

## Product datasheet for PH311417

### OPA1 (NM\_130832) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	OPA1 MS Standard C13 and N15-labeled recombinant protein (NP_570845)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211417
Predicted MW:	109.4 kDa
Protein Sequence:	>RC211417 representing NM_130832 Red=Cloning site Green=Tags(s)

MWRLRRAAVACEVCQSLVKHSSGIKGSPLQKLHLVSRSIYHSHHPTLKLQRPQLRTSFQQFSSLTNLPL  
RKLFKFSPIKYGYQPRNFWPARLATRLLKLRYLILGSAVGGGYTAKKTFDQWKDMIPDLSEYKWI  
VPDIV WEIDEYIDFGHKL VSEVIGASDLLLLLSPEETA FRATDRGSESDKHFRKVS  
DKEKIDQLQEELLHTQLK YQRILERLEKENKELRKLVLQKDDKGIHHRKLLKSLIDMYSEVLDVLSDYDAS  
YNTQDHLPRVVVVGQDS AGKTSVLEMIAQARI FPRGSGEMMTRSPVKVTLSE  
GPHHVALFKDSSREFDLTKEEDLAALRHEIELRMR KNVKEGCTVSPETISLNVKGPGLQRMV  
LDLPGVINTVTS GMAPDTKETIFSISKAYMQNPNAIILCIQD GSVDAERSIVTDLVSQMDPHGRRTIFV  
LTKVDLAEKNVASPSRIQQIIEGKLFPMKALGYFVVTVGKNS SESIEAIREYEEFFQNSKLLKTSMLKAHQV  
TTRNLSLAVSDCFWKMVRESVEQQADSFKATRFNLETETW KNNYPRLRELDRELFEKAKNEILDEVI  
LSQVTPKHWEIILQQSLWERVSTHVIENIYLPAAQTMNSGT FNTTVDIKLKQWTDKQLPNKAVEV  
AWETLQEEFSRFMTEPKGKEHDDIFDKLKEAVKEESIKRHKWNDFA EDSLRVIQHNALEDRSISDKQ  
QWDAIIFMEEALQARLKDTENAIENMVGPDWKKRWLYWKNRTQEQC VHNETKNELEKMLKCNEEHPAY  
LASDEITTVRKNLESRGVEVDP SLIKDTWHQVYRRHFLKLTALNHCNLCRR GFYYYQRHFVDS  
ELECNDVVLFWRIQRMLAITANTLRQQLTNTEVRRLEKNVKEVLEDF AEDGEEKIKLLTGKRVQLAEDL  
KKVREIQEKLDAFIEALHQEK

SGP TRRRLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.

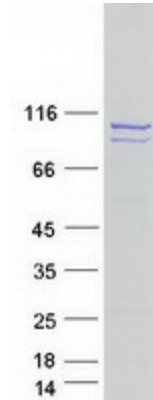


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RefSeq:	<a href="#">NP_570845</a>
RefSeq Size:	6291
RefSeq ORF:	2826
Synonyms:	BERHS; largeG; MGM1; MTDPS14; NPG; NTG
Locus ID:	4976
UniProt ID:	<a href="#">E5KCLK</a>
Cytogenetics:	3q29

**Summary:** 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. [provided by RefSeq, Aug 2017]

### Product images:



Coomassie blue staining of purified OPA1 protein (Cat# [TP311417]). The protein was produced from HEK293T cells transfected with OPA1 cDNA clone (Cat# [RC211417]) using MegaTran 2.0 (Cat# [TT210002]).