

Datasheet for ABIN3093487

## KIF19 Protein (AA 1-998) (Strep Tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	KIF19
Protein Characteristics:	AA 1-998
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIF19 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### Product Details

Sequence: MKDSGDSKDQ QLMVALRVRP ISVAELEE GA TLIAHKVDEQ MVVLM DPMED PDDILRAHRS  
REKSYLFDVA FDFTATQEMV YQATTKSLIE GVISGYNATV FAYGPTGCGK TYTMLGTDQE  
PGIYVQTLND LFRAIETS N DMEYEVSMSY LEIYNEMIRD LLNPSLGYLE LREDSKGVIIQ  
VAGITEVSTI NAKEIMQLLM KGNRQRTQEP TAANQTSSRS HAVLQVTVRQ RSRVKNILQE  
VRQGRLFMID LAGSERASQT QNRGQRMKEG AHINRSLAL GNCINALSDK GSNKYINYRD  
SKLTRLLKDS LGGNSRTVMI AHISPASSAF EESRNTLYA GRAKNIKTRV KQNLNVSYH  
IAQYTSIIAD LRGEIQLKR KIDEQTGRGQ ARGRQDRGDI RHIQAEVQLH SGQGEKAGMG  
QLREQLASAF QEQMDVRRRL LELNRAMEV QIDTSRHLLT IAGWKHEKSR RALKWREEQR  
KECYAKDDSE KSDTGDDQP DILEPPEVAA ARESIAALVD EQKQLRKQKL ALEQRCRELR  
ARGRRLEETL PRRIGSEEQR EVLSLLCRVH ELEVENTEMQ SHALLRDGAL RHRHEAVRRL  
EQHRSLCDEI IQGQRQIIDD YNLAVPQRLE ELYEVYLREL EEGSLEQATI MDQVASRALQ  
DSSLPKITPA GTSLTPDSDL ESVKTLSSDA QHLQNSALPP LSTESEGHHV FKAGTGAWQA

KSSSVPTPPP IQLGSLVTQE APAQDSLGSW INSSPDSSN LSEIPLSHKE RKEILTGTKC  
IWKAAARRRS RALGTEGRHL LAPATERSSL SLHSLSEGDD ARPPGPLACK RPPSPTLQHA  
ASEDNLSSST GEAPRAVGH HGDGPRPWL R GQKSLGKKR EESLEAKRRK RRSRSFEVTG  
QGLSHPKTHL LGPHQAERIS DHRMPVCRHP APGIRHLGKV TLPLAKVKLP PSQNTGPGDS  
SPLAVPPNPG GGSRRATRGP RLPHGTSTHG KDGCSRHN

**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 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

## Product Details

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specific reference buffer.

- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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

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Target:	KIF19
Alternative Name:	KIF19 ( <a href="#">KIF19 Products</a> )
Background:	Kinesin-like protein KIF19,FUNCTION: Plus end-directed microtubule-dependent motor protein that regulates the length of motile cilia by mediating depolymerization of microtubules at ciliary tips. {ECO:0000250}.
Molecular Weight:	111.3 kDa
UniProt:	<a href="#">Q2TAC6</a>

## 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 <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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## Application Details

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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. 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)

## Images

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process