

Datasheet for ABIN3136078

## AATK Protein (AA 1-1365) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	AATK
Protein Characteristics:	AA 1-1365
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AATK protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p> MSSSFFNPSF AFSSHFDPDG APLSELSWSS SLAVVAVSFS GIFTVVILML ACLCCKKGGI  GFKEFENAEG DEYVADFSEQ GSPAAAAQTG PDVYVLPLTE VSLPMAKQPG RSVQLLKSTD  LGRHSLLYLK EIGHGWFGKV FLGEVHSGVS GTQVVVKELK VSASVQEQMQ FLEEAQPYRA  LQHSNLLQCL AQCAEVTPYL LVMEFCPLGD LKGYLRSCRV TESMAPDPLT LQRMACEVAC  GVLHLHRHNY VHSDLALRNC LLTADLTVKV GDYGLSHCKY REDYLVADQ LWVPLRWIAP  ELVDEVHGNI LVVDQTKSSN VWSLGVTIWE LFELGAQPYP QHSDRQVLAY AVREQQLKLP  KPQLQLALSD RWYEVQMFCW LQPEQRPTAE EVHLLLSYLC AKGTTELEEE FERRWRSLRP  GGSTGLGSGS AAPAAATAAS AELTAASSFP LLERFTSDGF HVDSDDVLTV TETSHGLNFE  YKWEAGCGAE EYPPSGAASS PGSAARLQEL CAPDSSPPGV VPVLSAHSPP VGSEYFIRLE  GAVPAAGHDP DCAGCAPSPQ AVTDQDNNSE ESTVASLAME PLLGHAPTE GLWGPCDHHS  HRRQGSPCPS RSPSPGTPML PAEDIDWGVA TFCPPFFDDP LGASPSGSPG AQPSPSDEEP </p>

EEGKVGGLAAQ CGHWSSNMSA NNNSASRDPE SWDPGYVSSF TDSYRDDCSS LEQTPRASPE  
VGHLLSQEDP RDFLPGLVAV SPGQEPSRPF NLLPLCPAKG LAPAACLITS PWTEGAVGGA  
ENPIVEPKLA QEAEGSAEPQ LPLPSVSPSPS CEGASLPSEE ASAPDILPAS PTPAAGSWWT  
VPEPAPTLES SGSSLGQEAP SSEDEDTTEA TSGVFTDLSS DGPHTKSGI VPALRSLQKQ  
VGTPDSLDSL DIPSSASDGG CEVLSPSAAG PPGGQPRAVD SGYDTENYES PEFVLKEAHE  
SSEPEAFGEP ASEGESPGPD PLLSVSLGGL SKKSPYRDSA YFSDLDAESE PTFGPEKHSG  
IQDSQKEQDL RSPSPGHQS VQAFPRSAVS SEVLSPQQS EEPLPEVPRP EPLGAQGPVG  
VQVPVGPSPHS KCFPLTSVPL ISESGGTEPQ GPSGQLSGRA QQGQMGNPST PRSPLCLALP  
GHPGALEGRP EEDEDTEDSE ESDEELRCYS VQEPSEDSEE EPPAVPVVVA ESQSARNLRS  
LLKMPSLLSE AFCDDLKRRK KAVSFFDDVT VYLFQESPT RETGEPFPST KESLPTFLEG  
GPSSPSATGL PLRAGHSPDS SAPEPGSRFE WDGDFPLVPG KAALVTELDP ADPVLAAPPT  
PAAPFSRFTV SPTPASRFSI THISDSDAQS VGGPAAGAGG RYTEA

**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.**

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### 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

## Product Details

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.
- 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:	AATK
Alternative Name:	Aatk ( <a href="#">AATK Products</a> )
Background:	Serine/threonine-protein kinase LMTK1 (EC 2.7.11.1) (Apoptosis-associated tyrosine kinase) (AATYK) (Brain apoptosis-associated tyrosine kinase) (Lemur tyrosine kinase 1),FUNCTION: May be involved in neuronal differentiation. {ECO:0000250}.
Molecular Weight:	144.6 kDa
UniProt:	<a href="#">Q80YE4</a>
Pathways:	<a href="#">RTK Signaling</a> , <a href="#">Regulation of Cell Size</a>

## 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 <i>Nicotiana tabacum</i> 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

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Restrictions: For Research Use only

Handling

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