

Datasheet for ABIN3112162 SLC3A2 Protein (AA 1-630) (Strep Tag)



Overview

Quantity:	250 µg
Target:	SLC3A2
Protein Characteristics:	AA 1-630
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC3A2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MELQPPEASI AVVSIPRQLP GSHSEAGVQG LSAGDDSELG SHCVAQTGLE LLASGDPLPS
	ASQNAEMIET GSDCVTQAGL QLLASSDPPA LASKNAEVTG TMSQDTEVDM KEVELNELEP
	EKQPMNAASG AAMSLAGAEK NGLVKIKVAE DEAEAAAAAK FTGLSKEELL KVAGSPGWVR
	TRWALLLLFW LGWLGMLAGA VVIIVRAPRC RELPAQKWWH TGALYRIGDL QAFQGHGAGN
	LAGLKGRLDY LSSLKVKGLV LGPIHKNQKD DVAQTDLLQI DPNFGSKEDF DSLLQSAKKK
	SIRVILDLTP NYRGENSWFS TQVDTVATKV KDALEFWLQA GVDGFQVRDI ENLKDASSFL
	AEWQNITKGF SEDRLLIAGT NSSDLQQILS LLESNKDLLL TSSYLSDSGS TGEHTKSLVT
	QYLNATGNRW CSWSLSQARL LTSFLPAQLL RLYQLMLFTL PGTPVFSYGD EIGLDAAALP
	GQPMEAPVML WDESSFPDIP GAVSANMTVK GQSEDPGSLL SLFRRLSDQR SKERSLLHGD
	FHAFSAGPGL FSYIRHWDQN ERFLVVLNFG DVGLSAGLQA SDLPASASLP AKADLLLSTQ
	PGREEGSPLE LERLKLEPHE GLLLRFPYAA

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/5 | Product datasheet for ABIN3112162 | 05/14/2025 | Copyright antibodies-online. All rights reserved. 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 posttranslational 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).

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Product Details

Grade:

custom-made

Target Details

Target:	SLC3A2
Alternative Name:	SLC3A2 (SLC3A2 Products)
Background:	Amino acid transporter heavy chain SLC3A2 (4F2 cell-surface antigen heavy chain) (4F2hc)
	(4F2 heavy chain antigen) (Lymphocyte activation antigen 4F2 large subunit) (Solute carrier
	family 3 member 2) (CD antigen CD98),FUNCTION: Acts as a chaperone that facilitates
	biogenesis and trafficking of functional transporters heterodimers to the plasma membrane.
	Forms heterodimer with SLC7 family transporters (SLC7A5, SLC7A6, SLC7A7, SLC7A8,
	SLC7A10 and SLC7A11), a group of amino-acid antiporters (PubMed:11557028,
	PubMed:9829974, PubMed:9751058, PubMed:9878049, PubMed:10574970,
	PubMed:10903140, PubMed:30867591, PubMed:33298890, PubMed:33758168,
	PubMed:34880232). Heterodimers function as amino acids exchangers, the specificity of the
	substrate depending on the SLC7A subunit. Heterodimers SLC3A2/SLC7A6 or SLC3A2/SLC7A
	mediate the uptake of dibasic amino acids (PubMed:9829974, PubMed:10903140).
	Heterodimer SLC3A2/SLC7A11 functions as an antiporter by mediating the exchange of
	extracellular anionic L-cystine and intracellular L-glutamate across the cellular plasma
	membrane (PubMed:34880232). SLC3A2/SLC7A10 translocates small neutral L- and D-amino
	acids across the plasma membrane (By similarity). SLC3A2/SLC75 or SLC3A2/SLC7A8
	translocates neutral amino acids with broad specificity, thyroid hormones and L-DOPA
	(PubMed:11557028, PubMed:10574970, PubMed:11389679, PubMed:11564694,
	PubMed:11742812, PubMed:12117417, PubMed:12225859, PubMed:15980244,
	PubMed:12716892, PubMed:33298890, PubMed:33758168, PubMed:30867591). SLC3A2 is
	essential for plasma membrane localization, stability, and the transport activity of SLC7A5 and
	SLC7A8 (PubMed:10391915, PubMed:10574970, PubMed:11311135, PubMed:15769744,
	PubMed:33066406). When associated with LAPTM4B, the heterodimer SLC7A5 is recruited to
	lysosomes to promote leucine uptake into these organelles, and thereby mediates mTORC1
	activation (PubMed:25998567). Modulates integrin-related signaling and is essential for
	integrin-dependent cell spreading, migration and tumor progression (PubMed:15625115,
	PubMed:11121428). {ECO:0000250 UniProtKB:P63115, ECO:0000269 PubMed:10391915,
	EC0:0000269 PubMed:10574970, EC0:0000269 PubMed:10903140,
	ECO:0000269 PubMed:11121428, ECO:0000269 PubMed:11311135,
	ECO:0000269 PubMed:11389679, ECO:0000269 PubMed:11557028,
	EC0:0000269 PubMed:11564694, EC0:0000269 PubMed:11742812,

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	EC0:0000269 PubMed:12117417, EC0:0000269 PubMed:12225859,
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	EC0:0000269 PubMed:15769744, EC0:0000269 PubMed:15980244,
	EC0:0000269 PubMed:25998567, EC0:0000269 PubMed:30867591,
	EC0:0000269 PubMed:33066406, EC0:0000269 PubMed:33298890,
	ECO:0000269 PubMed:33758168, ECO:0000269 PubMed:34880232,
	ECO:0000269 PubMed:9751058, ECO:0000269 PubMed:9829974,
	ECO:0000269 PubMed:9878049}., FUNCTION: (Microbial infection) In case of hepatitis C
	virus/HCV infection, the complex formed by SLC3A2 and SLC7A5/LAT1 plays a role in HCV
	propagation by facilitating viral entry into host cell and increasing L-leucine uptake-mediated
	mTORC1 signaling activation, thereby contributing to HCV-mediated pathogenesis.
	{ECO:0000269 PubMed:30341327}., FUNCTION: (Microbial infection) Acts as a receptor for
	malaria parasite Plasmodium vivax (Thai isolate) in immature red blood cells.
	{ECO:0000269 PubMed:34294905}.
Molecular Weight:	68.0 kDa
UniProt:	P08195
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!
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Restrictions:

For Research Use only

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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