

ChIP-Atlas の使い方とその応用

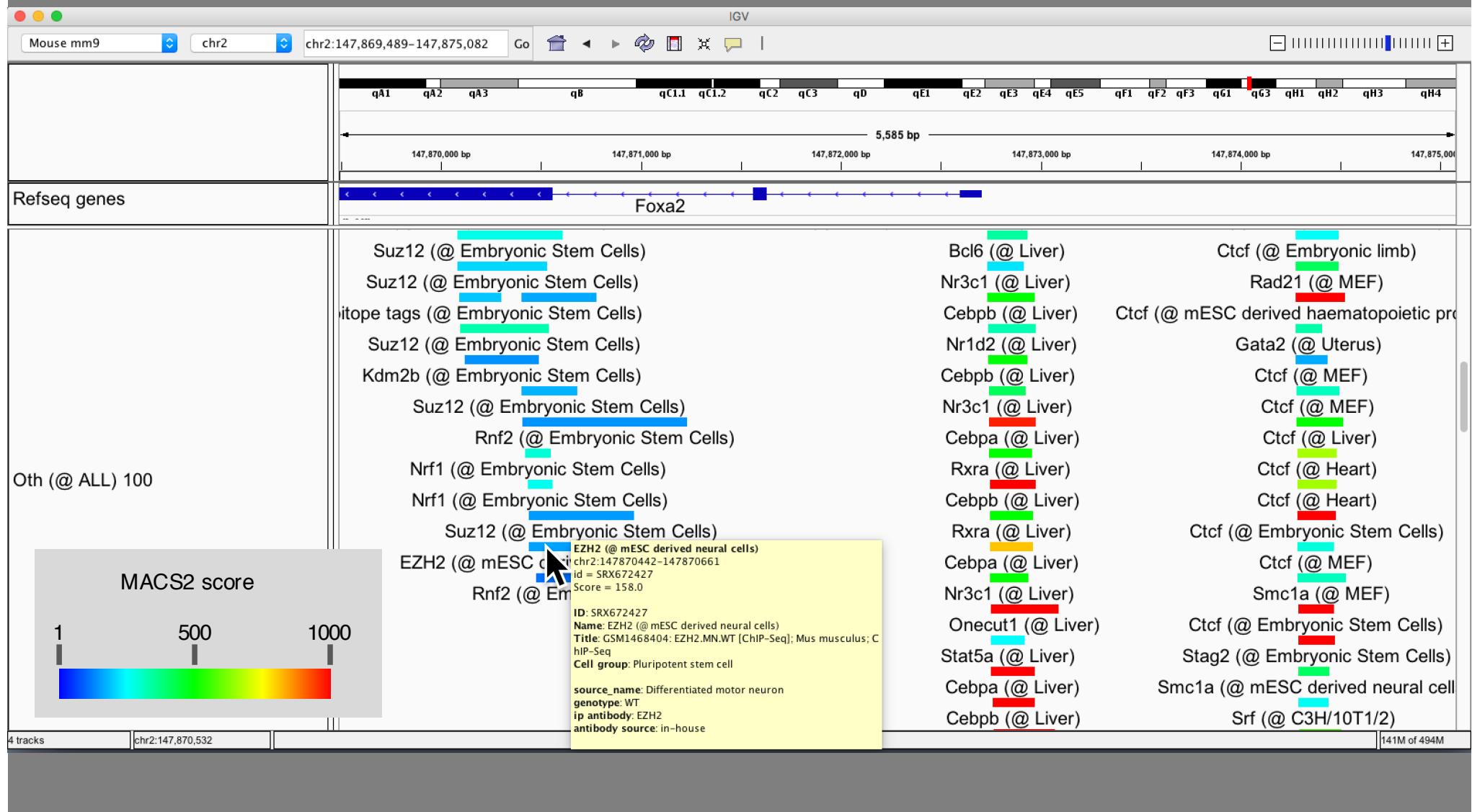


九州大学大学院・医学研究院
発生再生医学分野・助教

沖 真弥 (Oki, Shinya)

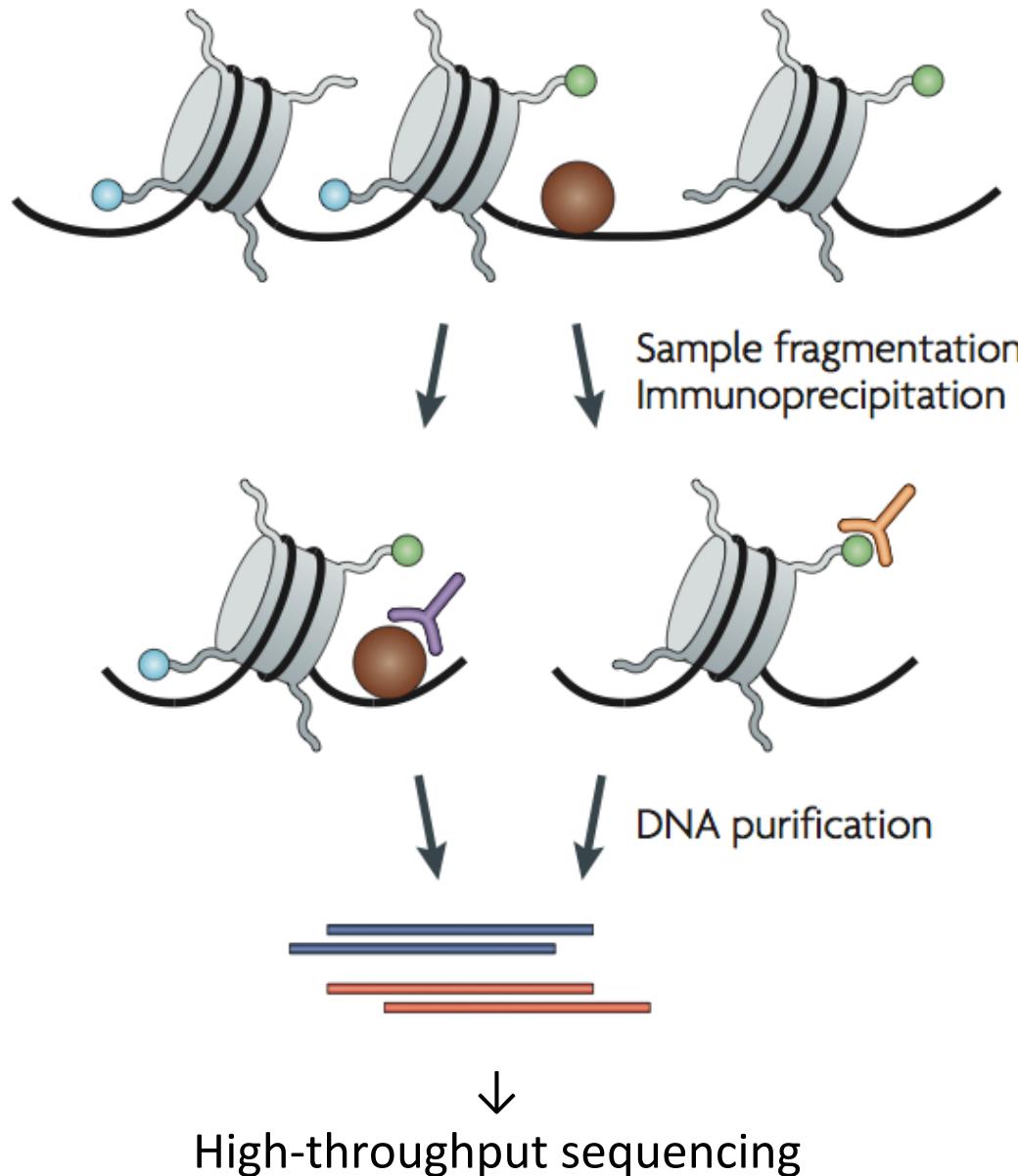
ChIP-Atlas

Genome-protein interaction が視覚的に理解できる



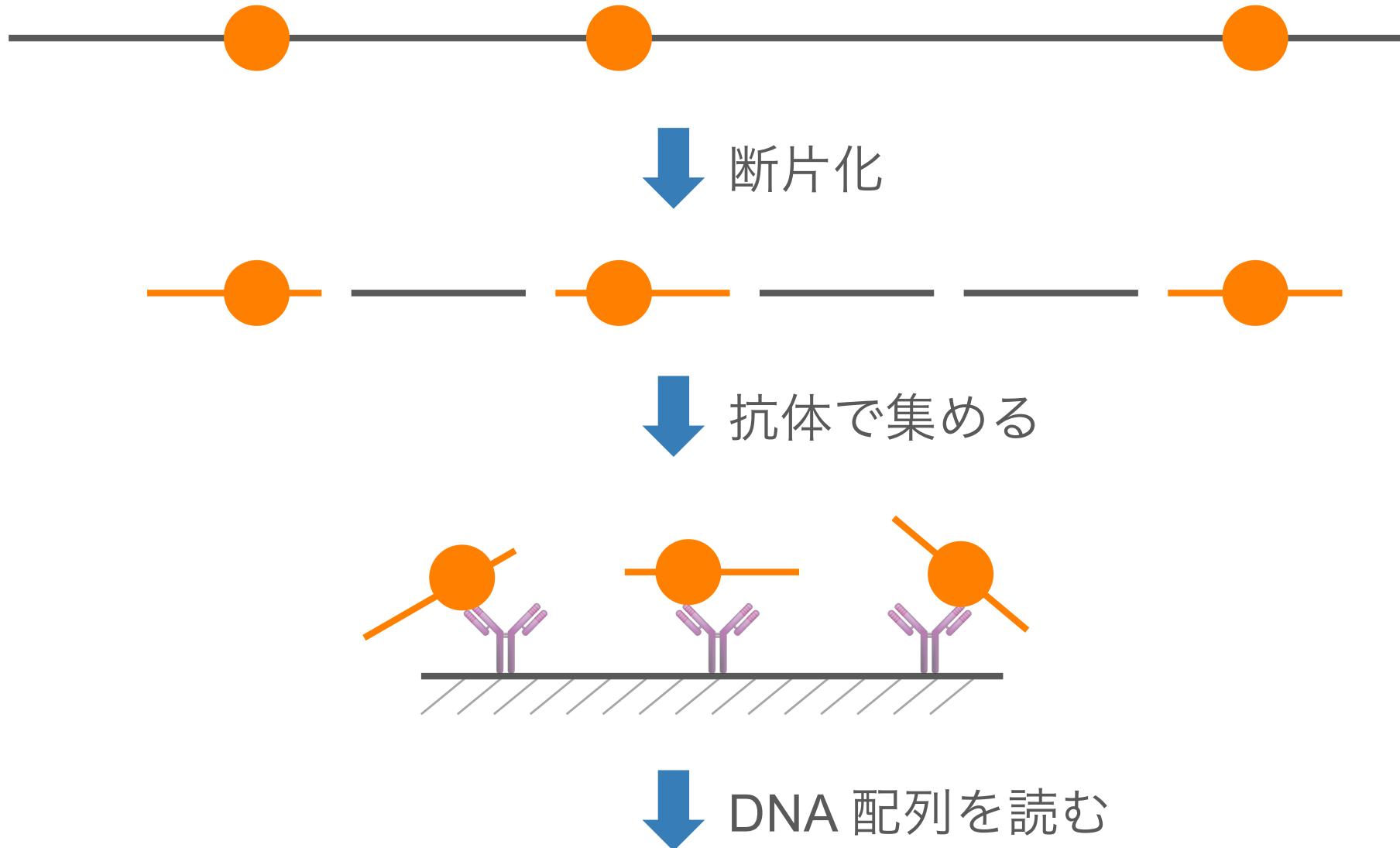
ChIP-seq: 転写因子の結合部位を同定できる

ChIP-seq = Chromatin Immunoprecipitation with Sequencing

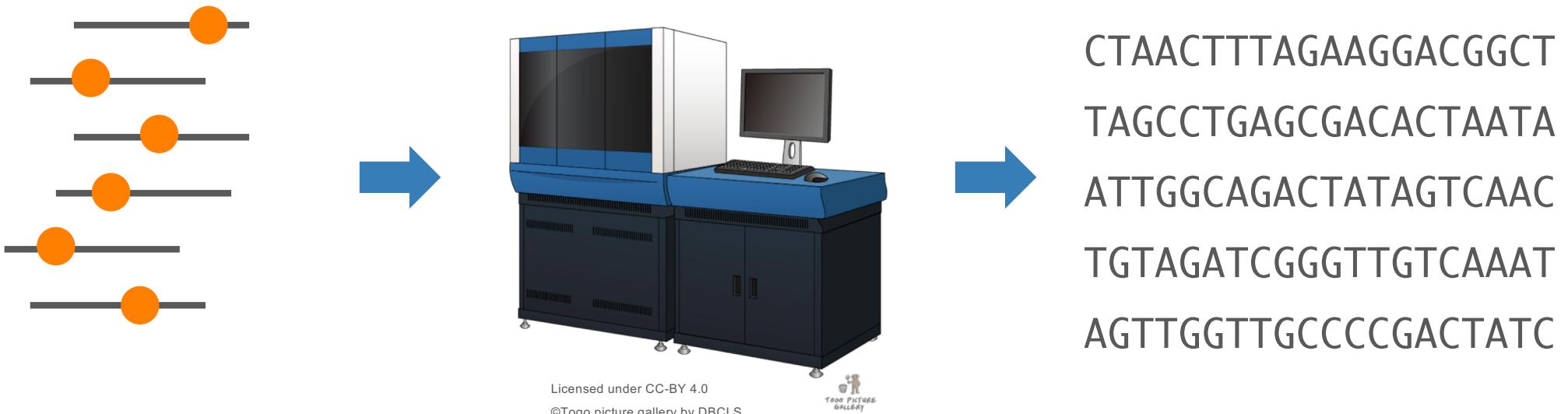


ChIP-seq: 転写因子の結合部位を同定できる

ChIP-seq = Chromatin Immunoprecipitation with Sequencing

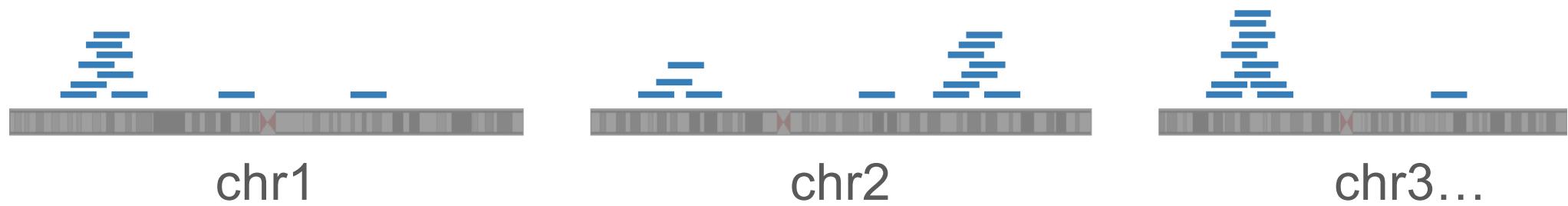


シークエンス



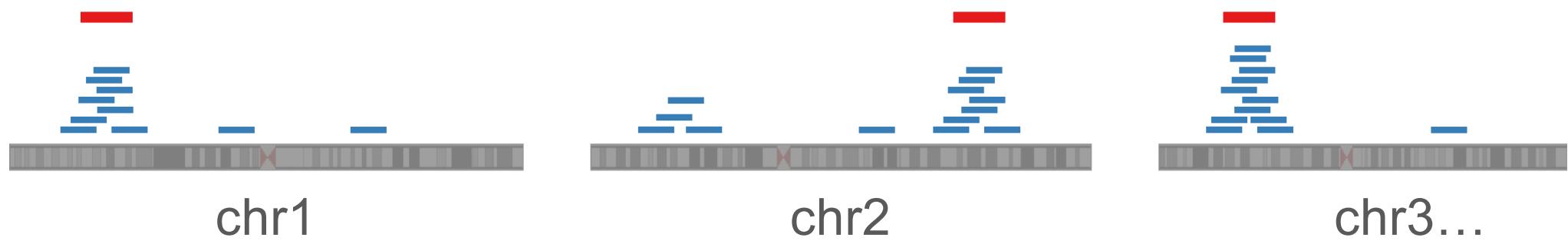
アライメント

DNA 配列をゲノム座標に変換

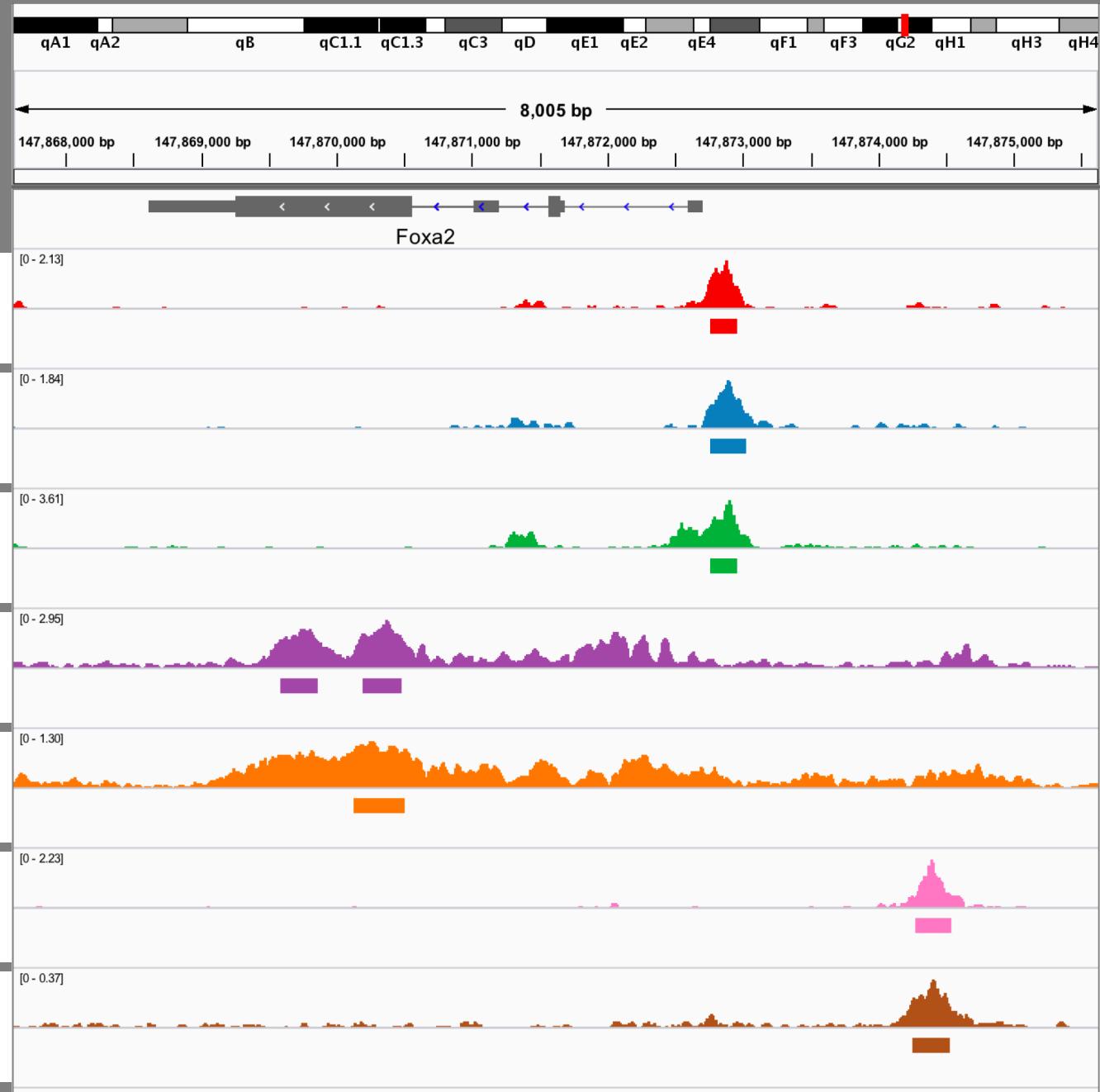


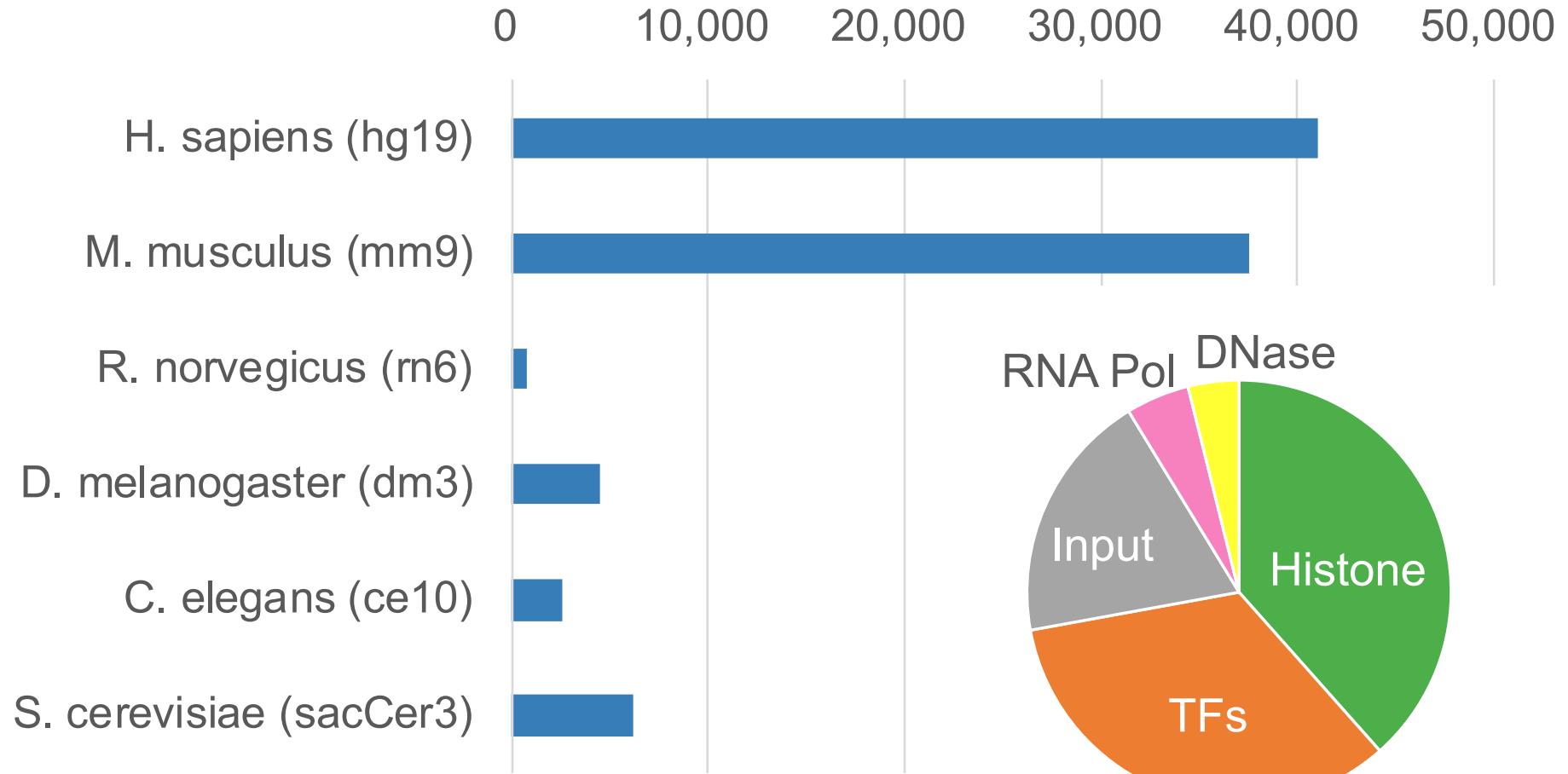
ピークコール

統計学的に有意な領域を特定。



ゲノムブラウザで閲覧





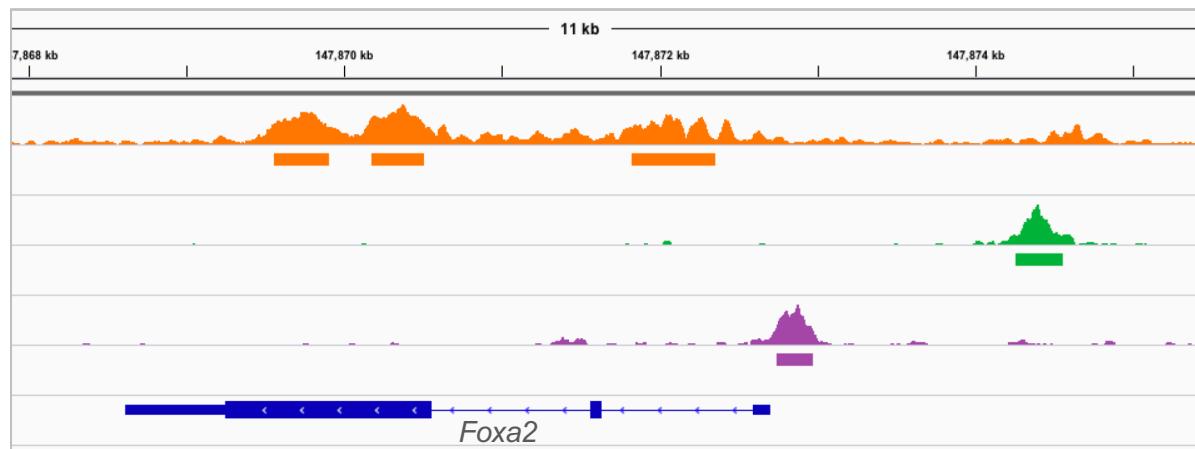
データ処理・公開しているデータ



SRA (配列生データ)



Alignment
Peak-call



Sample metadata



Curation

| ID | 抗原 | 細胞 |
|------------|-------|------------|
| SRX330668 | Ezh2 | ES cells |
| SRX310198 | Ctcf | Mast cells |
| SRX1092953 | Cebpa | Liver |

メタ情報のキュレーション

| 属性 | 属性値 |
|-------------------|--------------------------------|
| ID | ERX626807 |
| Title | Illumina HiSeq 2500 sequencing |
| Sample Name | ERS420364 |
| Sex | male |
| Species | Homo sapiens |
| cell type | U937 |
| organism part | blood |
| phenotype | Cancer |
| Immunoprecipitate | Pu.1 |

細胞名 = U-937 (ハイフンあり)

抗原名 = SPI1 (Official gene symbol)

メタ情報のキュレーション

BEFORE

| ID | Original sample metadata |
|------------|---|
| ERX200492 | ArrayExpress-Sex=male; ArrayExpress-CellType=B-Lymphocyte; ArrayExpress-Immunoprecipitate=CTCF; ArrayExpress-Species=Homosapiens source_name=chronic myelogenous leukemia cell line; cell line=K562; antibody=AGO2 |
| SRX1024932 | source_name=CD4+CD25+CD45RA+ expanded naive regulatory T cells; donor=S030b; cell type=CD4+CD25+CD45RA+ expanded naive regulatory T cells; source_name=Pre-activated CD8+ T cells; tissue=Peripheral blood; cell type=Pre-activated CD8+ T cells; chip antibody=STAT5B (Invitrogen, cat# 13-051-005); source_name=HepG2; biomaterial_provider=ATCC; datatype=ChIPSeq; datatype_description=Chromatin IP Sequencing; cell type=primary human hepatocytes; tissue=Liver; chip antibody=FXR (1:1 mixture of sc-1204x and sc-13063x, ChIP grade, cat# sc-13063x); source_name=HuH7 cells, mitotic block and release; cell type=HuH7; cycling state=mitotic; antibody=FoxA1; vendor/catalog/lot=Abcam cat# ab11247; source_name=PANC1 Pancreatic cancer cell line; antibody=ETS1 (Santa Cruz, sc-350, lot #F1312); cell line=PANC1 |
| SRX212431 | source_name=CD4+CD25+CD45RA+ expanded naive regulatory T cells; donor=S030b; cell type=CD4+CD25+CD45RA+ expanded naive regulatory T cells; |
| SRX831872 | source_name=Pre-activated CD8+ T cells; tissue=Peripheral blood; cell type=Pre-activated CD8+ T cells; chip antibody=STAT5B (Invitrogen, cat# 13-051-005); source_name=HepG2; biomaterial_provider=ATCC; datatype=ChIPSeq; datatype_description=Chromatin IP Sequencing; cell type=primary human hepatocytes; tissue=Liver; chip antibody=FXR (1:1 mixture of sc-1204x and sc-13063x, ChIP grade, cat# sc-13063x); source_name=HuH7 cells, mitotic block and release; cell type=HuH7; cycling state=mitotic; antibody=FoxA1; vendor/catalog/lot=Abcam cat# ab11247; source_name=PANC1 Pancreatic cancer cell line; antibody=ETS1 (Santa Cruz, sc-350, lot #F1312); cell line=PANC1 |
| SRX100477 | source_name=HepG2; biomaterial_provider=ATCC; datatype=ChIPSeq; datatype_description=Chromatin IP Sequencing; cell type=primary human hepatocytes; tissue=Liver; chip antibody=FXR (1:1 mixture of sc-1204x and sc-13063x, ChIP grade, cat# sc-13063x); source_name=HuH7 cells, mitotic block and release; cell type=HuH7; cycling state=mitotic; antibody=FoxA1; vendor/catalog/lot=Abcam cat# ab11247; source_name=PANC1 Pancreatic cancer cell line; antibody=ETS1 (Santa Cruz, sc-350, lot #F1312); cell line=PANC1 |
| SRX530184 | source_name=primary human hepatocytes; tissue=Liver; chip antibody=FXR (1:1 mixture of sc-1204x and sc-13063x, ChIP grade, cat# sc-13063x); source_name=HuH7 cells, mitotic block and release; cell type=HuH7; cycling state=mitotic; antibody=FoxA1; vendor/catalog/lot=Abcam cat# ab11247; source_name=PANC1 Pancreatic cancer cell line; antibody=ETS1 (Santa Cruz, sc-350, lot #F1312); cell line=PANC1 |
| SRX159094 | source_name=HuH7 cells, mitotic block and release; cell type=HuH7; cycling state=mitotic; antibody=FoxA1; vendor/catalog/lot=Abcam cat# ab11247; source_name=PANC1 Pancreatic cancer cell line; antibody=ETS1 (Santa Cruz, sc-350, lot #F1312); cell line=PANC1 |
| SRX644410 | source_name=primary human hepatocytes; tissue=Liver; chip antibody=FXR (1:1 mixture of sc-1204x and sc-13063x, ChIP grade, cat# sc-13063x); source_name=HuH7 cells, mitotic block and release; cell type=HuH7; cycling state=mitotic; antibody=FoxA1; vendor/catalog/lot=Abcam cat# ab11247; source_name=PANC1 Pancreatic cancer cell line; antibody=ETS1 (Santa Cruz, sc-350, lot #F1312); cell line=PANC1 |

メタ情報のキュレーション

AFTER

| ID | Antigen | Cell type Class | Cell type |
|------------|---------|-----------------|----------------------------|
| ERX200492 | CTCF | Blood | B-Lymphocytes |
| SRX1024932 | AGO2 | Blood | K-562 |
| SRX212431 | STAT5A | Blood | CD4-Positive T-Lymphocytes |
| SRX831872 | STAT5B | Blood | CD8-Positive T-Lymphocytes |
| SRX100477 | FOXA1 | Liver | Hep G2 |
| SRX530184 | NR1H4 | Liver | Hepatocytes |
| SRX159094 | FOXA1 | Liver | HuH-7 |
| SRX644410 | ETS1 | Pancreas | PANC-1 |

毎月更新中（1,500件／月）

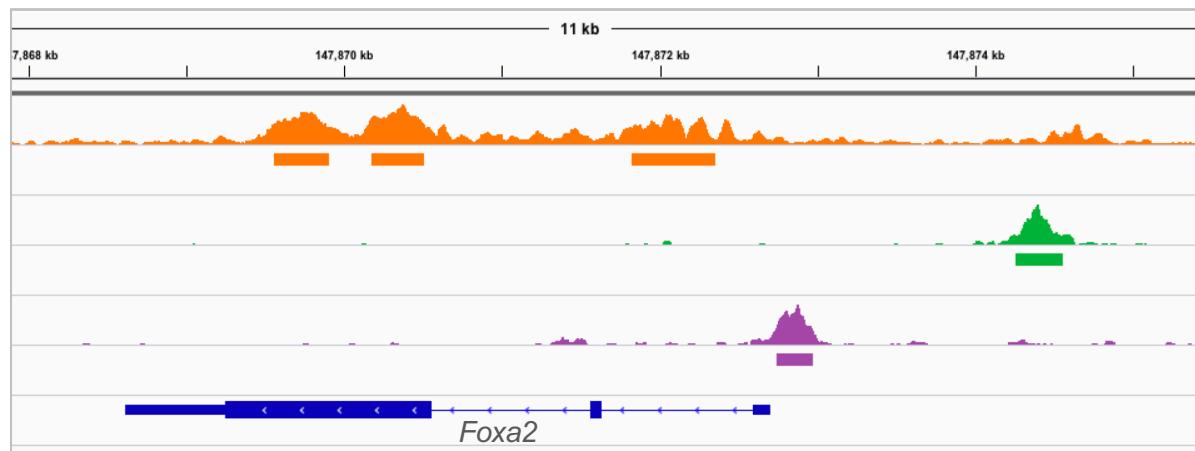
データ処理・公開しているデータ



SRA (配列生データ)



Alignment
Peak-call



Sample metadata



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| ID | 抗原 | 細胞 |
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データ統合・データマイニング

ChIP-Atlas の HP

[ChIP-Atlas](#)[Peak Browser](#)[Target Genes](#)[Colocalization](#)[Enrichment Analysis](#)[Documentation](#)[Publications](#)[Find an experiment ▾](#)

ChIP-Atlas

ChIP-Atlas is an integrative and comprehensive database for visualizing and making use of public ChIP-seq data. ChIP-Atlas covers almost all public ChIP-seq data submitted to the SRA (Sequence Read Archives) in NCBI, DDBJ, or ENA, and is based on over 78,000 experiments.

[Watch movie introduction](#)

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Peak Browser

graphically visualizes protein binding on given genomic loci with genome browser (IGV).

[Watch Movie](#)

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predicts target genes bound by given transcription factors.

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Colocalization

predicts partner proteins colocalizing with given transcription factors.

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Enrichment Analysis

predicts proteins bound to given genomic loci and genes (formerly known as *in silico* ChIP).

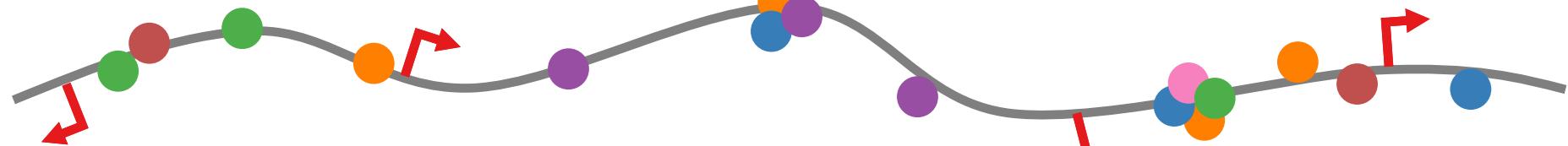
[Watch Movie](#)

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NEED HELP? CREATE AN ISSUE ON [GITHUB](#) OR CONTACT US

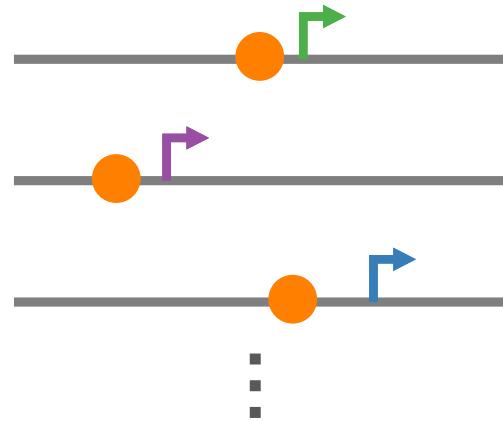
ChIP-Atlas でできること

Peak Browser

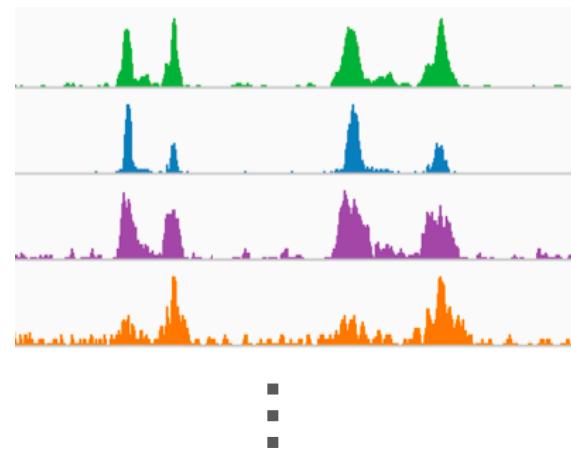


Target Genes

Enrichment Analysis

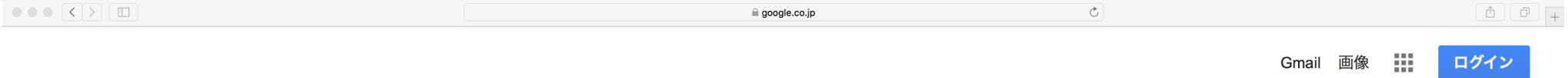


Colocalization



IGV のインストール

IGV のインストール



日本

広告 ビジネス Googleについて

プライバシー 規約 設定

IGV のインストール

The screenshot shows a web browser window displaying the IGV (Integrative Genomics Viewer) software download page. The URL in the address bar is software.broadinstitute.org. The page features a large orange circle containing the word "Downloads". A blue arrow points from the top left towards the "Downloads" section of the page.

Downloads

The page includes the following sections:

- Overview**: Describes IGV as a high-performance visualization tool for interactive exploration of large, integrated genomic datasets. It supports a wide variety of data types, including array-based and next-generation sequence data, and genomic annotations.
- Downloads**: Provides a link to download the IGV desktop application and igtools, accompanied by a blue download icon.
- Citing IGV**: Instructions for citing the use of IGV in publications, listing authors like James T. Robinson, Helga Thorvaldsdóttir, Wendy Winckler, Mitchell Guttman, Eric S. Lander, Gad Getz, Jill P. Mesirov, and references to *Nature Biotechnology* and *Briefings in Bioinformatics*.
- Funding**: Acknowledges funding from the National Cancer Institute (NCI) of the National Institutes of Health, the Informatics Technology for Cancer Research (ITCR) of the NCI, and the Starr Cancer Consortium.
- GenomeSpace**: Notes IGV participation in the GenomeSpace initiative, funded by the National Human Genome Research Institute.

Search website input field and search button.

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IGV のインストール

The screenshot shows the IGV software download page from software.broadinstitute.org. The page includes a sidebar with links for Home, Downloads, Documents, and various guides. The main content area shows download options for Mac, Windows, Linux, and Java Web Start. Three orange callout bubbles point to specific sections: one points to the 'Download IGV Mac App' section, another to the 'Download IGV on Windows' section, and a larger one points to the 'Launch IGV using Java Web Start' section.

Mac

Win

うまく
いかないとき

ほかに、Java 8 にするなどの対処法がある

ChIP-Atlasへのアクセス



Google

chip-atlas

- chip-atlas
- chip-atlas 使い方
- atlas chip heater
- atlas blue chip gloves
- atlas chip v2
- vw atlas chip tuning
- vw atlas chip
- hazel atlas chip and dip

Google 検索

I'm Feeling Lucky

不適切な検索候補の報告

日本

広告 ビジネス Googleについて

プライバシー 規約 設定

ChIP-Atlasへのアクセス

The screenshot shows the ChIP-Atlas website's main page. At the top, there is a dark header bar with the ChIP-Atlas logo and several navigation links: ChIP-Atlas, Peak Browser, Target Genes, Colocalization, Enrichment Analysis, Documentation, Publications, and a dropdown menu for 'Find an experiment'. Below the header, the main content area features a large, bold 'ChIP-Atlas' title. Underneath the title, a paragraph describes the database as an integrative and comprehensive tool for visualizing public ChIP-seq data from the SRA. A blue link 'Watch movie introduction' is located below the paragraph.

The four main features of ChIP-Atlas are:

Peak Browser

graphically visualizes protein binding on given genomic loci with genome browser (IGV).

[Watch Movie](#)

Target Genes

predicts target genes bound by given transcription factors.

[Watch Movie](#)

Colocalization

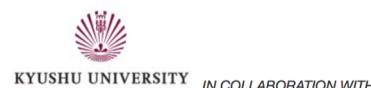
predicts partner proteins colocalizing with given transcription factors.

[Watch Movie](#)

Enrichment Analysis

predicts proteins bound to given genomic loci and genes (formerly known as *in silico* ChIP).

[Watch Movie](#)



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4つの解析ツール

ChIP-Atlasへのアクセス

The screenshot shows the ChIP-Atlas homepage. At the top, there's a navigation bar with links for "ChIP-Atlas", "Peak Browser", "Target Genes", "Colocalization", "Enrichment Analysis", "Documentation", and "Publications". On the right side of the navigation bar is a dropdown menu labeled "Find an experiment". Below the navigation bar, the main content area features a large title "ChIP-Atlas" in bold black font. Underneath the title, a descriptive paragraph explains what ChIP-Atlas is: "ChIP-Atlas is an integrative and comprehensive database for visualizing and making use of public ChIP-seq data. ChIP-Atlas covers almost all public ChIP-seq data submitted to the SRA (Sequence Read Archives) in NCBI, DDBJ, or ENA, and is based on over 78,000 experiments." Below this text is a blue link "Watch movie introduction".

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動画マニュアル（英語）

個別データの閲覧

データの検索

The screenshot shows the ChIP-Atlas homepage. At the top right, there is a search bar with the placeholder text "Enter an SRA experimental ID beginning with SRX, DRX, or ERX." Below it is a "Go" button. A large orange callout bubble points from the text "SRX512370" to the search input field. The main content area features the ChIP-Atlas logo and a brief description of the database.

ChIP-Atlas

ChIP-Atlas is an integrative and comprehensive database for visualizing and making use of public ChIP-seq data. ChIP-Atlas covers almost all public ChIP-seq data submitted to the SRA (Sequence Read Archives) in NCBI, DDBJ, or ENA, and is based on over 78,000 experiments.

[Watch movie introduction](#)

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データの検索

The screenshot shows a web browser window for the ChIP-Atlas website. The title bar says "chip-atlas.org". The main navigation menu includes "ChIP-Atlas", "Peak Browser", "Target Genes", "Colocalization", "Enrichment Analysis", "Documentation", "Publications", and "Find an experiment ▾". The page content is for experiment "SRX512370", which is identified as "GSM1364026: SOX2 iPSC; Homo sapiens; ChIP-Seq". Below the title are four blue buttons: "View on IGV ▾", "View Analysis ▾", "Download ▾", and "Link Out ▾".

SRX512370

GSM1364026: SOX2 iPSC; Homo sapiens; ChIP-Seq



[View on IGV ▾](#)

[View Analysis ▾](#)

[Download ▾](#)

[Link Out ▾](#)

Curated Sample Data

| | |
|-----------------|-----------------------|
| Genome | hg19 |
| Antigen Class | TFs and others |
| Antigen | SOX2 |
| Cell type Class | Pluripotent stem cell |
| Cell type | iPS cells |

Cell type information

NA

NA

Attributes by Original Data Submitter

| | |
|---------------|--------------------------------|
| source_name | Induced pluripotent stem cells |
| cell type | Induced pluripotent stem cells |
| chip antibody | anti SOX2 antibody |

データの検索

The screenshot shows the ChIP-Atlas homepage. At the top, there is a navigation bar with links to "ChIP-Atlas", "Peak Browser", "Target Genes", "Colocalization", "Enrichment Analysis", "Documentation", and "Publications". A search bar is located at the top right with the placeholder "Find an experiment ▾". Below the navigation bar, the main title "ChIP-Atlas" is displayed in large, bold, dark font. A descriptive text block follows, stating: "ChIP-Atlas is an integrative and comprehensive database for visualizing public ChIP-seq data. ChIP-Atlas covers almost all public ChIP-seq data submitted to the SRA (Sequence Read Archive) in NCBI, DDBJ, or ENA, and is based on over 78,000 experiments." To the right of this text, there is a search input field containing "SRX512370" with a "Go" button below it. A tooltip for the search field says: "Enter an SRA experimental ID beginning with SRX, DRX, or ERX. Keyword search". An orange callout bubble points from the text "Keyword search" towards the search input field.

The four main features of ChIP-Atlas are:

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[Watch Movie](#)

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データの検索

dbarchive.biosciencedbc.jp

ChIP-Atlas / Keyword search

Search for ChIP-seq data with keywords.

- Simple search
 Advanced search

Show entries

Showing 1 to 10 of 27 entries (filtered from 78,155 total entries)

iPS Sox2

Search:

| SRX ID | SRA ID | GEO ID | Genome | Antigen class | Antigen | Cell type class | Cell type |
|------------|-----------|------------|--------|----------------|---------|-----------------------|--------------------------|
| SRX1813586 | SRA430376 | GSM2183781 | hg19 | TFs and others | SOX2 | Pluripotent stem cell | iPS cells |
| SRX1813587 | SRA430376 | GSM2183782 | hg19 | TFs and others | SOX2 | Pluripotent stem cell | iPS cells |
| SRX512370 | SRA156563 | GSM1364026 | hg19 | TFs and others | SOX2 | Pluripotent stem cell | iPS cells |
| SRX968908 | SRA248747 | GSM1643794 | hg19 | TFs and others | SOX2 | Pluripotent stem cell | iPS derived neural cells |
| SRX968909 | SRA248747 | GSM1643795 | hg19 | TFs and others | SOX2 | Pluripotent stem cell | iPS derived neural cells |
| SRX968910 | SRA248747 | GSM1643796 | hg19 | TFs and others | SOX2 | Pluripotent stem cell | iPS derived neural cells |
| SRX968911 | SRA248747 | GSM1643797 | hg19 | TFs and others | SOX2 | Pluripotent stem cell | iPS derived neural cells |
| SRX968912 | SRA248747 | GSM1643798 | hg19 | TFs and others | SOX2 | Pluripotent stem cell | iPS derived neural cells |
| SRX1184107 | SRA245567 | GSM1867739 | mm9 | TFs and others | Sox2 | Pluripotent stem cell | iPSC intermediates |
| SRX3038016 | SRA592182 | GSM2718352 | mm9 | TFs and others | Sox2 | Pluripotent stem cell | iPS cells |

Previous 2 3 Next

データの検索



ChIP-Atlas / Keyword search

Search for ChIP-seq data with keywords.

- Simple search
 Advanced search

Show 10 entries

Showing 1 to 10 of 27 entries

Copy

TSV

Search: iPS Sox2

| SRX ID | Sample ID | Platform | Antigen class | Antigen | Cell type class | Cell type | |
|------------|-----------|------------|---------------|----------------|-----------------|-----------------------|--------------------------|
| SRX1813586 | SRA423572 | GSM1364026 | hg19 | TFs and others | SOX2 | Pluripotent stem cell | iPS cells |
| SRX1813587 | SRA423576 | GSM1364026 | hg19 | TFs and others | SOX2 | Pluripotent stem cell | iPS cells |
| SRX512370 | SRA156563 | GSM1364026 | hg19 | TFs and others | SOX2 | Pluripotent stem cell | iPS cells |
| SRX968908 | SRA248747 | GSM1643794 | hg19 | TFs and others | SOX2 | Pluripotent stem cell | iPS derived neural cells |
| SRX968909 | SRA248747 | GSM1643795 | hg19 | TFs and others | SOX2 | Pluripotent stem cell | iPS derived neural cells |
| SRX968910 | SRA248747 | GSM1643796 | hg19 | TFs and others | SOX2 | Pluripotent stem cell | iPS derived neural cells |
| SRX968911 | SRA248747 | GSM1643797 | hg19 | TFs and others | SOX2 | Pluripotent stem cell | iPS derived neural cells |
| SRX968912 | SRA248747 | GSM1643798 | hg19 | TFs and others | SOX2 | Pluripotent stem cell | iPS derived neural cells |
| SRX1184107 | SRA245567 | GSM1867739 | mm9 | TFs and others | Sox2 | Pluripotent stem cell | iPSC intermediates |
| SRX3038016 | SRA592182 | GSM2718352 | mm9 | TFs and others | Sox2 | Pluripotent stem cell | iPS cells |

Previous 1 2 3 Next

サンプル情報の閲覧

The screenshot shows a web browser window for the ChIP-Atlas website. The URL in the address bar is chip-atlas.org. The page title is "ChIP-Atlas - details for SRX512370". The main content area displays sample information for "SRX512370" (GSM1364026: SOX2 iPSC; Homo sapiens; ChIP-Seq). Below the title are four blue buttons: "View on IGV ▾", "View Analysis ▾", "Download ▾", and "Link Out ▾". A large orange speech bubble with the Japanese text "キュレーション結果" (Curated results) points to the "View on IGV" button.

SRX512370

GSM1364026: SOX2 iPSC; Homo sapiens; ChIP-Seq



[View on IGV ▾](#)

[View Analysis ▾](#)

[Download ▾](#)

[Link Out ▾](#)

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キュレーション
結果

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| | |
|---------------|--------------------------------|
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| chip antibody | anti SOX2 antibody |

オリジナルの
メタ情報

サンプル情報の閲覧

chip-atlas.org

ChIP-Atlas Peak Browser Target Genes Colocalization Enrichment Analysis Find an experiment ▾

Metadata from Sequence Read Archive

Library Description

library_strategy ChIP-Seq
library_source GENOMIC
library_selection ChIP
library_construction... Chromatins were fragmented by sonication and immunoprecipitated with an anti-FLAG M2 antibody or antibodies against protein-of-interest. Immunoprecipitated DNA fragments were purified by QIAGEN's PCR purification Kit. Ten ng of co-immunoprecipitated DNA fragments, except for Of-S-M and O-Sf-M, were subjected to preparation of Illumina's sequencing library using NEBNext ChIP-seq Library Prep Reagent (New England Biolabs), according manufacturer's instruction. After adapter ligation, DNA fragments were amplified by PCR with Illumina primers and library fragments of ~250 bp (insert plus adaptor and PCR primer sequences) were band isolated by Caliper XT (PerkinElmer). For Of-S-M and O-Sf-M, Illumina's sequencing libraries were generated by Ovation SP Ultralow Library System (NuGEN). The purified DNA was captured on an Illumina flow cell for cluster generation.

Platform Information

instrument_model Illumina Genome Analyzer IIx

External Database Query

Query antigen WikiGenes PosMed PDBj

Query cell-type ATCC MeSH RIKEN BRC

Logs in read processing pipeline

Number of total reads 31281692
Reads aligned (%) 66.5
Duplicates removed (%) 15.5
Number of peaks 20967 (qval < 1E-05)

サンプル情報の閲覧

chip-atlas.org

ChIP-Atlas - details for SRX512370

ChIP-Atlas Peak Browser Target Genes Colocalization Enrichment Analysis Documentation Publications Find an experiment ▾

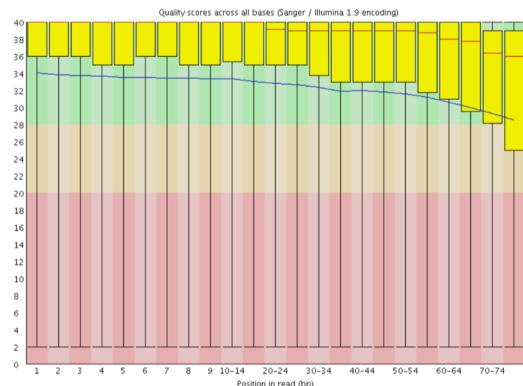
Logs in read processing pipeline

| | |
|------------------------|----------------------|
| Number of total reads | 31281692 |
| Reads aligned (%) | 66.5 |
| Duplicates removed (%) | 15.5 |
| Number of peaks | 20967 (qval < 1E-05) |

リード数や
マップ率など

Sequence Quality Data from DBCLS SRA

SRR1220680_fastqc



リードの
クオリティ

個別データの閲覧

SRX512370
GSM1364026: SOX2 antibody ChIP-seq

View on IGV ▾

- BigWig
- Peak-call (q < 1E-05)
- Peak-call (q < 1E-10)
- Peak-call (q < 1E-20)

Genome: hg19

Antigen Class: TFs and others

Antigen: SOX2

Cell type Class: Pluripotent stem cell

Cell type: iPS cells

Cell type information

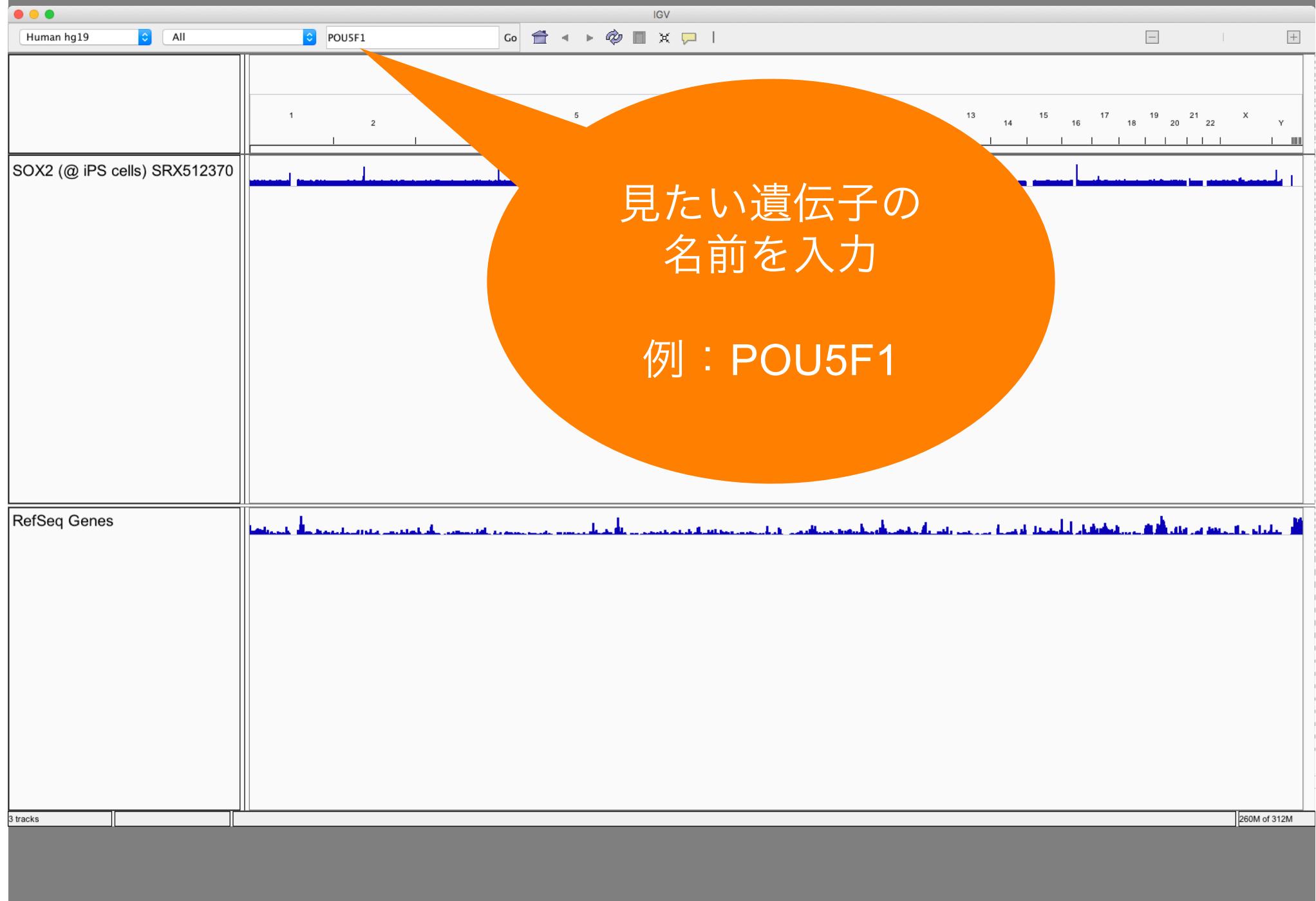
NA NA

Attributes by Original Data Submitter

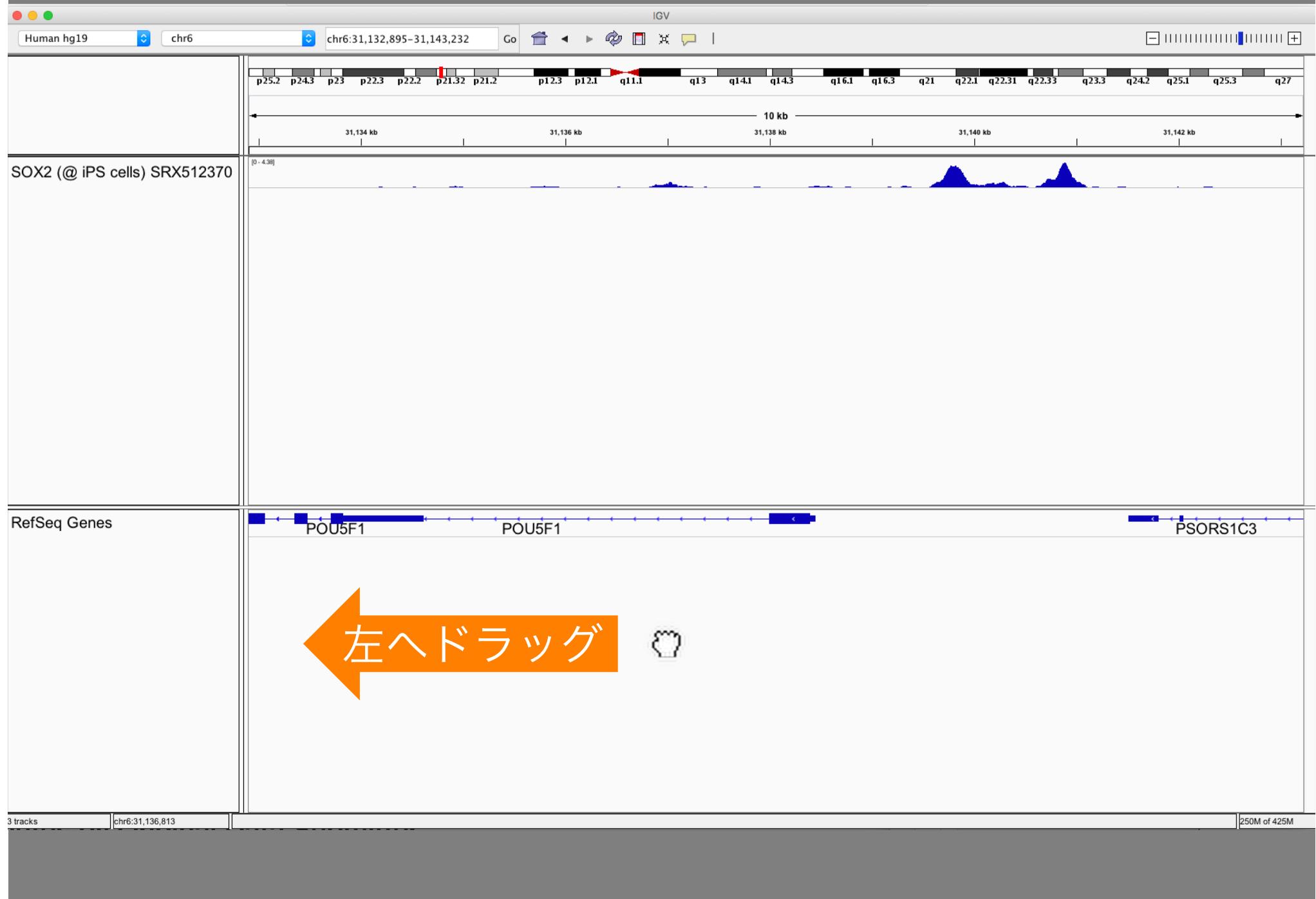
| | |
|---------------|--------------------------------|
| source_name | Induced pluripotent stem cells |
| cell type | Induced pluripotent stem cells |
| chip antibody | anti SOX2 antibody |

BigWig = アライメントデータのこと

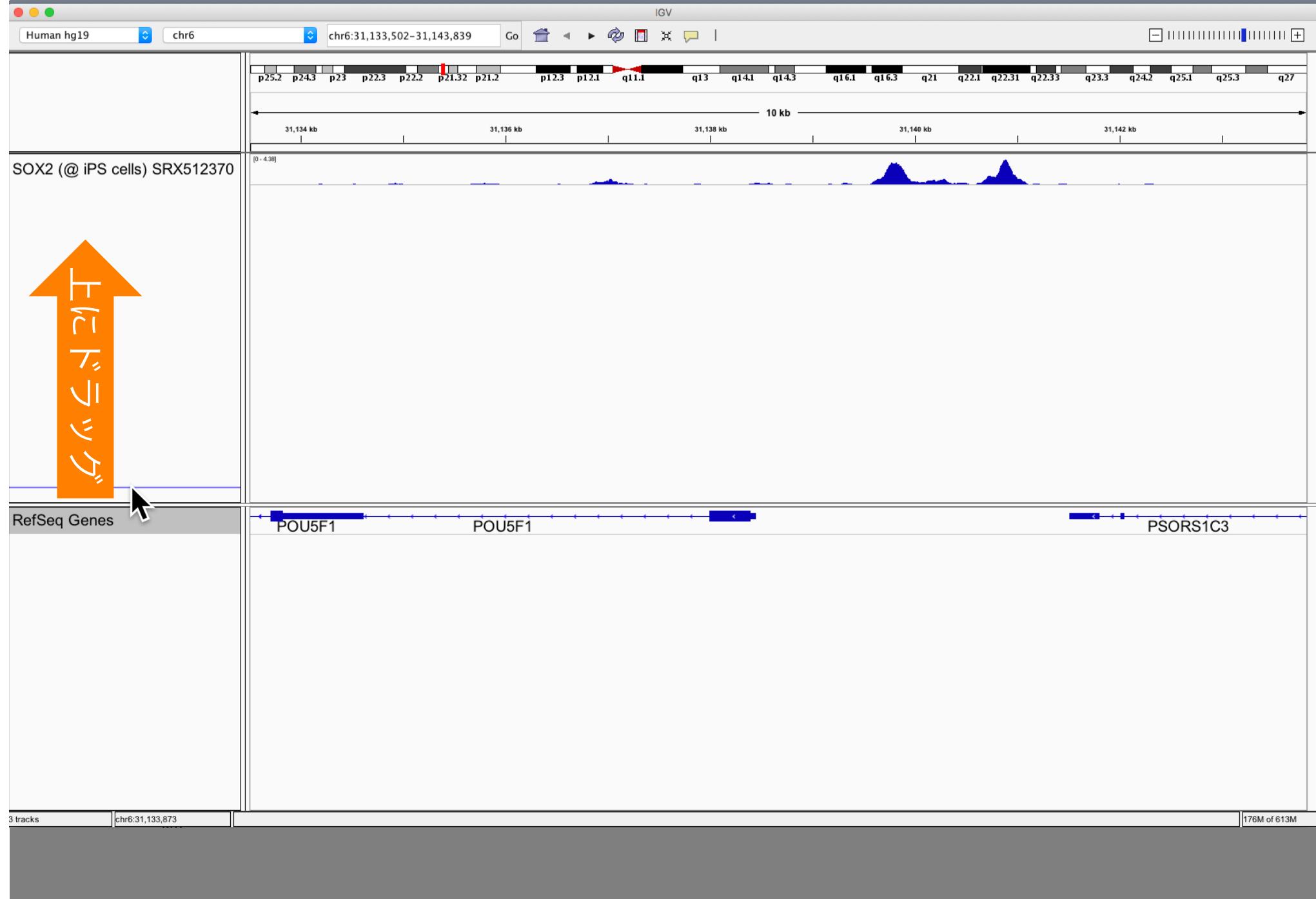
個別データの閲覧



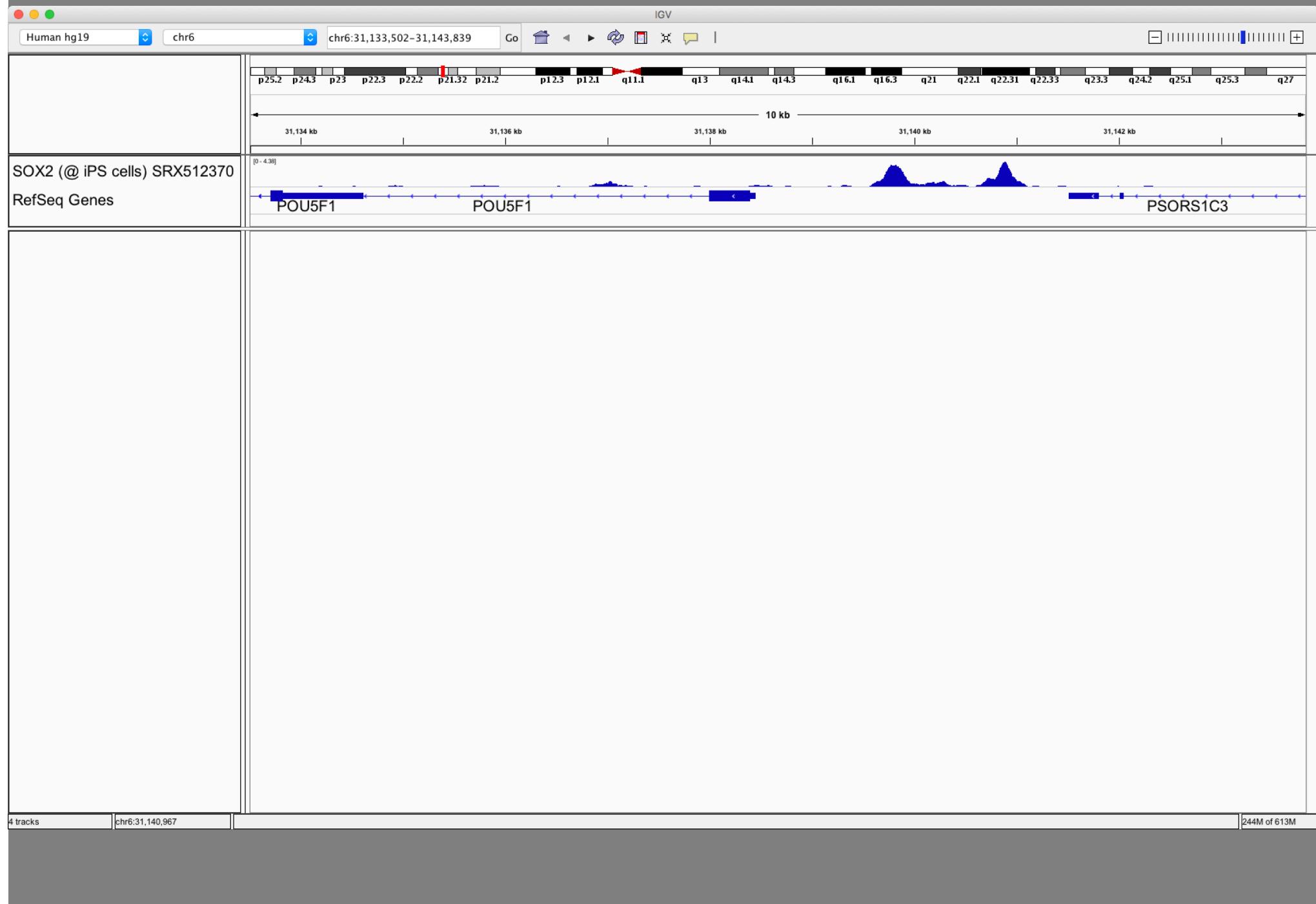
個別データの閲覧



個別データの閲覧



個別データの閲覧



個別データの閲覧

The screenshot shows a web browser window for the ChIP-Atlas website. The URL in the address bar is `chip-atlas.org`. The page title is "ChIP-Atlas - details for SRX512370". The top navigation bar includes links for "ChIP-Atlas", "Peak Browser", "Target Genes", "Colocalization", "Enrichment Analysis", "Documentation", "Publications", and "Find an experiment". The main content area displays experiment details for "SRX512370" (GSM1364026: SOX2 iPSC; Homo Sapiens). A large orange speech bubble highlights the "Peak-call" option in the dropdown menu of the "View on IGV" button.

SRX512370

GSM1364026: SOX2 iPSC; Homo Sapiens

View on IGV ▾ View All ▾ Link Out ▾

- BigWig
- Peak-call ($q < 1E-05$)
- Peak-call ($q < 1E-10$)
- Peak-call ($q < 1E-20$)

Genome: hg19

| | |
|-----------------|-----------------------|
| Antigen Class | TFs and others |
| Antigen | SOX2 |
| Cell type Class | Pluripotent stem cell |
| Cell type | iPS cells |

Peak-call

Cell type information

NA NA

Attributes by Original Data Submitter

| | |
|---------------|--------------------------------|
| source_name | Induced pluripotent stem cells |
| cell type | Induced pluripotent stem cells |
| chip antibody | anti SOX2 antibody |

個別データの閲覧

