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Product datasheet for TL511644

Cldn16 Mouse shRNA Plasmid (Locus ID 114141)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Cldn16 Mouse shRNA Plasmid (Locus ID 114141)
Locus ID:	114141
Synonyms:	claudi; claudin-16; PC; PCLN1
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Cldn16 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 114141). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	BC115574, BC115575, NM_053241, NM_053241.1, NM_053241.2, NM_053241.3, NM_053241.4, NM_053241.5
UniProt ID:	Q925N4
Summary:	This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets, and also play critical roles in maintaining cell polarity and signal transductions. The protein encoded by this gene is critical for renal paracellular epithelial transport of Ca(2+) and Mg(2+) in the thick ascending loop of Henle. The gene deficiency leads to specific alterations in renal Ca(2+) and Mg(2+) balance and also to disturbances in Na(+) handling. The interaction of this gene and the Cldn 19 gene is required for their assembly into tight junctions and for renal Mg(2+) reabsorption. This gene and the Cldn1 gene are clustered on chromosome 16. [provided by RefSeq, Aug 2010]
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).

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