

## Product datasheet for PH302313

### AFG1L (NM\_145315) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	LACE1 MS Standard C13 and N15-labeled recombinant protein (NP_660358)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202313
Predicted MW:	54.8 kDa
Protein Sequence:	>RC202313 protein sequence Red=Cloning site Green=Tags(s)

MAASWLLVTLRPLAQSPLRGRCVCGAWAAALAPLATAPGKPFWKAYTVQTSESMPTATSETYLKALA  
VCHGPLDHYDFLIKAHELKDDEHQRRVIQCLQLHEDLKGYNIEAEGFLSKLFSRSKPPRGLVYVGDVGT  
GKTMVMDMFYAYVEMKRKRKRVHFGFMLDVHKRIHRLKQSLPKRKPFGMAKSYDPIAPIAEEISEEACLL  
CFDEFQVTDIADAMILKQLFENLFKNGVVVATSNRPEDLYKNGLQRANFVPIAVLKEYCNTVQLDSG  
IDYRKRELPAAGKLYYL TSEADVEAVMDKLFDELAQKQNDLTRPRILKVQGRELRNLKACGTVADCTFEE  
LCERPLGASDYLEL SKNFDTIFLRNIPQFTLANRTQGRRFITLIDNFYDLKVRIICSASTPISSFLHQH  
HDSELEQSRILMDDLGLSQDSAEGLSMFTGEEEIFAFQRTISRLTEMQTEQYWNEGDRTKK

TRTRPLEQKLI 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.
RefSeq:	<u><a href="#">NP_660358</a></u>
RefSeq Size:	2262
RefSeq ORF:	1443
Synonyms:	AFG1; c222389; LACE1



[View online »](#)

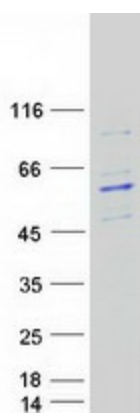
Locus ID: 246269

UniProt ID: [Q8WV93](#)

Cytogenetics: 6q21

**Summary:** 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. [provided by RefSeq, Apr 2016]

### Product images:



Coomassie blue staining of purified AFG1L protein (Cat# [TP302313]). The protein was produced from HEK293T cells transfected with AFG1L cDNA clone (Cat# [RC202313]) using MegaTran 2.0 (Cat# [TT210002]).