refTSS: A reference dataset for human and mouse transcription start sites

User manual

About refTSS

- Transcription starts at genomic positions called transcription start sites (TSSs), producing RNAs, and is mainly regulated by genomic elements and transcription factors binding around these TSSs.
- refTSS is a comprehensive reference set that integrates all known TSSs. refTSS is a reference dataset of transcription start sites (refTSS) for the human and mouse genomes.
- The refTSS dataset consists of genomic coordinates of TSS peaks and their gene annotations.

The content of refTSS user manual

refTSS web interface was built using semantic Wikimedia a free, open-source extension to MediaWiki *.

The user manual consists of the following:

1- Overview of the main page (landing page).

- 1-1 The data files
- 1-2 refTSS UCSC genome browser track hub
- 1-3 Contact information and support

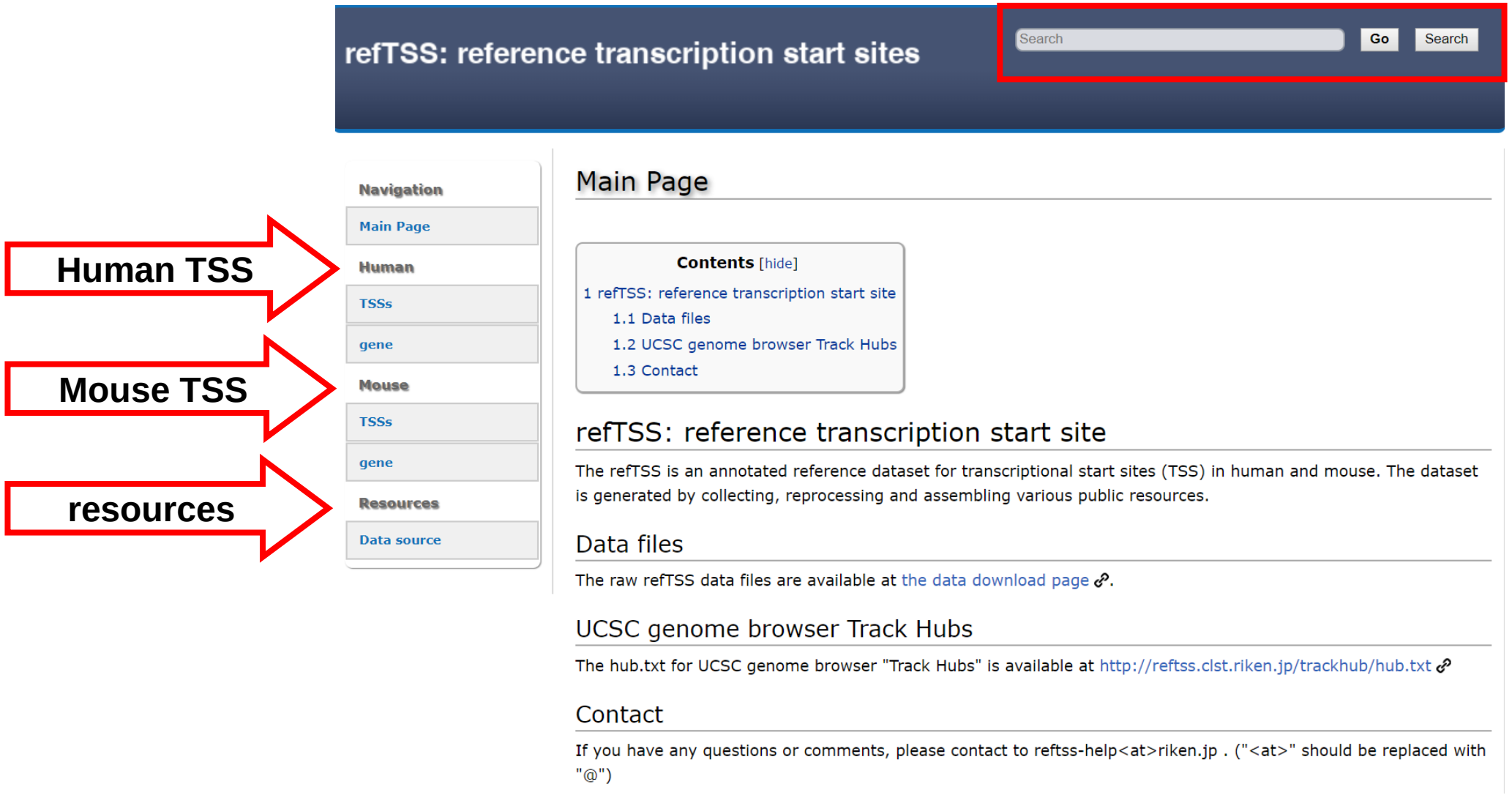
2- The human TSS sub-menu (this is identical to the mouse)

- 2-1 TSS query form
- 2-2 Entrez gene query form human

3- The data sources for download

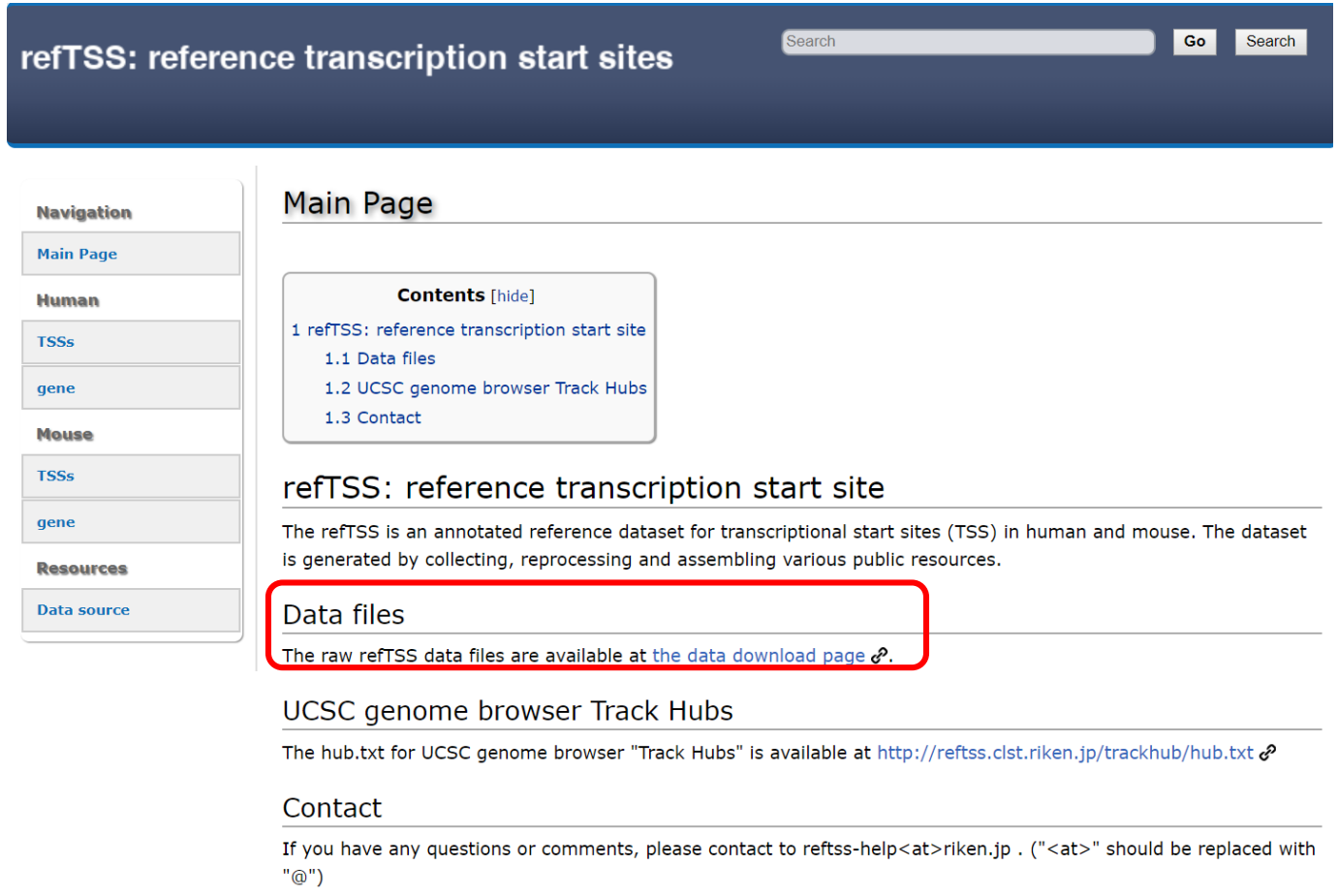
* https://www.semantic-mediawiki.org/wiki/Semantic_MediaWiki

refTSS web interface: main page



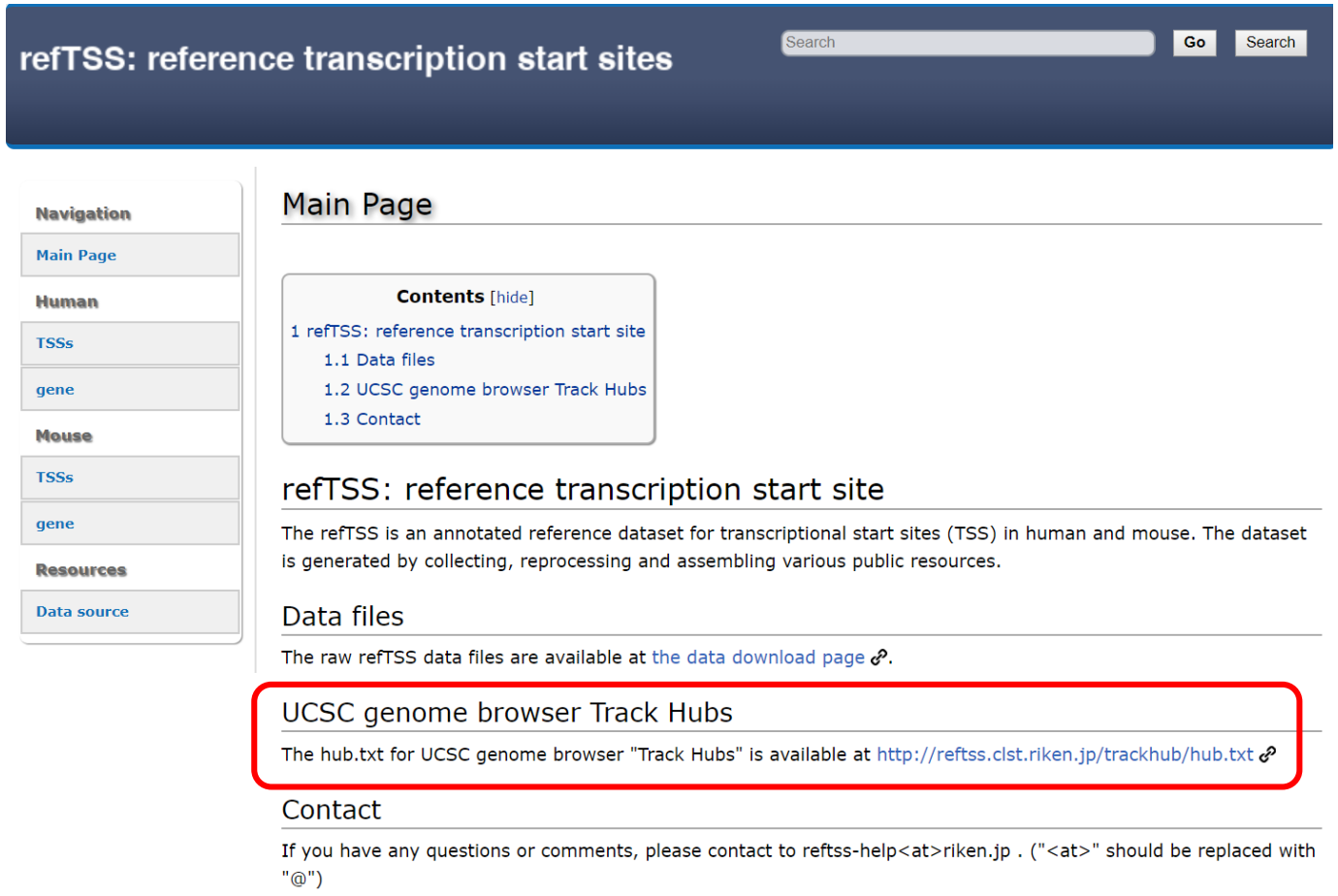
Data files

- The data files provide links to the latest version of refTSS and old versions.

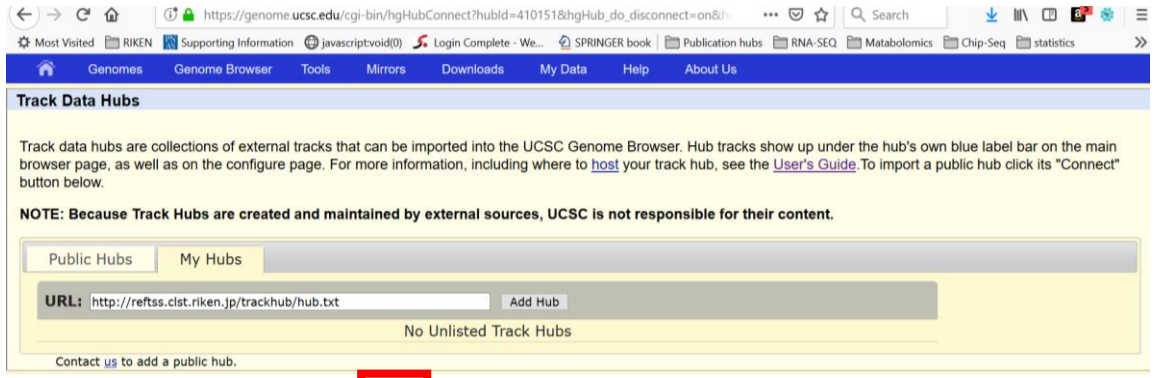


UCSC genome browser track hub

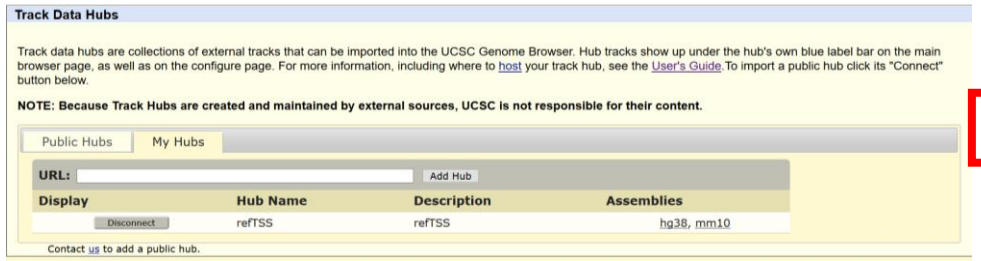
- The UCSC genome browser track hub enable the user to browse refTSS track hub on UCSC genome browser.
- Hub.txt files is located under http://reftss.clst.riken.jp/trackhub/hub.txt
- User paste the hub.txt file ulr



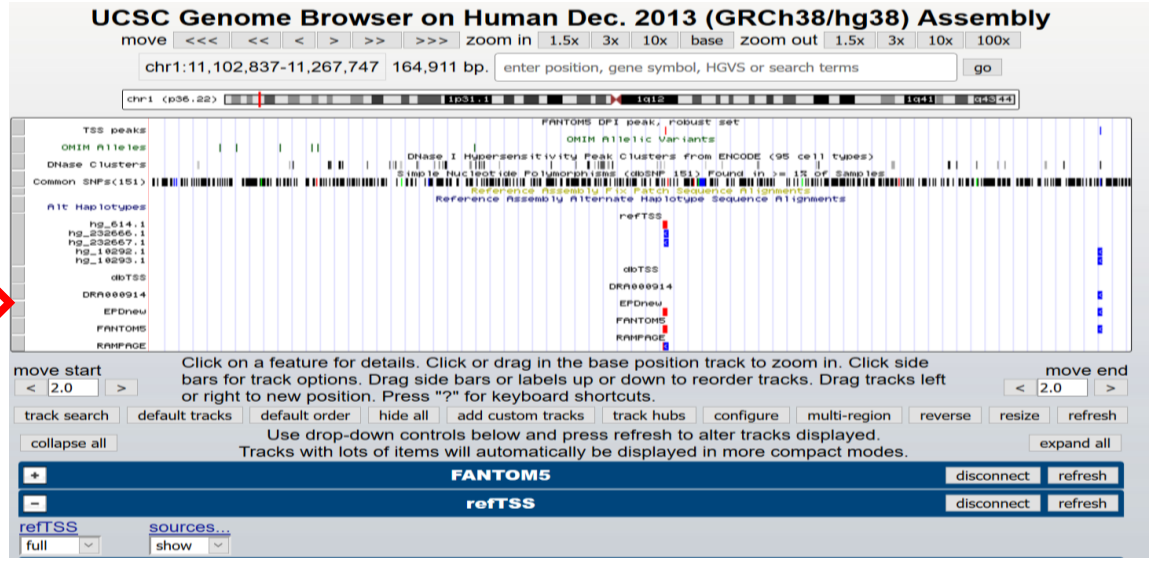
Display refTSS UCSC track hub



Paste hub.txt file url



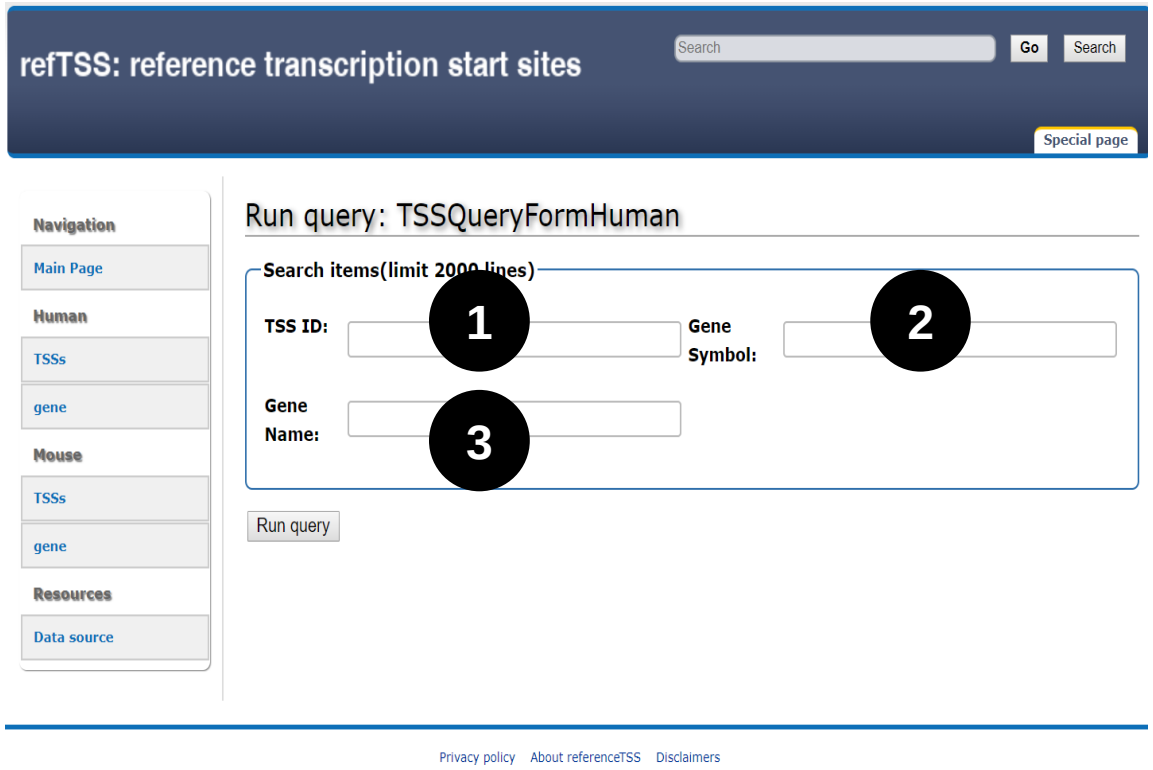
Add the hub



refTSS track hub will be added

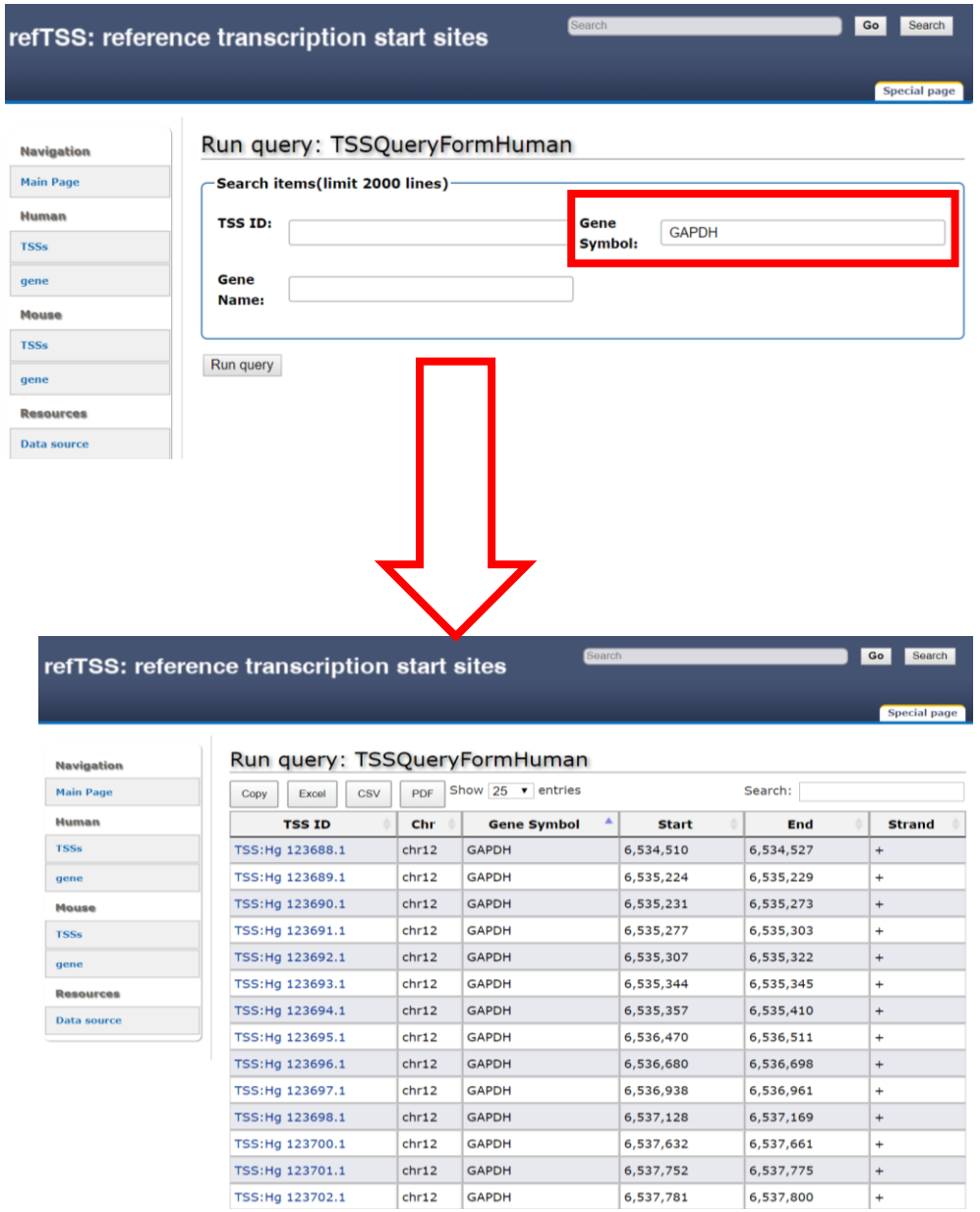
The TSS query form for human

- For each genome (human and mouse), the system provide two interface, [1] TSS query menu and [2] Gene query menu.
- The TSS query menu enable the user to search for TSS by any of the following argument:
- 1 TSS ID, 2 Gene symbol and 3 Gene name



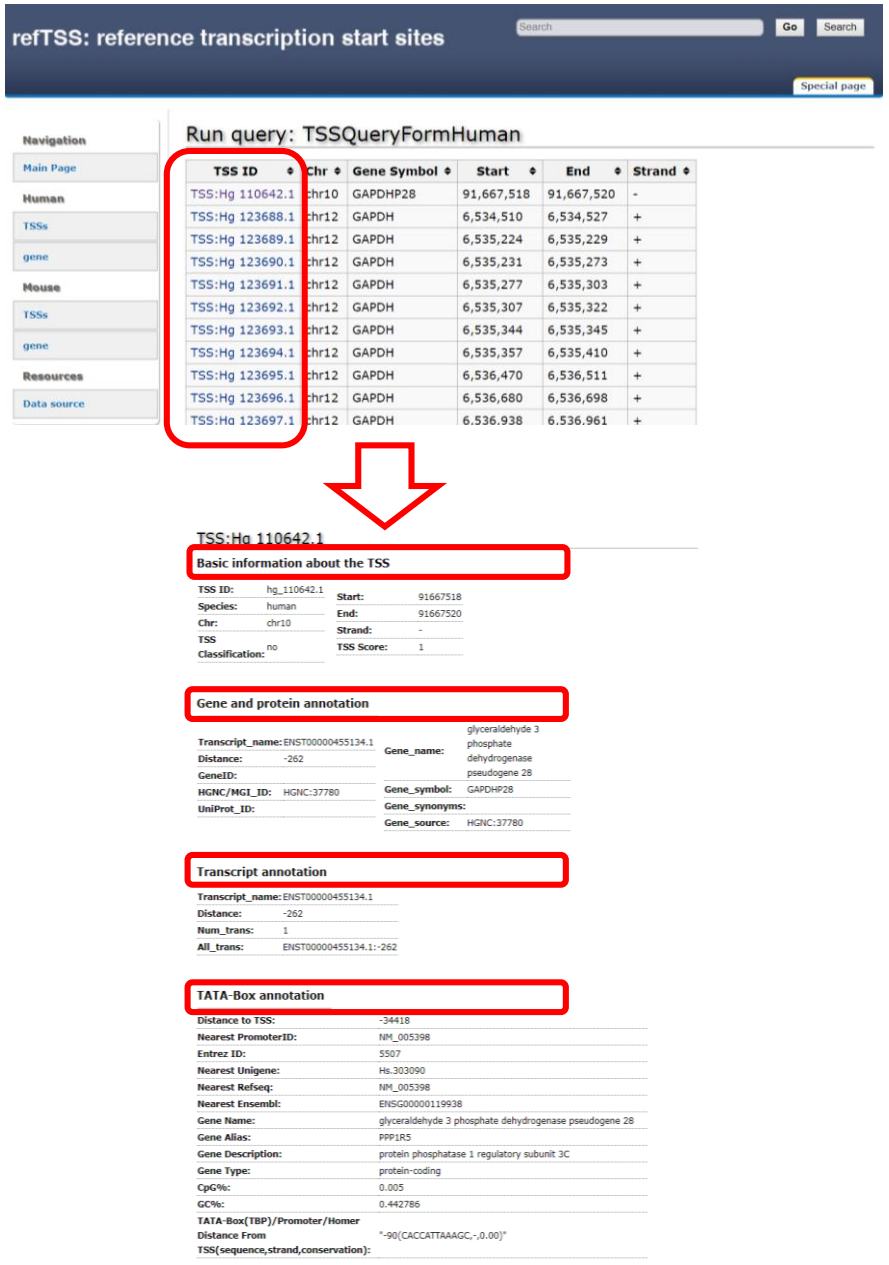
Search by gene symbol

- Search for Gapdh gene will retrieve all TSS, that found to be associated with Gapdh.
- Alternatively, use can search by gene Name



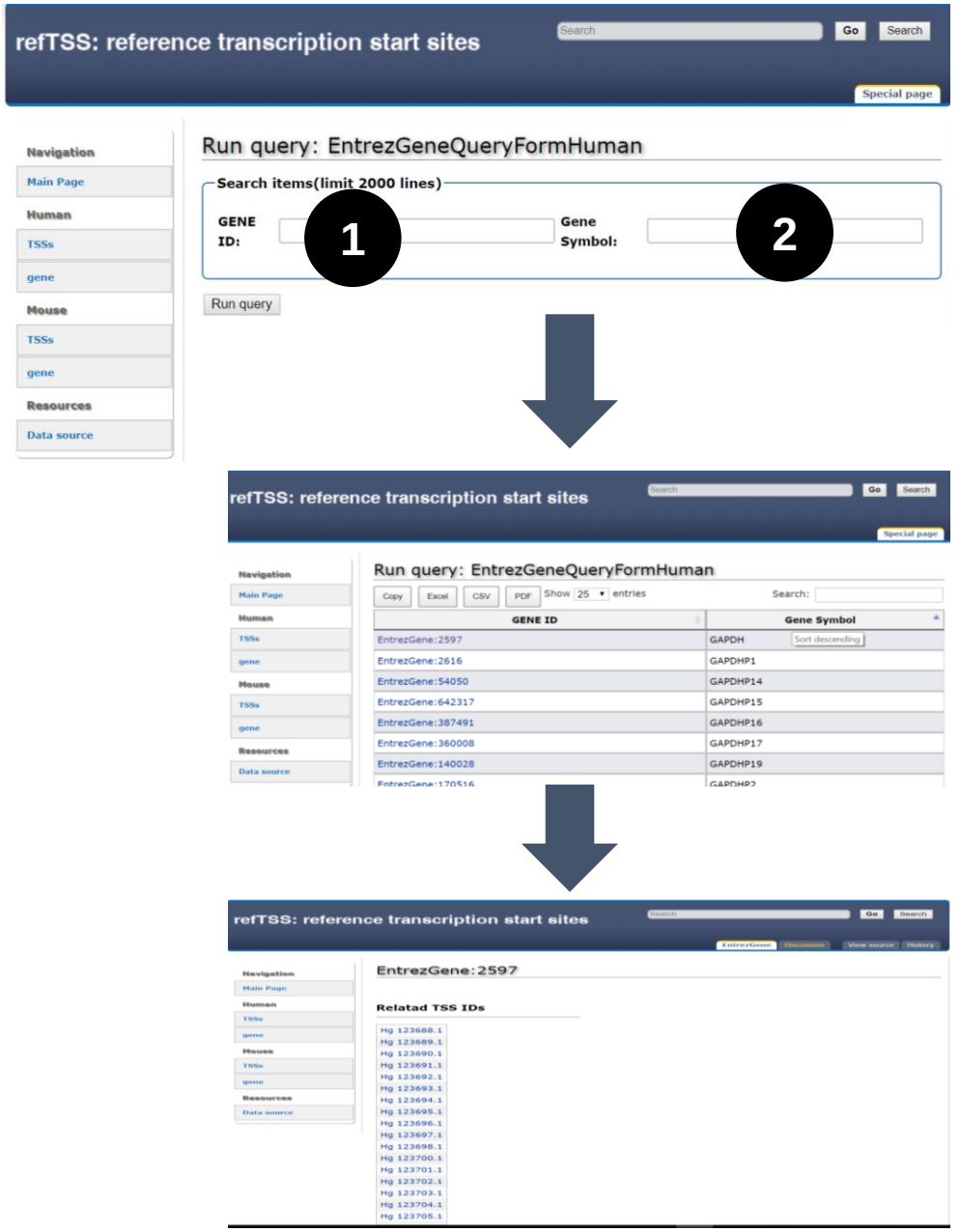
TSS detailed information

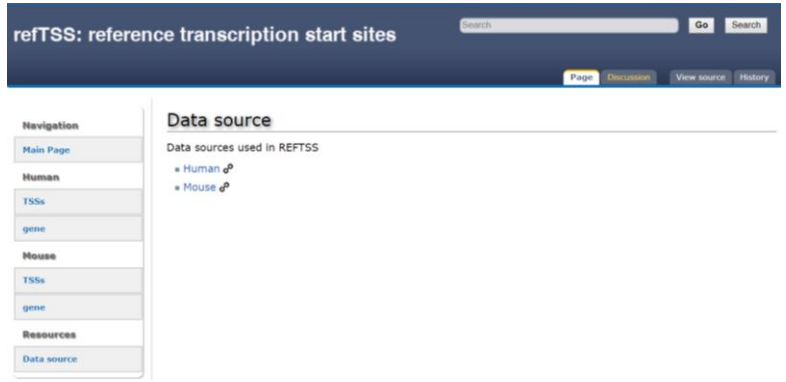
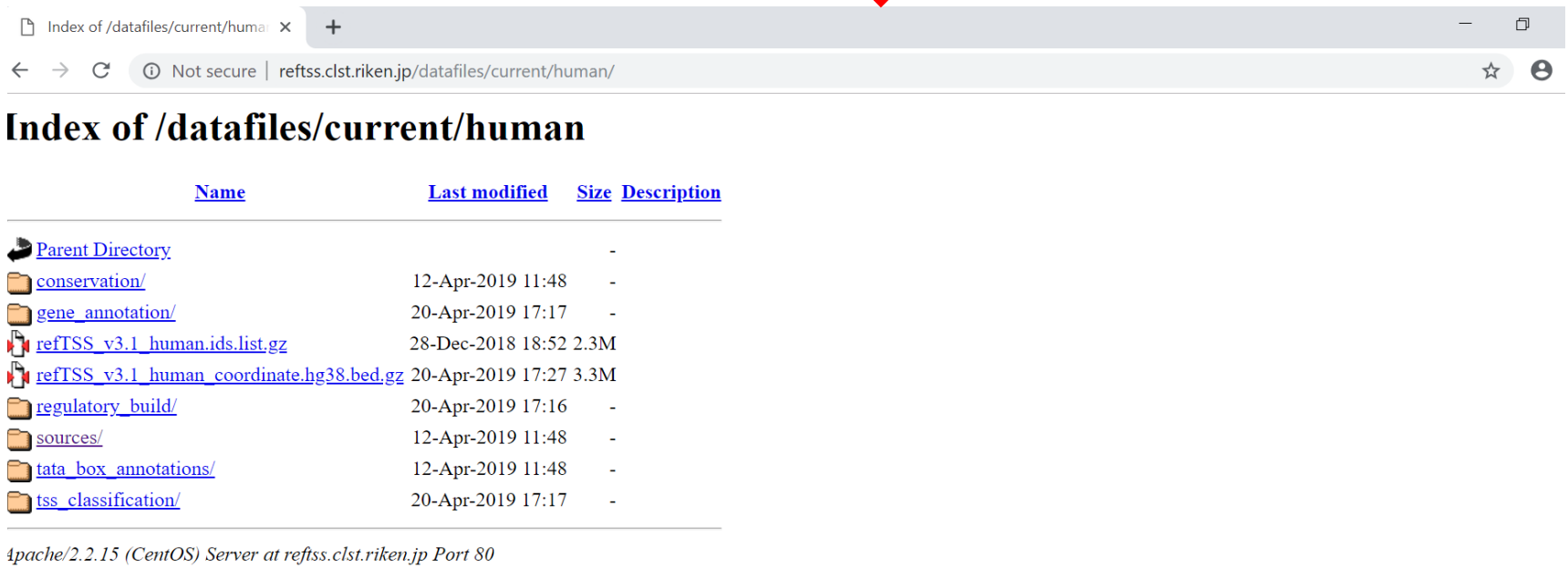
- Clicking any of the TSS ID, detailed information about the TSS are provided.



Enterez gene query form for human

- The gene query menu enable the user to search for TSS by any of the following argument:
- 1 Gene symbol and 2 Gene name
- Search GAPDH gene, will result in a list of all related TSS.



Data sources for download

- The data sources link provide access to all the datasets used to construct refTSS and the resulting annotation and QC.