

Product datasheet for **TL314891**

Alkyl DHAP synthase (AGPS) Human shRNA Plasmid Kit (Locus ID 8540)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Alkyl DHAP synthase (AGPS) Human shRNA Plasmid Kit (Locus ID 8540)
Locus ID:	8540
Synonyms:	ADAP-S; ADAS; ADHAPS; ADPS; ALDHPSY; RCDP3
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	AGPS - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 8540). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_003659 , NM_003659.1 , NM_003659.2 , NM_003659.3 , BC141820 , NM_003659.4
UniProt ID:	O00116
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]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com . If you need a special design or shRNA sequence, please utilize our custom shRNA service .

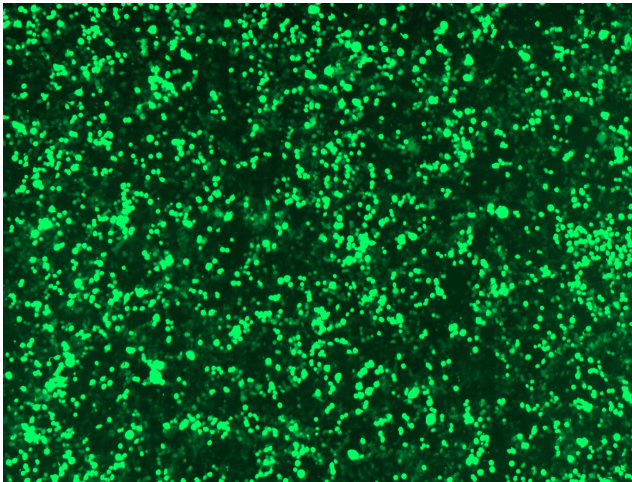


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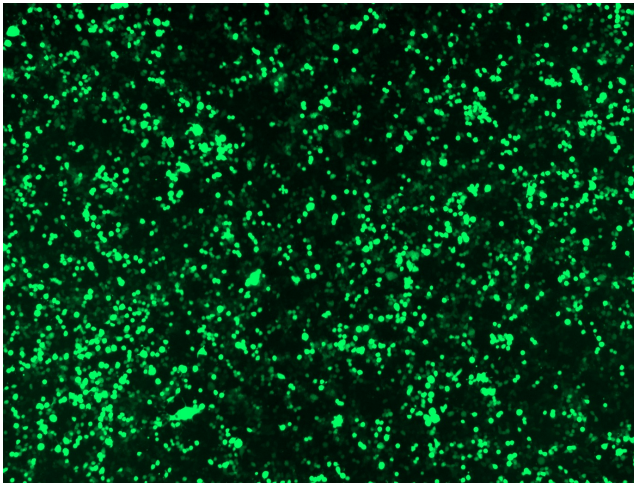
**Performance
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

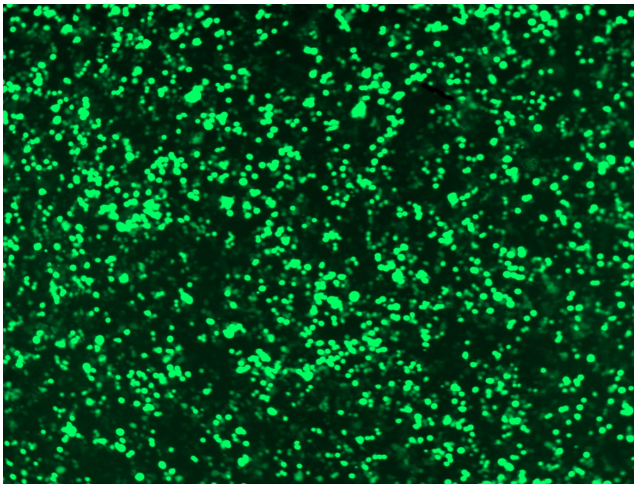
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

Product images:

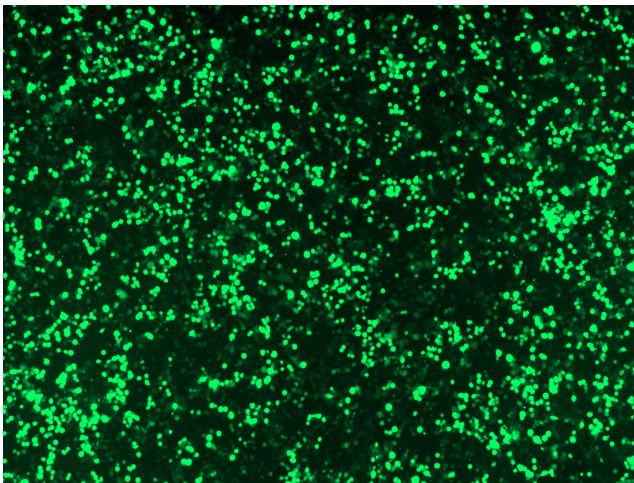
GFP signal was observed under microscope at 48 hours after transduction of TL314891A virus into HEK293 cells. TL314891A virus was prepared using lenti-shRNA TL314891A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL314891B virus into HEK293 cells. TL314891B virus was prepared using lenti-shRNA TL314891B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL314891C] virus into HEK293 cells. [TL314891C] virus was prepared using lenti-shRNA [TL314891C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL314891D] virus into HEK293 cells. [TL314891D] virus was prepared using lenti-shRNA [TL314891D] and [TR30037] packaging kit.