UCSC data hubs

How to use them ? 1.10.2013 Go to UCSC server – European mirror here http://genome-euro.ucsc.edu/

When clicking that, you should see following :



Mouse (Mus musculus) Geno	me Browse	er Gatewa	av			
, , , , , , , , , , , , , , , , , , ,			The LICSC Genome B	owser was created by the Genome Bioinforr	matics Group of LIC Santa Cruz	
			Software Copyr	ight (c) The Regents of the University of Cali	fornia. All rights reserved.	
	group	genome	assembly	position	search term	
	Mammal 💌	Mouse 💌	July 2007 (NCBI37/mm9)	chr11:32,144,213-32,192,922	Nprl3	submit

2) Press "submit"

UCSC Genome Bioinformatics

Genomes - Blat - Tables - Gene Sorter - PCR - VisiGene - Session - FAQ - Help

3) Now, go BACK to the Genomes – where you just were !

Mouse (<i>Mus musculus</i>) Genome Browser Gateway										
The UCSC Genome Browser was created by the <u>Genome Bioinformatics Group of UC Santa Cruz</u> . Software Copyright (c) The Regents of the University of California. All rights reserved.										
group genome assembly position search term										
Mammal V Mouse V July 2007 (NCBI37/mm9) V chr11:32,132,419-32,167,614 enter position, gene symbol or search terms	submit									
Click here to reset the browser user interface settings to their defaults.										
track search add custom tracks track hubs configure tracks and display										

4) Click "track hubs" to add a hub !

Â	Genomes	Genome Browser	Tools	Mirrors	Downloads	My Data	About Us	Help
Track I	Data Hubs							
Track da import ti <u>User's (</u>	ata hubs are co he hub will show Guide.	ollections of tracks fro wup as a group of tra	om outside acks with it	of UCSC th s own blue b	at can be import par and label unc	ted into the Ge lerneath the m	enome Browse ain browser g	r. To import a public hub check the box in the list below. After raphic, and in the configure page. For more information, see the
NOTE:	Because Tra	ck Hubs are create	d and mai	ntained by	external sourc	es, UCSC is i	not responsil	ble for their content.
Pu	blic Hubs	My Hubs						
UR	L:					A	dd Hub	
				No Unlis	sted Track Hu	bs 1		
Use Se	lected Hubs	Contact <u>genome@</u>	soe.ucsc.ed	<u>du</u> to add a p	public hub.			

5) In here, copy+paste a hub address !

http://sara.molbiol.ox.ac.uk/public/username/..../hub.txt

🌱 🏫 Genomes Genome Browser Tools Mirrors Downloads My Data About Us Help

Track Data Hubs

Track data hubs are collections of tracks from outside of UCSC that can be imported into the Genome Browser. To import a public hub check the box in the list below. After import the hub will show up as a group of tracks with its own blue bar and label underneath the main browser graphic, and in the configure page. For more information, see the <u>User's Guide</u>.

NOTE: Because Track Hubs are created and maintained by external sources, UCSC is not responsible for their content.

Public Hubs My Hubs	
URL: <td></td>	
6) Click "Add Hub"	

Â	Genomes	Genome Browser	Tools	Mirrors	Downloads	My Data	About Us	Help
Track D	ata Hubs							
Track da	ta hube aro co	lloctions of tracks fro	m outcido	of LICSC the	at can be import	od into the G	nomo Browco	r. To import a public hub chock the bay in the list below. After import the hub will chow up as a group of tracks

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NOTE: Because Track Hubs are created and maintained by external sources, UCSC is not responsible for their content.

Public I	Hubs	My Hubs				
URL:					Add Hub	
Display	Hub Name	Description	Assemblies	URL		Disconnect
V	Ter119 MM9 : DNaseI, histones	Ter119 mm9 mapped data : DNaseI and Histone Markers - mostly C57bl6, but also Mixed Strain (MS)	mm9	http://sara.molbiol.ox.ac.uk/	hub.txt	x
Use Selected	Hubs	Contact genome@	<u>Dsoe.ucsc.edu</u> to	add a public hub.		







8) All the tracks of the hub show in standard UCSC way below the visualisation. Just click and play with them like you would have normal UCSC tracks !

 10) Some hubs may have additional track information and options to change the visualisation style , coded into the hub
 → Right click any track in the graph area !



Change visualisation style, check sample details

→ Right click any track in the graph area !



Ter119 RNA tracks Track Settings

You can change the

track visualisation :

Ter119 C57bl6 (NanoCage, PAM, PAP), and Ter119

Maximum display mode: full	▼ Submit	Cancel R	<u>eset to de</u>	<u>efaults</u>						
Select view (<u>help</u>):										
BigWig tracks full Annotation tracks (BigBed) dense										
Select subtracks by experiment and strand and rna type:										
+ - All	NanoCage	NanoCage	PAM	PAM		Nascent	Nascent			
Experiment and strand	forward	reverse	forward	reverse	PAP	forward	reverse			
RNA type	+ -	+ -	+ -	+ -	+ -	+ -	+ -			
PolyA plus 🛨 =										
PolyA minus + -										
Total RNA 💌 -										
Listauktraka, Carbonalastadhizikla, Carbonalastad)										
List subtracks. O only selected			LO SCICCIC	.u)						
View ¹¹ Experiment and strand ¹² RNA type ¹³ Track Name ¹⁴										
full BigWig tracks Appotation track	N (RigRod)	NanoCage forward Poly/				er119+C5	7bl6 - Nano			
Minotation track	s (Digbeu) i	vanocage io	waru	r OlyA	tininus i	erria+05	roio - Nano			



 Details of the bioinformatics of the sample

14) To see which hubs you have loaded ...

Â	Genomes	Genome Browser	Tools	Mirrors	Downloads	My Data	About Us	Help
						Sessions		
						Track Hut	Track Hubs	
						Custom T	racks	

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	URL:					Add Hub		
	Display	Hub Name	Description	Assemblies	URL			Disconnect
	X	Ter119 MM9 : DNaseI, histones	Ter119 mm9 mapped data : DNaseI and Histone Markers - mostly C57bl6, but also Mixed Strain (MS)	mm9	http://sara.molbiol.ox.ac.uk	ıbs/SHA	/hub.txt	×
U	Jse Selected I	Hubs	Contact <u>genome@</u>	<u>ðsoe.ucsc.edu</u> to	add a public hub.			/
ل م	o hu	h						7

Hides the hub

Removes the hub

13) You can use simultaneously many hubs, if you wish !

Public H	lubs M	ly Hubs			
URL:				Add Hub	
Display	Hub Name	Description	Assemblies	URL	Disconnect
V	Ter119 MM9 : DNaseI, histones	Ter119 mm9 mapped data : DNaseI and Histone Markers - mostly C57bl6, but also Mixed Strain (MS)	mm9	http://sara.molbiol.ox.ac.uk/public/	x
V	Human genome 19	Human genome 19, our Oxford- generaged data	hg19	http://sara.molbiol.ox.ac.uk/planetary //hub.txt	x
V	Ter119 mm9 - RNA sequencing	Ter119 mm9 mapped data - various RNA sequencing tracks. Mainly C57bl6, but also Mixed Strain (MS)	mm9	http://sara.molbiol.ox.ac.uk/p/hub.txt	X

UCSC will automatically select for visualisation only the hubs having the genome you selected in the "Genome" tab