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Comparison of endocrine enriched genes in islet beta cells versus induced beta cells - Study GBCO3549

Genomics Study Specifications

Study Name	Comparison of endocrine enriched genes in islet beta cells versus induced beta cells
Contact Name	Douglas Melton (Harvard University)
Publication	http://www.ncbi.nlm.nih.gov/pubmed/18754011
My Strategies	Return to My Strategies page
Classification	Targets and roles of transcriptional regulators; Pancreas development and growth
Links	Biomaterials Graph GEO
BCBC Release Date	February 09, 2009
Public Release Date	February 09, 2009
Citation	Zhou Q, Brown J, Kanarek A, Rajagopal J, Melton DA. In vivo reprogramming of adult pancreatic exocrine cells to beta-cells. Nature. 2008. 455:627-32
Synopsis	Study Description | Goals | Approaches | Results | Conclusions | Related Studies Endocrine enriched genes in adult islet beta cells were identified and compared with that of induced beta cells (with M3 transcription factors) in adult. The control sample is non-beta pancreatic cells. Gene expression profile comparison of 3 samples, 3 independent repeats for each sample indicate a high degree of similarity between endogenous and induced beta cells in adult mouse.
Platform types	Expression microarray, Expression
Platforms	Show platform Illumina mouseRef-8 v1.1 expression beadchip
Study Design Type	• cell_type_comparison_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:

Mouse induced beta cells versus non-islet pancreatic cells

Access Status

This resource is publicly viewable.

Request this Resource

Request from a repository

Primary contributor: Melton Lab
Co-contributed by:
- Stoeckert Lab

Resource Tags

1a, Amy2, amylase, amylase 2, beta 3, Gcg, Gck, glucagon, glucokinase, Glut2, Illumina mouseRef-8 v1.1 expression beadchip, Ins2, insulin, insulin II, Isl1, ISL1 transcription factor, keratin 19, Krt19, LIM/homeodomain, locus 2 (Drosophila), Mafa, member 2, Nes, nestin, Neurod, Neurod1, Neurog3, neurogenic differentiation 1, neurogenin 3, ngn3, NK2 transcription factor related, NK6 homeobox 1, Nkx2-2, Nkx2.2, Nkx6-1, Nkx6.1, paired box gene 4, paired box gene 6, pancreas specific transcription factor, pancreatic, pancreatic and duodenal homeobox 1, pancreatic polypeptide, Pax4, Pax6, Pcsk1, Pdx1, Ppy, proprotein convertase subtilisin/kexin type 1, protein A (avian), Ptf1a, Slc2a2, solute carrier family 2 (facilitated glucose transporter), somatostatin, Sst, test, Tubb3, tubulin, Vim, vimentin, v-maf musculoaponeurotic fibrosarcoma oncogene family

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Resource History & Actions

Approved on Feb 09, 2009
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: 1.5

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): Non-islet pancreatic cells

Find Genes

Mouse whole islet cells versus non-islet pancreatic cells

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

Melton Lab

Request this resource

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

Comments

There are no comments for this entry.

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