

## Product datasheet for MC209169

### Pitx2 (NM\_011098) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pitx2 (NM_011098) 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:	>MC209169 representing NM_011098 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGACCAATTGTCGCAAACTAGTGTGCGCCTGCGTGCAATTAGGCGTGCAGCCGGCAGCCGTTGAAT  
GTCTCTTCTCAAAGACTCCGAAATCAAAAAGGTCGAGTTCACGGACTCTCCAAGAGCCGAAAGAGTC  
GGCCAGCAGCAAGCTGTTCCCGCGGCAGCACCCCGGCCAATGAGAAAGATAAGGGCCAGCAAGGAAAG  
AATGAGGATGTGGGCGCCGAGGACCCGTCGAAGAAGAAGCGGCAACGCCGGCAGAGGACTCATTTACTA  
GCCAGCAGCTGCAGGAGCTGGAAGCCACTTTCCAGAGAAACCGCTACCCAGACATGTCCACTCGCGAAGA  
AATCGCCGTGTGGACCAACCTTACGGAAGCCCGAGTCCGGGTTTGGTTCAAGAATCGCCGGGCCAAATGG  
AGAAAGCGGGAACGCAACCAGCAGGCCGAGCTGTGCAAGAATGGCTTTGGGCCGAGTTCAACGGGCTCA  
TGCAGCCCTACGATGACATGTACCCCGCTATTCGTACAACAATTGGGCTGCCAAGGGCCTCACGTCAGC  
GTCTGTGCCCAAGAGCTTCCCCTTCTCAACTCCAATGAACGTCAATCCCCTGTCTCTCAGAGTATG  
TTTTCCCGCCCAACTCCATCTCATCTATGAGTATGTCGTCCAGCATGGTGCCCTCCGCGGTGACCGGCG  
TCCCGGCTCCAGCCTCAATAGCCTGAATAACTGAACAACCTGAGCAGCCCGTCGCTGAATTCGCGGT  
GCCACGCCCGCTGTCTTACGCGCCGCGACTCCTCCGTACGTTTATAGGGACACATGTAACCTCGAGC  
CTGGCCAGCCTGAGACTGAAAGCAAAGCAGCACTCCAGCTTCGGCTACGCCAGCGTGCAGAACCCGGCCT  
CCAACCTGAGTGCTTGCCAGTATGCAGTCGACCCGGCCGGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_011098



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<b>Insert Size:</b>	954 bp
<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>	<a href="#">NM_011098.4</a> , <a href="#">NP_035228.2</a>
<b>RefSeq Size:</b>	1946 bp
<b>RefSeq ORF:</b>	954 bp
<b>Locus ID:</b>	18741
<b>UniProt ID:</b>	<a href="#">P97474</a>
<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 (2) contains an alternate in-frame exon in the 5' coding region compared to variant 1. The encoded protein (isoform b, also known as PITX2B1) is longer than isoform a. 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>