

# Product Information

## MemDX™ Membrane Protein Human SLC22A1 (Solute carrier family 22 member 1) Full

### Length

Cat. No.: **MPC0766K**

This product is for research use only and is not intended for diagnostic use.

This product is a 61.1 kDa Human SLC22A1 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

SLC22A1

#### Protein Length

Full length

#### Protein Class

Transporter

#### Molecular Weight

61.1 kDa

#### TMD

12

#### Sequence

MPTVDDILEQVGESGWFFQKQAFLLCLLSAAFAPICVGIVFLGFTPDHHC  
QSPGVAELSQRRCGWSPAEEELNYTVPLGPGAGEAFLGQCRRYEVDWNQSAL  
SCVDPLASLATNRSHLPLGPCQDGVVYDTPGSSIVTEFNLVCADSWKLDL  
FQSCNLNAGFLFGSLGVGYFADRFRGRKLCLLGTVLVNAVSGVLMFAFSPNYM  
SMLLFRLLQGLVSKGNWMAGYTLITEFVSGSGSRRTVAIMYQMAFTVGLVA  
LTGLAYALPHWRWLQLAVSLPTFLFLYYWCVPESPRWLLSQKRNTAIAK  
IMDHIAQKNGKLPPADLKMLSLEEDVTEKLSPSFADLFRTPRLRKRTFIL  
MYLWFTDSVLYQGLILHMGATSGNLYLDFLYSALVEIPGAFIALITIDRV  
GRIYPMAMSNLLAGAACLVMIISPDLHWNIIIMCVGRMGITIAIQMIC  
LVNAELYPTFVRNLGVMVCSSLCDIGGIITPFIVFRLREVWQALPLILFA  
VLGLLAAGVTLLLPETKGVLPETMKDAENLGRKAKPKENTIYLVKVTSE  
PSGT

### Product Description

#### Expression Systems

HEK293

### Tag

Based on specific requirements

### Protein Format

Detergent or based on specific requirements

### Form

Liquid

### Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

## Target

### Target Protein

SLC22A1

### Full Name

Solute carrier family 22 member 1

### Introduction

Polyspecific organic cation transporters in the liver, kidney, intestine, and other organs are critical for elimination of many endogenous small organic cations as well as a wide array of drugs and environmental toxins. This gene is one of three similar cation transporter genes located in a cluster on chromosome 6. The encoded protein contains twelve putative transmembrane domains and is a plasma integral membrane protein. Two transcript variants encoding two different isoforms have been found for this gene, but only the longer variant encodes a functional transporter.

### Alternative Names

OCT1; HOCT1; oct1\_cds; solute carrier family 22 member 1; organic cation transporter 1; solute carrier family 22 (organic cation transporter), member 1; SLC22A1; Solute carrier family 22 member 1

### Gene ID

[6580](#)

### UniProt ID

[O15245](#)