

Product datasheet for TR305075

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DDHD1 Human shRNA Plasmid Kit (Locus ID 80821)

Product data:

Product Type: shRNA Plasmids

Product Name: DDHD1 Human shRNA Plasmid Kit (Locus ID 80821)

Locus ID: 80821

Synonyms: iPLA1alpha; PA-PLA1; PAPLA1; SPG28

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format:

Retroviral plasmids

Components: DDHD1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

80821). 5µg purified plasmid DNA per construct

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

RefSeq: NM 001160147, NM 001160148, NM 030637, NM 030637.1, NM 030637.2, NM 001160147.1,

NM 001160148.1, BC030703, BC030703.2, BC018014, NM 001160147.2, NM 001160148.2

UniProt ID: O8NEL9

Summary: This gene is a member of the intracellular phospholipase A1 gene family. The protein

encoded by this gene preferentially hydrolyzes phosphatidic acid. It is a cytosolic protein with

some mitochondrial localization, and is thought to be involved in the regulation of

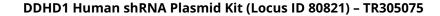
mitochondrial dynamics. Overexpression of this gene causes fragmentation of the tubular structures in mitochondria, while depletion of the gene results in mitochondrial tubule elongation. Deletion of this gene in male mice caused fertility defects, resulting from disruption in the organization of the mitochondria during spermiogenesis. In humans, mutations in this gene have been associated with hereditary spastic paraplegia (HSP), also known as Strumpell-Lorrain disease, or, familial spastic paraparesis (FSP). This inherited disorder is characterized by progressive weakness and spasticity of the legs. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by

RefSeq, Aug 2015]

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 <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.







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).