

GEP Student Project Report Format

Prepare Report as a Powerpoint Presentation.

Slide 1. Title slide

Title: Gene Annotation of pan RJ gene of Contig 36 of the D. erecta dot chromosome.

Group names

Slide 2.

Abstract—Summarize results in your own words! Prepare this slide last!

Slide 3.

Screen capture of USCS Genome Browser at Washington University on D. erecta Aug 2006 [see Part C of Annotation Practice].

Slide 4.

Screen capture partial sequence of contig36

Slide 5.

Screen capture from Gene Report of panRJ amino acid sequences of exon 16 & 17

Slide 6-7

Screen captures of BLASTx Alignments report exons 16 & 17

Slides 8-9

Identify key features [e.g., reading frame, start position coordinate, amino acid sequence, etc.] of alignment reports for exons 16 & 17

Slides 10, 11, 12, 13

Genome Browser screen capture showing reading frame, beginning and last nucleotide position of exons 16 and 17 panRJ gene; identify GT...AG intron sequences by screen capture and/or text boxes—use more slides if needed].

Slide 14

Completed Exon Phase Score Box.

Instructor Answer Page

Results: Exon Phase Score Box for Exons 16 & 17 of panRJ isoform

Exon Number	AG Nucleotide Position	Beginning Nucleotide Position of Exon (Phase)	Ending Nucleotide Position of Exon (phase)	GT Nucleotide Positions
16	NA for first exon in gene	36856 (0)	34785 (2) i.e., two bases of three needed to complete a codon	34784, 33783
17	33467, 33466	33465 (1); first base in codon, i.e., completes phase	33273 (0) i.e., no nucleotides needed to complete next codon	33274, 33271

[[Category:Faculty Resources]]