

Product datasheet for **MG214583**

Bpifb4 (NM_001034875) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Bpifb4
Synonyms:	Gm1006; Lplunc4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >MG214583 representing NM_001034875
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTGGACTGCGTGGTGTGGCTGCTCTGTGAGTGGCAGCTGTGTGGTATCCGCCAAGACACAACCA
 CAGTCCTCAGGGTTACAAAAGATGTGCTGGGCAATGCCATCTCAGGCACAATTAGAAAGAGTGACGCCTT
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 CCTCCCCCAAATACACCAATGGCAGACAGCTTGGTGGCAATTACAATATGGTCACATTAAGGCGAAGC
 ACAATAGAGCTCAGCTGGGGGCAAGTACCGCTATGGGGAGATCCTGGACTCCGATGGGAGCCTCAGGGA
 CCTACGGCATGAAGACTACCGTCTCCAGACAGTGCCTACCACCGCGCTCTGGGCGGTACAGATCCGCC
 GCAGACTCATCCTCGTGGGCAAGGCTTACCGGCGCAACTGAGGCTGGAGAGATCCAGCTGGTGTGG
 CCAGTGGGCGCTGGGCCCCGAGGTCTGCTGGGCACAGGGGCATGCTGGCAATGAAGGCATTCTGGC
 AGGCCAAGGGGCTTGGTGGTGGAGTGGTCTTCTGGAGATGGAGGACTTCTGGAGGAGGAGGTGTG
 CTCGGTGTGCTGGTGAAGGAGGCATCCTAAGCACCGTACAAGGCATCACTGGGTTCGCGCATCGTGGAA
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 GGCCATCAACGGAAGGAGCCTCATCGGTTCTGGATATTGCACTGGAGGTAACATCACGGCCAAAGTT
 CGGTGACCATGGACCGCACAGGCTACCCACGGTGGTCAATGAGCGCTGTGACACCTCCTGGGAGGTA
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 CCAACGATGTAGAGACCACTATCTGCCTCATCGATGTGGACACAGACCTTGGCTTCATTTCTGTGGA
 AGGAGATAAGCTCATGATCGACGCCAAGCTGGATAAGACCAGCCTCAACCTCAGAACCTCAAACGTGGGC
 AACTTTGATGTGTTTCTGAAAATGTTGGTTGAGAAGATCTTTGACCTAGCGTTTATGCCTGCAATGA
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 TGTGTTGGAGGACCTTCTGGTGTGAGCACA

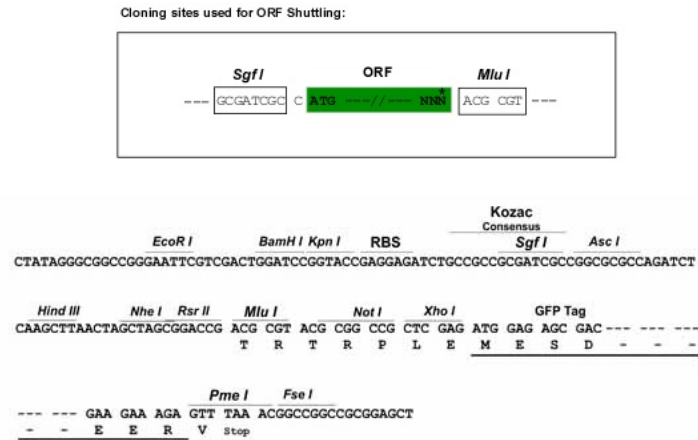
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG214583 representing NM_001034875
 Red=Cloning site Green=Tags(s)

MWTAWCVAAALVAVCGIRQDTTTLVLRVTKDVLGNAISGTIQKSDAFRSALREVPVGVGGVYPYNDHFVRE
 PPPKYTNGRQLGGNYKYGHKANDNRAQLGGKYRYGEILDSDGSLRDLRHEDYRPPDSAYHRGSGRYRSA
 ADSSSVGRLYRRELRPGEIPAGVATGALGPGGLLGTGMLANEGILAGQGGLLGGGGLLGDGGLLGGGGV
 LGVLGEGGILSTVQGITGLRIVELTLPRVSVRLPGVGVYLSLYTRVAINGRSLIGFLDIAVEVNITAKV
 RL TMDRTGYPRLVIERCDLLGGIKVKLLRGLLPNLVDNLVNRVLANVLPDLLCPIVDVVVLGLVNDQLGL
 VDSLVPGLGILGSVQYTFSSLPLVTGEFLELDLNTLVGEAGGDLIDYPLGRPAILPRPQMPPELPPMGDNTN
 SQLAISANFLSSVLTMLQKQGAMDIDITDGMFEDLPPLTTSTLALIPKVFQQYPESRPLTIRIQVNP
 TVTLQKDKALVKVFATSEVVVSQPNVETIICLIDVDTDLLASFVSEGDKLMIDAKLDKTSLNLRTSNNG
 NFDVFIEMLEKIFDLAFMPAMNAILGSGVPLPKILNIDFSNADIDVLEDLLVLS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_001034875

ORF Size: 1851 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.

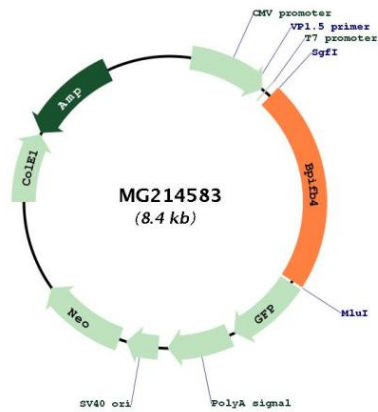
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001034875.3](#), [NP_001030047.2](#)

RefSeq Size: 2115 bp
RefSeq ORF: 1854 bp
Locus ID: 381399
UniProt ID: [A2BGH0](#)
Cytogenetics: 2 H1

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]

Product images:



Circular map for MG214583