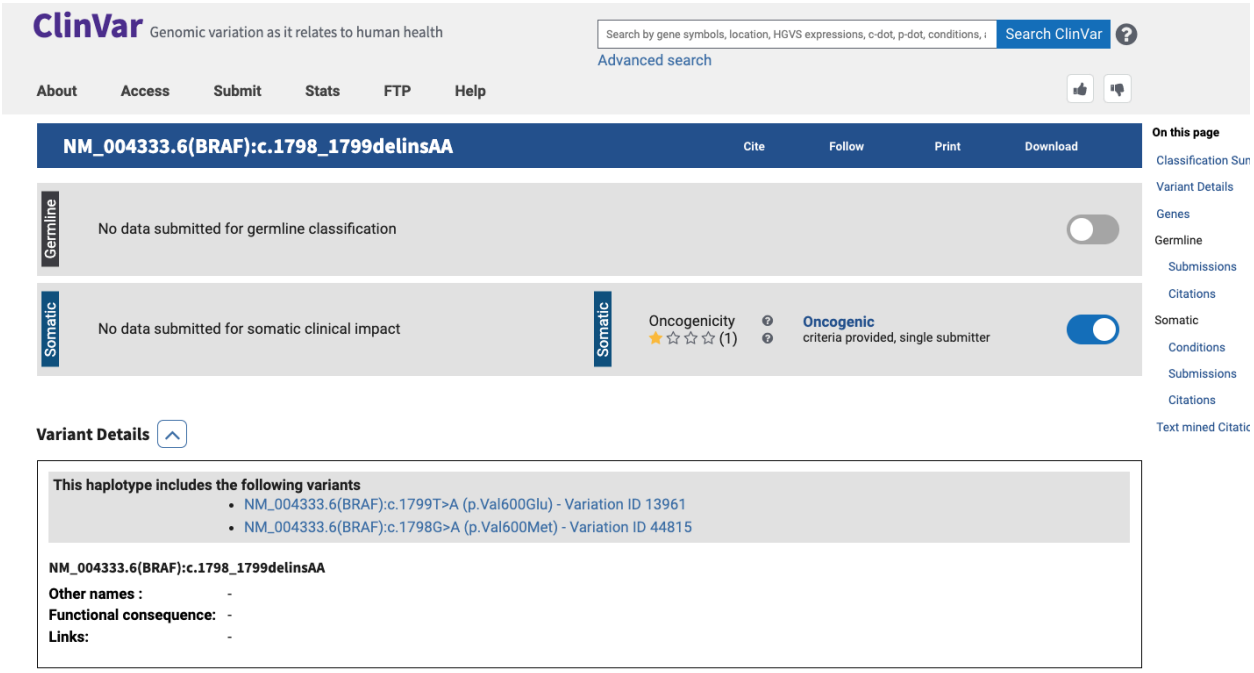
Using ClinVar and CIViC Web Interfaces

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”

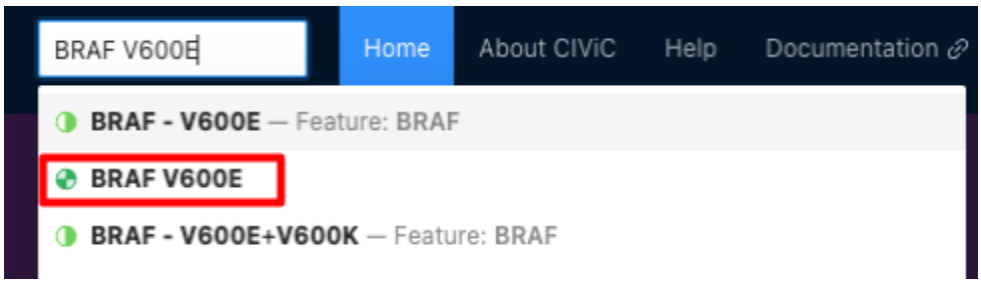
2. Click on the second variant listed under “Search Results”. The selected entry should look like:



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

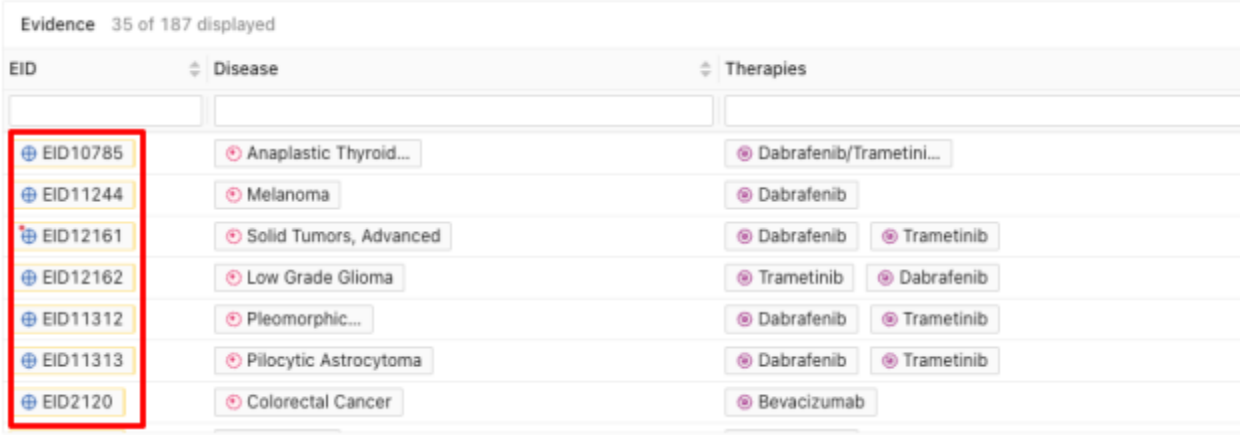
Querying variants against the CIViC interface

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?

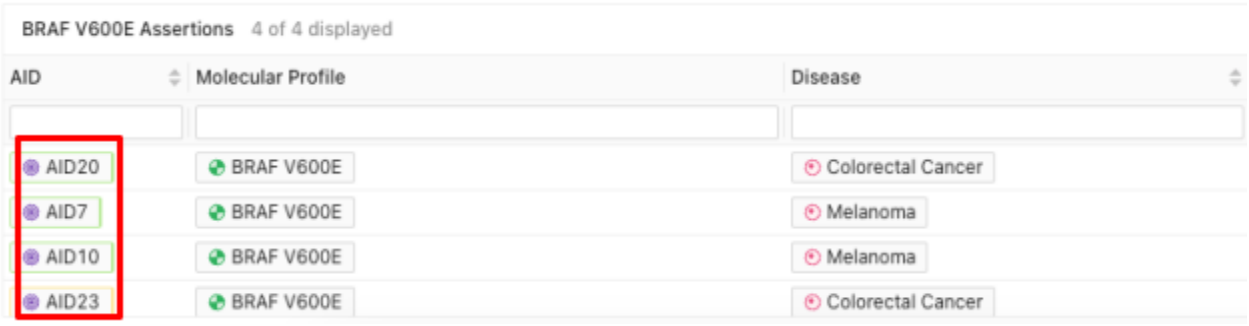
3. Go to the “Evidence” box and click on one of the evidence IDs. What evidence item did you choose? What rating was associated with that evidence item and why?



Evidence 35 of 187 displayed

EID	Disease	Therapies
EID10785	Anaplastic Thyroid...	Dabrafenib/Trametini...
EID11244	Melanoma	Dabrafenib
EID12161	Solid Tumors, Advanced	Dabrafenib, Trametinib
EID12162	Low Grade Glioma	Trametinib, Dabrafenib
EID11312	Pleomorphic...	Dabrafenib, Trametinib
EID11313	Pilocytic Astrocytoma	Dabrafenib, Trametinib
EID2120	Colorectal Cancer	Bevacizumab

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?



BRAF V600E Assertions 4 of 4 displayed

AID	Molecular Profile	Disease
AID20	BRAF V600E	Colorectal Cancer
AID7	BRAF V600E	Melanoma
AID10	BRAF V600E	Melanoma
AID23	BRAF V600E	Colorectal Cancer