

Recombinant Human MYL6

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

SPECIFICATION

Product Overview	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.
Species	Human
ProteinLength	1-151 a.a.
Description	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.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino	MCDFTEDQTAEFKEAFQLFDRTGDGKILYSQCGDVMRALG QNPTNAEVLKVLGNP

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

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acids	KSDEMNVKVLDFEHFLPMLQTVA KNKDQGTIEDYVEGLRVFDKEGNGTVMGAEIR HVLVTL GEKMTEEEVEMLVAGHEDSNGCINYEAFVRHILSG
Sequence Similarities	Contains 3 EF-hand domains.
Full Length	Full L.
GENE INFORMATION	
Gene Name	MYL6 myosin, light chain 6, alkali, smooth muscle and non-muscle [Homo sapiens]
Official Symbol	MYL6
Synonyms	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;
Gene ID	4637
mRNA Refseq	NM_021019
Protein Refseq	NP_066299
MIM	609931
Uniprot ID	P60660
Chromosome Location	12q13.13
Pathway	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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