Recombinant Human MYH3

Cat. No. MYH3-29215TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 2-100 of Human heavy chain Myosin with an N terminal proprietary tag; Predicted MWt 36.52 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	99 amino acids
Description	Myosin is a major contractile protein which converts chemical energy into mechanical energy through the hydrolysis of ATP. Myosin is a hexameric protein composed of a pair of myosin heavy chains (MYH) and two pairs of nonidentical light chains. This gene is a member of the MYH family and encodes a protein with an IQ domain and a myosin head-like domain. Mutations in this gene have been associated with two congenital contracture (arthrogryposis) syndromes, Freeman-Sheldon syndrome and Sheldon-Hall syndrome.
Molecular Weight	36.520kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	SSDTEMEVFGIAAPFLRKSEKERIEAQNQPFDAKTYCFVVDSKEEYAKGKIKSSQDG KVTVETEDNRTLVVKPEDVYAMNPPKFDRIEDMAMLTHLNEP
Sequence Similarities	Contains 1 IQ domain.Contains 1 myosin head-like domain.

GENE INFORMATION

Gene Name	MYH3 myosin, heavy chain 3, skeletal muscle, embryonic [Homo sapiens]
Official Symbol	MYH3
Synonyms	MYH3; myosin, heavy chain 3, skeletal muscle, embryonic; myosin, heavy polypeptide 3, skeletal muscle, embryonic; myosin-3; HEMHC; muscle embryonic myosin heavy chain 3; MYHC EMB; MYHSE1; myosin; skeletal; heavy chain; embryonic 1; SMHCE;
Gene ID	4621
mRNA Refseq	NM_002470
Protein Refseq	NP_002461
MIM	160720
Uniprot ID	P11055
Chromosome Location	17pter-p11

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Pathway	Muscle contraction, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem; Tight junction, organism-specific biosystem; Tight junction, conserved biosystem;
Function	ATP binding; actin binding; calmodulin binding; microfilament motor activity; nucleotide binding;

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