

Product datasheet for **MC209160**

Pdx1 (NM_008814) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pdx1 (NM_008814) Mouse Untagged Clone
Tag: Tag Free
Symbol: Pdx1
Synonyms: IDX-1; IPF-1; Ipf1; Mody4; pdx-1; STF-1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209160 representing NM_008814
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGAACAGTGAGGAGCAGTACTACGCGGCCACACAGCTCTACAAGGACCCGTGCGCATTCCAGAGGGGCC
 CGGTGCCAGAGTTCAGCGCTAACCCCTGCGTGCCTGTACATGGGCCGCCAGCCCCACCTCCGCCGCC
 ACCCCAGTTTACAAGCTCGCTGGGATCACTGGAGCAGGAAGTCTCCGGACATCTCCCATAACGAAGTG
 CCCCCGCTCGCCTCCGACGACCCGGCTGGCGCTCACCTCCACCACCACCTTCCAGCTCAGCTCGGGCTCG
 CCCATCCACCTCCCGGACCTTTCCCGAATGGAACCGAGCCTGGGGCCTGGAAGAGCCCAACCGCGTCCA
 GCTCCCTTTCCCGTGGATGAAATCCACCAAAGCTCACGCGTGGAAAGGCCAGTGGGCAGGAGGTGCTTAC
 ACAGCGGAACCCGAGGAAAACAAGAGGACCCGTAAGTGCCTACACCCGGGCGCAGCTGCTGGAGCTGGAGA
 AGGAATCTTATTTAACAATACATCTCCCGGCCCGCCGGGTGGAGCTGGCAGTGATGTTGAACCTTGAC
 CGAGAGACACATCAAAATCTGGTTCCAAAACCGTCGCATGAAGTGAAAAAGAGGAAGATAAGAAACGT
 AGTAGCGGGACCCGAGTGGGGCGGTGGGGCGAAGAGCCGGAGCAAGATTGTGCGGTGACCTCGGGCG
 AGGAGCTGCTGGCAGTGCCACCGCTGCCACCTCCCGGAGGTGCCGTGCCCCAGGCGTCCAGCTGCAGT
 CCGGGAGGGCCTACTGCCTTCGGGCCTTAGCGTGTGCCACAGCCCTCCAGCATCGCGCCACTGCCACCG
 CAGGAACCCCGGTGA

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_008814
Insert Size: 855 bp



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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).
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:	NM_008814.3 , NP_032840.1
RefSeq Size:	1287 bp
RefSeq ORF:	855 bp
Locus ID:	18609
UniProt ID:	P52946
Cytogenetics:	5 86.84 cM
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]