

Recombinant Full Length Human MYH3 Protein, C-Flag-tagged

Cat. No. MYH3-905HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MYH3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	223.7 kDa
AA Sequence	MSSDTEMEVFGIAAPFLRKSEKERIEAQNPFDKTYCFVVDSSKEEYAKGKIKSSQD GKVTVETEDNRTL VVKPEDVYAMNPPKFDRIEDMAMLTHLNEPAVLNLIKDRYTSW MIYTYSGLFVCVTNPNYKWLPVYNPEVV EGYRGKKRQEAPPHIFSISDNAYQFMLTD RENQSILITGESGAGKTVNTRKVIQYFATIAATGDLAKKKD SKMKGTLTDQIISANPLL EAFGNAKTVRNDNSSRFGKFIRIHFGTTGKLASADIETYLLEKSRVTFQLKA ERSYHI FYQILSNKKPELIELLLITNPYDYPFISQGEILVASIDDAEELLATDSADILGFTPEEKS

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GL YKLTGAVMHYGNMKFKQKQREEQAEPDGTAVADKTAYLMGLNSSDLLKALCFP
RVKVGNEYVTKGQTVDDQ VHHAVNALSKSVYEKFLFLWMVTRINQQLDTKLPRQHFIG
VLDIAGFEIFEYNSLEQLCINFTNEKLQQFF NHHMFVLEQEEYKKEGIEWTFIDFGMD
LAACIELIEKPMGIFSILEEECMFPKATDTSFKNKLYDQHLGK SNNFQKPKVVKGRAE
AHFSLIHYAGTVDYSVSGWLEKNKDPLNETVVGLYQKSSNRLLAHLATFATADA D
SGKKKVAKKKGSSSFQTVSALFRENLNKLSNLRTHPHFVRCIIPNETKTPGAMEHS
LVLHQLRCNGVL EGIRICRKGFPNRILYGDFKQRYRVLNASAIPEGQFIDSKKACEKL
LASIDIDHTQYKFGHTKVFFKAGL LGTLEEMRDDRLLAKLITRTQAVCRGFLMRVEFQ
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EAKIKEVTERAEDEEEEINAELTAKKRKLEDECSELKKDIDDLELTAKVEKEKHATENK
VKNLT EELSGLDETIAKLTREKKALQEAHQALDDLQAEEDKVNSLNKTKSKLEQQV
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RTKYETDAIQRTTEELEEAKKKLAQRLQD SEEQVEAVNAKCASLEKTKQRLQGEVED
LMVDVERANSLAAALDKKQRNFDKVLAEWTKCEESQAELEA SLKESRSLSTELFK
LKNAYEEALDQLETVKRENKNLEQEIADLTEQIAENGKTIHELEKSRKQIELEKAD IQL
ALEEAEAALEHEEAKILRIQLELTQVKSEIDRKIAEKDEEIEQLKRNRYQRTVETMQSAL
DAEVRSRN EAIRLKKKMEGDLNEIEIQLSHANRQAAETLKHLSVQGQLKDTQLHLD
DALRGQEDLKEQLAIVERRAN LLQAEVEELRATLEQTERARKLAEQELLSNERVQL
LHTQNTSLIHTKKKLETDLMQLQSEVEDASRDAR NAEKAKKAITDAAMMAEELKKE
QDTSAPHLERMKNLEQTVKDLQHRLEDAEQALKGKKQIQKLETRI RELEFELEGE
QKKNTESVKGLRKYERRVKELTYQSEEDRKNVLRQLQDLVDKLQVKVKSYSKRQAEAA
DEQA
NAHLTKFRKAQHELEEEAEERADIAESQVNKLRAKTRDFTSSRMVVHESEETRTRPLE
QKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Tight junction, Viral myocarditis
Full Length	Full L.

GENE INFORMATION

Gene Name	MYH3 myosin heavy chain 3 [Homo sapiens (human)]
Official Symbol	MYH3
Synonyms	DA8; DA2A; DA2B; DA2B3; HEMHC; SMHCE; MYHSE1; CPSFS1A; CPSFS1B; CPSKF1A; CPSKF1B; MYHC-EMB
Gene ID	4621
mRNA Refseq	NM_002470.4
Protein Refseq	NP_002461.2

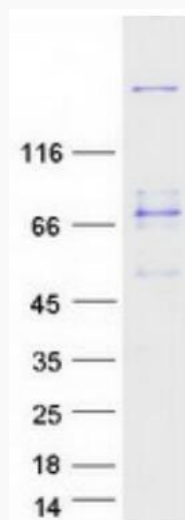
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MIM 160720

UniProt ID P11055



Coomassie blue staining of purified MYH3 protein.

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