University of Pennsylvania

BIOL4536 Fall 2023

Professor: Gregory R. Grant QUIZ#2 (SOLUTIONS)

(Genome Browser)

Question 1. (2 pts.) The first nucleotide base (position #1) of Human Chromosome 1 in the genome browser is:

- (A) A
- (B) C
- (C) G
- (D) T
- (E) $N \leftarrow THIS ONE$

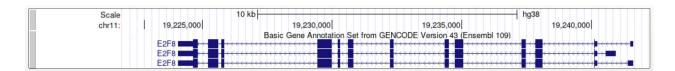
Question 2. (2 pts.) True or False. Exons tend to be larger than introns.

ANSWER: False.

Question 3. (2 pts.) You want to make a custom track on chr12 from position 12,000,000 to 12,001,000. What exactly do you enter in the custom track box?

Answer: chr12 11999999 12001000

Question 4. (2 pts.) For the gene shown below, circle the one statement that is true?



- (A) There are no introns in any UTR's of any isoforms.
- (B) There are introns every UTR of every isoform.
- (C) There are introns in the 3' UTR's of all isoforms but not in the 5' UTR's of any isoforms.
- (D) There are introns in the 5' UTR's of all isoforms but not in the 3' UTR's of any isoforms. \leftarrow **THIS ONE**

Question 5. (2 pts.) (circle the one true statement) The Table Browser is used to:

- (A) Configure the display parameters, window, font, track sizes, colors, etc.
- (B) Obtain/download the data behind the tracks. ← THIS ONE
- (C) For developers to configure a new genome.
- (D) Configure the tracks and save sessions.