EMPOWER YOUR RESEARCH

## Product datasheet for TF311762

## LEFTY2 Human shRNA Plasmid Kit (Locus ID 7044)

## Product data:

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Product Type:
Product Name:
Locus ID:
Synonyms:
Vector:
E. coli Selection:

Mammalian Cell
Selection:
Format:
Components:

RefSeq:

UniProt ID:
Summary:
Product Name.
shRNA Design:
shRNA Plasmids
LEFTY2 Human shRNA Plasmid Kit (Locus ID 7044)
7044
EBAF; LEFTA; LEFTYA; TGFB4
pRFP-C-RS (TR30014)
Chloramphenicol (34 ug/ml)
Puromycin

Retroviral plasmids
LEFTY2 - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 7044). $5 \mu \mathrm{~g}$ purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.

NM 001172425, NM 003240, NM 003240.1 NM 003240.2, NM 003240.3, NM 003240.4, NM 001172425.1, NM 001172425.2, BC035718, BC035718.1, BC065929, NM 003240.5

## $\underline{000292}$

This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate the mature protein, which plays a role in left-right asymmetry determination of organ systems during development. The protein may also play a role in endometrial bleeding. Mutations in this gene have been associated with left-right axis malformations, particularly in the heart and lungs. Some types of infertility have been associated with dysregulated expression of this gene in the endometrium. This gene is closely linked to both a related family member and a related pseudogene. This gene encodes multiple isoforms that may undergo similar proteolytic processing. [provided by RefSeq, Aug 2016]
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.

## Performance <br> 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).

