

Fig. 7. Classic attenuation regulation: a) *thrA* gene in α -proteobacteria, b) *thrA* and *thrS* genes in δ -proteobacteria. Designations as in Figure 4, alignment is absent. Paralogs of *thrS* designated as numbers. In *Bdellovibrio bacteriovorus* (Bb *thrS*1) the antiterminator (double underlined) does not fully overlap with the terminator and requires a co-antiterminator (single underlined). Antiterminator and co-terminator (in blue) do not coexist.

a) *thrA*:
 OM2255
 AUGAUUUAUUUACCACCCUUGUCAGGGCGGACGUUGGUUAGUGCAUGUUCACAAAUCAUCUGAAGCCCGCUAAAGUAGCGGGCUUUUUUGUUUUACCAGUAUCAUUUUUUCGAACUAGGAGUUCAC

b) *thrA*, *thrS*:
 MXAN_ThrA
 GUGCUGACCACCACCACGACCACGACGACUCCCCGCCGGGCGCGGGUGGUCUAGCGACGGAACCACCUUGGUUCCAGCUCGGCCCCGCGCUCUCCGCGCGGGGCUUUUUUGUUUCACAUGCCGCAGGAGCCCCGACAUGCAGCCUCCUCGCAGUCG

Bd_thrS1
 AUGAAUUUGAUUACGACAGAAUUUAAAACAAGAAGUUUGCAGAGCUCUCUUGCGAAGUCUGCAACGACAAAACUAGACGGCGCACUUAAGCGACGCUAGAAUUUAACUUAAAAUACUCCGGCGAAGCCGGAGUGUAAGCCAGUGGAGGUUUACAUUAGCAAGUUUGAA

MXAN_thrS1
 GUGAGCUUCGUCAUCACCACCACGACCACCGGCACCACGACUCGCUUCGCGGGCGUGGAACCGUGCGCGUCACGUGGUGAGCUGACGAACGCACGGUUCCCUGCCCCGCCUUCUCCGGCCGGGGCAACCGUGCGCUCGCUCAGCGCUCCGACCGGAUGGCGUUUCAC

STIAU_thrS1
 ACCAGCAUGAAGUUCAGCCAGCUCACGACUCGCACGACCACUCCCCGCACCGGCGGGCGAGCGGCUGUGCGCACGUAAGCUGAGCGCGCGGACACCGCAGCCCCGCCGGGACAUCCGGACUGGGGCGCACCGCGCGAAUUCGUUCACCCCCGCUCCGGAC

Bd_thrS2
 AUGAGCUUUGACCUGUCUUUCAGCCUCAUUCUUGUUUUCGCCACCCGGGCGACCACCCCGUAGGGGUCUAUAAUCUAUGGCCGCCCAACUGGCGGCCCCGACGCAUUUUUCCAUAUUUUUAUAAAAUUUAAGAUCGCUGAAGCGGAGAGAGAUUUUU