

Recombinant Full Length Human ABCB7 Protein

Cat. No. ABCB7-01HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ABCB7 with N terminal proprietary tag; Predicted MWt 104.76 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	715 amino acids
Description	The membrane-associated 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 MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance as well as antigen presentation. This gene encodes a half-transporter involved in the transport of heme from the mitochondria to the cytosol. With iron/sulfur cluster precursors as its substrates, this protein may play a role in metal homeostasis. Mutations in this gene have been implicated in X-linked sideroblastic anemia with ataxia.
Form	Liquid
Molecular Mass	104.760kDa inclusive of tags
AA Sequence	PQWRPHQLGA LGTARAYQQI PESLKSITWQ RLGKGN SGQF LDAAKALQVW

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PLIEKRTCWH GHAGGGLHTD PKEGLKDVDT RKIIKAMLSY VWPKDRPDLR
 ARVAISLGFL GGAKAMNIVV PFMFKYAVDS LNQMSGNMLN LSDAPNTVAT
 MATAVLIGYG VSRAGAAFFN EVRNAVFGKV AQNSIRRIAK NVFLHLHNLD
 LGFHLSRQTG ALSKAIDRGT RGISFVLSAL VFNLLPIMFE VMLVSGVLYY
 KCGAQFALVT LGTLGTYTAF TVAVTRWRTR FRIEMNKADN DAGNAAIDSL
 LNYETVKYFN NERYEAQRYD GFLKTYETAS LKSTSTLAML NFGQSAIFSV
 GLTAIMVLAS QGIVAGTLTV GDLVMVNGLL FQLSLPLNFL GTVYRETRQA
 LIDMNTLFTL LKVDQTQIKDK VMASPLQITP QTATVAFDNV HFEYIEGQKV
 LSGISFEVPA GKKVAIVGGS GSGKSTIVRL LFRFYEPQKG SIYLAGQNIQ
 DVSLESLRRA VGVVPQDAVL FHNTIYYNLL YGNISASPEE VYAVAKLAGL
 HDAILRMPHG YDTQVGERGL KLSGGEKQRV AIARAILKDP PVILYDEATS
 SLDSITEETI LGAMKDVVKH RTSIFIAHRL STVVDADEII VLDQGKVAER
 GTHHGLLANP HSIYSEMWHT QSSRVQNHDN PKWEAKKENI SKEEERKKLQ
 EEIVNSVKGC GNCSC

Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents: 0.3% Glutathione, 0.79% Tris HCl.

GENE INFORMATION

Gene Name	ABCB7 ATP-binding cassette, sub-family B (MDR/TAP), member 7 [Homo sapiens]
Official Symbol	ABCB7
Synonyms	ABCB7; ATP-binding cassette, sub-family B (MDR/TAP), member 7; ABC7; ATP-binding cassette sub-family B member 7, mitochondrial; ASAT; Atm1p; EST140535

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Gene ID	22
mRNA Refseq	NM_004299
Protein Refseq	NP_004290
MIM	300135
UniProt ID	O75027

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