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Product datasheet for MR203006

Pbx1 (BC002244) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pbx1 (BC002244) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pbx1
Synonyms:	2310056B04Rik; D230003C07Rik; Pbx-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR203006 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGACTGGACAACATGCTGCTAGCAGAAGGGGTGGCGGGGCCTGAGAAGGGCGGAGGCTCGGCAGCGG
CGGCGGCGGCAGCGGCAGCTTCTGGGGGTGCAGGTTCAGACAACTCAGTGGAGCATTCCGACTACAGAGC
CAAACTCTCACAGATCAGACAAATCTACCACACAGAGCTGGAGAAGTATGAGCAGGCATGCAATGAATTC
ACCACCCACGTGATGAACCTCCTTCGAGAGCAAAGCCGGACCAGGCCCATCTCTCCGAAGGAGATCGAGC
GGATGGTGAGCATCATCCACCGCAAGTTCAGCTCCATCCAGATGCAGCTGAAACAGAGCACGTGCGAGGC
CGTCATGATCCTGCGCTCCCGGTTCCTGGATGCGAGGCGGAAGAGACGGAATTTCAACAAGCAAGCCACA
GAAATTCTGAATGAATATTTCTATTCCCATCTCAGCAACCCTTACCCCAGTGAGGAAGCCAAAGAGGAGT
TAGCCAAGAAGTGCGGCATCACAGTCTCCCAGGTATCAAACTGGTTTGGAAATAAGCGAATCCGGTACAA
GAAGAACATAGGTAAATTTCAAGAGGAAGCCAATATTTATGCTGCCAAAACGGCTGTCACAGCCACCAAT
GTGTCAGCCCATGGAAGCCAAGCTAACTCGCCCTCTACTCCCAACTCAGCGGGTGGATACCCTTCGCCAT
GTTATCAGCCAGACAGGAGGATACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

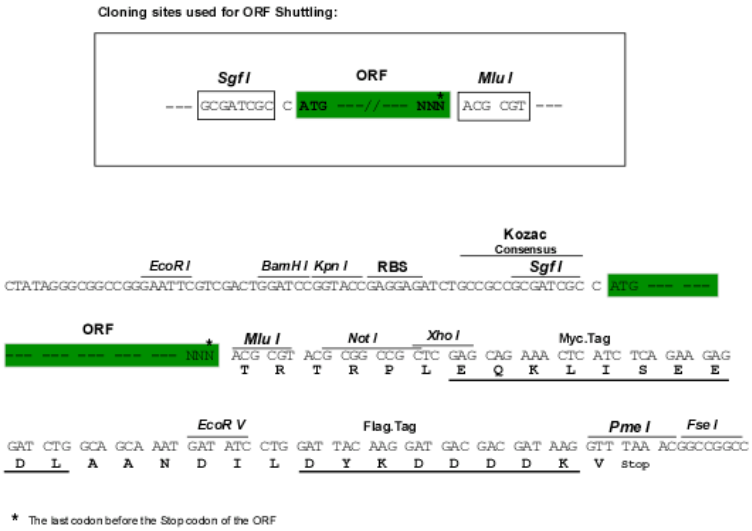
>MR203006 protein sequence
Red=Cloning site Green=Tags(s)

MRLDNMLLAEGVAGPEKGGGSAAAAAAAAASGGAGSDNSVEHSDYRAKLSQIRQIYHTELEKYEQACNEF
TTHVMNLLREQSRTRPISPKEIERMVSIIHRKFSSIQMQLKQSTCEAVMILRSRFLDARRKRRNFNKQAT
EILNEYFYSHLSNPYPSEEAKEELAKKCGITVSQVSNWFGNKRIRYKKNIGKFQEEANIYAAKTAVTATN
VSAHGSQANSPSTPNSAGGYPSPCYQPDRRIQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC002244

ORF Size: 726 bp

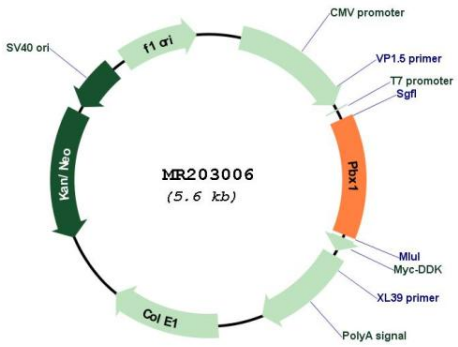
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC002244, AAH02244
RefSeq Size:	1491 bp
RefSeq ORF:	728 bp
Locus ID:	18514
Cytogenetics:	1 75.95 cM
MW:	27 kDa
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 MR203006