

Product datasheet for TR511746

OriGene Technologies, Inc.

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Ogdh Mouse shRNA Plasmid (Locus ID 18293)

Product data:

Product Type: shRNA Plasmids

Product Name: Ogdh Mouse shRNA Plasmid (Locus ID 18293)

Locus ID: 18293

Synonyms: 2210403E04Rik; 2210412K19Rik; AA409584; d1401; mKIAA4192

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format:

Retroviral plasmids

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

18293). 5µg purified plasmid DNA per construct

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

RefSeq: BC013670, BC049104, BC057354, NM 001252282, NM 001252283, NM 001252287,

NM 001252288, NM 010956, NM 010956.1, NM 010956.2, NM 010956.3, NM 010956.4, NM 001252288.1, NM 001252287.1, NM 001252283.1, NM 001252282.1, BC012042,

BC025040, BC029143, BC031165, BC061232, NM 001361902, NM 001361903, NM 001361904,

NM 001361905, NM 001252287.2

UniProt ID: Q60597

Summary: 2-oxoglutarate dehydrogenase (E1) component of the 2-oxoglutarate dehydrogenase

complex, which mediates the decarboxylation of alpha-ketoglutarate. The 2-oxoglutarate dehydrogenase complex catalyzes the overall conversion of 2-oxoglutarate to succinyl-CoA and CO(2). The 2-oxoglutarate dehydrogenase complex is mainly active in the mitochondrion. A fraction of the 2-oxoglutarate dehydrogenase complex also localizes in the nucleus and is required for lysine succinylation of histones: associates with KAT2A on chromatin and

provides succinyl-CoA to histone succinyltransferase KAT2A.[UniProtKB/Swiss-Prot Function]

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).