

Product Information

MemDX™ Membrane Protein Human ABCG5 (ATP binding cassette subfamily G member 5)

Full Length

Cat. No.: **MPC0378K**

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

This product is a 72.5 kDa Human ABCG5 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

ABCG5

Protein Length

Full length

Protein Class

Transporter

Molecular Weight

72.5 kDa

TMD

6

Sequence

MGDLSSLTPGGSMGLQVNRGSQSSLEGAPATAPEPHSLGILHASYSVSHR
VRPWWDITSCRQQWTRQILKDVSLYVESGQIMCILGSSGSGKTTLLDAMS
GRLGRAGTFLGEVYVNGRALRREQFQDCFSYVLQSDTLLSSLTVRETLHY
TALLAIRRGNPGSFQKKVEAVMAELSLSHVADRLIGNYSLGGISTGERRR
VSIAAQLLQDPKVMFLFDEPTTGLDCMTANQIVVLLVELARRNRIVLTIH
QPRSELFQLFDKIAILSFGELIFCGTPAEMLDFFNDCGYPCPEHSNPFDF
YMDLTSVDTQSKEREIETSKRVQMIESAYKKSACHKTLKNIERMKHLKT
LPMVPFKTKDSPGVFSKLGVLRRVTRNLVRNKLAVITRLLQNLIMGLFL
LFFVLRVRSNVLKGAIQDRVGLLYQFVGATPYTGMLNAVNLFVLRVAVSD
QESQDGLYQKWQMMLAYALHVLFPFSVVATMIFSSVCYWTGLHPEVARFG
YFSAALLAPHLIGEFLTLVLLGIVQNPINVSVALLSIAGVLVGSGFLR
NIQEMPIPFKIISYFTFQKYCSEILVVNEFYGLNFTCGSSNVSVTTNPMC
AFTQGIQFIEKTCPGATSRFTMNFLILYSFIPALVILGIVVKIRDHLIS
R

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

ABCG5

Full Name

ATP binding cassette subfamily G member 5

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 as a half-transporter to limit intestinal absorption and promote biliary excretion of sterols. It is expressed in a tissue-specific manner in the liver, colon, and intestine. This gene is tandemly arrayed on chromosome 2, in a head-to-head orientation with family member ABCG8. Mutations in this gene may contribute to sterol accumulation and atherosclerosis, and have been observed in patients with sitosterolemia.

Alternative Names

STSL; STSL2; ATP-binding cassette sub-family G member 5; ATP-binding cassette, sub-family G (WHITE), member 5; sterolin 1; ABCG5; ATP binding cassette subfamily G member 5

Gene ID

[64240](#)

UniProt ID

[Q9H222](#)