

Datasheet for ABIN3113735 SLC11A2 Protein (AA 1-568) (Strep Tag)



Overview

Quantity:	250 µg
Target:	SLC11A2
Protein Characteristics:	AA 1-568
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC11A2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MVLGPEQKMS DDSVSGDHGE SASLGNINPA YSNPSLSQSP GDSEEYFATY FNEKISIPEE
	EYSCFSFRKL WAFTGPGFLM SIAYLDPGNI ESDLQSGAVA GFKLLWILLL ATLVGLLLQR
	LAARLGVVTG LHLAEVCHRQ YPKVPRVILW LMVELAIIGS DMQEVIGSAI AINLLSVGRI
	PLWGGVLITI ADTFVFLFLD KYGLRKLEAF FGFLITIMAL TFGYEYVTVK PSQSQVLKGM
	FVPSCSGCRT PQIEQAVGIV GAVIMPHNMY LHSALVKSRQ VNRNNKQEVR EANKYFFIES
	CIALFVSFII NVFVVSVFAE AFFGKTNEQV VEVCTNTSSP HAGLFPKDNS TLAVDIYKGG
	VVLGCYFGPA ALYIWAVGIL AAGQSSTMTG TYSGQFVMEG FLNLKWSRFA RVVLTRSIAI
	IPTLLVAVFQ DVEHLTGMND FLNVLQSLQL PFALIPILTF TSLRPVMSDF ANGLGWRIAG
	GILVLIICSI NMYFVVVYVR DLGHVALYVV AAVVSVAYLG FVFYLGWQCL IALGMSFLDC
	GHTCHLGLTA QPELYLLNTM DADSLVSR
	Sequence without tag. The proposed Strep-Tag is based on experience \ensuremath{s} with the expression

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	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:

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custom-made

Target Details	
Target:	SLC11A2
Alternative Name:	SLC11A2 (SLC11A2 Products)
Background:	Natural resistance-associated macrophage protein 2 (NRAMP 2) (Divalent cation transporter 1) (Divalent metal transporter 1) (DMT-1) (Solute carrier family 11 member 2),FUNCTION: Proton- coupled metal ion symporter operating with a proton to metal ion stoichiometry of 1:1 (PubMed:17109629, PubMed:22736759, PubMed:25491917, PubMed:17293870, PubMed:25326704). Selectively transports various divalent metal cations, in decreasing affinity: Cd(2+) > Fe(2+) > Co(2+), Mn(2+) >> Zn(2+), Ni(2+), VO(2+) (PubMed:17109629, PubMed:22736759, PubMed:25491917, PubMed:17293870, PubMed:25326704). Essential for maintenance of iron homeostasis by modulating intestinal absorption of dietary Fe(2+) and TF- associated endosomal Fe(2+) transport in erythroid precursors and other cells (By similarity). Enables Fe(2+) and Mn(2+) ion entry into mitochondria, and is thus expected to promote mitochondrial heme synthesis, iron-sulfur cluster biogenesis and antioxidant defense (PubMed:24448823) (By similarity). Can mediate uncoupled fluxes of either protons or metal ions. {ECO:0000250 UniProtKB:054902, ECO:0000250 UniProtKB:P49282,
	EC0:0000269 PubMed:17109629, EC0:0000269 PubMed:17293870,
	EC0:0000269 PubMed:22738759, EC0:0000269 PubMed:24448823, EC0:0000269 PubMed:25326704, EC0:0000269 PubMed:25491917}.
Molecular Weight:	62.3 kDa
UniProt:	P49281
Pathways:	Transition Metal Ion Homeostasis, Proton Transport, Positive Regulation of Endopeptidase Activity
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

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Application Details	
	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
Storago Commont:	
Storage Comment.	Store at -80°C.