Рис. 24. Классическая аттенюаторная регуляция генов *ilvB* и *ilvI* у актинобактерий. Обозначения такие же, как на рисунке 4. Гены аннотированы как *ilvB* кроме *Frankia alni* (FRAAL), у которого ген аннотирован *ilvI.* У *Rhodococcus jostii* (RHA1) регуляции, приведенные на рисунке, имеются только у двух (*ilvB4* и *ilvB5*) из шести паралогов.

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DIP      ************AUGAACAUUAUUCGA***CUUGUAGUGAUUACCACUCGGCGCUUGCCGUAGCGGCUACAAGUCGUUUCCGA*******************************AAAGCGCCCUCGACAGCA****CCACACAUGCUGAGCGGGGGCUUUCCUUAU
CE       ************AUGACCUCAAUUCGACCUGUAGUAAUCGUAGCUGCGCGGCGUUUGCCGUAACGGUUUUCUACAAGUCGUCUCGU*****************************CAAGCGCCCUCGACAGUACCCACCACAGUGCUGUUUCGAGGGCUUUGUUGUU
cgR      ************AUGACCAUUAUUCGA***CUUGUAGUAGUAACCGCGCGGCGCCUGCCGUAACGGCCUUCCAAGUCGUCUCGUC*****************************AAGCGCCCUCGACAACACUCACCACAGUGUUGGAACGAGGGCUUUCUUGUU
jk       *********AUGGAAUUUACGCAACUAGUACGAGUACUCAUUAUCGAGGGGCGCCACUAGCUACCUCGUUGAGCUCGACACG**********************************GCGCCCCCAGCAACCGACGCAACAGCGUCGGUAAGUUGGGGGCUUUUGUUG
SAV      *********************AUGCGCACCCGAAUUCUCGUACUUGGAAAGCGCGUCGGCUGAGCUGGUGAAGUACCGGACGACCCGGAACACCCAGCGACCGCAC***CCGGCGCGCUCCCCUCGCUUGCC**********UCACGGCACGAGGGGUUUUUUGUU
SCO      *********************AUGCGCACCCGAAUUCUCGUACUUGGAAAGCGCGUCGGCUGAGCUGGUGACGUCCGGACCGACCCGGACUCCCCGCGACCCACA***CCGACGCGCUCCCCUCGCUUGCC**********UUACGGCACGAGGGGUUUUUUGUU
SCA      *********************AUGCGCACCCGAAUCCUCGUACUUGGAAAGCGCGUCGGCUGAGCUGGGACCCACCGGACGACGAUCCGGAAUCCCCGGCGACCGUACCCGACGCGCUCCCCUCGCUUGCCC*********UGUGGCAAGGAGGGGUUUUUUGUU
Mma      ******AUGGAUACCGCCGGAACCCCCGGAAAGCUUGUAGUACUUGGUCGGCGCGUUGUUGCCUGACUAGGUCAAUCGA***************************GCACCAACGCGCAACCCUCGUGCAGCAGC*******UGAGCUGACG*GGGGUUUUUUGUU
micro    ******************************AUGCUCGUAGUAAUUGGUCGGCGCGUUGGUGCCUGACUAGCCCAAGCGA***************************GCACCAACGCGACCCUCGUGCAGCAGC*******UGAGCUGGCGA*GGGUUUUUUCUU
Mflv     *********************AUGCAGACCCUGCUCGUAGUAAUUGGCUCGCGCGUUGAUGCCGCGCUGGCCCUGAUUCGGGCAUAGCA*************CAACCGCAUCAACGCGCACCCUCGUACAGCCGC*******CGGGCUGACG*GGGGUUUUUUGUU
MAV      ******AUGGAUACCGCCGGAAAGCCCGGGAUGCUCGUAGUAAUU***AGGCGCGUUGGUGCCUGAGUUGCCCGUCAGCA*************UGUGAAGCAAUCCAGCACAACGCGCAACCCUCGUGCAGCACA*********AGCUGUCG*GGGGUUUUUUGUU
BCG      ******AUGGACAAGGCCGGAAAGCCCGGGAUGCUCGUAGUAAUUGGUCGGCGCGUUGGUGCCUGACUAGCCCAAGCGA***************************GCACCAACGCGACCCUCGUGCAGCAGC*******UGAGCUGGCGA*GGGUUUUUUCUU
ML       ******AUGGAUAACGCCGGCCAGCCCGGAAUGUUGGUAGUAAUUUGUCAGCGCGUUGGUGGUUGAGUAGCACUUCAGUA************UUUGAAGCGAUCCAAAGCCAACGCGCAACCCUCGUGCAGCUAG*******UCAGCUGUCGA*GGGUUUUUUGUU
MtubH    ******AUGGACAAGGCCGGAAAGCCCGGGAUGCUCGUAGUAAUUGGUCGGCGCGUUGGUGCCUGACUAGCCCAAGCGA***************************GCACCAACGCGACCCUCGUGCAGCAGC*******UGAGCUGGCGA*GGGUUUUUUCUU
MUL      ******AUGGAUACCGCCAGAACCCCCGGAAAGCUUGUAGUACUUGGUCGGCGCGUUGUUGCCUGACUAGGUCAAUCGA***************************GCACCAACGCGCAACCCUCGUGCAGCAGC*******UGAGCUGACG*GGGGUUUUUUGUU
Mvan     *********************AUGCAGACCUUGCUCGUAGUAAUUGGGUUGCGCGUUGAUGCCGCGCUAGCCCUGGUUCGGGCAUAGCAAAA************CCGCAUCGACGCGCAACCCUCGUACAGCCGC*******CGGGCUGACG*GGGGUUUUUUGUU
Mgil     *********************AUGCAGACCCUGCUCGUAGUAAUUGGCUCGCGCGUUGAUGCCGCGCUGGCCCUGAUUCGGGCAUAGCACAA*************CCGCAUCAACGCGCACCCUCGUACAGCCGC*******CGGGCUGACG*GGGGUUUUUUGUU
MSMEG    ***************AUGCAGACCCCGGGAGUGCUCGUAGUAAUUGGUUGGCGCGUUGAUGCCGCGCUGGCCCUCUGCCGGGCAUAGCAAAC************CAGCAUCGACGCGCCACCCUCGUACAGCAGC********CUGCUGACG*GGGGUUUUUUGUU
Mkms     AUGCUCGACGGAGGCGCUUCGGCGCCGACAUCGCUCGUAGUAAUUGGUUGGCGCGUAGAUGCCGCGCUGGCCCUCUGCCGGUGCCGGGCAUAG*******CCACCAGCAUCGACGCGCCACCCUCGAACAGCGGC*********CCGCUGUCGGGGGUUUUUUCUU
Noca     *********************AUGCGCAACGGCAUUCUUGUACGCACGCGACGUGUGAGCUGAGUCGACACGACCGCAGCG*****************************CACACGUCACCCCUCGCCGCCCACC**********CGGGCCGAGGGGUUUUUUGUU
nfa      ******************GUGAAUCGAAACGAGUUGCUCGUAAUCGGCCGGCGCGUCCAGCGUUGAGCCUGACUGCCUAGG******UCGAAUACGUCAGCUCGCGUUUGCGACGCGCCACCCUCGAACAGCCAC********GCGCUGUCGAGGGCUUUUUUGUU
Req      ******************GUGAAGCAGAAUGAGUUGCUCGUAAUCGGCCGGCGCGUCGUCGCCUGAGCCGGUUGUUGCAACU******************CGCCAGAUAACGACGCGCCACCCUCGUACAGCU*********GAUGCUGACGA*GGGUUUUUUGUU
Strop    ******************AUGCUUGUCGCCAUGUCGUCGUACCGGUCGCUGCGAGUACUUACCUGAGCGCACUCUCCCACU**************************GAGAGUGCGCUGGCCCCGUGCA**************UCCCGCACGCGGGCUUUUUUGUU
FRAAL    ***************AUGUCUGUGCACAGUCAGAUUCUCGUACGUUCAGAGCGCGCGUAGUCGACGAUC*********************************UCGACCCCGUGCGCCGCCCCUCAGUGCC************CUAGGCACGAGGGGCUUUUUCGU
Franean1 ******AUGCUGCUCGGCAUUCUCGUACGUACGAUUCUCGUAGGCUCGGAGCGCGUGUAGUCGGACCAG**************************AUCGGUCUCCGACCACCCGCGCCGCCCCUCAGUGCC************CAUGGCACGAGGGGUUUUUUCGU
Francci3 *********************GUGCAUCUCGGGAUUCUCGUACGCUCAGAGCGUGCAUAGUCGACGACG*********************************UCGACCUGUGCGCCGCCCCUCAGUGCC************UCGGCACGAGGGGCUUUUUCGU
Acel     ************GUGCGUUUUAUCGCGCUCGUACUCCGUGGGCGCGCUGGCUGACCGACGGUCAC*****************************************CUGGCGCGCAACCCCUCCGUGCUGC*************GGCACGAGGGGUUUUUUGUU
Krad     ***************AUGCGGUUCCUCGUAGCCAUCGGACAGCGCGCCGGCUGACCAGUUCGGCCG*****************************************AGCGCGCGACCCCUCACACGCCAUC*********CCUGGCUGAGGGGUCUUUUUGC
Aaur     ******AUGAUCACAUUCGUUACCGUCGGCGUCGUCGUCCUUACCAAGCGCGUGGCUUAGCCC*****************************GACUGGUAACGAACCGUCACGCGCAAACCCCUCGAAGAGCCGG**********AAGGCUGAGGGGUUUUUUUAU
Arth     AUGAUCGCAUUCGUUACCAACUGCGCCGCUGCAGAUGCAGUCGUCGUCCUUACCAAGCGCGUGGCUCAAUAGCC*****************CGACUGGUAACGAACCGUCAUGCGCAACCCCUCGAAGAGCCGC**********CAGGCUGAGGGGUUUUUCUAU
Tfu      ***************GUGCAGAGCAACUUUCUGAUUCUCGUACUUGGUCAGCGCGCAGCCCGCUGACCGAGUCGAC*********************************GCUGCGCGCUCCCCUCAACCGCUAC*************GCGGUGGGGGUUUUUUUGU
RTFU     ***************GUGCAGAGCAACUUUCUGAUUCUCGUACUUGGUCAGCGCGCAGCCCGCUGACCGAGUCGAC*********************************GCUGCGCGCUCCCCUCAACCGCUAC*************GCGGUGGGGGUUUUUUUGU
TW       ***************************GUGGCAGGGAUUGUUUUAUAACAAACGCUAUUCUCA*GACCGACCUGAAUA*********************CCGGUGAUGCGUAUAUACCUGAUUUUUGUAAACUUGCCGAAUCGUAUUCAUGCGCAAGUUGCAGGGU
JNB      ******************GUGACCCGCUUCCUCGUACUUCUCUCGGCGCCCGGCCCCUCCUGACAGGUCC*************************************GGCCAGGCGCCUCCCUCCAUCGUCCCC**CAGUACGUGGGACGGGAGGGUUUUUUUGU
SACE     ************AUGCAGCGACUGAUCGACCUUCUCGUAAUUUCCUGGCGCGUCGACGCCUAGGAAGUUCGUA*****************************CCGUCGACGCGCCAACCCUCGUAAGACCA*****GCGUCUGGUCUGCGGGGGUUUUUUCGU
Blin     ***************AUGACUCACCUUCUUGUCGUCGUUAUUACCCAGCGCGCGGAUCUUCCGUAGCCUGUCAACACGACA***************************UGUUCCGCGCGCCCCUACCGA****************AACCGGAGGGGCUUUUUUCA
BAD      ******AUGCCCGAGCUGCGGUUCCUUCCGCGGCCGCGUGUACCGCGAGGCUGUCCGCUCCAUCCACACCAAGUGAGUGGUUGCCGGAUAACGGUAUAA***********AGCAUCGAAACCCUGCCAUCGACG*************GGUGGCAGGGUUUCUUUUA
RHA1_5   ******************GUGAAACAGAAUGAGUUGCUCGUAAUCGGCCGGCGCGUCGUCGCCUGAGUCGAUUCCUUCAACU******************CGCCAGAUAACGACGCGCCACCCUCGUACAGCA*********UCAGCUGACG*GGGGUUUUUUGUU
RHA1_4   ******************************AUGAAGCUCGUCAUUUCCCGGAACCUGGACUGAUC****************CCCGCGGGUGCGGGGCGGAGAGACGCCUUCGCCCCGCACCCGUCGGGUACCCGCGCACCAUCCGCACACGAACACGCACAGCC
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