### Synthetic Data Scenario

# maxlen <- 10 kbp

# gene1 <- 600 bp

# gene2 <- 900 bp

# Group1: target, both genes present at random location, 10000

# Group2: samples for each of the following, 10000

# a. none of the genes present, 4000

# b. one of the genes present, 3000

# c. 1 to 2 broken genes present (adversarial cases), 3000

seq.len = 1000

20%: 0.1 max.pred

50%: 0.65 max.pred