

Recombinant Human MYO6 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MYO6-4814H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MYO6 MS Standard C13 and N15-labeled recombinant protein (NP_004990) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a reverse-direction motor protein that moves toward the minus end of actin filaments and plays a role in intracellular vesicle and organelle transport. The protein consists of a motor domain containing an ATP- and an actin-binding site and a globular tail which interacts with other proteins. This protein maintains the structural integrity of inner ear hair cells and mutations in this gene cause non-syndromic autosomal dominant and recessive hearing loss. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Molecular Mass	149.2 kDa
AA Sequence	MEDGKPVWAPHTDGFQMGNIVDIGPDSLTIPLNQKGKTFLLALINQVFPAEEDSKK DVEDNCSLMYLNATLLHNIKVRYSKDRIYTYVANILIAVNPYFDIPKIYSSEAIKSYQG KSLGTRPPHVFAIADKAFRDMKVLKMSQSIIVSGESGAGKTENTKFVLRYLTESYGT GQDIDDRIVEANPLLEAFGNAKTVRNNNSSRFGKFVEIHFNEKSSVVGGFVSHYLLE KSRICVQGKEERNYHIFYRLCAGASEDIREKLHLSSPDNFRYLNRGCTRYFANKETD KQILQNRKSPEYLKAGSMKDPLLDDHGDFIRMCTAMKKIGLDDEEKLDLFRVVAGVL

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HLGNIDFEEAGSTSGGCNLKNKSAQSLEYCAELLGLDQDDLRLVSLTTRVMLTTAGG
 TKGTVIKVPLKVEQANNARDALAKTVYSHLFDHVVRNVNQCFFETSSYFIGVLDIAG
 FEYFEHNSFEQFCINYCNEKLQQFFNERILKEEQELYQKEGLGVNEVHYVDNQDCID
 LIEAKLVGILDILDEENRLPQPSDQHFTSAVHQKHKDHFRLTIPRKSCLAVHRNIRDDE
 GFIRHFAGAVCYETTQFVEKNNDALHMSLES LICESRDKFIRELFESSTNNNKDTKQ
 KAGKLSFISVGNKFKTQLNLLLDKLRSTGASFIRCIKPNLKMTSHHFEGAQILSQLQCS
 GMVSVLDLMQGGYPSRAS FHELYNMYKKYMPDKLARLDPRLFCKALFKALGLNEN
 DYKFGLTKVFFRPGKFAEFDQIMKSDPDHLAELVKRVNHWLTCSRWKKVQWCSLS
 VIKLKNKIKYRAEACIKMQKTIRMWLCKRRHKPRIDGLVKVGTLKKRLDKFNEVSVL
 KDGKPEMNKQIKNLEISIDTLMAKIKSTMMTQEIQKEYDALVKSSEELLSALQKKKQ
 QEEEEAERLRRIQEEMEKEKRKRREEDEKRRRKEEEEERRMKLEMEAKRKQEEEEERKK
 REDDEKRIQAEVEAQLARQKEEESQQQAVLEQERRDRELALRIAQSEAELISDEAQA
 DLALRRNDGTRPKMTPEQMAKEMSEFLSRGPAVLATKAAAGTKKYDLSKWKYAEL
 RDTINTSCDIELLAACREEFHRRLLKVYHAWKSKNKKRNTETEQRAPKSVTDYDFAPF
 LNNSPQQNPAAQIPARQREIEMNRQQRFFRIPFIRPADQYKDPQSKKKGWYAHFD
 GPWIARQMELHPDKPPILLVAGKDDMEMCELNLEETGLTRKRGAEILPRQFEEIWER
 CGGIQYLQNAIESRQARPTYATAMLQSLLKTRTRPLEQKLISEEDLAANDILDYKDDD
 DKV

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

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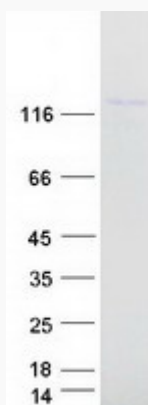
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GENE INFORMATION

Gene Name	MYO6 myosin VI [Homo sapiens (human)]
Official Symbol	MYO6
Synonyms	MYO6; myosin VI; deafness, autosomal recessive 37, DFNA22, DFNB37; unconventional myosin-VI; KIAA0389; myosin-VI; unconventional myosin-6; DFNA22; DFNB37;
Gene ID	4646
mRNA Refseq	NM_004999
Protein Refseq	NP_004990
MIM	600970
UniProt ID	Q9UM54

SDS-PAGE



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