

## Product datasheet for MR227600

### Pitx2 (NM\_011098) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pitx2 (NM_011098) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)
ORF Nucleotide Sequence:	>MR227600 representing NM_011098 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGACCAATTGTCGCAAACTAGTGTGGCCTGCGTGCAATTAGGCGTGCAGCCGGCAGCCGTTGAAT  
GTCTCTTCTCAAAGACTCCGAAATCAAAAAGGTCGAGTTCACGGACTCTCCAAGAGCCGGAAAGAGTC  
GGCCAGCAGCAAGCTGTCCCGCGGCAGCACCCCGGCCAATGAGAAAGATAAGGGCCAGCAAGGAAAG  
AATGAGGATGTGGGCGCCGAGGACCCGTCCAAGAAGAAGCGGCAACGCCGGCAGAGGACTCATTTACTA  
GCCAGCAGCTGCAGGAGCTGGAAGCCACTTTCCAGAGAAACCGCTACCCAGACATGTCCACTCGGAAGA  
AATCGCCGTGTGGACCAACCTTACGGAAGCCCGAGTCCGGGTTTGGTTCAAGAATCGCCGGCCAAATGG  
AGAAAGCGGGAACGCAACCAGCAGGCCGAGCTGTGCAAGAATGGCTTTGGGCCGAGTTCAACGGGCTCA  
TGCAGCCCTACGATGACATGTACCCCGCTATTCGTACAACAATTGGGCTGCCAAGGGCCTCACGTCAGC  
GTCTCTGTCCACCAAGAGCTTCCCCTTCTCAACTCCAATGAACGTCAATCCCCTGTCTCTCAGAGTATG  
TTTTCCCGCCCAACTCCATCTCATCTATGAGTATGTCGTCCAGCATGGTGCCCTCCGCGGTGACCGGCG  
TCCCGGCTCCAGCCTCAATAGCCTGAATAACTGAACAACCTGAGCAGCCCGTCGCTGAATTCGCGGT  
GCCACGCCCGCTGTCTTACGCGCCGCGACTCCTCCGTACGTTTATAGGGACACATGTAACCTCGAGC  
CTGGCCAGCCTGAGACTGAAAGCAAAGCAGCACTCCAGCTTCGGCTACGCCAGCGTGCAGAACCCGGCCT  
CCAACCTGAGTGCTTGCCAGTATGCAGTCGACCCGGCCGGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR227600 representing NM\_011098  
Red=Cloning site Green=Tags(s)

METNCRKLVSA CVQLGVQPAAVECLFSKDSEIKKVEFTDSPKSRKESASSKLFPRQHPGAN EKDKGQQGK  
 NEDVGAEDPSKKKRQRRTHTFSQQLQELEATFQRNRY PDMSTREEIAVVTNL TEARVRVWFKNRRAKW  
 RKRERNQQAELCKNGFGPQFNGLMQPYDDMYPGYSYNNWAAKGLTSASLSTKSFPPFFNSMNVNPLSSQSM  
 FSPPNSISSMSMSSMVP SAVTGVPGSSLNLSLNNLSSPSLNSAVPTPACPYAPPTPPYVYRDT CNSS  
 LASLRLKAKQHSSFGYASVQNPASNLSACQYAVDRPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_011098

**ORF Size:** 951 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:**

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\\_011098.4](#), [NP\\_035228.2](#)

**RefSeq Size:** 1903 bp

**RefSeq ORF:** 954 bp

**Locus ID:** 18741

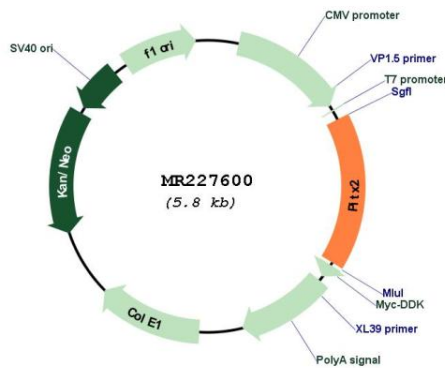
**UniProt ID:** [P97474](#)

**Cytogenetics:** 3 57.84 cM

**MW:** 35.8 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for MR227600