

Datasheet for ABIN3132958

SLC4A2 Protein (AA 1-1237) (Strep Tag)



[Go to Product page](#)

Overview

| | |
|-------------------------------|---|
| Quantity: | 250 µg |
| Target: | SLC4A2 |
| Protein Characteristics: | AA 1-1237 |
| Origin: | Mouse |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This SLC4A2 protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

| | |
|-----------|--|
| Brand: | AliCE® |
| Sequence: | <p>MSSAPRRPAS GADSLHTPEP ESLSPGTPGF PEQEEDELRT LGVERFEEIL QEAGSRGSEE</p> <p>PGRSYGEEDF EYHRQSSHHI HHPLSTHLPP DARRRKTQPG PGRKPRRRPG ASPTGETPTI</p> <p>EEGEEDEEEA SEAEGFRAPP QQPSPATTPS AVQFFLQEDE GAERKPERTS PSPPTQTPHQ</p> <p>EAAPRASKGA QTGTLVEEMV AVASATAGGD DGGAAAGRPLT KAQPGHRSYN LQERRRIGSM</p> <p>TGVEQALLPR VPTDESEAQT LATADLDLMK SHRFEDVPGV RRHLVRKNAK GSTQAAREGR</p> <p>EPGPTPRARP RAPHKPHEVF VELNELLLDK NQEPQWRETA RWIKFEEDVE EETERWGKPH</p> <p>VASLSFRSLL ELRRTL AHGA VLLDLDQQTL PGVAHQVVEQ MVISDQIKAE DRANVLRALL</p> <p>LKSHSPSDEK EFSFPRNISA GSLGSLLGHH HAQGTESDPH VTEPLIGGVP ETRLEVDRER</p> <p>ELPPPAPPAG ITRSKSKHEL KLEKIPENA EATVVLVGCV EFLSRPTMAF VRLREAVELD</p> <p>AVLEVPVPVR FLFLLLGPSS ANMDYHEIGR SISTLMSDKQ FHEAAYLADE RDDLLTAINA</p> <p>FLDCSVLPP SEVQGEELLR SVAHFQRQML KKREEQGRLL PPGAGLEPKS AQDKALLQMV</p> |

EVAGAAEDDP LRRTGRPFEGG LIRDVRRRYP HYLSDFRDAL DPQCLAAVIF IYFAALSPAI
TFGGLLGEKT KDLIGVSELI MSTALQGVVF CLLGAQPLL V IGFSGPLL V EEAFFSFCSS
NELEYLVGRV WIGFWLVFLA LLMVALEGSF LVRFVSRFTQ EIFAFSLISL FIYETFYKLI
KIFQEHLPHG CSGSNDSEAG SSSSSNMTWA TTILVPDNSS ASGQSGQKEP RGQPNTALLS
LVL MAGTFFI AFFLRKFKNS RFFPGRIRRV IGDFGVPIAI LIMVLVDYSI EDTYTQKLSV
PSGFSVTAPD KRGWVINPLG EKTPFPVWMM VASLLPAVLV FILIFMETQI TTLISKKER
MLQKGSGFHL DLLLIVAMGG ICALFGLPWL AAATVRSVTH ANALTVMSKA VAPGDKPKIQ
EVKEQRTVGL LVALLVGLSM VIGDLLRQIP LAVLFGIFLY MGVTSLNIGQ FYERLHLLLM
PPKHPDVTY VKKVRTMRMH LFTALQLLCL ALLWAVMSTA ASLAFPFILI LTVPLRMVVL
TRIFTEREMK CLDANEAEPV FDECEGVDEY NEMPMPV

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.
- 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: | SLC4A2 |
| Alternative Name: | Slc4a2 (SLC4A2 Products) |
| Background: | <p>Anion exchange protein 2 (AE 2) (Anion exchanger 2) (Band 3-related protein) (B3RP) (Non-erythroid band 3-like protein) (Solute carrier family 4 member 2),FUNCTION: Sodium-independent anion exchanger which mediates the electroneutral exchange of chloride for bicarbonate ions across the cell membrane (PubMed:2371270, PubMed:12958022, PubMed:18971331, PubMed:23341620, PubMed:24515893). Plays an important role in osteoclast differentiation and function (PubMed:18971331, PubMed:23341620). Regulates bone resorption and calpain-dependent actin cytoskeleton organization in osteoclasts via anion exchange-dependent control of pH (PubMed:23341620). Essential for intracellular pH regulation in CD8(+) T-cells upon CD3 stimulation, modulating CD8(+) T-cell responses (PubMed:24515893). {ECO:0000269 PubMed:12958022, ECO:0000269 PubMed:18971331, ECO:0000269 PubMed:23341620, ECO:0000269 PubMed:2371270, ECO:0000269 PubMed:24515893}., FUNCTION: [Isoform A]: Plays a critical role in male fertility and spermiogenesis. {ECO:0000269 PubMed:14673081}., FUNCTION: [Isoform B1]: Plays a critical role in male fertility and spermiogenesis. {ECO:0000269 PubMed:14673081}., FUNCTION: [Isoform B2]: Plays a critical role in male fertility and spermiogenesis. {ECO:0000269 PubMed:14673081}.</p> |
| Molecular Weight: | 136.8 kDa |
| UniProt: | P13808 |

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 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.
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