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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)

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 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

