

Datasheet for ABIN7555340

**SLC12A1 Protein (AA 1-1099) (His tag)**[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	SLC12A1
Protein Characteristics:	AA 1-1099
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC12A1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant SLC12A1 Protein expressed in mammalian cells.
Sequence:	<p>MSLNNSSNVF LDSVPSNTNR FQVSVINENH ESSAAADDNT DPPHYEETSF GDEAQKRLRI SFRPGNQECY DNFLQSGETA KTDASFHAYD SHTNTYYLQT FGHNTMDAVP KIEYYRNTGS ISGPKVNRPS LLEIHEQLAK NVAVTPSSAD RVANGDGIPG DEQAENKEDD QAGVVKFGWW KGVLVRCMLN IWGVMLFIRL SWIVGEAGIG LGVLIILLST MVTSITGLST SAIATNGFVR GGGAYYLISR SLGPEFGGSI GLIFAFANAV AVAMYVVGFA ETVDLLKES DSMMDPTND IRIIGSITVV ILLGISVAGM EWEAKAQVIL LVILLIAIAN FFIGTVIPSN NEKKSRRGFN YQASIFAENF GPRFTKGEFG FSVFAIFFPA ATGILAGANI SGDLEDPQDA IPRGTMLAIF ITTVAYLGVA ICVGACVVRD ATGNMNDTII SGMNCNGSAA CGLGYDFSRC RHEPCQYGLM NNFQVMSMVS GFGPLITAGI FSATLSSALA SLVSAPKVFQ ALCKDNIIKA LQFFAKGYGK NNEPLRGYIL TFLIAMAFIL IAEIINTIPI ISNFFLASA LINFSCFHAS YAKSPGWRPA YGIYNMWVSL FGAVLCCAAM FVINWWAAVI TYVIEFFLYV YVTCKKPDVN WGSSTQALS YVSALDNALEL TTVEDHVKNF RPQCIVLTGG PMTRPALLDI THAFTKNSGL CICCEVFVGP RKLCKVKEMNS</p>

## Product Details

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GMAKKQAWLI KNKIKAFYAA VAADCFRDGV RSLQASGLG RMKPNTLVIG YKKNWRKAPL  
TEIENYVGII HDAFD FEIGV VIVRISQGF D ISQVLQVQEE LERLEQERLA LEATIKDNEC EEESGGIRGL  
FKKAGKLNIT KTTTPKKD GSI NTSQSMHVGE FNQKLVEAST QFKKKQEKGT IDVWWLFD D G  
GLTLLIPYIL TLRKKWKDCK LRIYVGGKIN RIEEEKIVMA SLLSKFRIKF ADIHIIGDIN IRPNKESWKV  
FEEMIEPYRL HESCKDLTTA EKLKRETPWK ITDAELEAVK EKSQRVRLN ELLQEHSRAA  
NLIVLSLPVA RKGSISDLLY MAWLEILTKN LPPVLLVRGN HKNVLT FYS **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.**

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Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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Grade: custom-made

## Target Details

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Target: SLC12A1

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Alternative Name: SLC12A1 ([SLC12A1 Products](#))

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Background: Solute carrier family 12 member 1 (Bumetanide-sensitive sodium-(potassium)-chloride cotransporter 2) (Kidney-specific Na-K-Cl symporter),FUNCTION: Renal sodium, potassium and

## Target Details

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chloride ion cotransporter that mediates the transepithelial NaCl reabsorption in the thick ascending limb and plays an essential role in the urinary concentration and volume regulation (PubMed:21321328). Electrically silent transporter system (By similarity).

{ECO:0000250|UniProtKB:P55014, ECO:0000250|UniProtKB:P55016, ECO:0000269|PubMed:21321328}.

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Molecular Weight: 121.5 kDa

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UniProt: [Q13621](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months