

Recombinant Full Length Human OPA1 Protein, C-Flag-tagged

Cat. No. OPA1-31HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human OPA1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	109.2 kDa
AA Sequence	MWRLRRAAVACEVCQSLVKHSSGIKGSPLQKLHLVSRSIYHSHHPTLKLQRPQLRT SFQQFSSLTNLPL RKLKFSPIKYGYQPRRNFWPARLATRLLKRLYLILGSAVGGGYT AKKTFDQWKDMIPDLSEYKWIVPDIV WEIDEYIDFGHKL VSEVIGASDLLLLLSPEE TAFRATDRGSESDKHFRKVSDKEKIDQLQEELLHTQLK YQRILERLEKENKELRKL V LQKDDKGIHHRKLKSLIDMYSEVLDVLSDYDASYNTQDHLPRVVVVGDQS AGKTS VLEMIAQARIFPRGSGEMMTRSPVKVTLSEGPLHHVALFKDSSREFDLTKEEDLAALR HEIELRMR KNVKEGCTVSPETISLNVKGPGLQRMVLVDLPGVINTVTSGMAPDTKET

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IFSISKAYMQNPNAIILCIQD GSVDAERSIVTDLVSQMDPHGRRTIFVLTKVDLAEKNV
 ASPSRIQQIIEGKLFPMKALGYFAVVTGKGNS SESIEAIREYEEEEFFQNSKLLKTSML
 KAHQVTTRNLSLAVSDCFWKMVRESVEQQADSFKATRFNLETEW KNNYPRLRELD
 RNELFEKAKNEILDEVISLSQVTPKHWEEILQQSLWERVSTHVIENIYLPAAQTMNSG
 T FNTTVDIKLKQWTDKQLPNKAVEVAWETLQEEFSRFMTEPKGKEHDDIFDKLKEA
 VKEESIKRHKWNDFA EDSLRLVIQHNALEDRSISDKQQWDAAIYFMEEALQARLKDT
 ENAIENMVGPDWKKRWLYWKNRTQEQCVRH NETKNELEKMLKCNEEHPAYLASDEI
 TTVRKNLSESRGVEVDPSLIKDTWHQVYRRHFLKTALNHCNLCRR GFYYYQRHFVD
 SELECNDVVLFWRIQRMLAITANTLRQQLTNTTEVRRLEKNVKEVLEDAEDGEEKIKL
 L
 TGKRVQLAEDLKKVREIQEKLDAFIEALHQEKSGPTRTRRLEQKLISEEDLAANDILDY
 KDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

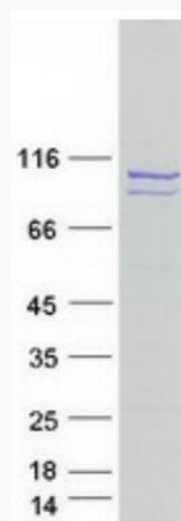
Gene Name OPA1 OPA1 mitochondrial dynamin like GTPase [Homo sapiens (human)]

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Official Symbol	OPA1
Synonyms	NPG; NTG; MGM1; BERHS; largeG; MTDPS14
Gene ID	4976
mRNA Refseq	NM_130832.3
Protein Refseq	NP_570845.1
MIM	605290
UniProt ID	E5KLK0



Coomassie blue staining of purified OPA1 protein.

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