

## Product Information

### MemDX™ Membrane Protein Human ABCG8 (ATP binding cassette subfamily G member 8)

#### Full Length

Cat. No.: **MPC0379K**

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

This product is a 75.6 kDa Human ABCG8 membrane protein expressed in *Komagataella pastoris*. 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

ABCG8

##### Protein Length

Full length

##### Protein Class

Transporter

##### Molecular Weight

75.6 kDa

##### TMD

6

##### Sequence

MAGKAAEERGLPKGATPQDTSGLQDRLFSSESDNSLYFTYSGQPNTLEVR  
DLNYQVDLASQVPWFQLAQFKMPWTSPSCQNSCELGIQNLASFVKVRSGQM  
LAIIGSSGCGRASLLDVITGRGHGGKIKSGQIWINQPSSPQLVRKCAH  
VRQHNQLLPNLTVRETLAFIAQMRLPRTFSQAQRDKRVEDVIAELRLRQC  
ADTRVGNMYVRGLSGGERRRVSIGVQLLWNPGILILDEPTSGLDSFTAHN  
LVKTLSRALAKGNRLVLISLHQPRSDIFRLFDLVLLMTSGTPYLGAAQHM  
VQYFTAIGYPCPRYSNPADFYVDLTSIDRRSREQELATREKAQSLAALFL  
EKVRDLDLFLWKAETKLDDETCVESSVTPLDTNCLPSPTKMPGAVQQFT  
TLIRRQISNDFRDLPTLLIHGAEACLMSMTIGFLYFGHGSIQLSFMDTAA  
LLFMIGALIPFNVIDVISKCYSERAMLYYELEDGLYTTGPYFFAKILGE  
LPEHCAYIIYGMPTYWLANLRPGLQPFLHHFLLVWLVVFCRIMALAAA  
ALLPTFHMASFFSNALYSFYLAGGFMINLSSLWTVPAWISKVSFLRWCF  
EGLMKIQFSRRTYKMPGNLTIAVSGDKILSVMELDSYPLYAIYLIVIGL  
SGGFMVLYYVSLRFIKQKPSQDW

#### Product Description

**Expression Systems**

*Komagataella pastoris*

**Tag**

12xHis tag at C-terminal

**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**

ABCG8

**Full Name**

ATP binding cassette subfamily G member 8

**Introduction**

The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the White subfamily. The protein encoded by this gene functions to exclude non-cholesterol sterol entry at the intestinal level, promote excretion of cholesterol and sterols into bile, and to facilitate transport of sterols back into the intestinal lumen. It is expressed in a tissue-specific manner in the liver, intestine, and gallbladder. This gene is tandemly arrayed on chromosome 2, in a head-to-head orientation with family member ABCG5. Mutations in this gene may contribute to sterol accumulation and atherosclerosis, and have been observed in patients with sitosterolemia.

**Alternative Names**

GBD4; STSL; STSL1; ATP-binding cassette sub-family G member 8; ATP-binding cassette, sub-family G (WHITE), member 8; sterolin 2; ABCG8; ATP binding cassette subfamily G member 8

**Gene ID**

[64241](#)

**UniProt ID**

[Q9H221](#)