

Product datasheet for TL310530V

OriGene Technologies, Inc.

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PDHB Human shRNA Lentiviral Particle (Locus ID 5162)

Product data:

Product Type: shRNA Lentiviral Particles

Product Name: PDHB Human shRNA Lentiviral Particle (Locus ID 5162)

Locus ID: 5162

Synonyms: PDHBD; PDHE1-B; PDHE1B

Vector: pGFP-C-shLenti (TR30023)

Format: Lentiviral particles

Components: PDHB - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble

control), 0.5 ml each, >10^7 TU/ml.

RefSeq: NM 000925, NM 001173468, NM 001315536, NR 033384, NM 000925.1, NM 000925.2,

NM 000925.3, NM 001173468.1, BC001924, BC001924.1, BC000439, BC004115, BM971427

UniProt ID: P11177

Summary: The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial

multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and carbon dioxide, and provides the primary link between glycolysis and the tricarboxylic acid

(TCA) cycle. The PDH complex is composed of multiple copies of three enzymatic

components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3). The E1 enzyme is a heterotetramer of two alpha and two beta subunits. This gene encodes the E1 beta subunit. Mutations in this gene are associated with pyruvate dehydrogenase E1-beta deficiency. Alternatively spliced transcript variants have

been found for this gene. [provided by RefSeq, Mar 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 <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).