

Product datasheet for **MG227617**

Pitx2 (NM_001042504) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pitx2 (NM_001042504) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pitx2
Synonyms: 9430085M16Rik; Brx1; Brx1b; Munc30; Otlx2; Ptx2; Rieg
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG227617 representing NM_001042504
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGAGACCAATTGTCGCAAACTAGTGTCCGGCCTGCGTGCAATTAGAGAAAGATAAGGGCCAGCAAGGAA
 AGAATGAGGATGTGGGCGCCGAGGACCCGTCGAAGAAGAAGCGGCAACGCCGGCAGAGGACTCATTTAC
 TAGCCAGCAGCTGCAGGAGCTGGAAGCCACTTTCCAGAGAAACCGCTACCCAGACATGTCCACTCGCGAA
 GAAATCGCCGTGTGGACCAACCTTACGGAAGCCGAGTCCGGTTTGGTTCAAGAATCGCCGGGCCAAAT
 GGAGAAAGCGGGAACGCAACCAGCAGGCCGAGCTGTGCAAGAATGGCTTTGGGCCGAGTTCAACGGGCT
 CATGCAGCCCTACGATGACATGTACCCCGCTATTCGTACAACAATTGGGCTGCCAAGGGCTCAGGTCA
 GCGTCTCTGTCCACCAAGAGCTTCCCCTTCTTCAACTCCATGAACGTCAATCCCCTGTCTCTCAGAGTA
 TGTTTTCCCCGCCCAACTCCATCTCATCTATGAGTATGTCGTCCAGCATGGTGCCCTCCGCGGTGACCGG
 CGTCCCGGGCTCCAGCCTCAATAGCCTGAATAACTTGAACAACCTGAGCAGCCCGTCCGTTGAATCCGCG
 GTGCCACGCCCGCTGTCTTACGCGCCGCCGACTCCTCCGTACGTTTATAGGGACACATGTAACCTGA
 GCCTGGCCAGCCTGAGACTGAAAGCAAAGCAGCACTCCAGCTTCGGCTACGCCAGCGTGCAGAACCCGGC
 CTCACCTGAGTGCTTGCCAGTATGCAGTCGACCGGCCGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227617 representing NM_001042504
Red=Cloning site Green=Tags(s)

METNCRKLVSA CVLEKDKGQQGKNE DVGAE DPSKKKRQRRT HFTSQQLQE LEATFQRNRY PDMSTRE
 EIAVW TNLTEARVRVW FKNRRRAKWRKRERNQQAELCKNGFGPQFNGLMQPYDDMYPGYSYNNWAAKGLTS
 ASLSTKSF PFFNSMNVNPLSSQSMFSP PNSSISSMSMSSMVP SAVTGVPGSSLNSLNNLNLSSPSLNSA
 VPTPACPYAPPTPPYVYRDT CNSL ASLRLKAKQHSSFGYASVQNPASNL SACQYAVDRPV

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1348_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001042504

ORF Size: 813 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_001042504.2](#), [NP_001035969.1](#)

RefSeq Size: 1759 bp

RefSeq ORF: 816 bp

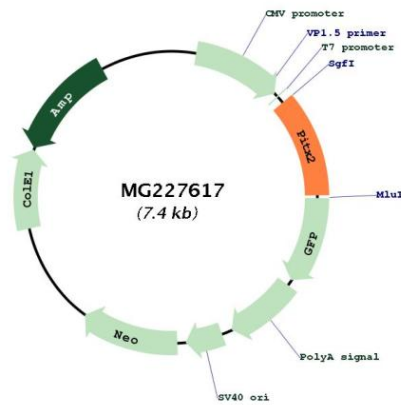
Locus ID: 18741

UniProt ID: [P97474](#)

Cytogenetics: 3 57.84 cM

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 MG227617