

Product datasheet for MR203753

Bpifa1 (NM_011126) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bpifa1 (NM_011126) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bpifa1
Synonyms:	LUNX; NASG; Plunc; SPLUNC1; SPURT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203753 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTTCTAGTTGGGAGCCTCGTTGTCCTCTGTGGGCTGCTGGCCACAGCACAGCACAGCTGGCAGGCT
TGCCATTGCCCTGGGCCAGGTCACCCTTGCCACTGAACCAGGGCCACCGTTGCCACTGAACCAGGG
CCAGCTGTTGCCCTGGCTCAGGCTGCCTTTGGCTGTAAGCCAGCACTGCCTTCAAATCCCACAGAT
CTTCTTGCTGAAAATTCACAGATGCTCTCAGCGGTGGCCTGCTGTCTGGGGGGCTGCTGGGCATTTGG
AAAATATCCACTCCTGGATGTTATAAAGTCTGGAGGAGCAATTCTAATGGCCTTGTTGGGGCCCTGCT
GGGAAAATGACGTCATCAGTTCCTCTCCTGAACAACATCCTCGACATAAAAATCACTGATCCGCAGCTG
CTAGAACTGGTCTTGTCAGAGTCCTGATGGCCATCGTCTCTATGTCACCATCCCTCTGGGCTTGACAC
TCAACGTAATATGCCCGTAGTTGGAAGTCTTTTGCAATTGGCTGTGAAGCTGAACATTACTGCAGAAGT
CTTAGCCGTGAAAGACAATCAGGGGAGGATTCATCTGGTCTTGGTGACTGCACCCACTCCCCTGGCAGC
CTGAAAATCAGCTTGCTCAATGGAGTCACTCCTGTTCAAAGCTTTTTAGACAACCTCACAGGGATATTGA
CTAAAGTCCTTCTGAGCTGATCCAGGGCAAGGTATGTCCTCTGGTCAATGGGATTCAGCGGTTTGA
TGTCACCCTGGTGACAACATTGCTGAATTACTGATCCATGGACTACAGTTTGTCAATCAAAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203753 protein sequence
Red=Cloning site Green=Tags(s)

MFLVGSLLVLCGLLAHSTAQLAGLPLPLGQGPPLPLNQGPPLPLNQQLLPLAQGLPLAVSPALPSNPTD
 LLAGKFTDALSGLLSGLLGILENIPLLDVIKSGGNSNGLVGGLLGKLTSSVPLLNNILDIKITDPQL
 LELGLVQSPDGHRLYVTIPLGLTLNVNMPVVGSLQLAVKLNITAEVLAVKDNQGRHILVLDCTHSPGS
 LKISLLNGVTPVQSFLDNLTGILTKVLELIQGVCPVNGILSGLDVTLVHNIPELLIHLQFVIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011126

ORF Size: 837 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_011126.3](#)

RefSeq Size: 1109 bp

RefSeq ORF: 837 bp

Locus ID: 18843

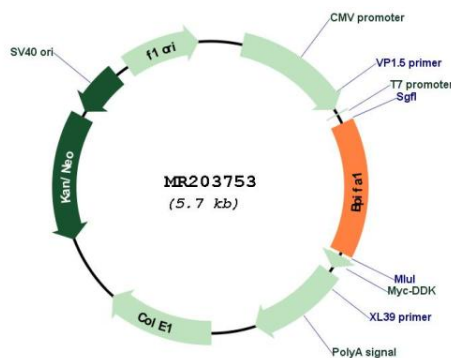
UniProt ID: [P97361](#)

Cytogenetics: 2 H1

MW: 28.6 kDa

Gene Summary: Lipid-binding protein which shows high specificity for the surfactant phospholipid dipalmitoylphosphatidylcholine (DPPC) (By similarity). Plays a role in the innate immune responses of the upper airways (PubMed:23499554). Reduces the surface tension in secretions from airway epithelia and inhibits the formation of biofilm by pathogenic Gram-negative bacteria, such as *P.aeruginosa* and *K.pneumoniae* (PubMed:23499554). Negatively regulates proteolytic cleavage of SCNN1G, an event that is required for activation of the epithelial sodium channel (ENaC), and thereby contributes to airway surface liquid homeostasis and proper clearance of mucus (By similarity). Plays a role in the airway inflammatory response after exposure to irritants (By similarity). May attract macrophages and neutrophils (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203753