E11.5 Mouse Endodermal Organ Gene Expression - Study GBCO3547

Genomics Study Specifications

**Study Name**
E11.5 Mouse Endodermal Organ Gene Expression

**Contact Name**
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**Publication**

**My Strategies**
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**Classification**
Tissue expression, surveys and comparisons

**BCBC Release Date**
February 09, 2009

**Public Release Date**
February 09, 2009

**Citation**

**Synopsis**

To study gene expression during endodermal organogenesis, we sought to identify genes expressed in restricted domains during organogenesis. For gene expression analysis, six morphologically distinct endodermal domains were dissected at E11.5: the esophageal region; the lung and distal tracheal region; the stomach region; the hepatic region; the dorsal and ventral pancreatic region; and the intestinal region. Through flow cytometric separation using EpCAM expression to distinguish endoderm from surrounding mesenchyme, pure populations of endoderm progenitors from the esophageal, lung, stomach, pancreas, and intestinal regions were isolated. Expression of Lvi2 was used to isolate a pure population of hepatic endoderm progenitors.

**Platform types**
Expression, Expression microarray

**Platforms**
Show platform Illumina MouseRef-8 v2.0 expression beadchip

**Study Design Type**
- development_or_differentiation_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.

Gene List(s)
Browse related gene lists by clicking on the link(s) below:

- Endodermal Organ Expression
- Query for transcription factors expressed in various endodermal organs

Genome Browser

Access Status
This resource is publicly viewable.

Request this Resource

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

Resource Tags
1, 1a, Abcc8, alpha, alpha polypeptide 4, ATP-binding cassette, cadherin, Cark, carbohydrate sulfotransferase 2, carbonic anhydrase 9, causal type home box 2, Cebp/p300 interacting transactivator with Glu/Asp-rich carboxy-terminal domain 1, Cdx2, Celp3, cholinergic receptor, Chrm4, Cht2, Chtld, delta 2, delta-like 1 homolog (Drosophila), Dlx1, Drosophila, EGFR LAG seven-pass G-type receptor 3 (flamingo homolog, Epcam, epithelial cell adhesion molecule, family member 2, family member 3, Flac2, fibronectin leucine rich transmembrane protein 2, Fnt2, forkhead box A2, Foxa3, free fatty acid receptor 2, gamma 4, gap junction protein, Gata6, GATA binding protein 6, Gna3, Gnt2, glial cell line derived neurotrophic factor family receptor alpha 3, Gnr4, Gro4, group A guanine nucleotide binding protein (G protein), hematoepitoidically expressed homeobox, hepatic nuclear factor 4, Hhex, Hhi1, Hhi4a, Illumina MouseRef-8 v2.0 expression beadchip, Kcnk3, ligand-gated ion channel, locus 2 (Drosophila), low density lipoprotein receptor-related protein 11, Lyp1, Melton, member 2, member 3, member 4, member 5, Mnx1, motor neuron and pancreas homeobox 1, mouse, myelin transcription factor 1, Myt1, Neurog3, neurogenin 3, Ngn2, nicotin, Nk2 transcription factor related, Nk6 homeobox 1, Noko2-2, Noko2-2, Noko6-1, Noko6-1, NHzc2, nuclear receptor subfamily 5, Onecut2, Onecut3, one cut domain, PDX1, pancreas specific transcription factor, Pop2, potassium channel, prospero-related homeobox 1, protocadherin 21, Prox1, PTH1a, purinergic receptor PX2, retinoid X receptor gamma, Rxr, seizure related homolog 2, Sert6, Slc3a8, solute carrier family 38, Sox2, SRY-box containing gene 2, subfamily C (CFTR/MRP), subfamily K, synaptophysin, Syp, Tcf15, Tmem27, transcription factor 15, transmembrane protein 27

Citing the BCBC

Approved on Feb 09, 2009
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Access History & Actions

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Generated on July 31, 2015
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

Stock #: Not provided
Availability Notes: Not provided

Comments

There are no comments for this entry.

Related resources

BCBC
No matching resources

Other Consortia
No matching resources

Data courtesy of dkCOIN. Only public resources are displayed.