

Fig. 25. Classic attenuation regulation of genes *ilvB* and *ilvI* in  $\alpha$ -proteobacteria. Designations as in Figure 4.

RD1\_ *ilvB* \*\*\*\*\*AUGACCGAACUAGUCGUCAUUGUGAGAAACACGCGCAUGGGCCGGUAACGGUAGACCAUAGUCUG\*\*ACCCAUGCCGCCCCCGCC\*\*\*\*\*AAGACCGGGGGCUUUUUUGUGCGCAAAGAUACGGGC  
RSK20926\_ *ilvB* \*\*\*\*\*AUGAAAGCCUAGUCGUAAUCGUAGGAACCAAGCGCAUGGGCCGGUAACGGUAGACCAAAUCGA\*\*ACCCAUGCCGCCUCUCCUG\*\*\*\*\*ACAAAGCGGGAGCUUUUUUUAUGCGUAAACAGACGAUGUC  
RTM1035\_ *ilvB* \*\*\*\*\*AUGGACACACUCGUUAUUCUAGCUAGGUAAGUGGCGCAUGGGCCGGUAACGGACACCCUUCGGGUC\*\*CCCCAUGCCGCCCCCG\*\*\*\*\*AAAAACGGGGGCUUUUUUAUGCGACUUGAAUUGACGUC  
NAS141\_ *ilvB* \*\*\*\*\*AUGACAGAUCAUGCUUUGACAGAUUCGUCGUCAUUCUAGACACACGCGCAUGGGCCGGUAACGGCAGACCAUAAUAGU\*\*CACC AUGCCGCCCCCGUC\*\*\*\*\*AAAAUCGGGGGCUUUUUUUGCGCAACGUUUUUUGAU  
TM1040\_ *ilvB* \*\*\*\*\*AUGGCUCGCGUAGUCGUAAUUGUAGGACACACGCGCAUGGGCCGGUAACGGUAGACCAUAAUCGA\*\*ACCCAUGCCGCCUCGGAUCC\*\*\*\*\*UCAAAAUCGGGGGCUUUUUUAUGCGAUACACACUGACGUU  
OG2516\_ *ilvB* \*\*\*\*\*AUGGCCGACGUACUCGUACUUAUCAGGGAUUGGCGCAUGGGCCGGUAACGGUAGACCAUUCUGUACCCCAUGCCGCCUCGAG\*\*\*\*\*AAAGUUCGGGGGCUUUUUUUGUGCGUAAACGACGGACGU  
OB2597\_ *ilvB* \*\*\*\*\*AUGACCUCGCUAGUGAUCGUAGUAGGAGCUUGGCGCAUGGGCCGGUAACACCGGAACCCCAAGAGGACCCCAUGCCGCCCCCG\*\*\*\*\*AAACUCGGGGGCUUUUUUUGUGUACGGUACGGCGAUU  
SKA53\_ *ilvB* \*\*\*\*\*AUGAUUGUCGUCGUACUAAUCGUGGAUCACAUUGCGCAUGGGCCGGUAACGGAUUUCCAUAAUGA\*\*CCCCAUGCCGCCCCCGA\*\*\*\*\*AAAAUCGGGGGCUUUUUUAUGCCGGAUACACGAAACG  
SSE37\_ *ilvB* \*\*\*\*\*AUGAUCACUCUAGUAGUCUAGUAGGAGAAAGCGCAUGGGCCGGUAACGGGACACCCUUCGGAU\*\*CCCCGUGCCGCCCG\*\*\*\*\*AAACGACCGGGGCUUUUUUAUGCCCAACCGCAACGACCC  
Dshi\_ *ilvB* \*\*\*\*\*AUGCCCCGUUUGUCGUACUCGUAGAAAACAGGCGCAUGGGCCGGUAACGGGACACCCUUCGGAU\*\*CCCCGUGCCGCCCG\*\*\*\*\*AAACGACCGGGGCUUUUUUAUGCCCAACCGCAACGACCC  
Jann\_ *ilvB* \*\*\*\*\*AUGUCCGACAUUCUCGUACUUGUAGGACAAAGCGCAUGGGGUCGGUAACGGCAUCCAUAAUUGGA\*\*ACCAUGCCGCCCCCGA\*\*\*\*\*UAACUCGGGGGCUUUUUUUGCAUUAUUAUUGGCACA  
Rsph17025\_ *ilvB* \*\*\*\*\*AUGCCUGGUGUCGUACUUCUUGUAGGAAAGCUGCGCAUGGGCCGGUAGCGGUAGACCAUAAUCGG\*\*UCCCAUGCCGCCCCCG\*\*\*\*\*AGUGAACCGGGGCUUUUUUUGUGCGGAUCGCGCGGCC  
RB2654\_ *ilvB* \*\*\*\*\*GUGGAAAGCCUUGUAGUACUAGUAGGAAUUAUAGCGCAUGGGCCGGUAACGGACCCUGAA\*\*GGUUCCAUGCCGCCCCCG\*\*\*\*\*AGAAAUCGGGGGCUUUUUUAUGCGGAGAUACGGGGCG  
RB2654\_ *ilvB* \*\*\*\*\*AUGAACGACAUCCUCGUUCUAGUCAGAACCAAGCGCAUGGUCGGUAACGGAAUCCAUA\*\*UGGAAACCAUGCCGCCCCG\*\*\*\*\*AAUCGGGGGCUUUUUUAUGUUAAGACGCUCAAGU

FP2506\_ *ilvB* \*\*\*\*\*AUGACGAACACGACCAUUCUCGUAAUCGUACGAAGGCGCACAGCACCGGCAGCGUAGCUGCCAGGCGAAUGCCACGUGUGCG\*GAAGACAGGGGCCUCCAGAGGGCCUUUUUUUUAUGCUUUGACUUGGUCGGAA  
BAB1\_ *ilvB* \*\*\*\*\*AUGAACACGCAUUAUUCUUGUAGUACGGGCGCGCAUGGGCAGGUGUGUAAACACCCGGCGAAAGU\*CCCAUGCCGCGAAAGACAGGCUCUCCUC\*\*GGGGGCUUUUUUAUUAUCCAAAUCAGAAAUGA  
Oant\_ *ilvB* \*\*\*\*\*AUGAACACGCAUUAUUAUUCUUGUGUAACGGGCGCGCAUGGGCAGGAUGGUGUAAACAUCCGGCGAAAG\*CUCCCAUGCCGCGAAAGACAGGCUCUCC\*\*UCGGGGGCUUUUUUAUUAUCCAAAUCAGAAAUGA  
SI859A1\_ *ilvB* \*\*\*\*\*AUGACAAGAUCACAUUCUCGUAGUAGGACGGCGCACACGCGAGGCGGUCUAGGGACCGCCGGCGAGA\*GCCACGUGUGCGCAUCACAAAGGGCCCGCAGCGGCCUUUUUAUUGCGCCAGUUCGACAC  
SIAM614\_ *ilvB* \*\*\*\*\*AUGUCGCUCAUUCUAGUAGUAGGAAAGCGCGCCUCCCGGGCGGAUGAACCCCGUACGGA\*\*\*CAGGAUGGGCGCGGACCAAGGCUC\*\*AAAGGGGCUUUUUUUAUGCCUCCUUCGACUUC  
Atu\_ *ilvI* \*\*\*\*\*AUGAAAAAUUUUUAUCGUAUCUUCUUGGUGGGAAGCGCGCAUGGGCAGGUGUGUAAACAUCCGGCGAAAG\*CAACCAUGCCGCUAAG\*\*GAGGCUCUCC\*\*UAGGGGCUUUUUUAUGCUUCAAACAGGCCU  
SMc\_ *ilvI* \*\*\*\*\*AUGAAAAUUCGCGGUUAUUCUUGGUGGGAAGCGCGCAUGGGCAGGUGUGUAAACAUCCGGCGGUAGCCAACCAUGCCGUAAC\*\*GAGGCUCUCC\*\*ACGGGGCUUUUUUAUGCCUCAAACAGCUUAU  
RHE\_ *ilvI* \*\*\*\*\*AUGAAAUCGCAACGGCUCUUAUCGUGGUGGGAAGCGCAUGGGCAGGAUGGUGUAAACAUCCGGCGACAGCCACCAUGCCGUAAGACAGGCUCU\*\*CCGGGGCUUUUUUUAUGCCGAAUUCGGGCU  
ml\_ *ilvI* \*\*\*\*\*AUGAAAAAGGCACUUAUCCUGGUGGGAAGCGCGGUGGCAAGGGCGGUGUAAACCGCCGGCGAAACCUCCCAUGCCGUAACACAU\*\*AGGCUCUCC\*\*UCGGGGGCUUUUUUAU\*\*\*\*\*  
BRAD\_ *ilvI* \*\*\*\*\*AUGCGCAAUUUUAUUGCCAUUCUCCUUAUCGUAGUCGUACCCAGGCGCAUCGCGGGGAUGGCUAGCGGCCAUCCAAA\*\*CCGAGCGGUGCG\*\*AGGGCUUCC\*\*AGGGCCUUUUUAUUGCCGAACCGCCG  
blr\_ *ilvI* \*\*\*\*\*AUGCGUAACAUAUUAUCCAAUCUCCUUAUCGCGUCGUACCCAGGCGCACCGCCGGGAUGGCUAGCUGCCAUCCAU\*\*ACAGCGGUGUGCAUGGGCCU\*\*CU\*\*CGGGGCUUUUUUAUUCGAAACCGACACGA  
Xaut\_ *ilvB* \*\*\*\*\*AUGCGCAAGAUUCGUUAUUCUUCGUAGGUGGGCGCGCCACUUUUUUGUCCAGCCUGAGGGCUGCGGAG\*\*ACGAGGUGGCGGUGACGAGGGGCC\*\*UCGGGGCCUUCGUCGUUUUGAAGGGCCUCGGCC  
Mext\_ *ilvB* \*\*\*\*\*AUGCGCACGGUUCUUAUCGUAGUGGAAGCGCCACAGACGGGCGGGGCUUGAUUCUAAGCCUGACAGGCCCGGUCGUGGGCGAUCAGGGGCCUC\*GGGGCCUUUUUAUUGCGCAAUCCAGCGGG  
M446\_ *ilvB* \*\*\*\*\*AUGCGCGCGGGUCUUAUUGUAGGGUGGCGCGCCAGGACGGGGCGGGCUUGAGAGACAGCCCGUAGCCCGCGGUGGCGCAUG\*CAAGGGUCCUUC\*\*GGGGCCUUUUUAUUGCCGAACCGCGCG  
AZC\_ *ilvB* \*\*\*\*\*AUGCGCAACUUAUUAUCCUUCUUGUACGUGAGCGCGCAUCGUCGCGGGCGCCUGAACGGGCGGUCGG\*GACAGGGCGCGCAUCAGGGGCC\*\*UCGGGGCCUUCGUGUUUCUGGAGCUGCGUCGG  
CC\_ *ilvI* \*\*\*\*\*AUGAUCGUACUUAUGGAGCGCGCCUUCGCGGGGUGAACCUCAAGUCACG\*\*UCGUAUCUGGUGCGCGCAAAAGGUCCU\*\*UCGGGACCUUUUUUCUUUCAGCCCCUCUUC  
Magn\_ *ilvB* \*\*\*\*\*AUGCGCACGGUUCUUAUCGUAGUGGAAGCGCCACGACGGGCGGGGCUUGAGGACAAGCCCGCA\*GGCCCGUGCGGUGGCGCAU\*GCAGGGUCC\*\*UCGGGGCCUUUUUAUUGCGCAAUCCAACGG  
RPE\_ *ilvB* \*\*\*\*\*AUGCGCAAUUUUUAUACCAACUGCUUAUCUAGCUACCCAGGCGCACCGCCUUGGUGGCUUGACGCGCAUCCAU\*\*CAAGGGCGGUGGACGGGGCCUG\*\*ACC GGCCUUUUUAUUGCCGAACGACAUACG  
NB311A\_ *ilvB* \*\*\*\*\*AUGCGCAAUUUUUAUUAACAAGAACCUUGUUCUGAUCCUCGUACUCGGAACACCGCCAGGAUGGCUAAGCCGUCGAAAGGA\*\*\*\*\*AAGGGGUGUGCCGGGGCC\*\*UUCAAGGGCCUUUUUAUUGGAGCUGGGCG  
Nwi\_ *ilvB* \*\*\*\*\*AUGCGUAUUUUUAUUAUACAGAGAUUCUUGUUCGGUGGUCGCUUUCGGGAGUGCUUCGUCGGCGGGUUGAGCUGUCCAAU\*\*\*\*\*CAAGGGCGGUGGCGCGGGCCU\*\*CCAGGGCCUUUUUCUUUCGUGACGGGCAA  
Nham\_ *ilvB* \*\*\*\*\*AUGAGCAACUUUAUUAACAAGAUUCGUCCUUGUUAUCGUCGUACCCCGGAGCACCGCCCGGGCGGCUAGGCGGUCUCCAAU\*\*\*\*\*CAAGGGCGGUGGCGGGGCC\*\*UUCAAGGGCCUUUUUAUUCGGAUCGAGC  
SAR11\_ *ilvB* \*\*\*\*\*AUGGAUGUGUUGGUUAUUAAGACAAAAGAUCCAAAGUGAAUUGGAUGAAAAAUUGAAGAAAUGAUUAACACAGAUAGACCUUUAUUUUUAGUCUGUUAAGAUCAAAGGAGAAUUGUUUCCAAUGAUCCAUUGGAAAC  
HNE\_ *ilvB* AUGCCUGAACUCCCAAGAUUGAGGAAACGCAAGUGCGCGCAUUAAGUAGUAAUCUUAAUGUCCCGUAGCUCUUCGACCA\*GGCAGUUGCGGGUGCGCGCA\*\*AAAGGGCUUCCUCCGGAGCCUUUUUUCUUGUCCUUGCUUUU