

## Product datasheet for MR205806

### Sftpd (NM\_009160) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sftpd (NM_009160) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sftpd
Synonyms:	A1573415; Sfpd; Sftp4; SP-D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205806 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGCCCTTTCTCCATGCTTGTCTTGTACAGCCCCTGGGAAATCTGGGAGCAGAAATGAAGA  
GCCTCTCGCAGAGATCAGTACCCAACACCTGCACCCTAGTCATGTGTAGCCCAACAGAGAATGGCCTGCC  
TGGTCGTGATGGACGGGATGGGAGAGAAGGTCCACGGGGTGAAGGGTATCCAGGTTTCCAGGACCT  
ATGGGGCTCTCAGGGTTCAGGGCCCTACAGTCCAGTTGGACCCAAAGGAGAGAATGGCTCTGCTGGC  
AACCTGGACCAAAGGGAGAACGTGGACTAAGTGGACCTCCAGGACTTCCAGGTATTCCTGGTCCAGCTGG  
GAAAGAAGGTCCCTCTGGGAAGCAGGGGAACATAGGACCTCAAGGCAAACAGGTCTAAAGGAGAGGCT  
GGGCCCAAAGGAGAAGTAGGTGCTCCTGGCATGCAAGGATCTACAGGGGCAAAGGCTCCACAGGCCCA  
AGGGAGAAAGAGGTGCCCTGGTGTGCAAGGAGCCCCAGGGAATGCTGGAGCAGCAGGACCTGCCGACC  
TGCCGGTCCACAGGGAGCTCCAGGTTCCAGGGGGCCCCAGGACTCAAGGGGGACAGAGGTTCCTGGA  
GACAGAGGAATCAAAGGTGAAAGCGGGCTTCCAGACAGTGTCTGCTGAGGCAGCAGATGGAGGCCTTAA  
AAGGAAAACACAGCGTCTAGAGGTTGCCTTCTCCACTATCAGAAAGCTGCATTGTTCCCTGATGGCCG  
AAGTGTGGAGACAAGATCTTCAGGACAGCAGACTCTGAAAAGCCTTTTGAGGATGCCCAGGAGATGTGC  
AAACAGGCTGGAGGACAGCTGGCCTCCCCAGTTCTGCTACTGAGAATGCTGCCATACAGCAACTCATCA  
CAGCCCACAACAAGGCTGCTTTCCTGAGTATGACAGATGTGGGCACAGAGGGCAAGTTCACTTACCCAC  
AGGAGAGCCCCTGGTCTATTCTAATTGGCTCCAGGGGAGCCCAACAACAATGGTGGAGCAGAGAATGT  
GTGGAGATCTTACCAATGGGCAATGGAATGATAAGGCTTGTGGAGAGCAGCGCCTTGTATCTGTGAGT  
TC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205806 protein sequence  
Red=Cloning site Green=Tags(s)

MLPFLSMLVLLVQPLGNLGAEMKSLSQRSVPNTCTLVMCSPTENGLPGRDGRDGREGPRGEKGDPLGPG  
MGLSGLQGPTGPVGPKEGNSAGEPGPKGERGLSGPPGLPGIPGPAGKEGPSKGQNIQPGKPGPKGEA  
GPKGEVGPAGMQGSTGAKGSTGPKGERGAPGVQGAPNAGAAGPAGPAGPQAGPSRGPPLKGDGRVPG  
DRGIKGESGLPDSAALRQQMEALKGKLQRLEVAFSHYQKAALFPDGRSVGDKIFRTADSEKPFEDAQEMC  
KQAGGQLASPRSATENAAIQQLITAHNKAFLSMTDVGTEGKFTYPTGEPLVYSNWAPGEPNNGGAENC  
VEIFTNGQWNDKACGEQRLVICEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009160

**ORF Size:** 1125 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\\_009160.2](#), [NP\\_033186.1](#)

**RefSeq Size:** 1326 bp

**RefSeq ORF:** 1125 bp

**Locus ID:** 20390

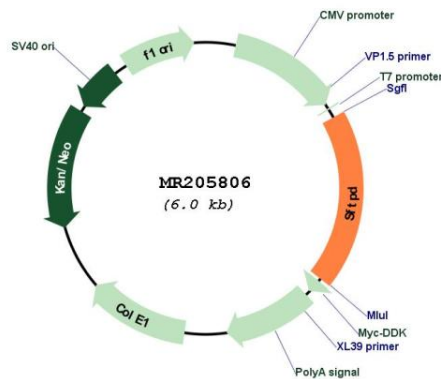
**UniProt ID:** [P50404](#)

**Cytogenetics:** 14 22.36 cM

**MW:** 37.7 kDa

**Gene Summary:** Contributes to the lung's defense against inhaled microorganisms, organic antigens and toxins. Interacts with compounds such as bacterial lipopolysaccharides, oligosaccharides and fatty acids and modulates leukocyte action in immune response. May participate in the extracellular reorganization or turnover of pulmonary surfactant. Binds strongly maltose residues and to a lesser extent other alpha-glucosyl moieties.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205806