

Product datasheet for TR314874

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AIPL1 Human shRNA Plasmid Kit (Locus ID 23746)

Product data:

Product Type: shRNA Plasmids

Product Name: AIPL1 Human shRNA Plasmid Kit (Locus ID 23746)

Locus ID:

Synonyms: AIPL2; LCA4

Vector: pRS (TR20003)

E. coli Selection: Ampicillin Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

AIPL1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = Components:

23746). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

BC012055, NM 001033054, NM 001033055, NM 001285399, NM 001285400, NM 001285401, RefSeq:

> NM 001285402, NM 001285403, NM 014336, NM 014336.1, NM 014336.2, NM 014336.3, NM 014336.4, NM 001033054.1, NM 001033054.2, NM 001033055.1, NM 001033055.2, NM 001285403.1, NM 001285403.2, NM 001285402.1, NM 001285401.1, NM 001285401.2, NM 001285400.1, NM 001285400.2, NM 001285399.2, BC012055.1, BC007994, BM685943, NM 001033055.3, NM 001285403.3, NM 001285400.3, NM 001033054.3, NM 001285401.3,

NM 001285402.2, NM 001285399.3, NM 014336.5

UniProt ID: Q9NZN9

Summary: Leber congenital amaurosis (LCA) is the most severe inherited retinopathy with the earliest

> age of onset and accounts for at least 5% of all inherited retinal diseases. Affected individuals are diagnosed at birth or in the first few months of life with nystagmus, severely impaired vision or blindness and an abnormal or flat electroretinogram. The photoreceptor/pinealexpressed gene, AIPL1, encoding aryl-hydrocarbon interacting protein-like 1, is located within the LCA4 candidate region. The encoded protein contains three tetratricopeptide motifs, consistent with chaperone or nuclear transport activity. Mutations in this gene may cause approximately 20% of recessive LCA. Alternative splicing results in multiple transcript

variants. [provided by RefSeq, Jan 2014]







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.

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).