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Datasheet for ABIN3135757

**SNX6 Protein (AA 1-406) (Strep Tag)**

## Overview

Quantity:	1 mg
Target:	SNX6
Protein Characteristics:	AA 1-406
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SNX6 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Sequence: MMEGLDDGPD FLSEEDRGLK AINVDLQSDA ALQVDISDAL SERDRVKFTV HTKSSLPNFK  
QNEFSVVRQH EEFIWLHDSF VENEDYAGYI IPPAPPRPDF DASREKLQKL GEGEGSMTKE  
EFTKMKQELE AEYLAIFKKT VAMHEVFLCR VAAHPILRKD LNFHFVLEYN QDLSVRGKNK  
KEKLEDFFKN MVKSADGVIV SGVKDVDDFF EHERTFLELEY HNRVKDASAK SDRMTRSHKS  
AADDYNRIGS SLYALGTQDS TDICKFFLKV SELFDKTRKI EARVSADEDL KLSDLLKYLL  
RESQAAKDLL YRRSRSLVDY ENANKALDKA RAKNKDVLQA ETSQQLCCQK FEKISESAKQ  
ELIDFKTRRV AAFRKNLVEL AELELKHAKG NLQLLQNCLA VLNGDT

**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.

## Product Details

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- 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.

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Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

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Purity: > 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

## Target Details

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Target: SNX6

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Alternative Name: Snx6 ([SNX6 Products](#))

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Background: Sorting nexin-6 [Cleaved into: Sorting nexin-6, N-terminally processed],FUNCTION: Involved in

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## Target Details

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several stages of intracellular trafficking. Interacts with membranes phosphatidylinositol 3,4-bisphosphate and/or phosphatidylinositol 4,5-bisphosphate (Probable). Acts in part as component of the retromer membrane-deforming SNX-BAR subcomplex. The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-plasma membrane transport for cargo protein recycling. The SNX-BAR subcomplex functions to deform the donor membrane into a tubular profile called endosome-to-TGN transport carrier (ETC). Does not have in vitro vesicle-to-membrane remodeling activity (By similarity). Involved in retrograde endosome-to-TGN transport of lysosomal enzyme receptor IGF2R. May function as link between transport vesicles and dynactin. Negatively regulates retrograde transport of BACE1 from the cell surface to the trans-Golgi network. Involved in E-cadherin sorting and degradation, inhibits PIP5K1C-mediated E-cadherin degradation (By similarity). In association with GIT1 involved in EGFR degradation (PubMed:18523162). Promotes lysosomal degradation of CDKN1B (PubMed:20228253). May contribute to transcription regulation (By similarity). {ECO:0000250|UniProtKB:Q9UNH7, ECO:0000269|PubMed:18523162, ECO:0000269|PubMed:20228253}.

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Molecular Weight: 46.6 kDa

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UniProt: [Q6P8X1](#)

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Pathways: [EGFR Signaling Pathway](#)

## 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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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.

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!

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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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.**

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months