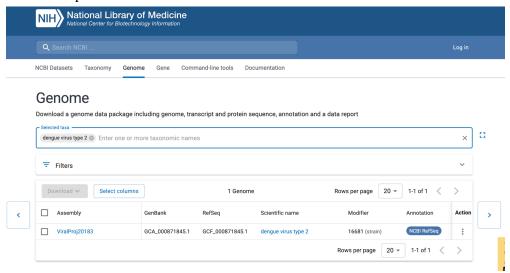
Sourcing of Annotation Files

The following method was used to download the files for the reference genomes. This method was chosen as it contained direct download links to the gff files which can be used to load annotation tracks into the browsers using just a wget command rather than having the save the file locally.

Steps to access the annotation links

1. Go to NCBI Genome and type in desired virus strain, here Dengue Virus Type 2 is used as an example



2. Click on the available result and it should take you to this page. If you have multiple results, use the entry that matches your needs.



3. Now click on FTP and it will take you to this page

Index of /genomes/all/GCF/000/871/845/GCF_000871845.1_ViralProj20183

Name	Last modified	Size	
Parent Directory		_	
	2024-09-03 06:32	1.1K	
	2024-09-03 06:32	5.0K	
	2019-12-18 09:52	3.5K	
GCF 000871845.1 ViralProj20183 feature count.txt	2023-12-13 19:15	373	
GCF 000871845.1 ViralProj20183 feature table.txt.gz	2019-12-18 09:52	727	
GCF 000871845.1 ViralProj20183 genomic.fna.gz	2015-05-15 01:55	3.5K	
GCF 000871845.1 ViralProj20183 genomic.gbff.gz	2023-07-23 01:22	9.7K	
GCF 000871845.1 ViralProj20183 genomic.gff.gz	2023-05-04 18:03	1.7K	
GCF 000871845.1 ViralProj20183 genomic.gtf.gz	2022-08-16 01:30	567	
GCF 000871845.1 ViralProj20183 protein.faa.gz	2023-07-23 01:22	2.1K	
GCF 000871845.1 ViralProj20183 protein.gpff.gz	2023-07-23 01:22	4.6K	
GCF 000871845.1 ViralProj20183 rna from genomic.fna.gz	2019-12-18 09:52	407	
GCF 000871845.1 ViralProj20183 translated cds.faa.gz	2019-12-18 09:52	2.2K	
README.txt	2024-08-27 13:56	55K	
annotation hashes.txt	2024-02-25 03:26	410	
assembly status.txt	2024-11-24 08:00	14	
md5checksums.txt	2024-09-03 06:32	1.1K	
uncompressed checksums.txt	2024-08-26 16:58	789	

HHS Vulnerability Disclosure

- 4. From this list we need the genomic fina file, the genomic gff file, so hover over the hyperlinks and copy the link addresses. The links will look something like this
 - a. https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/871/845/GCF_000871845.1_ViralProj20183/GCF_000871845.1_ViralProj20183_genomic.fna.gz
 - b. https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/871/845/GCF_000871845.1_V iralProj20183/GCF_000871845.1_ViralProj20183_genomic.gff.gz

These are the exact links we used:

Dengue Type 1

- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/862/125/GCF_000862125.1_ViralProj 15306/GCF_000862125.1_ViralProj15306_genomic.fna.gz
- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/862/125/GCF_000862125.1_ViralProj 15306/GCF_000862125.1_ViralProj15306_genomic.gff.gz

Dengue Type 2

- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/871/845/GCF_000871845.1_ViralProj 20183/GCF_000871845.1_ViralProj20183_genomic.fna.gz
- $\bullet \quad https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/000/871/845/GCF_000871845.1_ViralProj\\ 20183/GCF_000871845.1_ViralProj20183_genomic.gff.gz$

Dengue Type 3

- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCA/031/099/465/GCA_031099465.1_ASM31 09946v1/GCA_031099465.1_ASM3109946v1_genomic.fna.gz
- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCA/031/099/465/GCA_031099465.1_ASM31 09946v1/GCA 031099465.1 ASM3109946v1 genomic.gff.gz

Dengue Type 4

- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/004/786/575/GCF_004786575.1_ASM478 657v1/GCF 004786575.1 ASM478657v1 genomic.fna.gz
- https://ftp.ncbi.nlm.nih.gov/genomes/all/GCF/004/786/575/GCF_004786575.1_ASM478 657v1/GCF_004786575.1_ASM478657v1_genomic.gff.gz