

Datasheet for ABIN3135074

SEC31A Protein (AA 1-1230) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	SEC31A
Protein Characteristics:	AA 1-1230
Origin:	Mouse
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

Brand:	AlIcE®
Sequence:	<p>MKLKEIDRTA MQAWSPAQNH PIYLATGTSA QQLDATFSTN ASLEIFELDL SDPSLDMKSC</p> <p>ATFSSSHRYH KLIWGPHKMD SKGDVSGVLI AGGENGNIIL YDPSKIIAGD KEVVIAQKDK</p> <p>HTGPVRALDV NIFQTNLVAS GANESEIYW DLNNFATPMT PGAKTQPPED ISCIAWNRRQV</p> <p>QHILASASPS GRATVWDLRK NEPIIKVSDH SNRMHCGLA WHPDVATQMV LASEDDRLPV</p> <p>IQMWDLRFAS SPLRVLENHA RGILAVAWSM ADPELLLSCG KDAKILCSNP NTGEVLYELP</p> <p>TNTQWCFDIQ WCPRPNAVLS AASFDGRISV YSIMGGSIDG LRQKQVDKLS SSFGNLDPPFG</p> <p>TGQPLPPLQI PQQSAQHSIV LPLKKPPKWI RRPVGASFSF GGKLVTFESV AVPLQQGAEQ</p> <p>QRRQPVFISQ VVTEKDFLNR SAQLQHAVQS QGFIGYCQKK IEASQTEFEK NVWSFLKVN</p> <p>EEDSRGKYLE LLGYRKEDLG QKIALALNKV DGPDVALKDS DQVAQSDGEE SPAAEEQLLG</p> <p>ERIKEEKQEC DFLPSAGGTF NISVSGDIDG LITRALLTGN FESAVDLCLH DNRMAAAIL</p> <p>AIAGGQELLA QTQKKYFAKS QSKITRLITA VVMKNWREIV ESCDLKNWRE ALAAVLTYAK</p>

PDEFSALCDL LGTRLEREGD SLLRTQACLC YICAGNVERL VACWTKAQDG SSPLSLQDLI
EKVVILRKAV QLTQALDNT VGALLAEKMS QYASLLAAQG SIAAALFLP DNTNQPNIVQ
LRDRLCKAQG KPVSGQESSQ SPYERQPLSK GRPGPVAGHS QMPRVQTQQY YPHGENPPPP
GFIMQGNVIP NPAAPLPTAP GHMPSQLPPY PQPQPYQPAQ QYSFGTGGAA AYRPQQPVAP
PASNAYPNTP YISPVASYSG QPQMYTAQQA SSPTSSSAAS FPPSSGASF QHGGPGAPPS
SSAYALPPGT TGTPPAASEL PASQRTEQNS FQDQASILEG PQNGWNDPPA LNRVPKKKKM
PENFMPPVPI TSPIMNPSGD PQSQGLQQQP STPGPLSSHA SFPQQLHLAGG QPFHGVQQPL
AQTGMPPSFS KPNTEGAPGA PIGNTIQHVQ ALPTEKITKK PIPEEHLILK TTFEDLIQRC
LSSATDPQTK RKLDDASKRL EFLYDKLREQ TLSPTIINGL HSIARSIETR NYSEGLSVHT
HIVSTSNFSE TSAFMPVLKV VLSQASKLGV

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

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:	SEC31A
Alternative Name:	Sec31a (SEC31A Products)
Background:	Protein transport protein Sec31A (SEC31-like protein 1) (SEC31-related protein A),FUNCTION: Component of the coat protein complex II (COPII) which promotes the formation of transport vesicles from the endoplasmic reticulum (ER) (By similarity). 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:O94979, ECO:0000250 UniProtKB:Q9Z2Q1}.
Molecular Weight:	133.6 kDa
UniProt:	Q3UPL0
Pathways:	ER-Nucleus Signaling

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.
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

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

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. 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