


 Search

- Home
 - Genomics
 - News & Information
 - Research
 - Cores
 - Resources
 - People
 - Workspaces
 - My Account
 - About Us
-
- All
 - Adenoviruses
 - Antibodies
 - Bioimages
 - mESC Lines
 - Mouse Strains
 - Genomics Studies
 - Protocols
 - Miscellaneous
 - Research Data
 - Visualization

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

HNF4alpha in beta cell function - Study GBCO1050

Genomics Study Specifications

| | |
|----------------------------|---|
| Study Name | HNF4alpha in beta cell function |
| Contact Name | Klaus Kaestner (University of Pennsylvania) |
| Publication | http://www.ncbi.nlm.nih.gov/pubmed/17185391 |
| My Strategies | Return to My Strategies page |
| Classification | Targets and roles of transcriptional regulators |
| Links | Biomaterials Graph ArrayExpress |
| BCBC Release Date | March 05, 2004 |
| Public Release Date | March 05, 2004 |
| Citation | Hardy OT, Hohmeier HE, Becker TC, Manduchi E, Doliba NM, Gupta RK, White P, Stoeckert CJ, Matschinsky FM, Newgard CB, Kaestner KH. Functional genomics of the beta-cell: short-chain 3-hydroxyacyl-coenzyme A dehydrogenase regulates insulin secretion independent of K+ currents. Mol Endocrinol. 2007. 21:765-73 |

Synopsis

Study Description
Goals

Approaches
Results
Conclusions

Related Studies

The aim of this experiment was to use microarray analysis to examine the phenotype of dis-regulated insulin secretion and abnormal beta cell growth in HNF4 alpha null mice. These mice show impaired glucose tolerance and elevated fasting and fed plasma insulin levels. Rana Gupta from Klaus Kaestner's Lab extracted RNA from isolated islets. Three controls and five mutants were provided for the study.

| | |
|--------------------------|--|
| Platform types | Expression microarray, Expression |
| Platforms | Show platform Mouse PancChip |
| Study Design Type | <ul style="list-style-type: none"> • dye_swap_design • 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:

▼
Hnf-4alpha(loxP/loxP);Ins.CRE versus Wild Type - Adult Mouse Islets

Access Status

This resource is publicly viewable.

Request this Resource

Request from a repository

Primary contributor: [Kaestner Lab](#)
 Co-contributed by:
 • [Stoeckert Lab](#)

Resource Tags

- [Login to edit tags](#)
- [Read more about tags](#)

Resource History & Actions

Approved on Mar 05, 2004
 Last modified on Aug 02, 2011

[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): control

[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

Kaestner Lab


 Request this resource

Stock #: *Not provided*

Availability Notes: *Not provided*

Comments

There are no comments for this entry.

 Login to add comments

