

## **Product datasheet for TL313868**

#### OriGene Technologies, Inc.

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## Claudin18 (CLDN18) Human shRNA Plasmid Kit (Locus ID 51208)

**Product data:** 

**Product Type:** shRNA Plasmids

Product Name: Claudin18 (CLDN18) Human shRNA Plasmid Kit (Locus ID 51208)

**Locus ID:** 51208

Synonyms: SFTA5; SFTPJ

Vector: pGFP-C-shLenti (TR30023)

E. coli Selection: Chloramphenicol (34 ug/ml)

**Mammalian Cell** 

Puromycin

Selection:

Format: Lentiviral plasmids

CLDN18 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID =

51208). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

RefSeq: NM 001002026, NM 016369, NM 016369.1, NM 016369.2, NM 016369.3, NM 001002026.1,

NM 001002026.2, BC063845, BC142708, BC146668, BM785703, NM 016369.4,

NM 001002026.3

UniProt ID: P56856

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. This gene is upregulated in patients with ulcerative colitis and highly overexpressed in infiltrating ductal adenocarcinomas. PKC/MAPK/AP-1 (protein kinase

C/mitogen-activated protein kinase/activator protein-1) dependent pathway regulates the expression of this gene in gastric cells. Alternatively spliced transcript variants encoding

different isoforms have been identified. [provided by RefSeq, Jun 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 <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.





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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).