

Product datasheet for MC226916

Pitx2 (NM_001286942) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pitx2 (NM_001286942) 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: >MC226916 representing NM_001286942
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGACCAATTGTGCGAACTAGTGTGCGCCTGCGTGCAATTAGACTCCGAAATCAAAAAGTTCGAGT
 TCACGGACTCTCCAAGAGCCGAAAGAGTCGGCCAGCAGCAAGCTGTTCCCGCGGCAGCACCCCGGCGC
 CAATGAGAAAGATAAGGGCCAGCAAGGAAAGAATGAGGATGTGGGCGCCGAGGACCCGTCCAAGAAGAAG
 CGGCAACGCCGGCAGAGGACTCATTTACTAGCCAGCAGCTGCAGGAGCTGGAAGCCACTTTCAGAGAA
 ACCGCTACCCAGACATGTCCACTCGCGAAGAAATCGCCGTGTGGACCAACCTTACGGAAGCCCGAGTCCG
 GTTTTGTTAAGAATCGCCGGGCAAATGGAGAAAGCGGGAACGCAACCAGCAGGCCGAGCTGTGCAAG
 AATGGCTTTGGGCCGAGTTCAACGGGCTCATGCAGCCCTACGATGACATGTACCCCGGCTATTCGTACA
 ACAATTGGGCTGCCAAGGGCCTCAGTCAGCGTCTGTGCCACCAAGAGCTTCCCCTTCTCAACTCCAT
 GAACGTCAATCCCCTGTCTCTCAGAGTATGTTTTCCCGCCCACTCCATCTCATCTATGAGTATGTCG
 TCCAGCATGGTGCCTCCGCGGTGACCGGCTCCCGGCTCCAGCCTCAATAGCCTGAATAACTTGAACA
 ACCTGAGCAGCCCGTGCCTGAATTCGCGGTGCCAGCCCGCTGTCTTACGCGCCCGCAGCTCCTCC
 GTACGTTTATAGGGACACATGTAACCTCGAGCCTGGCCAGCTGAGACTGAAAGCAAAGCAGCACTCCAGC
 TTCGGCTACGCCAGCGTGCAGAACCAGGCTCCAACTGAGTGCTTGCCAGTATGCAGTCGACCGGCCGG
 TG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001286942
Insert Size: 915 bp



[View online »](#)

OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001286942.1</u> , <u>NP_001273871.1</u>
RefSeq Size:	1907 bp
RefSeq ORF:	915 bp
Locus ID:	18741
Cytogenetics:	3 57.84 cM
Gene Summary:	<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 (4) contains an alternate in-frame exon in the 5' coding region compared to variant 1. The encoded protein (isoform d, also known as PITX2B2) is longer than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>