

Product datasheet for **SC331633**

PBX1 (NM_001204963) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PBX1 (NM_001204963) Human Untagged Clone
Tag: Tag Free
Symbol: PBX1
Synonyms: CAKUHD
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331633 representing NM_001204963.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGACGAGCAGCCAGGCTGATGCATTCCCATGCTGGGGTGGGATGGCCGGACACCCGGCCTGTCC
CAGCACTTGCAGGATGGGGCCGGAGGGACCGAGGGGGAGGGCGGGAGGAAGCAGGACATTGGAGACATT
TTACAGCAAATTATGACCATCACAGACCAGAGTTTGGATGAGGCGCAGGCCAGAAAACATGCTTTAAAC
TGCCACAGAATGAAGCCTGCCTTGTTTAAATGTGTGTGTGAAATCAAAGAAAAACAGTTTTGAGTATC
CGAGGAGCCAGGAGGAGGAACCCACAGACCCCGAGTGTGCGGCTGGACAACATGCTGTTAGCGGAA
GGCGTGGCGGGGCTGAGAAGGGCGGAGGGTGGCGGCAGCGGGCAGCGGGCGGCGGCTTCTGGAGGG
GCAGGTTTCAGACAACTCAGTGGAGCATTAGATTACAGAGCCAACTCTCACAGATCAGACAAATCTAC
CATACGGAGCTGGAGAAAATACGAGCAGGCTGCAACGAGTTCACCACCCACGTGATGAATCTCTGCCGA
GAGCAAAGCCGGACCAGGCCATCTCCCAAAGGAGATTGAGCGGATGGTCAGCATCATCCACCGCAAG
TTCAGTCCATCCAGATGCAGCTCAAGCAGAGCACGTGCGAGGCGGTGATGATCCTGCGTTCGGATTT
CTGGATGCGCGGGGAAGAGACGGAATTTCAACAAGCAAGCGACAGAAATCCTGAATGAATTTCTAT
TCCCATCTCAGCAACCTTACCCAGTGAGGAAGCCAAAGAGGAGTTAGCCAAGAAGTGTGGCATCACA
GTCTCCAGGTATCAAACCTGGTTTGGAAATAAGCGAATCCGGTACAAGAAGAACATAGGTAATTTCAA
GAGGAAGCCAATATTTATGCTGCCAAAACAGCTGTCAGTACCAATGTGTCAGCCCATGGAAGCCAA
GCTAACTCGCCCTCAACTCCCAACTCGGCTGGTTCTTCCAGTCTTTTAAACATGTCAAACCTCTGGAGAT
TTGTTTCATGAGCGTGCAGTCACTCAATGGGATTCTTACCAAGGGGCCAGGTTGGAGCCAACTGCAA
TCACAGGTGGATACCTTCGCCATGTTATCAGCCAGACAGGAGGATACAGTGTGGACTCGCAGCCAGT
CAGATGTACAGTCCGAGGGCATCAGTACCTCCCCGGCACCCCGCAAGCCCACTATCACTTCCGA
CTTCCAACGTGGCATCCGTGA
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001204963
Insert Size: 1263 bp



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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).
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:	NM_001204963.1
RefSeq Size:	4162 bp
RefSeq ORF:	1263 bp
Locus ID:	5087
UniProt ID:	P40424
Cytogenetics:	1q23.3
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
MW:	46.3 kDa
Gene Summary:	<p>This gene encodes a nuclear protein that belongs to the PBX homeobox family of transcriptional factors. Studies in mice suggest that this gene may be involved in the regulation of osteogenesis and required for skeletal patterning and programming. A chromosomal translocation, t(1;19) involving this gene and TCF3/E2A gene, is associated with pre-B-cell acute lymphoblastic leukemia. The resulting fusion protein, in which the DNA binding domain of E2A is replaced by the DNA binding domain of this protein, transforms cells by constitutively activating transcription of genes regulated by the PBX protein family. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2017]</p> <p>Transcript Variant: This variant (3) contains an alternate 3' terminal exon compared to variant 1. This results in a frame-shift and a shorter isoform (3) with a distinct C-terminus compared to isoform 1.</p>