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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:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

```
>OriGene ORF sequence for NM_000209 edited
ATGAACGGCGAGGAGCAGTACTACGCGGCCACGCAGCTTTACAAGGACCCATGCGCGTTC
CAGCGAGGCCCGGCGCCGGAGTTCAGCGCCAGCCCCCCTGCGTGCCTGTACATGGGCCGC
CAGCCCCCGCCGCCGCCGCCGCACCCGTTCCCTGGCGCCCTGGGCGCGCTGGAGCAGGGC
AGCCCCCCGGACATCTCCCCGTACGAGGTGCCCCCCCTCGCCGACGACCCCGCGGTGGCG
CACCTTCACCACCACCTCCCGGCTCAGCTCGCGCTCCCCCACCCGCCCGCCGGGCCCTTC
CCGGAGGGAGCCGAGCCGGGCGTCCTGGAGGAGCCCAACCGCGTCCAGCTGCCTTTCCCA
TGGATGAAGTCTACCAAAGCTCACGCGTGGAAAGGCCAGTGGGCAGGCGGCGCCTACGCT
GCGGAGCCGGAGGAGAACAAGCGGACGCGCACGGCCTACACGCGCGCACAGCTGCTAGAG
CTGGAGAAGGAGTTCCTATTCAACAAGTACATCTCACGGCCGCGCCGGGTGGAGCTGGCT
GTCATGTTGAACTTGACCGAGAGACACATCAAGATCTGGTTCCAAAACCGCCGCATGAAG
TGGAAAAAGGAGGAGGACAAGAAGCGCGGCGGCGGGACAGCTGTCGGGGGTGGCGGGGTC
GCGGAGCCTGAGCAGGACTGCGCCGTGACCTCCGGCGAGGAGCTTCTGGCGCTGCCGCCG
CCGCCGCCCCCCGGAGGTGCTGTGCCGCCCGCTGCCCCCGTTGCCGCCCGAGAGGGCCGC
CTGCCGCCTGGCCTTAGCGCGTCGCCACAGCCCTCCAGCGTCGCGCCTCGGCGGCCGCAG
GAACCACGATGA
```

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5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_000209 unedited
GGACGTTCACATTTGTATACGACTCATATAGGCGGCCGCGNATTCATGAACGGCGAGGAG
CAGTACTACGCGGCCACGCAGCTTTACAAGGACCCATGCGCGTTCCAGCGAGGCCCGGCG
CCGGAGTTCAGCGCCAGCCCCCCTGCGTGCCTGTACATGGGCCGCCAGCCCCCGCCGCCG
CCGCCGCACCCGTTCCCTGGCGCCCTGGGCGCGCTGGAGCAGGGCAGCCCCCCTGACATC
TCCCCGTACGAGGTGCCCCCCCTCGCCGACGACCCCGCGGTGGCGCACCTTCACCACCAC
CTCCCGGCTCAGCTCGCGCTCCCCCACCCGCCCGCCGGGCCCTTCCCGGAGGGAGCCGAA
CCGGGCGTCCTGGAGGAGCCCAACCGCGTCCAGCTGCCTTTCCCATGGATGAAGTCTACC
AAAGCTCACGCGTGGAAAGGCCAGTGGGCAGGCGGCGCCTACGCTGCGGAGCCGGAGGAG
AACAAGCGGACGCGCACGGCCTACACGCGCGCACAGCTGCTAGAGCTGGAGAAGGAGTTC
CTATTCAACAAGTACATCTCACGGCCGCGCCGGGTGGAGCTGGCTGTCATGTTGAACTTG
ACCGAGAGACACATCAAGATCTGGTTCCAAAACCGCCGCATGAAGTGGAAAAAGGAGGAG
GACAAGAAGCGCGGCGGCGGGACAGCTGTCGGGGGTGGGCGGNNGTCGCGGAGCCTGAGC
AGGACTGCGCCGTGACCTCCGGCGAGGAGCTTTGGGCGCTGCCGCCGCCGCGCCCCCGGG
GAGGGGGCTGTGCCGCCCGCTGCCCCCGTTGCCGCCCGAGAGGGCCGCCTGCCGCCTGGC
CTTAGCGCGTCGGCACAGCCCTTCAGCGTGGCGCCTCGGGCGGCCGCAGGAACCACGG
```

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:
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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_000209.1, NP_000200.1

RefSeq Size: 1525 bp

RefSeq ORF: 852 bp

Locus ID: 3651

UniProt ID: P52945

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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]

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