Homework #2: Gene Prediction

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November 15, 2012

1 Introduction

In the second homework we analyse the genomic sequence of *Paramecium tetraurelia*.

2 Data

Data was obtained from GenBank $Nucleotide\ NC_006058.1$. This time we were interested in protein coding genes. In the GenBank database this relates to CDS feature type.

3 Methods

4 Results

4.1 Detecting open reading frames (ORFs)

5081 ORFs code for at least 60 amino acids.

4.2 Precision and recall

4.3 Precision and recall for 125 codons or more

0.1026 precision, 0.4017 recall

Honor Code

My answers to homework are my own work. I did not make solutions or code available to anyone else. I did not engage in any other activities that will dishonestly improve my results or dishonestly improve/hurt the results of others.

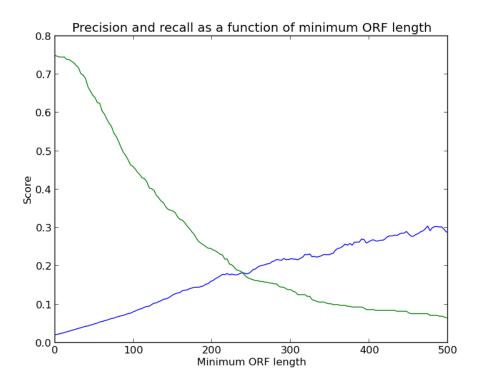


Figure 1: Blue line = precision. Green line = recall.