

Recombinant Full Length Human ATAD3A Protein, GST-tagged

Cat. No. ATAD3A-672HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATAD3A full-length ORF (BAC03595.1, 1 a.a. - 634 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	634 amino acids
Description	This gene encodes a ubiquitously expressed mitochondrial membrane protein that contributes to mitochondrial dynamics, nucleoid organization, protein translation, cell growth, and cholesterol metabolism. This gene is a member of the ATPase family AAA-domain containing 3 gene family which, in humans, includes two other paralogs. Naturally occurring mutations in this gene are associated with distinct neurological syndromes including Harel-Yoon syndrome. High-level expression of this gene is associated with poor survival in breast cancer patients. A homozygous knockout of the orthologous gene in mice results in embryonic lethality at day 7.5 due to growth retardation and defective development of the trophoblast lineage. Alternative splicing results in multiple transcript variants.
Molecular Mass	97.8 kDa
AA Sequence	MSWLFGINKG PKGEGAGPPP PLPPAQPGAE GGGDRGLGDR PAPKDKWSNF DPTGLERAAK AARELEHSRY AKDALNLAQM QEQTLQLEQQ SKLKMRLEAL SLLHTLVWAW SLCRAGAVQT QERLSGSASP EQVPAGECCA LQEYEA AVEQ

 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

LKSEQIRAQA EERRKTLSEE TRQHQARAQY QDKLARQRYE DQLKQQQLLN
 EENLRKQEEES VQKQEAMRRA TVEREMELRH KNEMLRVEAE ARARAKAERE
 NADITREQIR LKAAEHRQTV LESIRTAGTL FGEGFRAFVT DWDKVTATVA
 GLTLLAVGVY SAKNATLVAG RFIEARLGKP SLVRETSRIT VLEALRHPIQ
 VSRRLLSRPQ DALEGVVLSP SLEARVRDIA IATRNTKKNR SLYRNILMYG
 PPGTGKTLFA KKLALHSGMD YAIMTGGDVA PMGREGVTAM HKLFDWANTS
 RRGLLLFVDE ADAFLRKRAE EKISEDLRAT LNAFLYRTGQ HSNKFMLVLA
 SNQPEQFDWA INDRINEMVH FDLPGQEERE RLVRMYFDKY VLKPATEGKQ
 RLKLAQFDYG RKCSEVARLT EGMSGREIAQ LAVSWQATAY ASEDGVLTEA
 MMDTRVQDAV QQHQQKMCWL KAEGPGRGDE PSPS

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

ATAD3A ATPase family, AAA domain containing 3A [Homo sapiens]

Official Symbol

ATAD3A

Synonyms

ATAD3A; ATPase family, AAA domain containing 3A; ATPase family AAA domain-
 containing protein 3A; FLJ10709; FLJ35514

Gene ID

55210

mRNA Refseq

NM_001170535

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Protein Refseq	NP_001164006
MIM	612316
UniProt ID	Q9NVI7

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