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Datasheet for ABIN3095349  
**SEC16B Protein (AA 1-1060) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	SEC16B
Protein Characteristics:	AA 1-1060
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This SEC16B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence: MELWAPQRLP QTRGKATAPS KDPDRGFRRD GHHRPVPHSW HNGERFHQWQ DNRGSPQPQQ  
EPRADHQQQP HYASRPGDWH QPVSGVDYIE GGYRNQLYSR PGYENSYQSY QSPTMREEYA  
YGSYYYHGHP QWLQEERVPR QRSPYIWHED YREQKYLDEH HYENQHSPFG TNSETHFQSN  
SRNPCKDSPA SNSGQEWPG E LFP G SLLAEA QKNKPSLASE SNLLQQRESG LSSSSYELSQ  
YIRDAPERDD PPASAAWSPV QADVSSAGPK APMKFYIPHV PVSFGPGGQL VHVGPSSPTD  
GQAALVELHS MEVILNDSEE QEEMRSFSGP LIREDVHKVD IMTFCQQKAA QSCKSETLGS  
RDSALLWQLL VLLCRQNGSM VGSDIAELLM QDCKKLEKYK RQPPVANLIN LTDEDWPVLS  
SGTPNLLTGE IPPSVETPAQ IVEKFTRLLY YGRKKEALEW AMKNHLWGHA LFLSSKMDPQ  
TYSWVMSGFT STLALNDPLQ TLFQLMSGRI PQAATCCGEK QWGDWRPHLA VILSNQAGDP  
ELYQRAIVAI GDTLAGKGLV EAAHFCYLMA HVPFGHYTVK TDHLVLLGSS HSQEFLKFAT  
TEAIQRTEIF EYCQMLGRP K SFIPSFQVYK LLYASRLADY GLVSQALHYC EAIGAAVLSQ  
GESSHPVLLV ELIKLAEK LK LSDPLVLERR SGDRDLEPDW LAQLRRQLEQ KVAGDIGDPH

PTRSDISGAG GTTTENTFYQ DFSGCQGYSE APGYRSALWL TPEQTCLLQP SPQQPFPLQP  
GSYPAGGGAG QTGTPRPFYS VPETHLPGTG SSVAVTEATG GTVWEEMLQT HLGPGENTVS  
QETSQPPDGQ EVISKPQTPL AARPRSISES SASSAKEDEK ESSDEADKNS PRNTAQRGKL  
GDGKEHTKSS GFGWFSWFRS KPTKNASPAG DEDSSDSPDS EETPRASSPH QAGLGLSLTP  
SPESPPLPDV SAFSRGRGGG EGRGSASSGG AAAGAGVGGL SGPEVSFEL CSNPGVLLPP  
PALKGAVPLY NPSQVPQLPT ATSLNRPNRL AQRRYPTQPC

**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.

## Product Details

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- 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.

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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)

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## Target Details

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Target:	SEC16B
Alternative Name:	SEC16B ( <a href="#">SEC16B Products</a> )
Background:	Protein transport protein Sec16B (Leucine zipper transcription regulator 2) (Regucalcin gene promoter region-related protein p117) (RGPR-p117) (SEC16 homolog B),FUNCTION: Plays a role in the organization of the endoplasmic reticulum exit sites (ERES), also known as transitional endoplasmic reticulum (tER). Required for secretory cargo traffic from the endoplasmic reticulum to the Golgi apparatus (PubMed:17192411, PubMed:21768384, PubMed:22355596). Involved in peroxisome biogenesis. Regulates the transport of peroxisomal biogenesis factors PEX3 and PEX16 from the ER to peroxisomes (PubMed:21768384). {ECO:0000269 PubMed:17192411, ECO:0000269 PubMed:21768384, ECO:0000303 PubMed:22355596}.
Molecular Weight:	116.6 kDa
UniProt:	<a href="#">Q96JE7</a>

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## 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.
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## Application Details

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**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. 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)