

Fig. 19. Classic attenuation regulation of gene *hisS* in: a)  $\alpha$ -proteobacteria, b) Thermotogae. Designations as in Figure 4.

a) *hisS*:

CC  
\*\*\*AUGACCCGCACGCCGCACCAUCACGGCCACCACCACCAUCCGACCUCGCCUCGCGGGAUCGGCCGGGUCCGCGCGCUCUAAAGCCGAGCGUACCCAGCCAGAGCCCGCCUAGCGGAUGGGGCUUAAGUGCAAGCGCCAUCCGUCGAAGCCUAGAAGCCUU  
Caul  
\*\*\*AUGACCCGCACGCCGCACCAUCACGGCCACCACCACCAUCCGACCUCGCCUCGCGGGAUCGGCCGGGUCCGCGCGCUCUAAAGCCGAGCGUACCCAGCCAGAGCCCGCCUAGCGGAUGGGGCUUAAGUGCAAGCGCCAUCCGUCGAAGCCUAGAAGCCUU  
HNE  
\*\*\*\*\*AUGAACACCGCGCUGCAUCUCACCACCAUCACGCAUGA\*\*\*\*\*CGCGCCGAAGAGGCGCGAACCGGUCCGCGCUGCGCCUCUGACAAGUGUCCUUC\*\*\*\*\*

b) *hisS*:

TM  
\*\*\*\*\*AUGUUUUUCGGUGAACACCACCAUCAUUGCUACGGCCCGCGGUUUCUCCACC~~GGGUGUGUGAUGGUGGGAGAU~~CGC\*\*\*\*\*ACGGGCCACGUCGAGAAGACGUGGCCUUUUUGUUUAUCGAAUAAAACCGCAAAGAAGACACCAUUU