Home assignment 2

Lamin A/C Gene that causes Hutchinson-Gilford progeria syndrome, often called the "Benjamin Button disease."

1. **Selected any protein of Interest and give the name and then select any interesting structure from the result then do the following.**

    a. What is the selected PDB ID?
        i. **7D9N | pdb_00007d9n**

    b. What is the full name of the protein?
        i. **Crystal structure of a non-canonic progeria mutation S143F at lamin A/C and its structural implication to the premature aging**

    c. Find the Length of its Sequence.
        i. **204**

    d. Find any two positions of Ramachandran outliers.
        i. **0**

    e. Find the superfamily of the protein based on SCOP classification.
        i. **Intermediate filament protein (Filament)**

    f. Find the experimental method for this structure.
        i. **X-RAY DIFFRACTION**

    g. Find the Genome location (if available)
        i. **Homo sapiens isolate CHM13 chromosome 1, alternate assembly T2T-CHM13v2.0**