## **Assignment 1: Bio-centric**

By running BLAST nucleotide to protein sequence :
Get the FASTA complete sequence of
cyclic AMP-dependent transcription factor ATF-2 isoform 1 [Homo
sapiens]

>XP\_006742185.1 cyclic AMP-dependent transcription factor ATF-2 isoform X1 [Leptonychotes weddellii]

MKFKLHVNSARQYKDLWNMSDDKPFLCTAPGCGQRFTNEDHLAVHKHKHEM TLKFGPARNDSVIVADQTPTPTRFLKNCE

EVGLFNELASPFENEFKKASEDDIKKMPLDLSPLATPIIRSKIEEPSVVETTHQD SPLPHPESTTSDEKEVPLAQTAQPT

SAIVRPASLQVPNVLLTSSDSSVIIQQAVPSPTSSTVITQAPSSNRPIVPVPGPF PLLLHLPNGQTMPVAIPASITSSNV

HVPAAVPLVRPVTMVPSVPGIPGPSSPQPVQSEAKMRLKAALTQQHPPVTNG DTVKGHGSGLVRTQSEESRPQSLQQPAT

STTETPASPAHTTPQTQNTSGRRRRAANEDPDEKRRKFLERNRAAASRCRQK RKVWVQSLEKKAEDLSSLNGQLQSEVTL

LRNEVAQLKQLLLAHKDCPVTAMQKKSGYHTADKDDSSEDLSVPSSPHTEAIQ HSSVSTSNGVSSTSKAEAVATSVLTQM ADQSTEPALSQIAMAPASQSQPSGS

Now, classify the protein sequence by using InterProScan and the results are:

1st protein: MKFKLHVNSA 2nd protein: RQYKDLWNMS

Last protein: **QPSGS** 

So, the N-terminal domain is: MKFKLHVNSA And C-terminal domain is: QPSGS