

## Product datasheet for **SC316168**

### **SFTPA1 (NM\_001093770) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SFTPA1 (NM_001093770) Human Untagged Clone
Tag:	Tag Free
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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_001093770 edited ATGAGGCCATGCCAGGTGCCAGGAGCAGCGACTGGACCCAGAGCCATGTGGCTGTGCCCT CTGGCCCTCAACCTCATCTTGATGGCAGCCTCTGGTGTGTGTGCGAAGTGAAGGACGTT TGTGTTGGAAGCCCTGGTATCCCCGGCACTCCTGGATCCCACGGCCTGCCAGGCAGGGAC GGGAGAGATGGTCTCAAAGGAGACCCTGGCCCTCCAGGCCCATGGGTCCACCTGGAGAA ATGCCATGTCCTCTGGAAATGATGGGCTGCCTGGAGCCCTGGTATCCCTGGAGAGTGT GGAGAGAAGGGGAGCCTGGCGAGAGGGCCCTCCAGGGCTTCCAGCTCATCTAGATGAG GAGCTCCAAGCCACACTCCACGACTTTAGACATCAAATCTGCAGACAAGGGGAGCCCTC AGTCTGCAGGGCTCCATAATGACAGTAGGAGAGAAGGTCTTCTCCAGCAATGGGCAGTCC ATCACTTTTGTGCCATTGAGGAGCATGTGCCAGAGCAGGCGGCCGATTGCTGTCCCA AGGAATCCAGAGGAAAAATGAGGCCATTGCAAGCTTCGTGAAGAAGTACAACACATATGCC TATGTAGGCCTGACTGAGGGTCCCAGCCCTGGAGACTTCCGCTACTCAGACGGGACCCT GTAAACTACACCAACTGGTACCGAGGGGAGCCCGAGGTGCGGGAAAAGAGCAGTGTGTG GAGATGTACACAGATGGGCAGTGAATGACAGGAAGTGCCTGACTCCCGACTGACCATC TGTGAGTTCTGA
Restriction Sites:	Please inquire
ACCN:	NM_001093770
Insert Size:	800 bp



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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM\_001093770.1.

**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:** [NM\\_001093770.1](#), [NP\\_001087239.1](#)

**RefSeq Size:** 1311 bp

**RefSeq ORF:** 738 bp

**Locus ID:** 653509

**UniProt ID:** [Q8IWL2](#)

**Cytogenetics:** 10q22.3

**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]

Transcript Variant: This variant (2) differs in the 5' UTR and includes an additional segment in the 5' coding region, compared to variant 1. The encoded isoform (2) has a longer and distinct N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.