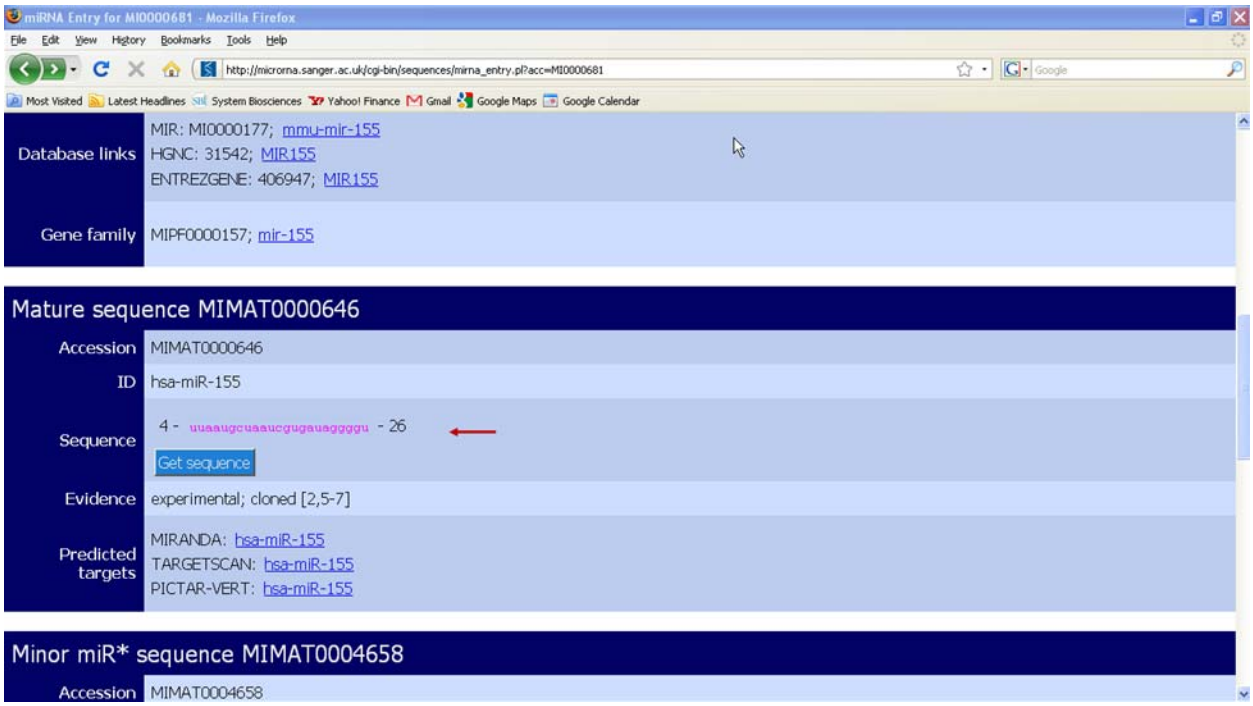
Searching for homology to mature human microRNA

1. **Visit miRBase at: http://microrna.sanger.ac.uk/sequences/**
2. **Click on the Search tab at the top of the page:**

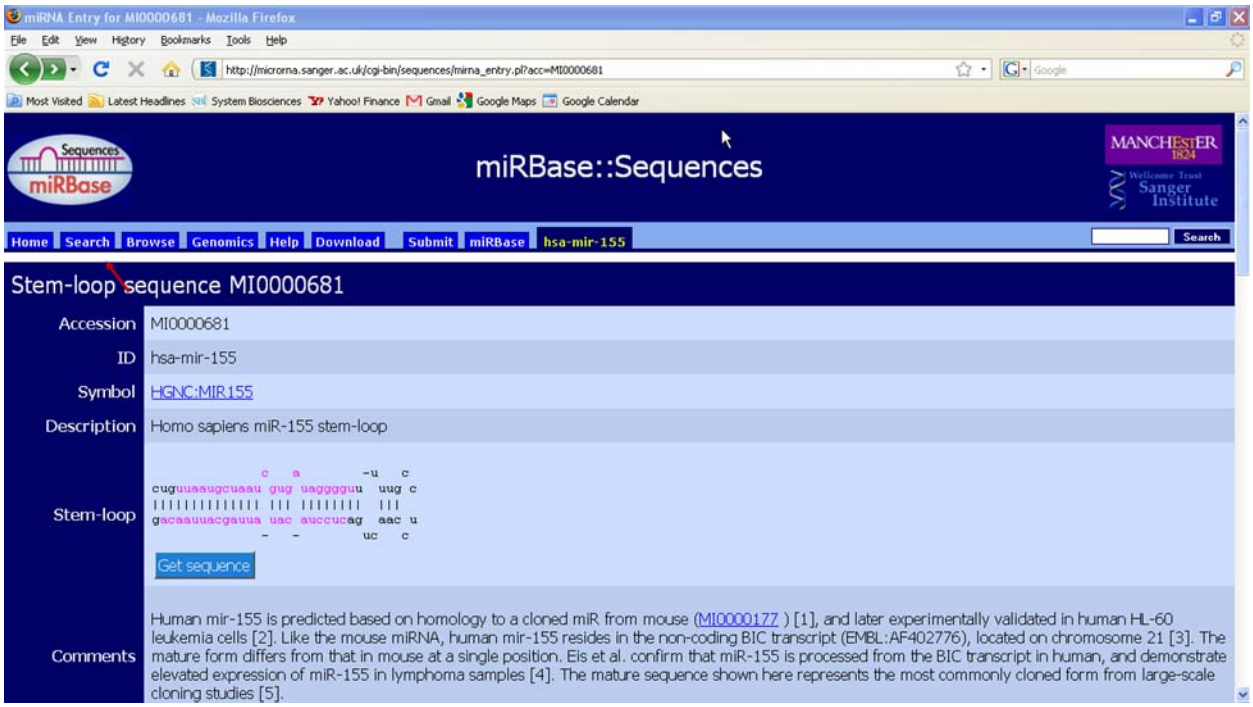
3. **Enter the microRNA of interest and click Submit [be sure to use the following format: xxx-miR-nnn; where xxx is species (hsa for human (Homo sapiens), mmu for mouse, rno for rat, ggo for gorilla, etc) and nnn is the microRNA of interest]:**

4. **Once the microRNA page has loaded, scroll down to the Mature Sequence section:**

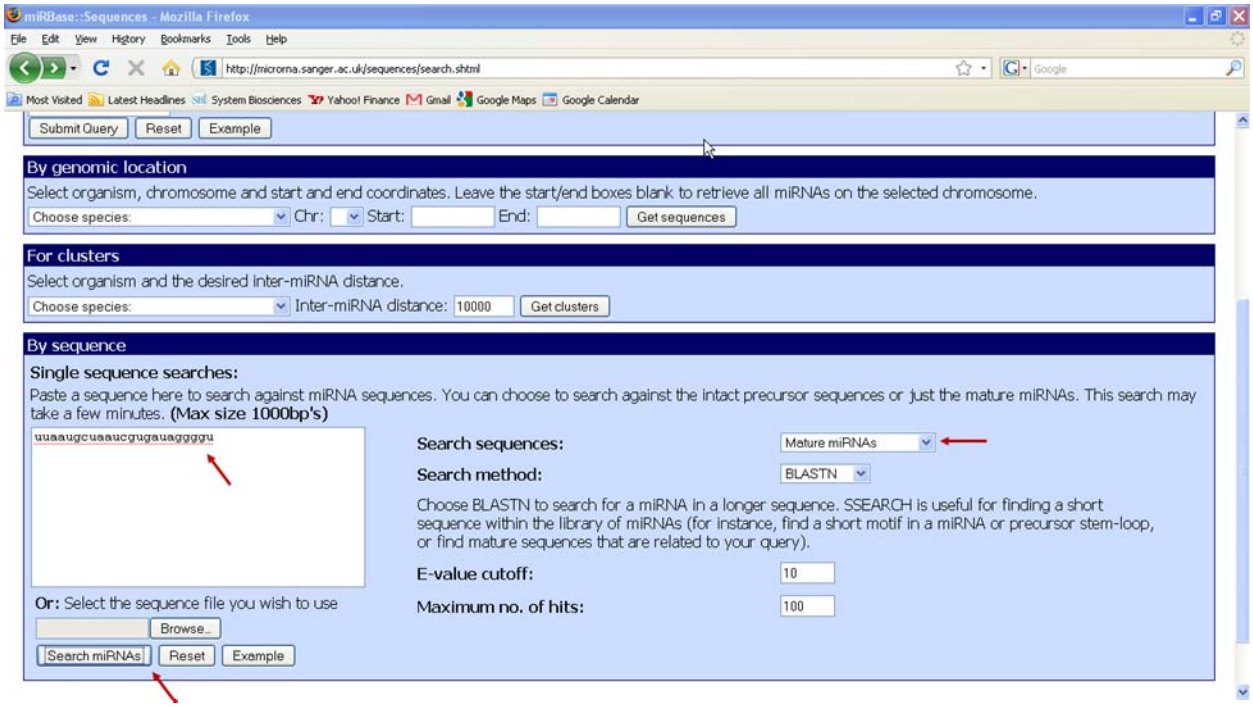


5. **Copy the mature sequence.**

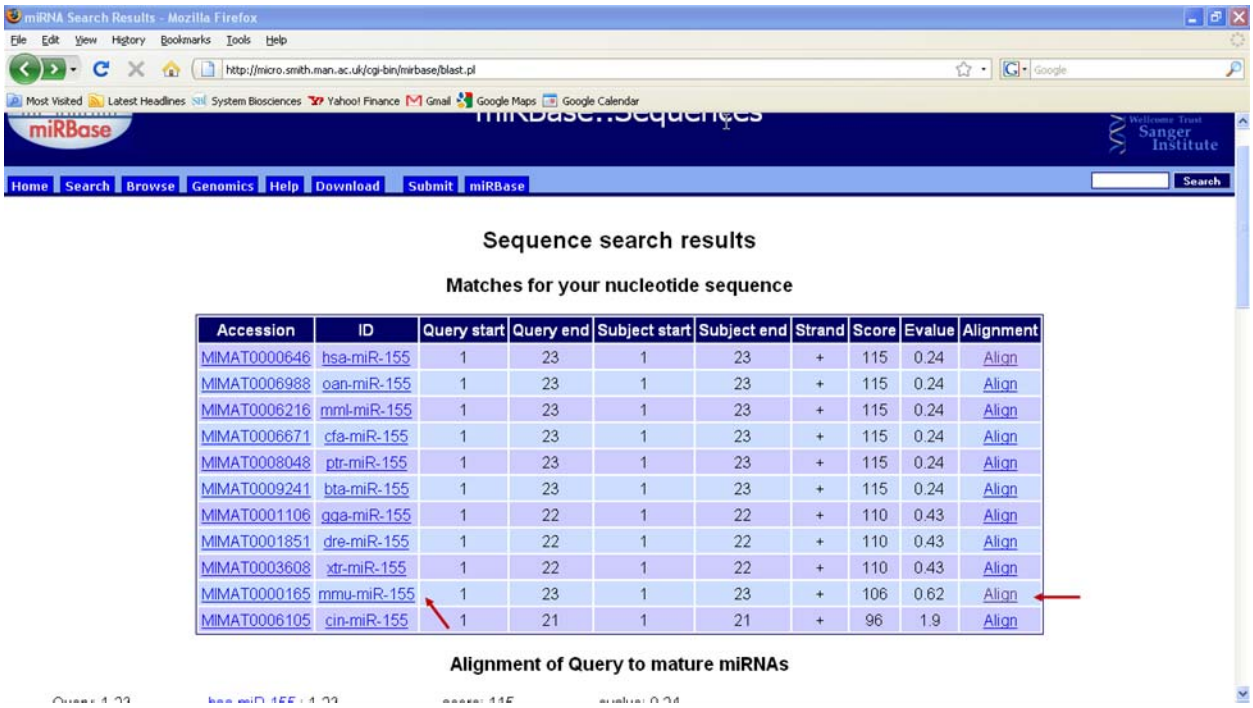
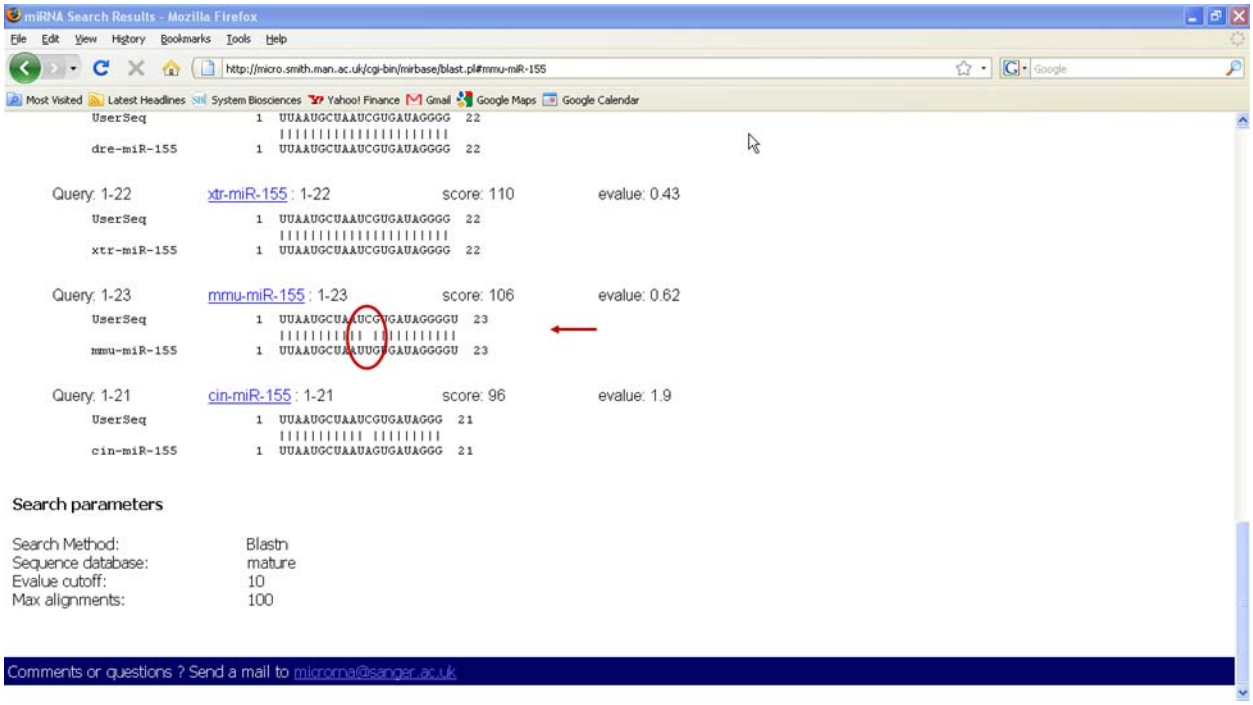
6. Click on Search at the top of the page again:



7. **Scroll down to the By Sequence section and paste the mature human sequence.**
8. **Once it is pasted, be sure to set the Search Sequences to Mature miRNAs, then click Search miRNAs.**



9. **From the results page, click Align for the species of interest (mouse in this example):**



10. **In this particular example, it appears as if the mature sequence of the human miR-155 and mouse miR-155 differ by 1 nucleotide.**