

## Product datasheet for **TP306885M**

### ABCD1 (NM\_000033) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ATP-binding cassette, sub-family D (ALD), member 1 (ABCD1), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC206885 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MPVLSRPRPWGNTLKR TAVLLALAAYGAHKVYPLVRQCLAPARGLQAPAGEPTQEASGVAAAKAGMNRV  
 FLQRLWLLRLLFPRVLCRETGLLALHSAALVSRTFLSVYVARLDGRLARCIVRKDPRAFGWQLLQWLLI  
 ALPATFVNSAIRYLEGQLALSFRSRLVAHAYRLYFSQQTYRVSNDGRLRNPDQSLTEDVVAFAASVAH  
 LYSNLTKPLLDVAVTSYTLRAARSRGAGTAWPSAIAGLVFLTANVLRASFSPKFGELVAEEARRKGELR  
 YMHSRVWANSEEIFYGGHEVELALLQRSYQDLASQINLILLERLWYVMLEQFLMKYVWSASGLLMVAVP  
 IITATGYSESDAEAVKKAALKEKKEEELVSETEAFTIARNLLTAAADAIERIMSSYKEVTELAGYTARVH  
 EMFQVFEDVQRCHFVKRPRELEDAQAGSGTIGRSGVRVEGPLKIRGQWVDVEQGIICENIPIVTPSGEVV  
 ASLNIRVEEGMHLLITGPNCGKSSLFRILGGLWPTYGGVLYKPPPQRMFYIPQRPYMSVGSRLDQVIYP  
 DSVEDMQRKGYSEQDLEAILDVVHLHHILQREGGWEAMCDWKDVLSSGGEKQRIGMARMFYHRPKYALLDE  
 CTSAVSIDVEGKIFQAAKDAGIALLSITHRPSLWKYHTHLLQFDGEGGWKFEKLD SAARLSL TEEKQRLE  
 QQLAGIPKMQRRLQELCQILGEAVAPAHVPAPSPQGPGLQGAST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	82.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_000024</a>
Locus ID:	215
UniProt ID:	<a href="#">P33897</a>
RefSeq Size:	3697
Cytogenetics:	Xq28
RefSeq ORF:	2235
Synonyms:	ABC42; ALD; ALDP; AMN
Summary:	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 ALD subfamily, which is involved in peroxisomal import of fatty acids and/or fatty acyl-CoAs in the organelle. All known peroxisomal ABC transporters are half transporters which require a partner half transporter molecule to form a functional homodimeric or heterodimeric transporter. This peroxisomal membrane protein is likely involved in the peroxisomal transport or catabolism of very long chain fatty acids. Defects in this gene have been identified as the underlying cause of adrenoleukodystrophy, an X-chromosome recessively inherited demyelinating disorder of the nervous system. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome
Protein Pathways:	ABC transporters

### Product images:



Coomassie blue staining of purified ABCD1 protein (Cat# [TP306885]). The protein was produced from HEK293T cells transfected with ABCD1 cDNA clone (Cat# [RC206885]) using MegaTran 2.0 (Cat# [TT210002]).