

Recombinant Full Length Human MYH6 Protein, C-Flag-tagged

Cat. No. MYH6-451HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MYH6 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Cardiac muscle myosin is a hexamer consisting of two heavy chain subunits, two light chain subunits, and two regulatory subunits. This gene encodes the alpha heavy chain subunit of cardiac myosin. The gene is located approximately 4kb downstream of the gene encoding the beta heavy chain subunit of cardiac myosin. Mutations in this gene cause familial hypertrophic cardiomyopathy and atrial septal defect 3.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	223.6 kDa
AA Sequence	MTDAQMADFGAAAQYLKSEKERLEAQTRPFDIRTECFVPDDKEEFVKAKILSREG GKVIAETENGKTVT VKEDQVLQQNPPKFDKIEDMAMLTFLHEPAVLFNLKERYAAW MIYTYSGLFVCVTNPNYKWLPVYNAEVVA AYRGKKRSEAPPHIFSISDNAYQYMLTDR ENQSILITGESGAGKTVNTRKVIQYFASIAAIGDRGKKDNA NANKGTLEDQIIQANPAL EAFGNAKTVRNDNSSRFGKFIRIHFGATGKLASADIETYLLEKSRVIFQLKA ERNYHIF YQILSNKKPELLDMLLVTNPNPYDYAFVSQGEVSVASIDDSEELMATDSAFDVLGFTS EEKAGV YKLTGAIMHYGNMKFKQKQREEQAEPDGTEDADKSAYLMGLNSADLLKG LCHPRVKVGNEYVTKGQSVQQ VYYSIGALAKAVYEKMFNWMVTRINATLETQKPR

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QYFIGVLDIAGFEIFDFNSFEQLCINFTNEKLQQFF NHHMFVLEQEEYKKEGIEWTFI
 DFGMDLQACIDLIEKPMGIMSILEEECMFPKATDMTFKAKLYDNHLGK SNNFQKPRN
 IKGKQEAHFSLIHYAGTVDYNILGWLEKNKDPLNETVVALYQKSSLKLMATLFSSYAT
 ADT GDSGKSKGGKKKGSSFQTVSALHRENLNKLMTNLRTTHPHFVRCIIPNERKAP
 GVMDNPLVMHQLRCNGV LEGIRICRKGFPNRILYGDFRQRYRILNPVAIPEGQFIDS
 RKGTEKLLSSLDIDHNQYKFGHTKVFFKAG LLGLLEEMRDERLSRIITRMQAQARGQ
 LMRIEFKKIVERRDALLVIQWNIRAFMGVKNWPWMKLYFKIKP LLKSAETEKEMATM
 KEEFGRIKETLEKSEARRKELEEKMVSLLEQEKNDLQLQVQAEQDNLNDAEERCDQL
 IKNKIQLEAKVKEMNERLEDEEEMNAELTAKKRKLEDECSELKKDIDDLTLAKVEK
 EKHATENKVKNL TEEMAGLDEIIAKLTKEKKALQEAHQALDDLQVEEDKVNSLSKS
 KVKLEQQVDDLEGSLEQEKKVRMDL ERAKRKLEGDLKLTQESIMDLENDKLQLEEK
 LKKKEFDINQQNSKIEDEQVLALQLQKKLKENQARIEEL EEELEAERTARAKVEKLRS
 DLSRELEEISERLEEAGGATSVQIEMNKKREAEFQKMRRDLEEATLQHEAT AAALR
 KKHADSVaelGEQIDNLQRVKQKLEKEKSEFKLELDDVTSNMEQIIKAKANLEKVSRT
 LEDQANE YRVKLEEAQRSLNDFTTQRAKLQTENGELARQLEEKEALISQLTRGKLS
 YTQQMEDLKRQLEEEGKAKNA LAHALQSARHDCDLLREQYEEETEAKAELQRVLS
 KANSEVAQWRTKYETDAIQRTTEELEEAKKKLAQRLQ DAEAEVAVNAKCSSLEKTK
 HRLQNEIEDLMVDVERSNAAAAAALDKKQRNFDKILAEWKQKYEESQSELE SSQKEA
 RSLSTELFKLKNAYEESLEHLETFKRENKNLQEEISDLTEQLGEGGKNVHELEKVRK
 QLEVEKL ELQSALEEAASLEHEEGKILRAQLEFNQIKAEIERKLAEKDEEMEQAQR
 NHQRVVDSLQTSLDAETR SR NEVLRVKKKMEGDLNEMEIQLSHANRMAAEAQKQV
 KSLQSLKDTQIQLDDAVRANDDLKENIAIVERRN NLLQAELEELRAVVEQTERSRL
 AEQELIETSERVQLLHSQNTSLINQKKKMESDLTQLQSEVEEAVQEC RNAEEKAKK
 AITDAAMMAEELKKEQDTSALHERMKKNMEQTIKDLQHRLDEAEQIALKGGKKQLQ
 KLEAR VRELEGELEAEQKRNAESVKGMRKSERRIKELTYQTEEDKKNLLRLQLDLDV
 KLQLKV KAYKRQAEEAEEQ
 ANTNL SKFRKVQHELDEAEERADIAESQVNKLRAKSRDIGAKQKMHDEETRTRPLE
 QKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining.

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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	Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), Tight junction, Viral myocarditis
Full Length	Full L.

GENE INFORMATION

Gene Name	MYH6 myosin heavy chain 6 [Homo sapiens (human)]
Official Symbol	MYH6
Synonyms	ASD3; MYHC; SSS3; CMH14; MYHCA; CMD1EE; alpha-MHC
Gene ID	4624
mRNA Refseq	NM_002471.4
Protein Refseq	NP_002462.2
MIM	160710

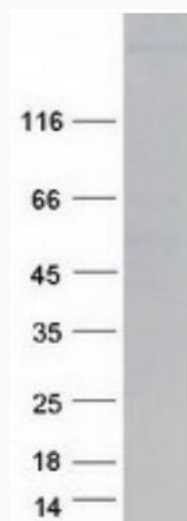
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UniProt ID

P13533



Coomassie blue staining of purified MYH6 protein.

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