

Product datasheet for TR311736

OriGene Technologies, Inc.

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DNA Ligase I (LIG1) Human shRNA Plasmid Kit (Locus ID 3978)

Product data:

Product Type: shRNA Plasmids

Product Name: DNA Ligase I (LIG1) Human shRNA Plasmid Kit (Locus ID 3978)

Locus ID: 3978

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

Components: LIG1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

3978). 5µg purified plasmid DNA per construct

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

RefSeq: NM 000234, NM 001289063, NM 001289064, NM 001320970, NM 001320971, NR 110296,

NR 135497, NR 135498, NR 135499, NR 135500, NR 135501, NM 000234.1, NM 000234.2, NM 001289064.1, NM 001289063.1, BC108318, BC108318.1, BC110622, NM 000234.3,

NM 001289063.2

UniProt ID: P18858

Summary: This gene encodes a member of the ATP-dependent DNA ligase protein family. The encoded

protein functions in DNA replication, recombination, and the base excision repair process. Mutations in this gene that lead to DNA ligase I deficiency result in immunodeficiency and increased sensitivity to DNA-damaging agents. Disruption of this gene may also be associated with a variety of cancers. 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 <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).