

Using the information provided write a script to get retrieve the following information.

1. Get all possible reading frames for the sequence given.
2. Which reading frame is responsible for getting the protein sequence ?
3. What is the protein sequence generated from the above reading frame ?
4. Using the rules given in the Rules_primer.doc design 3 sets of primers for amplification of sequence to be cloned into Pichia Pastoris.
5. What nucleotide sequence will you use to clone given sequence in the following hosts for large therapeutic applications.
 - a) E.Coli.
 - b) Pichia Pastoris.
 - c) HEK293 Cell line.