

Recombinant Human OPA1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. OPA1-3996H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	OPA1 MS Standard C13 and N15-labeled recombinant protein (NP_570845) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a nuclear-encoded mitochondrial protein with similarity to dynamin-related GTPases. The encoded protein localizes to the inner mitochondrial membrane and helps regulate mitochondrial stability and energy output. This protein also sequesters cytochrome c. Mutations in this gene have been associated with optic atrophy type 1, which is a dominantly inherited optic neuropathy resulting in progressive loss of visual acuity, leading in many cases to legal blindness.
Molecular Mass	109.4 kDa
AA Sequence	MWRLRRAAVACEVCQSLVKHSSGIKGSPLQLKLHLVSRSIYHSHHPTLKLQRPQLRT SFQQFSSLTNLPLRKLKFSPIKYGYQPRRNFWPARLATRLLKLRLYLILGSAVGGGYTA KKTFDQWKDMIPDLSEYKWIVPDIVWEIDEYIDFGHKLVSSEVIGASDLLLLLSPEETA FRATDRGSESDKHFRKVSDKEKIDQLQEELLHTQLKYQRILERLEKENKELRKLVLQ KDDKGIHHRKLKSLIDMYSEVLDVLSDYDASYNTQDHLPRVVVVG DQSAGKTSVLE MIAQARIFPRGSGEMMTRSPVKVTLSEGGPHHVALFKDSSREFDLTKEEDLAALRHEI ELMRKNVKEGCTVSPETISLNVKGPGQLQRMVLVDLPGVINTVTSGMAPDTKETIFSI

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SKAYMQNPNAIILCIQDGSVDAERSIVTDLVSQMDPHGRRTIFVLTKVDLAEKNVASP
 SRIQQIIEGKLFPMKALGYFAVVTGKGNSSIESIAIREYEEFFQNSKLLKTSMLKAHQ
 VTTRNLSLAVSDCFWKMVRESVEQQADSFKATRFNLETWKNYPRLRELDRLNELF
 EKAKNEILDEVISLSQVTPKHWEELQQSLWERVSTHVIENIYLPAAQTMNSGTFNTT
 VDIKQKQWTDKQLPNKAVEVAWETLQEEFSRFMTEPKGKEHDDIFDKLKEAVKEESI
 KRHKWNDFAEDSLRVIQHNALEDRSISDKQQWDAAIYFMEEALQARLKDTENAIEN
 MVGPDWKKRWLYWKNRTQEQCVHNETKNELEKMLKCNEEHPAYLASDEITTVRKN
 LESRGVEVDPSLIKDTWHQVYRRHFLKTALNHCNLCRRGFYYYQRHFVDSELECND
 VVLFWRIQRMLAITANTLRQQLTNTVRRLEKNVKEVLEDAEDGEKKIKLLTGKRVQ
 LAEDLKKVREIQEKLDAFIEALHQEKSGPTRTRRLEQKLISEEDLAANDILDYKDDDDK
 V

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 OPA1 OPA1 mitochondrial dynamin like GTPase [Homo sapiens (human)]

Official Symbol OPA1

Synonyms OPA1; optic atrophy 1 (autosomal dominant); dynamin-like 120 kDa protein, mitochondrial; dynamin like guanosine triphosphatase; FLJ12460; KIAA0567; MGM1;

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mitochondrial dynamin like GTPase; NPG; NTG; optic atrophy protein 1;
 mitochondrial dynamin-like GTPase; dynamin-like guanosine triphosphatase;
 mitochondrial dynamin-like 120 kDa protein; largeG;

Gene ID [4976](#)

mRNA Refseq [NM_130832](#)

Protein Refseq [NP_570845](#)

MIM [605290](#)

UniProt ID [O60313](#)

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