

Product datasheet for RC206885L3

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ABCD1 (NM_000033) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: ABCD1 (NM_000033) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: ABCD1

Synonyms: ABC42; ALD; ALDP; AMN

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC206885).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_000033

ORF Size: 2235 bp





ABCD1 (NM_000033) Human Tagged Lenti ORF Clone - RC206885L3

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 000033.2</u>

RefSeq Size: 3697 bp RefSeq ORF: 2238 bp

Locus ID: 215

UniProt ID: P33897

Cytogenetics: Xq28

Domains: ABC tran, AAA

Protein Families: Druggable Genome
Protein Pathways: ABC transporters

MW: 82.9 kDa

Gene 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

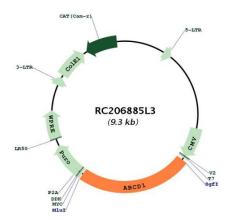
peroxisomal ABC transporters are half transporters which require a partner half transporter molecule to form a functional homodimeric or heterodimeric transporter. This peroxisomal membrane protein is likely involved in the peroxisomal transport or catabolism of very long chain fatty acids. Defects in this gene have been identified as the underlying cause of

adrenoleukodystrophy, an X-chromosome recessively inherited demyelinating disorder of the

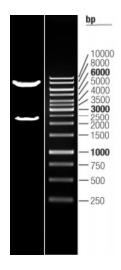
nervous system. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RC206885L3



Double digestion of RC206885L3 using Sgfl and Mlul $\,$