

# Recombinant Full Length Human CNN2 Protein, C-Flag-tagged

**Cat. No.** CNN2-912HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human CNN2 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>      | The protein encoded by this gene, which can bind actin, calmodulin, troponin C, and tropomyosin, may function in the structural organization of actin filaments. The encoded protein could play a role in smooth muscle contraction and cell adhesion. Several pseudogenes of this gene have been identified, and are present on chromosomes 1, 2, 3, 6, 9, 11, 13, 15, 16, 21 and 22. Alternative splicing results in multiple transcript variants encoding different isoforms. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 33.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MSSTQFNKGPSYGLSAEVKNRLLSKYDPQKEAELRTWIEGLTGLSIGPDFQKGLKD<br>GTILCTLMNKLQPG SVPKINRSMQNWHQLENLSNFIKAMVSYGMNPVDLFEANDLF<br>ESGNMTQVQVSLLAGKAKTKGLQSGV DIGVKYSEKQERNFDDATMKAGQCVIG<br>LQMGTNKCASQSGMTAYGTRRHLYDPKNHILPPMDHSTISLQM GTNKCASQVGMT<br>APGTRRHIYDTKLGTDKCDNSSMSLQMGYTQGANQSGQVFGLGRQIYDPKYCPQG<br>TVA<br>DGAPSGTGDCPDGPEVPEYPPYYQEEAGYTRTRPLEQKLISEEDLAANDILDYKDD                                                                                                        |

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|                      |                                                                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|                      | DDKV                                                                                                                                          |
| <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

|                        |                                                          |
|------------------------|----------------------------------------------------------|
| <b>Gene Name</b>       | CNN2 calponin 2 [ Homo sapiens (human) ]                 |
| <b>Official Symbol</b> | CNN2                                                     |
| <b>Synonyms</b>        | calponin 2; calponin H2, smooth muscle; neutral calponin |
| <b>Gene ID</b>         | 1265                                                     |
| <b>mRNA Refseq</b>     | NM_004368.4                                              |
| <b>Protein Refseq</b>  | NP_004359.1                                              |
| <b>MIM</b>             | 602373                                                   |

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UniProt ID

Q99439



Coomassie blue staining of purified CNN2 protein.

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