

## Product datasheet for **MR206861**

### **Pbx1 (NM\_183355) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pbx1 (NM_183355) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pbx1
Synonyms:	2310056B04Rik; D230003C07Rik; Pbx; Pbx-; Pbx-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR206861 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACGAGCAGCCGAGGCTGATGCATTCCACGCTGGGGTCGGGATGGCCGGACACCCCGCCTGTCCC  
 AGCACTTGCAGGATGGGGCCGGAGGACCGAGGGGGAGGGCGGGAGGAAGCAGGACATCGGGGACATTTT  
 ACAGCAAATTATGACCATCACAGACCAGAGTTTGGATGAAGCGCAGGCCAGAAAACATGCTTTAACTGC  
 CACAGAATGAAGCCTGCCTTGTTAATGTGTTGTGAAATCAAAGAAAAACAGTTTTGAGTATTCGGG  
 GAGCCCAAGAAGAGGAGCCACAGACCCAGCTCATGCGACTGGACAACATGCTGCTAGCAGAAGGGGT  
 GGCGGGCCTGAGAAGGGCGGAGGCTCGGCAGCGCGCGCGGCAGCGGAGCTTCTGGGGTGCAGGT  
 TCAGACAACCTCAGTGGAGCATTCCGACTACAGAGCCAACTCTCACAGATCAGACAACCTACCACACAG  
 AGCTGGAGAAGTATGAGCAGGCATGCAATGAATTCACCACCCACGTGATGAACCTCCTTCGAGAGCAAAG  
 CCGGACCAGGCCATCTCTCCGAAGGAGATCGAGCGGATGGTGAAGCATATCCACCGCAAGTTCAGTCC  
 ATCCAGATGCAGCTGAAACAGAGCAGTGCAGGCGGTATGATCCTGCGCTCCCGTTCCTGGATGCGA  
 GGCGGAAGAGACGGAATTTCAACAAGCAAGCCACAGAAATTTGAAATGAATATTTCTATCCCATCTCAG  
 CAACCTTACCCAGTGAGGAAGCCAAAGAGGAGTTAGCCAAGAAGTGGCCATCACAGTCTCCAGGTA  
 TCAAACCTGGTTTGGAAATTAAGCGAATCCGGTACAAGAAGAACATAGGTAATTTCAAGAGGAAGCCAATA  
 TTTATGCTGCCAAAACGGCTGTCACAGCCACCAATGTGTCAGCCCATGGAAGCCAAGCTAACTCGCCCTC  
 TACTCCAACTCAGCGGGTCTTCCAGTCTTTAACATGTCAAACCTCTGGAGATTTGTTTCATGAGCGTG  
 CAGTCACTCAATGGGATCTTACCAAGGGGCCAGGTTGGAGCCAACGTGCAATCACAGGTGGATACCC  
 TTCGCCATGTTATCAGCCAGACAGGAGGATACAGTGACGGACTCGCAGCCAGTCAGATGTACAGTCCGCA  
 GGGCATCAGTGCTAATGGAGTTGGCAGGATGCTACTACCCCTTCATCAGTGACCTCCCTACAGAAGGC  
 CCTGGCAGTGTTCACTCTGATACCTCCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR206861 protein sequence  
 Red=Cloning site Green=Tags(s)

MDEQPRLMHSHAGVGMAGHPGLS QHLQDGAGGTEGEGGRKQDIGDILQQIMTITDQSLDEAQARKHALNC  
 HRMKPALFNVLCEIKEKTVLSIRGAQEEPTDPQLMRLDNMLLAEGVAGPEKGGGSAASAAAAAASGGAG  
 SDNSVEHSDYRAKLSQIRQIYHTELEKYEQACNEFTTHVMNLLREQSRTRPISPKEIERMVSIIHRKFSS  
 IQMQLKQSTCEAVMILRSRFLDARRKRRNFNKQATEILNEYFYSHLSNPYPSEEAKEELAKKCGITVSQV  
 SNWFGNKRIRYKKNIGKFQEEANIYAAKTAVTATNVSAHGSQANSPSTPNSAGSSSSFNMSNSGDLFMSV  
 QSLNGDSYQGAQVGANVQSQVDTLRHVISQTTGGYSDGLAASQMYSPQGISANGGWQDATTSSVTSPTTEG  
 PGSVHSDTSN

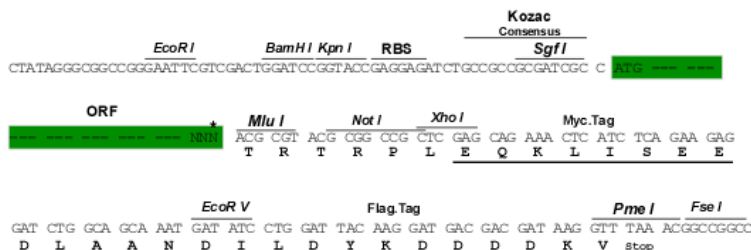
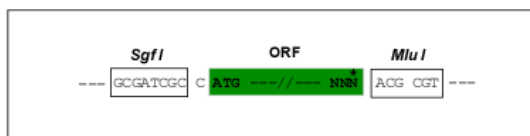
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_183355

**ORF Size:** 1293 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\\_183355.3](#)
**RefSeq Size:** 7163 bp

**RefSeq ORF:** 1293 bp

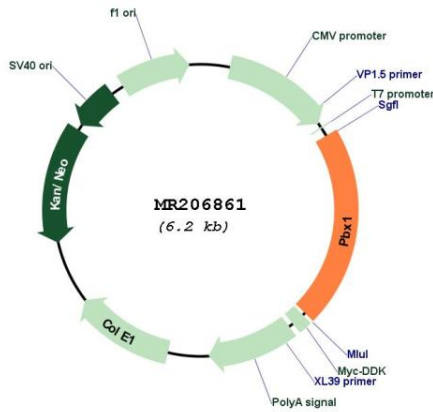
**Locus ID:** 18514

**UniProt ID:** [P41778](#)
**Cytogenetics:** 1 75.95 cM

**MW:** 46.6 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 MR206861