

Product datasheet for **MR226883**

Sftpb (NM_147779) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sftpb (NM_147779) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sftpb
Synonyms: A1562151; SF-B; Sftp-3; Sftp3; SP-B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226883 representing NM_147779
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAAGTCGCACCTACTGCAGTGGCTACTGCTGCTTCTACCTCTGCTGCCAGGTGCAGCTATCA
CGTCGGCCTCATCCCTGGAGTGTGCACAAGGCCCTCAATTCTGGTGCCAAAGCCTGGAGCATGCAGTGCA
GTGCAGAGCCCTGGGCACTGCCTGCAGGAAGTCTGGGGCATGCAGGAGCTAATGACCTGTGCCAAGAG
TGTGAGGATATTGTCCACCTCCTCACAAGATGACCAAGGAAGATGCTTCCAGGAAGCAATCCGGAAGT
TCCTGGAACAAGAATGTGATATCCTTCCCTTGAAGCTGCTTGTGCCCGGTGTCGCAAGTCTTGATGT
CTACCTGCCCTGGTTATTGACTACTTCCAGAGCCAGATTAACCCCAAAGCCATCTGCAATCATGTAGGC
CTGTGCCACGTGGCAGGCTAAGCCAGAACAAGATCCAGGGATGCCGGATGCCGTTCCAAACCCCTGTC
TGGACAAGCTGGTCTCCTGTGCTGCCAGGAGCCCTCTTGGCAAGGCCTGGGCCTCACACTCAGGACTT
CTCTGAGCAACAGCTCCCCATTCCCCTGCCCTTCTGCTGGCTTTCGAGAAGCTGATCAAGCGGGTTCAA
GCCGTGATCCCCAAGGGTGTGCTGGCTGTGCTGCCAGGTGTGCCAGTGGTACCCCTGGTGGTGG
GTGGCATCTGCCAGTGCCTGGCTGAGCGCTACACAGTTCTCTGCTAGACGCACTGCTGGGCCGTGGT
GCCCCAGCTAGTCTGTGGCCTTGTCTCCGATGTTCCACTGAGGATGCCATGGGCCCTGCCCTCCCTGCT
GTGGAGCCTCTGATAGAAGAATGGCCACTACAGGACACTGAGTGCCATTTCTGCAAGTCTGTGATCAACC
AGGCCTGGAACACCAGTGAACAGGCTATGCCACAGGCAATGCACCAGGCCTGCCTTCGCTTCTGGCTAGA
CAGGCAAAAGTGTGAACAGTTTGTGGAACAGCACATGCCCCAGCTGCTGGCCCTGGTGCCTAGGAGCCAG
GATGCCACATCACCTGCCAGGCCCTTGGCGTATGTGAGGCCCGGCTAGCCCTCTGCAGTGCTTCCAAA
CCCCACACCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR226883 representing NM_147779
Red=Cloning site Green=Tags(s)

MAKSHLLQWLLLLPTLCCPGAAITSASSLECAQGPQFQCQSLQEHAVQCRALGHCLQEYVWGHAGANDLCQE
 CEDIVHLLTKMTKEDAFQEAIRKFLQEQCDILPLKLLVPCRQVLDVYLPLVIDYFQSQINPKAICNHVG
 LCPRGQAKPEQNPMPDAVPNPLLDKLVLPVLPGALLARPGPHTQDFSEQQLPIPLPFCWLCRTL I KRVQ
 AVIPKGVLA VAVSQVCHVVPLVVGIGCQCLAERYTVLLLDALLGRVVPQLVCGLVLRCTEDAMGPALPA
 VEPLIEEWPLQDTECHFCKSVINQAWNTSEQAMPQAMHQA CLRFWLD RQKCEQFVEQHMPQLLALVPRSQ
 DAHITCQALGVCEAPASPLQCFQTPHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9008_d02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_147779

ORF Size: 1131 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.

RefSeq: [NM_147779.1](#), [NP_680088.1](#)

RefSeq Size: 1887 bp

RefSeq ORF: 1134 bp

Locus ID: 20388

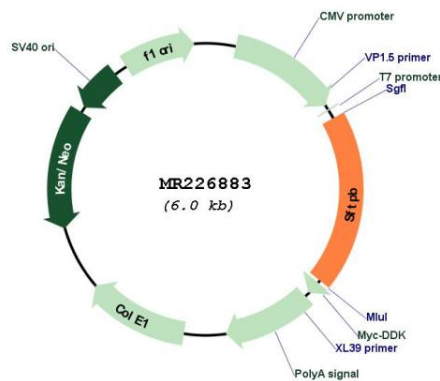
UniProt ID: [P50405](#)

Cytogenetics: 6 32.27 cM

MW: 57.3 kDa

Gene Summary: Pulmonary surfactant-associated proteins promote alveolar stability by lowering the surface tension at the air-liquid interface in the peripheral air spaces. SP-B increases the collapse pressure of palmitic acid to nearly 70 millinewtons per meter.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226883