

## Product Information

### MemDX™ Membrane Protein Human SLC16A2 (Solute carrier family 16 member 2) Full

#### Length

Cat. No.: **MPC0745K**

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

This product is a 59.5 kDa Human SLC16A2 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

SLC16A2

##### Protein Length

Full length

##### Protein Class

Transporter

##### Molecular Weight

59.5 kDa

##### TMD

12

##### Sequence

MALQSQASEEAKGPWQEADQEQQEPVGSPEPESEPEPEPEPEPVVPPPE  
PQPEPQPLPDPAPLPELEFESERVHEPEPTPTVETRGTARGFQPPEGGFG  
WVVVFAATWCNGSIFGIHNSVGILYSMLLEEEKEKNRQVEFQAAWVGALA  
MGMIFFCSPIVSIFTDRLGCRITATAGA AVAFIGLHTSSFTSSLSLRYFT  
YGILFGCGCSFAFQPSLVILGHYFQRRLGLANGVVSAGSSIFSMSFPFLI  
RMLGDKIKLAQTFQVLSTFMFVLMLLSLTYRPLLSSQDTPSKRGVRTLH  
QRFLAQLRKYFNMRVFRQRITYRIWAFGIAAAALGYFVPYVHLMKYVEEEF  
SEIKETWLLVCIGATSGLGRLVSGHISDSIPGLKKIYLQVLSFLLLGLM  
SMMIPLCRDFGGLIVVCLFLGLCDGFFITIMAPIAFELVGPMQASQAIGY  
LLGMMALPMIAGPPIAGLLRNCFGDYHVAFYFAGVPPPIIGAVILFFVPLM  
HQRMFKKEQRDSSKDKMLAPDPDPNGELLPGSPNPEEPI

#### 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 -70°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

SLC16A2

**Full Name**

Solute carrier family 16 member 2

**Introduction**

This gene encodes an integral membrane protein that functions as a transporter of thyroid hormone. The encoded protein facilitates the cellular importation of thyroxine (T4), triiodothyronine (T3), reverse triiodothyronine (rT3) and diiodothyronine (T2). This gene is expressed in many tissues and likely plays an important role in the development of the central nervous system. Loss of function mutations in this gene are associated with psychomotor retardation in males while females exhibit no neurological defects and more moderate thyroid-deficient phenotypes. This gene is subject to X-chromosome inactivation. Mutations in this gene are the cause of Allan-Herndon-Dudley syndrome.

**Alternative Names**

AHDS; MCT7; MCT8; XPCT; MCT 7; MCT 8; MRX22; DXS128; DXS128E; monocarboxylate transporter 8; X-linked PEST-containing transporter; monocarboxylate transporter 7; solute carrier family 16, member 2 (thyroid hormone transporter); SLC16A2; Solute carrier family 16 member 2

**Gene ID**

[6567](#)

**UniProt ID**

[P36021](#)