

Fig. 17. Classic attenuation regulation: a) gene *trpE* in Bacteroidetes; b) gene *trpE* in Thermotogae. Designations as in Figure 4. Alignment not shown.

a) *trpE*:

BF  
**AUG**CAAGUAAAUAUAU**UGGUGGUGG**CGCCCGUUACAACUCCGACAGUCG**UAA**GGGAGCAGCGCUCGUAUGUAUAUACCUCAUAAAAGAUUAACAGAA\*\*\*\*\*UUU**AGAAAGAGCCUGUCGCA**A\*CC**UGCGACGGGGCUCUUUUU**UUUAA  
 BVU  
 \*\*\*\*\***AUG**GUAAAUAUAU**UGGUGG**CGUUUCUUACAACUAAAACAGUCG**UAA**GGGAACCAGACCAUGUAUAUAUACCUGACAUCUAAAAGGAUAUUC\*\*\*\*\*AAAC**GAAGGCCUGUCGUA**\*CC**UACGACAGGCCUUU**UUUCGUAG  
 FP  
 \*\*\*\*\***AUG**AACACAUUUUUAAAACAAUACU**UGGUGGUGG**AAUAAUUUACGUCACAAACGUCG**UGA**ACUAAUCCUCUAUAUUGUAUUUUAAAACU\*\*\*\*\*CAAAUAU**AAAAAGGCUUGUC**AAUCA\*\*\***C**GACAAGCCUUUUU**UUGUGCA**  
 Fjoh  
 \*\*\*\*\***AUG**AACAAUACU**UGGUGGUGG**AACAAUUUACGUCACAAACGUCG**UGA**ACGAAGCUUCCUAUGGUAUUUU\*\*\*\*\*CAAAACUAUAUAU**AAAAGGCUUGUC**AUCA\*\*\***C**GACAAGCCUUUUUUU\*\*\*\*\*  
 FB2170  
 \*\*\*\*\***AUG**AAAAACAGAACAAUAUAUA**UGGUGGUGG**AGUAACUUACGAAAACGUCG**UGA**GCAAAGCAUCAUUGUAGUAAA\*\*\*\*\*ACUAUAU**AAAAGGCUUGUC**UAUCA\*\*\***C**GACAAGCCUUUUUUAAUUAUA  
 FBBAL38  
 \*\*\*\*\***AUG**AUUUCAUUUUAAAACAAUACU**UGGUGGUGG**UCUAAACUUACGUCGAACUUCG**UGA**GCGAAUCCUGCUAUGUAUCA\*\*\*\*\*UUUAAAACCAAUAUA**AGAAAAGGCUUGUC**AAUCA\*\*\***C**GACAAGCCUUUUUUUAUUGCC  
 GFO  
 \*\*\*\*\***AUG**AAAAAAUAUA**UGGUGGUGG**AAUAAACUUACGUCACAAACUUCG**UGA**GCUAACUCGCUAUUUUCAUAUAAGAA\*\*\*\*\*AUU**AAAAGGCUUGUU**UCA\*\*\*\***C**GACAAGCCUUUUUUUAUUGCA  
 RB2501  
 \*\*\*\*\***AUG**AAAACAUGAUUACAACAAC**UGGUGGUGG**UAUUCUGAUCGCGGAACGUCG**UGA**CCUGAGCCCCCGUGUUGUCCACCAUA\*\*\*\*\*CCU**AGGCUUGUC**UGUCA\*\*\***C**GACAGGCCUUUUUUAAUUUUU  
 MED134  
 \*\*\*\*\***AUG**AAAAACAUAACAGUACAUAU**UGGUGGUGG**AUAUACAACAACUUGUCG**UAA**GCACGCACCUAUGUACCAUUAUAUA\*\*\*\*\*C**AGCCUGUC**UUUA\*\*\*\***C**GACAGGCCUUUUUUUUGUUCU  
 MED217  
 \*\*\*\*\***AUG**AAAAACAACAGUAAAUAU**UGGUGGUGG**AUCUCGCAACAG**UAA**UGUCGUGAAACAACCUUGUAUUUAAAUAUAUAAC\*\*\*\*\*U**GAAAGGCCUGUC**UCA\*\*\*\***C**GACAGGCCUUUUUUUGUUUCGC  
 P700755  
 \*\*\*\*\***AUG**CUUAAAACAUAACAUAU**UGGUGGUGG**UCUUUAUUACGUCACAAACGUCG**UGA**CUUAGAUCCUGCUAUGUAAAUAUAUCA\*\*\*\*\*U**AAAAGGCUUGUC**UAUCA\*\*\***C**GACAAGCCUUUUUUUCAUUUAU  
 MED152  
 \*\*\*\*\***AUG**AAAAACAGUAUAACAUAU**UGGUGGUGG**AACUCUCUUAAC**UAA**UAAGUGAGUUUAUACCUGUAUGUAAAUAUAU\*\*\*\*\*U**AAAAGGCUUAUC**UCA\*\*\*\***C**GAUAAGCCUUUUUUCAAUCAA  
 PI23P  
 \*\*\*\*\***AUG**AAAAUAUAACAACAUAU**UGGUGGUGG**AACUCUCUUAUAUCA**UAA**GUGAGAUGAAUCCUAUAUGUUUAUA\*\*\*\*\*CA**UAUAUAAAAAGGCUUAUC**UCA\*\*\*\***C**GAUAAGCCUUUUUUUAUAU  
 CHU  
 \*\*\***AUG**AAAAACAUAACAGGAACUAACAUAU**UGGUGGUGG**CGUGAAC**UAA**UCAGUUCGUGAACU**UGCUGCUGUGUCCUGUUUGA**\*\*\*\*\*AAUAUAUCA**AAAAGAGGCUUGUCU**\*\*UCA**CGGCAAGCCUCUUU**UAUUUAU  
 M23134  
**AUG**AUGAAAAAGUUUAUAUAUAACAAGAU**UGGUGGUGG**CACAAAAGAGAUCUCUCUUGUGAAU**AGCCCGUGUAUACGUG****UAA**AACUUUAUAACAUAAGAUUA**GCAAAAAGGCUUCCUGU**\*\*UCA**CAGGAAGCCUUUUUGC**GUUUUG  
 ALPR1  
 \*\*\*\*\***AUG**AAAAACAUCGCAAACAUAU**UGGUGGUGG**CAUUCUUUUCUCCAAAAGGA**GUU****UAGA**AAAGCCCGCAUAUAAAUAUUGCG\*\*\*\*\*UUACGAUAUAUAU**AAAAGGCUUACUGG**AU\*UU**CCGGUAAGCCUUUU**UUAUUGAAA  
 SCB49  
 \*\*\*\*\***AUG**CAAACAACAACAUAU**UGGUGGUGG**AAUAAACUCUCGACAAAACU**UGA**GCUAAGCACUAUUUGGUAUAUAUCAUA\*\*\*\*\*C**AAAAGGCUUGUC**AU\*\*CAC**GACAAGCCUUUU**UUUUUAUU\*

b) *trpE*:

TM, Tpet  
**GUG**GAGAGGAGUUA**UGGUGG**UAUUUGAAACAGGUGAGCGAGACGCGG**UGG****UAA**AAACGAUGGACAACAUAUUGGAGAACAUCAGA**AACCU**GACUGGCAGAAGA**UAUUCG****GAAGU**GAAAAGAAAGUA**ACUUUGAGUG**GA**GGGUU**GCGUUUCAAG