

# Recombinant Full Length Human UNC45B Protein, C-Flag-tagged

**Cat. No.** UNC45B-1933HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human UNC45B Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | This gene encodes a co-chaperone required for folding and accumulation of type II myosins. The protein consists of three tetratricopeptide repeat motifs at the N-terminus that form a complex with heat shock protein 90, a central region of unknown function that is conserved in all Unc-45 proteins, and a C-terminal Unc-45/Cro1/She4 domain. The protein is expressed at high levels in striated muscle, where its muscle myosin chaperone activity is dependent on heat shock protein 90 acting as a co-chaperone. A missense mutation in this gene has been associated with cataract development. Alternative splicing results in multiple transcript variants. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | 103.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MAEVEAVQLKEEGNRHFQLQDYKAATNSYSQALKLTKDKALLATLYRNRAACGLKT<br>ESYIQAASDASRAI DINSSDIKALYRRCQALEHLGKLDQAFKDVQRCATLEPRNQNF<br>QEMLRRLNTSIQEKLRVQFSTDSRVQK MFEILLDENSEADKREKAANNLIVLGREEA<br>GAEKIFQNNGVALLLQLLDTKKPELVLAAVRTLSGMCSGH QARATVILHAVRIDRICS                                                                                                                                                                                                                                                                                                                                                                                                                      |

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LMAVENEEMSLAVCNLLQAIIDSLSGEDKREHRGKEEALVLDTKKDLKQITS HLLDM  
 LVSKKVSGQGRDQALNLLNKNVPRKDLAIHDNSRTIYVVDNGLRKILKVVGGQVPDLP  
 SCLPLTDN TRMLASILINKLYDDLRCDDPERDHFRKICEEYITGKFDPQMDKNLNAIQ  
 TVSGILQGPFDLGNQLLGLK GVMEMMVALCGSERETDQLVAVEALIHASTKLSRAT  
 FIITNGVSLLKQIYKTTKNEKIKIRTLVGLCKLG SAGGTDYGLRQFAEGSTEKLAKQCR  
 KWLCNMSIDTRRRWAVEGLAYLTLDADVKKDDFVQDVPALQAMFE LAKXXTSDKTI  
 LYSVATTLVNCTNSYDVKEVIPELVQLAKFSKQHVPEEHPKDKKDFIDMRVKRLLKA  
 GV ISALACMVKADSAILTDQTKELLARVFLALCDNPKDRGTIVAQGGGKALIPALEG  
 TDVGKVKAHALAK IAAVSNPDIAFPGERVYEVVRPLVRLLDTQRDGLQNYEALLGL  
 TNLSGRSDKLRQKIFKERALPDNIENYM FENHDQLRQAATECMCNMVLHKEVQERFL  
 ADGNDRLKLVLLCGEDDDKVQNAAAGALAMLTAAHKKLCL KMTQVTTQWLEILQR  
 LCLHDQLSVQHRGLVIAYNLLAADAELAKKLVESELLEILTVVGKQEPDEKKAEV VQT  
 ARECLIKCMDYGFIPVS TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

## GENE INFORMATION

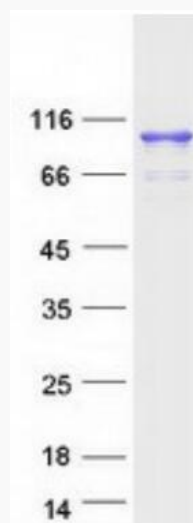
**Gene Name** **UNC45B** *unc-45 myosin chaperone B [ Homo sapiens (human) ]*

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|                        |                                                |
|------------------------|------------------------------------------------|
| <b>Official Symbol</b> | UNC45B                                         |
| <b>Synonyms</b>        | CMYA4; MFM11; UNC45; CTRCT43; SMUNC45; UNC-45B |
| <b>Gene ID</b>         | 146862                                         |
| <b>mRNA Refseq</b>     | NM_173167.3                                    |
| <b>Protein Refseq</b>  | NP_775259.1                                    |
| <b>MIM</b>             | 611220                                         |
| <b>UniProt ID</b>      | Q8IWX7                                         |



Coomassie blue staining of purified UNC45B protein.

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