

## Recombinant Full Length Human ABCG8 Protein

Cat. No. ABCG8-822HF Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Product Overview | Human ABCG8 full-length ORF (ADR83246.1) recombinant protein without tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Source           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ProteinLength    | 673 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Description      | <p>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. [provided by RefSeq, Jul 2008]</p> |
| Form             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Molecular Mass   | 74.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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**AA Sequence**

MAGKAAEERG LPKGATPQHT SGLQDRLFSS ESDNSLYFTY SGQPNTLEVR  
 DLNYQVDLAS QVPWFEQLAQ FKMPWTSPSC QNSCELGIQN LSFKVRSGQM  
 LAIGSSGCG RASLLDVITG RGHGGKIKSG QIWINGQPSS PQLVRKCVAH  
 VRQHNQLLPN LTVRETLAFI AQMRLPRTFS QAQRDKRVED VIAELRLRQC  
 ADTRVGNMYV RGLSGGERRR VSIGVQLLWN PGILILDEPT SGLDSFTAHN  
 LVKTL SRLAK GNRLVLISLH QPRSDIFRLF DLVLLMTSGT PIYLGA AQHM  
 VQYFTAIGYP CPRYSNPADF YVDLTSIDRR SREQELATRE KAQSLAALFL  
 EKVRDLDDFL WKAETKDLDE DTCVESSVTP LDTNCLPSPT KMPGAVQQFT  
 TLIRRQISND FRDLPTLLIH GAEACLMSMT IGFLYFGHGS IQLSFMDTAA  
 LLFMIGALIP FNVILDVISK CYSERAMLYY ELEDGLYTTG PYFFAKILGE  
 LPEHCAYIII YGMPTYWLAN LRPGLQPFL HFLLVWL VVF CCRIMALAAA  
 ALLPTFHMAS FFSNALYNSF YLAGGFMINL SSLWTVPAWI SKVSFLRWCF  
 EGLMKIQFSR RTYKMPLGNL TIAVSGDKIL SAMELDSYPL YAIYLIVIGL  
 SGGFMVLYYV SLRFIKQKPS QDW

**Applications**

Antibody Production  
 Functional Study  
 Compound Screening

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

25 mM Tris-HCl of pH8.0 containing 2% glycerol.

**GENE INFORMATION**
**Gene Name**

ABCG8 ATP-binding cassette, sub-family G (WHITE), member 8 [ Homo sapiens ]

**Official Symbol**

ABCG8

**Synonyms**

ABCG8; ATP-binding cassette, sub-family G (WHITE), member 8; ATP binding

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cassette, sub family G (WHITE), member 8 (sterolin 2); ATP-binding cassette sub-family G member 8; gallbladder disease 4; GBD4; sterolin 2; sterolin-2; ATP-binding cassette, subfamily G, member 8; STSL; MGC142217

**Gene ID** [64241](#)

**mRNA Refseq** [NM\\_022437](#)

**Protein Refseq** [NP\\_071882](#)

**MIM** [605460](#)

**UniProt ID** [Q9H221](#)

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