

## Product datasheet for MR227421

### Pdx1 (NM\_008814) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pdx1 (NM\_008814) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pdx1  
**Synonyms:** IDX-1; IPF-1; Ipf1; Mody4; pdx-1; STF-1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR227421 representing NM\_008814  
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGGATCGCC

ATGAACAGTGAGGAGCAGTACTACGCGGCCACACAGCTCTACAAGGACCCGTGCGCATTCCAGAGGGGCC  
 CGGTGCCAGAGTTCAGCGCTAACCCCCCTGCGTGCCTGTACATGGGCCGCCAGCCCCACCTCCGCCGCC  
 ACCCCAGTTTACAAGCTCGTGGGATCACTGGAGCAGGGAAGTCTCCGGACATCTCCCCATACGAAGTG  
 CCCCCGCTCGCCTCCGACGACCCGGCTGGGCTCACCTCCACCACCACCTTCCAGCTCAGCTCGGGCTCG  
 CCCATCCACCTCCCGGACCTTTCCCGAATGGAACCGAGCCTGGGGCCCTGGAAGAGCCCAACCGCTCCA  
 GCTCCCTTTCCCGTGGATGAAATCCACCAAAGCTCACGCGTGGAAAGGCCAGTGGGCAGGAGGTGCTTAC  
 ACAGCGGAACCCGAGGAAAACAAGAGGACCCGACTGCCTACACCCGGGCGCAGCTGCTGGAGCTGGAGA  
 AGGAATTCTTATTTAACAATAACATCTCCCGGCCCGCCGGGTGGAGCTGGCAGTGATGTTGAACTTGAC  
 CGAGAGACACATCAAAATCTGGTTCCAAAACCGTCGCATGAAAGTGAAAAAAGAGGAAGATAAGAAACGT  
 AGTAGCGGGACCCGAGTGGGGCGGTGGGGCGAAGAGCCGGAGCAAGATTGTGCGGTGACCTCGGGCG  
 AGGAGCTGCTGGCAGTGCCACCCTGCCACCTCCCGGAGGTGCCGTGCCCCAGGCGTCCCAGCTGCAGT  
 CCGGGAGGGCCTACTGCCTTCGGGCCTTAGCGTGTGCCACAGCCCTCCAGCATCGGCCACTGCGACCC  
 CAGGAACCCCGG

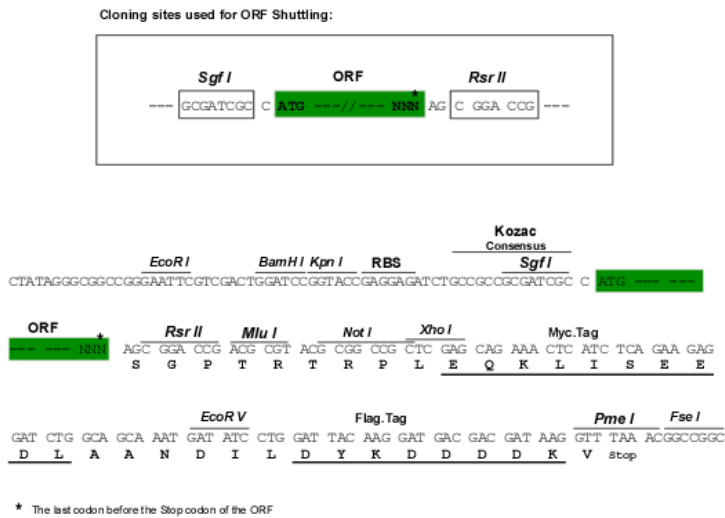
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII



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**Cloning Scheme:**



**ACCN:** NM\_008814

**ORF Size:** 852 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\\_008814.4](#)

**RefSeq Size:** 1287 bp

**RefSeq ORF:** 855 bp

**Locus ID:** 18609

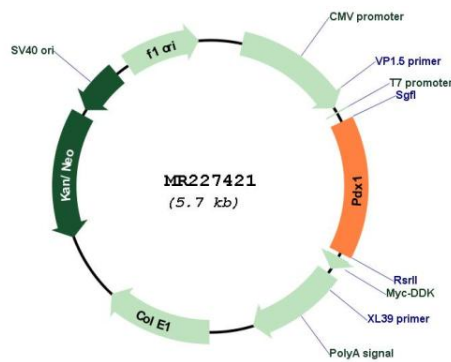
UniProt ID: [P52946](#)

Cytogenetics: 5 86.84 cM

MW: 31.4 kDa

**Gene Summary:** Activates insulin and somatostatin gene transcription. Key regulator of islet peptide hormone expression but also responsible for the development of the pancreas, most probably by determining maturation and differentiation of common pancreatic precursor cells in the developing gut. As part of a PDX1:PBX1b:MEIS2b complex in pancreatic acinar cells is involved in the transcriptional activation of the ELA1 enhancer; the complex binds to the enhancer B element and cooperates with the transcription factor 1 complex (PTF1) bound to the enhancer A element. Binds the DNA sequence 5'-CC[CT]TAATGGG-3'. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR227421