Datasheet for ABIN3137422

CLCN2 Protein (AA 1-908) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	CLCN2
Protein Characteristics:	AA 1-908
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CLCN2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAAATAAAAA AAAAGEGMEP RALQYEQTLM YGRYTQELGA FAKEEAARIR LGGPEPWKGS PSARATPELL EYGQSRCARC RICSVRCHKF LVSRVGEDWI FLVLLGLLMA LVSWAMDYAI AVCLQAQQWM SRGLNTNILL QYLAWVTYPV VLITFSAGFT QILAPQAVGS GIPEMKTILR GVVLKEYLTL KTFVAKVIGL TCALGSGMPL GKEGPFVHIA SMCAALLSKF LSLFGGIYEH ESRNTEMLAA ACAVGVGCCF AAPIGGVLFS IEVTSTFFAV RNYWRGFFAA TFSAFIFRVL AVWNRDEETI TALFKTRFRL DFPFDLQELP AFAVIGIASG FGGALFVYLN RKIVQVMRKQ KTINRFLMRK RLLFPALVTL LISTLTFPPG FGQFMAGQLS QKETLVTLFD NRTWVRQGLV EDLELPSTSQ AWSPPRANVF LTLVIFILMK FWMSALATTI PVPCGAFMPV FVIGAAFGRL VGESMAAWFP DGIHTDSSTY RIVPGGYAVV GAAALAGAVT HTVSTAVIVF ELTGQIAHIL PVMIAVILAN AVAQSLQPSL YDSIIRIKKL PYLPELGWGR HQQYRVRVED IMVRDVPHVA LSCTFRDLRL ALHRTKGRML ALVESPESMI LLGSIERSQV VALLGAQLSP ARRRQHMQKL

RKAQLSPPSD QESPPSSETS IRFQVNTEDS GFSGAHGQTH KPLKPALKRG PSNSTSLQEG TTGNMESAGI ALRSLFCGSP PLEATSELEK SESCDKRKLK RVRISLASDS DPEAEMSPEE ILEWEEQQLD EPVNFSDCKI DPAPFQLVER TSLHKTHTIF SLLGVDHAYV TSIGRLIGIV TLKELRKAIE GSVTAQGVKV RPPLASFRDS ATSSSDTETT EVHALWGPRS RHGLPREGTP SDSDDKCQ

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.

Product Details

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:	CLCN2
Alternative Name:	Clcn2 (CLCN2 Products)
Background:	Chloride channel protein 2 (ClC-2),FUNCTION: Voltage-gated chloride channel. Chloride channels have several functions including the regulation of cell volume, membrane potential stabilization, signal transduction and transepithelial transport (By similarity). Involved in the regulation of aldosterone production. The opening of CLCN2 channels at hyperpolarized membrane potentials in the glomerulosa causes cell membrane depolarization, activation of voltage-gated Ca2+ channels and increased expression of aldosterone synthase, the rate-limiting enzyme for aldosterone biosynthesis (By similarity). {ECO:0000250|UniProtKB:P35525, ECO:0000250|UniProtKB:P51788}.
Molecular Weight:	99.4 kDa
UniProt:	Q9R0A1

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

Application Details

	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