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Datasheet for ABIN3135366  
**SLC9A1 Protein (AA 1-820) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	SLC9A1
Protein Characteristics:	AA 1-820
Origin:	Mouse
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC9A1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Sequence: MMLRWSGVWG FHPPRIFPSL LVVVALVGLL PVLRSGLQH SPTASTIRGS EPPRERSIGD  
VTTAPSEPLH RPDDHNLNLTN IIEHGGKPSR KAFPVLIDIDY PHVRTPFIS LWILLACLMK  
IGFHVITIS SIVPESCLLI VVGLLVGGLI KGVGETPPFL QSDVFFLFL PPIILDAGYF LPLRQFTENL  
GTILIFAVVG TLWNAFFLGG LLYAVCLVGG EQINNIGLLD TLLFGSIISA VDPVAVLAVF  
EEIHINELLH ILVFGESLLN DAVTVVLYHL FEEFASYDSV GISDIFLGFL SFFVVALGGV  
FVGVVYGVIA AFTSRFTSHI RVIEPLFVFL YSYMAYLSAE LFHLSGIMAL IASGVVMRPY  
VEANISHKSH TTIKYFLKMW SSVSETLIFI FLGVSTVAGS HQWNWTFVIS TLLFCLARV  
LGVLVLTWFI NKFRIVKLTP KDQFIIAYGG LRGAIAFSLG YLLDKKHFFPM CDLFLTAIT  
VIFFTVFVQG MTIRPLVDLL AVKKKQETKR SINEEIHQTQF LDHLLTGIED ICGHYGHHHW  
KDKLNRFNKK YVKKCLIAE RSKEPQLIAF YHKMEMKQAI ELVESGGMGK IPSAVSTVSM  
QNIHPKAVTS DRILPASKD KEEIIRKILR SNLQKTRQRL RSYNRHTLVA DPYEEAWNQM  
LLRRQKARQL EQKITNYLTV PAHKLDSPTL SRARIGSDPL AYEPKADLPV ITIDPASPQS

PESVDLVNEE LKGKVLGLNR GPRVTPEEEE EDEDGIIMIR SKEPSSPGTD DVFTPGSSDS  
PSSQRIQRCL SDPGPHPEPG EGEPFIPKGQ

**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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is 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:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.</li><li>2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li></ol>
Purity:	≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

## Target Details

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Target:	SLC9A1
Alternative Name:	Slc9a1 ( <a href="#">SLC9A1 Products</a> )
Background:	<p>Sodium/hydrogen exchanger 1 (Na(+)/H(+) exchanger 1) (NHE-1) (Solute carrier family 9 member 1),FUNCTION: Electroneutral Na(+)/H(+) antiporter that extrudes Na(+) in exchange for external protons driven by the inward sodium ion chemical gradient, protecting cells from acidification that occurs from metabolism (By similarity). Exchanges intracellular H(+) ions for extracellular Na(+) in 1:1 stoichiometry (By similarity). Plays a key role in maintaining intracellular pH neutral and cell volume, and thus is important for cell growth, proliferation, migration and survival. In addition, can transport lithium Li(+) and functions also as a Na(+)/Li(+) antiporter. SLC9A1 also functions in membrane anchoring and organization of scaffolding complexes that coordinate signaling inputs (By similarity).</p> <p>{ECO:0000250 UniProtKB:P19634, ECO:0000250 UniProtKB:P26431}.</p>
Molecular Weight:	91.5 kDa
UniProt:	<a href="#">Q61165</a>
Pathways:	<a href="#">Glycosaminoglycan Metabolic Process</a> , <a href="#">Proton Transport</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:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

## 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!

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Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)