

## Product datasheet for **RG214755**

### **C20orf186 (BPIFB4) (NM\_182519) Human Tagged ORF Clone**

#### **Product data:**

|                                  |                                      |
|----------------------------------|--------------------------------------|
| <b>Product Type:</b>             | Expression Plasmids                  |
| <b>Tag:</b>                      | TurboGFP                             |
| <b>Symbol:</b>                   | C20orf186                            |
| <b>Synonyms:</b>                 | C20orf186; dJ726C3.5; LPLUNC4; RY2G5 |
| <b>Mammalian Cell Selection:</b> | Neomycin                             |
| <b>Vector:</b>                   | pCMV6-AC-GFP (PS100010)              |
| <b>E. coli Selection:</b>        | Ampicillin (100 ug/mL)               |



**ORF Nucleotide Sequence:** >RG214755 representing NM\_182519  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGTGGATGGCCTGGTGTGTGGCTGCGCTGTCTGTGGTGGCTGTGTGTGGCACCAGCCACGAGACAAACA  
 CGGTCTCAGGGTGACGAAAGATGTGTTGAGCAATGCCATTTTCAGGCATGCTGCAGCAAAGTGATGCTCT  
 CCACTCGGCCCTGAGAGAGGTGCCCTTGGGTGTTGGTGATATTCCTACAATGACTTCCATGTCCGAGGA  
 CCCCCCAGTATATACCAACGGCAAAAACTTGATGGTATTTACCAAGTATGGTCACATTGAGACCAACG  
 ACAACATGCTCAGCTGGGGGGCAAATACCGATATGGTGAGATCCTTGAAGTCCGAGGGAAGCATCAGGGA  
 CCTCCGAAACAGTGGCTATCGCAGTGCCGAGAAATGCATATGGAGGCCACAGGGGCTCGGGCGATACAGG  
 GCAGCACCTGTGGGCGAGCTTACCGGCGAGAGCTGCAGCCTGGAGAAATCCCACCTGGAGTTGCCACTG  
 GGGCGGTGGGCCAGGTGGTTTGTGGCACTGGAGGCATGCTGGCAGCTGATGGCATCCTCGCAGGCCA  
 AGGTGGCCTGCTCGGGGAGGTGGTCTCTTGGTGATGGAGGACTTCTTGGAGGAGGGGTGCTCGGGC  
 GTGCTCGGCAGGGTGGCATCCTCAGCACTGTGCAAGGCATCACGGGGCTGCGTATCGTGGAGCTGACCC  
 TCCCTCGGGTGTCCGTGCGGCTCCTGCCCGGCTGGGTGTCTACCTGAGCTTGTACACCCGTGTGGCCAT  
 CAACGGGAAGAGTCTTATTGGCTTCTGGACATCGCAGTAGAAGTGAACATCACAGCCAAGTCCGGCTG  
 ACCATGGACGCGACGGTTATCCTCGGCTGGTCAATTGAGCGATGTGACACCTCCTAGGGGGCATCAAAG  
 TCAAGCTGCTGCGAGGGCTTCTCCCAATCTCGTGGACAATTTAGTGAACCGAGTCTGCGCCGACGTCCT  
 CCCTGACTTGTCTGCCCCATCGTGGATGTGGTGTGGTCTTGTCAATGACCAGCTGGGCTCGTGGAT  
 TCTCTGATTCTCTGGGATATTGGGAAGTGTCCAGTACACCTTCTCCAGCCTCCCGCTTGTGACCGGGG  
 AATTCTGGAGCTGGACCTCAACACGCTGGTTGGGAGGCTGGAGGAGGACTCATCGACTACCCATTGGG  
 GTGGCCAGCTGTGTCTCCAAGCCGATGCCAGAGCTGCCTCCCATGGGTGACAAACCAAGTCCCAGCTG  
 GCCATGTCTGCCAACTTCTGGGCTCAGTGTGACTCTACTGCAGAAGCAGCATGCTCTAGACCTGGATA  
 TCACCAATGGCATGTTTGAAGAGCTTCTCCACTTACCACAGCCACACTGGGAGCCCTGATCCCCAAGGT  
 GTTCCAGCAGTACCCGAGTCTGCCCACTTATCATCAGGATCCAGGTGCTGAACCCACCATCTGTGATG  
 CTGCAGAAGGACAAAGCGCTGGTGAAGGTGTTGGCCACTGCCGAGGTGATGGTCTCCAGCCCAAGAGAC  
 TGGAGACTACCATCTGCCTCATTGACGTGGACACAGAATTCTTGGCCTCATTTTCCACAGAAGGAGATAA  
 GCTCATGATTGATGCCAAGCTGGAGAAGACCAGCCTCAACCTCAGAACCTCAAACGTGGGCAACTTTGAT  
 ATTGGCCTCATGGAGGTGCTGGTGGAGAAGATTTTGGCTGGCATTATGCCCAGCAATGAACGCTGTGC  
 TGGGTCTGGCGTCCCTCTCCCAAAATCCTCAACATCGACTTTAGCAATGCAGACATTGACGTGTTGGA  
 GGACCTTTTGGTGTGAGCGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG214755 representing NM\_182519  
 Red=Cloning site Green=Tags(s)

MMAWCVAALSVVAVCGTSHETNTVLRVTKDVLNAISGMLQQSDALHSALREVPLGVGDIPYNDHFVRG  
 PPPVYNGKKLDGIYQYGHIEITNDNTAQLGGKYRYGEILESEGSIRDLRNSGYRSAENAYGGHRLGRYR  
 AAPVGRHLHRELQPGIIPGVATGAVGPGLLGTGGMLAADGILAGQGGLLGGGGLLDGGGLLGGGVVLG  
 VLGEGGILSTVQGITGLRIVELTLPRVSVRLPGVGYYLSLYTRVAINGKSLIGFLDIAVEVNITAKVRL  
 TMDRTGYPRLVIERCDTLGGIKVKLLRGLLPNLVDNLVNRVLADVLPDLLCPIDVVLGLVNDQLGLVD  
 SLIPLGILGSVQYTFSSPLVTGEFLELDNLVGEAGGGLIDYPLGWPAVSPKPMPELPPMGDNTKSQ  
 AMSANFLGSVLTLLQKQHALDLITNGMFEELPPLTTATLGALIPKVFQYPESCPLIIRIQVLNPPSV  
 LQKDHALVKVLATAEVMVSQPKDLETTICLIDVDTEFLASFSTEGDKLMIDAKLEKTSNLNRTSNVGNF  
 IGLMEVLVEKIFDLAFMPAMNAVLGSGVPLPKILNIDFSNADIDVLEDLVLVLSA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

## Cloning Scheme:



ACCN: NM\_182519

ORF Size: 1842 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

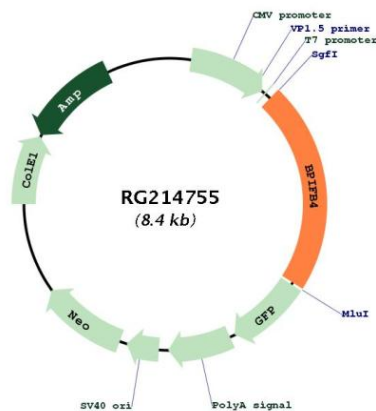
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <u>NM_182519.2, NP_872325.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 2174 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1845 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 149954                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID:</b>            | <u>P59827</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 20q11.21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Families:</b>      | Druggable Genome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Gene Summary:</b>          | 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]                                                       |

## Product images:



Circular map for RG214755