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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	• 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.

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Request from a **repository**

Primary contributor: **Melton Lab**

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

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