

Product datasheet for **MG203006**

Pbx1 (BC002244) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pbx1 (BC002244) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pbx1
Synonyms: 2310056B04Rik; D230003C07Rik; Pbx-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203006 representing BC002244
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGACTGGACAACATGCTGCTAGCAGAAGGGGTGGCGGGCCTGAGAAGGGCGGAGGCTCGGCAGCGG
 CGGCGGCGGCAGCGGCAGCTTCTGGGGTGCAGGTTTCAGACAACCTCAGTGGAGCATTCCGACTACAGAGC
 CAAACTCTCACAGATCAGACAAATCTACCACACAGAGCTGGAGAAGTATGAGCAGGCATGCAATGAATTC
 ACCACCCACGTGATGAACCTCCTTCGAGAGCAAAGCCGGACCAGGCCATCTCTCCGAAGGAGATCGAGC
 GGATGGTGGAGCATCATCCACCGCAAGTTCAGCTCCATCCAGATGCAGCTGAAACAGAGCAGTGCGAGGC
 CGTCATGATCCTGCGCTCCCGTTCCCTGGATGCGAGGCGGAAGAGACGGAATTTCAACAAGCAAGCCACA
 GAAATTCTGAATGAATATTTCTATTCCCATCTCAGCAACCCTTACCCAGTGAGGAAGCCAAAGAGGAGT
 TAGCCAAGAAGTGCGGCATCACAGTCTCCAGGTATCAAAGTGGTTTGGAAATAAGCGAATCCGGTACAA
 GAAGAACATAGGTAATTTCAAGAGGAAGCCAATATTTATGCTGCCAAAACGGCTGTACAGCCACCAAT
 GTGTCAGCCCATGGAAGCCAAGCTAATCGCCCTCTACTCCAACTCAGCGGGTGGATACCTTCGCCAT
 GTTATCAGCCAGACAGGAGGATACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203006 representing BC002244
Red=Cloning site Green=Tags(s)

MRLDNMLLAEGVAGPEKGGGSAAAAAAAAASGGAGSDNSVEHSDYRAKLSQIRQIYHTELEKYEQACNEF
 TTHVMNLLREQSRTRPISPKEIERMVSIIHRKFSSIQMLKQSTCEAVMILRSRFLDARRKRRNFNKQAT
 EILNEYFYSHLSNPYPSEEAKEELAKKCGITVSQVSNWFGNKIRIYKKNIGKFQEEANIYAAKTAVTATN
 VSAHGSQANSPSTPNSAGGYSPCYQDPRRIQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC002244

ORF Size: 728 bp

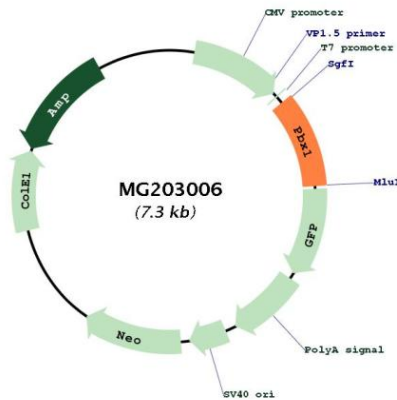
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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).
- 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:** [BC002244](#), [AAH02244](#)
- RefSeq Size:** 1491 bp
- RefSeq ORF:** 728 bp
- Locus ID:** 18514
- Cytogenetics:** 1 75.95 cM
- Gene Summary:** This gene encodes a homeobox protein that belongs to the three-amino-acid loop extension/Pre-B cell leukemia transcription factor (TALE/PBX) family of proteins. The encoded protein is involved in several biological processes during embryogenesis including steroidogenesis, sexual development and the maintenance of hematopoietic stem cells. This protein functions in the development of several organ systems and plays a role in skeletal patterning and programming. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]

Product images:



Circular map for MG203006