID</b>	P60660
<b>Chromosome Location</b>	12q13.13
<b>Pathway</b>	Axon guidance, organism-specific biosystem; Developmental Biology, organism-

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specific biosystem; Focal Adhesion, organism-specific biosystem; Muscle contraction, organism-specific biosystem; Sema4D in semaphorin signaling, organism-specific biosystem;

**Function**

actin-dependent ATPase activity; calcium ion binding; motor activity; protein binding; structural constituent of muscle;

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