

Product datasheet for RG229661

SFTPC (NM_001172357) Human Tagged ORF Clone

Product data:

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

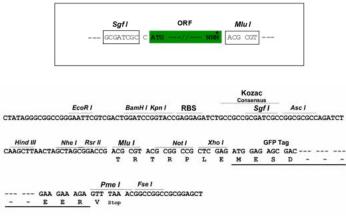
Product Type:	Expression Plasmids
Product Name:	SFTPC (NM_001172357) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SFTPC
Synonyms:	BRICD6; PSP-C; SFTP2; SMDP2; SP-C; SP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG229661 representing NM_001172357 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGATGTGGGCAGCAAAGAGGTCCTGATGGAGAGCCCGCCGGACTACTCCGCAGCTCCCCGGGGCCGAT TTGGCATTCCCTGCTGCCCAGTGCACCTGAAACGCCTTCTTATCGTGGTGGTGGTGGTGGTGGTCCTCATCGT CGTGGTGATTGTGGGAGCCCTGCTCATGGGTCTCCACATGAGCCAGAAAACACACGGAGATGGTTCTGGAG ATGAGCATTGGGGCGCCGGAAGCCCAGCAACGCCTGGCCCTGAGTGAG
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	<pre>>RG229661 representing NM_001172357 Red=Cloning site Green=Tags(s)</pre>
	MDVGSKEVLMESPPDYSAAPRGRFGIPCCPVHLKRLLIVVVVVLIVVVIVGALLMGLHMSQKHTEMVLE MSIGAPEAQQRLALSEHLVTTATFSIGSTGLVVYDYQQLLIAYKPAPGTCCYIMKIAPESIPSLEALTRK VHNFQAKPAVPTSKLGQAEGRDAGSAPSGGDPAFLGMAVSTLCGEVPLYYI
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul



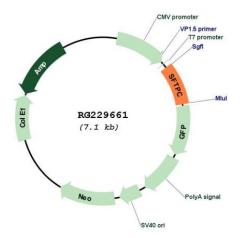
This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Cloning Scheme:





Plasmid Map:



ACCN:	NM_001172357
ORF Size:	573 bp
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. <u>More info</u>
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).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

SFTPC (NM_001172357) Human Tagged ORF Clone - RG229661

Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 001172357.2</u>
RefSeq Size:	1187 bp
RefSeq ORF:	576 bp
Locus ID:	6440
UniProt ID:	<u>P11686</u>
Cytogenetics:	8p21.3
Protein Families:	Secreted Protein, Transmembrane
Gene Summary:	This gene encodes the pulmonary-associated surfactant protein C (SPC), an extremely hydrophobic surfactant protein essential for lung function and homeostasis after birth. Pulmonary surfactant is a surface-active lipoprotein complex composed of 90% lipids and 10% proteins which include plasma proteins and apolipoproteins SPA, SPB, SPC and SPD. The surfactant is secreted by the alveolar cells of the lung and maintains the stability of pulmonary tissue by reducing the surface tension of fluids that coat the lung. Multiple mutations in this gene have been identified, which cause pulmonary surfactant protein C deficiency, and are associated with interstitial lung disease in older infants, children, and

adults. Alternatively spliced transcript variants encoding different protein isoforms have been

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

identified.[provided by RefSeq, Feb 2010]