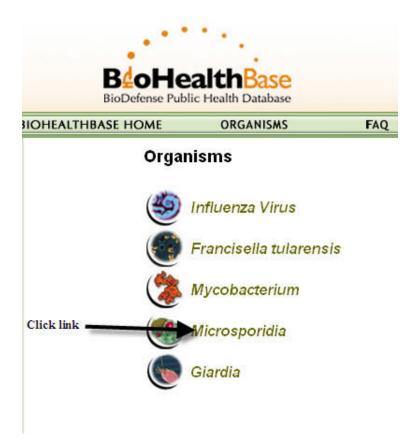
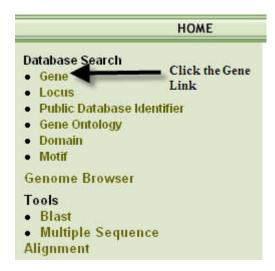
# Microsporidia Gene Search

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



Click on the Gene link in the left toolbar to go to the Gene Search Page.



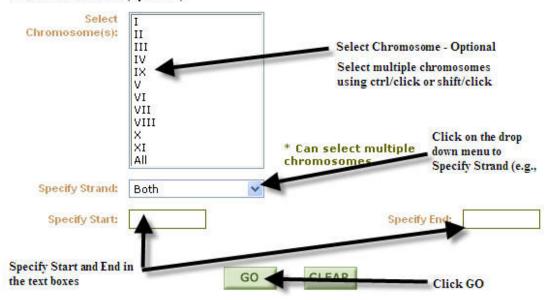
# **Gene Search Options:**

Organism (e.g. Encephalitozoon cuniculi GB-M1) - *pre-selected* Gene Product Name (e.g. kinase)

genes. ?		
Specify Organism:	Encephalitozoon cuni	culi GB-M1
Gene Product Name		Enter search term in text field
Hame	Example: pyruvate kina	ase
Genomic location	(optional)	
Select	Ī	
Chromosome(s):	II	
	III	
	IV IX	
	v	
	VI	
	VII	
	X	
	ΧI	* Can select multiple
	All	chromosomes
Specify Strand:	Both	
Specify Start:		Specify End:

Genomic Location - *optional* Chromosome (e.g. VI) Strand (e.g. Forward) Start (e.g. 900000) End (e.g. 920000)

### Genomic location (optional)



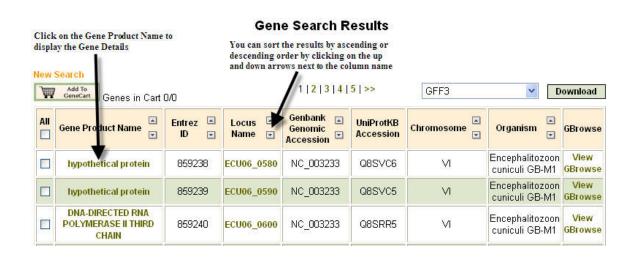
#### **Hints:**

- Multiple chromosomes can be selected by utilizing the Ctrl/Click or Shift/Click functionality
- If no genomic location is selected, the default is <u>all</u> chromosomes and <u>all</u> locations
- Complete gene product name <u>is not</u> required for the Gene Product Name search (e.g. kinase will return all gene product names which contain the word "kinase")

# **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 Gene Product Name to display the Gene Details screen



# Click the View GBrowse to display the **Genome Browser**

#### **Gene Search Results**

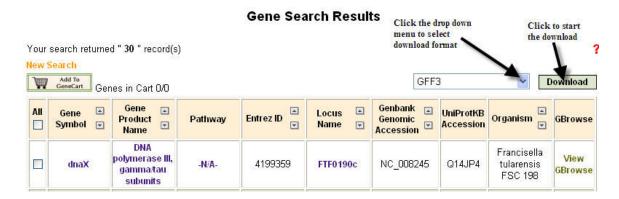


## **How To Download/Save Gene Information**

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



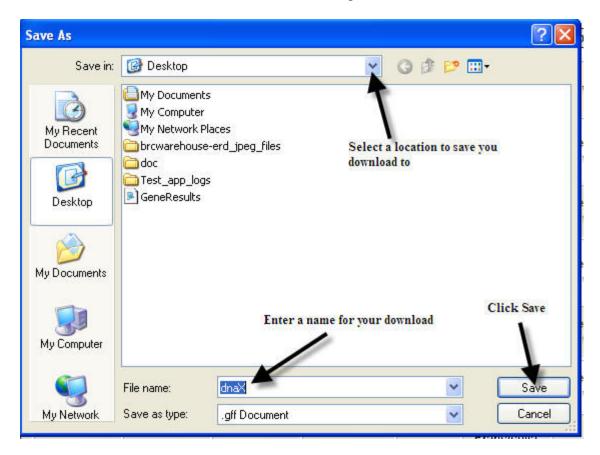
- Select a download type from the Download list GFF3, Gene in FASTA, CDS in FASTA, Protein in FASTA or Tab Delimited Text File. More information about these formats is below.
- Click the Download button



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

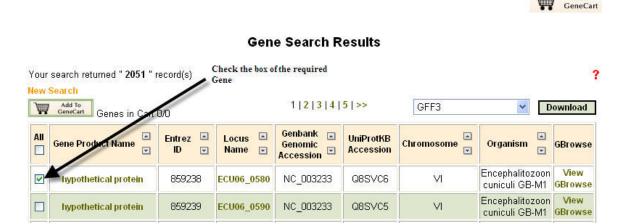


Download/Save selected gene information in the following formats:

- 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 <u>Blast</u>)
- 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



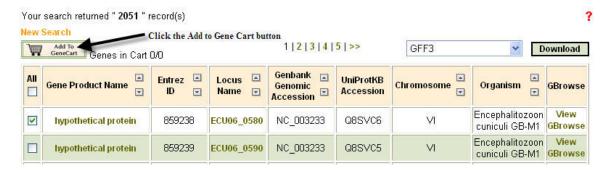
Click the Add to Gene Cart button



View

View

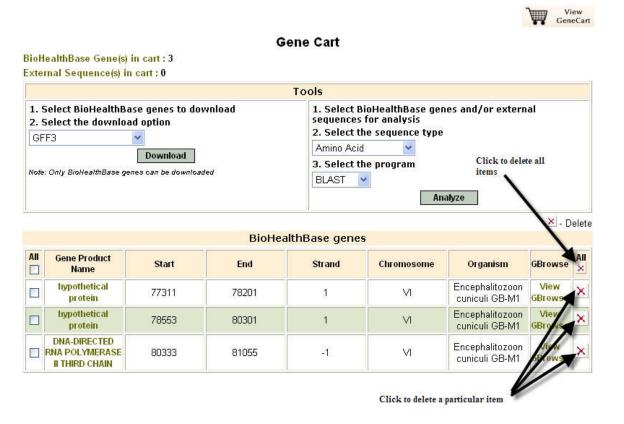
#### **Gene Search Results**



Click the View Gene Cart button to view selections



- Click the 'X' to delete a particular line item
- Click the 'X' under All to clear the Gene Cart screen



#### \*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 wor