

## Datasheet for ABIN3127271 SLC44A4 Protein (AA 1-707) (Strep Tag)



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Quantity:	250 μg
Target:	SLC44A4
Protein Characteristics:	AA 1-707
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC44A4 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details			
Brand:	AliCE®		
Sequence:	MGRKQNENEA HGNSAKYDPS FRGPIKNRGC TDIICCVLFL IFILGYIIVG LVAWVYGDPR		
	QVLYPRNSTG AYCGVGDNKD KPYVLYFDIL SCAAAINIIS IAENGLQCPT PQVCVSSCPL		
	APWAVEVFQF SKTVGEVYGE RRNFCLPAVS PDMIVEESLQ KGLCPRFLLP STPALGRCFP		
	LPNINFTLPE DLRINNTTVS NGISGLLDSI NARDVSVKIF EDFAQSWYWI LVALGVALAL		
	SLLFILLLRL VAAPLVLLLI VGVLAVLAYG IYHCWQQYQV FRDKGASITQ LGFTTNFSAY		
	QSVKETWLAA LIVLAVLEGI LLLMLIFLRQ RIRIAIALLK EASRAVGQMM STMFYPLVTF		
	VLLVICIGYW AVTALYLATS GQPQYIYWAS NTSTPGCENV PVNMTCDPMA PLNSSCPNLK		
	CVFKGYSTTG LAQRSLFNLQ IYGVLGLFWT VNWVLALGQC VLAGAFASFY WAFHKPRDIP		
	TFPLSSAFIR TLRYHTGSLA FGALILSLVQ IARVILEYID HKLRGSQNPV ARCIICCFKC CLWCLEKFIK		
	FLNRNAYIMI AIYGKNFCVS AKNAFMLLMR NVLRVVVLDK VTDLLLFFGK LLVVGGVGVL		
	SFFFFSGRIK GLGKDFENPN LNYYWLPIMT SIMGAYVIAS GFFSVFGMCV DTLFLCFLED		

#### LERNDGSQER PYYMPKALLK ILGKKNEAPT GGKTRKK

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®).

# **Product Details** > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC). Purity: Grade: custom-made Target Details Target: SLC44A4 Slc44a4 (SLC44A4 Products) Alternative Name: Background: Choline transporter-like protein 4 (Solute carrier family 44 member 4) (Thiamine pyrophosphate transporter 1) (mTPPT1), FUNCTION: Choline transporter that plays a role in the cholineacetylcholine system and is required to the efferent innervation of hair cells in the olivocochlear bundle for the maintenance of physiological function of outer hair cells and the protection of hair cells from acoustic injury (By similarity). Also described as a thiamine pyrophosphate transporter in colon, may mediate the absorption of microbiota-generated thiamine pyrophosphate and contribute to host thiamine (vitamin B1) homeostasis (PubMed:24379411). {ECO:0000250|UniProtKB:Q53GD3, ECO:0000250|UniProtKB:Q7T2B0, ECO:0000269|PubMed:24379411}. Molecular Weight: 78.7 kDa UniProt: Q91VA1 **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

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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 <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