

Recombinant Human MYH6 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MYH6-1799H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MYH6 MS Standard C13 and N15-labeled recombinant protein (NP_002462) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	224.2 kDa
AA Sequence	MTDAQMADFGAAAQYLRKSEKERLEAQTRPFDIRTECFVPDDKEEFVKAKILSREG GKVIAETENGKTVTVKEDQVLQQNPPKFDKIEDMAMLTFLHEPAVLFLNKERYAAW MIYTYSGLFVCVTNPNYKWLPVYNAEVVAAAYRGKKRSEAPPHIFSISDNAYQYMLTDR ENQSILITGESGAGKTVNTKRVIQYFASIAAIGDRGKKDNANANKGTLEDQIIQANPAL EAFGNAKTVRNDNSSRFGKFIRIHFGATGKLASADIETYLLEKSRVIFQLKAERNYHIF YQILSNKKPELLDMLLVTTNNPYDYAFVSQGEVSVASIDDSEELMATDSAFDVLGFTS EEKAGVYKLTGAIMHYGNMKFKQKQREEQAEPDGTEDADKSAYLMGLNSADLLKG LCHPRVKVGNEYVTKGQSVQQVYYSIGALAKAVYEKMFNWMVTRINATLETQPRQ

 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

YFIGVLDIAGFEIFDFNSFEQLCINFTNEKLQQFFNHHMFVLEQEEYKKEGIEWTFIDF
GMDLQACIDLIEKPMGIMSILEEECMFPKATDMTFKAKLYDNHLGKSNNFQKPRNIK
GKQEAHFSLIHYAGTVDYNILGWLEKNKDPLNETVVALYQKSSLKLMATLFSSYATA
DTGDSGKSKGGKKKGSSSFQTVSALHRENLNKLMTNLRTTHPHFVRCIIPNERKAPG
VMDNPLVMHQLRCNGVLEGIRICRKGFPNRILYGDFRQRYRILNPVAIPEGQFIDSRK
GTEKLLSSLDIDHNQYKFGHTKVFFKAGLLGLLEEMRDERLSRIITRMQAQARGQLM
RIEFKKIVERRDALLVIQWNIRAFMGVKNWPWMKLYFKIKPLLKSAETEKEMATMKEE
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IQLEAKVKEMNERLEDEEEMNAELTAKKRKLEDECSELKKDIDDLTLAKVEKEKHA
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QWRTKYETDAIQRTREELEEAKKKLAQRLQDAEEAVEAVNAKCSSLEKTKHRLQNEIE
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KLKNAYEESLEHLETFKRENKNLQEEISDLTEQLGEGGKNVHELEKVRKQLEVEKLE
LQSALEAAEASLEHEEGKILRAQLEFNQIKAEIERKLAEKDEEMEQAKRNHQRVVDS
LQTSLDAETR SRNEVLRVKKKMEGDLNEMEIQLSHANRMAAEAQKQVKSLSQSLKLD
TQIQLDDAVRANDDLKENIAIVERRNNLLQAELEELRAVVEQTERSRLAEQELIETS
ERVQLLHSQNTSLINQKKKMESDLTQLQSEVEEAVQECRNAEEKAKKAITDAAMMA
EELKKEQD TSAHLERMKKNMEQTIKDLQHRLDEAEQIALKGGKKQLQKLEARVRELE
GELEAEQKRNAESVKGMRKSERRIKELTYQTEEDKKNLLRLQDLVDKLQLKVKAYK
RQAEAAEQANTNLSKFRKVQHELDEAEERADIAESQVNKLRAKSRDIGAKQKMHD
EETRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

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

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Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

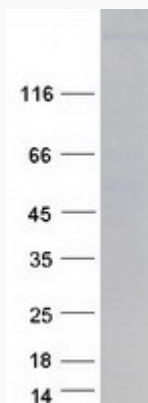
GENE INFORMATION

Gene Name	MYH6 myosin heavy chain 6 [Homo sapiens (human)]
Official Symbol	MYH6
Synonyms	MYH6; myosin heavy chain 6; ASD3; MYHC; SSS3; CMH14; MYHCA; CMD1EE; alpha-MHC; myosin-6; myHC-alpha; myosin, heavy polypeptide 6, cardiac muscle, alpha (cardiomyopathy, hypertrophic 1)
Gene ID	4624
mRNA Refseq	NM_002471
Protein Refseq	NP_002462
MIM	160710
UniProt ID	P13533

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SDS-PAGE

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