

Datasheet for ABIN7561288  
**ABCG8 Protein (AA 1-673) (His tag)**



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## Overview

Quantity:	1 mg
Target:	ABCG8
Protein Characteristics:	AA 1-673
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCG8 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Abcg8 Protein expressed in mammalian cells.
Sequence:	MAEKTKEETQ LWNQTVLQDA SQGLQDSLFS SESDNSLYFT YSGQSNTLEV RDLTYQVDIA SQVPWFEQLA QFKIPWRSHS SQDSCELGIR NLSFKVRSGQ MLAIIGSSGC GRASLLDVIT GRGHGGKMKS GQIWINGQPS TPQLVRKQVA HVRQHDQLLP NLTVRETLAF IAQMRLPRTF SQAQRDKRVE DVIAELRLRQ CANTRVGNTY VRGVSGGERR RVSIGVQLLW NPGILILDEP TSGLDSTAH NLVTTLSRLA KGNRLVLISL HQPRSDIFRL FDLVLLMTSG TPIYLGAAQQ MVQYFTSIGH PCPRYSNPAD FYVDLTSIDR RSKEREVATV EKAQSLAALF LEKVQGFDDF LWKAEAKELN TSTHTVSLTL TQDTCGTAV ELPGMIEQFS TLIRRQISND FRDLPTLLIH GSEACLMSLI IGFLYYGHGA KQLSFMDTAA LLMIGALIP FNVILDVVS CHSERSMLYY ELEDGLYTAG PYFFAKILGE LPEHCAYVII YAMPIYWL TN LRPVPELFL HFLLVWLWVF CCRTMALAAS AMLPTFHMSS FFCNALYNSF YLTAGFMINL DNLWIVPAWI SKLSFLRWCF SGLMQIQFNG HLYTTQIGNF TFSILGDTMI SAMDLNSHPL YAIYLIVIGI SYGFLFLYYL SLKLIKQKSI QDW <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the</b>

## Product Details

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**expression system, a different complexity of the protein could make another tag necessary.**

**In case you have a special request, please contact us.**

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Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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Grade: custom-made

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## Target Details

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Target: ABCG8

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Alternative Name: Abcg8 ([ABCG8 Products](#))

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Background: ATP-binding cassette sub-family G member 8 (EC 7.6.2.-) (Sterolin-2),FUNCTION: ABCG5 and ABCG8 form an obligate heterodimer that mediates Mg(2+)- and ATP-dependent sterol transport across the cell membrane (PubMed:16352607, PubMed:16867993, PubMed:18402465). Plays an essential role in the selective transport of the dietary cholesterol in and out of the enterocytes and in the selective sterol excretion by the liver into bile (PubMed:12444248, PubMed:14504269, PubMed:14657202, PubMed:25378657). Plays an important role in preventing the accumulation of dietary plant sterols in the body (PubMed:12444248, PubMed:14657202). Required for normal sterol homeostasis (PubMed:12444248, PubMed:14657202). The heterodimer with ABCG5 has ATPase activity (PubMed:12444248, PubMed:14657202).

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## Target Details

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(PubMed:16352607, PubMed:16867993). {ECO:0000269|PubMed:12444248, ECO:0000269|PubMed:14504269, ECO:0000269|PubMed:14657202, ECO:0000269|PubMed:16352607, ECO:0000269|PubMed:16867993, ECO:0000269|PubMed:18402465, ECO:0000269|PubMed:25378657}.

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Molecular Weight: 76.0 kDa

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UniProt: [Q9DBM0](#)

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Pathways: [Lipid Metabolism](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months