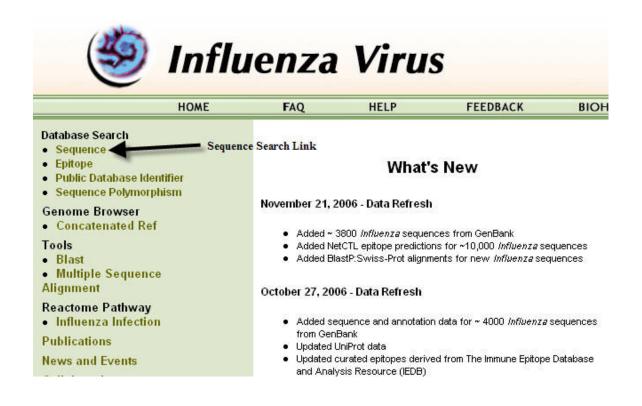
# Influenza Sequence Search

To get to the Influenza home page click the Influenza Virus link in the organism section of the home page.



Click on the Sequence search link in the left side of the navigation bar.



## **Gene Search Options:**

- 1. Sequence Type
- 2. Sequence Status
- 3. Organism (e.g. Influenza A Virus)
- 4. Host: Viral natural host (e.g. Human)
- 5. Geographic Location (A list of locations where viruses were isolated e.g. China)
- 6. Subtype (e.g. H9N2)
- 7. Segment (e.g. 5)
- 8. From Year/To Year (A range of years viruses were isolated e.g. 1999 through 2005)

# Sequence Search

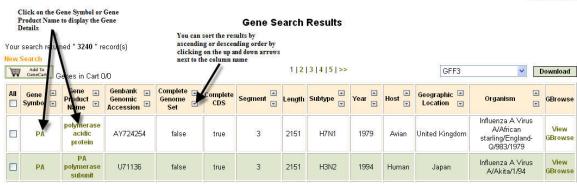
Text search of genes in BioHealthBase. To refine your search, specify as many fields as possible. ? Sequence Type: Gene Sequence Status: To Specify Sequence Type, Sequence Both Status, Organism and Geographic Location click on the drop down menu Search By Organism: Influenza A Virus Host: All Geographic Location: All Subtype: eg: H1N1 (Leave blank to view genes from all subtypes) Segment: All Enter Subtype in the text field 1 PB2 2 PB1 3 PA Select Segment from the 4 HA list provided. Use Ctrl click 5 NP or Shift click to select 6 NA multiple segements. 7 MP From Year: eg. 1999 To Year: eg. 2005 Min Gene Length: Go Clear

To refine your search populate as many fields as possible.

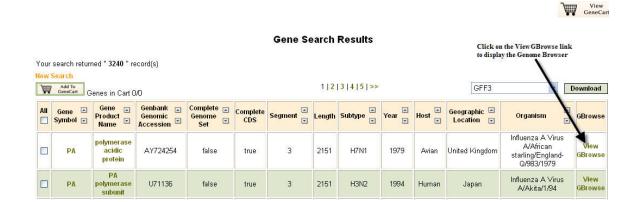
## **Gene Search Results**

This screen displays specific information for one or more genes which matched the search criteria. The user has the following options:



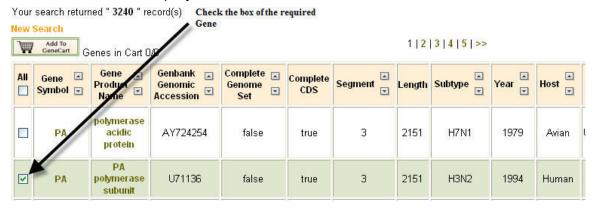


# Click the View GBrowse to display the Genome Browser

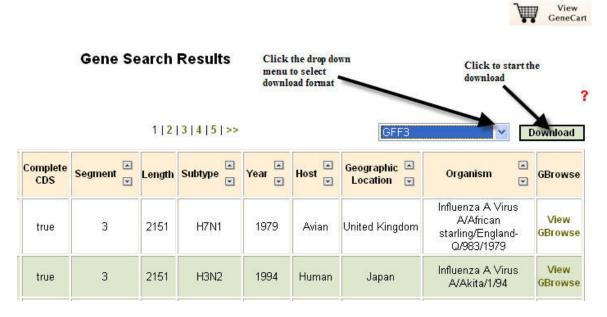


## **How To Download/Save Gene Information**

 Check the box which corresponds to the desired gene(s) - Check All to select all items displayed on the screen



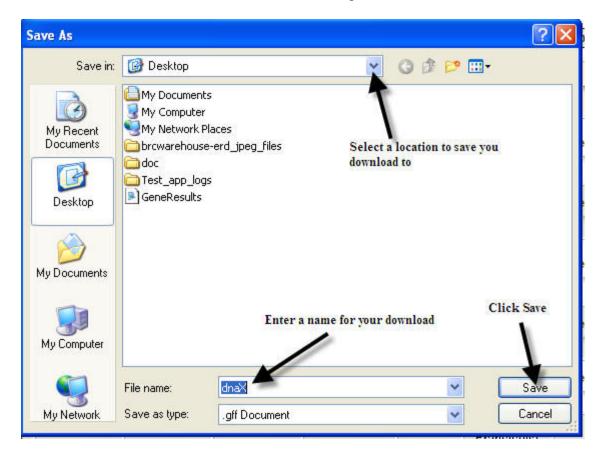
- Select a download type from the Download list GFF3, Gene in FASTA, CDS in FASTA, Protein in FASTA or Tab Delimited Text File. More information about these formats is below.
- Click the Download button



Click the Save button on the File Download pop-up message



- Select a location on your hard drive to save the file give the file a more meaningful name
- Click the Save button on the Save As dialog box

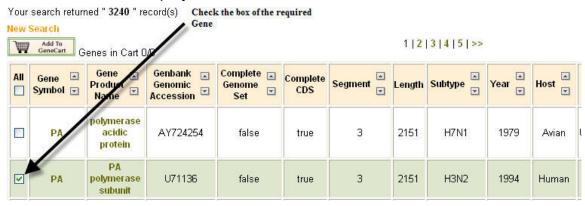


Download/Save selected gene information in the following formats:

- General Feature Format (GFF3) A format for describing genes and other features associated with DNA, RNA, and Protein sequences
- Fast All (FASTA) A format which facilitates the comparison of a nucleotide database or an amino acid sequence against a protein sequence database (see Blast)
- Tab Delimited A text format that uses the tab character as separators between fields

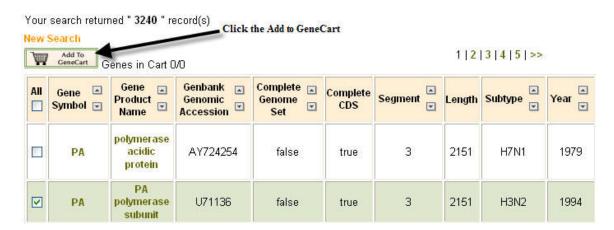
### How to Add to Gene Cart

 Check the box which corresponds to the desired gene(s) - Check All to select all items displayed on the screen

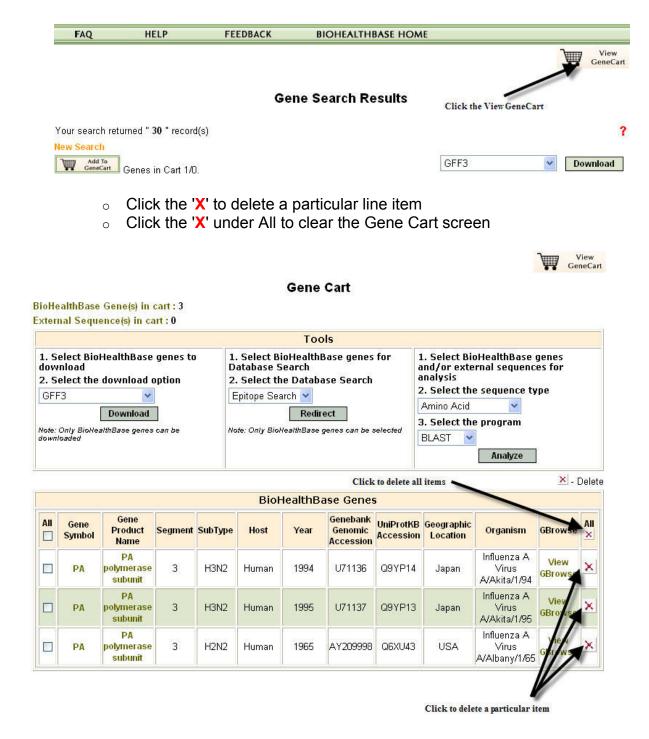


Click the Add to Gene Cart button

#### **Gene Search Results**



Click the View Gene Cart button to view selections



#### \*Note:

- Bacteria genes will not be visible from within the Influenza screens
- Clicking the All box selects all of the genes, but does not display checks in the corresponding boxes

#### Hints:

- Clicking the All box selects all of the genes displayed on the screen, not all of the genes returned from the search
- Download Functionality is available from the Gene Cart screen also
  It may be necessary to select a program in order to Open (rather than Save) the selected gene information file, in which case any text editor program will work