

Datasheet for ABIN3136984

## SYTL2 Protein (AA 1-950) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	SYTL2
Protein Characteristics:	AA 1-950
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SYTL2 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p>MIDLSFLTEE EQDAILKVLQ RDAALKRAEE ERVRHLPEKI KDDQQLKNMS GQWFYEAKAK</p> <p>RHRDKIHGAD IIRASMRRKK LPAAAEQNKD TAMRAKESWV NNVNKDAVLP PEIAVVEEPE</p> <p>DDTDPAGPSS SLVDPASSVI DMSQESTRTP AVSLPKQRKN PFNSPKLPED HSLQQTKEPEQ</p> <p>SKTGKAGLFQ ISKEGELSES KEKSSIPDMP RQQLEKPKQT VSTEPENASH TKAIPKARK</p> <p>LIYKSNDEK DDNQSFPRQR RDSLNARGAP RGILKRNSSS SSTDSETLRL NYNLDPKSKI</p> <p>LSPGLTIHER ISEKEFSLED DSSTSSLEPL KHVRFSAVKN ELPQSPRPVL GQEVGEFTVL</p> <p>ESDQLQNGTE DAGDIEEFQN HPELSHKTPL SHYQLVSSPS DSGREREQLM SSGSAPRDEI</p> <p>PCHSDILPTG PQCVESSESVI NGQQEKSSHF TKLPSELSKS PSDELTQCGE PEPSQTADHS</p> <p>FRDHRQGSEE EHSPVLKTL RRAARKLPSK SLEDIPSDSS NQAKVDNLPE ELVRS AEDDQ</p> <p>KADQEPDTNE CIPGISTVPS LPDNQFSPHD KLRMSKSV AFLLQDESDDR ETDTASESSY</p> <p>QLRRYKKSPS SLTNLSSSSG MTSLSASGS VMSVYSGDFG NLEVKGSVQF ALDYVESLKE</p>

LHVFVAQCKD LAAADVKKQR SDPYVKTYLL PDKGKMGKKK TLVVKKTLNP VYNEILRYKI  
ERQFLKTQKL NLSVWHRDTF KRNSFLGEVE LDLETWDWDS KQNKQLKWYP LKRKTAPVAL  
ETENRGEMKL ALQYVPEPSP GKKLPTTGEV HIWVKECLDL PLLRGSHLNS FVKCTILPDT  
SRKSRQKTRA VGKTTNPVFN HTMVYDGFRP EDLMEACVEL TVWDHYKLTN QFLGGLRIGF  
GTGKSYGTEV DWMDSTSEEV ALWEKMNNSP NTWVEATLPL RMLLIKLSK

**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.

## Product Details

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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

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Target:	SYTL2
Alternative Name:	Sytl2 ( <a href="#">SYTL2 Products</a> )
Background:	Synaptotagmin-like protein 2 (Exophilin-4),FUNCTION: Isoform 11 acts as a RAB27A effector protein and plays a role in cytotoxic granule exocytosis in lymphocytes. Required for cytotoxic granule docking at the immunologic synapse. Isoform 1 may play a role in melanosome transport and vesicle trafficking. It controls melanosome distribution in the cell periphery and regulates melanocyte morphology. Isoform 1 acts as a positive mediator of mucus secretion by the surface mucus cells of the stomach. Mediates basal mucus secretion by gastric surface cells by promoting the proper granule biogenesis and docking of mucus granules with the apical plasma membrane. {ECO:0000269 PubMed:15543135, ECO:0000269 PubMed:16716193, ECO:0000269 PubMed:18266782}.
Molecular Weight:	106.8 kDa
UniProt:	<a href="#">Q99N50</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:	<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</p>

Application Details

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Restrictions: For Research Use only

Handling

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