

Product datasheet for RN215611

Pdx1 (NM_022852) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdx1 (NM_022852) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pdx1
Synonyms:	Idx1; Ipf1; Stf1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN215611 representing NM_022852 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAATAGTGAGGAGCAGTACTACGCGGCCACACAGCTCTACAAGGACCCGTGCGCATTCCAGAGGGGTC
CGGTGCCAGAGTTCAGTGCTAATCCCCCTGCGTGCCTGTACATGGGCCCGCCAGCCCCACCTCCGCCGAC
ACCCAGTTTGCAGGCTCGCTGGGAACGCTGGAACAGGGAAGTCCCCGGACATCTCCCATAACGAAGTG
CCCCGCTCGCCGATGACCCGGCTGGCGGCACCTCCACCACCACCTCCCAGCTCAGCTCGGGCTCGCCC
ATCCACCTCCCGACCTTCCCGAATGGAACCGAGACTGGGGCCTGGAAGAGCCAGCCGCGTTTCATCT
CCCTTCCCGTGGATGAAATCCACCAAAGCTCACGCGTGGAAAAGCCAGTGGGCAGGAGGTGCATACGCA
GCAGAACCGGAGGAGAATAAGAGGACCCGTACAGCCTACACTCGGGCCAGCTGCTGGAGCTGGAGAAGG
AATTCTTATTTAACAATACATCTCCCGCCTCGCCGGGTGGAGCTGGCAGTGTCTCAACTTGACTGA
GAGACACATCAAATCTGGTTCCAAAACCGTCGCATGAAGTGGAAAGAGGAAGATAAGAAACGTAGT
AGCGGGACAACGAGCGGGGGCGGTGGGGGCGAAGAGCCGGAGCAGGATTGTGCCGTAACCTCGGGCGAGG
AGCTGCTGGCATTGCCAAAGCCACCACCTCCCGGAGGTGTTGTGCCCTCAGGCGTCCCTGCTGCTGCCG
GGAGGGCCGACTGCCTCCGGCCTTAGTGCGTCCCCACAGCCCTCCAGCATCGCGCCACTGCGACCCGAG
GAACCCCGG**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-RsrII
ACCN:	NM_022852
Insert Size:	852 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_022852.3 , NP_074043.3
RefSeq Size:	1403 bp
RefSeq ORF:	852 bp
Locus ID:	29535
UniProt ID:	P52947
Cytogenetics:	12p11
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]