

Product datasheet for **RG233833**

PBX1 (NM_001204961) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PBX1 (NM_001204961) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PBX1
Synonyms:	CAKUHEd
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>NM_001204961 ORF sequence, RG233833 may differ due to SNPs. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGACGAGCAGCCAGGCTGATGCATTCATGCTGGGGTGGGATGGCCGGACACCCCGCCTGTCC
CAGCACTTGCAGGATGGGGCCGGAGGGACCGAGGGGGAGGGCGGGAGGAAGCAGGACATTGGAGACATT
TTACAGCAAATTATGACCATCACAGACCAGAGTTTGGATGAGGCGCAGGCCAGAAAACATGCTTTAAAC
TGCCACAGAATGAAGCCTGCCTTGTAAATGTGTGTGTGAAATCAAAGAAAAACAGTTTTGAGTATC
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TCCCATCTCAGCAACCTTACCCAGTGAAGCAAGCAAGAGGAGTTAGCCAAGAAGTGTGGCATCACA
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GAGGAAGCCAATTTTATGCTGCCAAAACAGCTGCTACTGCTACCAATGTGTCAGCCCATGGAAGCCAA
GCTAACTCGCCCTCAACTCCCAACTCGGCTGGTGGATACCCCTCGCCATGTTATCAGCCAGACAGGAGG
ATACAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG233833
 Blue=ORF Red=Cloning site Green=Tag(s)

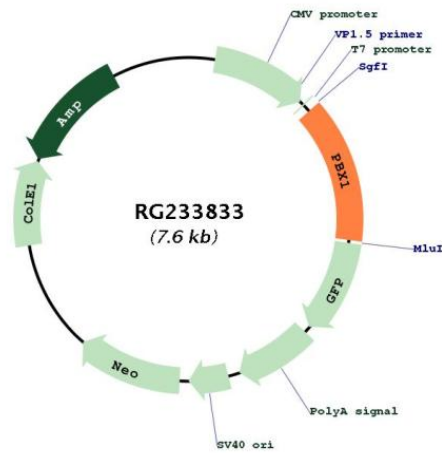
MDEQPRLMHSHAGVGMAGHPGLSQHLQDQAGGTEGEGGRKQDIGDILQQIMTITDQSLDEAQARKHALN
 CHRMPALFNVLC EIKEKTVLSIRGAQEEPTDPQLMRLDNMLLAEGVAGPEKGGGSAAAAAAAAAASGG
 AGSDNSVEHSDYRAKLSQIRQIYHTELEKYEQACNEFTTHVMNLLREQSRTRPISPKEIERMVSIIHRK
 FSSIQMLKQSTCEAVMILRSRFLDARRKRRNFNKQATEILNEYFYSHLSNPYPSEEAKEELAKKCGIT
 VSQVSNWFGNKRIRYKKNIGKFQEEANIYAAKTAVTATNVSAHGSQANSPSTPNSAGGYSPCYQPD RR
 IQ
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001204961
ORF Size:	1041 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:	<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_001204961.2
RefSeq Size:	6974 bp
RefSeq ORF:	1044 bp
Locus ID:	5087
Cytogenetics:	1q23.3
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
MW:	38.4 kDa
Gene Summary:	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]