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Product datasheet for TL311172V

ISCU Human shRNA Lentiviral Particle (Locus ID 23479)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	ISCU Human shRNA Lentiviral Particle (Locus ID 23479)
Locus ID:	23479
Synonyms:	2310020H20Rik; HML; hnifU; ISU2; NIFU; NIFUN
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	ISCU - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.
RefSeq:	NM_001301140, NM_001301141, NM_001320042, NM_014301, NM_213595, NR_135127, NM_213595.1, NM_213595.2, NM_213595.3, NM_014301.1, NM_014301.2, NM_014301.3, NM_014301.4, NM_001301140.1, NM_001301141.1, BC011906, BC011906.2, BC003522, BC061903, BM423850, BM921073, NM_213595.4
UniProt ID:	Q9H1K1
Summary:	This gene encodes a component of the iron-sulfur (Fe-S) cluster scaffold. Fe-S clusters are cofactors that play a role in the function of a diverse set of enzymes, including those that regulate metabolism, iron homeostasis, and oxidative stress response. Alternative splicing results in transcript variants encoding different protein isoforms that localize either to the cytosol or to the mitochondrion. Mutations in this gene have been found in patients with hereditary myopathy with lactic acidosis. A disease-associated mutation in an intron may activate a cryptic splice site, resulting in the production of a splice variant encoding a putatively non-functional protein. A pseudogene of this gene is present on chromosome 1. [provided by RefSeq, Feb 2016]
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).