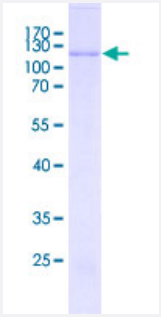
Full-Length

# MFN2 (Human) Recombinant Protein (P01)

Catalog # H00009927-P01 Size 10 ug, 25 ug

## Applications




## Specification

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| **Product Description** | Human MFN2 full-length ORF (NP_055689.1, 1 a.a. - 757 a.a.) recombinant protein with GST tag at N-terminal. |
| **Sequence** | MSLLFSRCNSIVTVKKNKRHMAEVNASPLKHFVTAKKKINGIFEQLGAYIQESATFLEDTYRNAELD PVTTEEQVLDVKGYLSKVRGISEVLARRHMKVAFFGRTSNGKSTVINAMLWDKVLPSGIGHTTNC FLRVEGTDGHEAFLLTEGSEEKRSAKTVNQLAHALHQDKQLHAGSLVSVMWPNSKCPLLKDDL VLMDSPGIDVTTELDSWIDKFCLDADVFVLVANSESTLMQTEKHFFHKVSERLSRPNIFILNNRWD ASASEPEYMEEVRRQHMERCTSFLVDELGVVDRSQAGDRIFFVSAKEVLNARIQKAQGMPEGG GALAEGFQVRMFEFQNFERRFEECISQSAVKTKFEQHTVRAKQIAEAVRLIMDSLHMAAREQQVY CEEMREERQDRLKFIDKQLELLAQDYKLRIKQITEEVERQVSTAMAEEIRRLSVLVDDYQMDFHPS PVVLKVYKNELHRHIEEGLGRNMSDRCSTAITNSLQTMQQDMIDGLKPLLPVSVRSQIDMLVPRQC FSLNYDLNCDKLCADFQEDIEFHFSLGWTMLVNRFLGPKNSRRALMGYNDQVQRPIPLTPANPS MPPLPQGSLTQEEFMVSMVTGLASLTSRTSMGILVVGGVVWKAVGWRLIALSFGLYGLLYVYERL TWTTKAKERAFKRQFVEHASEKLQLVISYTGSNCSHQVQQELSGTFAHLCQQVDVTRENLEQEIA AMNKKIEVLDSLQSKAKLLRNKAGWLDSELNMFTHQYLQPSR |
| **Host** | Wheat Germ (in vitro) |
| **Theoretical MW (kDa)** | 112.8 |
| **Interspecies Antigen Sequence** | Mouse (95); Rat (96) |
| **Preparation Method** | *in vitro* wheat germ expression system |

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| **Purification** | Glutathione Sepharose 4 Fast Flow |
| **Quality Control Testing** | 12.5% SDS-PAGE Stained with Coomassie Blue |
| **Storage Buffer** | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |
| **Storage Instruction** | Store at -80°C. Aliquot to avoid repeated freezing and thawing. |
| **Note** | Best use within three months from the date of receipt of this protein. |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — MFN2

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|---|---|
| **Entrez GeneID** | 9927 |
| **GeneBank Accession#** | NM_014874.2 |
| **Protein Accession#** | NP_055689.1 |
| **Gene Name** | MFN2 |
| **Gene Alias** | CMT2A, CMT2A2, CPRP1, HSG, KIAA0214, MARF |
| **Gene Description** | mitofusin 2 |
| **Omim ID** | 601152 608507 609260 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | 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. [provided by RefSeq |

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| **Other Designations** | OTTHUMP00000002509\|hyperplasia suppressor\|mitochondrial assembly regulatory factor\|mitofusin-2\|transmembrane GTPase MFN2 |

## Disease

- Charcot-Marie-Tooth Disease
- Genetic Predisposition to Disease
- Glaucoma
- Hereditary Sensory and Motor Neuropathy