

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

Chromatin immunoprecipitation of mouse pancreatic beta and acinar cells, embryonic stem cells, Pdx1-expressing endocrine progenitors and 10 other normal adult tissues - Study GBCO4114

Genomics Study Specifications

Study Name	Chromatin immunoprecipitation of mouse pancreatic beta and acinar cells, embryonic stem cells, Pdx1-expressing endocrine progenitors and 10 other normal adult tissues
Contact Name	Jorge Ferrer (Hospital Clinic de Barcelona)
Publication	http://www.ncbi.nlm.nih.gov/pubmed/20395405
My Strategies	Return to My Strategies page
Classification	Tissue expression, surveys and comparisons; Pancreas development and growth
Links	 Biomaterials Graph  ArrayExpress
BCBC Release Date	April 19, 2011
Public Release Date	April 19, 2011
Citation	van Arensbergen J, Garcia-Hurtado J, Moran I, Maestro MA, Xu X, Van de Casteele M, Skoudy AL, Palassini M, Heimberg H, Ferrer J. Derepression of Polycomb targets during pancreatic organogenesis allows insulin-producing beta-cells to adopt a neural gene activity program . Genome Res. 2010. 20:722-32

Synopsis

Study Description	Goals	
Approaches	Results	Conclusions
Related Studies		


To gain insights into how pancreatic beta-cells are programmed in vivo, we profiled key histone methylations (H3K4/K27me3) in embryonic stem cells, multipotent progenitors of the nascent embryonic pancreas, purified beta-cells, and 10 other adult tissues (all under normal, untreated conditions). For these cells we also purified RNA to analyze tissue specific genome wide transcription levels in relation to histone modifications. This study refers to the epigenomics component of such work. Corresponding RNA microarrays can be found in Array Express under accession E-TABM-906.

Platform types	Epigenomic, Histone modification ChIP-chip
Platforms	Not available
Study Design Type	<ul style="list-style-type: none"> co-expression_design in_vivo_design organism_part_comparison_design
Study Factors	Show study factors
Study Assays	Show study assays


Access to Study Data

This Study Data is publicly available to all users.

Access Status

 This resource is publicly viewable.

Request this Resource

 Request from a repository

Primary contributor: [Ferrer Lab](#)

Resource Tags


affymetrix genechip mouse promoter 1.0r array, h3k27me3, h3k4me3, lhx1, rest, tox3

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 Read more about tags

Resource History & Actions

Approved on Apr 19, 2011
Last modified on Nov 19, 2013

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Related resources**BCBC**

No matching resources

Other Consortia

No matching resources

Data courtesy of [dkCOIN](#). Only public resources are displayed.

Gene List(s)

There are no gene lists currently available for this study.

Genome Browser

Browse related tracks on the genome browser by clicking on the link(s) below:

[View tracks for this study in the region near the Pdx1 gene](#) H3K4me3 and H3K27me3 Peak Calls (Tissue Survey)

Lists of Locations

Use the following form(s) to refine the parameters and add the list of genomic sequences corresponding to peak calls to a strategy. Depending on your choices, these searches may be slow.

H3K27me3 Histone Modification in Murine Pdx1-expressing Endocrine Progenitor Cells (CisGenome Peak Calls)

Retrieve:

Whole Genome
 Peaks in a Region of Interest (specify below):


Enter a region (e.g., chr:start-stop) or enter just the chromosome (e.g., chr12 or chrX) to search for peaks on a single chromosome. Select the "Whole Genome" option or leave the text box blank to return all results from this analysis.

H3K4me3 Histone Modification in Murine Pdx1-expressing Endocrine Progenitor Cells (CisGenome Peak Calls)

- ▶ H3K27me3 Histone Modification in Murine Acinar Cells (CisGenome Peak Calls)
- ▶ H3K4me3 Histone Modification in Murine Acinar Cells (CisGenome Peak Calls)
- ▶ H3K27me3 Histone Modification in Murine Adipose Tissue (CisGenome Peak Calls)
- ▶ H3K4me3 Histone Modification in Murine Adipose Tissue (CisGenome Peak Calls)
- ▶ H3K27me3 Histone Modification in Murine Cerebellum (CisGenome Peak Calls)
- ▶ H3K4me3 Histone Modification in Murine Cerebellum (CisGenome Peak Calls)
- ▶ H3K27me3 Histone Modification in Murine Cortex (CisGenome Peak Calls)
- ▶ H3K4me3 Histone Modification in Murine Cortex (CisGenome Peak Calls)
- ▶ H3K27me3 Histone Modification in Murine ESC (CisGenome Peak Calls)
- ▶ H3K4me3 Histone Modification in Murine ESC (CisGenome Peak Calls)
- ▶ H3K27me3 Histone Modification in Murine Islets (CisGenome Peak Calls)
- ▶ H3K4me3 Histone Modification in Murine Islets (CisGenome Peak Calls)
- ▶ H3K27me3 Histone Modification in Murine Kidney (CisGenome Peak Calls)
- ▶ H3K4me3 Histone Modification in Murine Kidney (CisGenome Peak Calls)
- ▶ H3K27me3 Histone Modification in Murine Liver (CisGenome Peak Calls)
- ▶ H3K4me3 Histone Modification in Murine Liver (CisGenome Peak Calls)
- ▶ H3K27me3 Histone Modification in Murine Lung (CisGenome Peak Calls)
- ▶ H3K4me3 Histone Modification in Murine Lung (CisGenome Peak Calls)
- ▶ H3K27me3 Histone Modification in Murine Muscle (CisGenome Peak Calls)
- ▶ H3K4me3 Histone Modification in Murine Muscle (CisGenome Peak Calls)
- ▶ H3K27me3 Histone Modification in Murine Preputial Gland (CisGenome Peak Calls)
- ▶ H3K4me3 Histone Modification in Murine Preputial Gland (CisGenome Peak Calls)
- ▶ H3K27me3 Histone Modification in Murine Submandibular Gland (CisGenome Peak Calls)
- ▶ H3K4me3 Histone Modification in Murine Submandibular Gland (CisGenome Peak Calls)
- ▶ H3K27me3 Histone Modification in Murine Beta Cells (CisGenome Peak Calls)
- ▶ H3K4me3 Histone Modification in Murine Beta Cells (CisGenome Peak Calls)

Repositories


Ferrer Lab

 Request this resource

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

Comments

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