

Product datasheet for **MG226883**

Sftpb (NM_147779) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sftpb (NM_147779) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Sftpb
Synonyms: AI562151; SF-B; Sftp-3; Sftp3; SP-B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG226883 representing NM_147779
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAAGTCGCACCTACTGCAGTGGCTACTGCTGCTTCTACCTCTGCTGCCAGGTGCAGCTATCA
 CGTCGGCCTCATCCCTGGAGTGTGCACAAGGCCCTCAATTCTGGTGCCAAAGCCTGGAGCATGCAGTGA
 GTGCAGAGCCCTGGGGCACTGCCTGCAGGAAGTCTGGGGCATGCAGGAGCTAATGACCTGTGCCAAGAG
 TGTGAGGATATTGTCCACCTCCTCACAAGATGACCAAGGAAGATGCTTCCAGGAAGCAATCCGGAAGT
 TCCTGGAACAAGAATGTGATATCCTTCCCTTGAAGCTGCTTGTGCCCGGTGTCGCAAGTCTTGATGT
 CTACCTGCCCCTGGTTATTGACTACTTCCAGAGCCAGATTAACCCCAAAGCCATCTGCAATCATGTAGGC
 CTGTGCCACGTTGGCAGGCTAAGCCAGAACAGAAATCCAGGGATGCCGGATGCCGTTCCAAACCCCTGTC
 TGGACAAGCTGGTCTCCTGTGCTGCCAGGAGCCCTCTTGGCAAGGCCTGGGCCTCACACTCAGGACTT
 CTCTGAGCAACAGCTCCCCATTCCCCTGCCCTTCTGCTGGCTTTGCAGAACTCTGATCAAGCGGGTTCAA
 GCCGTGATCCCCAAGGGTGTGCTGGCTGTGGCTGTGCCAGGTGTGCCACGTGGTACCCCTGGTGGTGG
 GTGGCATCTGCCAGTGCCTGGCTGAGCGCTACACAGTTCTCTGCTAGACGCACTGCTGGGCCGTGGT
 GCCCAGCTAGTCTGTGGCCTTGTCTCCGATGTTCCACTGAGGATGCCATGGGCCCTGCCCTCCCTGCT
 GTGGAGCCTCTGATAGAAGAATGGCCACTACAGGACACTGAGTGCCATTTCTGCAAGTCTGTGATCAACC
 AGGCCTGGAACACCAGTGAACAGGCTATGCCACAGGCAATGCACCAGGCCTGCCTTCGCTTCTGGCTAGA
 CAGGCAAAAGTGTGAACAGTTTGTGGAACAGCACATGCCCCAGCTGCTGGCCCTGGTGCCTAGGAGCCAG
 GATGCCACATCACCTGCCAGGCCCTTGGCGTATGTGAGGCCCGGCTAGCCCTCTGCAGTGCTTCCAAA
 CCCACACCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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:	<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_147779.1 , NP_680088.1
RefSeq Size:	1887 bp
RefSeq ORF:	1134 bp
Locus ID:	20388
UniProt ID:	P50405
Cytogenetics:	6 32.27 cM
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]