

Product datasheet for **RC220918L4V**

Alkyl DHAP synthase (AGPS) (NM_003659) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Alkyl DHAP synthase (AGPS) (NM_003659) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Alkyl DHAP synthase
Synonyms:	ADAP-S; ADAS; ADHAPS; ADPS; ALDHPSY; RCDP3
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_003659
ORF Size:	1974 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC220918).
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.
RefSeq:	NM_003659.1
RefSeq Size:	2074 bp
RefSeq ORF:	1977 bp
Locus ID:	8540
UniProt ID:	O00116
Cytogenetics:	2q31.2
Domains:	FAD-oxidase_C, FAD_binding_4
Protein Pathways:	Ether lipid metabolism, Metabolic pathways



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MW: 72.91 kDa

Gene Summary: This gene is a member of the FAD-binding oxidoreductase/transferase type 4 family. It encodes a protein that catalyzes the second step of ether lipid biosynthesis in which acyl-dihydroxyacetonephosphate (DHAP) is converted to alkyl-DHAP by the addition of a long chain alcohol and the removal of a long-chain acid anion. The protein is localized to the inner aspect of the peroxisomal membrane and requires FAD as a cofactor. Mutations in this gene have been associated with rhizomelic chondrodysplasia punctata, type 3 and Zellweger syndrome. [provided by RefSeq, Jul 2008]