

a)

S1

C C G C G G C G T C C G C C C A G T C

S2

C T C G C A G G G T A G C G T C G A G

S3

C G G G A G C G T G C T G G C C C A T

S4

C G G G C T G G C A G C C G C A C A A

S5

A T T C G C T G T A G C C G C C A C T

b)

Ancestral
nodes