Datasheet for ABIN5415665

Human Abcd2 ORF Clone in Lentiviral Vector (GFP tag)

Overview

Quantity:	10 µg
Gene:	Abcd2
Species:	Human
Fusion tag:	GFP tag
Insert:	ORF
Vector:	Lentiviral Vector
Application:	Protein Expression (PExp)

Product Details

Purpose:	Lentiviral Vector with ORF clone of Human ATP-binding cassette, sub-family D (ALD), member 2 (ABCD2) , C-term GFP tagged
Brand:	LentiORF
Insert Length:	2223 bp
Vector Backbone:	pLenti-C-mGFP
Promoter:	CMV Promoter
Bacterial Resistance:	Chloramphenicol
Expression Type:	Transient
Specificity:	Restriction Site: SgfI-MluI
Characteristics:	mGFP tagged, C-terminal Broad cell spectrum: Lentivirus infect most cells, dividing & non-dividing, easy-to-transfect & hard-to-transfect cells. High transduction efficiency Convenience: Minimal need for optimization.

Product Details

	Safety: 3rd generation system with improved biosafety.
Components:	10 µg of lyophilized plasmid

Target Details

Gene:	Abcd2
Abstract:	Abcd2 Products
Background:	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. The function of this peroxisomal membrane protein is unknown, however this protein is speculated to function as a dimerization partner of ABCD1 and/or other peroxisomal ABC transporters. Mutations in this gene have been observed in patients with adrenoleukodystrophy, a severe demyelinating disease. This gene has been identified as a candidate for a modifier gene, accounting for the extreme variation among adrenoleukodystrophy phenotypes. This gene is also a candidate for a complement group of Zellweger syndrome, a genetically heterogeneous disorder of peroxisomal biogenesis.
NCBI Accession:	NM_005164, NP_005155

Application Details

Application Notes:	Ideal For Tracking the over-expressed protein in tranfected cells
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Storage:	4 °C/-20 °C

Publications

Product cited in:	Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (

1991)