

# Recombinant Human KLC3 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** KLC3-3281H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | KLC3 MS Standard C13 and N15-labeled recombinant protein (NP_803136) 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 member of the kinesin light chain gene family. Kinesins are molecular motors involved in the transport of cargo along microtubules, and are composed of two kinesin heavy chain (KHC) and two kinesin light chain (KLC) molecules. KLCs are thought to typically be involved in binding cargo and regulating kinesin activity. In the rat, a protein similar to this gene product is expressed in post-meiotic spermatids, where it associates with structural components of sperm tails and mitochondria. |
| <b>Molecular Mass</b>   | 55.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MSVQVAAPGSAGLGPERLSPEELVRQTRQVVQGLEALRAEHHGLAGHLAEALAGQ<br>GPAAGLEMLEEKQQVVSLSLEAIELGLGEAQVLLALSAHVGALEAEKQRLRSQARR<br>LAQENVWLREELEETQRRRLRASEESVAQLEEEKRHLFLGQLRQYDPPAESQQSES<br>PPRRDSLASLFPSEEEERKGPEAAGAAAAQQGGYEIPARLRTLHNLVIQYAGQGGRY<br>EVAVPLCRQALEDLERSSSGHCHPDVATMLNIALVYRDQNKYKEATDLLHDALQIRE<br>QTLGPEHPAVAATLNNLAVLYGKRGYREAELCQRALEIREKVLGADHPDVAKQL                                                                                                                                                            |

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NNLALLCQNQGKFEDVERHYARALSIYEALGGPHDPNVAKTKNNLASAYLKQNKYQ  
QAEELYKEILHKEDLPAPLGAPNTGTAGDAEQALRRSSSLSKIRESIRRGSEKLVSRL  
RGEAAAGAAGMKRAMSLNTLNVDAPRAPGTQFPSWHLDKAPRTLSASTQDLSPT  
RTRPLEQKLISEEDLAANDILDYKDDDDKV

**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.

## GENE INFORMATION

**Gene Name** KLC3 kinesin light chain 3 [ Homo sapiens (human) ]

**Official Symbol** KLC3

**Synonyms** KLC3; kinesin light chain 3; KLC2L; KLCT; KNS2B; kinesin light chain 2; KLC2;

**Gene ID** 147700

**mRNA Refseq** NM\_177417

**Protein Refseq** NP\_803136

**MIM** 601334

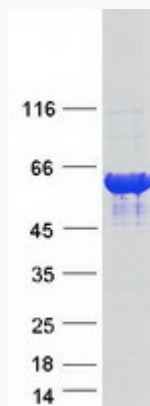
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**UniProt ID**

Q6P597

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