

Product datasheet for **SC300025**

PDX1 (NM_000209) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDX1 (NM_000209) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDX1
Synonyms:	GSF; IDX-1; IPF1; IUF1; MODY4; PAGEN1; PDX-1; STF-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_000209 edited
 ATGAACGGCGAGGAGCAGTACTACGCGGCCACGCAGCTTTACAAGGACCCATGCGCGTTC
 CAGCGAGGCCCGCGCCGGAGTTCAGCGCCAGCCCCCTGCGTGCCTGTACATGGGCCGC
 CAGCCCCCGCCGCGCCGCGCACCCGTTCCCTGGCGCCCTGGCGCGCTGGAGCAGGGC
 AGCCCCCGGACATCTCCCCGTACGAGGTGCCCCCTCGCCGACGACCCGCGGTGGCG
 CACCTTACCACCACCTCCCGGCTCAGCTCGCGTCCCCACCCGCCCGGGCCCTTC
 CCGGAGGGAGCCGAGCCGGGCTCCTGGAGGAGCCAACCGGTCCAGCTGCCTTTCCA
 TGGATGAAGTCTACAAAGCTCACGCGTGGAAAGGCCAGTGGGCAGGCGGCGCTACGCT
 GCGGAGCCGGAGGAGAACAAGCGGACGCGCACGGCTACACGCGGCACAGCTGCTAGAG
 CTGGAGAAGGAGTTCTATTCAACAAGTACATCTCACGGCCGCGCGGGTGGAGTGGCT
 GTCATGTTGAACTTGACCGAGAGACACATCAAGATCTGGTTCCAAAACCGCCGCATGAAG
 TGGAAAAAGGAGGAGGACAAGAAGCGCGCGCGGGACAGCTGTCGGGGTGGCGGGTC
 GCGGAGCCTGAGCAGGACTGCGCCTGACCTCCGGCGAGGAGTTCTGGCGCTGCCGCCG
 CCGCCGCCCGGGAGGTGCTGTGCCGCCGCTGCCCCGTTGCCGCCGAGAGGGCCGC
 CTGCCGCTGGCCTTAGCGCGTCCGCACAGCCCTCCAGCGTCGCGCTCGCGGCCGCGAG
 GAACCACGATGA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000209 unedited GGACGTTACATTTGTATACGACTCATATAGGCGGCCGCGNATTCATGAACGGCGGAGGAG CAGTACTACGCGGCCACGCAGCTTTACAAGGACCCATGCGCGTTCAGCGAGGCCCGGCG CCGGAGTTCAGCGCCAGCCCCCTGCGTGCCTGTACATGGGCCGCCAGCCCCCGCGCCG CCGCCGACCCGTTCCCTGGCGCCCTGGGCGCGCTGGAGCAGGGCAGCCCCCTGACATC TCCCCGTACGAGGTGCCCCCTCGCCGACGACCCCGGTGGCGCACCTTCACCACCAC CTCCCCGCTCAGTTCGCGCTCCCCACCCGCGCCCGGGCCCTTCCCGAGGGAGCCGAA CCGGCGTCTTGAGGAGCCCAACCGCTCCAGCTGCCTTTCCCATGGATGAAGTCTACC AAAGCTCACGCGTGGAAAAGGCCAGTGGGAGGGCGCGCCTACGCTGCGGAGCCGGAGGAG AACAAAGCGGACGCGCACGGCCTACACGCGCGCACAGCTGCTAGAGCTGGAGAAGGAGTTC CTATTAACAAGTACATCTCACGGCCGCGCGGGTGGAGCTGGCTGTCATGTTGAACTTG ACCGAGAGACACATCAAGATCTGGTTCCAAAACCGCCGCATGAAGTGGAAAAAGGAGGAG GACAAGAAGCGCGCGCGGGACAGCTGTCGGGGTGGGCGNNGTCGCGGAGCCTGAGC AGGACTGCGCCGTGACCTCCGGCGAGGAGCTTTGGGCGTCCCGCCGCGCCCGCCGGG GAGGGGCTGTGCCGCCGCTGCCCCGTTGCCGCCGAGAGGGCCGCTGCCGCTGGC CTTAGCGCTCGGCACAGCCCTTCAGCGTGGCGCCTCGGGCGGCCGAGGAACCACGG
Restriction Sites:	Please inquire
ACCN:	NM_000209
Insert Size:	900 bp
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:	There are 2 nucleotide differences between the OriGene clone and the NCBI reference ORF, but these are silent and do not change the amino acid sequence of the deduced protein.
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_000209.1</u> , <u>NP_000200.1</u>
RefSeq Size:	1525 bp
RefSeq ORF:	852 bp
Locus ID:	3651
UniProt ID:	<u>P52945</u>
Cytogenetics:	13q12.2

Protein Families:	Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors
Protein Pathways:	Maturity onset diabetes of the young, Type II diabetes mellitus
Gene Summary:	The protein encoded by this gene is a transcriptional activator of several genes, including insulin, somatostatin, glucokinase, islet amyloid polypeptide, and glucose transporter type 2. The encoded nuclear protein is involved in the early development of the pancreas and plays a major role in glucose-dependent regulation of insulin gene expression. Defects in this gene are a cause of pancreatic agenesis, which can lead to early-onset insulin-dependent diabetes mellitus (IDDM), as well as maturity onset diabetes of the young type 4 (MODY4). [provided by RefSeq, Aug 2017]