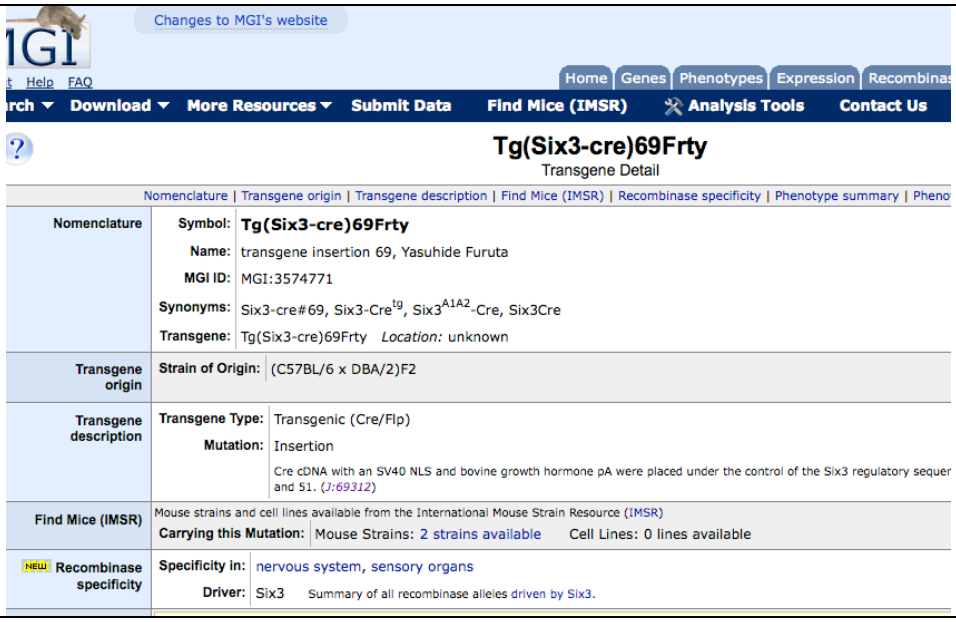
How do I find the MGI transgene ID for the transgene I want to submit?

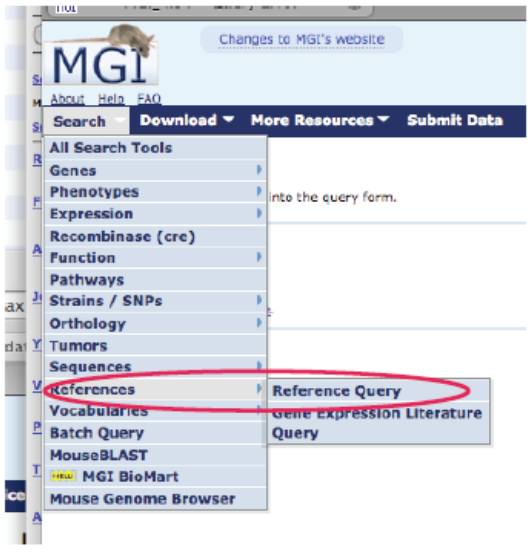
Mouse Genome Informatics (MGI) http://www.informatics.jax.org/ strives to provide a complete description of every transgene that has been published, including an ID number and official symbol that uniquely identify that transgene.

This description can be found on an MGI page called the **Transgene Detail** page. It contains a wealth of information about the transgene, including the ID number that you need to complete the submission of the transgene to the UCSF mouse inventory database.

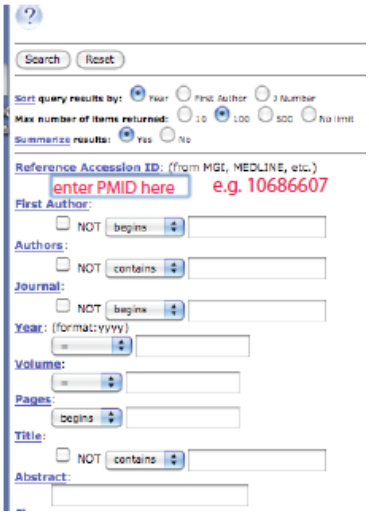


There are two simple methods for finding the **Transgene Detail page**, starting with **(1)** the Pubmed ID (PMID) of a paper in which the transgene is described or **(2)** a key word likely to be in the official symbol for that transgene.

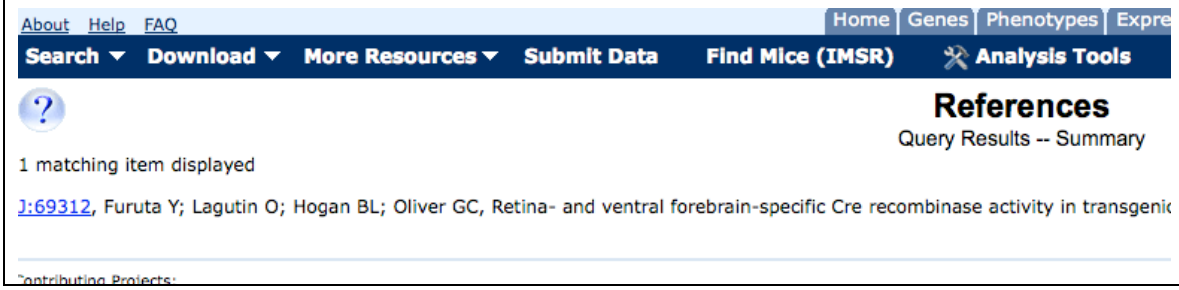
(1) starting with a PMID go to "**References query**," one of the choices on the left side of the MGI home page:



Click on "References Query" and then enter the PMID or other info that identifies the publication.

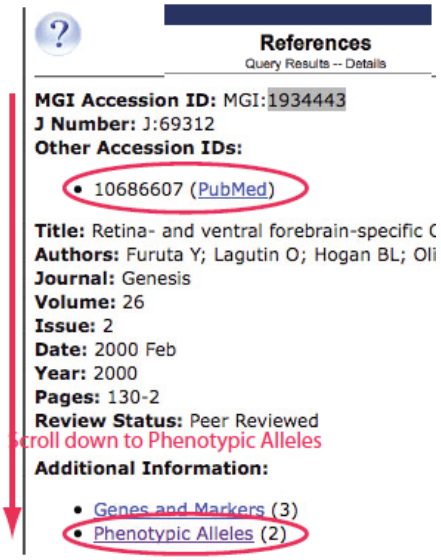


This will bring up a page with a link to the publication (if you start with a PMID there will be only one choice).

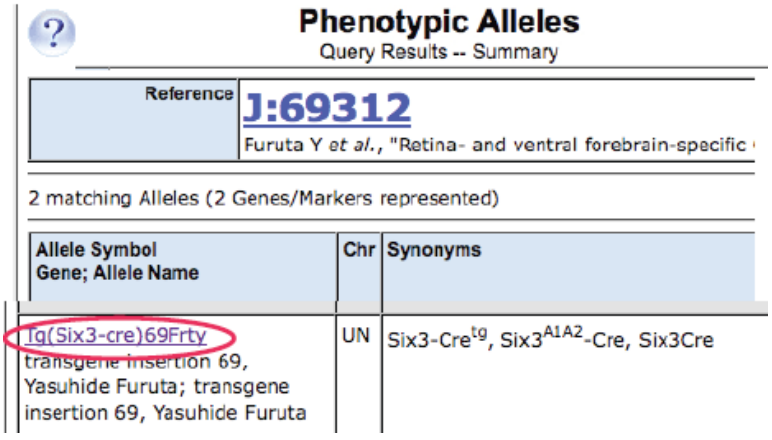


Click on that link, and you will get a page describing the paper, as well as a link – at the bottom of the page – to "Phenotypic alleles."

Click on the "phenotypic alleles" link, which will take you to a page listing all the mutant alleles and transgenes described in **that** paper..



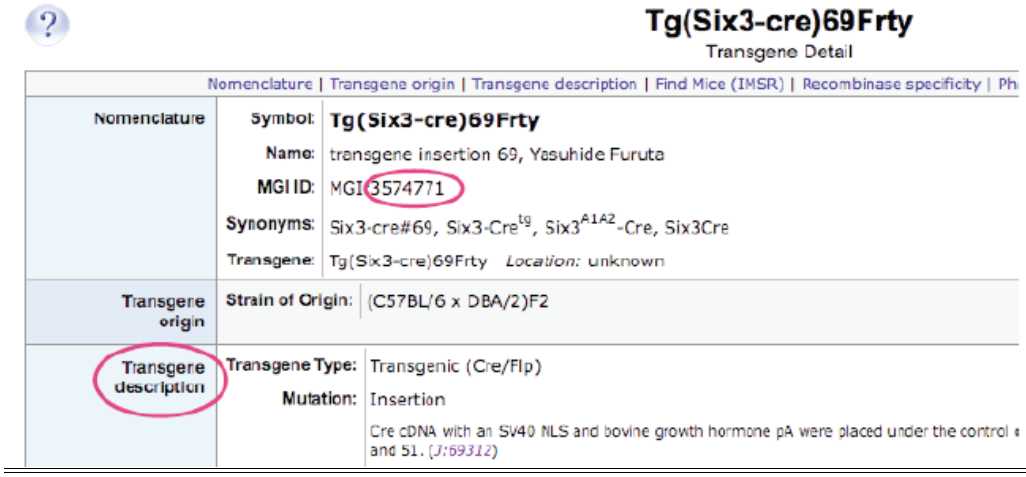
Scroll through and find the one for the transgene you wish to submit to the Inventory.



Finding the correct one usually requires knowledge of where the transgene was made: the official symbol includes a lab code (at the end of the symbol) that usually represents the name of the person in whose lab the transgene was produced.

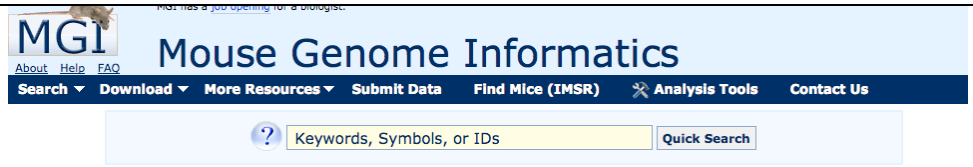
(The example shown is for a transgene produced in Yasuhide Furuta's lab, for which the lab code is Frty). There are exceptions to this. For example, "Unc" (University of North Carolina) is the lab code for transgenes generated in Oliver Smithies' lab.

Click on the correct transgene symbol, for a link to the **Transgene Detail** page that describes it.



Make sure you have chosen the correct one by looking at the description of the transgene on this page. Then, copy the MGI ID (number only) provided in the Nomeclature field at the top of the page to the database submission form.

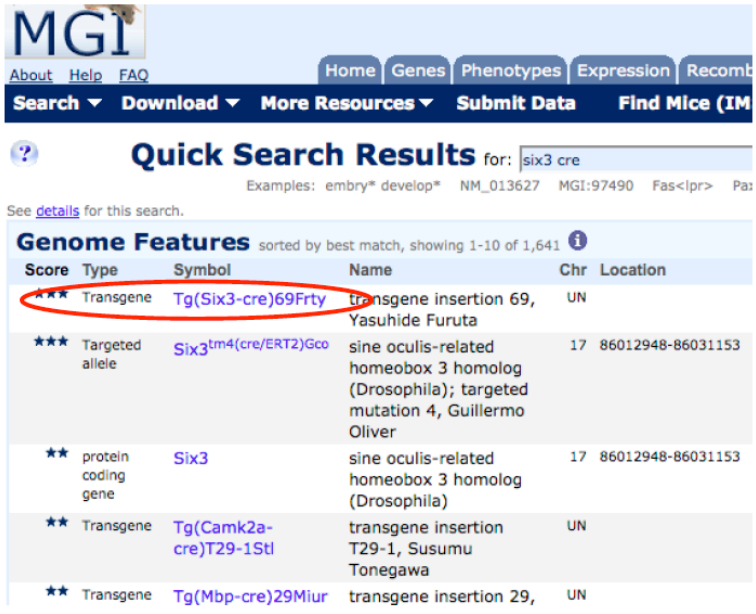
(2) starting with a **key word** likely to be in the official symbol for the transgene, use the "Quick Search" feature on the MGI home page (illustrated below) and at the top right on every other MGI page:



When choosing a key word or phrase, sometimes less is better than more.

Scroll through the query results and find the one for the transgene you wish to submit to the Inventory.

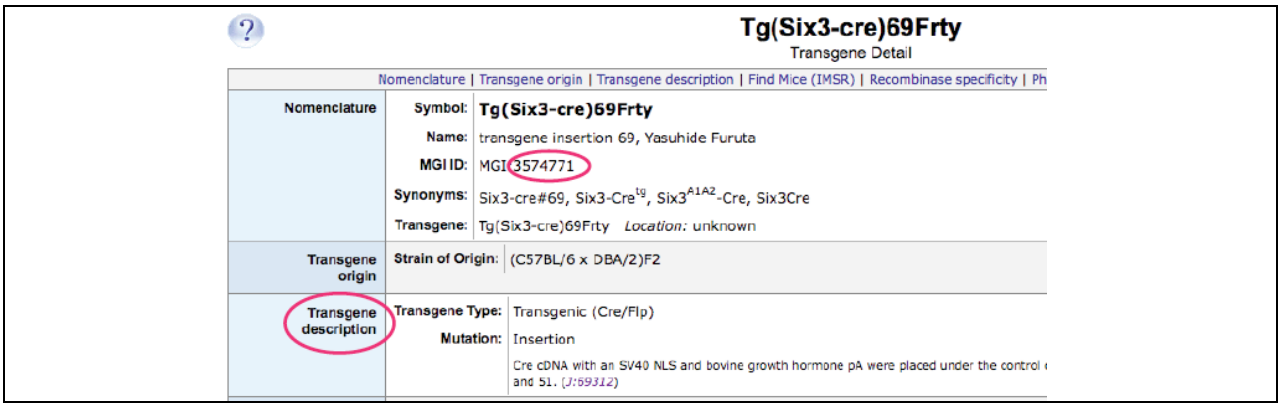
Here, "six3 cre" was entered, but the search would also yield the desired information if "six3" had been entered.



As noted above, finding the correct one usually requires knowledge of where the transgene was made: the official symbol includes a lab code (at the end of the symbol) that usually represents the name of the person in whose lab the transgene was produced.

(The example shown is for a transgene produced in Yasuhide Furuta's lab, for which the lab code is Frty).

Click on the correct transgene symbol, for a link to the **Transgene Detail** page that describes it.



Make sure you have chosen the correct transgene by checking the description of it on this page. Then, copy the MGI ID (number only) provided in the Nomeclature field at the top of the page to the database submission form.

Although MGI strives to have a detail page for every transgene that is published, often they do not have one.

If you cannot find a detail page for the transgene you want to submit using either method, enter "none" in the field where the MGI transgene ID is requested and enter the PMID for a publication describing the transgene.

Database admin will contact MGI and ask them to post a detail page. Your submission will be converted to a record after the detail page is posted