

## Product datasheet for MR229127

### Pitx2 (NM\_001286942) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pitx2 (NM\_001286942) 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:** >MR229127 representing NM\_001286942  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGACCAATTGTCGCAAACTAGTGTGGCCTGCGTGCAATTAGACTCCGAAATCAAAAAGTTCGAGT  
 TCACGGACTCTCCAAGAGCCGAAAGAGTCGGCCAGCAGCAAGCTGTTCCCGCGGCAGCACCCCGGCGC  
 CAATGAGAAAGATAAGGGCCAGCAAGGAAAGAATGAGGATGTGGGCGCCGAGGACCCGTCCAAGAAGAAG  
 CGGCAACGCCGGCAGAGGACTCATTTCACTAGCCAGCAGCTGCAGGAGCTGGAAGCCACTTCCAGAGAA  
 ACCGCTACCCAGACATGTCCACTCGCAAGAAATCGCCGTGTGGACCAACCTTACGGAAGCCGAGTCCG  
 GGTTTGGTTCAAGAATCGCCGGCCAAAATGGAGAAAGCGGGAACGCAACCAGCAGCCGAGCTGTGCAAG  
 AATGGCTTTGGGCGCAGTTCAACGGGCTCATGCAGCCCTACGATGACATGTACCCCGGCTATTCGTACA  
 ACAATTGGGCTGCCAAGGGCCTCACGTCAGCGTCTGTGTCCACCAAGAGCTTCCCCTTCTCAACTCCAT  
 GAACGTCAATCCCCTGTCTCTCAGAGTATGTTTTCCCGCCCAACTCCATCTCATATGAGTATGTGCG  
 TCCAGCATGGTGGCCTCCGCGGTGACGGGCTCCCGGGCTCCAGCCTCAATAGCCTGAATAAATTGAACA  
 ACCTGAGCAGCCCGTCTGTAATTCGCGGTGCCACGCCCGCTGTCTTACGCGCCGCGACTCCTCC  
 GTACGTTTATAGGGACACATGAACTCGAGCCTGGCCAGCCTGAGACTGAAAGCAAAGCAGCACTCCAGC  
 TTCGGCTACGCCAGCGTGCAGAACCCGGCCTCCAACCTGAGTGCTTGCCAGTATGCAGTCGACCGGCCGG  
 TG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229127 representing NM\_001286942  
 Red=Cloning site Green=Tags(s)

METNCRKLVSA CVLDSEIKKVEFTDSPKSRKESASSKLFPRQHPGANEKDKGQQGKNEDVGAEDPSKKK  
 RQRRQRTHFTSQQLQELEATFQRNRYPDMSTREEIAVWNTL TEARVVRVWFKNRRAKWRKRERNQQAELCK  
 NGFGPQFNGLMQPYDDMYPGYSYNNWAAKGLTSASLSTKSFPPFNSMNVNPLSSQSMFSPNSISSMSMS  
 SSMVPSAVTGVPGSSLSLNNLSSPSLNSAVPTPACPYAPPTPPYVYRDTCNSSLASLRLKAKQHSS  
 FGYASVQNPASNLSACQYAVDRPV

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\_001286942

**ORF Size:** 912 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\\_001286942.1](#), [NP\\_001273871.1](#)

**RefSeq Size:** 1907 bp

**RefSeq ORF:** 915 bp

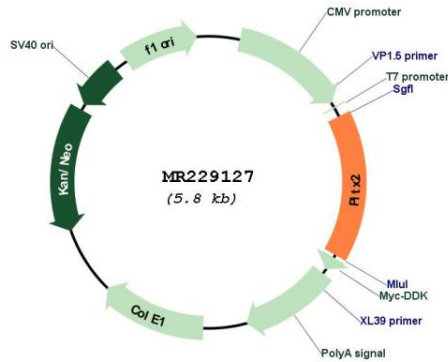
**Locus ID:** 18741

**Cytogenetics:** 3 57.84 cM

**MW:** 34.4 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 Pt2c is involved in left-right asymmetry the developing embryo.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR229127