

Product datasheet for **MR229452**

Sftpb (NM_001282071) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sftpb (NM_001282071) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sftpb
Synonyms: A1562151; SF-B; Sftp-3; Sftp3; SP-B
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229452 representing NM_001282071
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCAAGTCGCACCTACTGCAGTGGCTACTGCTGCTTCTACCTCTGCTGCCAGGTGCAGCTATCA
CGTCGGCCTCATCCCTGGAGTGTGCACAAGGCCCTCAATTCTGGTGCCAAAGCCTGGAGCATGCAGTGA
GTGCAGAGCCCTGGGGCACTGCCTGCAGGAAGTCTGGGGCATGCAGGAGCTAATGACCTGTGCCAAGAG
TGTGAGGATATTGTCCACCTCCTCACAAGATGACCAAGGAAGATGCTTTCCAGGAAGCAATCCGGAAGT
TCCTGGAACAAGAATGTGATATCCTTCCCTTGAAGCTGCTTGTGCCCCGGTGTGCGCAAGTGCTTGATGT
CTACCTGCCCCTGGTTATTGACTACTTCCAGAGCCAGATTAACCCCAAAGCCATCTGCAATCATGTGGGC
CTGTGCCACGTGGGCAGGCTAAGCCAGAACAGAATCCAGGGATGCCGGATGCCGTTCCAAACCCTCTGC
TGGACAAGCTGGTCCCTGTGCTGCCAGGAGCCCTCTGGCAAGGCCTGGCCCTCACACTCAGGACTT
CTCTGAGCAACAGCTCCCCATCCCTGCCCTTCTGCTGGCTTTGCAGAACTCTGATCAAGCGGGTTCAA
GCCGTGATCCCCAAGTGCCTGGCTGAGCGCTACACAGTTCTCTGCTAGACGCACTGCTGGGCCGTGTGG
TGCCCCAGCTAGTCTGTGGCCTTGTCCCTCGATGTTCCACTGAGGATGCCATGGGCCCTGCCCTCCCTGC
TGTGGAGCCTCTGATAGAAGAATGGCCACTACAGGACACTGAGTGCCATTCTGCAAGTCTGTGATCAAC
CAGGCCTGGAACACCAAGTGAACAGGCTATGCCACAGGCAATGCACCAGGCCTGCCTTCGCTTCTGGCTAG
ACAGGCCAAAAGTGTGAACAGTTTGTGGAACAGCACATGCCCCAGCTGCTGGCCCTGGTGCCTAGGAGCCA
GGATGCCACATCACCTGCCAGGCCCTTGGCGTATGTGAGGCCCGGCTAGCCCTCTGCAGTGCTTCCAA
ACCCACACCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229452 representing NM_001282071
 Red=Cloning site Green=Tags(s)

MAKSHLLQWLLLLPTLCCPGAITSASSLECAQGPQFQCQSLEHAVQCRA LGHCLQE VVGHAGANDLCQE
 CEDIVHLLTKMTKEDAFQEAIRKFLQECDILPLKLLVPCRQVLDVYLPLVIDYFQSQINPKAICNHVG
 LCPRGQAKPEQNPMPDAVPNLLDKLVLPVLPGALLARPGPHTQDFSEQQLPIPLPFCWLCRTL I KRVQ
 AVIPKCLAERYTVLLLDALLGRVVPQLVCGLVLCSTEDAMGPALPAVEPLIEEWPLQDTECHFCKSVIN
 QAWNTSEQAMPQAMHQA CLRFWLDRQKCEQFVEQHMPQLLALVPRSQDAHITCQALGVCEAPASPLQCFQ
 TPHL

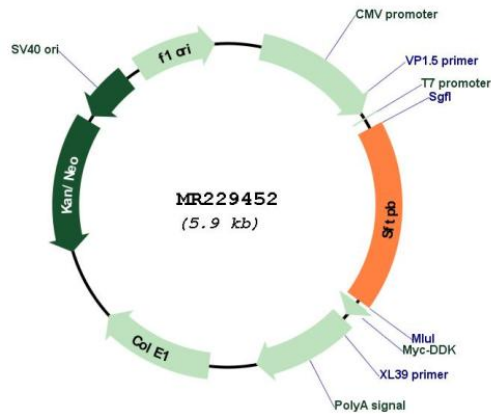
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282071

ORF Size:	1062 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:	<ol style="list-style-type: none">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_001282071.2 , NP_001269000.1
RefSeq Size:	1492 bp
RefSeq ORF:	1065 bp
Locus ID:	20388
Cytogenetics:	6 32.27 cM
MW:	39.9 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]