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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

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Resource History & Actions

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

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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.

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