

## Product datasheet for **SC303233**

### PITX1 (NM\_002653) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PITX1 (NM\_002653) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PITX1  
**Synonyms:** BFT; CCF; LBNBG; POTX; PTX1  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_002653 edited  
 CTGGGGACTTCGAGGCGGCCGAGACGGGAGTTGATTCTAGGCGAAACAAGTCATTTGAGG  
 CCTGAGGTCGCAGCCAGGGCGGGCGGCCAGCCCCGGCCCTGGAGCGCCCGCCG  
 CGGTCCCCACCTCCATGACGCCTTCAAGGGGGCATGAGCCTGGAGCGCTGCCGGAGG  
 GGCTCCGGCCCGCCGCCGCCACCCCATGACATGGGGCCCGCTTCCACCTGGCCCGGC  
 CCGCCGACCCCGCGAGCCGCTCGAGAAGTCCGCCAGCGAGTCGTCTGACACGGAGCTGC  
 CAGAGAAGGAGCGCGCGGGGAACCCAAGGGGCCGAGGACAGTGGTGCGGGAGGCACGG  
 GCTGCGGGCGCGCAGACGACCCAGCCAAGAAGAAGAAGCAGCGGGCGCAACGTACGCACT  
 TCACAAGCCAGCAGTTGCAAGAGCTAGAGGCCACGTTCCAGAGGAACCGTACCCCGACA  
 TGAGCATGAGGGAGGAGATCGCCGTGTGGACCAACCTCACCGAGCCGCGGTGCGGGTCT  
 GGTTCAGAACCAGCGAGCCAAGTGGCGTAAGCGCGAGCGTAACCAGCAGCTGGACTGT  
 GCAAGGGTGGCTACGTGCCGAGTTCAGCGGCCTAGTGCAGCCCTACGAGGACGTGTACG  
 CCGCCGGCTACTCCTACAACAAGTGGGCCGCAAGAGCCTGGCGCCAGCGCCGCTCTCCA  
 CCAAGAGCTTCACTTCTTCAACTCCATGAGCCCGCTGTGTCGAGTCCATGTTCTCAG  
 CACCCAGCTCCATCTCTCCATGACCATGCCGTCCAGCATGGGCCAGGGCGCCGTGCCTG  
 GCATGCCAACTCGGGCCTCAACAACATCAACAACCTCACCGGCTCCTCGCTCAACTCGG  
 CCATGTGCGCCGGGCGCTTGCCCGTACGGCACTCCCGCCTCGCCCTACAGCGTCTACCGGG  
 ACACGTGCAACTCGAGCCTAGCCAGCCTGCGGCTCAAGTCCAACAGCACTCGTCGTTTG  
 GCTAGCGGCCCTGCAGGGCCCGGCTCGGGCCTCAACGCGTGCCAGTACAACAGCTGAC  
 CGCCCCGCGCACACCGGGCCGGCGGCGGAGCGGGGAAGGGCGCGGGCGCGGAGGAC  
 GCACGCGGGGCCCGGCTCGCAAGCCCCAGCTCACCGCGCCGCGGACCTCACACCTGCGC  
 AGCCCCCTCCTCCACTTCCCACTCCGGGTTGGTTTTGTGTTTGTCTTTCCGGACCCAC  
 TCTGCCCTCCAAAAGACAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_002653



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<b>Insert Size:</b>	1300 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone has been fully sequenced and found to be a perfect match to the protein associated with this reference, NM_002653.3
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002653.3</a> , <a href="#">NP_002644.3</a>
<b>RefSeq Size:</b>	2373 bp
<b>RefSeq ORF:</b>	945 bp
<b>Locus ID:</b>	5307
<b>UniProt ID:</b>	<a href="#">P78337</a>
<b>Cytogenetics:</b>	5q31.1
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	This gene encodes a member of the RIEG/PITX homeobox family, which is in the bicoid class of homeodomain proteins. Members of this family are involved in organ development and left-right asymmetry. This protein acts as a transcriptional regulator involved in basal and hormone-regulated activity of prolactin. [provided by RefSeq, Jul 2008]