

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

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | MYO6 MS Standard C13 and N15-labeled recombinant protein (NP_004990) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 149.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | MEDGKPVWAPHTDGFQMGNIVDIGPDSLTIPLNQKGKTFLLALINQVFPAEEDSKK<br>DVEDNCSLMYLNATLLHNIKVRYSKDRIYTYVANILIAVNPYFDIPKIYSSEAIKSYQG<br>KSLGTRPPHVFAIADKAFRDMKVLKMSQSIIVSGESGAGKTENTKFVLRYLTESYGT<br>GQDIDDRIVEANPLLEAFGNAKTVRNNNSSRFGKFVEIHFNEKSSVVGGFVSHYLLE<br>KSRICVQGKEERNYHIFYRLCAGASEDIREKLHLSSPDNFRYLNRGCTRYFANKETD<br>KQILQNRKSPEYLKAGSMKDPLLDDHGDFIRMCTAMKKIGLDDEEKLDLFRVVAGVL                                                                                                                                                                                                           |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

HLGNIDFEEAGSTSGGCNLKNKSAQSLEYCAELLGLDQDDLRLVSLTTRVMLTTAGG  
 TKGTVIKVPLKVEQANNARDALAKTVYSHLFDHVVRVNRVNCFPFETSSYFIGVLDIAG  
 FEYFEHNSFEQFCINYCNEKLQQFFNERILKEEQELYQKEGLGVNEVHYVDNQDCID  
 LIEAKLVGILDILDEENRLPQPSDQHFTSAVHQKHKDHFRLTIPRKSCLAVHRNIRDDE  
 GFIRHFAGAVCYETTQFVEKNNDALHMSLES LICESRDKFIRELFESSTNNNKDTKQ  
 KAGKLSFISVGNKFKTQLNLLLDKLRSTGASFIRCIKPNLKMTSHHFEGAQILSQLQCS  
 GMVSVLDLMQGGYPSRAS FHELYNMYKKYMPDKLARLDPRLFCKALFKALGLNEN  
 DYKFGLTKVFFRPGKFAEFDQIMKSDPDHLAELVKRVNHWLTCSRWKKVQWCSLS  
 VIKLKNKIKYRAEACIKMQKTIRMWLCKRRHKPRIDGLVKVGTLKKRLDKFNEVVSVL  
 KDGPPEMNKQIKNLEISIDTLMAKIKSTMMTQEIQKEYDALVKSSEELLSALQKKKQ  
 QEEEEAERLRRIQEEMEKEKRRREEDEKRRRKEEEEERRMKLEMEAKRKQEEEEERKK  
 REDDEKRIQAEVEAQLARQKEEESQQQAVLEQERRDRELALRIAQSEAELISDEAQA  
 DLALRRNDGTRPKMTPEQMAKEMSEFLSRGPAVLATKAAAGTKKYDLSKWKYAEL  
 RDTINTSCDIELLAACREEFHRRLLKVYHAWKSKNKKRNTETEQRAPKSVTDYDFAPF  
 LNNSPQQNPAAQIPARQREIEMNRQQRFFRIPFIRPADQYKDPQSKKKGWYAHFD  
 GPWIARQMEHPDKPPILLVAGKDDMEMCELNLEETGLTRKRGAEILPRQFEEIWER  
 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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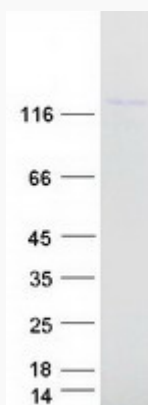
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## GENE INFORMATION

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

### SDS-PAGE



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