

Fig. 4. Classic attenuation regulation: a) *pheST* operon in α -proteobacteria, b) *pheA* gene in β -proteobacteria. Species acronyms are given in Table 2. The start and regulatory codons of the leader peptide gene are in bold; the alternative start codon is in green; stop codon - in bold italic; terminator – in yellow; antiterminator – underlined. Here, unlike in other Figures, the alignment is not given.

a) *pheST*:

Mmar
AUGAGCAAUGCGACGUAC**UUUUUU**GCGGCCUAU**UUU**GACAACGCAACCCGGGUGGGGGCGGUGGCCGGC**UAG**AUUGUGCGACAGCGCAACGAAACC**AGGGCCUCCCC**CAC**GGGAGGCCCU**UUUCUUUUGUCUGAAGGGAUUACACAC
 OA2633
AUGACAGCAAACCUC**UUUUUCUUC**GCGGCCUAU**UUC**UAUCGUCCCCAUGGGGCCGGU**UGA**CGCUGCUUGCUUGCAAGAAAAAGUCACCA**GCCCCGCC**CGAU**GGCGGGU**UUUUUAUUGGAGAAACGGCA
 m1
AUGGGGAACCCGCGCUGGCACGGCUGGCGCGGG**UUCUUU**UGUCUC**UGA**UGUCUGAACUUUCA**ACUUAAAGUG**ACUUC**CACUUAAAGU**CGACUCCAACGUAGCGAGUUUGACCC
 RB2150
AUGGGUCGG**UUU**ACAAUCAAAUUAUCUUUAAUAACCUCAAAGUGGAGGU**UUUUUU**AUG**UUU**UAGGAAACCCGCUUAAUGGUUUGGUCCUGGCACUAUCGCCAUGGUAUCGGUACAGCC**AAAGCGUA****CAGCU**AAGCGAACA**AGCUG****CGUUU**UGCUU
 Mmc1
AUGUACUGUUCUACAAUUUUGACUAUUUUUCUGAGCCAUCCCACCGCCA**UUUUUCA**UA**UUU**GGGAAGGGGGGAUGUCCU**UUC**ACGGUGGU**UGA**UUGGAGCGGUGGGGCUUGCCUGCUC**UACGCU**CGCAAAGCC**AG**AUUC**CGUG**UUUAAUGUUGCGGAUUU
 GGUCUU

b) *pheA*:

BF, BB
GUGCC**UUCUU**CAAGGUGCUGGGUUCGUAUCGGCGCAA**UAG**GGCCACGGCGUGGUUGACGCACACCA**GCGGGC****GCCG**U**GACGGA**GCGUGUG**UCCGUCGGCGCUGCC**AUAUUGUUUUUCUGCAGGU
 BFP
GUGCC**UUCUU**CAAGGUGCUGGGUUCGUAUCGGCGCAA**UAG**GGCCACGGCGUGGUUGACGCACACCA**GCGGGC**CGGCGU**GACGGA**GCGUGUG**UCCGUC**CGGC**GCUGCC**AUAUUGUUUUUCUGCAGGU