

Product datasheet for **MG219864**

Bpi (NM_177850) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bpi (NM_177850) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bpi
Synonyms:	9230105K17Rik; Bpifd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219864 representing NM_177850
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACCTGGGCCCTGACAACGTGCGGAAATGGTCAGCCCTGTTGCTGCTGGCCATCATTGGCACAGCCC
 TGACAGCCGCCACCGACCTGGCTTCGTGGCCATGATCTCCAGAAAGGGTCTGGACTTCGGTGCCAGCA
 GGGAGTGGTTGAGTTGCAGAAGGAGCTACAGGCTATCAGTGTTCCTGACTTCTCTGGGGTCTTTAAGATC
 AAGCACCTGGGAAAGGGTTCCTACGAATCTACAGCATGGCTGTGGATGGATTTCAATTCCTAATCCCA
 AGATCGAGATGCTGCCAGTGTGGCTCCGAGTGTTCATCAAAGATGCCAGCATCAAGATCAATGGAAA
 GTGGATGTCAAGGAAGAACTTCCCAAGGCCGGTGGCAATTTGAACTGAGCATCCAGGGCGTCTCCATC
 TCCACCGACCTGATTCTGGGTAGTGACTCCTCAGGCCACATCACCACCATCTGCTCCAATGCGACAGTC
 ACATTGACAGTGTCCATATCAAATCTCAGGCAGCATGCTGGGGTGGCTGATCCGACTGTCCACAGGAA
 AATTGAGACTTCCCTGAAAAACATCATTACAAAAAGATCTGCAAGATCGTGAGAGACTCTGTGCTCTCC
 AAAGTGCAGCCTTATCTGAAGACCTTTCTGTGATAACCAGAGTGGATGATGTGACCTCGTTGACTACA
 GTCTGCTGGCTCCCTGACAACCACGAACCAGTTCCTGGAGGGGAGCTAAAGGGGGAGTTTTCTGGAG
 GGGACACCGAGACCCACTTCCATTACCCGCCAGTAATGAGGTTTGTGCCAACGGTGCATACATGGTA
 TGCATGGGCATCTCTGACTACTTCTTCAACTGAGGATTTGGCTTACCAACAGTCTGGAACCTTGAAGA
 TGACCTGGGGGGCAACTGTTATCAAATAATGGCAGATTCCAGCTGAACACTGACTTCTTAGGACCTT
 CCTGCCAAGGTGGCCAAGATGTTCCCCAGCATGGGGTGCAGCTGCTCATCTCAGCGCCCGTGCCTGTG
 CCACTGAGCATACAGCCCTCAGGCCTCTCATTCAATCCTAAGCTGGAGACCCAGGCCTTTGTGGTCTCC
 CCAACGCTCCCTGGTCCCTCTTTGTTCTTGGCATGGTAAGAAGGAAAACAAATGCCTTTTGAAGT
 GGATGCTGAGGAGAACAGGCTCGTGGGAGAGATGAAGCTTGGCAGCAGGTGGTTGCTGGAATTTGAAGAA
 TCCAAATTTGGCCCTTTAAGGTGGAGTACCTGGAGGATGTCATAAACTACCTCGTATCCACACTAGTGC
 TGCCCAAGATCAATGAGAGGCTGCGTAGAGGCTTCCCTCTCCCTTTCCTGCTGCTGGGATCCGGTTCAGCCA
 CTTACGTTTTACCCTACCAGAATTTCTGTTGCTTGAAGCGGATTTACACCTTATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219864 representing NM_177850
 Red=Cloning site Green=Tags(s)

MTWAPDNVRKWSALLLLAIIGTALTAATDPGFVAMISQKGLDFACQQGVVELQKELQAI SVPDFSGVFKI
 KHLGKGSYEFYSMAVDGFHIPNPKIEMLPDGLRVFIKDASIKINGKWSRKNFLKAGGNFELSIQGVSI
 STDLILGSDSSGHITTCNSCDSHIDSVHIKISGMLGWLIRLFHRKIETSLKNIYKICKIVRDSVSS
 KLQPYLKTLSVITRVDDVTSVDYSL LAPLTTTNQFLEGQLKGEFFWRGHRDPLPIHPPVMRFVPNGAYMV
 CMGISDYFFNTEVLAYQQSGTLKMTLGGQLL SNGRFQLNTDFLRFTLPKVKMFPMSGVQLLISAPVPV
 HLSIQPSGLSFNPKLETQAFVVL PNASLVPLFVLGMVRRKTNASLEVDAEENRLVGEMKLGSRWLELKE
 SKFGPFKVEYLEDVINYL VSTLVLPKINERLRGFPPLPAGIRFSHTFFYPYQNFLLLEADHLI

TRTRPLE - GFP Tag - V

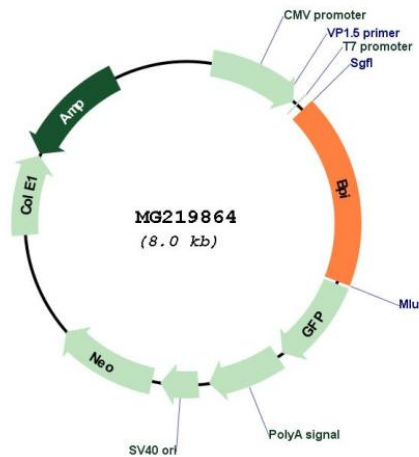
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_177850

ORF Size: 1458 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_177850.3](#), [NP_808518.1](#)

RefSeq Size: 1779 bp

RefSeq ORF: 1461 bp

Locus ID: 329547

UniProt ID: [Q67E05](#)

Cytogenetics: 2 H1

Gene Summary: The cytotoxic action of BPI is limited to many species of Gram-negative bacteria; this specificity may be explained by a strong affinity of the very basic N-terminal half for the negatively charged lipopolysaccharides that are unique to the Gram-negative bacterial outer envelope.[UniProtKB/Swiss-Prot Function]