

Product datasheet for RC229661

SFTPC (NM 001172357) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SFTPC (NM_001172357) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: SFTPC

Synonyms: BRICD6; PSP-C; SFTP2; SMDP2; SP-C; SP5

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC229661 representing NM_001172357
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GCTCTACTACATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229661 representing NM_001172357

Red=Cloning site Green=Tags(s)

MDVGSKEVLMESPPDYSAAPRGRFGIPCCPVHLKRLLIVVVVVVLIVVVIVGALLMGLHMSQKHTEMVLE MSIGAPEAQORLALSEHLVTTATFSIGSTGLVVYDYQQLLIAYKPAPGTCCYIMKIAPESIPSLEALTRK

VHNFQAKPAVPTSKLGQAEGRDAGSAPSGGDPAFLGMAVSTLCGEVPLYYI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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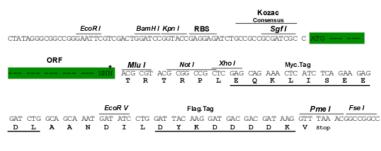
Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf1 ORF Miu I

--- GCGATCGC C ATG --- NNN ACG CGT ---



^{*} The last codon before the Stop codon of the ORF

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. 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.

RefSeg: NM 001172357.2

 RefSeq ORF:
 576 bp

 Locus ID:
 6440

 UniProt ID:
 P11686



Cytogenetics: 8p21.3

Protein Families: Secreted Protein, Transmembrane

MW: 20.8 kDa

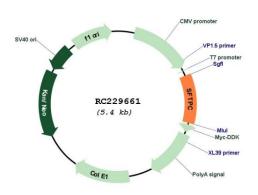
Gene Summary: This gene encodes the pulmonary-associated surfactant protein C (SPC), an extremely

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 metabolism dysfunction type 2, also called pulmonary alveolar proteinosis due to surfactant protein C deficiency, and are associated with interstitial lung disease in older infants, children, and

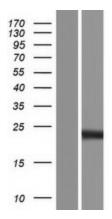
adults. Alternatively spliced transcript variants encoding different protein isoforms have been

identified.[provided by RefSeq, Feb 2010]

Product images:



Circular map for RC229661



Western blot validation of overexpression lysate (Cat# [LY432661]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229661 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).