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DNase-seq profile of mES cells treated with PFA/Noco/5aza, at different timepoints within in vitro mouse differentiation protocols, or in the presence of a NFYA dominant negative construct - Study GBCO4767

Genomics Study Specifications

| | |
|--------------------------|--|
| Study Name | DNase-seq profile of mES cells treated with PFA/Noco/5aza, at different timepoints within in vitro mouse differentiation protocols, or in the presence of a NFYA dominant negative construct |
| Contact Name | David Gifford (MIT) |
| Publication | http://www.ncbi.nlm.nih.gov/pubmed/24441470 |
| My Strategies | Return to My Strategies page |
| Classification | Cell differentiation; Differentiation of insulin-producing cells |
| Links |  Biomaterials Graph  ArrayExpress |
| BCBC Release Date | April 01, 2014 |
| Citation | Sherwood RI, Hashimoto T, O'Donnell CW, Lewis S, Barkal AA, van Hoff JP, Karun V, Jaakkola T, Gifford DK. Discovery of directional and nondirectional pioneer transcription factors by modeling DNase profile magnitude and shape . Nat Biotechnol. 2014. 32:171-8 |

Synopsis**Study Description**

Goals

Approaches

Results

Conclusions

Related Studies

The aim of this experiment was to profile the DNase-I accessibility landscape in mES when treated with various factors effecting genomic methylation, at day 5 of a non-standard in vitro mouse differentiation protocol, and at days 2, 3, 5, 6, 7 within our in vitro pancreas mouse differentiation protocol, as well as day 6 along an intestinal branch (int) and day 7 along an anterior endoderm branch (ae). The profiles surrounding the binding sites of NFYA were studied in the presence of a NFYA dominant negative construct. Separate fractions were taken for DNA cleavages of length 50-100bp and 175-400bp.

| | |
|--------------------------|--|
| Platform types | Open chromatin DNase-Seq |
| Platforms | Not available |
| Study Design Type | <ul style="list-style-type: none"> compound_treatment_design growth_condition_design |
| Study Factors | Show study factors |
| Study Assays | Show study assays |


Access to Study Data

To access the Study Data you must "Request this Resource" (below) and the supplier must fill your Request. Then Beta Cell Genomics will contact you with details on how to access the data.


Gene List(s)

To access this study's gene list(s) you must "Request this Resource" (below) and the supplier

Access Status

 This resource is publicly viewable.

Request this Resource

 Request from a repository

Primary contributor: [Melton Lab](#)

Resource Tags

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Resource History & Actions

Approved on Apr 01, 2014
Last modified on Apr 15, 2014

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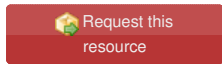
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Data courtesy of [dkCOIN](#). Only public resources are displayed.

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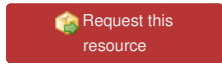
Repositories

Melton Lab



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

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

Comments

There are no comments for this entry.

