

Product datasheet for **MG205806**

Sftpd (NM_009160) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sftpd (NM_009160) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sftpd
Synonyms:	A1573415; Sfpd; Sftp4; SP-D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205806 representing NM_009160 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCCCTTTCTCCATGCTTGTCTTGTACAGCCCCTGGGAAATCTGGGAGCAGAAATGAAGA
GCCTCTCGCAGAGATCAGTACCCAACACCTGCACCCTAGTCATGTGTAGCCCAACAGAGAATGGCCTGCC
TGGTCGTGATGGACGGGATGGGAGAGAAGGTCCACGGGGTGAAGGGTATCCAGGTTTCCAGGACCT
ATGGGGCTCTCAGGGTTCAGGGCCCTACAGGTCCAGTTGGACCCAAAGGAGAGAATGGCTCTGCTGGC
AACCTGGACCAAAGGGAGAACGTGGACTAAGTGGACCTCCAGGACTTCCAGGTATTCCTGGTCCAGCTGG
GAAAGAAGGTCCCTCTGGGAAGCAGGGGAACATAGGACCTCAAGGCAAACAGGTCCTAAAGGAGAGGCT
GGGCCCAAAGGAGAAGTAGGTGCTCCTGGCATGCAAGGATCTACAGGGGCAAAGGCTCCACAGGCCCA
AGGGAGAAAGAGGTGCCCTGGTGTGCAAGGAGCCCCAGGGAATGCTGGAGCAGCAGGACCTGCCGACC
TGCCGGTCCACAGGGAGCTCCAGGTTCCAGGGGGCCCCAGGACTCAAGGGGGACAGAGGTTCCTGGA
GACAGAGGAATCAAAGGTGAAAGCGGGCTTCCAGACAGTGTCTGCTGAGGCAGCAGATGGAGGCCCTAA
AAGGAAAACACAGCGTCTAGAGGTTGCCTTCTCCACTATCAGAAAGCTGCATTGTTCCCTGATGGCCG
AAGTGTGGAGACAAGATCTTCAGGACAGCAGACTCTGAAAAGCCTTTTGAGGATGCCAGGAGATGTGC
AAACAGGCTGGAGGACAGCTGGCCTCCCCAGTTCTGCTACTGAGAATGCTGCCATACAGCAACTCATCA
CAGCCCACAACAAGGCTGCTTTCCTGAGTATGACAGATGTGGGCACAGAGGGCAAGTTCACCTACCCAC
AGGAGAGCCCCTGGTCTATTCTAATTGGCTCCAGGGGAGCCCAACAACAATGGTGGAGCAGAGAACTGT
GTGGAGATCTTACCAATGGCAATGGAATGATAAGGCTTGTGGAGAGCAGCGCCTTGTATCTGTGAGT
TC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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 Red=Cloning site Green=Tags(s)

MLPFLSMLVLLVQPLGNLGAEMKSLSQRSVPNTCTLMCSPTENGLPGRDGRDGRGREGPRGEKGDPLPGP
 MGLSGLQGPTGPVGPKEGNSAGEPGPKGERGLSGPPGLPGIPGPAGKEGPSGKQGNIGPQKPGPKGEA
 GPKGEVGPAGMQGSTGAKGSTGPKGERGAPGVQGAPNAGAAGPAGPAGPQGAPGSRGPPGLKGDGRVPG
 DRGIKGESGLPDSAALRQQMEALKGKLQRLEVAFSHYQKAALFPDGRSVGDKIFRTADSEKPFEDAQEMC
 KQAGGQLASPRATENAAIQQLITAHNKAAFLSMTDVGTEGKFTYPTGEPLVYSNWAPGEPNNGGAENC
 VEIFTNGQWNDKACGEQRLVICEF

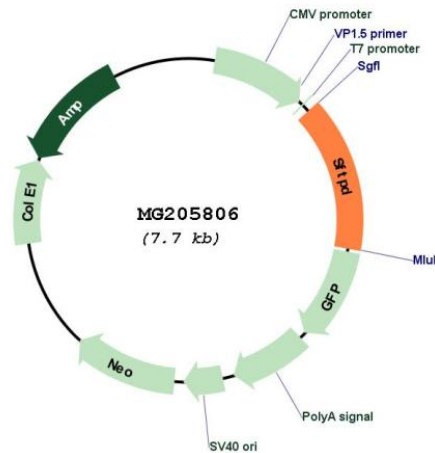
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009160

ORF Size:	1323 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_009160.2 , NP_033186.1
RefSeq Size:	1288 bp
RefSeq ORF:	1125 bp
Locus ID:	20390
UniProt ID:	P50404
Cytogenetics:	14 22.36 cM
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]