

Datasheet for ABIN3119542

SLC12A7 Protein (AA 1-1083) (Strep Tag)



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Quantity:	250 μg
Target:	SLC12A7
Protein Characteristics:	AA 1-1083
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC12A7 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

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Product Details			
Brand:	AliCE®		
Sequence:	MPTNFTVVPV EAHADGGGDE TAERTEAPGT PEGPEPERPS PGDGNPRENS PFLNNVEVEQ		
	ESFFEGKNMA LFEEEMDSNP MVSSLLNKLA NYTNLSQGVV EHEEDEESRR REAKAPRMGT		
	FIGVYLPCLQ NILGVILFLR LTWIVGVAGV LESFLIVAMC CTCTMLTAIS MSAIATNGVV		
	PAGGSYYMIS RSLGPEFGGA VGLCFYLGTT FAGAMYILGT IEIFLTYISP GAAIFQAEAA		
	GGEAAAMLHN MRVYGTCTLV LMALVVFVGV KYVNKLALVF LACVVLSILA IYAGVIKSAF		
	DPPDIPVCLL GNRTLSRRSF DACVKAYGIH NNSATSALWG LFCNGSQPSA ACDEYFIQNN		
	VTEIQGIPGA ASGVFLENLW STYAHAGAFV EKKGVPSVPV AEESRASALP YVLTDIAASF		
	TLLVGIYFPS VTGIMAGSNR SGDLKDAQKS IPTGTILAIV TTSFIYLSCI VLFGACIEGV		
	VLRDKFGEAL QGNLVIGMLA WPSPWVIVIG SFFSTCGAGL QSLTGAPRLL QAIARDGIVP		
	FLQVFGHGKA NGEPTWALLL TVLICETGIL IASLDSVAPI LSMFFLMCYL FVNLACAVQT		
	LLRTPNWRPR FKFYHWTLSF LGMSLCLALM FICSWYYALS AMLIAGCIYK YIEYRGAEKE		

WGDGIRGLSL NAARYALLRV EHGPPHTKNW RPQVLVMLNL DAEQAVKHPR LLSFTSQLKA
GKGLTIVGSV LEGTYLDKHM EAQRAEENIR SLMSTEKTKG FCQLVVSSSL RDGMSHLIQS
AGLGGLKHNT VLMAWPASWK QEDNPFSWKN FVDTVRDTTA AHQALLVAKN VDSFPQNQER
FGGGHIDVWW IVHDGGMLML LPFLLRQHKV WRKCRMRIFT VAQVDDNSIQ MKKDLQMFLY
HLRISAEVEV VEMVENDISA FTYERTLMME QRSQMLKQMQ LSKNEQEREA QLIHDRNTAS
HTAAAARTQA PPTPDKVQMT WTREKLIAEK YRSRDTSLSG FKDLFSMKPD QSNVRRMHTA
VKLNGVVLNK SQDAQLVLLN MPGPPKNRQG DENYMEFLEV LTEGLNRVLL VRGGGREVIT IYS

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). Grade: custom-made **Target Details** Target: SLC12A7 Alternative Name: SLC12A7 (SLC12A7 Products) Background: Solute carrier family 12 member 7 (Electroneutral potassium-chloride cotransporter 4) (K-Cl cotransporter 4),FUNCTION: Mediates electroneutral potassium-chloride cotransport when activated by cell swelling (PubMed:10913127). May mediate K(+) uptake into Deiters' cells in the cochlea and contribute to K(+) recycling in the inner ear. Important for the survival of cochlear outer and inner hair cells and the maintenance of the organ of Corti. May be required for basolateral CI(-) extrusion in the kidney and contribute to renal acidification (By similarity). {ECO:0000250, ECO:0000269|PubMed:10913127}. Molecular Weight: 119 1 kDa UniProt: Q9Y666 **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

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 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	