

My Account

Login
Create Account

Resources

View All (813)
Adenoviruses (137)
Antibodies (175)
Bioimages (67)
Genomics Studies (145)
mESC Lines (68)
Mouse Strains (120)
Miscellaneous (46)
Protocols (55)
Research Data (4)
Resource Tags (389)
Visualization (9)



Research & Cores

Core Facilities (5)
Research Highlights (5)
Research Networks
Research Objectives

Information

About the BCBC
BCBC Events
Branding & Logos
Career Opportunities
Health
NIH hESC Registry
Policies & Guidelines
Member Publications
Research Programs
Research Investigators
Member Directory
Tutorials

Pdx1 Cistrome of Pancreatic Islets - Study GBCO4474**Genomics Study Specifications**

| | |
|----------------------------|--|
| Study Name | Pdx1 Cistrome of Pancreatic Islets |
| Contact Name | Doris A. Stoffers (University of Pennsylvania) |
| Publication | http://www.ncbi.nlm.nih.gov/pubmed/22322596 |
| My Strategies | Return to My Strategies page |
| Classification | Targets and roles of transcriptional regulators |
| Links |  Biomaterials Graph  ArrayExpress |
| BCBC Release Date | July 23, 2012 |
| Public Release Date | July 23, 2012 |
| Citation | Khoo C, Yang J, Weinrott SA, Kaestner KH, Naji A, Schug J, Stoffers DA. Research resource: the pdx1 cistrome of pancreatic islets . <i>Mol Endocrinol.</i> 2012. 26:521-33 |

Synopsis

| | | |
|--------------------------|---------|-------------|
| Study Description | Goals | |
| Approaches | Results | Conclusions |
| Related Studies | | |

Despite the central role Pdx1 plays in pancreatic development and adult beta-cell function, we have only rudimentary knowledge of the transcriptome targets of Pdx1 that mediate these phenotypes. Therefore, global location analysis of Pdx1 occupancy in pancreatic islets was performed. The evolutionary conservation of target genes was used to identify the most relevant Pdx1 targets by performing chromatin immunoprecipitation sequencing on both human and mouse islets.

| | |
|--------------------------|--|
| Platform types | TF Binding ChIP-Seq, TF Binding |
| Platforms | Not available |
| Study Design Type | <ul style="list-style-type: none"> binding_site_identification_design |
| Study Factors | Show study factors |
| Study Assays | Show study assays |

Access to Study Data


This Study Data is publicly available to all users.

Gene List(s)


Use the following form(s) to refine the parameters and add the gene list to a strategy:

▼ [Pdx1 versus Input ChIP in Mouse Islets](#)

Access Status

 This resource is publicly viewable.

Request this Resource

 Request from a repository

Primary contributor: [Stoffers Lab](#)


Resource Tags

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Resource History & Actions

Approved on Jul 23, 2012
Last modified on Aug 07, 2012

 Login to edit or request an edit

Related resources**BCBC**

No matching resources

Other Consortia

No matching resources

Data courtesy of [dkCOIN](#). Only public resources are displayed.

|Fold Change| Greater Than:

Confidence Level: High Confidence All Results

For a microarray experiment a result with high confidence has a confidence level of at least 80%.

For a ChIP-chip experiment a result with high confidence has a confidence level of at least 90% and all fold changes are positive.

Reference (Denominator): Input

▶ **Pdx1 versus Input ChIP in Human Islets**

Genome Browser

Browse related tracks on the genome browser by clicking on the link(s) below:

- [View tracks for this study in the region near the PBX1 gene](#) PDX1 Binding Peak Calls and Coverage; Input Coverage

- [View tracks for this study in the region near the Pbx1 gene](#) Pdx1 Binding Peak Calls and Coverage; Input Coverage

Lists of Locations

Use the following form(s) to refine the parameters and add the list of genomic sequences corresponding to peak calls to a strategy. Depending on your choices, these searches may be slow.

Pdx1 Binding in Mouse Islets

Retrieve:

Whole Genome

Peaks in a Region of Interest (specify below):

Enter a region (e.g., chr:start-stop) or enter just the chromosome (e.g., chr12 or chrX) to search for peaks on a single chromosome. Select the "Whole Genome" option or leave the text box blank to return all results from this analysis.

▶ **Pdx1 Binding in MIN6 Cells**

▶ **Pdx1 Binding in Human Islets**

Repositories

Stoffers Lab

Stock #: *Not provided*
Availability Notes: *Not provided*

Stoeckert Lab

Stock #: *Not provided*
Availability Notes: *Not provided*

Comments

There are no comments for this entry.

