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# 8-12 week old Pdx1+/- vs Pdx1+/+ mouse littermates - Study GBCO3975

## Genomics Study Specifications

| | |
|---|---|
| **Study Name** | 8-12 week old Pdx1+/- vs Pdx1+/+ mouse littermates |
| **Contact Name** | David Groff (University of Pennsylvania) |
| **Publication** | http://www.ncbi.nlm.nih.gov/pubmed/19855005 |
| **My Strategies** | Return to My Strategies page |
| **Classification** | Islet/beta-cell stimulation/injury; Cell stimulation/injury; Targets and roles of transcriptional regulators |
| **Links** | Biomaterials Graph<br>ArrayExpress |
| **BCBC Release Date** | July 21, 2010 |
| **Public Release Date** | July 21, 2010 |
| **Citation** | Sachdeva MM, Claiborn KC, Khoo C, Yang J, Groff DN, Mirmira RG, Stoffers DA. Pdx1 (MODY4) regulates pancreatic beta cell susceptibility to ER stress. Proc Natl Acad Sci U S A. 2009. 106:19090-5 |
| **Synopsis** | Study Description \| Goals \| Approaches \| Results \| Conclusions \| Related Studies<br>The aim of this experiment was to use global gene expression profiling to identify genes that are differentially expressed in the islets from Pdx1+/- mice compared to islets isolated from Pdx1 +/+ littermates. The Pdx1 null mutation consists of a nuclear targeted _-galactosidase cassette fused in-frame with the N terminus of PDX-1. |
| **Platform types** | Expression, Expression microarray |
| **Platforms** | Show platform Mouse PancChip |
| **Study Design Type** | • co-expression_design<br>• dye_swap_design<br>• genetic_modification_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 WT mouse islets

## Access Status

This resource is publicly viewable.

## Request this Resource

Request from a repository

Primary contributor: Stoffers Lab

## Resource Tags

Ero1lb, Mouse PancChip 6.1 Mafa, Nnat, Pax4, Pdx1, pdx1, Slc2a2

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## Resource History & Actions

Approved on Jul 21, 2010
Last modified on Jan 17, 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: 1.5

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): WT Islets

Find Genes

## Genome Browser

*There are no genome browser tracks currently available for this study.*

## Lists of Locations

*There are no genomic location datasets currently available for this study.*

## Repositories

**Stoffers Lab**

Request this resource

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

## Comments

*There are no comments for this entry.*

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