

Datasheet for ABIN3095230

## SEC24D Protein (AA 1-1032) (Strep Tag)



[Go to Product page](#)

### Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 250 µg  |
| Target:                       | SEC24D  |
| Protein Characteristics:      | AA 1-1032                                       |
| Origin:                       | Human   |
| Source:                       | Cell-free protein synthesis (CFPS)              |
| Protein Type:                 | Recombinant                                     |
| Purification tag / Conjugate: | This SEC24D protein is labelled with Strep Tag. |
| Application:                  | Western Blotting (WB), ELISA, SDS-PAGE (SDS)    |

### Product Details

|           |   |
|-----------|---|
| Brand:    | AliCE®  |
| Sequence: | <p>MSQQGYVATP PYSQPQPGIG LSPPHYGHYG DPSHTASPTG MMKPAGPLGA TATRGMLPPG</p> <p>PPPPGPHQFG QNGAHATGHP PQRFPGPPPV NNVASSHAPY QPSAQSSYPG PISTSSVTQL</p> <p>GSQLSAMQIN SYGSGMAPPS QGPPGPLSAT SLQTPRPPQ PSILQPGSQV LPPPPTTLNG</p> <p>PGASPLPLPM YRPDGLSGPP PPNAQYQPPP LPGQTLGAGY PPQQANSQPQ MAGAQLSYPG</p> <p>GFPGGPAQMA GPPQPQKKLD PDSIPSPIQV IENDRASRGQ QVYATNTRGQ IPPLVTDDCM</p> <p>IQDQGNASPR FIRCTTYCFP CTSDMAKQAQ IPLAAVIKPF ATIPSNESPL YLVNHGESGP</p> <p>VRCNRCKAYM CPMQFIEGG RRYQCGFCNC VNDVPPFYFQ HLDHIGRRLD HYEKPELSLG</p> <p>SYEYVATLDY CRKSKPPNPP AFIFMIDVSY SNIKNGLVKL ICEELKTMLE KIPKEEQEET</p> <p>SAIRVGfITY NKVLHFFNVK SNLAQPQMMV VTDVGEVFVP LLDGFLVNYQ ESQSVIHLL</p> <p>DQIPDMFADS NENETVFAPV IQAGMEALKA ADCPGKLFIF HSSLPTAEAP GKLNRRDDKK</p> <p>LVNTDKEKIL FQPQTNVYDS LAKDCVAHGC SVTLFLFPSQ YVDVASLGLV PQLTGGTLYK</p> |

YNNFQMHLDR QQFLNDLRND IEKKIGFDAI MRVRTSTGFR ATDFFGGILM NNTTDVEMAA  
IDCDKAVTVE FKHDDKLSER SGALIQCAVL YTTISGQRRL RIHNLGLNCS SQLADLYKSC  
ETDALINFFA KSAFKAVLHQ PLKVIREILV NQTAHMLACY RKNCASPSAA SQLILPDSMK  
VLPVYMNCLL KNCVLLSRPE ISTDERAYQR QLVMTMGVAD SQLFFYPQLL PIHTLDVKST  
MLPAAVRCSE SRLSEEGIFL LANGLHMFLW LGVSSPPELI QGIFNVPSFA HINTDMTLLP  
EVGNPYSQQL RMIMGIIQK RPYSMKLTIV KQREQPEMVF RQFLVEDKGL YGGSSYVDFL  
CCVHKEICQL LN

**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!

#### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.

## Product Details

- 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: SEC24D

Alternative Name: SEC24D ([SEC24D Products](#))

Background: Protein transport protein Sec24D (SEC24-related protein D), FUNCTION: Component of the coat protein complex II (COPII) which promotes the formation of transport vesicles from the endoplasmic reticulum (ER). The coat has two main functions, the physical deformation of the endoplasmic reticulum membrane into vesicles and the selection of cargo molecules for their transport to the Golgi complex (PubMed:17499046, PubMed:20427317, PubMed:18843296). Plays a central role in cargo selection within the COPII complex and together with SEC24C may have a different specificity compared to SEC24A and SEC24B (PubMed:17499046, PubMed:20427317, PubMed:18843296). May more specifically package GPI-anchored proteins through the cargo receptor TMED10 (PubMed:20427317). May also be specific for IxM motif-containing cargos like the SNAREs GOSR2 and STX5 (PubMed:18843296). {ECO:0000269|PubMed:17499046, ECO:0000269|PubMed:18843296, ECO:0000269|PubMed:20427317}.

Molecular Weight: 113.0 kDa

UniProt: [O94855](#)

## 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

Application Details

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!

Restrictions: For Research Use only

Handling

|                  |  |
|------------------|--|
| Format:          | Liquid   |
| Buffer:          | The buffer composition is at the discretion of the manufacturer.<br>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  |