

## Product datasheet for **MC226815**

### Pitx2 (NM\_001287048) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pitx2 (NM\_001287048) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pitx2  
**Synonyms:** 9430085M16Rik; Brx1; Brx1b; Munc30; Otlx2; Ptx2; Rieg  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC226815 representing NM\_001287048  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTTCGGTCCTAGCTCCTGGCCAGCCCCGCTCCTTGGACTCCTCCAACATAGACTGGAGGTGCATA  
 CAATCTCCGATACTTCCAGCCCTGAAGTCGCAGAGAAAGATAAGGGCCAGCAAGGAAAGAATGAGGATGT  
 GGGCGCCGAGGACCCGTCCAAGAAGAAGCGCAACGCCGGCAGAGGACTCATTCTACTAGCCAGCAGCTG  
 CAGGAGCTGGAAGCCACTTCCAGAGAAACCGCTACCCAGACATGTCCACTCGCGAAGAAATCGCCGTGT  
 GGACCAACCTTACGGAAGCCGAGTCCGGGTTTGGTTCAAGAATCGCCGGCCAAATGGAGAAAGCGGGA  
 ACGCAACCAGCAGCCGAGCTGTGCAAGAATGGCTTTGGGCCGAGTTCAACGGGCTCATGCAGCCCTAC  
 GATGACATGTACCCCGCTATTCGTACAACAATTGGGCTGCCAAGGGCCTCACGTGAGCGTCTCTGTCCA  
 CCAAGAGCTTCCCCTTCTCAACTCCATGAACGTCAATCCCCTGTCTCTCAGAGTATGTTTTCCCAGCC  
 CAACTCCATCTCATATGAGTATGTGCTCCAGCATGGTGCCTCCGCGGTGACCGGCGTCCCAGGCTCC  
 AGCCTCAATAGCCTGAATAACTTGAACAACCTGAGCAGCCGTCGCTGAATTCGCGGTGCCACGCCCG  
 CCTGTCTTACGCGCCGCGACTCCTCCGTACGTTTATAGGGACACATGTAACCTGAGCCTGGCCAGCCT  
 GAGACTGAAAGCAAAGCAGCACTCCAGCTTCGGCTACGCCAGCGTGCAGAACCCGGCCTCCAACCTGAGT  
 GCTTGCCAGTATGCAGTCGACCGCCGGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001287048  
**Insert Size:** 873 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001287048.1</a></u> , <u><a href="#">NP_001273977.1</a></u>
<b>RefSeq Size:</b>	2317 bp
<b>RefSeq ORF:</b>	873 bp
<b>Locus ID:</b>	18741
<b>Cytogenetics:</b>	3 57.84 cM
<b>Gene Summary:</b>	<p>Controls cell proliferation in a tissue-specific manner and is involved in morphogenesis. During embryonic development, exerts a role in the expansion of muscle progenitors. May play a role in the proper localization of asymmetric organs such as the heart and stomach. Isoform PtX2c is involved in left-right asymmetry the developing embryo.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) contains an alternate 5' terminal exon, lacks a portion of the 5' coding region and initiates translation at an alternate start codon compared to variant 1. The encoded protein (isoform e, also known as PITX2Cbeta) has a distinct N-terminus and is longer than isoform a. Translation begins at a downstream in-frame start codon compared to the AUG used in this transcript to produce PITX2Calpha (PMID 18373856).</p>