

Datasheet for ABIN7555342

## SLC15A2 Protein (AA 1-729) (His tag)



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### Overview

Quantity:	1 mg
Target:	SLC15A2
Protein Characteristics:	AA 1-729
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC15A2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Purpose:	Custom-made recombinat SLC15A2 Protein expressed in mammalian cells.
Sequence:	<p>MNPFQKNESK ETLFSPVSIE EVPPRPPSP KPSPTICGS NYPLSIAFIV VNEFCERFSY</p> <p>YGMKAVLILY FLYFLHWNE TSTSIYHAFS SLCYFTPILG AAIADSWLGK FKTIYLSLV</p> <p>YVLGHVIKSL GALPILGGQV VHTVLSLIGL SLIALGTGGI KPCVAAFAGGD QFEKHAEEER</p> <p>TRYFSVFYLS INAGSLISTF ITPMLRGDVQ CFGEDCYALA FGVPGLLMVI ALVVFAMGSK</p> <p>IYNKPPPEGN IVAQVFKCIW FAISNRFKNR SGDIPKRQHW LDWAAEKYPK QLIMDVKALT</p> <p>RVLFLYIPLP MFWALLDQQG SRWTLQAIMR NRNLGFFVLQ PDQMQLNPL LVLIFLPLFD</p> <p>FVIYRLVSKC GINFSSLRKM AVGMILACLA FAVAAAVEIK INEMAPAQPG PQEVFLQVLN</p> <p>LADDEVKVT VGNENNSLLI ESIKSFQKTP HYSKLHLKTK SQDFHFHLKY HNLSLYTEHS</p> <p>VQEKNWYSLV IREDGNSISS MMVKDTESTR TNGMTTVRFV NTLHKDVNIS LSTDTSLNVG</p> <p>EDYGVSAYRT VQRGEYPAVH CRTEDKNFSL NLGLLDFGAA YLFVITNNTN QGLQAWKIED</p> <p>IPANKMSIAW QLPQYALVTA GEVMFSVTGL EFSYSQAPSS MKSVLQAAWL LTIAGVNIIV</p>

## Product Details

LVVAQFSGSLV QWAEFILFSC LLLVICLIFS IMGYYYVPVK TEDMRGPADK HIPHIQGNMI

KLETKKTKL **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.**

### 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.

### Purity:

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

### Grade:

custom-made

## Target Details

### Target:

SLC15A2

### Alternative Name:

SLC15A2 ([SLC15A2 Products](#))

### Background:

Solute carrier family 15 member 2 (Kidney H(+)/peptide cotransporter) (Oligopeptide transporter, kidney isoform) (Peptide transporter 2), FUNCTION: Proton-coupled amino-acid transporter that transports oligopeptides of 2 to 4 amino acids with a preference for dipeptides (PubMed:7756356, PubMed:18367661, PubMed:16434549). Transports neutral and anionic dipeptides with a proton to peptide stoichiometry of 2:1 or 3:1 (By similarity). In kidney, involved in the absorption of circulating di- and tripeptides from the glomerular filtrate (PubMed:7756356). Can also transport beta-lactam antibiotics, such as the aminocephalosporin cefadroxil, and other antiviral and anticancer drugs (PubMed:16434549). Transports the dipeptide-like aminopeptidase inhibitor bestatin (By similarity). Also able to

## Target Details

transport carnosine (PubMed:31073693). Involved in innate immunity by promoting the detection of microbial pathogens by NOD-like receptors (NLRs) (By similarity). Mediates transport of bacterial peptidoglycans across the plasma membrane or, in macrophages, the phagosome membrane: catalyzes the transport of certain bacterial peptidoglycans, such as muramyl dipeptide (MDP), the NOD2 ligand (PubMed:20406817).  
{ECO:0000250|UniProtKB:P46029, ECO:0000250|UniProtKB:Q63424, ECO:0000250|UniProtKB:Q9ES07, ECO:0000269|PubMed:16434549, ECO:0000269|PubMed:18367661, ECO:0000269|PubMed:20406817, ECO:0000269|PubMed:31073693, ECO:0000269|PubMed:7756356}.

Molecular Weight: 81.8 kDa

UniProt: [Q16348](#)

## 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.

Restrictions: For Research Use only

## Handling

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