

Fig. 30. Classic attenuation regulation of gene *ilvD* in: a) actinobacteria, b) Chloroflexi, c) Bacteroidetes/Chlorobi. Designations as in Figure 4.

a)

CE **GUGCCACCAUCCAGUGUGACCGUGUGAUUCGAACCAGAGAACCGAUCGCCGUCGGACAUCCUAUUCUGCUUUGGAUUCCGCGCUCUCCAGCCC**ACCUCACCCGGUCCGGGCAUGGU**GAGGCGGCAUCCGAG**AUUUUUCCCCUUU

b)

Haur **AUGAAUAUCGUCCCGCGUUUAUUUAUUUAGCAACCUCUUAGCCUCGUAUUCGUCGUCAUUACGCGGUCACUUUUGUGUGGGAGGGGC**UAA**CAAGCCUCGCGGUAGUUCAAAAGAUCU****AAGCCCCUCC**AAUC**GGGAGGGGCUU**UUGAUUUUGAUUAAGUUA

c)

BDI *******AUGAACAAACGUAUUGCAUAUUUAUUCGUGGGUCCUUCUAGUCAUU**AGUAGG**UAA**GGAGAAAGGUGUGUAAGAAGUUGUAAGUCGUA*****GAGAUUUUCUU**AAGCCUUUCUCA****UAU**AGGAAAGGCUU**UUUUUAUU
 PARMER *******AUGAUGAACAAUGUAUUGCAUAUUUAUUCGUGGGUCCUUCUAGUCAUU**AGCAGG**UAA**GGAGAAAGGUGUGCAAGAAAUGUGAAGUCGUA***UAAAGAUUUUCUU**AAGCCUUUCUCA****UACAGAGAAAGGCUUUUUUAAUA
 BACOVA *****AUGUUA**CAUACAUCU**AUUAAACCUAGCAGUCCUGCAUAUUUAUUCGCGUCGUGGGUGGUC**CAUCAAG*****AGCG**UGAGAAAGGUUUUUGUGUUGUAUGU**GUUCGUACCAUAAAAGAUAGAAUUU**AGAGCCUUUCUCAC**UUGU**GUGAGAGAGGCUCU**UUAAUUA
 BACCAC *****AUGUUA**CAUACAUCU**AUUAAACCUAGCAGUUUUGCAUAUUUAUUCGCGUCGUGGGUGGUC**CAUCAAG*****AGCG**UGAGAAAGGUUUUUGUGUUGUAUGU***GUUCGUACCAUAAAAGAUAGAAUUU**AGAGCCUUUCUCAC**UGAU**GUGAGAGAGGCUCU**UUAAUUA
 BF **AUGAAUAUCAUCAUCAUUAAACCUAGCAGUCCUGCAUAUUUAUUCGCGUCGUGGGUGAU**UCCAUCAAG*****AGCG**UGAGAAAGGUUAUGUAUGUAUUCG*******UACAGAUAGAAGAUAGAUUU**AGAGCCUUUCUCAC**UACAGUGGGGAAGGCUCUUUACUUA
 BVU **AUGAAUAUUACUACUCUA**AAUAACCUAGCAGUCCUGCAUAUUUAUUCGCGUCGUGGGUGGUCACACUGGG*****AGCG**UGAGAAAGGUUUGUGUAUGUGUAUGU*****UGUACAUUAAGAAGAAUAAUU**GAAAGCCUUUCUCACA***UG**GUGAGGAAGGCUUUU**UCAUA
 MED217 *******AUGAAAACAGCAAUUCGUGUAC*******GUUCU**AUUUAUUGUCAUU**AACGGUAGU**UGAU*********GCGGAACGUCAUUUUAAAUAU****AGACCUUCGCUUAA*******ACUGGAAGGUUUUUUUUGA
 SCB49 *******GUGGUCAUUUAACCAAUUCUA**UAU**UAGCCACUA*********CAGAAGCCAAACAAAAGGAUUUGA*********CGAAGCUCUUUU**ACUAG
 CT **CCCCUCCUCUCCGGUAUUACCCUUACC**GUAUCGGUA**CCGCUUGUA**CAC**GUA**CGAA**UUUAUCGUA**GCC**UGA**CCCGCCGUCAGCCCGUUU**CCAGGUCCAUCGUAUUUUC*****CGCGAC**AAUACAUC****AGACUUCAAGGC****UUCGGG**ACAGGCAGG**CCCGGAC**UUUUUGUUU**UUC**