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## Datasheet for ABIN3135866 IBTK Protein (AA 1-1352) (Strep Tag)

### Overview

Quantity:	1 mg
Target:	IBTK
Protein Characteristics:	AA 1-1352
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IBTK protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Sequence:	MDAATPDCTS KCRSLKHALD VLSVVTKGSE SQIKSFLARY CYNAATVKDA FGRNAGHLAS SCGKKGVLDW LIEKGVDLLV KDKESGWTAL HRSVFYGHID CVWSLLKHGV SLYMQDKEGL SPLDLLMKDR PTHVVFKDTD PTEVYTWGDN TNFTLGHGSQ NSKHHPPELLD LFSRSGVYVK QVVLCKFHSV FLSQKGQVYT CGHGRGGRLG HGDEQTCLVP RLVEGLSGHN CSQVAAAKDH TVVLTDDGCV YTFGLNMFHQ LGIIPPPASC NVPRQIQAKY LKGRTIIGVA AGRFHTVLWT REAVYTLGLN GGQLGHLLDP NGEKCVTPPR QVSALHHKDI AVSLVAASDG ATVCVTTTRGD IYLLADYQCK KMATKQLNLK KVLVSGGCME YKVDPEHLTE NGGQKICVLA MDGAGRVCW RSISSSLKQC RWAYPRQVSI SDIALNRNEI LFVTQDGEFG KGKWFEDKRK NSEKKADILP NLHHSSSDVS CVPDTNSVYE RIRLEKLPFA HRAVSVSTDP SGCNFAILQS DPKTSLYEIP VVSSSSFFEE FGKLLRETDE MDSFHDVTFQ VGNRHFFPAHK YILAVRSDFF QKLFLSDGSS LELTDVYQKD EDAAGCHLFV VEKVHPDLFE YLLQFMYTDT CDLLTHGFKP RMIVKRKAED CEGSPDShLH TVNCHVDDKQ KSAFEVYRSN QAHTLSERQK SKPKSSKKGK GVGDDDPVRM
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LQSVAKKFGL SNLSSRLEGV RLENEKINVI AKKTGNKLKL SQKKCSFLYD VTMKSVDGKE  
FSCHKCVLCA RLEYFHSMLS RSWIEASSCA ALEMPIQSEI LKVILDYLYT DEAVVIKESQ  
NVDFVCSVLV VADQLLITRL KEICEVALTE NLTLKNAAML LEFAALYNAG QLKLSCLQFI  
GLNMAALLEA RSLDVLSDEV LKDLSIFYRK MIPAMERRVI TPYQDGPDIS SMQVEDGEVF  
FKEEINMEPN YSETMFKKAK TRAKKKPRKR SDSSGGYTLS DVIQSPPSAG LLKSAKTNSV  
ESLPELLTSD SEGSYAGVAS PRDLQSPDFT AGFHSDKVEG KAKPYVNGIP PPCTREDVKP  
WEKSPTTKSA PQFIPSNRVD TAASSSWLAG SCSPVSPPVV DLRTIMETEE NRQKYGAAPK  
SNLGKIISHG IKLSQKQRKM IALTTKENNS GTNSMEAILT APSKSPKPAN AWAPLHSPLS  
RSFRDFLLEE KKPVPGYGSG DHVKKVCFKG TENSALNVA RCSTHGTPGL ESNHVSDFPL  
LDSPNPWQSS SLAASPAVAP VTFASIVEEE RQQAALIRS REKPLALIQV EEHAIQDLLV  
FYEAFGNPEE FVVVERAPQG PLAVPMWNKH GC

**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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):  1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

## Target Details

Target:	IBTK
Alternative Name:	lbtok ( <a href="#">IBTK Products</a> )
Background:	Inhibitor of Bruton tyrosine kinase (IBtk),FUNCTION: Acts as an inhibitor of BTK tyrosine kinase activity, thereby playing a role in B-cell development. Down-regulates BTK kinase activity, leading to interference with BTK-mediated calcium mobilization and NF-kappa-B-driven transcription (By similarity). {ECO:0000250}.
Molecular Weight:	149.6 kDa
UniProt:	<a href="#">Q6ZPR6</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
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## Application Details

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guarantee though.

Comment:

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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!

Restrictions:

For Research Use only

## Handling

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Format:

Liquid

Buffer:

The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice:

Avoid repeated freeze-thaw cycles.

Storage:

-80 °C

Storage Comment:

Store at -80°C.

Expiry Date:

Unlimited (if stored properly)