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Product datasheet for TL309798V

RNase H1 (RNASEH1) Human shRNA Lentiviral Particle (Locus ID 246243)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	RNase H1 (RNASEH1) Human shRNA Lentiviral Particle (Locus ID 246243)
Locus ID:	246243
Synonyms:	H1RNA; PEOB2; RNH1
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	RNASEH1 - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.
RefSeq:	NM_001286834, NM_001286837, NM_002936, NR_148532, NR_148533, NR_148534, NM_002936.2, NM_002936.3, NM_002936.4, NM_001286837.1, NM_001286834.1, BC002973, NM_002936.6, NM_001286834.3, NM_001286837.3
UniProt ID:	O60930
Summary:	This gene encodes an endonuclease that specifically degrades the RNA of RNA-DNA hybrids and plays a key role in DNA replication and repair. Alternate in-frame start codon initiation results in the production of alternate isoforms that are directed to the mitochondria or to the nucleus. The production of the mitochondrial isoform is modulated by an upstream open reading frame (uORF). Mutations in this gene have been found in individuals with progressive external ophthalmoplegia with mitochondrial DNA deletions, autosomal recessive 2. Alternative splicing results in additional coding and non-coding transcript variants. Pseudogenes of this gene have been defined on chromosomes 2 and 17. [provided by RefSeq, Jul 2017]
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).