

Datasheet for ABIN3136030

SLC20A2 Protein (AA 1-656) (Strep Tag)



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Quantity:	250 μg
Target:	SLC20A2
Protein Characteristics:	AA 1-656
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC20A2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Brand:	AliCE®
Sequence:	MAMDGYLWMV ILGFIIAFIL AFSVGANDVA NSFGTAVGSG VVTLRQACIL ASIFETTGSV
	LLGAKVGETI RKGIIDVNLY NETVETLMAG EVSAMVGSAV WQLIASFLRL PISGTHCIVG
	STIGFSLVAI GPKGVQWMEL VKIVASWFIS PLLSGFMSGV LFILIRMFIL TKEDPVPNGL
	QALPLFYAAT IAINVFSIMY TGAPVLGLSL PIWAIALISF GVALLFAFFV WLFVCPWMKR
	KIAGRLEKES ALSRASDESL RKVQEAESPG FKELPGAKPS DDSAVPLTSL AGEAVGASEG
	TSAGNHPRAS YGRALSMTHG SAKSPISNGT FGFEGHMRND GHVYHTVHKD SGLYKDLLHK
	IHVDRGSEEK PTQENNYRLL RRNNSYTCYT AAICGMPVHT TFRASDTSSA PEDSEKLVGD
	SVSYSKKRLR YDSYSSYCNA VAEAEIEAEE GGVEMRLASE LADPDRPHED PTEEEKEEKD
	SAEVHLLFHF LQVLTACFGS FAHGGNDVSN AIGPLVALWL IYQQGGVTQE AATPVWLLFY
	GGVGICTGLW VWGRRVIQTM GKDLTPITPS SGFTIELASA FTVVIASNIG LPVSTTHCKV
	GSVVAVGWIR SRKAVDWRLF RNIFVAWFVT VPVAGLFSAA IMALLMYICG LFSSSR

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).

Product Details Grade: custom-made **Target Details** Target: SLC20A2 Alternative Name Slc20a2 (SLC20A2 Products) Sodium-dependent phosphate transporter 2 (Phosphate transporter 2) (PiT-2) (Solute carrier Background: family 20 member 2) (Type III sodium-dependent phosphate transporter), FUNCTION: Sodiumphosphate symporter which preferentially transports the monovalent form of phosphate with a stoichiometry of two sodium ions per phosphate ion (PubMed:11003594, PubMed:23968976, PubMed:26822507, PubMed:30721528). Plays a critical role in the determination of bone quality and strength by providing phosphate for bone mineralization (PubMed:30721528). Required to maintain normal cerebrospinal fluid phosphate levels (PubMed:26822507). Mediates phosphate-induced calcification of vascular smooth muscle cells (VCMCs) and can functionally compensate for loss of SLC20A1 in VCMCs (PubMed:23968976). {ECO:0000269|PubMed:11003594, ECO:0000269|PubMed:23968976, ECO:0000269|PubMed:26822507, ECO:0000269|PubMed:30721528}. Molecular Weight: 70.9 kDa UniProt: **Q80UP8 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

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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Application Details

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