

Supplementary Iie: Context dependent prediction in DNA sequence using neural networks. Fouriers, human genome, Markov and $k = 5$ central model (chr22); mouseLSTM50 (chr20).

Christian Grønbaek, Yuhu Liang, Desmond Elliott, and Anders Krogh

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Fouriers plots, predictions on chromosome 22

Markov model

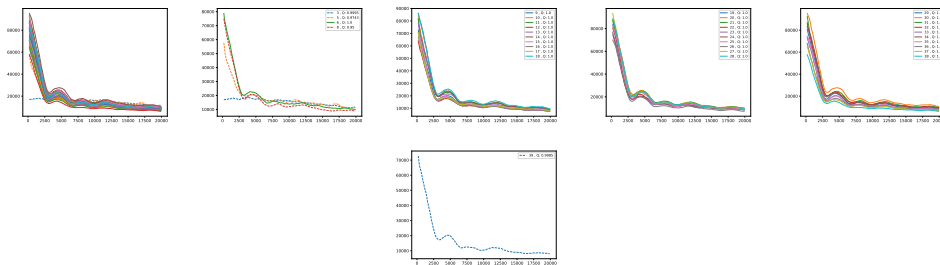


Figure SB1: Markov model, $k=14$. Fouriers on reference-base probability for chromosome: hg38_chr22. The genome string is divided in adjacent segments of 1Mb; several adjacent segments are covered in each plot, segment numbers are indicated in the legend. First plot (upper left) shows the results for all segments in this chromosome.

$k = 5$ central model

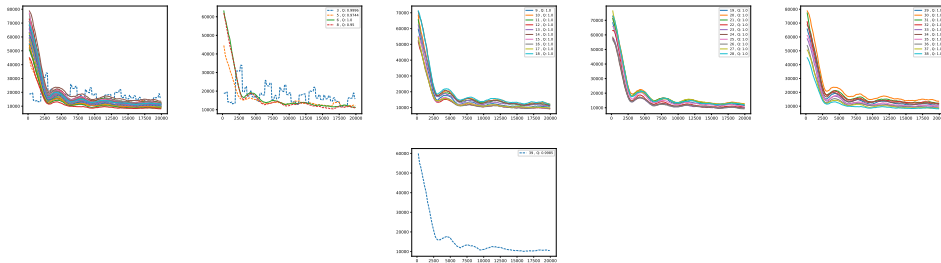


Figure SB2: 5-mer model. Fouriers on reference-base probability for chromosome: hg38_chr22. The genome string is divided in adjacent segments of 1Mb; several adjacent segments are covered in each plot, segment numbers are indicated in the legend. First plot (upper left) shows the results for all segments in this chromosome.

LSTM200

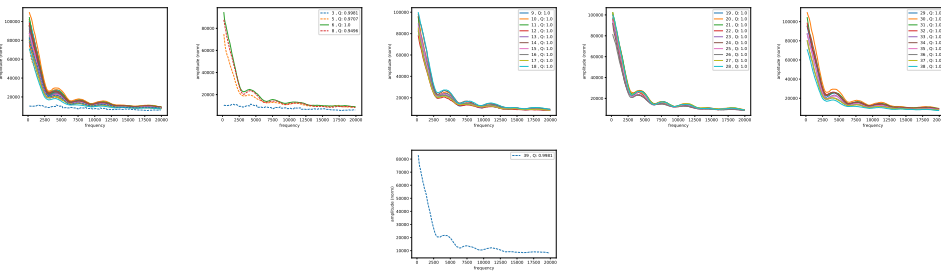


Figure SB3: LSTM200. Fouriers on reference-base probability for chromosome: hg38_chr22. The genome string is divided in adjacent segments of 1Mb; several adjacent segments are covered in each plot, segment numbers are indicated in the legend. First plot (upper left) shows the results for all segments in this chromosome.

