Genome Assignment

1. Chromosome 3
2. 1900 genes,
3. approx. 200 million base pairs
4. MLH
5. Repair mistakes in gene replication in the colon
6. Homo sapiens CFTR promoter region (LOC111674463) on chromosome
7. Protein
8. transmembrane conductance regulator
9. Cystic fibrosis
10. Chromosome 7
11. Pan paniscus
12. pygmy chimpanzee
13. No, chimpanzees are closely related to homo sapiens
14. Sapajus apella. tufted capuchin. Primate
15. 19
16. Mutations, insertions, or deletions
17. Mus musculus TAR DNA binding protein (Tardbp), transcript variant 1, mRNA.
18. Homo sapiens ubiquilin 2 (UBQLN2), mRNA.
19. FUS RNA binding protein
20. Homo sapiens superoxide dismutase-1
21. Amyotrophic Lateral Sclerosis
22. Open access, publicly available nucleotide sequences and the proteins they transcribe
23. Copy DNA or complementary DNA
    a. Reverse transcription from a single RNA strand
24. Homo sapiens partial HBB gene for hemoglobin beta chain, exon 1
25. A portion of DNA molecule that has no codons when translated
26. Start codon
27. 61 because it is in the middle of the sequence
28. Yes
29. 361 19- G for sequence 1 and R for sequence 2 781 3- deletion in sequence 1
30. Binds acidic and basic fibroblast growth hormones for bone development and maintenance
31. Craniosynostosis and multiple types of skeletal dysplasia.
32. Yes, I learned how many genes are on chromosome 3. I did not know chromosomes had so many genes on them.