Viewing HDBR gene expression data in the Image Data Resource

There are four HDBR datasets in the IDR:

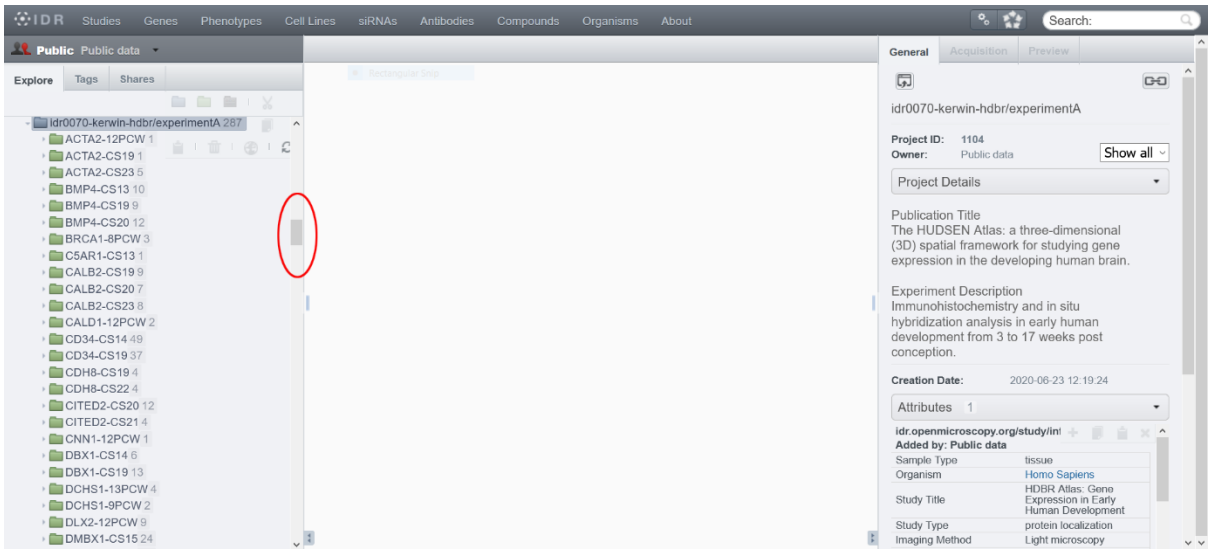
https://idr.openmicroscopy.org/webclient/?show=project-1104

https://idr.openmicroscopy.org/webclient/?show=project-2151

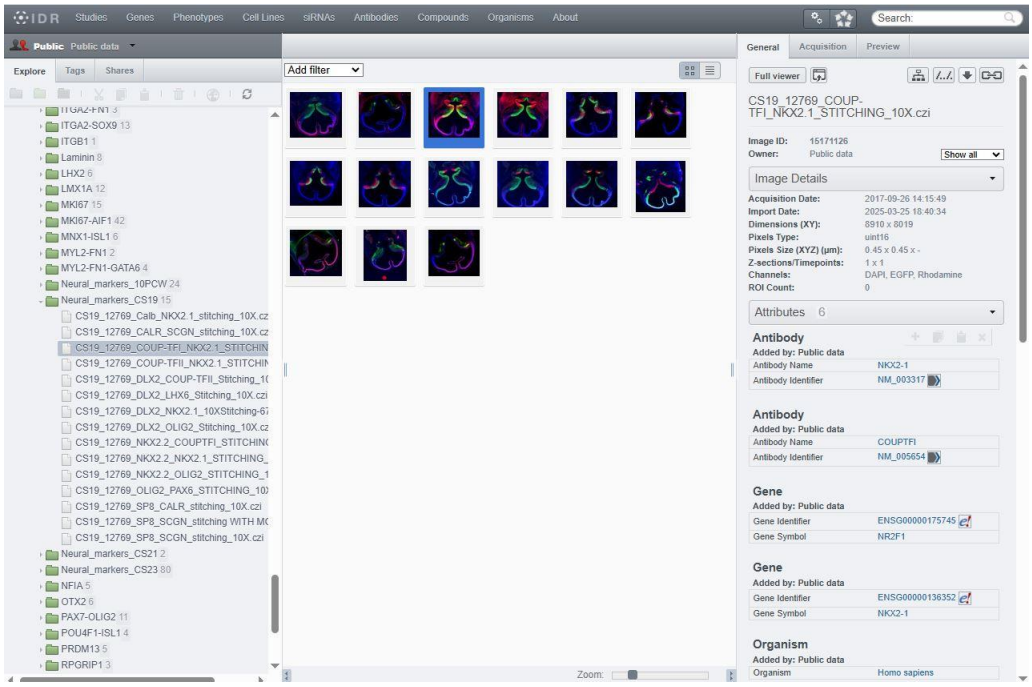
https://idr.openmicroscopy.org/webclient/?show=project-2851

https://idr.openmicroscopy.org/webclient/?show=project-3159

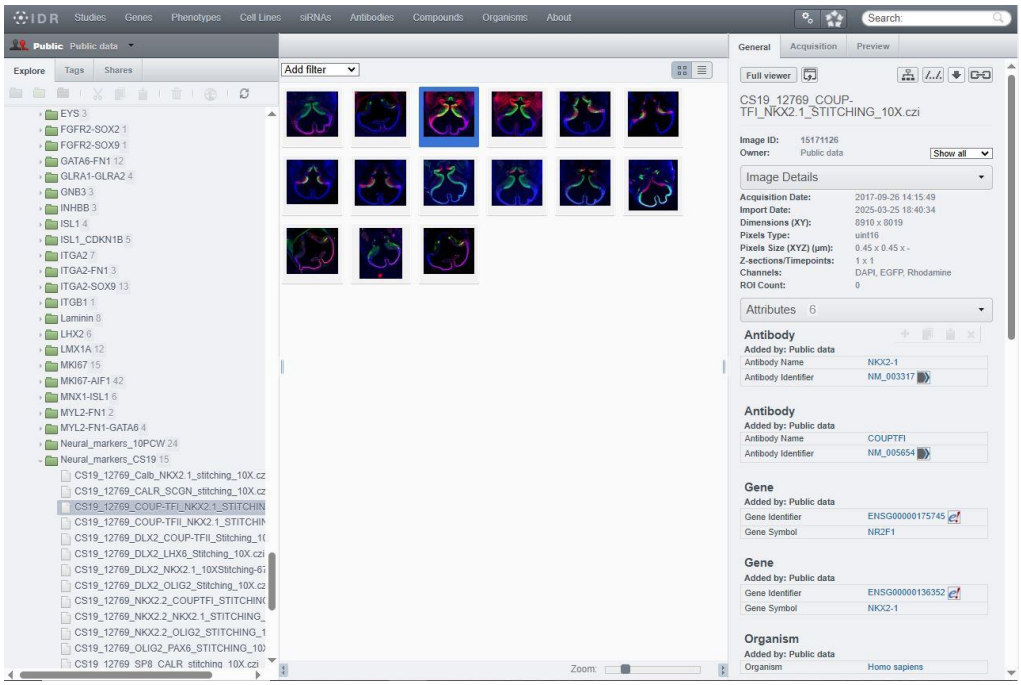
Scroll down the scroll bar on the left-hand side to view the folders. These are usually arranged by gene and stage, or the type of data e.g. Neural markers:



Clicking on one of the folders shows the image thumbnails in the main window:



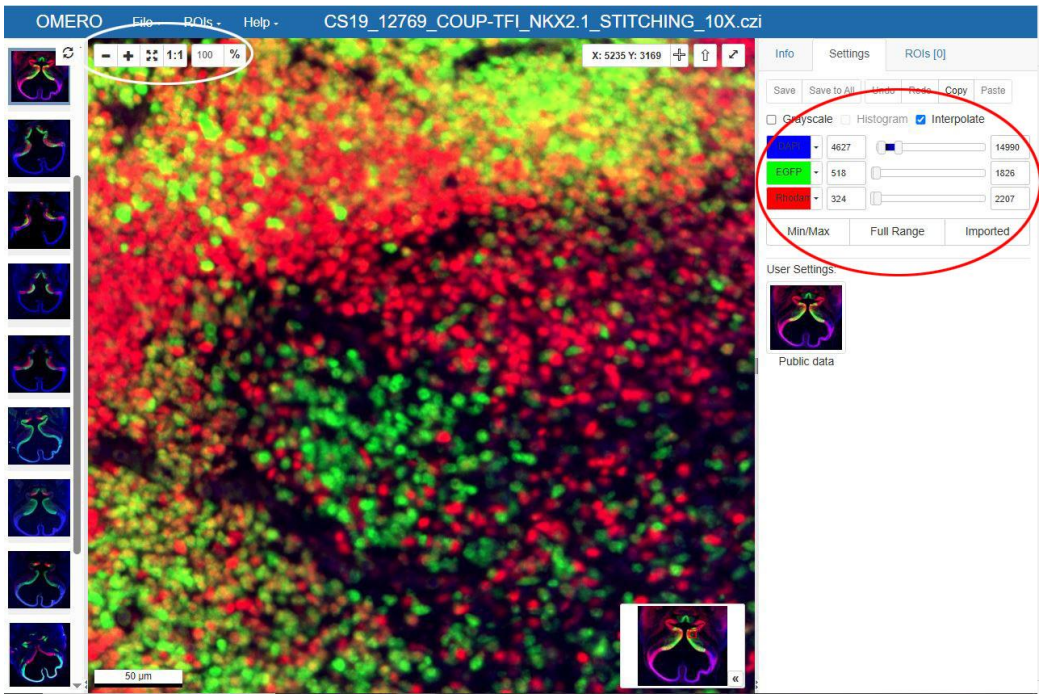
Select a thumbnail by clicking the image:



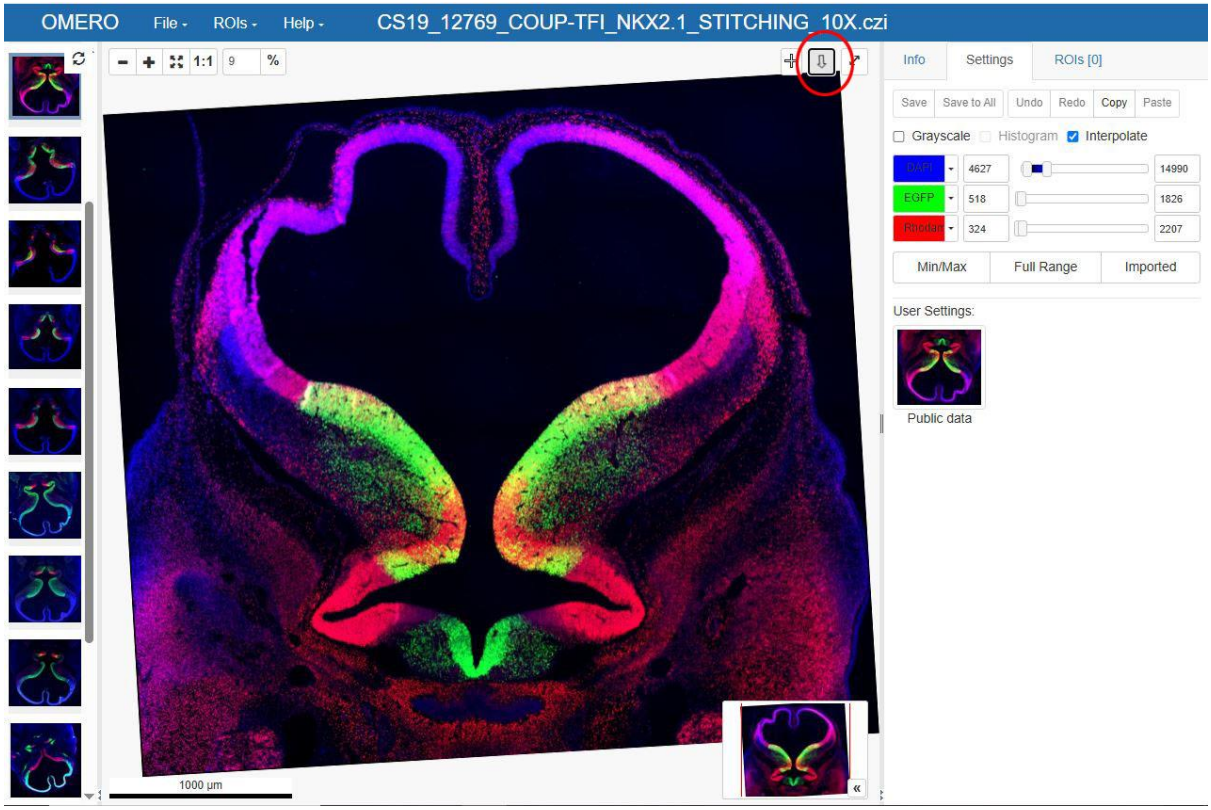
Scroll down on the right hand side to view the gene and antibody/probe details for each section.

Double clicking on a thumbnail image will open the OMERO viewer in a new window:

Using the 1:1 button in the top left-hand corner the image can be viewed at its original resolution. Clicking the button with 4 arrows will reset the view.



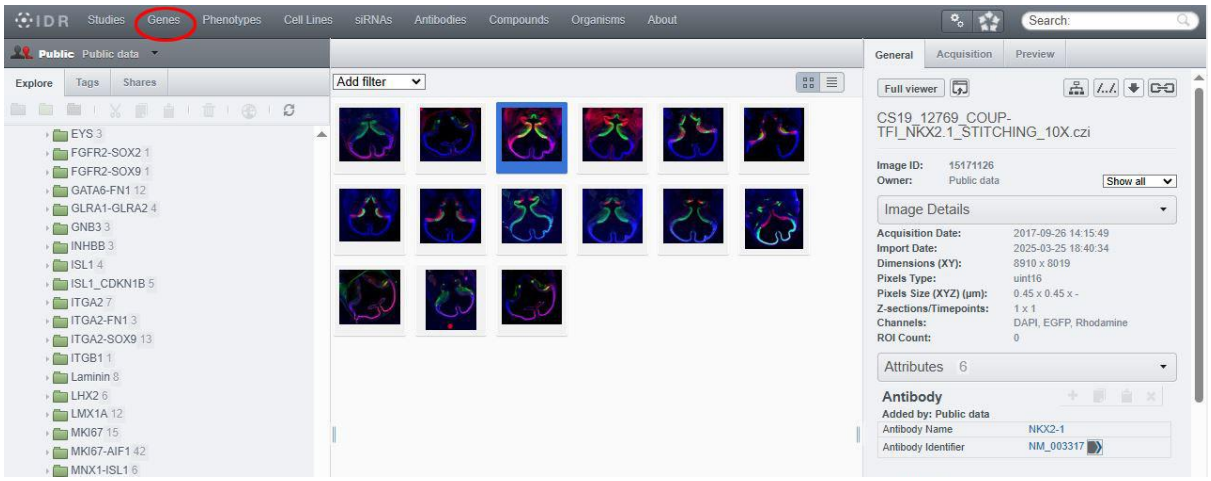
For fluorescent images with more than one channel, the tools on the right-hand side can be used to manipulate the image.



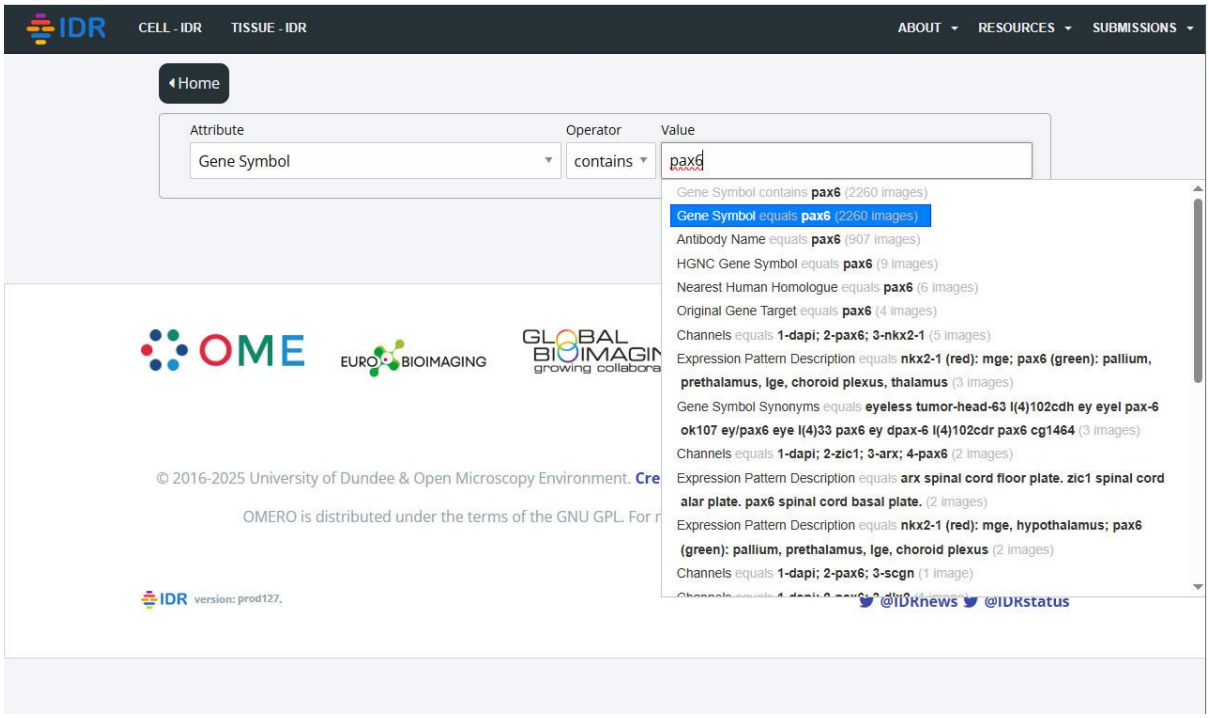
To rotate the image- hold down shift and drag the image with the mouse. The arrow button in the top right corner will reset the rotation.

To search for a gene:

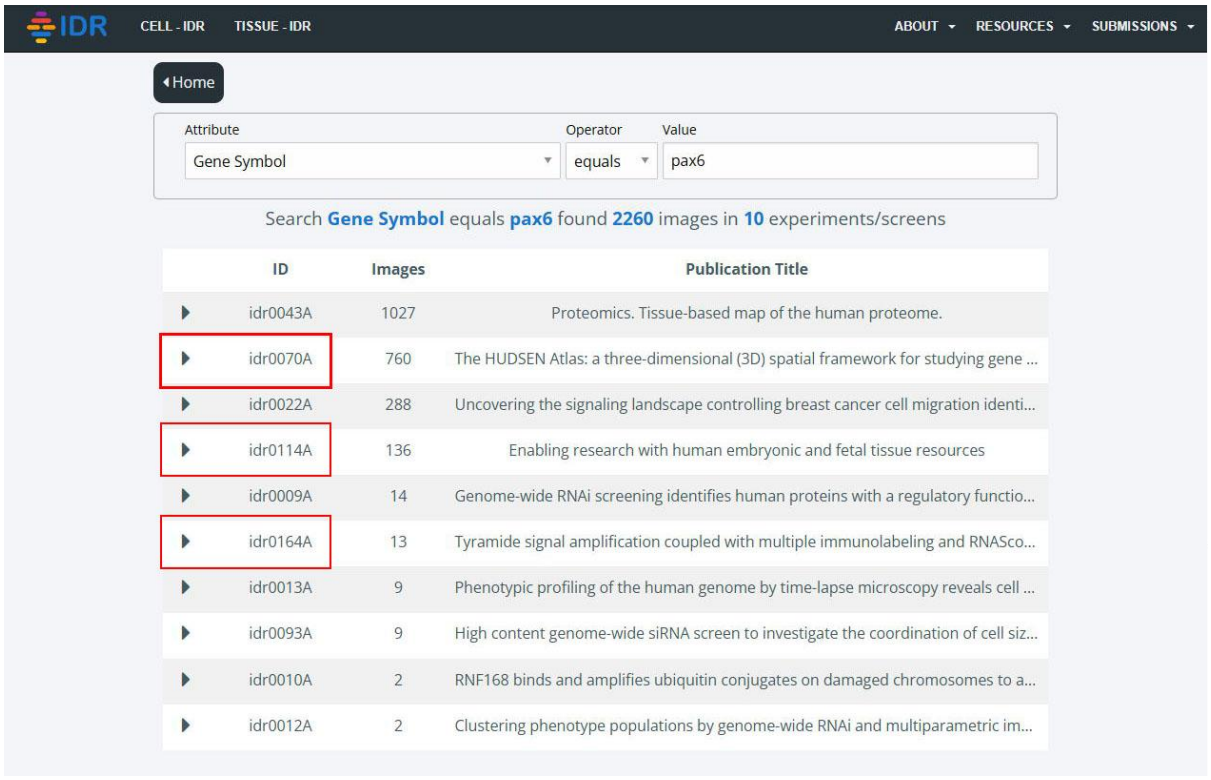
Click the **Genes** tab at the top of the window:



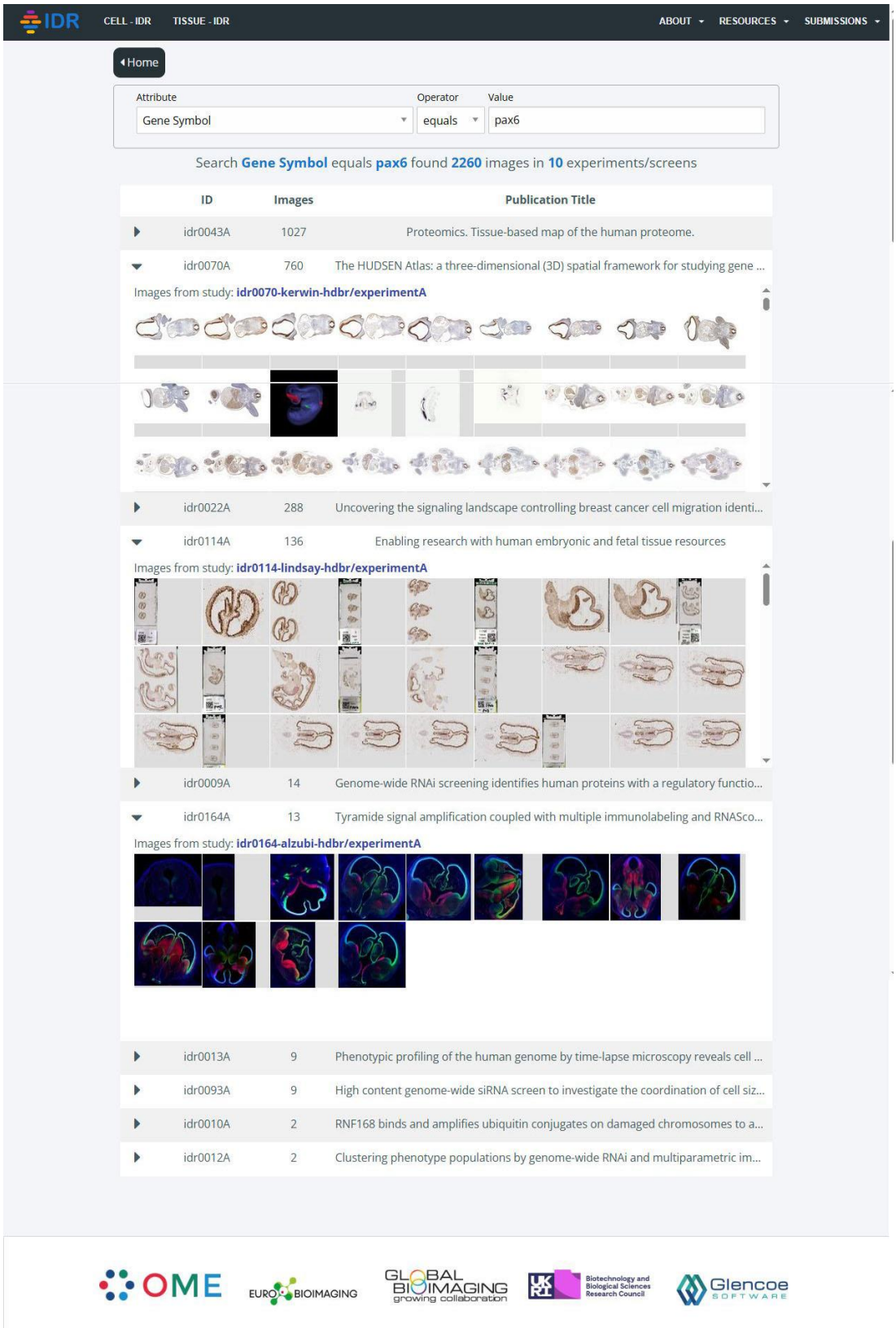
Type the name of the gene



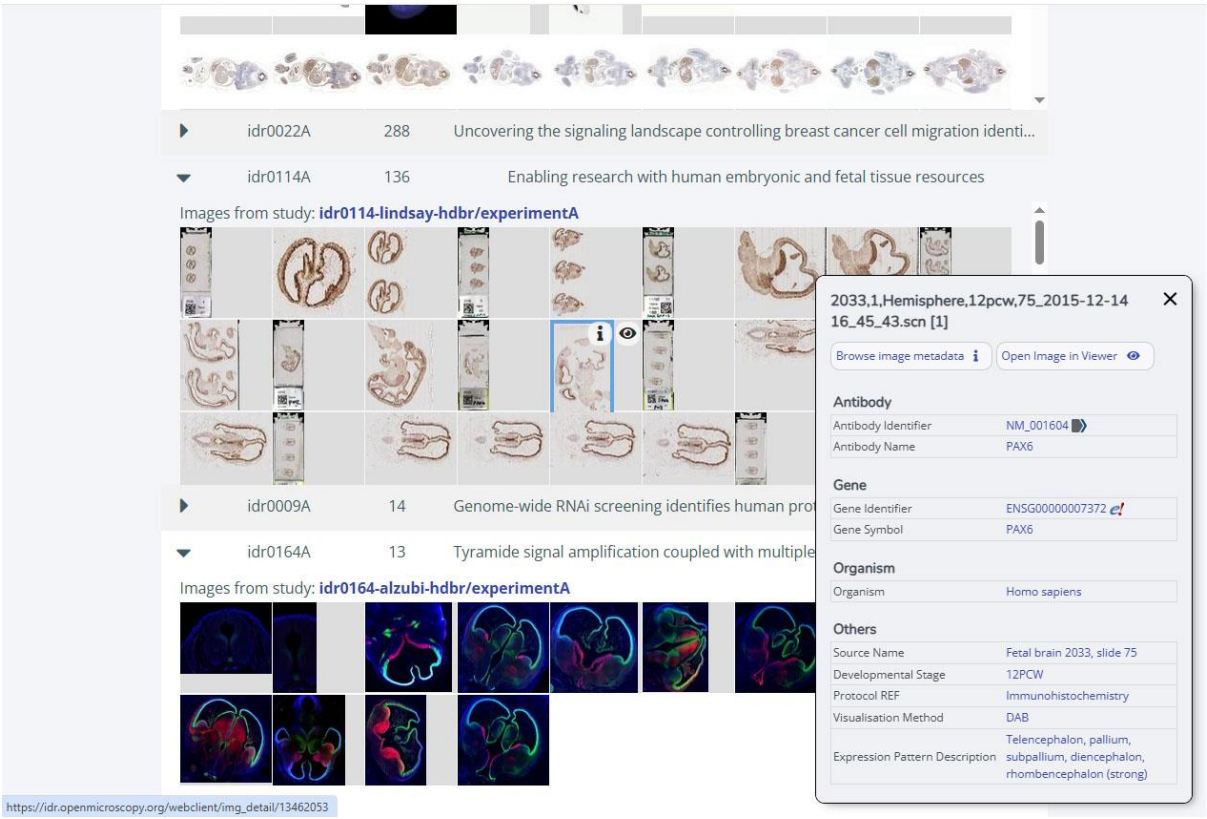
Choosing the Gene Symbol option shows all the experiments containing e.g.PAX6:



Expanding the highlighted images will show the HDBR datasets:



Clicking on a thumbnail will allow you to view the image in the main browser:



For any further information, or to give feedback, please contact **hdbr@newcastle.ac.uk**