

Recombinant Human AFG1L Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. AFG1L-5649H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LACE1 MS Standard C13 and N15-labeled recombinant protein (NP_660358) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a mitochondrial integral membrane protein that plays a role in mitochondrial protein homeostasis. The protein contains a P-loop motif and a five-domain structure that is conserved in fly, yeast, and bacteria. It functions to mediate the degradation of nuclear-encoded complex IV subunits. Two conserved estrogen receptor binding sites are located within 2.5 kb of this gene. Polymorphisms in this gene have been associated with bipolar disorder. Alternative splicing results in multiple transcript variants.
Molecular Mass	54.8 kDa
AA Sequence	MAASWSLLVTLRPLAQSPLRGRCVGC GAWAAALAPLATAPGKPFWKAYTVQTSES MTPTATSETYLKALAVCHGPLDHYDFLIKAHELKDDEHQRRVIQCLQKLHEDLKGYN EAEGLFSLFSRSKPPRGLYVYGDVGTGKTMVMDMFYAYVEMKRKKRVHFHGFML DVHKRIHRLKQSLPKRKPGFMAKSYDPIAPIAEEISEEACLLCFDEFQVTDIADAMILK QLFENLFKNGV VVVVATSNRPPEDLYKNGLQRANFVPFI AVLKEYCNTVQLDSGIDYR KRELPAAGKLYYLTSEADVEAVMDKLFDELAQKQNDLTRPRILKVQGRELRLNKACG

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TVADCTFEELCERPLGASDYLELSKNFDTIFLRNIPQFTLANRTQGRRFITLIDNFYDL
KVRIICSASTPISSLFLHQHHDSELEQSRILMDDLGLSQDSAEGLSMFTGEEEEIFAFQR
TISRLTEMQTEQYWNEGDRTKKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 AFG1L AFG1 like ATPase [Homo sapiens (human)]

Official Symbol AFG1L

Synonyms AFG1L; AFG1 like ATPase; AFG1; LACE1; c222389; AFG1-like ATPase; ATPase family gene 1 homolog; CG8520 gene product; lactation elevated 1; lactation elevated protein 1

Gene ID 246269

mRNA Refseq NM_145315

Protein Refseq NP_660358

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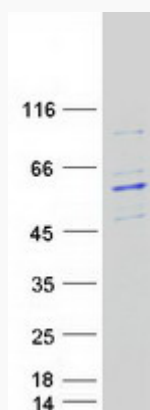
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MIM 617469

UniProt ID Q8WV93

SDS-PAGE



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