

## Recombinant Human MFN2, MYC/DDK-tagged

**Cat. No.** MFN2-36H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Recombinant Human MFN2, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | This gene encodes a mitochondrial membrane protein that participates in mitochondrial fusion and contributes to the maintenance and operation of the mitochondrial network. This protein is involved in the regulation of vascular smooth muscle cell proliferation, and it may play a role in the pathophysiology of obesity. Mutations in this gene cause Charcot-Marie-Tooth disease type 2A2, and hereditary motor and sensory neuropathy VI, which are both disorders of the peripheral nervous system. Defects in this gene have also been associated with early-onset stroke. Two transcript variants encoding the same protein have been identified. |
| <b>Molecular Mass</b>   | 86.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage Buffer</b>   | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### GENE INFORMATION

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|                            |                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | MFN2 mitofusin 2 [ Homo sapiens ]                                                                                                                                      |
| <b>Official Symbol</b>     | MFN2                                                                                                                                                                   |
| <b>Synonyms</b>            | MFN2; mitofusin 2; mitofusin-2; CMT2A2; CPRP1; KIAA0214; MARF; hyperplasia suppressor; transmembrane GTPase MFN2; mitochondrial assembly regulatory factor; HSG; CMT2A |
| <b>Gene ID</b>             | 9927                                                                                                                                                                   |
| <b>mRNA Refseq</b>         | NM_001127660                                                                                                                                                           |
| <b>Protein Refseq</b>      | NP_001121132                                                                                                                                                           |
| <b>MIM</b>                 | 608507                                                                                                                                                                 |
| <b>UniProt ID</b>          | O95140                                                                                                                                                                 |
| <b>Chromosome Location</b> | 1p36.22                                                                                                                                                                |
| <b>Pathway</b>             | Factors involved in megakaryocyte development and platelet production; Hemostasis                                                                                      |
| <b>Function</b>            | GTP binding; GTPase activity; protein binding; ubiquitin protein ligase binding                                                                                        |