

**Gene Annotation Project
Practice Evidence Page**

Each letter corresponds to the same letter in Activity I

Part 1.

- A. Paste screen capture of directory: drosophila_erecta/dot_chromosome.
- B. Paste screen capture of D. erecta Genome Browser Gateway with selected contig showing in the search or position search window.
- C. Paste screen capture of Genome Browser showing BLASTX Alignment and gene models.
List the BLASTX Alignment proteins [proteins in black boxes] that are very similar to D. melanogaster proteins:
List the protein [which also the name of the gene] that you have selected to annotate: [Note, you will need this information for part F.]
- D. Paste screen capture of Genome Browser DNA. Paste a screen capture that shows part of the DNA sequence.
- E. Paste screen capture of BLASTX page with sequence entered in query box.
- F. Paste screen capture of Gene Record Finder that shows the gene details and mRNA details of your selected gene.
- G. Paste screen capture of Gene Record Finder of the polypeptide details of your selected gene.
List the isoforms found for your gene [found in the left hand column]:
- H. Paste screen capture of the amino acid sequence of exon 1.
- I. Paste screen capture of the BLASTX page that has the Query nucleotide sequence [top window] and the Subject amino acid sequence [bottom window].
- J. Paste screen capture of the BLASTX results that shows the Graphic Summary.
- K. Paste screen capture of the Alignments section of the BLASTX results that shows a block with an acceptable E value [and the amino acid sequence of exon 1 of the first isoform for your gene.

Part II.

Prepare a comparable list of instructions for Activity II.