

Datasheet for ABIN3136421

ATAD2 Protein (AA 1-1040) (Strep Tag)



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Overview

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| Quantity: | 250 µg |
| Target: | ATAD2 |
| Protein Characteristics: | AA 1-1040 |
| Origin: | Mouse |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This ATAD2 protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

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| Brand: | AliCE® |
| Sequence: | <p>MSLLKMRRHA IHSSDSTSSS SSEDDCFERR TKNRNRRAIN RCLPLNFRKD EIRGIYKDRM</p> <p>KIGASLADVD PMQLDTSVRF DSVGGLSSHI AALKEMVVFP LLYPEVFEKF KIQPPRGCLF</p> <p>YGPPGTGKTL VARALANECs RGDKRVAFFM RKGADCLSKW VGESERQLRL LFDQAYQMRP</p> <p>AIFFDEIDG LAPVRSSRQD QIHSSIVSTL LALMDGLDSR GEIVVIGATN RLDSIDPALR</p> <p>RPGRFDREFL FSLPDKNARK EILKIHDRDW NPKPVD MFLE ELAEHCVGYC GADIKSICAE</p> <p>AALCALRRRY PQIYTTSEKL QLDLSSITIS AKDFEALQK IRPASQRAVT SPGQALSAIV</p> <p>KPLLQNTVHR ILDALQKVFP HVEVG TNKSL NSDVSCP FLE SDLAYSDDDT PSVYENGLSQ</p> <p>KENLNFLHLN RNACYQPMSF RPRL LIVGEP GFGQSSHLAP AVIHALEKFT VYTLDIPVLF</p> <p>GISTTSPEEA CSQMIREAKR TAPSIVVYPH IHLWWEIVGP TLKATFTTLL QTIPSFAPVL</p> <p>LLATSEKPYS ALPEEVQELF THDYGEIFNV QLPDKEERTK FFEDLILKQA SKPPVSQKKA</p> <p>VLQALEVLPV APPPEPRPLT AEEVKRLEE Q EEDTFRELRI FLRNVTHRLA IDKRFRVFTK</p> |

PVDPDEVDPDY VTVIKQPM DL SSVISKIDLH KYLTVKDYLK DIDLICSNAL EYNPDRDPGD
RLIRHRACAL RDTAYAIKE ELDEDFEQLC EEIQESRKRR GCSSSKYAPS YYHVMPKQNS
PPVGDKKPDQ EQNEKLKVPC TPVACSTPAQ LKRKFHKKSK WHVGTKIKRR KISQAKDNSL
NAMNSSSRSD TEDSQHTHAE HTEPGNTDES SVEESDKQNR LESNIDLKNN SSSSNIENEL
EETKETTEGT ELRKDRIVCR GDASASQVTD IPEDSESKEM DFLRMTLARG SQVEQQELIS
MEQALAILSQ PTPSLVLDHK QLTNILKTVV KKSQKYNIFQ LENLYAVISQ CIYEHRRDYD
KTALVQKMEQ AVENFNCSRS

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.

Product Details

- The protein's absorbance will be measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: ATAD2

Alternative Name: Atad2 ([ATAD2 Products](#))

Background: ATPase family AAA domain-containing protein 2 (EC 3.6.1.-),FUNCTION: May be a transcriptional coactivator of the nuclear receptor ESR1 required to induce the expression of a subset of estradiol target genes, such as CCND1, MYC and E2F1. May play a role in the recruitment or occupancy of CREBBP at some ESR1 target gene promoters. May be required for histone hyperacetylation (By similarity). {ECO:0000250}.

Molecular Weight: 117.9 kDa

UniProt: [Q8CDM1](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's

Application Details

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|---------------|---|
| | needed is the DNA that codes for the desired protein! |
| Restrictions: | For Research Use only |

Handling

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |