

Original TS hexamer-spacer-hexamer sequences

Create extended5_sequences:

A file where each original TS sequence has been extended by 5 nts on each side

durahmmer creates a duration HMM from TS sequences

hmmsearch identifies highest scoring instance of duration HMM in extended5_sequences

For each sequence in TS:

If highest scoring instance \neq TS sequence, TS sequence is replaced by highest scoring sequence

Duration HMM

HMM_SCORE, START & END for any 32-mer

Repeat until stable