

Datasheet for ABIN3123726  
**KIF18B Protein (AA 1-834) (Strep Tag)**



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## Overview

Quantity:	1 mg
Target:	KIF18B
Protein Characteristics:	AA 1-834
Origin:	Mouse
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIF18B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence:	MVMAVEDSVV RVVVRVRPPT PKELESQRRP VIQVVDERML VFDPEECDGG FPGLKWSGSH NGPKKKGKDL TFFVDRVFE MATQEDVFQH TTHNILDSFL QGYNCVFAY GATGAGKTHT MLGREGEPGI MYLTTMELYR RLEARQEEKQ FEVLISYLEV YNEQIHDLE PKGPLTIRE PDKGVVVPGL SFHQPASAEQ LLEMLTRGNC SRTQHPTDAN ATSSRSHAIF QIFVKQQDRV PGLTQALRVA KMSLIDLAGE ERASSTHAKG ERLREGANIN RSLALINVL NALADAKGRK SHVPYRDSKL TRLLKDSIGG NCRTVMIAAI SPSSLTYEDT YNTLKYADRA KEIRLTLKSN VISVDHHISQ YATICQQLQA EVAFLREKLQ MYEAGAQUALQ QQCSPQPPTL SIPQSLSSSS LQPGPSSQSS TLECHAKNET LQEEESLQSDA QGQEIVEESA SEQEQCPQDK QCPTQKPEPN LPGSPSPSVQ AKPGTGQHSP QKQDADHSKQ LALQVRLAQ RQYSLQAAN LLTPDMISEF ETLQQLVLEE SVDHRAESPR SPALARGDPL AQALCSESKS SGYCGPVTRT MAKQLNGLTH TLGAPLAPDC TSDKTFQKPT KEKKRKLTP EPGSLPAPNL EMKRQRQSFL PCLRRGSLPK AQPCSEPRTP KRERASSPSP SSRVCPATVI KSRVPLGPSA LQNCSTPLAL PTRDLNNTFFN
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VSEESPSKPS FQEFVDWEKV SPELNSTDQP FLPSAPVFIF TKGRKPSLPA VTASKKRRTM  
RPSVSRGRSC IARLHSSTLK KPNRPFTVPE PPLSPHCLDD QRTPKGLTGV TESY

**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 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.

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### Purification:

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

## Product Details

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

## Target Details

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Target: KIF18B

Alternative Name: Kif18b ([KIF18B Products](#))

Background: Kinesin-like protein KIF18B,FUNCTION: In complex with KIF2C, constitutes the major microtubule plus-end depolymerizing activity in mitotic cells. Its major role may be to transport KIF2C and/or MAPRE1 along microtubules (By similarity). {ECO:0000250}.

Molecular Weight: 91.9 kDa

UniProt: [Q6PFD6](#)

## Application Details

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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.

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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.

## Handling

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months