Datasheet for ABIN3095231

# SEC31A Protein (AA 1-1220) (Strep Tag)

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## Overview

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| Quantity: | 250 µg |
| Target: | SEC31A |
| Protein Characteristics: | AA 1-1220 |
| Origin: | Human |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This SEC31A protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

## Product Details

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| Brand: | AliCE® |
| Sequence: | MKLKEVDRTA MQAWSPAQNH PIYLATGTSA QQLDATFSTN ASLEIFELDL SDPSLDMKSC ATFSSSHRYH KLIWGPYKMD SKGDVSGVLI AGGENGNIIL YDPSKIIAGD KEVVIAQNDK HTGPVRALDV NIFQTNLVAS GANESEIYIW DLNNFATPMT PGAKTQPPED ISCIAWNRQV QHILASASPS GRATVWDLRK NEPIIKVSDH SNRMHCSGLA WHPDVATQMV LASEDDRLPV IQMWDLRFAS SPLRVLENHA RGILAIAWSM ADPELLLSCG KDAKILCSNP NTGEVLYELP TNTQWCFDIQ WCPRNPAVLS AASFDGRISV YSIMGGSTDG LRQKQVDKLS SSFGNLDPFG TGQPLPPLQI PQQTAQHSIV LPLKKPPKWI RRPVGASFSF GGKLVTFENV RMPSHQGAEQ QQQQHHVFIS QVVTEKEFLS RSDQLQQAVQ SQGFINYCQK KIDASQTEFE KNVWSFLKVN FEDDSRGKYL ELLGYRKEDL GKKIALALNK VDGANVALKD SDQVAQSDGE ESPAAEEQLL GEHIKEEKEE SEFLPSSGGT FNISVSGDID GLITQALLTG NFESAVDLCL HDNRMADAII LAIAGGQELL ARTQKKYFAK SQSKITRLIT AVVMKNWKEI VESCDLKNWR EALAAVLTYA |

KPDEFSALCD LLGTRLENEG DSLLQTQACL CYICAGNVEK LVACWTKAQD GSHPLSLQDL IEKVVILRKA VQLTQAMDTS TVGVLLAAKM SQYANLLAAQ GSIAAALAFL PDNTNQPNIM QLRDRLCRAQ GEPVAGHESP KIPYEKQQLP KGRPGPVAGH HQMPRVQTQQ YYPHGENPPP PGFIMHGNVN PNAAGQLPTS PGHMHTQVPP YPQPQPYQPA QPYPFGTGGS AMYRPQQPVA PPTSNAYPNT PYISSASSYT GQSQLYAAQH QASSPTSSPA TSFPPPPSSG ASFQHGGPGA PPSSSAYALP PGTTGTLPAA SELPASQRTG PQNGWNDPPA LNRVPKKKKM PENFMPPVPI TSPIMNPLGD PQSQMLQQQP SAPVPLSSQS SFPQPHLPGG QPFHGVQQPL GQTGMPPSFS KPNIEGAPGA PIGNTFQHVQ SLPTKKITKK PIPDEHLILK TTFEDLIQRC LSSATDPQTK RKLDDASKRL EFLYDKLREQ TLSPTITSGL HNIARSIETR NYSEGLTMHT HIVSTSNFSE TSAFMPVLKV VLTQANKLGV

**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.**

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!

## Product Details

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| | Concentration:<br>• The concentration of our recombinant proteins is measured using the absorbance at 280nm.<br>• The protein's absorbance will be measured against its specific reference buffer.<br>• 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

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| Target: | SEC31A |
| Alternative Name: | SEC31A (SEC31A Products) |
| Background: | Protein transport protein Sec31A (ABP125) (ABP130) (SEC31-like protein 1) (SEC31-related protein A) (Web1-like protein),FUNCTION: Component of the coat protein complex II (COPII) which promotes the formation of transport vesicles from the endoplasmic reticulum (ER) (PubMed:10788476). The coat has two main functions, the physical deformation of the endoplasmic reticulum membrane into vesicles and the selection of cargo molecules (By similarity). {ECO:0000250\|UniProtKB:Q9Z2Q1, ECO:0000269\|PubMed:10788476}. |
| Molecular Weight: | 133.0 kDa |
| UniProt: | O94979 |
| Pathways: | ER-Nucleus Signaling |

## 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. |

## Application Details

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| | 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! |
| Restrictions: | For Research Use only |

## Handling

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