

Datasheet for ABIN3115249  
**SLC9A10 Protein (AA 1-1177) (Strep Tag)**



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1 Image

Overview

Quantity:	1 mg
Target:	SLC9A10 (SLC9C1)
Protein Characteristics:	AA 1-1177
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC9A10 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MAGIFKEFFF STEDLPEVIL TSLLISSIGA FLNRHLEDFP IPVPVILFLL GCSFEVLSFT  
 SSQVQRYANA IQWMSPDLFF RIFTPVVFFT TAFDMDTYML QKLFWQILLI SIPGFLVNYI  
 LVLWHLASVN QLLLKPTQWL LFSAILVSSD PMLTAAAIRD LGLSRSLISL INGESLMTSV  
 ISLITFTSIM DFDQRLQSKR NHTLAEIIVG GICSYIIASF LFGILSSKLI QFWMSTVFGD DVNHISLIFS  
 ILYLIFYICE LVGMSGIFTL AIVGLLLNST SFKAAIETL LLEFWTFLSR IAFLMVFTFF GLLIPAHTYL  
 YIEFVDIYYS LNIYLTIVL RFLTLLLISP VLSRVGHEFS WRWIFIMVCS EMKGMPNINM  
 ALLLAYSPLY FGSDKEKSQI LFHGVLVCLI TLVVNRFILP VAVTILGLRD ATSTKYKSVC  
 CTFQHFQELT KSAASALKFD KDLANADWNM IEKAITLENP YMLNEEETTE HQKVKCPHCN  
 KEIDEIFNTE AMELANRRLL SAQIASYQRQ YRNEILSQSA VQVLVGAES FGEKKGKCMS  
 LDTIKNYSES QKTVTFARKL LLNWVYNTK EKEGPSKYFF FRICHTIVFT EEFHVGYL  
 ILMNIFPFII SWISQLNVIY HSELKHTNYC FLTLYILEAL LKIAAMRKDF FSHAWNIFEL AITLIGILHV  
 ILIEIDTIKY IFNETEVIVF IKVVQFFRIL RIFKLIAPKL LQIIDKRMSH QKTFWYGILK GYVQGEADIM

TIIDQITSSK QIKQMLLKQV IRNMEHAKE LGYLEYDHPE IAVTVKTKEE INVMLNMATE  
ILKAFGLKGI ISKTEGAGIN KLIMAKKKEV LDSQSIIRPL TVEEVLYHIP WLDKNKDYIN FIQEKAKVVT  
FDCGNDIFEE GDEPKGIYII ISGMVKLEKS KPGLGIDQMV ESKEKDFPII DTDYMLSGEI  
IGEINCLTNE PMKYSATCKT VVETCFIPKT HLYDAFEQCS PLIKQKMWLK LGLAITARKI  
REHLSYEDWN YNMQKLKLSNI YVVDIPMSTK TDIYDENLIY VILIHGAVED CLLRKTYRAP  
FLIPITCHQI QSIEDFTKVV IIQTPINMKT FRRNIRKFVP KHKSYLTPGL IGSVGTLEEG IQEERNVKED  
GAHSAATARS PQPCSLLGTK FNCKESPRIN LRKVRKE

**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:

## Product Details

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- 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.

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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)
Grade:	Crystallography grade

## Target Details

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Target:	SLC9A10 (SLC9C1)
Alternative Name:	SLC9C1 ( <a href="#">SLC9C1 Products</a> )
Background:	Solute carrier family 9 member C1 (Na <sup>+</sup> )/H <sup>+</sup> exchanger 10) (NHE-10) (Sodium/hydrogen exchanger 10) (Solute carrier family 9 member 10) (Sperm-specific Na <sup>+</sup> )/H <sup>+</sup> exchanger (sNHE),FUNCTION: Sperm-specific solute carrier involved in intracellular pH regulation of spermatozoa. Required for sperm motility and fertility. Involved in sperm cell hyperactivation, a step needed for sperm motility which is essential late in the preparation of sperm for fertilization. Required for the expression and bicarbonate regulation of the soluble adenylyl cyclase (sAC) (By similarity). {ECO:0000250 UniProtKB:Q6UJY2}.
Molecular Weight:	135.2 kDa
UniProt:	<a href="#">Q4G0N8</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.
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## Application Details

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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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)

## Images

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process