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Product datasheet for MC227241

Sftpb (NM_001282071) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sftpb (NM_001282071) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sftpb
Synonyms:	AI562151; SF-B; Sftp-3; Sftp3; SP-B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC227241 representing NM_001282071 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCAAGTCGCACCTACTGCAGTGGCTACTGCTGCTTCCTACCCTCTGCTGCCCAGGTGCAGCTATCA CGTCGGCCTCATCCCTGGAGTGTGCACAAGGCCCTCAATTCTGGTGCCAAAGCCTGGAGCATGCAGTGCA GTGCAGAGCCCTGGGGCACTGCCTGCAGGAAGTCTGGGGGCATGCAGGAGCTAATGACCTGTGCCAAGAG TGTGAGGATATTGTCCACCTCCTCACAAAGATGACCAAGGAAGATGCTTTCCAGGAAGCAATCCGGAAGT TCCTGGAACAAGAATGTGATATCCTTCCCTTGAAGCTGCTTGTGCCCCGGTGTCGCCAAGTGCTTGATGT CTACCTGCCCCTGGTTATTGACTACTTCCAGAGCCAGATTAACCCCAAAGCCATCTGCAATCATGTGGGC CTGTGCCCACGTGGGCAGGCTAAGCCAGAACAGAATCCAGGGATGCCGGATGCCGTTCCAAACCCTCTGC TGGACAAGCTGGTCCTCCCTGTGCTGCCAGGAGCCCTCTTGGCAAGGCCTGGGCCTCACACTCAGGACTT CTCTGAGCAACAGCTCCCCATTCCCCTGCCCTTCTGCTGGCTTTGCAGAACTCTGATCAAGCGGGTTCAA GCCGTGATCCCCAAGTGCCTGGCTGAGCGCTACACAGTTCTCCTGCTAGACGCACTGCTGGGCCGTGTGG TGCCCCAGCTAGTCTGTGGCCTTGTCCTCCGATGTTCCACTGAGGATGCCATGGGCCCTGCCCTCCCTGC TGTGGAGCCTCTGATAGAAGAATGGCCACTACAGGACACTGAGTGCCATTTCTGCAAGTCTGTGATCAAC CAGGCCTGGAACACCAGTGAACAGGCTATGCCACAGGCAATGCACCAGGCCTGCCTTCGCTTCTGGCTAG ACAGGCAAAAGTGTGAACAGTTTGTGGAACAGCACATGCCCCAGCTGCTGGCCCTGGTGCCTAGGAGCCA GGATGCCCACATCACCTGCCAGGCCCTTGGCGTATGTGAGGCCCCGGCTAGCCCTCTGCAGTGCTTCCAA ACCCCACACCTCTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001282071

Insert Size:	1065 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001282071.2, NP_001269000.1
RefSeq Size:	1492 bp
RefSeq ORF:	1065 bp
Locus ID:	20388
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] Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region and an alternate splice site in the 3' UTR, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.