

Product datasheet for SC118524

PBX2 (NM_002586) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PBX2 (NM_002586) Human Untagged Clone
Tag:	Tag Free
Symbol:	PBX2
Synonyms:	G17; HOX12; PBX2MHC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118524 sequence for NM_002586 edited (data generated by NextGen Sequencing)

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ATGGACGAACGGCTACTGGGGCCGCCCTCCAGGCGGGGGCCGGGGGGCTGGGATTG
GTGAGTGGGGAGCCTGGGGGCCCTGGCGAGCCTCCCGGTGGCGGAGACCCCGTGGGGT
AGCGGGGGGGTCCCGGAGGCCGAGGGAAGCAAGACATCGGGGACATTCTGCAGCAGATA
ATGACCATCACCGACCAGAGCCTGGACGAGGCCAGGCCAAGAAACAGCCCTAACTGC
CACCGAATGAAGCCTGCTCTCTTAGCGTCCTGTGTGAAATCAAGGAGAAAAGTGCCTC
AGCATTCGGAGCTCCAGGAGGAGGAGCCGGTGGACCCACAGCTGATGCGCTTGGACAAC
ATGCTTCTGGCAGAGGGTGTGGCTGGGCCCAGAAAAGGGGGCGGCTCAGCAGCAGAGCT
GCAGCCGCTGCAGCCTCTGGTGGTGGTGTGTCCCCTGACAACTCCATCGAACACTCGGAC
TATCGCAGCAAATTTGCCAGATCCGTACATATACCACTCGGAGCTGGAGAAGTATGAG
CAGGCATGTAATGAGTTCACGACCCATGTCATGAACCTGCTGAGGAGCAGAGCCGACC
AGGCCCCGTGGCCCCAAAGAGATGGAACGCATGGTGAGCATCATCCATCGAAAGTTCAGC
GCCATCCAGATGCAGCTGAAGCAGAGCACCTGCGAGGCTGTGATGATCCTGCGCTCCCGT
TTCCTGGATGCCAGACGAAAGCGCCGTAACCTTCAGCAAACAGGCCACTGAGGTCTAAAT
GAGTATTTCTACTCCACCTGAGTAACCCATATCCTAGTGAGGAGGCCAAGGAGGAGCTT
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GCCGTGTCAGTCACCCAGGGGGCCACAGCCGCACAGCTCCCGACACCCCTTCTCT
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GGGCTCAACGGAGATTCTATTCTGCTTCCAGGTGGAATCACTCCGACACTCGATGGGG
CCAGGGGGCTATGGGGATAACCTCGGGGAGGCCAGATGTACAGCCCACGGGAAATGAGG
GCAAATGGCAGCTGGCAAGAGGCTGTGACCCCTCTTCACTGACATCCCCAACGGAGGGA
CCAGGGAGTGTTCACTCTGATACCTCCAAGTGA
  
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Clone variation with respect to NM_002586.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002586 unedited
 ATTTTGTAACTACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGCCTCGTGCCGAA
 TTCGGCACGAGGCAGGGCCCCCCCCAGCTATGGACGAACGGCTACTGGGGCCGCCCCCT
 CCAGGCGGGGGCCGGGGGGGCTGGGATTGGTGAGTGGGGAGCCTGGGGGCCCTGGCGAG
 CCTCCCGGTGGCGGAGACCCCGTGGGGGTAGCGGGGGGTCCGGGAGGCCGAGGGAAG
 CAAGACATCGGGGACATTCTGCAGCAGATAATGACCATCACCGACCAGAGCCTGGACGAG
 GCCCAGGCCAAGAAACACGCCCTAAACTGCCACCGAATGAAGCCTGCTCTCTTTAGCGTC
 CTGTGTGAAATCAAGGAGAAAACTGGCCTCAGCATTTCGAGCTCCAGGAGGAGGAGCCG
 GTGGACCCACAGCTGATGCGCTTGGACAACATGCTTCTGGCAGAGGGTGTGGCTGGGCC
 GAGAAAGGGGGCGGCTCAGCAGCAGCAGCTGCAGCCGCTGCAGCCTCTGGTGGTGGTGTG
 TCCCTGACAACTCCATCGAACACTCGGACTATCGCAGCAAATGCCCAGATCCGTAC
 ATATACCACTCGGAGCTGGAGAAGTATGAGCAGGCATGTAATGAGTTCACGACCCATGTC
 ATGAACCTGCTGAGGGAGCAGAGCCGACCGAGCCCGTGGCCCCAAAGAGATGGAACGC
 ATGGTGAGCATCATCCATCGAAAGTTCAGCGCCATCCAGATGCAGCTGAAGCAGAGCACC
 TCGGAGGCTGTGATGATCCTGCGCTCCCGTTTCTGGATGCCAGACGAAAGCGCCCGTAC
 TTCAGCANACAGGCCACTGAGGTCTTAATGAGTATTTCTACTTCCACCTGAGTACCAT
 ATCCTANTGAGGGAGGCCAGGAGAGCTTGCCAGAAGTNTGCATCACCGTGTCTCAGGT
 CTCCACTGGNNTTGCNNCAGAGATTTCGCTATAGAACTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002586 unedited
 ACTTGAGGTGAGTTCTTTTCTTCTT
 TAAAAAAAAAAAGTTCAACCCAAACCCAGTCAATAATTCCTAAAGTAGCAAACT
 CCCTCCGAGGTAAATATCTGAGTCAAACACTCTCGTCCACCGAGCGATTCTATTGGTTTA
 AAATGAGCTGCGTATGAGGTAAGTAACCCGTCGGAGGGGCGGGGTGGGGATGCATGGG
 GCGTGGCCCATGCTCTGTCCAAAAGTCATGTCCCATTTTTTGGCATCTCTGATTGGG
 CAGGGCTGGCGTCTCCACAGATTCCAGAGCATACAAGTGGGTGGGGAAGGGAAGTGGG
 GGAGCCCAGGAGAGAAACAGAATAGTTGCAAGTGAATTATGTGTGTGTGAGGTGTGGGA
 AAGGGACAGAGAAAGACAGAGGAGAAAAAGGGTCTGAGAAATAGGTTTCTCGGTATGTG
 TATGTTTCTGTGAAGAAAGAAAGCGAGAGAGGAAAAAGATGGAAGGAGAGAGACAG
 ACCCCACACTCCCTTAGAGGCCCATTTCTTCTGCCATGTAATTAGCACCCACAGCACA
 GAGAGTCTCGTTAGGGAGGGGATGACCCATTGGCCCTTCTCTGTCTTGGGCTTCTCTCG
 ATTGGGGTTTGCCCTCTGAAGCCTGCGTCTTCAAGTCGCTTGTGAGAGCCCCAGCCCC
 TGTGACCTGAGGGGAGATCAGTTGGAGGATCAAGGAACACTCCCTGGCCCTCCGTGG
 GGATGCACTGAAGAGGGGTCAAGNCTTTGGCAGTGCATTTGCCTCATCCCGTGGTGACA
 TTGGGCTCCCCGAGTTTCCCTTAGCCCCGTCCTTGTGGGAGTGATCCCTTGGAGC
 AAAAAGGATTTCTGTGAGCAGCATCCCAAACTGTTCCAACCTGAATATTAACCCCAAC
 TCAAGAAGG

Restriction Sites:

NotI-NotI

ACCN:

NM_002586

Insert Size:

2140 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).

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_002586.3](#), [NP_002577.2](#)

RefSeq Size: 3210 bp

RefSeq ORF: 1293 bp

Locus ID: 5089

UniProt ID: [P40425](#)

Cytogenetics: 6p21.32

Domains: homeobox, PBX

Protein Families: Transcription Factors

Gene Summary: This gene encodes a ubiquitously expressed member of the TALE/PBX homeobox family. It was identified by its similarity to a homeobox gene which is involved in t(1;19) translocation in acute pre-B-cell leukemias. This protein is a transcriptional activator which binds to the TLX1 promoter. The gene is located within the major histocompatibility complex (MHC) on chromosome 6. [provided by RefSeq, Jul 2008]