

Datasheet for ABIN3137499

SCNN1G Protein (AA 1-655) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	SCNN1G
Protein Characteristics:	AA 1-655
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SCNN1G protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MAPGEKIKAK IKKNLPVRGP QAPTIKDLMH WYCLNTNTHG CRRIVSRGR LRRLLWIAFT</p> <p>LTAVALIIWQ CALLVFSFYT VSVSIKVHFQ KLDFAVTIC NINPYKYS AV SDLLTDL DSE</p> <p>TKQALLSLYG VKDVL DSTPR KRREAGSMRS TWEGTPPRFL NLIPLLVFNE NEKGKARDFF</p> <p>TGRKRKISGK I IHKASNVMH VHESKKLVGF QLCSNDTSDC ATYTFSSGIN AIQEWYKLHY</p> <p>MNIM AQVPLE K KINMSYSAE ELLVTCFFDG MSCDARNFTL FHHPMYGNCY TFNNRENATI</p> <p>LSTSMGGSEY GLQVILYINE DEYNPFLVSS TGAKVLVHQQ NEYPFI EDVG TEIETAMSTS</p> <p>IGMHLTESFK LSEPYSQCTE DGSDVPVTNI YNAAYSLQIC LYSCFQTKMV EKC GCAQYSQ</p> <p>PLPPAANYCN YQQHPNWMYC YYQLYQAFVR EELGCQSVCK QSCSFKEWTL TTSLAQWPSE</p> <p>ASEKWLLNVL TWDQSQQINK KLNKTDLAKL LIFYKDLNQR SIMESPANSI EMLLSNFGGQ</p> <p>LGLWMSCSVV CVIEIIEVFF IDFFSIIARR QWQKAKDWWA RRRTPPSTET PSSQQGQDNP</p> <p>ALDTDDDLPT FTSAMRLPPA PEAPVPGTTP PRYNTLR LDS AFSSQLTDTQ LTNEF</p>

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).

Product Details

Grade: custom-made

Target Details

Target: SCNN1G

Alternative Name: Scnn1g ([SCNN1G Products](#))

Background: Amiloride-sensitive sodium channel subunit gamma (Epithelial Na⁺) channel subunit gamma) (Gamma-ENaC) (Gamma-NaCH) (Nonvoltage-gated sodium channel 1 subunit gamma) (SCNEG),FUNCTION: Sodium permeable non-voltage-sensitive ion channel inhibited by the diuretic amiloride. Mediates the electrodiffusion of the luminal sodium (and water, which follows osmotically) through the apical membrane of epithelial cells. Plays an essential role in electrolyte and blood pressure homeostasis, but also in airway surface liquid homeostasis, which is important for proper clearance of mucus. Controls the reabsorption of sodium in kidney, colon, lung and sweat glands. Also plays a role in taste perception.
{ECO:0000250|UniProtKB:P51170, ECO:0000269|PubMed:10409305}.

Molecular Weight: 74.6 kDa

UniProt: [Q9WU39](#)

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.

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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