

Product datasheet for **TR511121**

Bpifa1 Mouse shRNA Plasmid (Locus ID 18843)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Bpifa1 Mouse shRNA Plasmid (Locus ID 18843)
Locus ID:	18843
Synonyms:	LUNX; NASG; Plunc; SPLUNC1; SPURT
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Bpifa1 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector (Gene ID = 18843). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC054375 , NM_011126 , NM_011126.1 , NM_011126.2 , NM_011126.3
UniProt ID:	P97361
Summary:	Lipid-binding protein which shows high specificity for the surfactant phospholipid dipalmitoylphosphatidylcholine (DPPC) (By similarity). Plays a role in the innate immune responses of the upper airways (PubMed:23499554). Reduces the surface tension in secretions from airway epithelia and inhibits the formation of biofilm by pathogenic Gram-negative bacteria, such as <i>P.aeruginosa</i> and <i>K.pneumoniae</i> (PubMed:23499554). Negatively regulates proteolytic cleavage of SCNN1G, an event that is required for activation of the epithelial sodium channel (ENaC), and thereby contributes to airway surface liquid homeostasis and proper clearance of mucus (By similarity). Plays a role in the airway inflammatory response after exposure to irritants (By similarity). May attract macrophages and neutrophils (By similarity).[UniProtKB/Swiss-Prot Function]
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).