

Product datasheet for MC227191

Pbx1 (NM_001291508) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pbx1 (NM_001291508) Mouse Untagged Clone
Tag: Tag Free
Symbol: Pbx1
Synonyms: 2310056B04Rik; D230003C07Rik; Pbx; Pbx-; Pbx-1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227191 representing NM_001291508
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGACGAGCAGCCGAGGCTGATGCATTCACGCTGGGGTGGGATGGCCGGACACCCCGCCTGTCCC
 AGCACTTCAGGATGGGGCCGAGGGACCGAGGGGAGGGCGGGAGGAAGCAGGACATCGGGGACATTTT
 ACAGCAAATTATGACCATCACAGACCAGAGTTTGGATGAAGCGCAGGCCAGAAAACATGCTTTAACTGC
 CACAGAATGAAGCCTGCCTGTGTTAATGTGTTGTGTAATCAAAGAAAAACAGTTTTGAGTATTCGGG
 GAGCCCAAGAAGAGGAGCCACAGACCCAGCTCATGCGACTGGACAACATGCTGCTAGCAGAAGGGGT
 GGCGGGCCTGAGAAGGGCGGAGGCTCGGCAGCGGGCGGCGGCGGAGCGGAGCTTCTGGGGGTGCAGGT
 TCAGACAACCTCAGTGGAGCATTCCGACTACAGAGCCAACTCTCACAGATCAGACAATCTACCACACAG
 AGCTGGAGAAGTATGAGCAGGCATGCAATGAATCACCACCCACGTGATGAACCTCCTTCGAGAGCAAAG
 CCGGACCAGGCCATCTCTCCGAAGGAGATCGAGCGGATGGTGAAGCATCATCCACCGCAAGTTCAGCTCC
 ATCCAGATGCAGCTGAAACAGAGCAGTGCAGGCGTCATGATCCTGCGCTCCCGGTTCCCTGGATGCGA
 GGCGGAAGAGACGGAATTTCAACAAGCAAGCCACAGAAATCTGAATGAATATTTCTATTTCCCATCTCAG
 CAACCTTACCCAGTGAGGAAGCAAAGAGGATTTAGCCAAGAAGTGCGGCATCACAGTCTCCAGGTA
 TCAAACCTGGTTTGGAAATAAGCGAATCCGGTACAAGAAGAACATAGGTAAATTTCAAGAGGAAGCCAATA
 TTTATGCTGCCAAAACGGCTGTACAGCCACCAATGTGTGAGCCCATGGAAGCCAAGCTAACTCGCCCTC
 TACTCCAACTCAGCGGGTGGATACCCTTCGCCATGTTATCAGCCAGACAGGAGGATACAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001291508



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Insert Size:	1044 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001291508.1</u> , <u>NP_001278437.1</u>
RefSeq Size:	7050 bp
RefSeq ORF:	1044 bp
Locus ID:	18514
UniProt ID:	<u>P41778</u>
Cytogenetics:	1 75.95 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (c) lacks an alternate exon in the 3' coding region resulting in a frameshift compared to variant a. The encoded isoform (b) has a distinct C-terminus and is shorter than isoform a. Variants b and c encode the same isoform. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>