

## **Product datasheet for RG228781**

### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

## SFTPA1 (NM\_001164644) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** SFTPA1 (NM\_001164644) Human Tagged ORF Clone

Tag: TurboGFP Symbol: SFTPA1

Synonyms: COLEC4; PSAP; PSP-A; PSPA; SFTP1; SFTPA1B; SP-A; SP-A1; SP-A1 beta; SP-A1 delta; SP-A1

epsilon; SP-A1 gamma; SPA; SPA1

Mammalian Cell

Selection:

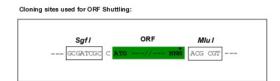
Neomycin

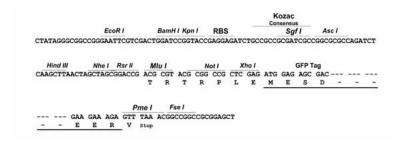
**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 





**ACCN:** NM 001164644

ORF Size: 744 bp



#### SFTPA1 (NM\_001164644) Human Tagged ORF Clone - RG228781

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:** 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 001164644.1</u>, <u>NP 001158116.1</u>

10q22.3

 RefSeq Size:
 2189 bp

 RefSeq ORF:
 747 bp

 Locus ID:
 653509

 UniProt ID:
 Q8IWL2

Cytogenetics:

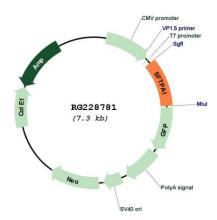
**Gene Summary:** This gene encodes a lung surfactant protein that is a member of a subfamily of C-type lectins

called collectins. The encoded protein binds specific carbohydrate moieties found on lipids and on the surface of microorganisms. This protein plays an essential role in surfactant homeostasis and in the defense against respiratory pathogens. Mutations in this gene are associated with idiopathic pulmonary fibrosis. Alternate splicing results in multiple transcript

variants. [provided by RefSeq, May 2010]



# **Product images:**



Circular map for RG228781