

Product datasheet for TR302394

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

PNPLA1 Human shRNA Plasmid Kit (Locus ID 285848)

Product data:

Product Type: shRNA Plasmids

Product Name: PNPLA1 Human shRNA Plasmid Kit (Locus ID 285848)

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Synonyms: dJ50J22.1; FLJ38755; FLJ38755, MGC119319, MGC119320, MGC119321, dJ50J22.1; MGC119319;

MGC119320; MGC119321; OTTHUMP00000016289; OTTHUMP00000039681; patatin-like

phospholipase domain containing 1

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format:

Retroviral plasmids

Components: PNPLA1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

285848). 5µg purified plasmid DNA per construct

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

RefSeq: NM 001039725, NM 001145716, NM 001145717, NM 173676, NM 173676.1, NM 173676.2,

NM 001145716.1, NM 001145716.2, NM 001145717.1, NM 001039725.1, BC103906,

BC103905, BC103907

UniProt ID: Q8N8W4

Summary: The protein encoded by this gene belongs to the patatin-like phospholipase (PNPLA) family,

which is characterized by the presence of a highly conserved patatin domain. PNPLA family members have diverse lipolytic and acyltransferase activities, and are key elements in lipid metabolism. While other members of this family have been well characterized, the function of this gene remained an enigma. However, recent studies show that this gene is expressed in the skin epidermal keratinocytes, and has a role in glycerophospholipid metabolism in the cutaneous barrier. Consistent with these observations, mutations in this gene are associated

with ichthyosis in human (autosomal recessive congenital ichthyoses, ARCI) and dog.

Alternatively spliced transcript variants encoding different isoforms have been found for this

gene. [provided by RefSeq, Jun 2012]







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).