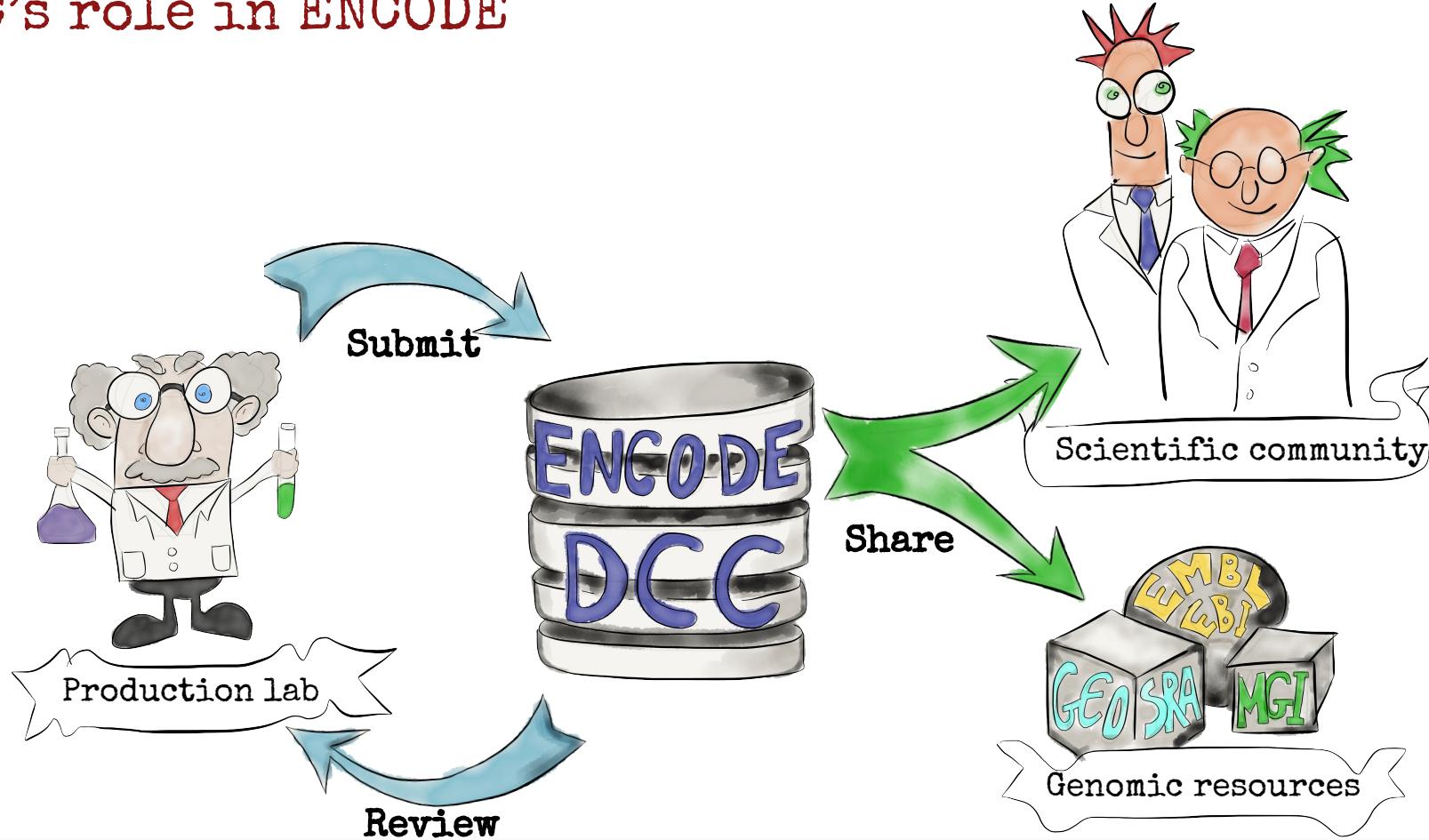


Intro to the ENCODE portal

Jason Hilton, PhD

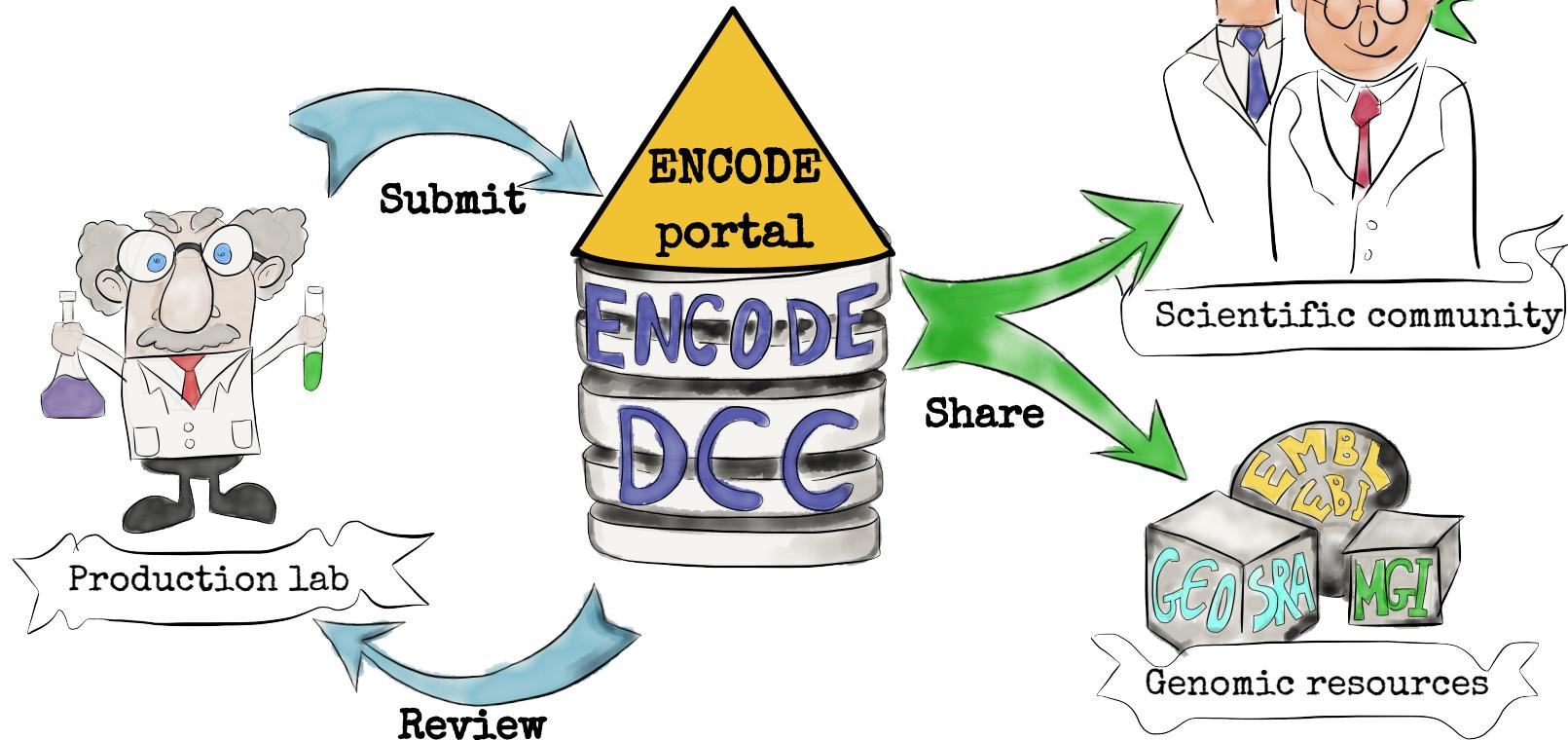
ENCODE Data Coordination Center

DCC's role in ENCODE



DCC's role in ENCODE

The ENCODE portal is a main tools for the DCC



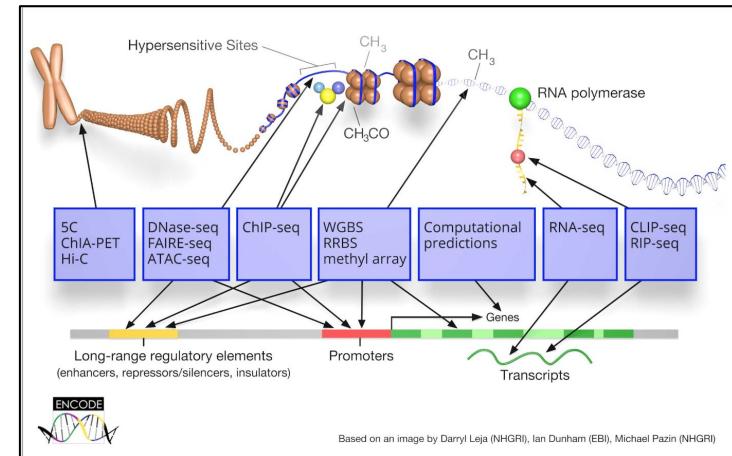
ENCODE portal

encodeproject.org

15K experiments

46 assay “flavors”

600TB data files



Stanford University

ENCODE portal

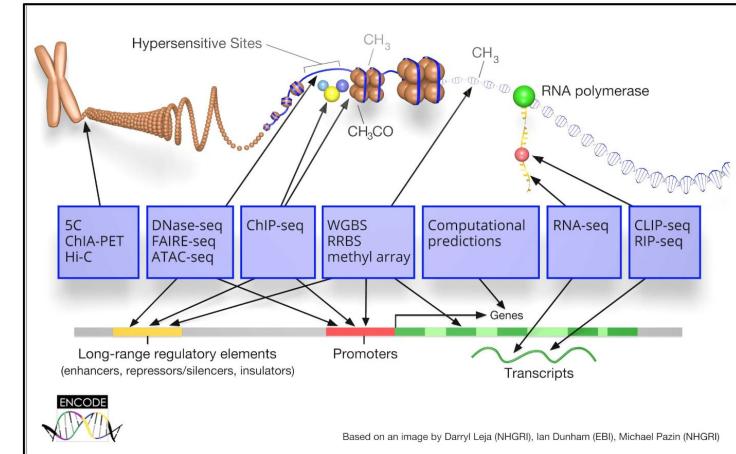
encodeproject.org

15K experiments

46 assay “flavors”

600TB data files

PRIMARY ORGANIZATIONAL
UNIT ON ENCODE PORTAL



Stanford University

Outline

An ENCODE experiment

Browse & Search experiments

Visualize & Download files from many experiments

Searching by a region of interest

Access the ENCODE portal programmatically

An ENCODE experiment

<https://www.encodeproject.org/ENCSR982QIF>

The experiment page

The screenshot shows the ENCODE experiment summary page for ENCSR982QIF. The page has a dark header with links for ENCODE, Data, Encyclopedia, Materials & Methods, and Help, along with a search bar. The main content area has a light background. At the top, it says "EXPERIMENTS / CHIP-SEQ / HOMO SAPIENS / ASCENDING AORTA". Below that is the title "Experiment summary for ENCSR982QIF". To the right is a "Summary" section with tabs for "ENCODE" and "ENCORE PHASE 3". The "Summary" tab displays detailed experimental parameters:

Summary		Attribution	
Status:	released	Lab:	Bradley Bernstein, Broad
Assay:	ChIP-seq	Award:	U54HG008991 (Bradley Bernstein, Broad)
Target:	H3K27ac	Project:	ENCODE
Biosample summary:	<i>Homo sapiens</i> ascending aorta female adult (51 year)	External resources:	GEO:GSE101384
Biosample Type:	tissue	Aliases:	bradley-bernstein:Project Element 2547
Replication type:	unreplicated	Date submitted:	November 13, 2016
Nucleic acid type:	DNA	Date released:	June 8, 2017
Size range:	200-600	Related datasets:	ENCSR818FUR
Fragmentation method:	sonication (generic)	Tags:	GTEx
Strand specificity:	Non-strand-specific		
Platform:	Illumina HiSeq 2500		
Controls:	ENCSR494YJW		

Below this is a "Isogenic replicates" section with a table:

Isogenic replicate	Technical replicate	Summary	Biosample	Antibody	Library
1	1	female adult (51 year) ascending aorta tissue	ENCBS273PSC	ENCAB000AQN	ENCLB626HJU

An ENCODE experiment

<https://www.encodeproject.org/ENCSR982QIF>

What experiment was done

ENCODE Data Encyclopedia Materials & Methods Help

EXPERIMENTS / CHIP-SEQ / HOMO SAPIENS / ASCENDING AORTA

Experiment summary for ENCSR982QIF

Summary		Attribution	
Status:	released	Lab:	Broad Institute
Assay:	ChIP-seq	Award:	U01HG007107
Target:	H3K27ac	Project:	ENCODE Project
Biosample summary:	<i>Homo sapiens</i> ascending aorta female adult (51 year)	External resources:	GEO
Biosample Type:	tissue	Aliases:	broad
Replication type:	unreplicated	Date submitted:	2014-07-10
Nucleic acid type:	DNA	Date released:	2014-07-10
Size range:	200-600	Related datasets:	ENCSR982QIF
Fragmentation method:	sonication (generic)	Tags:	GTEx
Strand specificity:	Non-strand-specific		
Platform:	Illumina HiSeq 2500		
Controls:	ENCSR494YJW		

Isogenic replicates

Isogenic replicate	Technical replicate	Summary	Biosample ID
1	1	female adult (51 year) ascending aorta tissue	ENCBS21

Summary

Status:	released
Assay:	ChIP-seq
Target:	H3K27ac
Biosample summary:	<i>Homo sapiens</i> ascending aorta female adult (51 year)
Biosample Type:	tissue
Replication type:	unreplicated
Nucleic acid type:	DNA
Size range:	200-600
Fragmentation method:	sonication (generic)
Strand specificity:	Non-strand-specific
Platform:	Illumina HiSeq 2500
Controls:	ENCSR494YJW

An ENCODE experiment

<https://www.encodeproject.org/ENCSR982QIF>

Experiment grouping

The screenshot shows the ENCODE project page for experiment ENCSR982QIF. The page has a header with tabs for ENCODE, Data, Encyclopedia, Materials & Methods, and Help, along with a search bar. The main content area displays the experiment's details under the heading "Attribution". A red box highlights the "Attribution" section, which includes the ENCODE logo and the text "ENCODE PHASE 3". The attribution details are as follows:

Lab:	Bradley Bernstein, Broad
Award:	U54HG006991 (Bradley Bernstein, Broad)
Project:	ENCODE
External resources:	GEO:GSE101384
Aliases:	bradley-bernstein:Project Element 2547
Date submitted:	November 13, 2016
Date released:	June 8, 2017
Related datasets:	ENCSR818FUR
Tags:	GTEx

Below the attribution section, there is a summary table with columns for Biosample, Antibody, and Library. The summary table shows data for "female adult (51 year) ascending aorta tissue" with biosamples ENCB8273PSC, ENCA800AQN, and library ENCLB626HJU.

An ENCODE experiment

<https://www.encodeproject.org/ENCSR982QIF>

Experimental entities

The screenshot shows the ENCODE project website interface. At the top, there is a navigation bar with links for ENCODE, Data, Encyclopedia, Materials & Methods, and Help. A search bar is also present. Below the navigation, a breadcrumb trail shows the path: EXPERIMENTS / CHIP-SEQ / HOMO SAPIENS / ASCENDING AORTA. The main title is "Experiment summary for ENCSR982QIF". Below the title, there is a summary table with columns for Status (released), Attribution (ENCODE PHASE 3), and Lab (Bradley Bernstein, Broad). The main content area is titled "Isogenic replicates". It features a table with columns for Isogenic replicate, Technical replicate, Summary, Biosample, Antibody, and Library. One row is shown, corresponding to the experiment details above. A detailed view of the "Isogenic replicates" table is also shown below, with a red border around the entire table structure.

Isogenic replicate	Technical replicate	Summary	Biosample	Antibody	Library
1	1	female adult (51 year) ascending aorta tissue	ENCBS273PSC	ENCAB000AQN	ENCLB626HJU

Isogenic replicate	Technical replicate	Summary	Biosample	Antibody	Library
1	1	female adult (51 year) ascending aorta tissue	ENCBS273PSC	ENCAB000AQN	ENCLB626HJU

An ENCODE experiment

<https://www.encodeproject.org/ENCSR982QIF>

Scrolling down...

Files

GRCh38

Association graph File details

Replicate 1

Download Graph

Documents

High Resolution Pathology Slide Image
Description excerpt: High-resolution whole slide digital images of pathological specimens (SVS...)
84258.svs

Pipeline Protocol
Description: ChIP mapping pipeline: Includes overview and references for the pipeline
ChIP-seq_Mapping_Pipeline_Overview.r

General Protocol
Description: PRC Case Summary Report For Case 4
ENC_Case-4_DEJ_PRCcsr_Redacted.p

Data Sheet
Description: Mapping of high resolution images (SVS format) ids to tissues
Encode Public IDs.pdf

General Protocol
Description: Epigenomics Alternative Mag Bead ChIP Protocol v1.1 exp
Epigenomics_Alternative_Mag_Bead_Cl

General Protocol
Description: GTEx Tissue Recovery Form II, Case 4
ENC_Case-4_DEJ_TRF_revised.pdf

Extraction Protocol
Description: GTEx Tissue Harvesting Work Instruction
GTEx Tissue Harvesting Work Instruction

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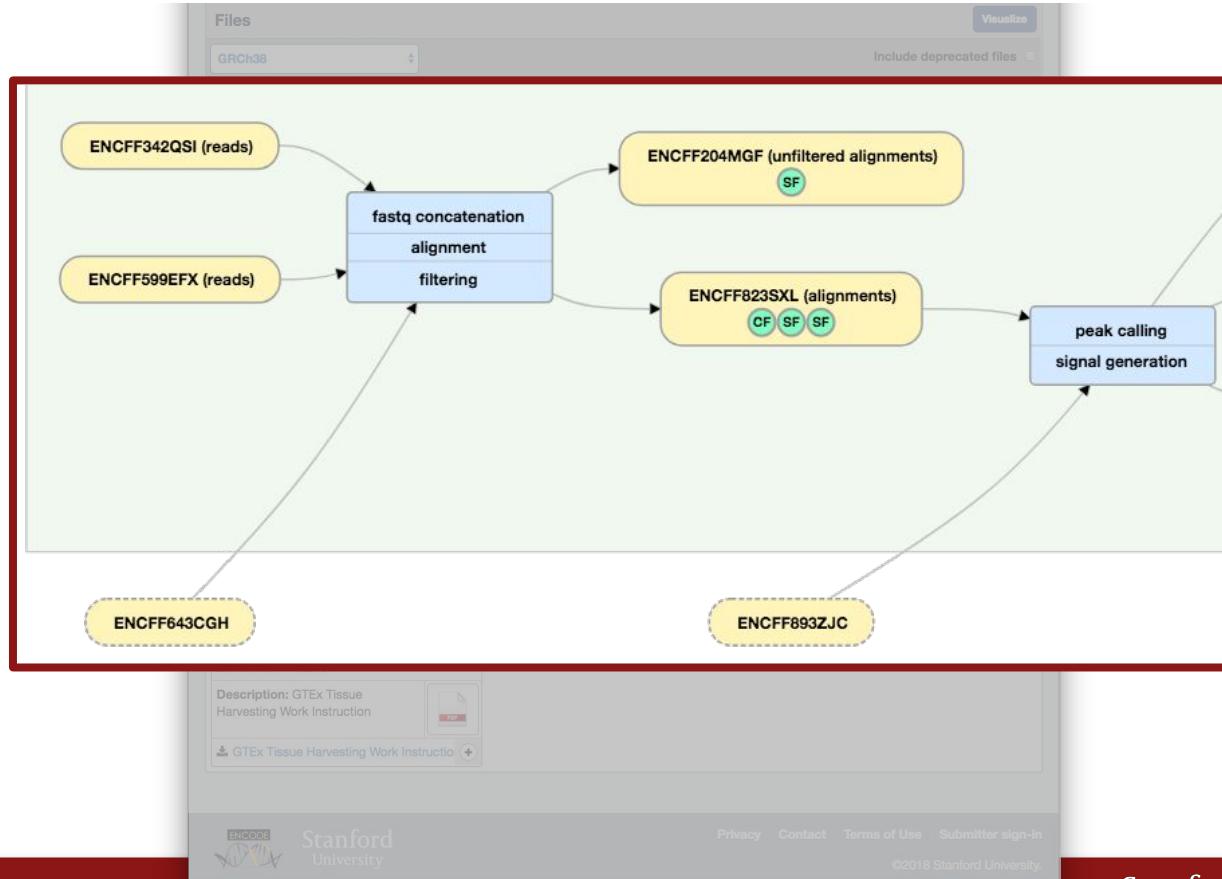
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<https://www.encodeproject.org/ENCSR982QIF>

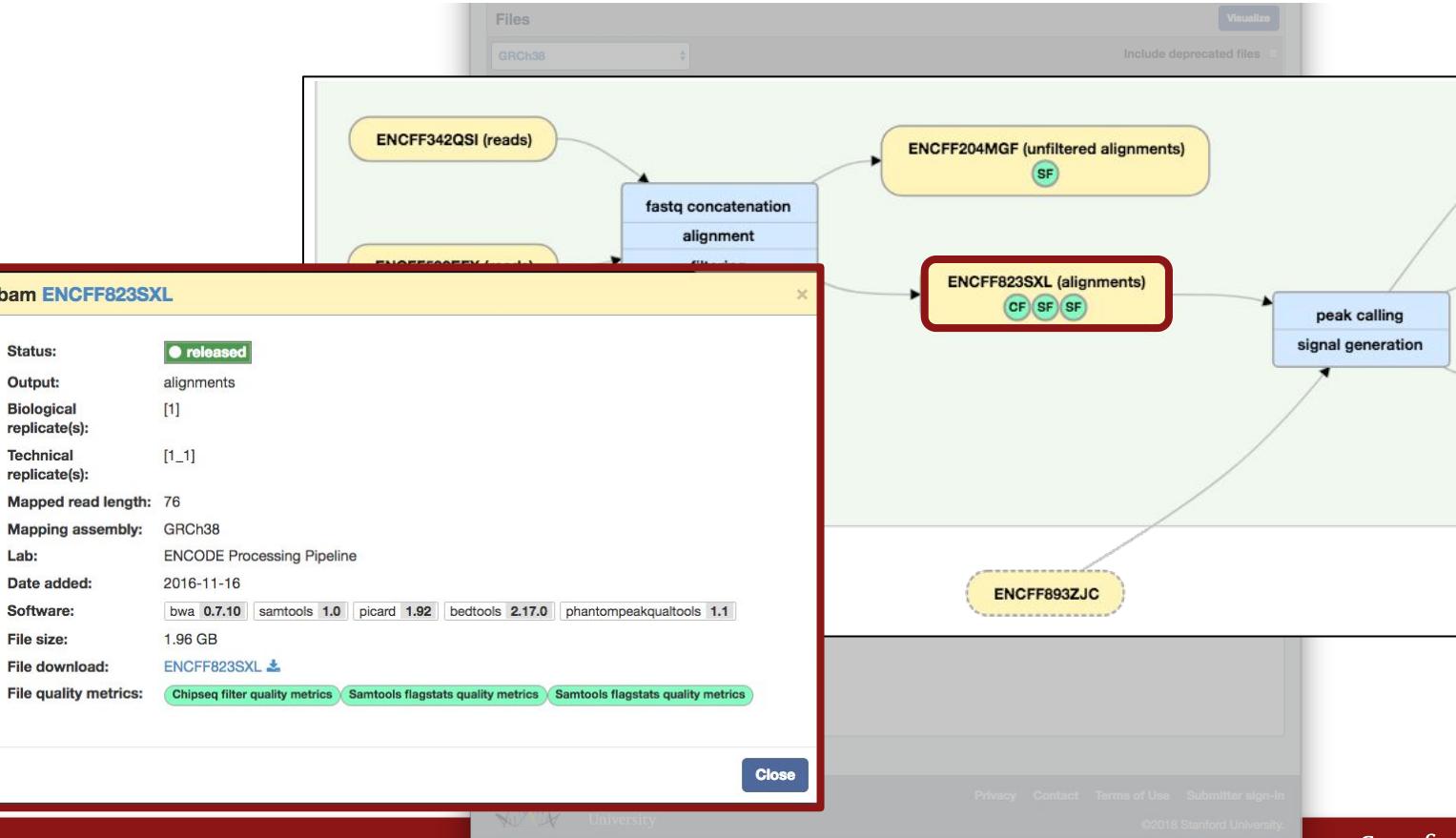
Data provenance



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<https://www.encodeproject.org/ENCSR982QIF>

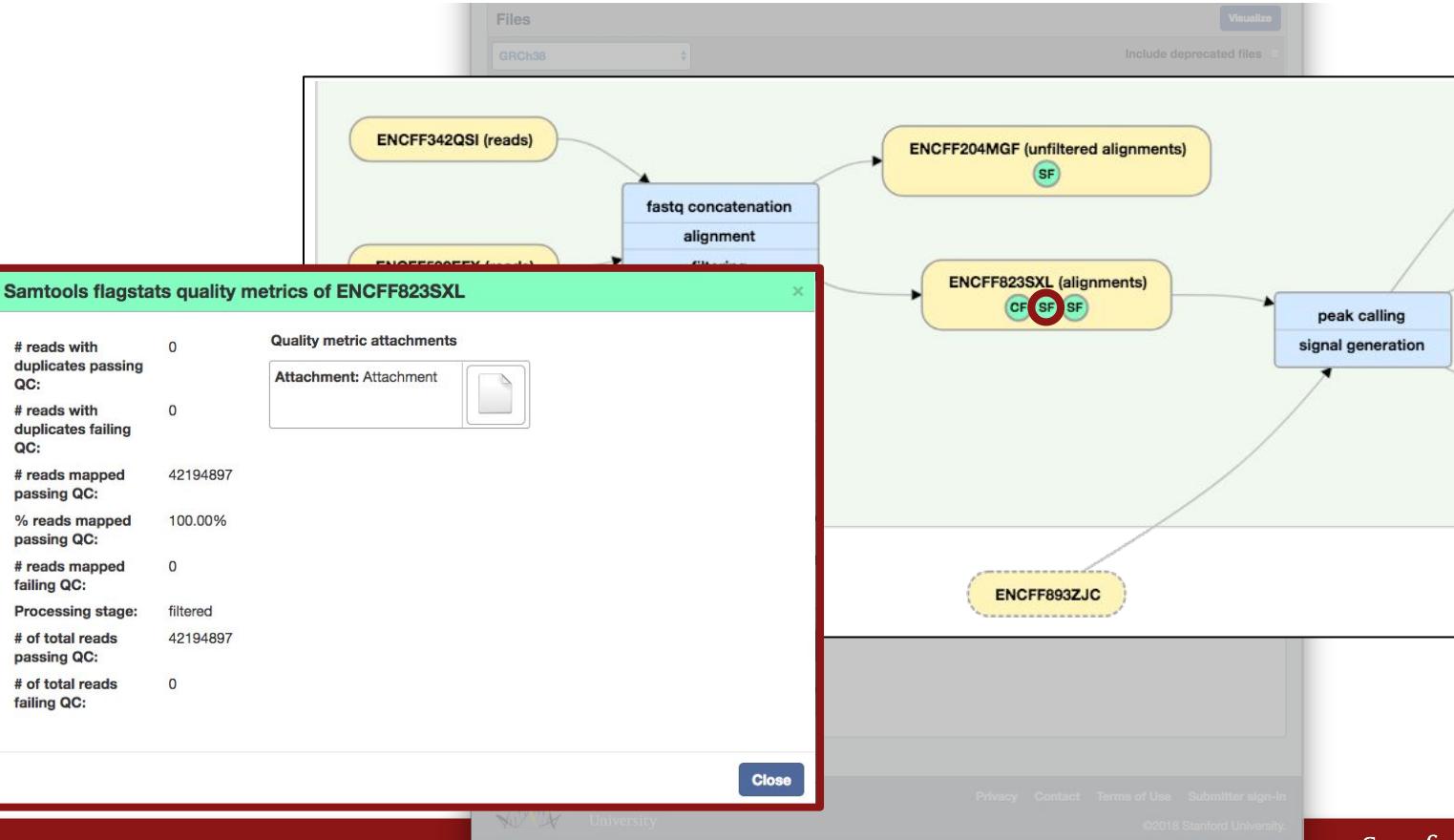
File details



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<https://www.encodeproject.org/ENCSR982QIF>

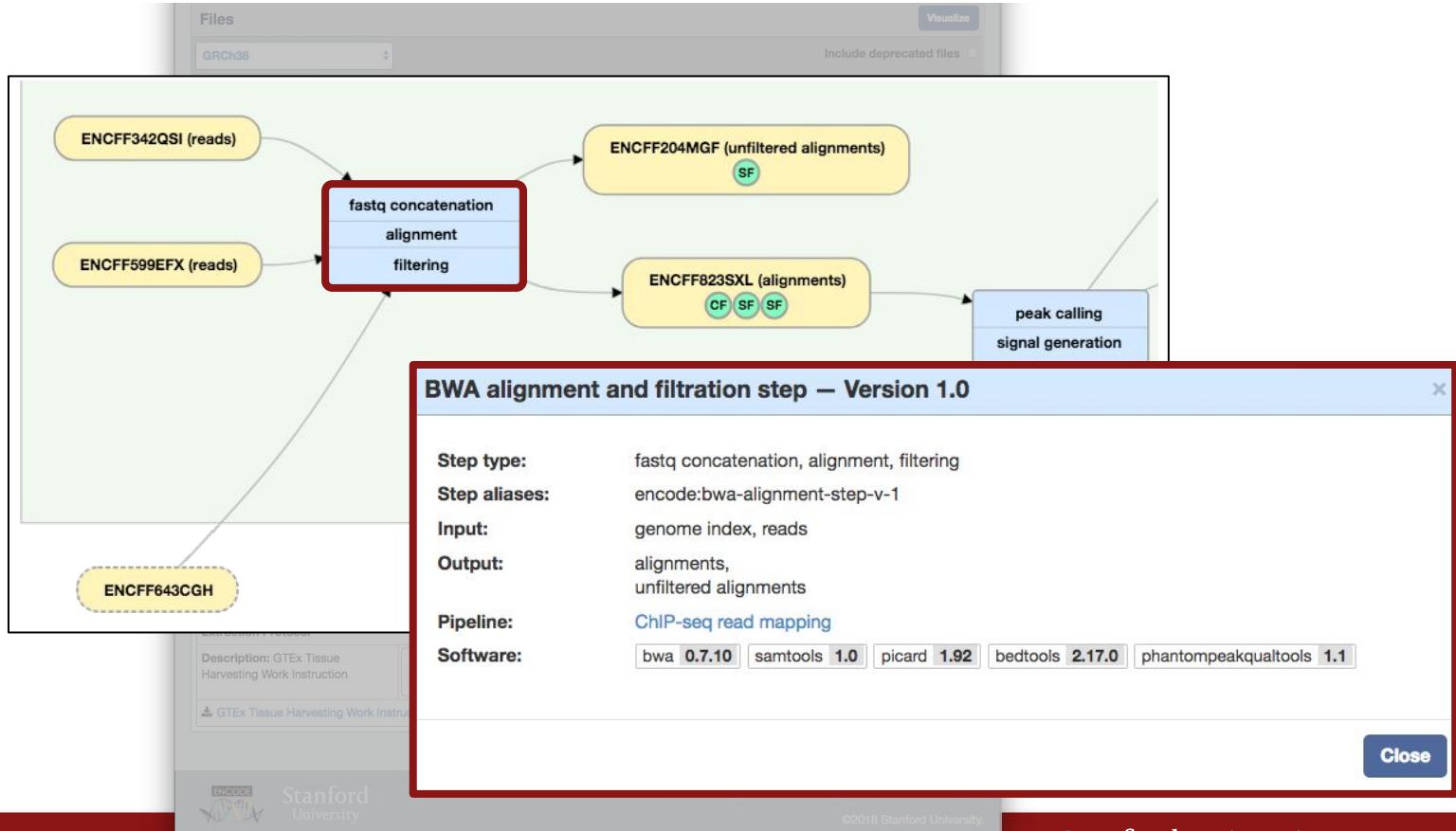
QC metric bubbles



An ENCODE experiment

<https://www.encodeproject.org/ENCSR982QIF>

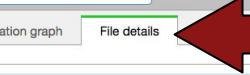
Pipeline step metadata



An ENCODE experiment

<https://www.encodeproject.org/ENCSR982QIF>

File graph <-> table



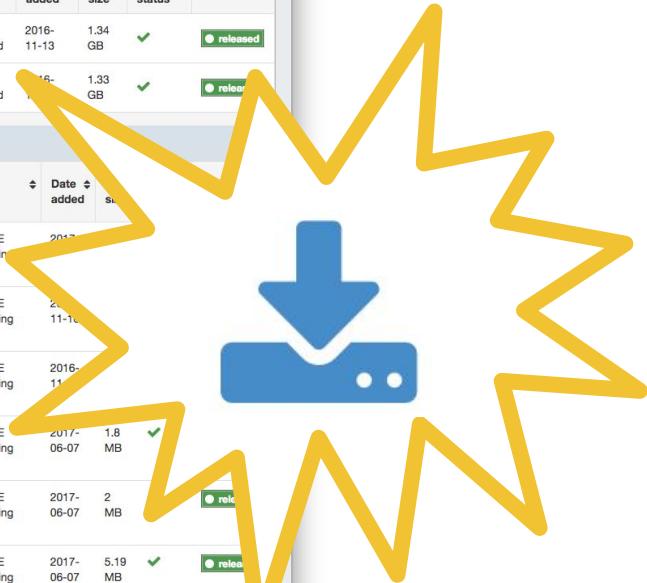
Raw sequencing data										
Isogenic replicate	Library	Accession	File type	Run type	Read	Lab	Date added	File size	Audit status	File status
1	ENCLB626HJU	ENCFF599EFX	fastq	SE76nt		Bradley Bernstein, Broad	2016-11-13	1.34 GB	✓	released
1	ENCLB626HJU	ENCFF342QSI	fastq	SE76nt		Bradley Bernstein, Broad	2016-11-13	1.33 GB	✓	released
Processed data										
Accession	File type	Output type	Isogenic replicate	Mapped read length	Mapping assembly	Lab	Date added	File size	Audit status	File status
ENcff109PKU	bigWig	fold change over control	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	953 MB	✓	released
ENcff204MGF	bam	unfiltered alignments	1	76	GRCh38	ENCODE Processing Pipeline	2016-11-16	2.33 GB	✓	released
ENcff823SXL	bam	alignments	1	76	GRCh38	ENCODE Processing Pipeline	2016-11-16	1.96 GB	✓	released
ENcff291LEP	bed narrowPeak	stable peaks	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	1.8 MB	✓	released
ENcff020COG	bed narrowPeak	peaks	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	2 MB	✓	released
ENcff569JQ	bigBed narrowPeak	peaks	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	5.19 MB	✓	released
ENcff818NBU	bigBed narrowPeak	stable peaks	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	3.39 MB	✓	released

An ENCODE experiment

<https://www.encodeproject.org/ENCSR982QIF>

ENCODE IS ALL OPEN ACCESS!!!!

Files										
GRCh38										
Association graph File details										
Displaying 10 of 18 files										
Raw sequencing data										
Isogenic replicate	Library	Accession	File type	Run type	Read	Lab	Date added	File size	Audit status	File status
1	ENCLB626HJU	ENCFF599EFX	fastq	SE76nt		Bradley Bernstein, Broad	2016-11-13	1.34 GB	✓	released
1	ENCLB626HJU	ENCFF342QSI	fastq	SE76nt		Bradley Bernstein, Broad	2016-11-13	1.33 GB	✓	released
Processed data										
Accession	File type	Output type	Isogenic replicate	Mapped read length	Mapping assembly	Lab	Date added	File size	Audit status	File status
ENcff109PKU	bigWig	fold change over control	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	1.8 MB	✓	released
ENcff204MGF	bam	unfiltered alignments	1	76	GRCh38	ENCODE Processing Pipeline	2017-06-07	2.0 MB	✓	released
ENcff823SXL	bam	alignments	1	76	GRCh38	ENCODE Processing Pipeline	2016-11-13	1.8 MB	✓	released
ENcff291LEP	bed narrowPeak	stable peaks	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	1.8 MB	✓	released
ENcff020COG	bed narrowPeak	peaks	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	2 MB	✓	released
ENcff569JQ	bigBed narrowPeak	peaks	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	5.19 MB	✓	released
ENcff818NBU	bigBed narrowPeak	stable peaks	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	3.39 MB	✓	released



An ENCODE experiment

<https://www.encodeproject.org/ENCSR982QIF>

Assembly drop-down

A screenshot of the ENCODE project interface. A large red arrow points to the 'GRCh38' option in a dropdown menu titled 'All Assemblies and Annotations'. The dropdown also includes 'hg19' and other options like 'Association graph' and 'File details'. Below the dropdown is a table titled 'Raw sequencing data' with two rows of data. Another table titled 'Processed data' follows, containing eight rows of data. The tables have various columns including Isogenic replicate, Library, Accession, File type, Run type, Read, Lab, Date added, File size, Audit status, and File status.

Accession	File type	Output type	Isogenic replicate	Mapped read length	Mapping assembly	Lab	Date added	File size	Audit status	File status
ENcff109PKU	bigWig	fold change over control	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	953 MB	✓	released
ENcff204MGF	bam	unfiltered alignments	1	76	GRCh38	ENCODE Processing Pipeline	2016-11-16	2.33 GB	✓	released
ENcff823SXL	bam	alignments	1	76	GRCh38	ENCODE Processing Pipeline	2016-11-16	1.96 GB	✓	released
ENcff291LEP	bed narrowPeak	stable peaks	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	1.8 MB	✓	released
ENcff020COG	bed narrowPeak	peaks	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	2 MB	✓	released
ENcff569JQ	bigBed narrowPeak	peaks	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	5.19 MB	✓	released
ENcff818NBU	bigBed narrowPeak	stable peaks	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	3.39 MB	✓	released

An ENCODE experiment

<https://www.encodeproject.org/ENCSR982QIF>

Visualize options

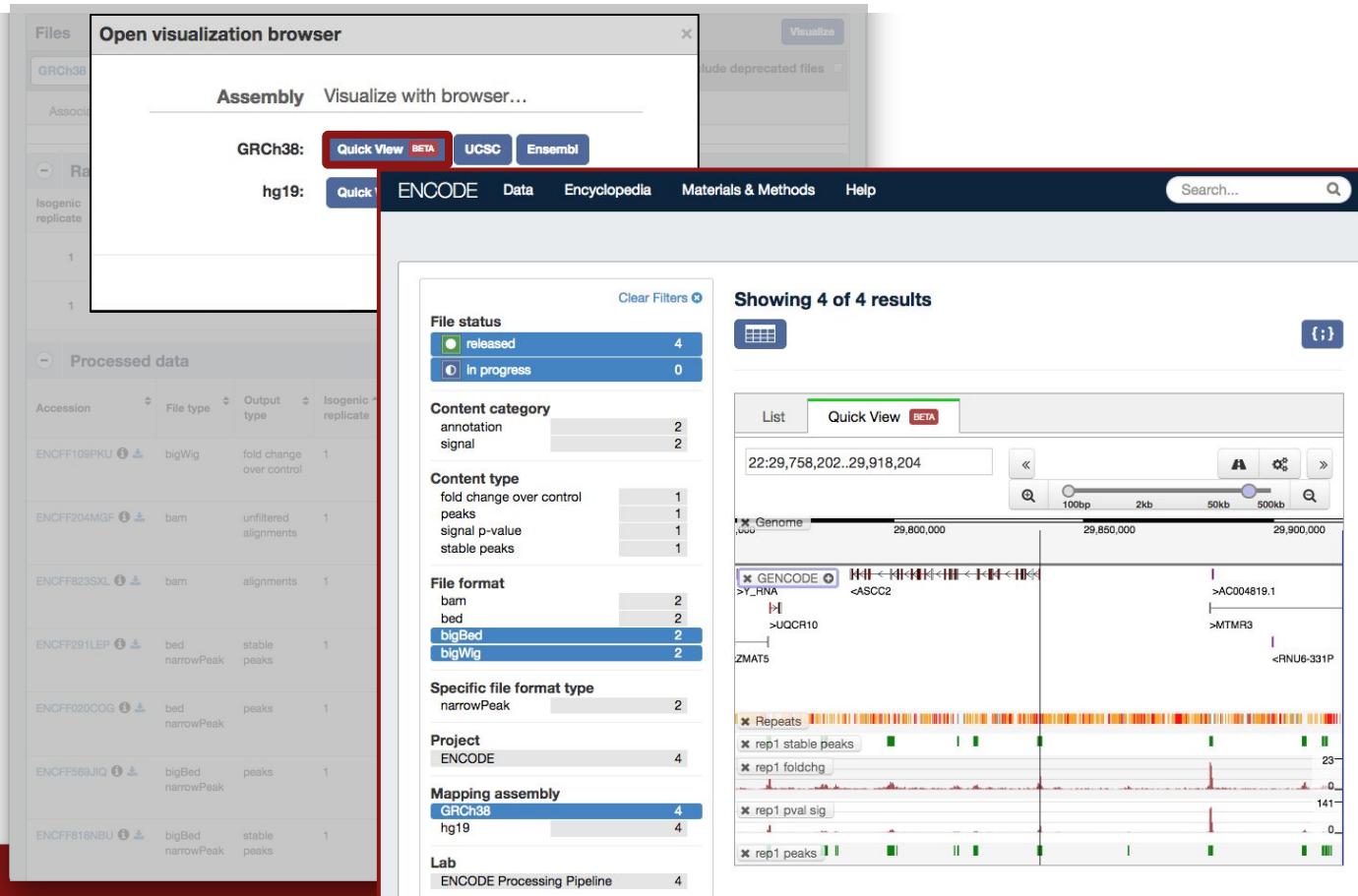
The screenshot shows a modal window titled "Open visualization browser" with a red border. Inside, there are two sections: "Assembly" and "Visualize with browser...". Under "Assembly", GRCh38 has "Quick View BETA", "UCSC", and "Ensembl" buttons. hg19 has "Quick View BETA" and "UCSC" buttons. Below this is a table of "Processed data" with columns: Accession, File type, Output type, Isogenic replicate, Mapped read length, Mapping assembly, Lab, Date added, File size, Audit status, and File status. The table lists several entries, all marked as "released" with green checkmarks.

Accession	File type	Output type	Isogenic replicate	Mapped read length	Mapping assembly	Lab	Date added	File size	Audit status	File status
ENcff109PKU	bigWig	fold change over control	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	953 MB	✓	released
ENcff204MGF	bam	unfiltered alignments	1	76	GRCh38	ENCODE Processing Pipeline	2016-11-16	2.33 GB	✓	released
ENcff823SXL	bam	alignments	1	76	GRCh38	ENCODE Processing Pipeline	2016-11-16	1.96 GB	✓	released
ENcff291LEP	bed narrowPeak	stable peaks	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	1.8 MB	✓	released
ENcff020COG	bed narrowPeak	peaks	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	2 MB	✓	released
ENcff569JQ	bigBed narrowPeak	peaks	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	5.19 MB	✓	released
ENcff818NBU	bigBed narrowPeak	stable peaks	1		GRCh38	ENCODE Processing Pipeline	2017-06-07	3.39 MB	✓	released

An ENCODE experiment

<https://www.encodeproject.org/ENCSR982QIF>

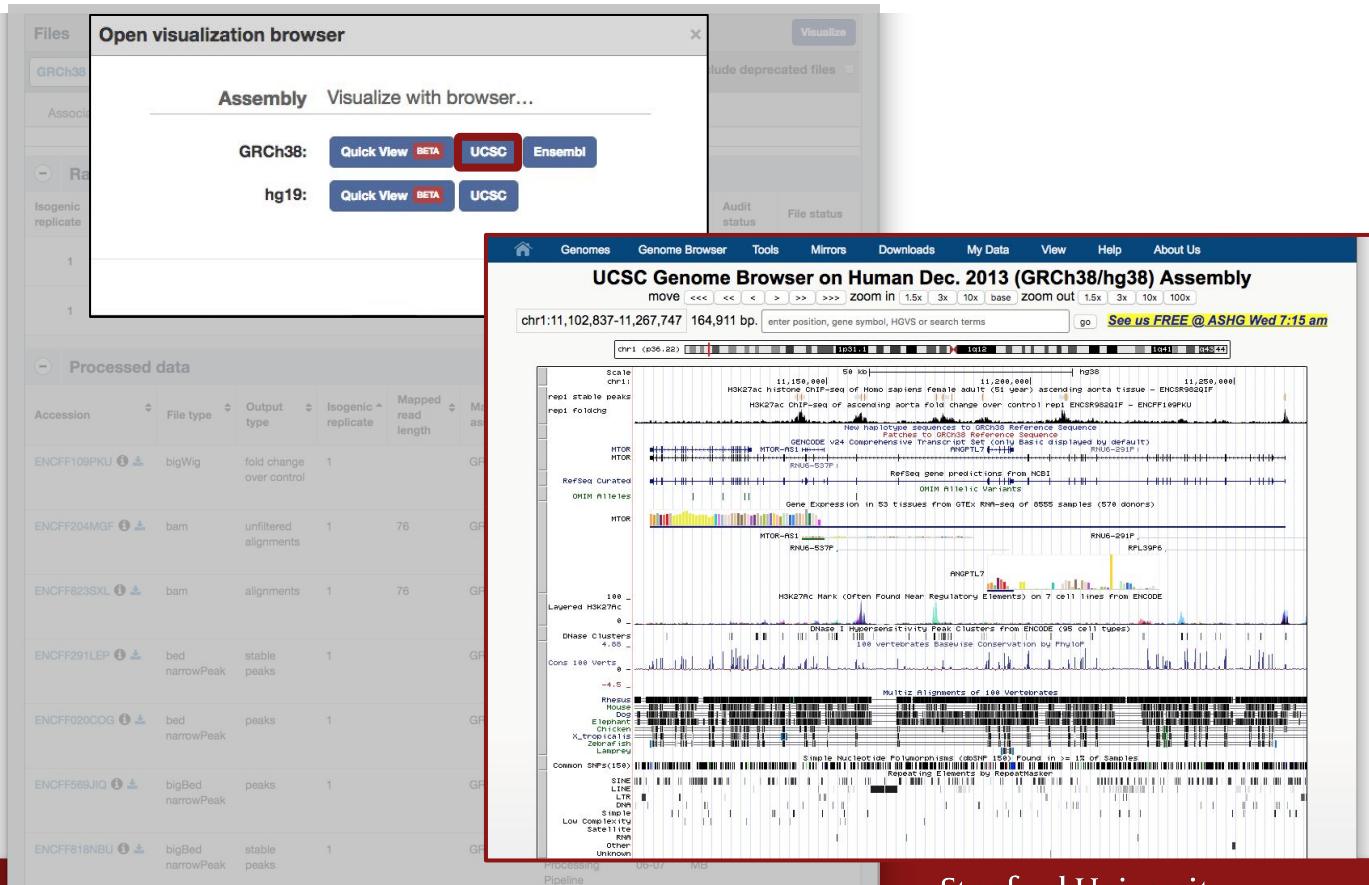
Quick viz on ENCODE portal



An ENCODE experiment

<https://www.encodeproject.org/ENCSR982QIF>

Viz at UCSC/Ensembl



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<https://www.encodeproject.org/ENCSR982QIF>

Supplementary docs

Files

GRCh38

Association graph File details

Replicate 1

Download Graph

Documents

High Resolution Pathology Slide Image
Description excerpt: High-resolution whole slide digital images of pathological specimens (SVS...)
84258.svs

Pipeline Protocol
Description: ChIP mapping pipeline: Includes overview and references for the pipeline
ChIP-seq_Mapping_Pipeline_Overview.r

General Protocol
Description: PRC Case Summary Report For Case 4
ENC_Case-4_DEJ_PRCcsr_Redacted.p

Data Sheet
Description: Mapping of high resolution images (SVS format) ids to tissues
Encode Public IDs.pdf

General Protocol
Description: Epigenomics Alternative Mag Bead ChIP Protocol v1.1 exp
Epigenomics_Alternative_Mag_Bead_Ci

Extraction Protocol
Description: GTEx Tissue Harvesting Work Instruction
GTEx Tissue Harvesting Work Instruction

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An ENCODE experiment

<https://www.encodeproject.org/ENCSR982QIF>

Growth, library prep, analysis protocols, etc.

The screenshot shows a 'Documents' section within the ENCODE project interface. The interface has a header with 'Files' and 'GRCh38' dropdowns, and tabs for 'Association graph' and 'File details'. A red border highlights the 'Documents' section. Inside, there are six cards representing different types of protocols:

- High Resolution Pathology Slide Image**
Description excerpt: High-resolution whole slide digital images of pathological specimens (SVS...)
Download link: [84258.svs](#)
- Pipeline Protocol**
Description: ChIP mapping pipeline: Includes overview and references for the pipeline
Download link: [ChIP-seq_Mapping_Pipeline_Overview.pdf](#)
- General Protocol**
Description: PRC Case Summary Report For Case 4
Download link: [ENC_Case-4_DEJ_PRCcsr_Redacted.pdf](#)
- General Protocol**
Description: GTEx ENCODE Tissue Recovery Form II, Case 4
Download link: [ENC_Case-4_DEJ_TRF_revised.pdf](#)
- Data Sheet**
Description: Mapping of high resolution images (SVS format) ids to tissues
Download link: [Encode Public IDs.pdf](#)
- General Protocol**
Description: Epigenomics Alternative Mag Bead ChIP Protocol v1.1 exp
Download link: [Epigenomics_Alternative_Mag_Bead_Ct](#)
- Extraction Protocol**
Description: GTEx Tissue Harvesting Work Instruction
Download link: [GTEx Tissue Harvesting Work Instructio](#)

An ENCODE experiment

<https://www.encodeproject.org/ENCSR982QIF>

ENCODE Data Encyclopedia Materials & Methods Help Search...

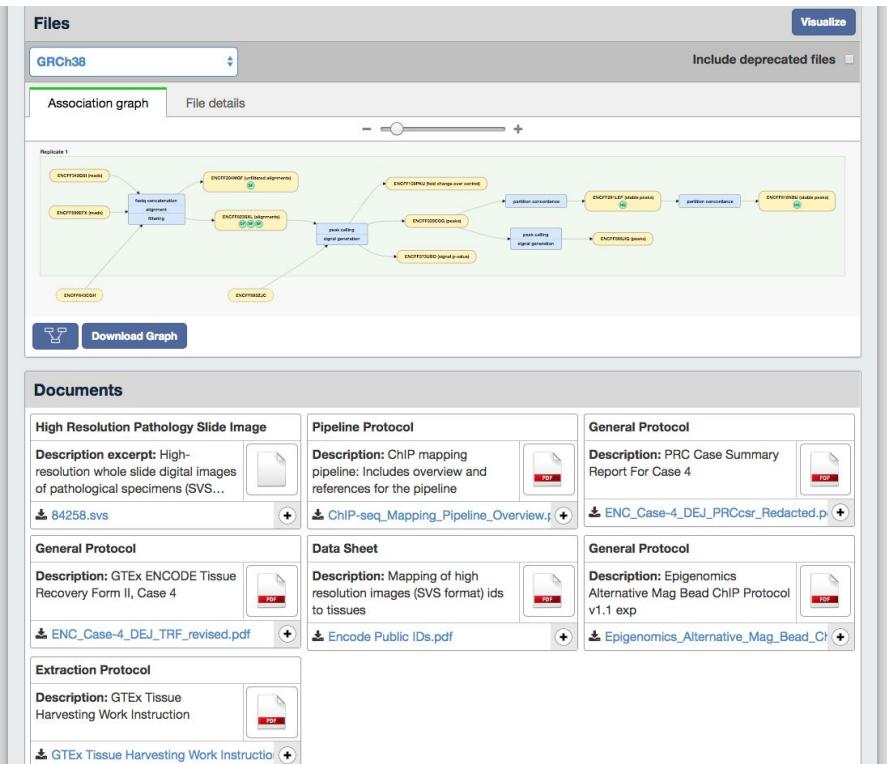
EXPERIMENTS / CHIP-SEQ / HOMO SAPIENS / ASCENDING AORTA

Experiment summary for ENCSR982QIF

Summary		Attribution	
Status:	released	Lab:	Bradley Bernstein, Broad
Assay:	ChIP-seq	Award:	U54HG006991 (Bradley Bernstein, Broad)
Target:	H3K27ac	Project:	ENCODE
Biosample summary:	<i>Homo sapiens</i> ascending aorta female adult (51 year)	External resources:	GEO:GSE101384
Biosample Type:	tissue	Aliases:	bradley-bernstein:Project Element 2547
Replication type:	unreplicated	Date submitted:	November 13, 2016
Nucleic acid type:	DNA	Date released:	June 8, 2017
Size range:	200-600	Related datasets:	ENCSR818FUR
Fragmentation method:	sonication (generic)	Tags:	
Strand specificity:	Non-strand-specific		
Platform:	Illumina HiSeq 2500		
Controls:	ENCSR494YJW		

Isogenic replicates

Isogenic replicate	Technical replicate	Summary	Biosample	Antibody	Library
1	1	female adult (51 year) ascending aorta tissue	ENCBS273PSC	ENCAB000AQN	ENCLB626HJJ



Browsing the ENCODE portal

The screenshot shows the ENCODE Encyclopedia homepage. At the top, there's a navigation bar with links to ENCODE, Data, Encyclopedia, Materials & Methods, Help, and a search bar. Below the header is a main content area titled "ENCODE: Encyclopedia of DNA Elements".

The central feature is a diagram illustrating the ENCODE project's focus on DNA elements. It shows a chromosome with various regulatory elements like Hypersensitive Sites, ATAC-seq, ChIP-seq, DNase-seq, 5C, ChIA-PET, Hi-C, WGBS, RRBS, methyl array, Computational predictions, RNA-seq, and CLIP-seq/RIP-seq. These elements are mapped to Promoters, Genes, and Transcripts.

To the right of the diagram are three search boxes: "Search ENCODE portal", "About ENCODE Encyclopedia", and "Search for Candidate Regulatory Elements". Below these are buttons for "Human hg19 C.", "Mouse mm10 C.", and "ENCODE Q.". A note at the bottom of the diagram states: "Based on an image by Darryl Leja (NHGRI), Ian Dunham (EBI), Michael Pazin (NHGRI)".

Below the diagram are three circular charts: "Project" (14348 total), "Biosample Type" (14348 total), and "Assay Categories". The "Assay Categories" chart includes a bar chart showing the count of assays for various categories: DNA binding (~8000), DNA accessibility (~3000), RNA binding (~1000), RNA methylation (~500), Replication timing (~500), 3D chromatin structure (~500), Proteomics (~500), and RNA sequencing (~500).

At the bottom, there are social media links for Twitter (@EncodeDCC) and News (More ENCODE news).

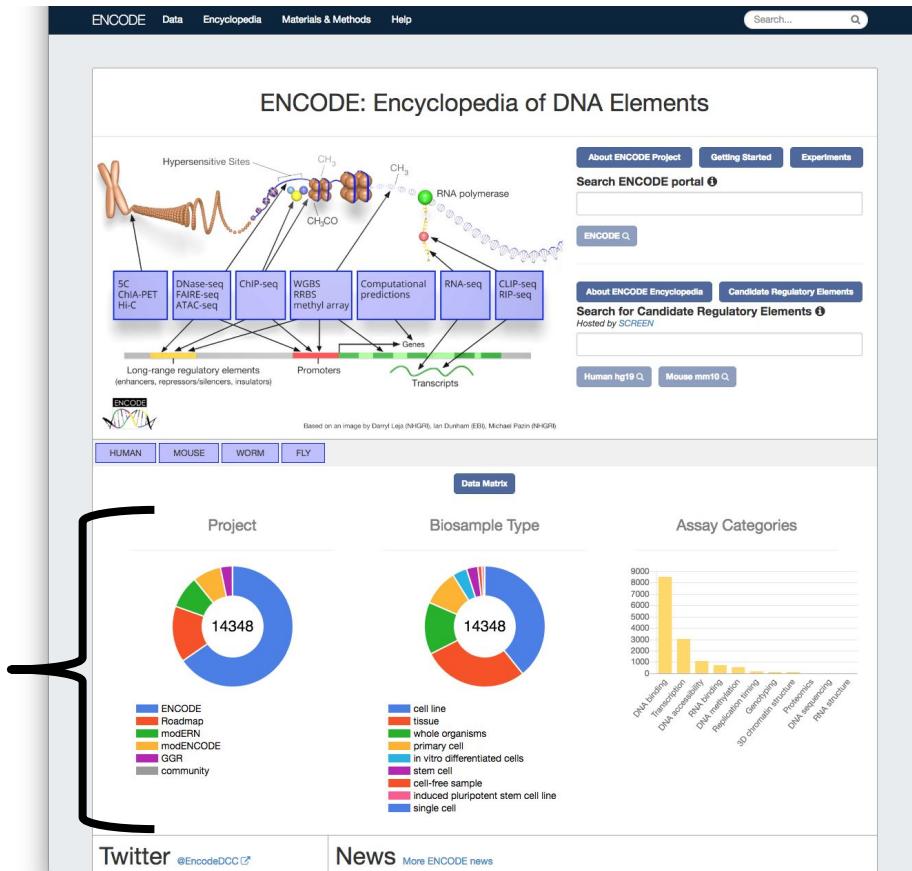
Browsing the ENCODE portal

Jumping in: matrix



Browsing the ENCODE portal

Jumping in: matrix

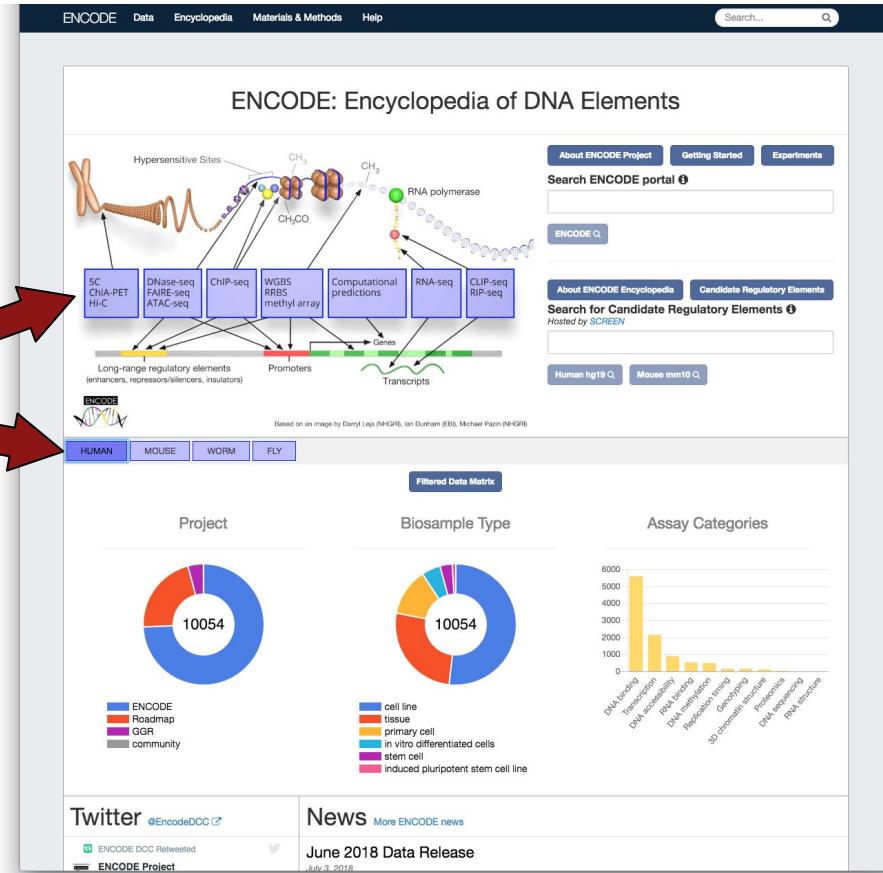


Jump to
filtered
matrix

Browsing the ENCODE portal

Jumping in: matrix

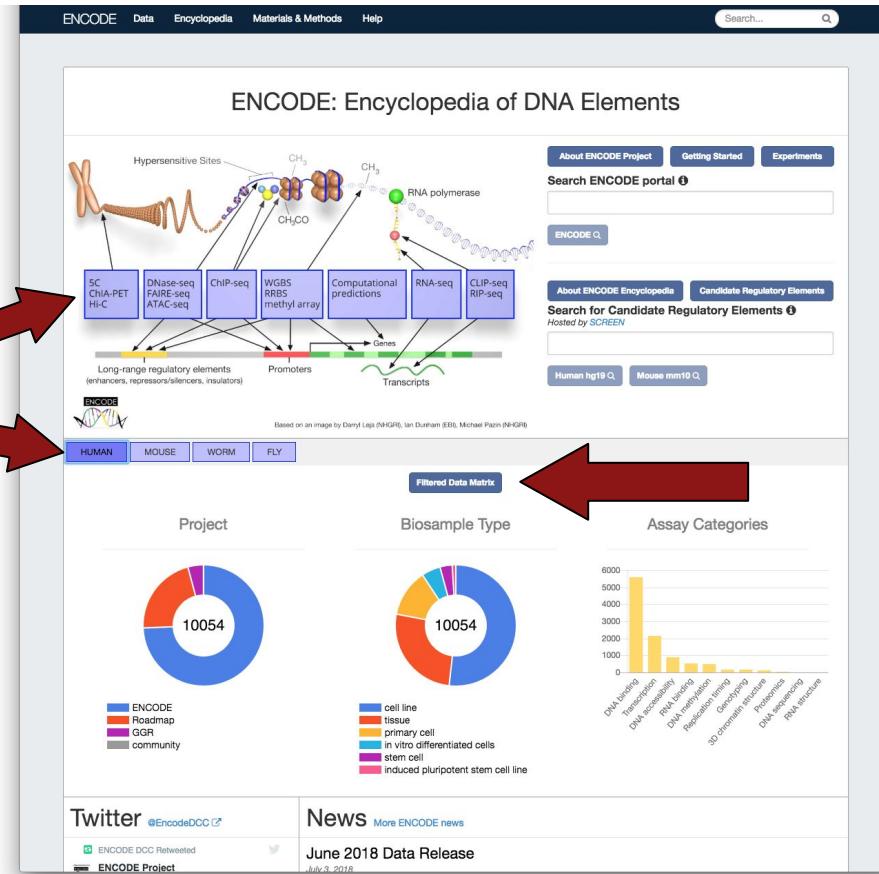
Filter by
assay category
& organism



Browsing the ENCODE portal

Jumping in: matrix

Filter by
assay category
& organism



Browsing the ENCODE portal

Experiment matrix

ENCODE Data Encyclopedia Materials & Methods Help Search...

Experiment Matrix

Click or enter search terms to filter the experiments included in the matrix.

Enter search term(s)

Assay	Assay category	Target of assay	Date released	Available data
ChIP-seq	DNA binding	transcription factor	July, 2013	fastq
DNase-seq	Transcription	histone	2156	9352
shRNA RNA-seq	control	2216	October, 2011	bam
TCF	accessibility	1390	445	9126
eCLIP	RNA binding	proteins	October, 2016	bigWig
polyA RNA-seq	DNA methylation	broad histone mark	November, 2016	8287
			May, 2016	bed narrowPeak
			300	5413
				bigBed
				narrowPeak
				5400

+ See more... + See more...

Organism

<i> Homo sapiens</i>	10054
<i> Mus musculus</i>	1785
<i> Drosophila melanogaster</i>	1844
<i> Caenorhabditis elegans</i>	955
<i> Drosophila pseudoobscura</i>	4

+ See more...

Biosample type

cell line	5207
tissue	2357
primary cell	1277
in vitro differentiated cells	509
stem cell	327

+ See more...

Organ

blood	2404
body fluid	244
liver	1050
lung	809
epithelium	577

+ See more...

Project

ENCODE	7477
Roadmap	2156
GGP	418
community	3

Genome assembly (visualization)

hg19	7520
GRCh38	7415

Lab

Bradley Bernstein, Broad	1670
Michael Snyder, Stanford	1668
John Stamatopoulou, UW	1327
Richard Myers, HAB	1310
Thomas Gingeras, CSHL	651

+ See more...

Audit category: A

missing control alignments	183
extremely low read depth	177
missing analysis_step_run	131
missing antibody	72
extremely low spot score	47

+ See more...

Audit category: B

insufficient read depth	1372
control insufficient read depth	720

+ See more... + See all biosamples

ASSAY

10054 results

Clear Filters

ChIP-seq DNase-seq shRNA RNA-seq SC-seq polyA RNA-seq DNase assay total RNA-seq smRNA-seq RMA microarray sequencing array microRNA-seq RT-qPCR ATAC-seq ChIP-seq RNA-seq siRNA RNA-seq ...and 21 more

cell line	K562	HEK293T	HepG2	A549	GM12878	HEK293
K562	669	10	268	245	19	3
HEK293T	3	255	210	11	3	3
HepG2	35	2	3	5	3	6
A549	372	14	27	2	9	2
GM12878	227	2	13	3	6	7
HEK293	255		2	1	2	6

+ See 165 more...

tissue	stomach	adrenal gland	liver	sigmoid colon	transverse colon
stomach	51	20	10	3	5
adrenal gland	45	11	8	6	4
liver	73	2	3	1	2
sigmoid colon	51	2	4	4	4
transverse colon	39	4	4	4	4

+ See 128 more...

primary cell	foreskin keratinocyte	endothelial cell of umbilical vein	common myeloid progenitor, CD34+	keratinocyte	B cell
foreskin keratinocyte	37	2	5	5	5
endothelial cell of umbilical vein	35	2	5	1	2
common myeloid progenitor, CD34+	42	12	1		1
keratinocyte	23	2	5	3	6
B cell	35	5	2	1	1

+ See 117 more...

in vitro differentiated cells	dendritic cell	mesenchymal stem cell	neural stem progenitor cell	neuronal cell	trophoblast cell
dendritic cell	11		20		24
mesenchymal stem cell	36	1	2	1	1
neural stem progenitor cell	32	1	2	1	2
neuronal cell	24	1	3	1	
trophoblast cell	27	1	1	1	1

+ See 31 more...

stem cell	H1-hESC	HEK293T	IPS DF 19.11	IPS DF 6.9	IPS-20b	IPS-15b
H1-hESC	146	3	9	2	1	4
HEK293T	37	7	1	1		1
IPS DF 19.11	10	2	1	1	2	1
IPS DF 6.9	9		2		1	
IPS-20b					10	
IPS-15b					8	

+ See 13 more...

induced pluripotent stem cell	GM2338	IPS DF 19.11	IPS DF 6.9	IPS-20b	IPS-15b
GM2338	25	1	1	1	1
IPS DF 19.11	8	1			1
IPS DF 6.9	8	1			1
IPS-20b	10				
IPS-15b	8				

+ See 13 more...

See all biosamples

Browsing the ENCODE portal

ENCODE Data Encyclopedia Materials & Methods Help Search...

Experiment Matrix

Click or enter search terms to filter the experiments included in the matrix.

Enter search term(s)

Organism

<i>Homo sapiens</i>	10054
<i>Mus musculus</i>	1789
<i>Drosophila melanogaster</i>	1884
<i>Caenorhabditis elegans</i>	955
<i>Drosophila pseudoobscura</i>	4

Biosample type

cell line	5207
tissue	2837
primary cell	1277
in vitro differentiated cells	509
stem cell	327

Organ

blood	2404
body fluid	2404
liver	1059
lung	829
epithelium	577

Project

ENCODE	7477
Roadmap	2158
GGR	418
community	3

Genome assembly (visualization)

hg19	7520
GRCh38	7415

Lab

Bradley Bernstein, Broad	1670
Michael Snyder, Stanford	1698
John Stamatopoulou, UW	1327
Richard Myers, HAB	1310
Thomas Gingeras, CSHL	651

Audit category: ▲

missing control alignment	183
extremely low read depth	177
missing analysis_step_run	131
missing antibody	72
extremely low spot score	47

Audit category: ▼

insufficient read depth	1372
control insufficient read depth	720

Induced pluripotent stem cell

GM2338	25	1	1	1	1	1	1
IPS DF 19.11	8	1					
IPS DF 6.9	8	1					
IPS-205	10						
IPS-156	8						

+ See 13 more...
+ See all biosamples

BIOSAMPLES

10054 results

Clear Filters

cell line

	K562	669	10	268	245	19	3	11	7	10	1	2	1	2	6
HepG2	355	3	255	210	11	3	5	3	6	2	2	2	2	6	
A549	374	14			27	2		9	2	2	2	1	2	2	
GM12878	227	2			13	3	3	6	7	1	2	1	2	6	
HEK293	255				2			1							

+ See 165 more...

tissue

	stomach	51	20		10	3	5	4		5	6			
adrenal gland	45	11		4	8	6	4	2		4	5	2		
liver	73	2		3	1	2	1			2	1			
sigmoid colon	51			4	4	4	4			4	2			
transverse colon	39	4		4	4	4				4	4			

+ See 128 more...

primary cell

	foreskin keratinocyte	37	2		5	3	13	1		3				
endothelial cell of umbilical vein	35			5	1	1	2	1		6				

+ See 13 more...

induced pluripotent stem cell

	GM2338	25	1	1	1	1	1	1						
IPS DF 19.11	8	1												
IPS DF 6.9	8	1												
IPS-205	10													
IPS-156	8													

+ See 13 more...

ASSAYS

10054 results

Clear Filters

	ChIP-seq	DNase-seq	shRNA RNA-seq	eCLIP	polyA RNA-seq	DNAme array	total RNA-seq	small RNA-seq	RNA microarray	RAMPAGE	Genotyping array	WGBS	microR.
K562	669	10	268	245	19	3	11	7	10	1	2	1	2
HepG2	355	3	255	210	11	3	5	3	6	2	2	2	6
A549	374	14			27	2		9	2	2	1	2	2
GM12878	227	2			13	3	3	6	7	1	2	1	2
HEK293	255				2			1					

Browsing the ENCODE portal

The image shows the ENCODE Experiment Matrix search results for the term "BIOSAMPLES". The results are displayed in a grid format with the following columns:

Assay	Count	Assay category	Count	Target of	Count
ChIP-seq	5601	DNA binding	5601	histone	1
DNase-seq	726	Transcription	2161	transcript	1
shRNA RNA-seq	523	DNA accessibility	898	control	1
eCLIP	459	RNA binding	511	RNA binding	1
polyA RNA-seq	392	DNA methylation	473	broad his	1

10054 results

Clear Filters

cell line

Cell Line	Count	ChIP-seq	DNase-seq	shRNA RNA-seq	eCLIP	polyA RNA-seq	DNase array	total RNA-seq	small RNA-seq	RNA microarray	RAMPAGE	Genotyping array	WGBS	microR.
K562	669	10	268	245	19	3	11	7	10	1	2	1	2	6
HepG2	355	3	255	210	11	3	5	3	6	2	2	2	2	6
A549	374	14			27	2	9	2	2	1	2	1	2	2
GM12878	227	2			13	3	3	6	7	1	2	1	2	6
HEK293	255					2		1						

+ See 165 more...

tissue

Tissue	Count	ChIP-seq	DNase-seq	shRNA RNA-seq	eCLIP	polyA RNA-seq	DNase array	total RNA-seq	small RNA-seq	RNA microarray	RAMPAGE	Genotyping array	WGBS	microR.
stomach	51	20				10	3	5	4	5	6			
adrenal gland	45	11				4	8	6	4	2	4	5	2	
liver	73	2				3	1	2	1	2	1			
sigmoid colon	51	2				4	4	4	4	4	4	2		
transverse colon	39	4				4	4	4	4	4	4			

+ See 128 more...

primary cell

Primary Cell	Count	ChIP-seq	DNase-seq	shRNA RNA-seq	eCLIP	polyA RNA-seq	DNase array	total RNA-seq	small RNA-seq	RNA microarray	RAMPAGE	Genotyping array	WGBS	microR.
foreskin keratinocyte	37	2				5	3	13	1	3			3	
endothelial cell of umbilical vein	35	2				5	1	1	2	1			1	6

Browsing the ENCODE portal

Facets

Assay category

DNA binding	5601
Transcription	2161
DNA accessibility	898
RNA binding	511
DNA methylation	473

Target of assay

transcription factor	2641
histone	2216
control	1390
RNA binding protein	1276
broad histone mark	1253

[+ See more...](#)

Organism

Homo sapiens	10054
Mus musculus	1789
Drosophila melanogaster	1384
Caenorhabditis elegans	955
Drosophila pseudoobscura	4

[+ See more...](#)

Organ

blood	2404
bodily fluid	2404
liver	1050
lung	809
epithelium	577

[+ See more...](#)

Experiment matrix

10054 results

[Clear Filters](#)

cell line

	K562	669	10	268	245	19	3	11	7	10	1	2	1	2	6
HepG2	355	3	255	210	11	3	5	3	6	2	2	2	2	6	
A549	374	14			27	2	9	2		2	1	2	2	2	
GM12878	227	2			13	3	3	6	7	1	2	1	2	6	
HEK293	255				2		1								

[+ See 165 more...](#)

tissue

	stomach	51	20	10	3	5	4	5	6
adrenal gland	45	11	4	8	6				
liver	73	2		3	1	2	1	2	1
sigmoid colon	51	2		4	4				
transverse colon	39	4							

[+ See 128 more...](#)

primary cell

	foreskin keratinocyte	37	2	5	1									
endothelial cell of umbilical vein	35	2												
common myeloid progenitor, CD34+	42	12												
keratinocyte	23	2												
B cell	35	5												

[+ See 117 more...](#)

in vitro differentiated cells

	dendritic cell	11												
mesenchymal stem cell	36	1												
neural stem progenitor cell	32	1												
neural cell	24													
trophoblast cell	27	1												

[+ See 31 more...](#)

stem cell

	H1-hESC	146	3	9	2									
HR	37	7												
HT-hESC	10	2												
HUE564	9													
HUE548	9													

[+ See 13 more...](#)

induced pluripotent stem cell

	GM2338	25	1	1	1	1	1	1						
IPS DF 19.11	8	1												
IPS DF 6.9	8	1												
IPS-205	10													
IPS-156	8													

[+ See 13 more...](#)

biosamples

|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

[+ See all biosamples](#)

ChIP-seq **DNase-seq** **shRNA RNA-seq** **eCLIP** **polyA RNA-seq** **DNAme array** **total RNA-seq** **small RNA-seq** **RNA microarray** **RAMPAGE** **Genotyping array** **WGBS** **micro...**

Browsing the ENCODE portal

Facets

Assay category

DNA binding	545
Transcription	127
DNA accessibility	76
DNA methylation	32
Genotyping	11

[+ See more...](#)

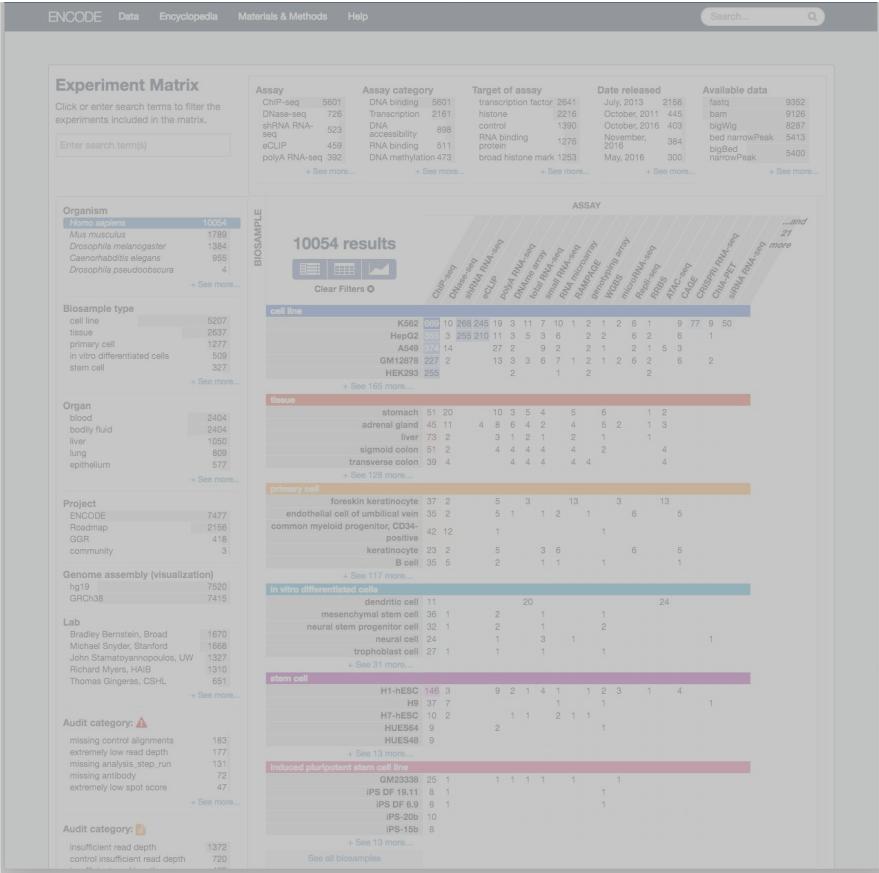
Organism

Homo sapiens	10054
<i>Mus musculus</i>	1789
<i>Drosophila melanogaster</i>	1384
<i>Caenorhabditis elegans</i>	955
<i>Drosophila pseudoobscura</i>	4

[+ See more...](#)

Organ

blood	585
bodily fluid	585
liver	337
epithelium	181
skin of body	154
lung	127
connective tissue	121



Experiment matrix

Browsing the ENCODE portal

Assay category	
DNA binding	545
Transcription	127
DNA accessibility	76
DNA methylation	32
Genotyping	11
+ See more...	

Organism	
Homo sapiens	10054
Mus musculus	1789
Drosophila melanogaster	1384
Caenorhabditis elegans	955
Drosophila pseudoobscura	4
+ See more...	

Organ	
blood	585
bodily fluid	585
liver	337
epithelium	181
skin of body	154
lung	127
connective tissue	121

ENCODE Data Encyclopedia Materials & Methods Help

Search...

Experiment Matrix

Click or enter search terms to filter the experiments included in the matrix.

Enter search term(s)

Assay	Assay category	Target control	
polyA RNA-seq	49	DNA binding	
small RNA-seq	26	Transcription	127
total RNA-seq	14	DNA accessibility	76
RNA microarray	11	DNA methylation	32
RAMPAGE	10	Genotyping	11

+ See more... + See more...

BIOSAMPLE

127 results

Clear Filters

ASSAY

	polyA RNA-seq	small RNA-seq	total RNA-seq	RNA microarray	RAMPAGE	CAGE	RNA-PET	microRNA-seq	polyA depleted RN...
cell line	A549 27 9 2 3 3 1	IMR-90 3 9 2 3 3 1	NCI-H460 2 2 1 3	AG04450 1 1 1 1	WI38 2				
tissue	upper lobe of left lung 4 4 4	left lung 6							
	lung 3 1 1 1								
primary cell	fibroblast of lung 2 1 2	bronchial epithelial cell 1 2	lung microvascular endothelial cell 1						
	bronchus fibroblast of lung 1 1								
	epithelial cell of alveolus of lung 1 1								

+ See 1 more... See all biosamples

Download Visualize

BIOSAMPLE

127 results

Clear Filters

cell line

A549 27 9 2 3 3 1
IMR-90 3 9 2 3 3 1
NCI-H460 2 2 1 3
AG04450 1 1 1 1
WI38 2

tissue

upper lobe of left lung 4 4 4
left lung 6
lung 3 1 1 1
right lung 5

primary cell

fibroblast of lung 2 1 2
bronchial epithelial cell 1 2
lung microvascular endothelial cell 1 2
bronchus fibroblast of lung 1 1
epithelial cell of alveolus of lung 1 1

+ See 1 more...

Experiment matrix

Browsing the ENCODE portal

Use of ontology

The screenshot shows the ENCODE portal interface with several search results and filters applied:

- Assay category:** DNA binding (545), Transcription (127, highlighted in blue), DNA accessibility (76), DNA methylation (32), Genotyping (11). A link "+ See more..." is present.
- Target of assay:** control (1, highlighted in blue).
- Organism:** Homo sapiens (10054, highlighted in blue), Mus musculus (1789), Drosophila melanogaster (1384), Caenorhabditis elegans (955), Drosophila pseudoobscura (4). A link "+ See more..." is present.
- Organ:** lung (127, highlighted in blue), connective tissue (121), bodily fluid (585), liver (337), epithelium (181), skin of body (154), blood (585), connective tissue (121).
- Experiment Matrix:** Shows assay types like polyA RNA-seq, small RNA-seq, total RNA-seq, RNA microarray, RAMPAGE, etc., and their counts (e.g., 49 for polyA RNA-seq, 545 for DNA binding).
- Biosample:** A grid showing 127 results across cell lines (A549, IMR-90, NCI-H460, AG04450, WI38) and tissues (upper lobe of left lung, left lung, right lung).
- Sub-tissues & cell types & cell lines derived from an organ:** A red arrow points from this section towards the ontology-based search results on the right.

The screenshot shows the ENCODE portal interface with results filtered by ontology terms:

BIOSAMPLE

ASSAY

127 results

Clear Filters

cell line

	A549	IMR-90	NCI-H460	AG04450	WI38	
polyA RNA-seq	27	3	2	1	2	1
small RNA-seq	9	9	2	1	1	1
total RNA-seq	3	3	3	1	1	1
RNA microarray	1	1	1	1	1	1
RAMPAGE	1	1	1	1	1	1
CAGE	3	3	3	1	1	1
RNA-PET	3	3	3	1	1	1
polyA depleted RNA-seq	1	1	1	1	1	1
microRNA-seq	1	1	1	1	1	1

tissue

	upper lobe of left lung	left lung	right lung	
upper lobe of left lung	4	4	4	1
left lung	6	6	6	1
right lung	5	5	5	1

primary cell

	fibroblast of lung	bronchial epithelial cell	lung microvascular endothelial cell	bronchus fibroblast of lung	epithelial cell of alveolus of lung
fibroblast of lung	2	1	2	1	1
bronchial epithelial cell	1	2	1	1	1
lung microvascular endothelial cell	1	2	1	1	1
bronchus fibroblast of lung	1	1	1	1	1
epithelial cell of alveolus of lung	1	1	1	1	1

+ See 1 more...

Browsing the ENCODE portal

Different views

The screenshot shows the ENCODE Experiment Matrix page. A red box highlights the top left area where the number "127 results" is displayed above three navigation icons: a bar chart, a grid, and a line graph.

Experiment Matrix
Click or enter search terms to filter the experiments included in the matrix.
Enter search term(s)

ASSAY

Assay	Assay category	Target of assay	Date released	Available data
polyA RNA-seq	49	DNA binding	July, 2012	bam
small RNA-seq	26	Transcription	July, 2013	bigWig
total RNA-seq	14	DNA accessibility	May, 2016	fastq
RNA microarray	11	DNA methylation	April, 2011	tsv
RAMPAGE	10	Genotyping	February, 2012	gff

BIOSAMPLE

ASSAY

	polyA RNA-seq	small RNA-seq	total RNA-seq	RNA microarray	ChIP-seq	RNA-PET	microRNA-seq
cell line	585	3	15	3	1	1	1
IMR-90	2	3	2	1	3	3	1
NCH-H460	2	2	1	3			
AG04450	1	1	1	1	1		
W138		2					

tissue

	upper lobe of left lung	left lung	right lung	See all biosamples
	4	4	4	
	6			
	3	1	1	
	5			

primary cell

	fibroblast of lung	bronchial epithelial cell	lung microvascular endothelial cell	bronchus fibroblast of lung	epithelial cell of alveolus of lung	See 1 more...
	2	1	2	1	1	
		1	2			
			1	2		
				1	1	
					1	

Download **Visualize**

Browsing the ENCODE portal

Summary view



Browsing the ENCODE portal

Report view

ENCODE Data Encyclopedia Materials & Methods Help Search... 

Showing results 1 to 25 of 127

[Assay category](#) [DNA binding](#) 545 [Transcription](#) 127 [DNA accessibility](#) 76 [DNA methylation](#) 32 [Genotyping](#) 11 [+ See more...](#)

[Assay](#) [polyA RNA-seq](#) 49 [small RNA-seq](#) 26 [total RNA-seq](#) 14 [RNA microarray](#) 11 [RAMPAGE](#) 10 [+ See more...](#)

[Experiment status](#) [released](#) 127 [archived](#) 20 [revoked](#) 1

[Project](#) [ENCODE](#) 84 [GGR](#) 18 [Roadmap](#) 15 [ENCODE2-Mouse](#) 1

[RFA](#) [ENCODE2](#) 62 [ENCODE3](#) 31 [GGR](#) 18 [Roadmap](#) 15 [ENCODE2-Mouse](#) 1

[Genome assembly \(visualization\)](#) [GRCh38](#) 107 [hg19](#) 106

[Organism](#) [Homo sapiens](#) 127 [Mus musculus](#) 16

[Target of assay](#) [control](#) 1

[Biosample type](#) [cell line](#) 81 [tissue](#) 29 [primary cell](#) 17

[Organ](#) [blood](#) 585 [body fluid](#) 585 [liver](#) 337 [epithelium](#) 181 [skin of body](#) 154 [lung](#) 127 [connective tissue](#) 101 [musculature of body](#) 112 [brain](#) 80 [embryo](#) 68 [vasculature](#) 65 [intestine](#) 63 [limb](#) 61 [blood vessel](#) 56 [osteocyte](#) 55

ID	Accession	Assay Type	Assay Nickname	Target label	Target gene	Biosample summary	Biosample	Description
ENCSR525SH	ENCSR525SH	RNA-seq	polyA RNA-seq			A549 treated with 100 nM dexamethasone for 25 minutes	A549	mRNA-seq or A549 cell line treated with 1 nM dexamethaso for 25 mins.
ENCSR831FZM	ENCSR831FZM	RNA-seq	polyA RNA-seq			A549 treated with 100 nM dexamethasone for 20 minutes	A549	mRNA-seq or A549 cell line treated with 1 nM dexamethaso for 20 mina.
ENCSR964GKZ	ENCSR964GKZ	RNA-seq	polyA RNA-seq			A549 treated with 100 nM dexamethasone for 15 minutes	A549	mRNA-seq or A549 cell line treated with 1 nM dexamethaso for 15 mins.
ENCSR742VGF	ENCSR742VGF	RNA-seq	polyA RNA-seq			A549 treated with 100 nM dexamethasone for 10 minutes	A549	mRNA-seq or A549 cell line treated with 1 nM dexamethaso for 10 mins.
ENCSR482TZY	ENCSR482TZY	RNA-seq	polyA RNA-seq			A549 treated with 100 nM dexamethasone for 5 minutes	A549	mRNA-seq or A549 cell line treated with 1 nM dexamethaso for 5 mins.
ENCSR937WIG	ENCSR937WIG	RNA-seq	polyA RNA-seq			A549	A549	mRNA-seq or A549 cell line treated with 1 nM dexamethaso for 0 mins.



Browsing the ENCODE portal

Report view

ENCODE Data Encyclopedia Materials & Methods Help Search... 

Assay category
DNA binding 545
Transcription 127
DNA accessibility 76
DNA methylation 32
Genotyping 11
[+ See more...](#)

Showing results 1 to 25 of 127  

ID	Accession	Assay Type	Assay Nickname	Target label	Target gene	Biosample summary	Biosample	Description
ENCSR525SH	ENCSR525SH	RNA-seq	polyA RNA-seq			A549 treated with 100 nM dexamethasone for 25 minutes	A549	mRNA-seq or A549 cell line treated with 1 nM dexamethasone for 25 mins.
ENCSR831FZM	ENCSR831FZM	RNA-seq	polyA RNA-seq			A549 treated with 100 nM dexamethasone for 20 minutes	A549	mRNA-seq or A549 cell line treated with 1 nM dexamethasone for 20 mins.
ENCSR964GKZ	ENCSR964GKZ	RNA-seq	polyA RNA-seq			A549 treated with 100 nM dexamethasone for 15 minutes	A549	mRNA-seq or A549 cell line treated with 1 nM dexamethasone for 15 mins.
ENCSR742VGF	ENCSR742VGF	RNA-seq	polyA RNA-seq			A549 treated with 100 nM dexamethasone for 10 minutes	A549	mRNA-seq or A549 cell line treated with 1 nM dexamethasone for 10 mins.
ENCSR482TZY	ENCSR482TZY	RNA-seq	polyA RNA-seq			A549 treated with 100 nM dexamethasone for 5 minutes	A549	mRNA-seq or A549 cell line treated with 1 nM dexamethasone for 5 mins.
ENCSR937WIG	ENCSR937WIG	RNA-seq	polyA RNA-seq			A549	A549	mRNA-seq or A549 cell line treated with 1 nM dexamethasone for 0 mins.

Select columns to view 

Select all Select ID only Default sort 

ID Accession Assay Type
 Assay Nickname Target label Description
 Biosample summary Biosample Status
 Lab Project Technical replicate
 Biosample accession Biological replicate Life stage
 Linked Antibody Species Treatment
 Age Concentration Concentration units
 Term ID Duration units Synchronization
 Duration Post-synchronization time Replicates
 Post-synchronization time units Biosample type
 Submitter comment Alternate accessions
 Documents Internal tags
 External identifiers Date created
 Schema Version Grant
 Submitted by Target
 Lab aliases Supersedes
 Experiment classification Pipeline error message
 Additional data files Hub
 Assay type Month released
 Superseded by Contributing files
 Developmental slims Original files
 Revoked files Files
 Biosample synonyms Related series
 Assay objective
 Replication type
 System slims Assembly



Browsing the ENCODE portal

Report view

The screenshot shows the ENCODE portal's report view. At the top, there are navigation links: ENCODE, Data, Encyclopedia, Materials & Methods, Help, and a search bar. Below the header, a sidebar displays assay categories: DNA binding (545), Transcription (127), DNA accessibility (76), DNA methylation (32), and Genotyping (11). A 'Showing results 1 to 25 of 127' message is followed by a table with columns: ID, Accession, Assay Type, Assay Nickname, Target label, Target gene, Biosample summary, Biosample, and Description. The first row shows an entry for ENCSR525SH, RNA-seq, polyA RNA-seq, A549 treated with 100 nM dexamethasone for 25 minutes, A549, and mRNA-seq or A549 cell line treated with 1 nM dexamethasone for 25 mins. A red box highlights the 'Download TSV' button, which is overlaid on the table. To the left, a modal window titled 'Select columns to view' lists various data types with checkboxes. A red box highlights this modal. At the bottom of the modal are 'Cancel' and 'View selected columns' buttons.

Select columns to view

Default sort

Download TSV

ID	Accession	Assay Type	Assay Nickname	Target label	Target gene	Biosample summary	Biosample	Description
ENCSR525SH	ENCSR525SH	RNA-seq	polyA RNA-seq		A549 treated with 100 nM dexamethasone for 25 minutes	A549		mRNA-seq or A549 cell line treated with 1 nM dexamethasone for 25 mins.
ENCSR831FZM	ENCSR831FZM	RNA-seq	polyA RNA-seq		A549 treated with 100 nM dexamethasone for 20 minutes	A549		mRNA-seq or A549 cell line treated with 1 nM dexamethasone for 20 mins.
ENCSR964GKZ	ENCSR964GKZ	RNA-seq	polyA RNA-seq		A549 treated with 100 nM dexamethasone for 15 minutes	A549		mRNA-seq or A549 cell line treated with 1 nM dexamethasone for 15 mins.
ENCSR742VGF	ENCSR742VGF	RNA-seq	polyA RNA-seq		A549 treated with 100 nM dexamethasone for 10 minutes	A549		mRNA-seq or A549 cell line treated with 1 nM dexamethasone for 10 mins.
ENCSR482TZY	ENCSR482TZY	RNA-seq	polyA RNA-seq		A549 treated with 100 nM dexamethasone for 5 minutes	A549		mRNA-seq or A549 cell line treated with 1 nM dexamethasone for 5 mins.
ENCSR937WIG	ENCSR937WIG	RNA-seq	polyA RNA-seq		A549	A549		mRNA-seq or A549 cell line treated with 1 nM dexamethasone for 0 mins.

Cancel View selected columns

Browsing the ENCODE portal

ENCODE Data Encyclopedia Materials & Methods Help Search...

Showing 25 of 127 results

Assay category

Assay category	Count
DNA binding	545
Transcription	127
DNA accessibility	76
DNA methylation	32
Genotyping	11

+ See more...

Assay

Assay	Count
polyA RNA-seq	49
small RNA-seq	26
total RNA-seq	14
RNA microarray	11
RAMPAGE	10

+ See more...

Experiment status

Experiment status	Count
released	127
archived	20
revoked	1

Project

Project	Count
ENCODE	94
GGR	18
Roadmap	15

RFA

RFA	Count
ENCODER2	62
ENCODER3	31
GGR	18
Roadmap	15
ENCODER2-Mouse	1

Genome assembly (visualization)

Genome assembly (visualization)	Count
GRCh38	107
hg19	106

Organism

Organism	Count
Homo sapiens	127
Mus musculus	16

Target of assay

Target of assay	Count
control	1

Biosample type

Biosample type	Count
cell line	81
tissue	29
primary cell	17

Organ

Organ	Count
blood	585
body cavity fluid	585
liver	337
epithelium	181
skin of body	154
lung	127
connective tissue	121
musculature of body	112
brain	89
embryo	68
vasculature	65
intestine	63
limb	61

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 25 minutes

Lab: Tim Reddy, Duke
Project: GGR

Experiment ENCSR825VSH released

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 20 minutes

Lab: Tim Reddy, Duke
Project: GGR

Experiment ENCSR831FZM released

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 15 minutes

Lab: Tim Reddy, Duke
Project: GGR

Experiment ENCSR864GKZ released

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 10 minutes

Lab: Tim Reddy, Duke
Project: GGR

Experiment ENCSR42VGF released

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 5 minutes

Lab: Tim Reddy, Duke
Project: GGR

Experiment ENCSR482TZY released

RAMPAGE of upper lobe of left lung

Homo sapiens upper lobe of left lung female adult (51 year)

Lab: Thomas Gingeras, CSHL
Project: ENCODE

Experiment ENCSR037WIVC released

RAMPAGE of upper lobe of left lung

Homo sapiens upper lobe of left lung female adult (53 years)

Lab: Thomas Gingeras, CSHL
Project: ENCODE

Experiment ENCSR790PBX released

RAMPAGE of upper lobe of left lung

Homo sapiens upper lobe of left lung male adult (54 years)

Lab: Thomas Gingeras, CSHL
Project: ENCODE

Experiment ENCSR044LBM released

RAMPAGE of upper lobe of left lung

Homo sapiens upper lobe of left lung male adult (37 years)

Lab: Thomas Gingeras, CSHL
Project: ENCODE

Experiment ENCSR738HKG released

small RNA-seq of upper lobe of left lung

Homo sapiens upper lobe of left lung female adult (51 year)

Lab: Thomas Gingeras, CSHL
Project: ENCODE

Experiment ENCSR961FIG released

Search view



Browsing the ENCODE portal

Search view

ENCODE Data Encyclopedia Materials & Methods Help Search...

Showing 25 of 127 results

Assay category

DNA binding	545
Transcription	127
DNA accessibility	76
DNA methylation	32
Genotyping	11

+ See more...

Assay

polyA RNA-seq	49
small RNA-seq	26
total RNA-seq	14
RNA microarray	11
RAMPAGE	10

+ See more...

Experiment status

released	127
archived	20
revoked	1

Project

ENCODE	94
GGR	18
Roadmap	15

RFA

ENCODER2	62
ENCODER3	31
GGR	18
Roadmap	15
ENCODER2-Mouse	1

Genome assembly (visualization)

GRCh38	107
hg19	106

Organism

Homo sapiens	127
Mus musculus	16

Target of assay

control	1
---------	---

Biosample type

cell line	81
tissue	29
primary cell	17

Organ

blood	585
body cavity fluid	885
liver	337
epithelium	181
skin of body	154
lung	127
connective tissue	121
musculature of body	112
brain	89
embryo	68
vasculature	65
intestine	63
limb	61

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 5 minutes

Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 5 minutes

Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 5 minutes

Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 5 minutes

Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549

Homo sapiens A549

Lab: Tim Reddy, Duke
Project: GGR

RAMPAGE of upper lobe of left lung

Homo sapiens upper lobe of left lung female adult (51 year)

Lab: Thomas Gingeras, CSHL
Project: ENCODE

RAMPAGE of upper lobe of left lung

Homo sapiens upper lobe of left lung female adult (53 years)

Lab: Thomas Gingeras, CSHL
Project: ENCODE

RAMPAGE of upper lobe of left lung

Homo sapiens upper lobe of left lung male adult (54 years)

Lab: Thomas Gingeras, CSHL
Project: ENCODE

RAMPAGE of upper lobe of left lung

Homo sapiens upper lobe of left lung male adult (37 years)

Lab: Thomas Gingeras, CSHL
Project: ENCODE

small RNA-seq of upper lobe of left lung

Homo sapiens upper lobe of left lung female adult (51 year)

Experiment ENSR961FIG released

Stanford University

Visualizing data

Search view

ENCODE Data Encyclopedia Materials & Methods Help Search...

Showing 25 of 127 results

Clear Filters

Assay category

- DNA binding 545
- Transcription 127**
- DNA accessibility 76
- DNA methylation 32
- Genotyping 11

+ See more...

Assay

- polyA RNA-seq 49
- small RNA-seq 26
- total RNA-seq 14
- RNA microarray 11
- RAMPAGE 10

+ See more...

Experiment status

- released 127**
- archived 20
- revoked 1

Project

- ENCODE 94
- GGR 18
- Roadmap 15

RFA

- ENCODE2 62
- ENCODE3 31
- GGR 18
- Roadmap 15
- ENCODE2-Mouse 1

Genome assembly (visualization)

- GRCh38 107
- hg19 106

Organism

- Homo sapiens 127**
- Mus musculus 16

Target of assay

- control 1

Biosample type

- cell line 81
- tissue 29
- primary cell 17

Organ

- blood 585
- body fluid 585
- liver 337
- epithelium 181
- skin of body 154
- lung 127**
- connective tissue 121
- musculature of body 112
- brain 89
- embryo 68
- vasculature 65
- intestine 63
- limb 61

Clear Filters

View All Download Filter to 100 to visualize

(

Experiment
Homo sapiens A549 treated with 100 nM dexamethasone for 25 minutes
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 20 minutes
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 15 minutes
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 10 minutes
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 5 minutes
Lab: Tim Reddy, Duke
Project: GGR

RAMPAGE of upper lobe of left lung
Homo sapiens upper lobe of left lung female adult (51 year)
Lab: Thomas Gingeras, CSHL
Project: ENCODE

RAMPAGE of upper lobe of left lung
Homo sapiens upper lobe of left lung female adult (53 years)
Lab: Thomas Gingeras, CSHL
Project: ENCODE

RAMPAGE of upper lobe of left lung
Homo sapiens upper lobe of left lung male adult (54 years)
Lab: Thomas Gingeras, CSHL
Project: ENCODE

RAMPAGE of upper lobe of left lung
Homo sapiens upper lobe of left lung male adult (37 years)
Lab: Thomas Gingeras, CSHL
Project: ENCODE

small RNA-seq of upper lobe of left lung
Homo sapiens upper lobe of left lung female adult (51 year)

Filter to 100 to visualize



Visualizing data

Filter further to
≤100 experiments

Assay

polyA RNA-seq 49

small RNA-seq 26

total RNA-seq 14

RNA microarray 11

RAMPAGE 10

+ See more...

ENCODE Data Encyclopedia Materials & Methods Help Search... 

Showing 25 of 49 results

Assay category: **Transcription** 49

Assay: **polyA RNA-seq** 49

- small RNA-seq 26
- total RNA-seq 14
- RNA microarray 11
- RAMPAGE 10

+ See more...

Experiment status: **released** 49

- revoked** 1

Project: **ENCODE** 18

- GGR** 18
- Roadmap** 13

RFA: **GGR** 18

- ENCODE2** 15
- Roadmap** 13
- ENCODE3** 2
- ENCODE2-Mouse** 1

Genome assembly (visualization): **GRCh38** 46

- hg19** 28

Organism: **Homo sapiens** 49

- Mus musculus** 8

Target of assay: **control** 1

Biosample type: **cell line** 33

- tissue** 14
- primary cell** 2

Organ: **lung** 49

- blood** 45
- body fluid** 45
- musculature of body** 44
- embryo** 29

+ See more...

Life stage: **adult** 30

- embryonic** 15
- unknown** 3
- child** 1

Biosample treatment: **dexamethasone** 21

- ethanol** 1

Available data: **bam** 49

- bamtaric** 1

Clear Filters 

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 25 minutes
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 20 minutes
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 15 minutes
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 10 minutes
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 5 minutes
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 12 hours
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 10 hours
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 8 hours
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 7 hours
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 6 hours
Lab: Tim Reddy, Duke
Project: GGR

Experiment ENCSR825HSN  released

Experiment ENCSR831FZ  released

Experiment ENCSR864GKZ  released

Experiment ENCSR424VGF  released

Experiment ENCSR482TZV  released

Experiment ENCSR507WVC  released

Experiment ENCSR154TDP  released

Experiment ENCSR24PTG  released

Experiment ENCSR546PPQ  released

Experiment ENCSR858TFN  released

Experiment ENCSR265VBV  released

Visualize 

Visualizing data

Also available on matrix view



BIOSAMPLE

ASSAY

49 results

Clear Filters

polyA RNA-seq

cell line	count
A549	27
IMR-90	3
NCI-H460	2
AG04450	1

tissue	count
left lung	6
right lung	5
lung	3

primary cell	count
fibroblast of lung	2

Download **Visualize**

ENCODE Data Encyclopedia Materials & Methods Help Search...

Showing 25 of 49 results

Assay category

Clear Filters

polyA RNA-seq

Assay

polyA RNA-seq

Sample type

Experiment status

Project

Species

Genome assembly (visualization)

Organism

Cell type

Sample type

Sample source

Sample stage

Sample treatment

Available data

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 25 minutes

Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 20 minutes

Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 15 minutes

Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 10 minutes

Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 5 minutes

Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 12 hours

Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 10 hours

Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 8 hours

Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 7 hours

Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 6 hours

Lab: Tim Reddy, Duke
Project: GGR

Experiment

ENCSR825HSH released

Experiment

ENCSR831FZV released

Experiment

ENCSR864GKZ released

Experiment

ENCSR424VGF released

Experiment

ENCSR482TZV released

Experiment

ENCSR037WVC released

Experiment

ENCSR154TDP released

Experiment

ENCSR24PTG released

Experiment

ENCSR546PPQ released

Experiment

ENCSR858TFN released

Experiment

ENCSR265VBV released

Visualize

Visualizing data

The screenshot shows the ENCODE visualization browser interface. At the top, there's a navigation bar with links to ENCODE, Data, Encyclopedia, Materials & Methods, Help, and a search bar. Below the navigation bar, a header indicates "Showing 25 of 49 results" for the "Assay category: Transcription". There are buttons for Clear Filters, View All, Download, and Visualize (which is highlighted with a red border). The main content area displays a list of experiments, each with a title, description, and status (Experiment ENCSR025ISH released). The experiments are listed in descending order of time: 25 minutes, 20 minutes, 15 minutes, 10 minutes, 5 minutes, 12 hours, 10 hours, and 8 hours. Each experiment entry includes the sample name (seq of A549), treatment (A549 treated with 100 nM dexamethasone), time point, lab (Tim Reddy, Duke), and project (GGR). On the left side of the main content area, there's a sidebar titled "Open visualization browser" containing sections for GRCh38 (UCSC and Ensembl buttons) and hg19 (UCSC button). At the bottom left, there's a table with columns for "Available data" (bam, fastq), "Biosample treatment" (dexamethasone, ethanol), and "Lab" (adult, embryonic, unknown, child). A "Close" button is located at the bottom center of the sidebar.

Visualizing data

Open visualization browser

Assembly Visualize with browser...

GRCh38:

UCSC

Ensembl

hg19:

UCSC

Close

adult
embryonic
unknown
child

Biosample treatment
dexamethasone
ethanol

Available data
bam
bam.gz

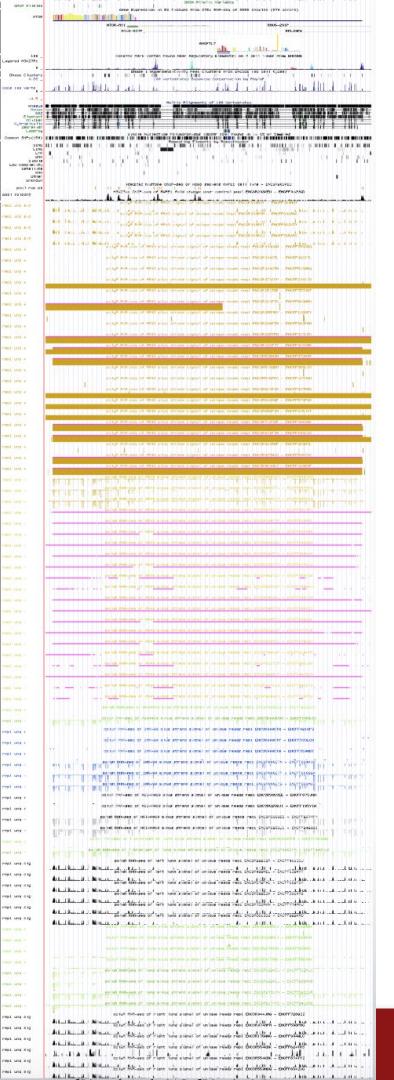
- seq of A549
A549 treated with 100 nM dexamethasone for 25 minutes
Lab: Duke
- seq of A549
A549 treated with 100 nM dexamethasone for 20 minutes
Lab: Duke
- seq of A549
A549 treated with 100 nM dexamethasone for 15 minutes
Lab: Duke
- seq of A549
A549 treated with 100 nM dexamethasone for 10 minutes
Lab: Duke
- seq of A549
A549 treated with 100 nM dexamethasone for 5 minutes
Lab: Duke
- seq of A549
A549
Lab: Duke
- seq of A549
A549 treated with 100 nM dexamethasone for 12 hours
Lab: Duke
- seq of A549
A549 treated with 100 nM dexamethasone for 10 hours
Lab: Duke
- seq of A549
A549 treated with 100 nM dexamethasone for 8 hours
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 7 hours
Lab: Tim Reddy, Duke
Project: GGR

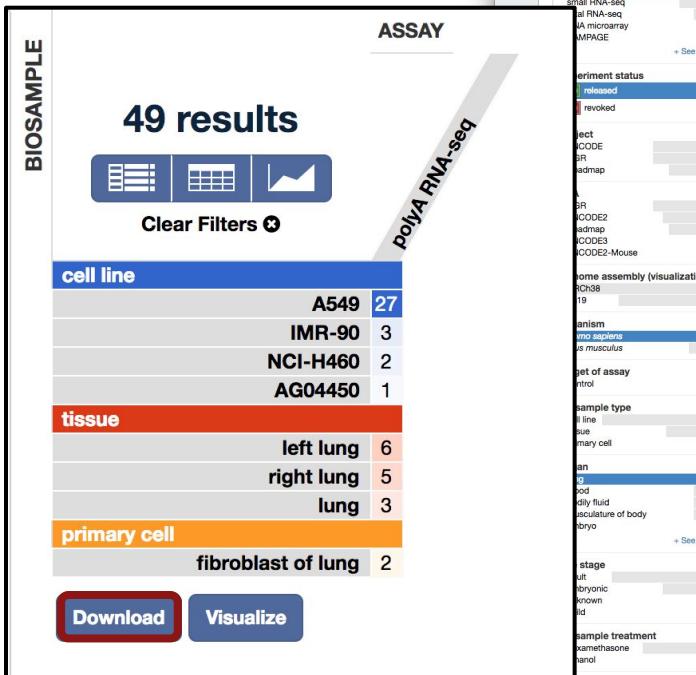
polyA RNA-seq of A549

Homo sapiens A549 treated with 100 nM dexamethasone for 6 hours
Lab: Tim Reddy, Duke
Project: GGR



Batch file download

Also available on matrix view



Showing 25 of 49 results

Assay category

Assay

Experiment status

Project

Sample type

Sample treatment

Available data

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 25 minutes
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 20 minutes
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 15 minutes
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 10 minutes
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 5 minutes
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 12 hours
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 10 hours
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 8 hours
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 7 hours
Lab: Tim Reddy, Duke
Project: GGR

polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 6 hours
Lab: Tim Reddy, Duke
Project: GGR

Download

No exp limit!

Batch file download



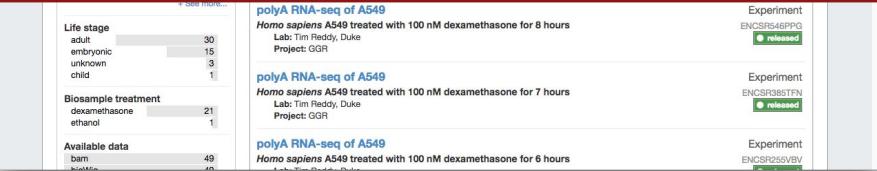
Using batch download

Click the "Download" button below to download a "files.txt" file that contains a list of URLs to a file containing all the experimental metadata and links to download the file. The first line of the file will always be the URL to download the metadata file. Further description of the contents of the metadata file are described in the [Batch Download help doc](#).

The "files.txt" file can be copied to any server.
The following command using cURL can be used to download all the files in the list:

```
xargs -n 1 curl -O -L < files.txt
```

Close **Download**



polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 8 hours
Lab: Tim Reddy, Duke
Project: GGR

Experiment
ENCSR846PPQ
● released

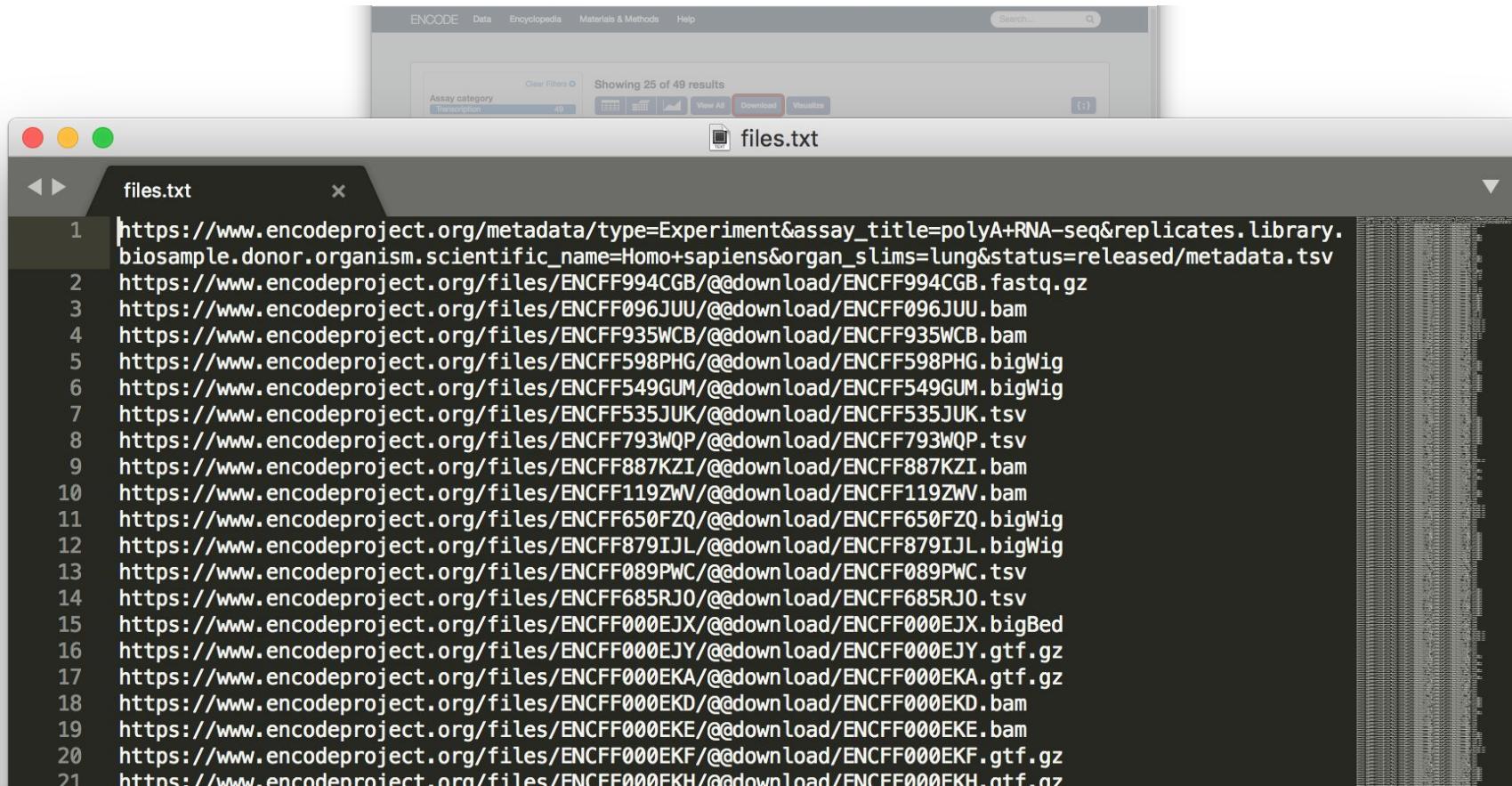
polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 7 hours
Lab: Tim Reddy, Duke
Project: GGR

Experiment
ENCSR885TFN
● released

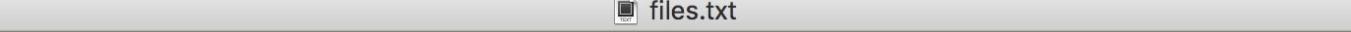
polyA RNA-seq of A549
Homo sapiens A549 treated with 100 nM dexamethasone for 6 hours

Experiment
ENCSR265VBV
● released

Batch file download



Batch file download



```
files.txt
```

```
1 https://www.encodeproject.org/metadata?type=Experiment&assay_title=polyA+RNA-seq&replicates.library_biosample.donor.organism.scientific_name=Homo+sapiens&organ_slims=lung&status=released/metadata.tsv
2 https://www.encodeproject.org/files/ENCFF994CGB/@download/ENCFF994CGB.fastq.gz
3 https://www.encodeproject.org/files/ENCFF096JUU/@download/ENCFF096JUU.bam
4 https://www.encodeproject.org/files/ENCFF935WCB/@download/ENCFF935WCB.bam
5 https://www.encodeproject.org/files/ENCFF598PHG/@download/ENCFF598PHG.bigWig
6 https://www.encodeproject.org/files/ENCFF102GJM/@download/ENCFF102GJM.bam
```

metadata.tsv

one line for each data file in files.txt
file format, output type, read info, assembly
also assay, biosample, library specifics

Batch file download

To download all files, run command...

```
xargs -n 1 curl -O -L < files.txt
```

Batch file download

To download all files, run command...

```
xargs -n 1 curl -O -L < files.txt
```

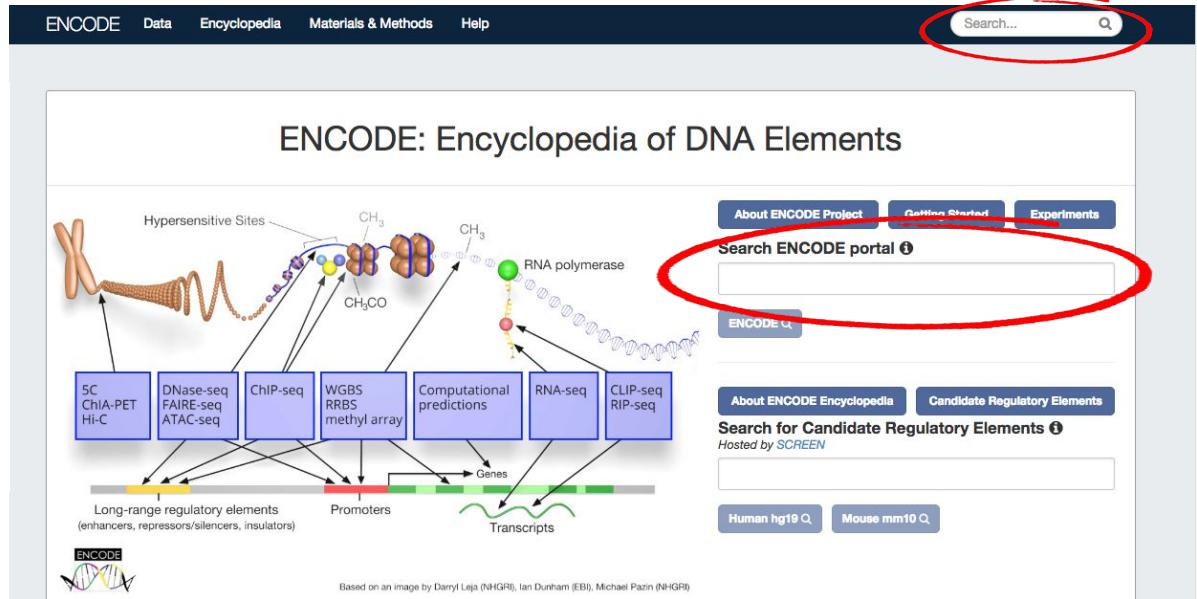
Or copy/paste metadata.tsv link into browser
filter metadata.tsv,
collect download links (column AK in metadata.tsv),
put in new file to run command

```
xargs -n 1 curl -O -L < filtered_files.txt
```

Searching the ENCODE portal

Keyword Search

“liver”
“CTCF”
“gtex”
•••



Searches the whole portal
(not just Experiments)

Searching the ENCODE portal

Region search

The screenshot shows the ENCODE Encyclopedia of DNA Elements portal. A red arrow points to the "Search by region" option in the top navigation menu. The main content area features a diagram illustrating the relationship between different genomic assays and regulatory elements. Assays shown include 5C ChIA-PET Hi-C, DNase-seq FAIRE-seq ATAC-seq, ChIP-seq, WGBS RRBS methyl array, Computational predictions, RNA-seq, and CLIP-seq RIP-seq. These assays map to Long-range regulatory elements (enhancers, repressors/silencers, insulators), Promoters, Genes, and Transcripts. The diagram also shows epigenetic marks like CH₃ and CH₃CO. The portal includes sections for About ENCODE Project, Getting Started, Experiments, and Candidate Regulatory Elements, along with search bars for ENCODE and SCREEN.

Browsing the ENCODE portal

The screenshot shows the ENCODE Encyclopedia of DNA Elements portal. At the top, there's a navigation bar with links for ENCODE, Data, Encyclopedia, Materials & Methods, and Help. A search bar is also at the top. A dropdown menu from the Encyclopedia link includes options like Matrix, Search, Summary, Search by region (which is highlighted), Reference epigenomes, and Publications. The main content area features a diagram of a chromosome with various regulatory elements and their interactions. Labels include 5C, ChIA-PET, Hi-C, DNase-seq, FAIRE-seq, ATAC-seq, ChIP-seq, WGBS, RRBS, methyl array, Computational predictions, RNA-seq, Long-range regulatory elements (enhancers, repressors/silencers, insulators), Promoters, Genes, and Transcripts. A note at the bottom says "Based on an image by Daryl Leja (NHGRI), Ian Dunham (EBI), Michael...".

Region search

The screenshot shows the ENCODE Region search portal. It has a similar top navigation bar. The main feature is a search input field with placeholder text "Enter any one of human Gene name, Symbol, Synonyms, Gene ID, HGNC ID, coordinates, rsid, Ensemble ID". To the right of the input field is a "GRCh38" button with a dropdown arrow. Below the input field, a message says "No annotations found". At the bottom, there are buttons for "Human hg19 Q" and "Mouse mm10 Q".

Browsing the ENCODE portal

ENCODE Data Encyclopedia Materials & Methods Help

Search...

Matrix
Search
Summary
Search by region
Reference epigenomes
Publications

Encyclopedia of DNA Elements

SC ChIA-PET Hi-C
DNase-seq FAIRE-seq ATAC-seq
ChIP-seq WGBS RRBS methyl array
Computational predictions RNA-seq

Long-range regulatory elements (enhancers, repressors/silencers, insulators)
Promoters
Genes
Transcripts

Based on an image by Daryl Leja (NHGRI), Ian Dunham (EBI), Michael Green (UCL)

Region search

ENCODE Data Encyclopedia Materials & Methods Help

Search...

GRCh38

Region search

Enter any one of human Gene name, Symbol, Synonyms, Gene ID, HGNC ID, coordinates, rsid, Ensemble ID

Sox

"SOXL (homo sapiens)"
"SOXN (homo sapiens)"
"Sox-13 (homo sapiens)"
"SOX1 (homo sapiens)"
"SOX10 (homo sapiens)"
"SOX11 (homo sapiens)"
"SOX12 (homo sapiens)"
"SOX14 (homo sapiens)"
"SOX17 (homo sapiens)"
"SOX18 (homo sapiens)"

Search

Browsing the ENCODE portal

The screenshot shows the ENCODE Encyclopedia of DNA Elements page. At the top, there's a navigation bar with links for ENCODE, Data, Encyclopedia, Materials & Methods, and Help. A search bar is also at the top. Below the navigation, there's a sidebar with links for Matrix, Search, Summary, Search by region, Reference epigenomes, and Publications. The main content area features a diagram of a chromosome with various regulatory elements like SC, ChIA-PET, Hi-C, DNase-seq, FAIRE-seq, ATAC-seq, ChIP-seq, WGBS, RRBS, methyl array, Computational predictions, and RNA-seq. It shows how these elements interact with promoters, genes, and transcripts. A success message "Success" is displayed below the search bar.

Region search

Enter any one of human Gene name, Symbol, Synonyms, Gene ID, HGNC ID, coordinates, rsid, Ensemble ID

"Sox-13 (homo sapiens)"

Success

Searched coordinates: chr1:204073115-204127743

Assay

Assay	Count
ChIP-seq	695
DNase-seq	668
eCLIP	104

Biosample term

Biosample term	Count
HepG2	263
HEK293	105
MCF-7	84
K562	65
A549	41

Target

Target	Count
CTCF	117
POLR2AphosphoS5	11
RAD21	11
JUND	9
MAFK	9

Organism

Organism	Count
<i>Homo sapiens</i>	1467

Organ

Organ	Count
liver	300
kidney	196
blood	147
body fluid	147
mammary gland	109

Showing 25 of 1467

[View All](#) [Filter to 100 to visualize](#)

ChIP-seq of K562
Homo sapiens K562
Target: REST
Lab: Michael Snyder, Stanford
Project: ENCODE

eCLIP of HepG2
Homo sapiens HepG2
Target: NOLC1
Lab: Gene Yeo, UCSD
Project: ENCODE

ChIP-seq of A549
Homo sapiens A549 treated with 0.02% ethanol for 1 hour
Target: FOSL2
Lab: Richard Myers, HAIB
Project: ENCODE

eCLIP of HepG2
Homo sapiens HepG2
Target: LIN28B
Lab: Gene Yeo, UCSD
Project: ENCODE

Programmatic access

Tutorials

The screenshot shows the ENCODE Encyclopedia page. At the top, there is a navigation bar with links for ENCODE, Data, Encyclopedia, Materials & Methods, Help, and a search bar. A red arrow points to the 'Help' menu, which is currently open, displaying a list of options: Getting started, REST API (which is highlighted in blue), Project overview, Tutorials, News, Acknowledgements, and Contact. Below the navigation bar, the main content area features the text "ENCODE: Encyclopedia Elements" and a small molecular diagram illustrating hypersensitive sites and methyl groups (CH_3). At the bottom right of the content area, there are two buttons: "About ENCODE Project" and "Getting Started".

ENCODE DCC

encode-help@lists.stanford.edu
@EncodeDCC
<https://github.com/ENCODE-DCC>



Mike

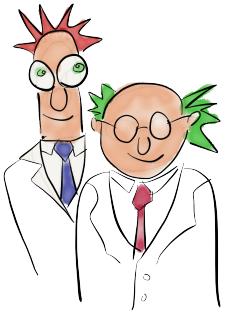


Software

ASHG posters

- 414 RegulomeDB
- 1510 ENCODE portal
- 1598 ENCODE pipelines
- 1987 Roadmap/Reference Epigenomes

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