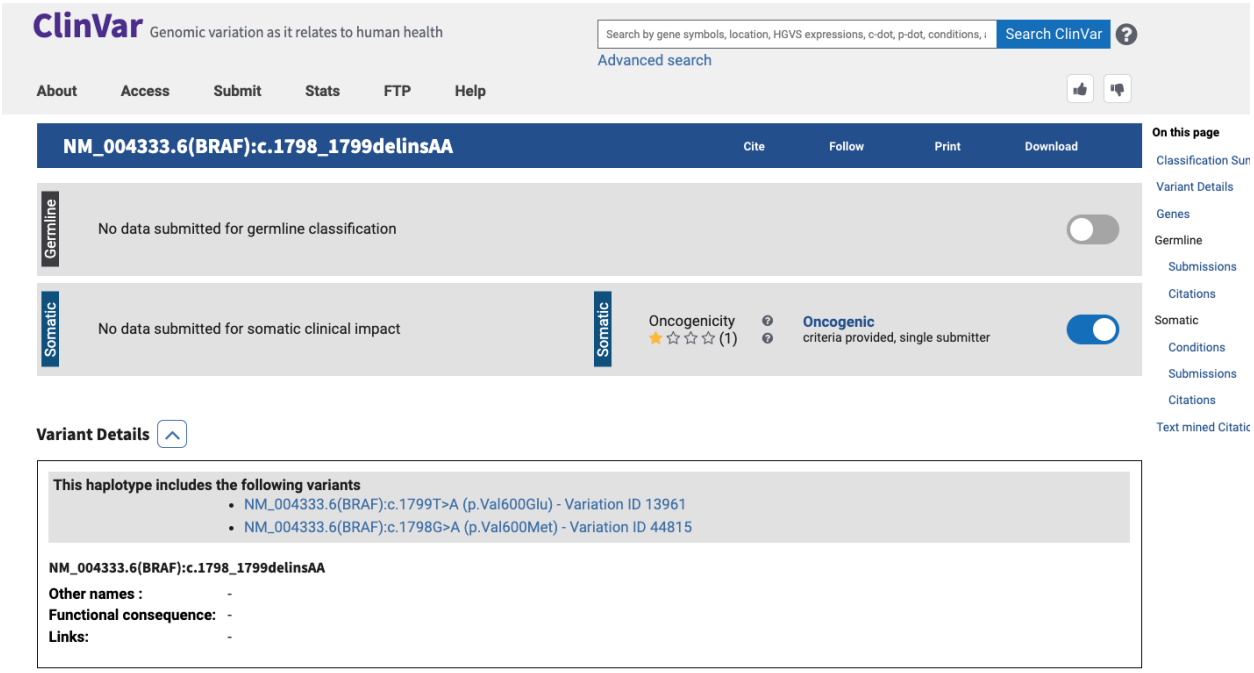
Using ClinVar and CIViC Web Interfaces

Querying variants against the ClinVar interface

1. Go the ClinVar web interface at https://www.ncbi.nlm.nih.gov/clinvar/ and query the following variant in the search bar at the top: “BRAF V600E”

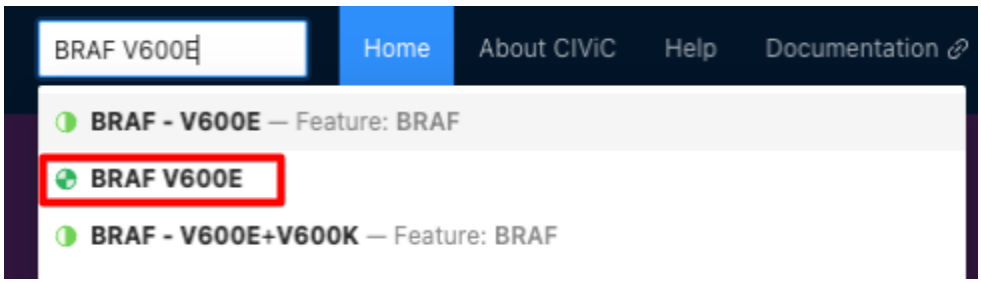
2. Click on the second variant listed under “Search Results”. The selected entry should look like:



3. Examine the different categories on the page. Do you think this is a trustworthy oncogenicity assessment? Why or why not?

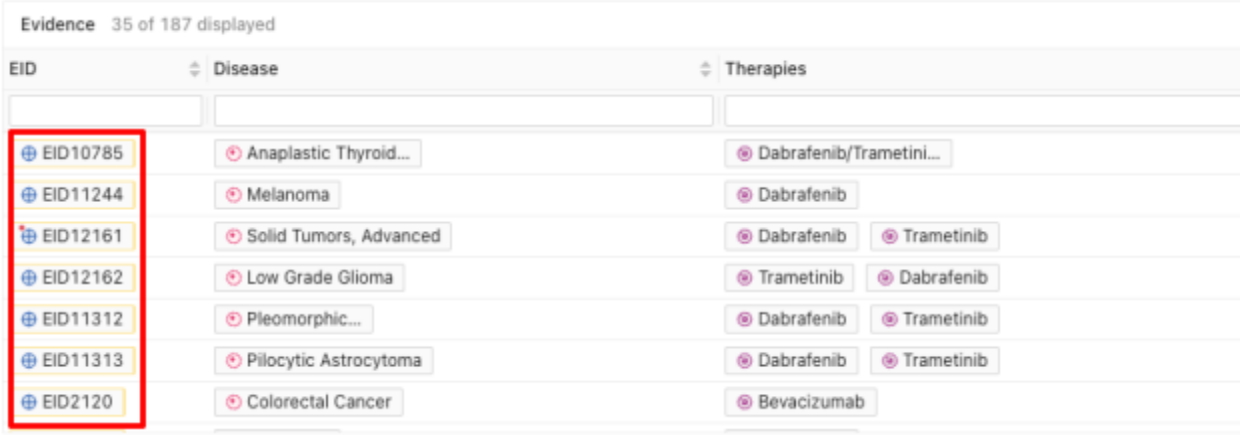
Querying variants against the CIViC interface

1. Go to the CIViC web interface at https://civicdb.org/ and again query the following variant in the search bar at the top: “BRAF V600E”. Click on the second item that appears in the search bar

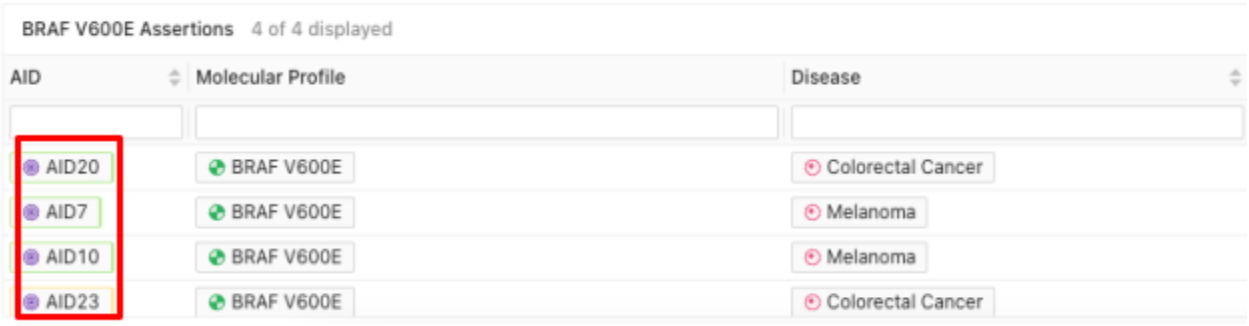


2. Examine the molecular profile entry. What different categories do you see on the page?

3. Go to the “Evidence” box and click on one of the evidence IDs. What evidence item did you choose? What rating was associated with that evidence item and why?



4. Go to the “BRAF V600E Assertions” box and click on one of the assertion IDs. What assertion item did you choose? What was the variant origin and AMP/ASCO/CAP category associated with the assertion?



We are done with the variant querying sections of this lab. Now, navigate to the `workspace/Notebooks` directory in your amazon instance and open the `variant_interpretation.ipynb` notebook. The remaining portions of this lab will be done in this notebook.