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Neurogenin3 deficiency and Embryonic Pancreatic Gene Expression - Study GBCO3021

Genomics Study Specifications

| | |
|----------------------------|--|
| Study Name | Neurogenin3 deficiency and Embryonic Pancreatic Gene Expression |
| Contact Name | R Scott Heller (Hagedorn Research Institute) |
| Publication | http://www.ncbi.nlm.nih.gov/pubmed/17032746 |
| My Strategies | Return to My Strategies page |
| Classification | Pancreas development and growth |
| Links |  Biomaterials Graph  ArrayExpress |
| BCBC Release Date | May 25, 2007 |
| Public Release Date | May 17, 2007 |
| Citation | Petri A, Ahnfelt-Ronne J, Frederiksen KS, Edwards DG, Madsen D, Serup P, Fleckner J, Heller RS. The effect of neurogenin3 deficiency on pancreatic gene expression in embryonic mice. <i>J Mol Endocrinol.</i> 2006. 37:301-16 |

Synopsis**Study Description**

Goals

Approaches

Results


Conclusions

Related Studies


This experiment was designed to analyze the expression of genes in dorsal pancreatic cells at two temporally separated stages of pancreas development. This was accomplished by comparing expression profiles of embryonic dorsal pancreas tissue from Ngn3 null mice with wild-type littermates at days 13 and 15 of embryonic development. The comparison of gene expression in mutant and wild-type pancreas was used primarily to show genes that are lower expressed/missing in the mutant, as Ngn3 null mice have no endocrine pancreas tissue. From each developmental stage, five wild-type and five mutant samples were chosen, representing embryos from at least three different litters. Wild-type and mutant samples from the common stage of development were paired randomly and analysed in flipped colour. Probes were spotted in duplicate on each slide in a randomised (fixed) layout, effectively distributing the duplicate spots randomly over the slide.

| | |
|--------------------------|---|
| Platform types | Expression, Expression microarray |
| Platforms | Show platform LION Mouse cDNA array |
| Study Design Type | <ul style="list-style-type: none"> development_or_differentiation_design dye_swap_design genetic_modification_design |
| Study Factors | Show study factors |
| Study Assays | Show study assays |

Access to Study Data**Access Status**

 This resource is publicly viewable.


Request this Resource


 Request from a repository

Primary contributor: [Antibody Core \(Retired\)](#)

Resource Tags


ArrayTAG 20k murine gene collection
Rhbdl3, GO:0006729, Iroquois related homeobox 1 (Drosophila), Iroquois related homeobox 2 (Drosophila), Irx1, Irx2, LION Mouse cDNA array, Neurog3, neurogenin 3, Ngn3, ngn3, Rhbdl4, rhomboid, tetrahydrobiopterin biosynthesis, veinlet-like 3 (Drosophila)

 Login to edit tags

 Read more about tags

Resource History & Actions

Approved on May 25, 2007
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.

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:

Ngn3 Knock-out versus Wild Type - E13.5 Mouse Pancreas

|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): Wild Type

▶ **Ngn3 Knock-out versus Wild Type - E13.5 Mouse Pancreas**

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


Antibody Core (Retired)

 Request this resource

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

Comments

There are no comments for this entry.

 Login to add comments

