

Datasheet for ABIN3133094

SLC4A3 Protein (AA 1-1227) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	SLC4A3
Protein Characteristics:	AA 1-1227
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC4A3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MANGVIPPPG GASPLPQVRV PLEEPPLGPD VEEEDDDLK TLA VSRFGDL ISKTPAWDPE</p> <p>KPSRSYSERD FEFHRHTSHH THHPLSARLP PPHKLRRPPP TSARHTRRKR KKEKTSAPPS</p> <p>EGTPPIQEEG GAGAE EEEEEEE EEEEEGESEA EPVEPLPPGP PQKAKFSIGS DEDDSPGLPV</p> <p>KAPCAKALPS VGLQSDQSPQ RSGSSPSRA RASRISTEKS RPWSPSASYD LRERLCPGSA</p> <p>LGNPGPEQRV PTDEAEAQML GSADLDDMK S HRLEDNPGVR RHLVKKPSRI QGGRGSPSGL</p> <p>APILRRKKKK KKLDRRPHEV FVELNELMLD RSQEPHWRET ARWIKFEEDV EEETERWGKP</p> <p>HVASLSFRSL LELRRRTIAQG AALLDLEQTT LPGIAHLVVE TMIVSDQIRP EDRASVLR TL</p> <p>LLKHSHPNDD KDSGFFPRNP SSSSVNSVLG NHHPTPSHGP DGAVPTMADD QGEPAPLWPH</p> <p>DPDAKEKPLH MPGGDGHRGK SLKLLEKIPE DAEATVVLVG CVPFLEQPA AFVRLSEAVL</p> <p>LESVLEVPVP VRFLFVMLGP SHTSTDYHEL GRSIATLMSD KLFHEAAYQA DDRQDLLGAI</p> <p>SEFLDGSIVI PPSEVEGRDL LRSVAAFQRE LLRKRREREQ TKVEMTTRGG YAAPGKELSL</p>

EMGGSEATSE DDPLQRTGSV FGGLVRDVKR RYPHYPSDLR DALHSQCVA VLFIFYFAALS
PAITFGGLLG EKTEGLMGVS ELIVSTAVLG VLFSLGAQP LLVVGFSGPL LVFEEAFFKF
CRAQDLEYLT GRVWVGLWLV VFVLALVAAE GSFLVRYISP FTQEIFAFLI SLIFIYETFH
KLYKVFTEHP LLPFYPPDEA LETGLELNSS ALPPTGPPG PRNQPN TALL SLILMLGTFL
IAFFLRKFRN SRFLGGKARR IIGDFGIPIS ILVMVLVDYS ITD TYTQKLT VPTGLSVTSP
HKRTWFIPPL GSARPFPPWM MVAAAVPALL VLILIFMETQ ITALIVSQKA RRLKSGSGFH
LDLLIGSLG GLCGLFGLPW LTAATVRSVT HVNALTVMRT AIAPGDKPQI QEVREQRVTG
VLIASLVGLS IVMGAVLRRI PLAVLFGIFL YMGVTSLSGI QLSQRLLLI MPAKHHPEQP
YVTKVKTWRM HLFTCIQLGC IALLWVVKST AASLAFPFL LLTVPLRRCL LPRLFQDREL
QALDSEDAEP NFDEGQDEY NELHMPV

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:	SLC4A3
Alternative Name:	Slc4a3 (SLC4A3 Products)
Background:	Anion exchange protein 3 (AE 3) (Anion exchanger 3) (Neuronal band 3-like protein) (Solute carrier family 4 member 3),FUNCTION: Sodium-independent anion exchanger which mediates the electroneutral exchange of chloride for bicarbonate ions across the cell membrane. May be involved in the regulation of intracellular pH , and the modulation of cardiac action potential (By similarity). {ECO:0000250 UniProtKB:P48751, ECO:0000269 PubMed:2686841}.
Molecular Weight:	135.4 kDa
UniProt:	P16283

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:	<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</p>

Application Details

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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