

## Product datasheet for **SC303638**

### SFTPA1 (NM\_005411) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SFTPA1 (NM_005411) 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><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_005411 edited GCAGCTGGAGGCTCTGTGTGTGGGAGCAGCGACTGGACCCAGAGCCATGTGGCTGTGCC TCTGGCCCTCAACCTCATCTTGATGGCAGCCTCTGGTGTGTGTGCGAAGTGAAGGACGT TTGTGTTGGAAGCCCTGGTATCCCCGGCACTCTGGATCCCAGGCTGCCAGGCAGGGA CGGGAGAGATGGTCTCAAAGGAGACCCTGGCCCTCCAGGCCCATGGGTCCACCTGGAGA AATGCCATGTCTCCTGGAAATGATGGGCTGCCTGGAGCCCTGGTATCCCTGGAGAGTG TGGAGAGAAGGGGGAGCCTGGCGAGAGGGGCCCTCCAGGGCTTCCAGCTCATCTAGATGA GGAGCTCCAAGCCACACTCCACGACTTTAGACATCAAATCCTGCAGACAAGGGGAGCCCT CAGTCTGCAGGGCTCCATAATGACAGTAGGAGAGAAGGTCTTCTCCAGCAATGGGCAGTC CATCACTTTTGTGCCATTGAGGAGGCATGTGCCAGAGCAGGCGGCCGATTGCTGTCCC AAGGAATCCAGAGGAAAATGAGGCCATTGCAAGCTTCGTGAAGAAGTACAACACATATGC CTATGTAGGCCTGACTGAGGGTCCCAGCCCTGGAGACTCCGCTACTCAGACGGGACCCC TGTAACACTACACCAACTGGTACCGAGGGGAGCCCGCAGGTCGGGGAAAAGAGCAGTGTGT GGAGATGTACACAGATGGGCAGTGAATGACAGGAACTGCCTGTACTCCCGACTGACCAT CTGTGAGTTCTGAGAGGCATTTAGGCCATGGGACA
Restriction Sites:	Please inquire
ACCN:	NM_005411
Insert Size:	800 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_005411.3.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005411.3</a> , <a href="#">NP_005402.3</a>
<b>RefSeq Size:</b>	968 bp
<b>RefSeq ORF:</b>	747 bp
<b>Locus ID:</b>	653509
<b>UniProt ID:</b>	<a href="#">Q8IWL2</a>
<b>Cytogenetics:</b>	10q22.3
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 3 and 4 encode the same 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.</p>