

Datasheet for ABIN7560059  
**SLC22A7 Protein (AA 1-540) (His tag)**



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## Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 1 mg   |
| Target:                       | SLC22A7  |
| Protein Characteristics:      | AA 1-540                                       |
| Origin:                       | Mouse  |
| Source:                       | HEK-293 Cells                                  |
| Protein Type:                 | Recombinant                                    |
| Purification tag / Conjugate: | This SLC22A7 protein is labelled with His tag. |

## Product Details

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|-----------|--|
| Purpose:  | Custom-made recombinant Slc22a7 Protein expressed in mammalian cells.  |
| Sequence: | <p>MGFEELLHKV GGFGPFQLRN LVLLALPRFL LPMHFLLPIF MAAVPAHHCA LPDAPANLSH<br/>QDLWLKTHLP RETDGSFSSC LRFAYPQALP NVTLGTEVYN SGEPEGEPLT VPCSQGW EYD<br/>RSEFSSTIAT EWDLVCEQRG LNKVTSTCFF IGVLLGAVVY GYLSDRFGRR RLLLVAYVST<br/>LALGLMSAAS VNYIMFVTTR MLTGSALAGF TIIVLPLELE WLDVEHRTVA GVISTTFWTG<br/>GVLLLLTLVGY LIRSWRWLLL AATLPCVPGI ISIWVWPESA RWLLTQGRVE EAKKYSICA<br/>KLNGRPISED SLSQEALNKV ITMERVSQRP SYLDLFRTSQ LRHVSLCCMM MWFVGNFSYY<br/>GLTLDASGLG LTVYQTQLLF GAVEVPSKIT VFFLVRLVGR RLTEAGMLLA TALTFGISLL<br/>VSSDTKSWIT ALVVIGKAFS EAAFTTAYLF TSELYPTVLR QTGMGFTALI GRLGASLAPL<br/>VLLDGVWLL LPKLAYGGIS FLAACTVLLL PETKKAQLPE TIQDVERKGR KIDRSGTELA <b>Sequence<br/>without tag. The proposed Purification-Tag is based on experiences with the expression<br/>system, a different complexity of the protein could make another tag necessary. In case you<br/>have a special request, please contact us.</b></p> |

## Product Details

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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

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## Target Details

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**Target:** SLC22A7

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**Alternative Name:** Slc22a7 ([SLC22A7 Products](#))

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**Background:** Solute carrier family 22 member 7 (Organic anion transporter 2) (mOAT2),FUNCTION: Functions as a Na(+)-independent bidirectional multispecific transporter (PubMed:12065749). Contributes to the renal and hepatic elimination of endogenous organic compounds from the systemic circulation into the urine and bile, respectively (PubMed:12065749). Capable of transporting a wide range of purine and pyrimidine nucleobases, nucleosides, and nucleotides with cGMP, 2'deoxyguanosine and GMP being the preferred substrates (By similarity). Functions as a pH- and chloride-independent cGMP bidirectional facilitative transporter that can regulate both intracellular and extracellular levels of cGMP and may be involved in cGMP signaling pathways (By similarity). Mediates orotate/glutamate bidirectional exchange and most likely display a physiological role in hepatic release of glutamate into the blood (By similarity). Involved in renal secretion and possible reabsorption of creatinine (By similarity).

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## Target Details

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Able to uptake prostaglandin E2 (PGE2) and may contribute to PGE2 renal excretion (Probable). Also transports alpha-ketoglutarate and urate (PubMed:12065749). Unlike human hortolog, able to transport glutarate (PubMed:12065749). Apart from the orotate/glutamate exchange, the counterions for the uptake of other SLC22A7/OAT2 substrates remain to be identified (By similarity). {ECO:0000250|UniProtKB:Q9Y694, ECO:0000269|PubMed:12065749, ECO:0000305|PubMed:12065749}.

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Molecular Weight: 59.6 kDa

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UniProt: [Q91WU2](#)

## 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