

Datasheet for ABIN3135657

## STK36 Protein (AA 1-1316) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	STK36
Protein Characteristics:	AA 1-1316
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STK36 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MEKYHVLEMI GEGSFGRVYK GRKKYSAQVV ALKFIPKLGR SEKELRNLQR EIEIMRGLWH</p> <p>PNIVHMLDSF ETDKEVVVVT DYAEGELFQI LEDDGKLPED QVQAIAAQLV SALYYLHSHR</p> <p>ILHRDMKPQN ILLAKGGGIK LCDFGFARAM STNTMVLTSI KGTPLYMSPE LVEERPYPDHT</p> <p>ADLWSVGCIL YELAVGTTPPF YTTSIFQLVS LILKDPVRWP STISSCFKNF LQGLLTKDPR</p> <p>QRLSWPDLLH HPFIAGRVTI ITEPAGSDLG TPFTSRLPPE LQVLKDEQAH RLAPKGNQSR</p> <p>ILRQACKLMA EEAKQKEDQN AGSALEQEDG LCKVTPSTAP VPGLKATPQE SSLLAGILAS</p> <p>EMKNNWEDWG AGEAPRTSRE NHINLECEQG FPEPRPEAMG RQSTDVVDPE NEEPDSDDDEW</p> <p>QRLLETSEPG PVQLKSPLTL LCNPDFCQRI QSCLRGTGEQ ILKGVLDGVS HLLPVLRILS</p> <p>SLLSSCNSDV LLYSFCQEAG LPELPLSLLR YSQESSIIQ QPWYGALLRD LVAVVQAYFS</p> <p>CTFNLERSQT GDSLQVFQEA ASFLDLLGK LLAQSDDSEQ TFRDRLMCF AVLCEAVDGN</p> <p>SWAVSKAFYS SLLTTQRAVL DGLLHGLTVP QLPFHTPPGA PQVSQPLREQ SEDVPGAIS</p>

ALAAMCTAPV GLPSCWDAKE QVSWHLANQL TEDSSQLRPS LISGLRHHVL CLHLLKVLYA  
CCYISERLCH ILGQEPLALE SLLMLVQGKV KVADWEESTE VALYLLSLLV FRLQDLPSGM  
EKL GSEVATL FTHSHVSVLV NAAACLLGQL GQQGVTFDLQ PREWIAAAAH ALSAPAEVRL  
TPPYSCGFYD GLLILLQLL MQVQKGKPLI RDVVGSEVWT ILWHRFSMAL RLPEEVSAQE  
DDL LSSPSS LEPDWTLISP QGMAALLSLA MAIFTQESQL CLSHLSQHGS VLMLTLKHLL  
SPSFLHHSQ APQGPEFLPV VVLSVCKLLC FPFALDVDAD LLVGV LADLR ASEVVVCLLQ  
VCCHHLSLLQ AELPIGLLTR LALTDSASLK QFVNTVATSS RAIISFLSVV LLS DQPLMIS  
DLLSLLTHTA RILSPSHLSF IQELLSGSDE SYRPLRSLLG HSENTVRVRA YGLLGHLLQH  
SMALRGALQS QSGLLNLLLL GLGDKDPAVR RSASFAVGNA AYQAGPLGPA LAAAVPSMTQ  
LLGDAQDGIR RNAASALGNL GPEGLGKELL KCQVPQRLLE MACGDPQPTV KEAALIALRS  
LQQESCIHQV LVSLGASEKL ALLSLGNQLL PNSSNRPASV RHC RKLIQLL RPTHST

**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 -

## Product Details

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:	STK36
Alternative Name:	Stk36 ( <a href="#">STK36 Products</a> )
Background:	<p>Serine/threonine-protein kinase 36 (EC 2.7.11.1) (Fused homolog),FUNCTION: Serine/threonine protein kinase which plays an important role in the sonic hedgehog (Shh) pathway by regulating the activity of GLI transcription factors. Controls the activity of the transcriptional regulators GLI1, GLI2 and GLI3 by opposing the effect of SUFU and promoting their nuclear localization. GLI2 requires an additional function of STK36 to become transcriptionally active, but the enzyme does not need to possess an active kinase catalytic site for this to occur. Required for postnatal development, possibly by regulating the homeostasis of cerebral spinal fluid or ciliary function. Essential for construction of the central pair apparatus of motile cilia.</p> <p>{ECO:0000269 PubMed:16055717, ECO:0000269 PubMed:18600476, ECO:0000269 PubMed:19305393}.</p>
Molecular Weight:	144.2 kDa
UniProt:	<a href="#">Q69ZM6</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.
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## Application Details

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Comment:	<p>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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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## Handling

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