

Product datasheet for **TL309587**

SDHC Human shRNA Plasmid Kit (Locus ID 6391)

Product data:

Product Type:	shRNA Plasmids
Product Name:	SDHC Human shRNA Plasmid Kit (Locus ID 6391)
Locus ID:	6391
Synonyms:	CYB560; CYBL; PGL3; QPS1; SDH3
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	SDHC - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 6391). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001035511 , NM_001035512 , NM_001035513 , NM_001278172 , NM_003001 , NR_103459 , NM_003001.1 , NM_003001.2 , NM_003001.3 , NM_001035511.1 , NM_001035513.1 , NM_001035512.1 , NM_001278172.1 , BC020808 , BC020808.1 , BC012735 , BC033626 , BC066329 , NM_001035511.2 , NM_001035513.2 , NM_001278172.2 , NM_001035512.2 , NM_003001.5
UniProt ID:	Q99643
Summary:	This gene encodes one of four nuclear-encoded subunits that comprise succinate dehydrogenase, also known as mitochondrial complex II, a key enzyme complex of the tricarboxylic acid cycle and aerobic respiratory chains of mitochondria. The encoded protein is one of two integral membrane proteins that anchor other subunits of the complex, which form the catalytic core, to the inner mitochondrial membrane. There are several related pseudogenes for this gene on different chromosomes. Mutations in this gene have been associated with paragangliomas. Alternatively spliced transcript variants have been described. [provided by RefSeq, May 2013]
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 .



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**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).