

Datasheet for ABIN3127406

## SLC22A7 Protein (AA 1-540) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	SLC22A7
Protein Characteristics:	AA 1-540
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC22A7 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MGFEELLHKV GGFQPFQLRN LVLLALPRFL LPMHFLLPIF MAAVPAHHCA LPDAPANLSH  QDLWLKTHLP RETDGSFSSC LRFAYPQALP NVTLGTEVYN SGEPEGEPLT VPCSQGWEYD  RSEFSSTIAT EWDLVCEQRG LNKVTSTCFF IGVLLGAVVY GYLSDRFGRR RLLLVAYVST  LALGLMSAAS VNYIMFVTTR MLTGSALAGF TIIVLPLELE WLDVEHRTVA GVISTTFWTG  GVLLTLVGY LIRSWRWLL AATLPCVPGI ISIWVWPESA RWLLTQGRVE EAKKYLSICA  KLNGRPISED SLSQEALNKV ITMERVSQRP SYLDLFRTSQ LRHVSLCCMM MWFGVNFESYY  GLTLDASGLG LTVYQTQLLF GAVEVPSKIT VFFLVRLVGR RLTEAGMLLA TALTFGISLL  VSSDTKSWIT ALVVIGKAFF EAAFTTAYLF TSELYPTVLR QTGMGFTALI GRLGASLAPL  VLLDGVWLL LPKLAYGGIS FLAACTVLLL PETKKAQLPE TIQDVERKGR KIDRSGTELA</p> <p><b>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</b></p>

### have a special request, please contact us.

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#### 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.

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#### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

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#### Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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#### Grade:

custom-made

## Target Details

Target:	SLC22A7
Alternative Name:	Slc22a7 ( <a href="#">SLC22A7 Products</a> )
Background:	<p>Solute carrier family 22 member 7 (Organic anion transporter 2) (mOAT2),FUNCTION: Functions as a Na(+)-independent bidirectional multispecific transporter (PubMed:12065749). Contributes to the renal and hepatic elimination of endogenous organic compounds from the systemic circulation into the urine and bile, respectively (PubMed:12065749). Capable of transporting a wide range of purine and pyrimidine nucleobases, nucleosides, and nucleotides with cGMP, 2'deoxyguanosine and GMP being the preferred substrates (By similarity). Functions as a pH - and chloride-independent cGMP bidirectional facilitative transporter that can regulate both intracellular and extracellular levels of cGMP and may be involved in cGMP signaling pathways (By similarity). Mediates orotate/glutamate bidirectional exchange and most likely display a physiological role in hepatic release of glutamate into the blood (By similarity). Involved in renal secretion and possible reabsorption of creatinine (By similarity). Able to uptake prostaglandin E2 (PGE2) and may contribute to PGE2 renal excretion (Probable). Also transports alpha-ketoglutarate and urate (PubMed:12065749). Unlike human hOAT2, able to transport glutarate (PubMed:12065749). Apart from the orotate/glutamate exchange, the counterions for the uptake of other SLC22A7/OAT2 substrates remain to be identified (By similarity). {ECO:0000250 UniProtKB:Q9Y694, ECO:0000269 PubMed:12065749, ECO:0000305 PubMed:12065749}.</p>
Molecular Weight:	59.6 kDa
UniProt:	<a href="#">Q91WU2</a>

## 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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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</p>

Application Details

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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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months