## Task3:

CENP-B is a centromeric DNA binding protein that recognizes and binds to a specific 17bp motif. Use alpha fold to determine which of the DNA sequences below has the CENP-B binding motif.

## >CENP-B

MGPKRRQLTFREKSRIIQEVEENPDLRKGEIARRFNIPPSTLSTILKNKRAILASERKYGVASTCRK TNKLSPYDKLEGLLIAWFQQIRAAGLPVKGIILKEKALRIAEELGMDDFTASNGWLDRFRRRRS

>DNA1 GCCTTCGTTGGAAACGGGATT

>DNA1
AATCCCGTTTCCAACGAAGGC

>DNA2 cactgctcacttgcataccAT

>DNA2 ATggtatgcaagtgagcagtg

Do the same for Evi1 protein.

## > Evi1 protein

MAPDIHEERQHRCEDCDQLFESKAELADHQKFPCSTPHSAFSMVEEDLQQNLESESDLREIH GNQDCKECDRVFPDLQSLEKHMLSHTEEREYKCDQCPKAFNWKSNLIRHQMSHDSGKHYE CENCAKVFTDPSNLQRHIRSQHVGARAHACPECGKTFATSSGLKQHKHIHSSVKPFISFSQSM YPFPDRDLRSLPLKMEPQSPSEVKKLQKGSSESPFDLTTKRKDEKPLTSGPSKPSGTPATSQDQ PLDLSMGSRGRASGTKLTEPRKNHVFGEKKGSNMDTRPSSDGSLQHARPTPFFMDPIYRVEKR KLTDPLEALKEKYLRPSPGFLFHPQMSAIENMAEKLESFSALKPEASELLQSVPSMFSFRAPPNT LPENLLRKGKERYTCRYCGKIFPRSANLTRHLRTHTGEQPYRCKYCDRSFSISSNLQRHVRNIH NKEKPFKCHLCDRCFGQQTNLDRHLKKHENGNMSGTATSSPHSELESAGAILDDKEDAYFTEI RNFIGNSNHGSQSPRNMEERMNGSHFKDKKALATSQNSDLLDDEEVEDEVLLDEEDEDNDI PGKPRKELGVTRLDEEIPEDDYEEAGALEMSCKASPVRHML

>DNA1 ATCGCAGATAAGATAACATAGC

>DNA1 GCTATGTTATCTTATCTGCGAT

>DNA2

>DNA2