

Datasheet for ABIN7545881  
**SLC41A1 Protein (AA 1-513) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SLC41A1
Protein Characteristics:	AA 1-513
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC41A1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat SLC41A1 Protein expressed in mammalien cells.
Sequence:	MSSKPEPKDV HQLNGTGPSA SPCSSDGPGR EPLAGTSEFL GPDGAGVEVW IESRANAKGV REEDALLENG SQSNESDDVS TDRGPAPPSP LKETSFSIGL QVLFPELLAG FGTVAAGMVL DIVQHWEVFQ KVTEVFILVP ALLGLKGNLE MTLASRLSTA ANIGHMDTPK ELWRMITGNM ALIQVQATVV GFLASIAAVV FGWIPDGHFS IPHAFLLCAS SVATAFIASL VLG MIMIGVI IGSRKIGINP DNVATPIAAS LGDLITLALL SGISWGLYLE LNHWRYYIPL VCAFFVALLP VVVVLARRSP ATREVLVSGW EPVIIAMAI SVGGILDKT VSDPNFAGMA VFTPVINGVG GNLVAVQASR ISTFLHMNGM PGENSEQAPR RCPSPCTFF SPDVNSRSAR VLFLVVP GH LVFLYTISCM QGGHTTLTLI FIFYMTAAL LQVLILLYIA DWMVHMMWGR GLDPDNFSIP YLTALGDLLG TGLLALS FHV LWLIGDRDTD VGD <b>Sequence without tag. The proposed Purification-Tag is based on experiences 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.</b>

## Product Details

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

## Target Details

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### Target:

SLC41A1

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### Alternative Name:

SLC41A1 ([SLC41A1 Products](#))

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### Background:

Solute carrier family 41 member 1,FUNCTION: Na(+)/Mg(2+) ion exchanger that acts as a predominant Mg(2+) efflux system at the plasma membrane (PubMed:22031603, PubMed:23661805, PubMed:18367447, PubMed:23976986). Transporter activity is driven by the inwardly directed electrochemical gradient for Na(+) ions, thus directly depends on the extracellular Na(+) ion concentration set by Na(+)/K(+) pump (PubMed:22031603, PubMed:23661805). Generates circadian cellular Mg(2+) fluxes that feed back to regulate clock-controlled gene expression and metabolism and facilitate higher energetic demands during the day (PubMed:27074515). Has a role in regulating the activity of ATP-dependent enzymes, including those operating in Krebs cycle and the electron transport chain (By similarity). {ECO:0000250|UniProtKB:Q8BJA2, ECO:0000269|PubMed:18367447, ECO:0000269|PubMed:22031603, ECO:0000269|PubMed:23661805, ECO:0000269|PubMed:23976986, ECO:0000269|PubMed:27074515}.

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### Molecular Weight:

54.9 kDa

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## Target Details

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UniProt: [Q8IVJ1](#)

## 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.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months