

## Product datasheet for **RN217004**

### **Bpifb4 (NM\_001109209) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bpifb4 (NM_001109209) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Bpifb4
Synonyms:	Lplunc4; RY2G5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN217004 representing NM\_001109209  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGACTGCTTGGTGTGTGGCAGCTCTGTCACTGGCAGCTGTGTGGCATCCGTC AAGACACAACCA  
 CAGTCCTCCGAGTTACAAAAGATGTGCTGGGCGATGCCATCTCAGGCACAATTCAGAAGAGTGACGCCTT  
 CCGCTCCGCCCTGAGGGAGGTGCCCGTGGTGTGGTGTCCCTACAACGACTTCCATGTCCGAGAG  
 CCTCCCCCAAATACACCAATGGCAGACAGCTTGGTGGCAATTACAAAACGAGTACATTGAGGCGAATG  
 ACAACACAGCTCAGCTGGGGGGCAAATACCCTATGGGGAGATCCTGGACTCTGATGGGAGCCTCAGGGA  
 CCTGCGGCACGAAGACTACCGTCTTCCAGACTCTGCTACCACCGCGGCCCGGGAGGTACAGGTCTGCA  
 GCGGACCCGTCCTCGGCGGCAGGCTCCACCGCGCGAAGTGGAGCTGGAGAGATCCCAGCTGGTGTGG  
 CCACTGGAGCACTGGGCCCGGAGGCTGCTGGGCACTGGGGCATACTTGCAAACGAAGGCATTCTGGC  
 AGGCCAAGGGGGTCTGTTGGAGGAGGCGGTCTTCTGGAGATGGAGGACTTCTCGGAGGAGGTGGTGTG  
 CTGGTGTGCTGGGTGAAGGAGGTATCCTGAGCACCGTCCAAGGCATCACTGGGTGGCGATCGTGGAAC  
 TTACCCTCCCGGGTGTCTGTGAGACTCCTGCCCGGTGTGGGTGTCTATCTGAGCTTGTACACTCGTGT  
 GGCCATCAATGGAAGAGCCTCATTGGCTTCTGGATATTGCACTGGAGGTTAACATCACCGCAAAGTT  
 CGGCTGACCATGGACCGCACAGGCTACCGCGGCTGGTCACTGAGCGCTGTGACACCCTCCTGGGAGGCA  
 TCAAAGTCAAGCTGCTTCGGGGGCTTCTCCCAACCTGGTGGATAACTTAGTGAACCGAGTGTGGCCAA  
 CGTACTCCCTGACCTGCTCTGCCATTGTGGATGTGGTTTTGGTCTTGTCAATGACCAGCTGGGTCTC  
 GTGGACTCTTTGGTGCCTCTCGGAATACTTGGGAGTGTGCAATACACTTCTCCAGCCTCCCACTGGTGA  
 CCGGGGAGTTCTTGGTGGACCTTAATACTCTAGTTGGGAGGAGGAGGTGACCTCATTGACTACCC  
 CCTGGGCGGCCAGCTATGTTGCCAGGCCACAGATGCCAGAAGTACCCCATGGGCGACAACACCAAC  
 TCCAGCTGGCCATCTCGGCCAATTTCTGAGCTCGGTGCTGACCATGCTGCAGAAGCAAGTGCATTGG  
 ACATAGACATCACTGATGGCATGTTGAAGATCTCCCTCCACTTACCCTTCCACATTGGGGCCTTGTAT  
 TCCCAAGGTGTTCCAGCAATACCCTGAGTCCCGCCACTCACCATCAGGATCCAGGTGCCCAACCCCA  
 ACTGTGACCCTGCAGAAGGACAAGGCACTGGTGAAGGTGTTTGCACCTCTGAAGTTGTCGCTCTCCAGC  
 CTAATGATGTGGAGACCACCATCTGCCTCATCGATGTGGACACAGACCTTGGCTTCATTTCTGTGGA  
 AGGGGATAAGCTCATGATCGATGCCAAGCTGGATAAGACCAGCCTCAACCTCAGAACCTCAAACGTGGGC  
 AACTTTGATGTGTTTCATCTTGGAAATGTTGGTTGAGAAGATCTTTGACCTAGCGTTTATGCCCGCAATGA  
 ATGCTATACTGGGTTCTGGAGTCCCTCTGCCCAAATCCTCAACATTGACTTCAGCAACGCCGACATCGA  
 CGTGTGGAGGACCTTCTGGTGTGAGCAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001109209
- Insert Size:** 1854 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\\_001109209.2](#), [NP\\_001102679.2](#)

**RefSeq Size:** 2100 bp

**RefSeq ORF:** 1854 bp

**Locus ID:** 499925

**UniProt ID:** [Q05704](#)

**Cytogenetics:** 3q41

**Gene Summary:** May have the capacity to recognize and bind specific classes of odorants. May act as a carrier molecule, transporting odorants across the mucus layer to access receptor sites. May serve as a primary defense mechanism by recognizing and removing potentially harmful odorants or pathogenic microorganisms from the mucosa or clearing excess odorant from mucus to enable new odorant stimuli to be received (By similarity).[UniProtKB/Swiss-Prot Function]