

Recombinant Human MYL4

Cat. No. MYL4-29362TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human MYL4 with an N terminal proprietary tag; Predicted MWt 47.41 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	197 amino acids
Description	Myosin is a hexameric ATPase cellular motor protein. It is composed of two myosin heavy chains, two nonphosphorylatable myosin alkali light chains, and two phosphorylatable myosin regulatory light chains. This gene encodes a myosin alkali light chain that is found in embryonic muscle and adult atria. Two alternatively spliced transcript variants encoding the same protein have been found for this gene.
Molecular Weight	47.410kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids	MAPKKPEPKKEAAKPAPAPAPAPAPAPAPEAPKEPAFD PKSVKIDFTADQIEEFK EAFSLFDRTPTGEMKITYGQCGD VLRALGQNPTNAEVLRLVLGKPKPEEMNVKMLDF ETFLPIL QHISRNKEQGTIEDFVEGLRVFDKESNGTVMGAELRHVLA TLGEKMTEA EVEQLLAGQEDANGCINYEAFVKHIMSG
Sequence Similarities	Contains 3 EF-hand domains.
GENE INFORMATION	
Gene Name	MYL4 myosin, light chain 4, alkali; atrial, embryonic [Homo sapiens]
Official Symbol	MYL4
Synonyms	MYL4; myosin, light chain 4, alkali; atrial, embryonic; myosin, light polypeptide 4, alkali; atrial, embryonic; myosin light chain 4; ALC1; AMLC; GT1; myosin; atrial/fetal muscle; light chain; PRO1957;
Gene ID	4635
mRNA Refseq	NM_001002841
Protein Refseq	NP_001002841
MIM	160770
Uniprot ID	P12829
Chromosome Location	17q21-qter
Pathway	Muscle contraction, organism-specific biosystem; Myometrial Relaxation and

Contraction Pathways, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem;

Function

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

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