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Datasheet for ABIN7551736  
**ABCD4 Protein (AA 1-606) (His tag)**

## Overview

Quantity:	1 mg
Target:	ABCD4
Protein Characteristics:	AA 1-606
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCD4 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant ABCD4 Protein expressed in mammalian cells.
Sequence:	<p>MAVAGPAPGA GARPRDLQF LQRFLQILKV LFPSWSSQNA LMFLTLLCLT LLEQFVIYQV GLIPSQYYGV LGNKDLEGFK TLFLAVMLI VLNSTLKSFD QFTCNLLYVS WRKDLTEHLH RLYFRGRAYY TLNVLRDDID NPDQRISQDV ERFCRQLSSM ASKLIISPFT LVYYTYQCFQ STGWLGPVSI FGYFILGTVV NKTLMGPIVM KLVHQEKLEG DFRFKHMQIR VNAEPAAFYR AGHVEHMRTD RRLQRLLQTQ RELMSKELWL YIGINTFDYL GSILSYVVIA IPIFSGVYGD LSPAELSTLV SKNAFVCIYL ISCFTQLIDL STT LSDVAGY THRIGQLRET LLDMSLKSQD CEILGESEWG LDTPPGWPAE EPADTAFLE RVSISAPSSD KPLIKDSLK ISEGQSLIT GNTGTGKTSL LRVLGGLWTS TRGSVQMLTD FGPHGVLFLP QKPFFTDGTGTL REQVIYPLKE VYPDSGSADD ERILRFLELA GLSNLVARTE GLDQQVDWNW YDVLSPGEMQ RLSFARLFYL QPKYAVLDEA TSALTEEVES ELYRIGQQLG MTFISVGHRQ SLEKFHSLVL KLCGGGRWEL MRIKVE</p> <p><b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary.</b></p>

## Product Details

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

**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.

**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.

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

**Grade:** custom-made

## Target Details

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**Target:** ABCD4

**Alternative Name:** ABCD4 ([ABCD4 Products](#))

**Background:** Lysosomal cobalamin transporter ABCD4 (EC 7.6.2.8) (ATP-binding cassette sub-family D member 4) (PMP70-related protein) (P70R) (Peroxisomal membrane protein 1-like) (PXMP1-L) (Peroxisomal membrane protein 69) (PMP69),FUNCTION: Lysosomal membrane protein that transports cobalamin (Vitamin B12) from the lysosomal lumen to the cytosol in an ATP-dependent manner (PubMed:22922874, PubMed:33845046, PubMed:28572511, PubMed:31467407). Targeted by LMBRD1 lysosomal chaperone from the endoplasmic reticulum to the lysosomal membrane (PubMed:27456980). Then forms a complex with lysosomal chaperone LMBRD1 and cytosolic MMACHC to transport cobalamin across the lysosomal membrane (PubMed:25535791). {ECO:0000269|PubMed:22922874, ECO:0000269|PubMed:27456980, ECO:0000269|PubMed:28572511,

## Target Details

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ECO:0000269|PubMed:31467407, ECO:0000269|PubMed:33845046,  
ECO:0000303|PubMed:25535791}.

Molecular Weight: 68.6 kDa

UniProt: [O14678](#)

## 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.

Restrictions: For Research Use only

## Handling

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Format: Liquid

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

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months