

Product datasheet for MR229026

Pitx2 (NM_001287048) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pitx2 (NM_001287048) 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:	>MR229026 representing NM_001287048 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTTCGGTCCTAGCTCCTGGCCAGCCCGCTCCTTGGACTCCTCCAACATAGACTGGAGGTGCATA
CAATCTCCGATACTTCCAGCCCTGAAGTCGCAGAGAAAGATAAGGGCCAGCAAGGAAAGAATGAGGATGT
GGGCGCCGAGGACCCGTCCAAGAAGAAGCGGCAACGCCGGCAGAGGACTCATTCTACTAGCCAGCAGCTG
CAGGAGCTGGAAGCCACTTCCAGAGAAACCGCTACCCAGACATGTCCACTCGCGAAGAAATCGCCGTGT
GGACCAACCTTACGGAAGCCGAGTCCGGGTTTGGTTCAAGAATCGCCGGCCAAATGGAGAAAGCGGGA
ACGCAACCAGCAGCCGAGCTGTGCAAGAATGGCTTTGGGCCGAGTTCAACGGGCTCATGCAGCCCTAC
GATGACATGTACCCCGGCTATTCGTACAACAATTGGGCTGCCAAGGGCCTCACGTGAGCGTCTCTGTCCA
CCAAGAGCTTCCCCTTCTCAACTCCATGAACGTCAATCCCCTGTCTCTCAGAGTATGTTTTCCCGCC
CAACTCCATCTCATATGAGTATGTGCTCCAGCATGGTGCCTCCGCGGTGACCGGCGTCCCGGGTCC
AGCCTCAATAGCCTGAATAACTTGAACAACCTGAGCAGCCGTCGCTGAATTCGCGGTGCCACGCCCG
CCTGTCTTACGCGCCGCGACTCCTCCGTACGTTTATAGGGACACATGTAACCTGAGCCTGGCCAGCCT
GAGACTGAAAGCAAAGCAGCACTCCAGCTTCGGCTACGCCAGCGTGCAGAACCCGGCCTCCAACCTGAGT
GCTTGCCAGTATGCAGTCGACCGCCGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229026 representing NM_001287048
Red=Cloning site Green=Tags(s)

MASVLAPGQPRSLDSSKHRLEVHTISDTSSPEVAEKDKGQQGNEDVGAEDPSKKKRQRRQRTHFTSQQL
 QELEATFQRNRYPDMSTREEIAVWNTL TEARVRVWFKNRRRAKWRKRERNQQAELCKNGFGPQFNGLMQPY
 DDMYPGYSYNNWAAKGLTSASLSTKSFPPFFNSMNVNPLSSQSMFSPPNISSSMSMSSSMVPSAVTGVPGS
 SLNSLNNLNLSSPSLNSAVPTPACPYAPPTPPYVYRDTCNSSLASLRLKAKQHSSFGYASVQNPASNLS
 ACQYAVDRPV

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_001287048

ORF Size: 870 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_001287048.1](#), [NP_001273977.1](#)

RefSeq Size: 2317 bp

RefSeq ORF: 873 bp

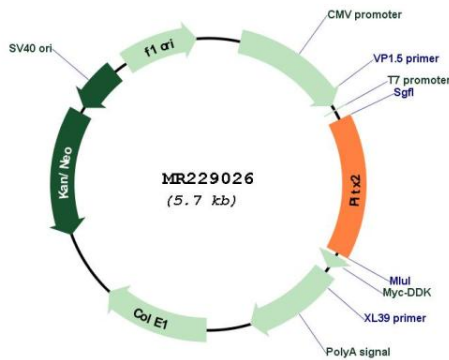
Locus ID: 18741

Cytogenetics: 3 57.84 cM

MW: 32.7 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 MR229026