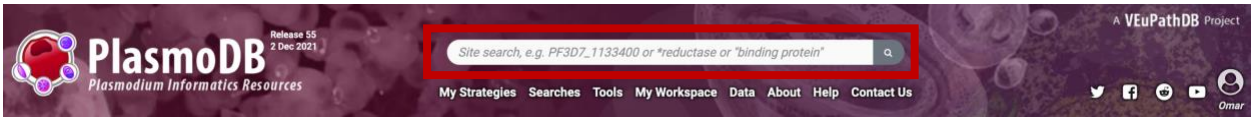
Site Search

Note: *this exercise uses PlasmoDB.org as an example database, but the same functionality is available on all VEuPathDB resources.*

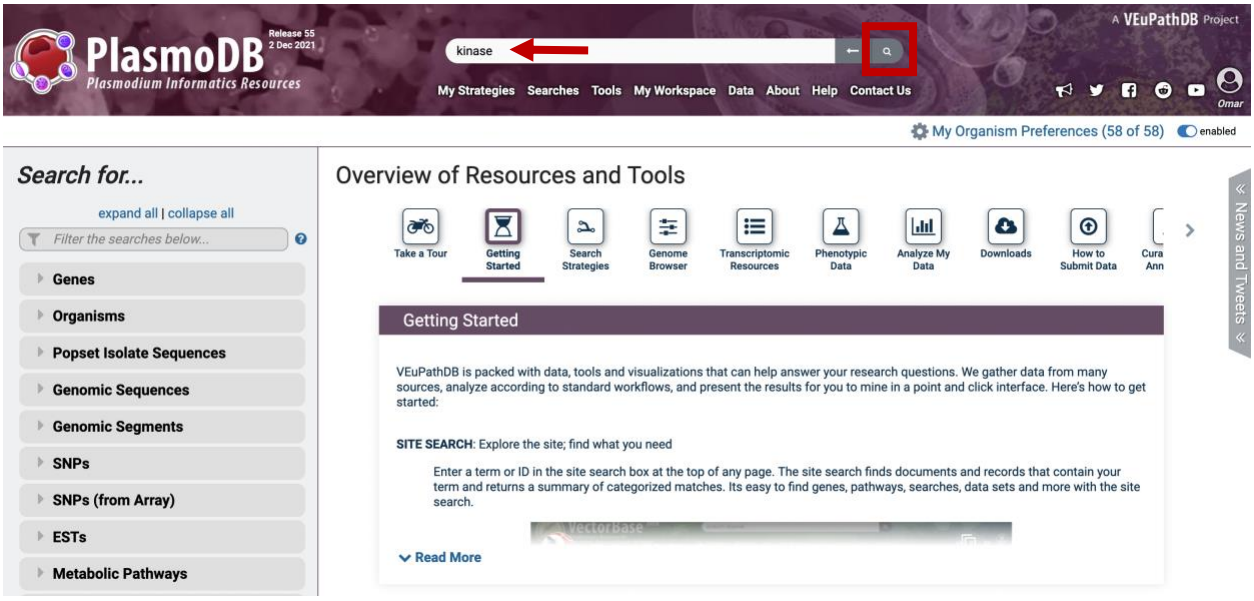
Learning objectives:

- Use keywords in site search
- Explore site search results
- Filter site search results by categories
- Filter site search results by organisms
- Filter site search results by category fields
- Export results to a search strategy
- Find a specific gene using its ID in site search

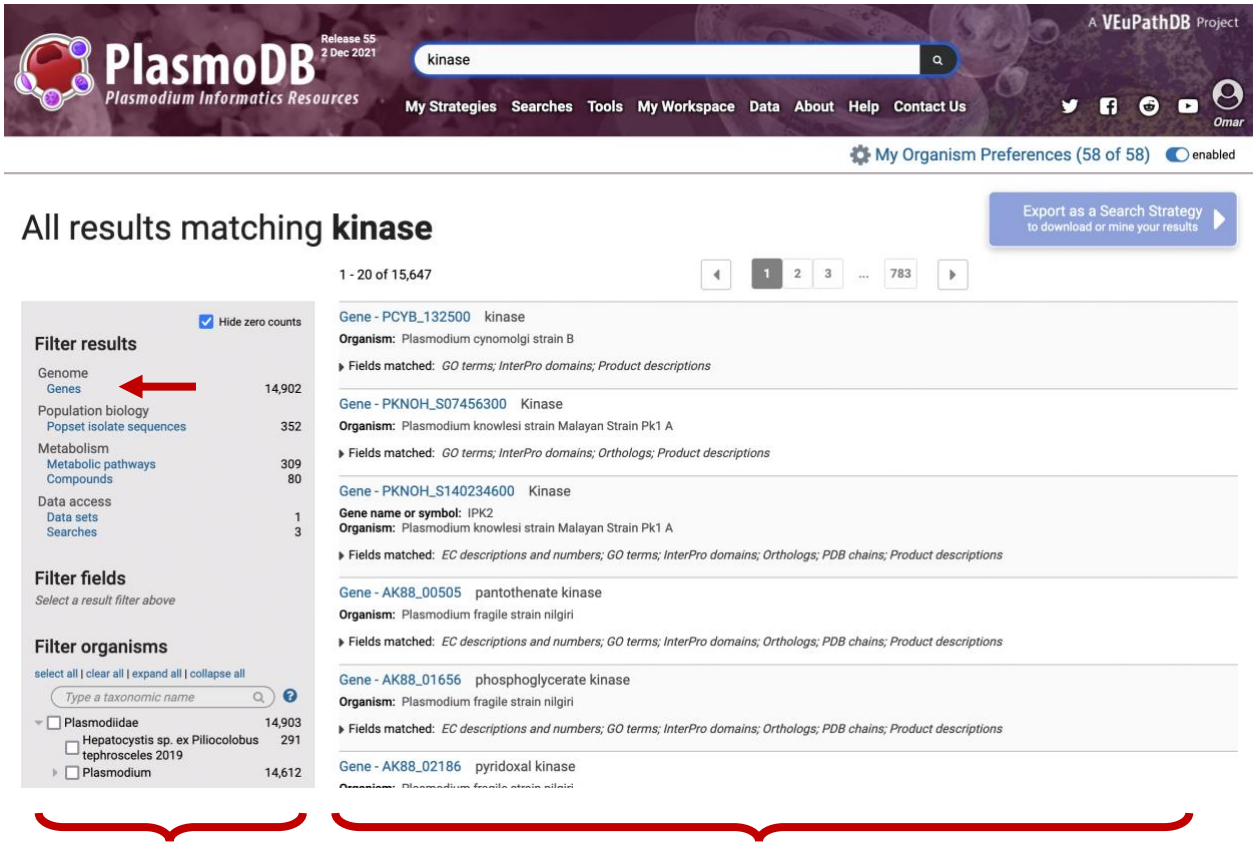
The site search is located in the header of any VEuPathDB site and is available from every page. The site search queries the databases for your term or ID and returns a list of pages and documents that contain your query term.



1. Enter the word *kinase* in the site search window (arrow in the image below). Then click enter on your keyboard or click on the search icon (square in the image below).



2. The site search returns a categorized list of pages and documents that contain your term. Site search results are summarized by category, with a details panel on the right. Changing the panel on the left will populate the details panel with that list. What is the total number of results with the word kinase? Are all the results genes? Explore the filter panel on the left side of the webpage.

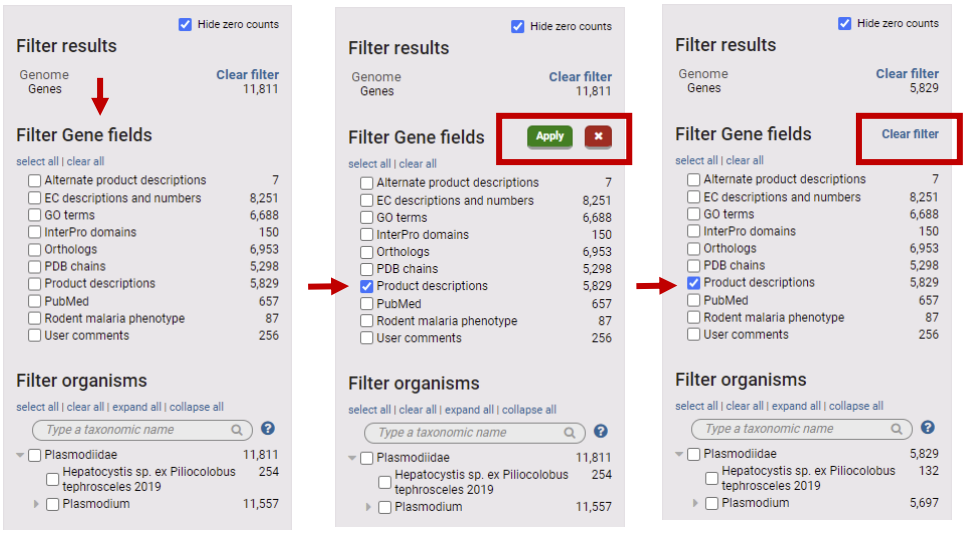


Results summarized in categories

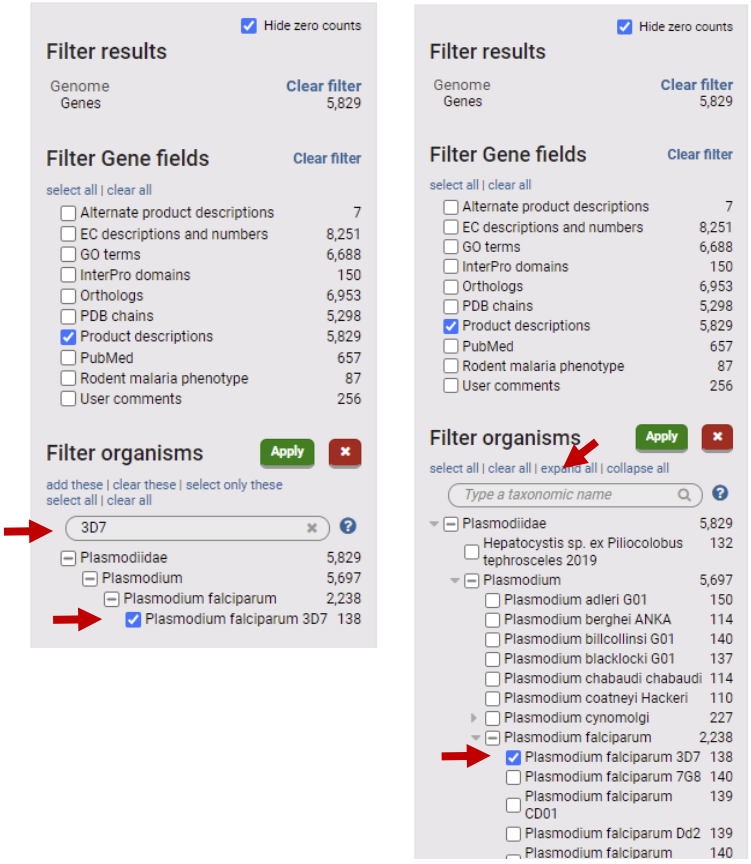
Details panel with information about each item returned

3. Filter the results so that you only view gene results (hint: click on the word *genes* in the *Filter results* section; arrow in image above). How many of the genes included the word kinase in their product descriptions?

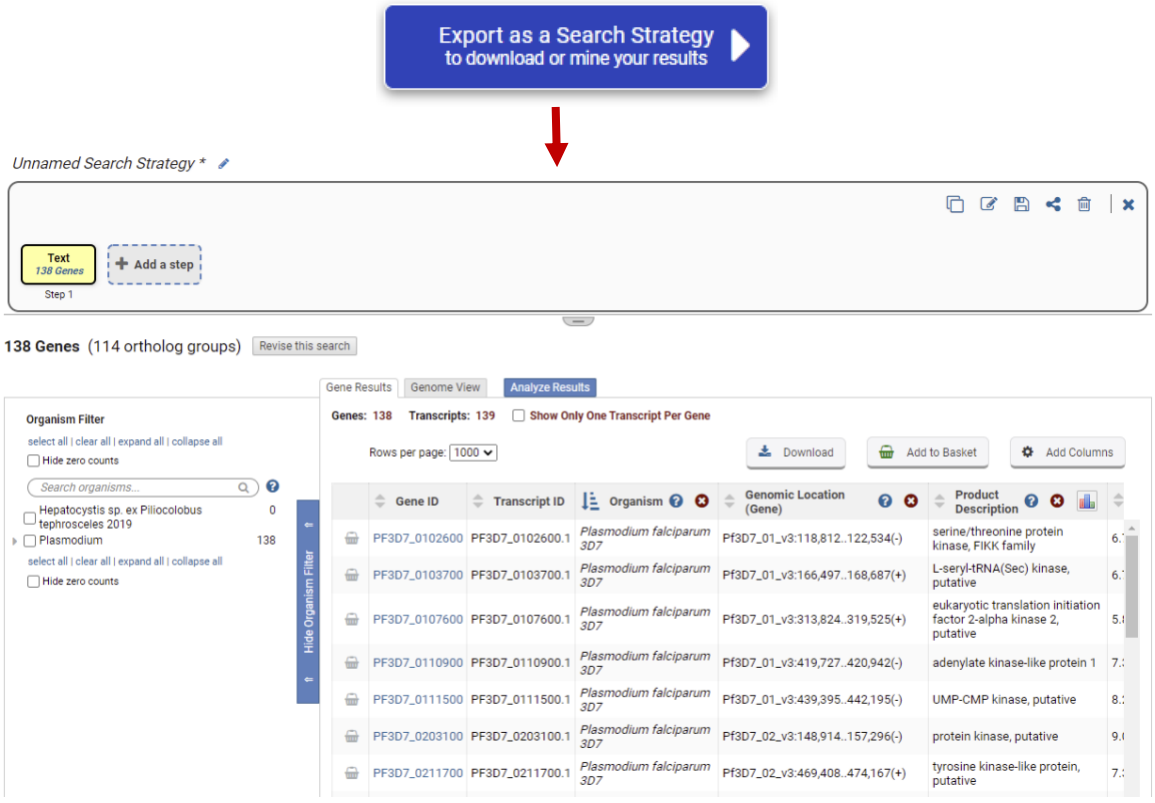
   Notice that once you filter the result by genes (click on the *Genes* filter), the Filter Fields section expands to reveal additional filtering options. Select the *Product descriptions* field and Choose *Apply* this filter or cancel it (box middle panel below). Once a filter is applied it can be cleared by clicking on *Clear filter* (box left panel below).



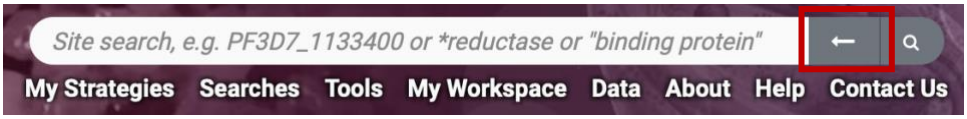
4. How many of the above genes are found in *Plasmodium falciparum* 3D7? How did you find this number? Hint: explore the *Filter organisms* section of the results filter. There is a search option to aid navigation through the organism tree (left) or the tree can be expanded to find the organism of interest (right). Select the correct organism and apply the filter.



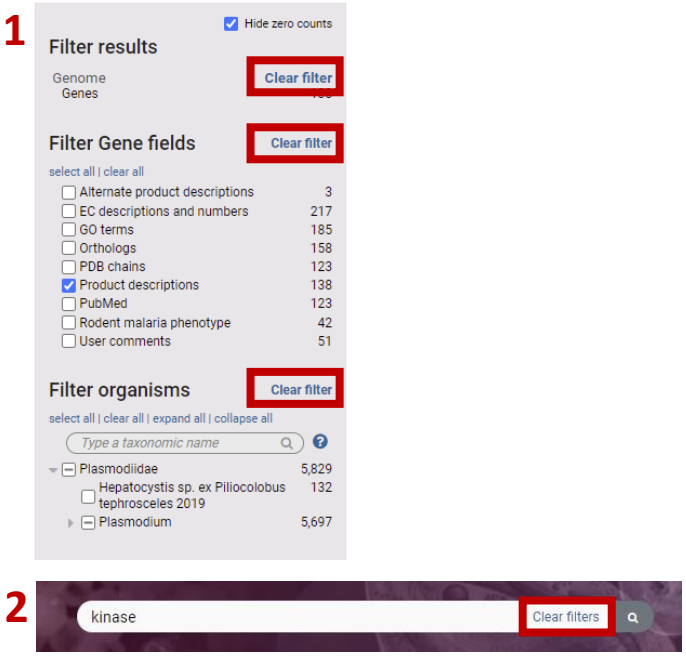
5. Export the results to a search strategy. Use the blue *Export as a search strategy* button at the top right-hand side of the results.



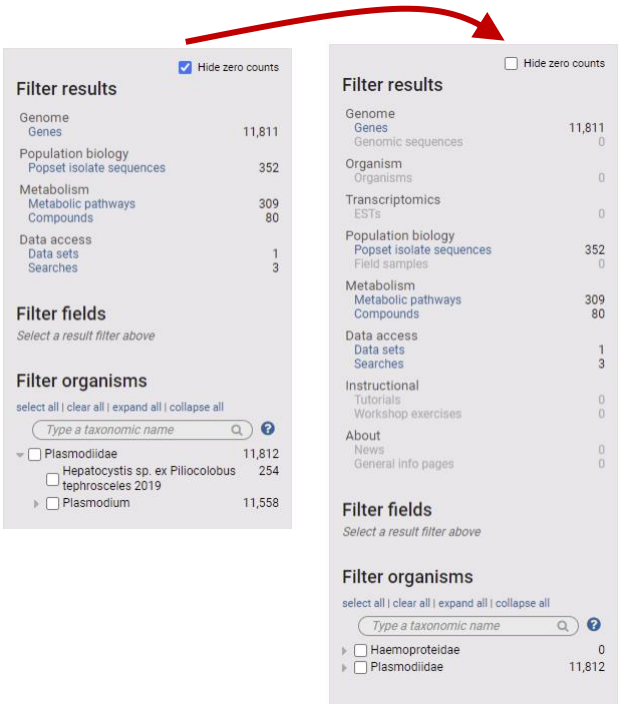
6. Return to the site search results page. You can achieve this in two ways: 1. Your previous results and filter settings were preserved and can be accessed by clicking on the ‘back to results’ arrow in the site search window. 2. Click on your browser’s back arrow. Notice that



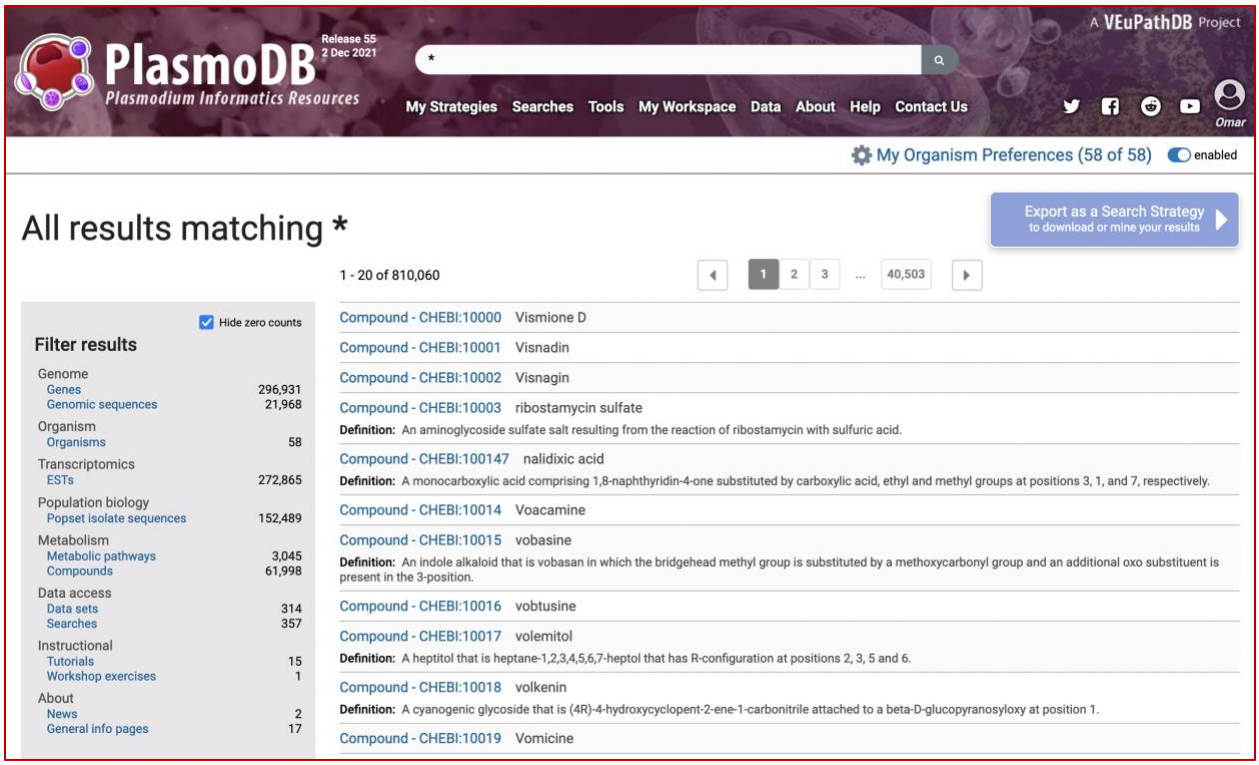
7. Clear all filters. You can achieve this in two ways: 1. You can click on each of the clear filter options in the filter results panel (boxes below). 2. You can click on the *clear filters option* in the site search window, which serves to Clear All filters.

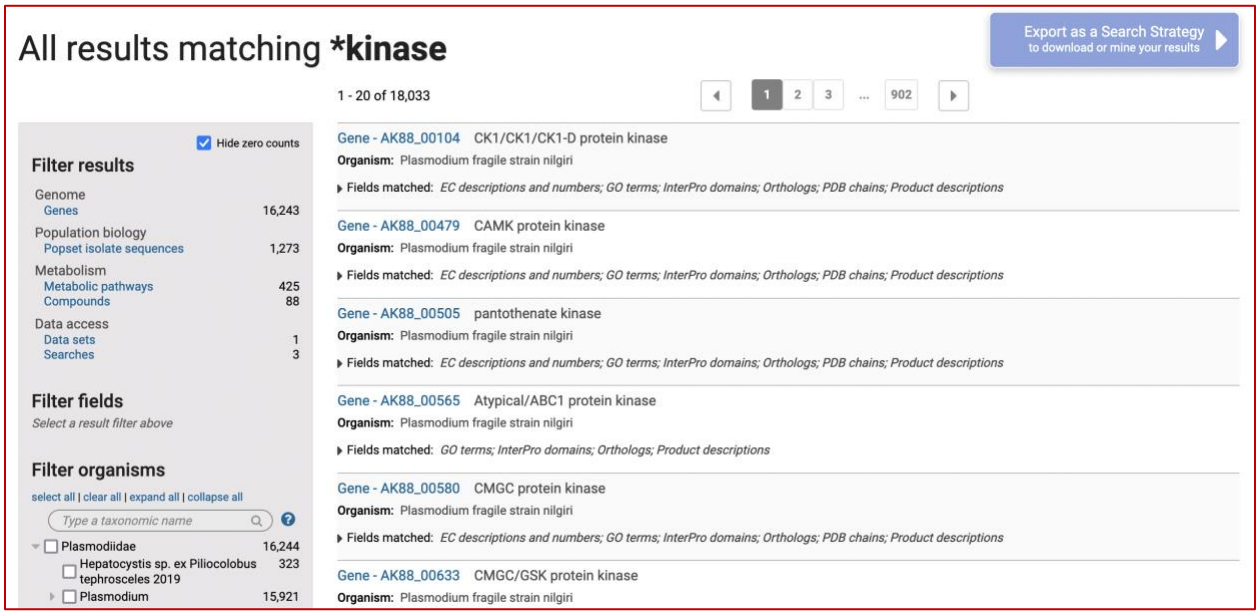


8. Click the *Hide zero counts* check box in the *Filter results* panel. What does this do?

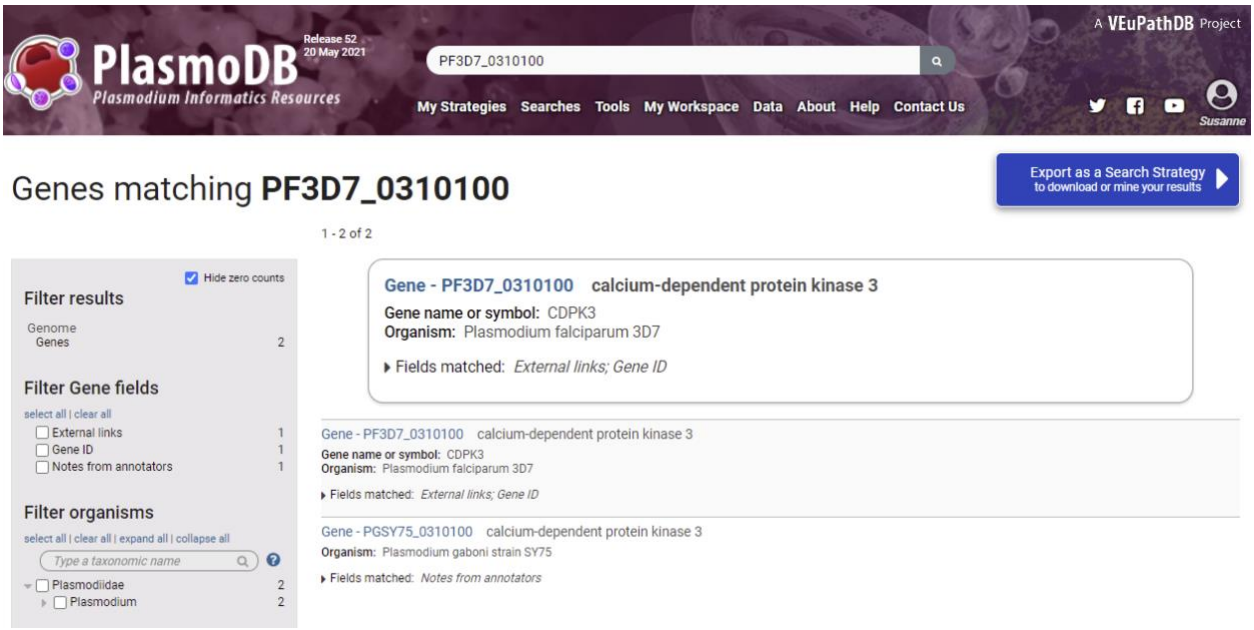


9. Try running a search with a wild card. The wild card is denoted by an asterisk *. The wild card can be used alone to retrieve all results available to the site search or combined with a word such as **kinase* to retrieve compound words ending with the word kinase like phosphofructokinase. As usual results can then be explored using the filters in the *Results filter* on the left side of the website.





10. Try searching for a specific gene ID. Enter the gene ID below in the site search window: *PF3D7_0310100*



When the query ID has an exact match in the database, the site search returns a card at the top of the details panel for easy access to the gene page. The site search also returns other pages that contain the query ID. Click on the Gene ID to go the gene page.