Datasheet for ABIN3132168

# SLC28A2 Protein (AA 1-660) (Strep Tag)

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## Overview

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| Quantity: | 250 µg |
| Target: | SLC28A2 |
| Protein Characteristics: | AA 1-660 |
| Origin: | Mouse |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This SLC28A2 protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

## Product Details

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| Brand: | AliCE® |
| Sequence: | MEKSKGRKSV SQATVENCME NPGLELMEGG NLEQRYTQEE VTQGHSLEDG LGHSSLWSRR IFQPFTKARS FFERHAGLFR KILLGLLCLA YAAYFLAACI LNFQRALALF VITCLVIFIL ACHFLKKFFP KEQLRCLKPL ENTHLNLWAK RVFVGLSVVG LILWLALDTA QRPEQLISFA GICMFILILF ACSKHHSAVC WRTVFWGLGL QFIFGILVIR TEPGFNAFQW LGDQIQIFLA YTVEGSSFVF GDTLVQNVFA FQSLPIIIFF GCVMSILYYL GLVQWVIQKV AWFLQITMGT TAAETLAVAG NIFVGMTEAP LLIRPYLADM TISEIHAVMT GGFATIAGTV LGAFISFGID ASSLISASVM AAPCALALSK LVYPEVEESK FKSKEGLKLP RGEERNILEA ASNGATDAIS LVANVAANLI AFLAVLAFIN ATLSWLGEMV DIHGLSFQVI CSYVLRPMVF MMGVQWADCP LVAEIVGVKF FINEFVAYQQ LSQYKNKRLS GVEEWINGEK QWISVKAEII TTFSLCGFAN LSSIGITLGG LTSMIPQRKS DLCKIVVRAL FTGACVSFIS ACMAGILYVP RGAETDCVSF LNTNFTNRTY ETYVCCRELF QSTSLNGTNM PSFSGPWQDN VSSLRNLASC CDLYTSTVCA |

## Product Details

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| | **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:<br>• Made in Germany - from design to production - by highly experienced protein experts.<br>• Protein expressed with ALiCE® and purified in one-step affinity chromatography<br>• These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br>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.<br><br>Expression System:<br>• 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.<br>• 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!<br><br>Concentration:<br>• The concentration of our recombinant proteins is measured using the absorbance at 280nm.<br>• The protein's absorbance will be measured against its specific reference buffer.<br>• 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

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| Grade: | custom-made |

## Target Details

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| Target: | SLC28A2 |
| Alternative Name: | Slc28a2 (SLC28A2 Products) |
| Background: | Sodium/nucleoside cotransporter 2 (Concentrative nucleoside transporter 2) (CNT 2) (Na(+)/nucleoside cotransporter 2) (Sodium-coupled nucleoside transporter 2) (Sodium/purine nucleoside cotransporter) (SPNT) (Solute carrier family 28 member 2),FUNCTION: Sodium-dependent and purine-selective transporter. Exhibits the transport characteristics of the nucleoside transport system cif or N1 subtype (N1/cif) (selective for purine nucleosides and uridine). Plays a critical role in specific uptake and salvage of purine nucleosides in kidney and other tissues. May contribute to regulate the transport of organic compounds in testes across the blood-testis-barrier (By similarity). {ECO:0000250\|UniProtKB:O43868}. |
| Molecular Weight: | 72.9 kDa |
| UniProt: | O88627 |

## Application Details

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| 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.<br>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! |
| Restrictions: | For Research Use only |

 

## Handling

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer.<br>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 |