

## Product datasheet for **MC209171**

### **Pitx2 (NM\_001042504) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pitx2 (NM\_001042504) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pitx2  
**Synonyms:** 9430085M16Rik; Brx1; Brx1b; Munc30; Otlx2; Ptx2; Rieg  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC209171 representing NM\_001042504  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**

ATGGAGACCAATTGTCGAACTAGTGTGCGCCTGCGTGCAATTAGAGAAAGATAAGGGCCAGCAAGGAA  
 AGAATGAGGATGTGGGCGCCGAGGACCCGTCCAAGAAGAAGCGGCAACGCCGGCAGAGGACTCATTTAC  
 TAGCCAGCAGCTGCAGGAGCTGGAAGCCACTTTCCAGAGAAACCGCTACCCAGACATGTCCACTCGCGAA  
 GAAATCGCCGTGTGGACCAACCTTACGGAAGCCCGAGTCCGGGTTTGTTCAAGAATCGCCGGGCCAAAT  
 GGAGAAAGCGGGAACGCAACAGCAGGCCGAGCTGTGCAAGAATGGCTTTGGGCCGAGTTCAACGGGCT  
 CATGCAGCCCTACGATGACATGTACCCCGGCTATTCGTACAACAATTGGGCTGCCAAGGGCCTCACGTCA  
 GCGTCTCTGTCCACCAAGAGCTTCCCTTCTTCAACTCCATGAACGTCAATCCCCTGTCCTCTCAGAGTA  
 TGTTTTCCCGGCCCACTCCATCTCATCTATGAGTATGTCGTCCAGCATGGTGCCCTCCGCGGTGACCGG  
 CGTCCCGGGCTCCAGCCTCAATAGCCTGAATAACTGAACAACCTGAGCAGCCCGTCGCTGAATTCGCGG  
 GTGCCCACGCCCGCTGTCCTTACGCGCCGCGACTCCTCCGTACGTTTATAGGGACACATGTAACCTGA  
 GCCTGGCCAGCCTGAGACTGAAAGCAAAGCAGCACTCCAGCTTCGGCTACGCCAGCGTGCAGAACCCGGC  
 CTCCAACCTGAGTGCTTGCCAGTATGCAGTCGACCGGCCGGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001042504  
**Insert Size:** 816 bp


[View online »](#)

<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>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>NM_001042504.2, NP_001035969.1</u>
<b>RefSeq Size:</b>	1808 bp
<b>RefSeq ORF:</b>	816 bp
<b>Locus ID:</b>	18741
<b>UniProt ID:</b>	<u>P97474</u>
<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 (1) represents the shortest transcript and encodes the shortest isoform (a, also known as PITX2A). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>