

## Product datasheet for **MG203753**

### **Bpifa1 (NM\_011126) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Bpifa1 (NM\_011126) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Bpifa1  
**Synonyms:** LUNX; NASG; Plunc; SPLUNC1; SPURT  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG203753 representing NM\_011126  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTTTCTAGTTGGGAGCCTCGTTGTCCTCTGTGGGCTGCTGGCCACAGCACAGCACAGCTGGCAGGCT  
 TGCCATTGCCCTGGCCAGGGTCCACCCTTGCCACTGAACCAGGGCCACCGTTGCCACTGAACCAGGG  
 CCAGCTGTTGCCCTGGCTCAGGGTCTGCCTTTGGCTGTAAGCCAGCACTGCCTTCAAATCCCACAGAT  
 CTTCTTGCTGAAAATTCACAGATGCTCTCAGCGTGGCCTGCTGTCTGGGGGGTCTGGGCATTTTGG  
 AAAATATCCACTCCTGGATGTTATAAAGTCTGGAGGAGCAATTCTAATGGCCTTGTTGGGGCCCTGCT  
 GGGAAAATGACGTCATCAGTTCCTCTCCTGAACAACATCCTCGACATAAAAATCACTGATCCGCAGCTG  
 CTAGAACTGGTCTTGTCAGAGTCCTGATGGCCATCGTCTCTATGTCACCATCCCTCTGGGCTTGACAC  
 TCAACGTAATATGCCCGTAGTTGGAAGTCTTTTGAATTGGCTGTGAAGCTGAACATTACTGCAGAAGT  
 CTTAGCCGTGAAAGACAATCAGGGGAGGATTCATCTGGTCTTGGTGACTGCACCCACTCCCCTGGCAGC  
 CTGAAAATCAGCTTGCTCAATGGAGTCACTCCTGTTCAAAGCTTTTGTAGACAACCTCACAGGGATATTGA  
 CTAAGTCCTTCTGAGCTGATCCAGGGCAAGGTATGTCCTCTGGTCAATGGGATTCTCAGCGTTTGGGA  
 TGTCACCCTGGTGACAACATTGCTGAATTACTGATCCATGGACTACAGTTTGTCAAAAGT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >MG203753 representing NM\_011126  
 Red=Cloning site Green=Tags(s)

MFLVGSLLVLCGLLAHSTAQLAGLPLPLGQGPPLPLNQGPPLPLNQQLLPLAQGLPLAVSPALPSNPTD  
 LLAGKFTDALSGLLSGLLGILENIPLLDVIKSGGNSNGLVGLLGKLTSSVPLLNILDIKITDPQL  
 LELGLVQSPDGHRLYVTIPLGLTLNVNMPVVGSLQLAVKLNITAEVLAVKDNQGRHILVLGDCTHSPGS  
 LKISLLNGVTPVQSFLDNLTGILTKVLELIQGVKVCPLVNGILSGLDVTLVHNI AELLIHGLQFVIKV

TRTRPLE - GFP Tag - V

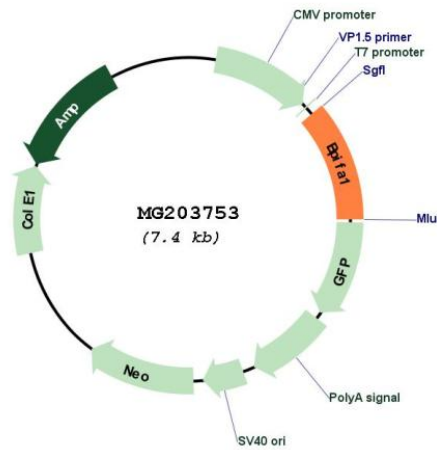
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_011126

**ORF Size:** 834 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_011126.3</a>
<b>RefSeq Size:</b>	1113 bp
<b>RefSeq ORF:</b>	837 bp
<b>Locus ID:</b>	18843
<b>UniProt ID:</b>	<a href="#">P97361</a>
<b>Cytogenetics:</b>	2 H1
<b>Gene Summary:</b>	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]