

Fig. 35. LEU-regulation of gene *leuA* in actinobacteria. Helix shoulders forming the pseudoknot are in yellow and underlined. The stem of LEU-element is in upper case, the putative Shine-Dalgarno sequence – in italic.

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DIP      cuucUCUCUcuu*****cgccgcgcccggguucaagcucuaaccgucgcccga*guucu*****aguguagccggcg*****caacaagaaccacguGAAAGAAaacia*****
CE       GCUCuUCUCuu*****cgccgcgcccggguuccagaggucuaa*****gcgaccggca*ccgucgcccga*guuu*****guguugccggucgugaaccg*****caacagcgcuagaguugauuccagaaaacagcgcaacuccacgaAAGAuGAGCa*****
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Jk       cuGCUUCUgca*****cgccgcgcccggguucaaaagguucuagagauuggguuuacagcccacgaccgaccggca*cccgucgcccga*cuuu*****ggcgugccggucggaaaaa*****acagaacaacaauucucAGGAGCcc*****
Krad     gagaacCUCCUCU*****gucgcgcccggggccag*****cuagggccgguc*cccgucgcccgaaccucgucg*cgccggcc*****acccguucucgcccggcgcaccagccgcuagagaccgcGAACGAGGAGaacgaa***
MAV      cgggUGCUCCuccucggagcgcgcgaggggucuga*****cagaccggcu*cccgucgcccga*guuccg*gaug*cgccggucg*****agguuccuucugauauccccGGAGCAuacacc*
BCG      cgggUGCUCCuccucggagcgcgcgaggggucuga*****cagaccggcu*cccgucgcccgacguucgc*gaug*cgccggucg*****agguuccuucucaccauccGGAGCAacuacc*
Aaur     augcUCUCUcu*****agcugcgcggcgaggccugaaagcuau*****ugaagcggccau*cccgucgcccga*guucc*guuguugccggcuaagcuuua*****cuaguucuuagagaaAAGGccacacguc*
Arth     gagcuUCUCUcu*****gucgcgcccggggccag*****aaagggccaauccucgucgcccga*guuugu*cgccggccaccuuuac*****ccaggaaccacagaaAGGcCCgauagaa***
ML       cagguaCUCCuccucgagcgcgcgaggggucuga*****ccagaccggcu*cccgucgcccga*guucc*aug*cgccggucg*****agguuccuucucacau*ccGGAGCaauuuu*
MtubH    cgggugCUCCuccucgagcgcgcgaggggucuga*****cagaccggcu*cccgucgcccgacguucgc*gaug*cgccggucg*****agguuccuucucaccauccGGAGCaacuacc*
SAV      gcacuuccucUCUCugucgcgcgcgagggccuga*****cgccggcac*cucgucgcccga*gucgaa*****cg*cgcccccacagcagcuccgaccg***accuucggcgcucgcgcgaccucgacugcugacugcgaugaccacGGAGcaccuccgc
Strop    cggugcuUCUCUcu*****gucgcgcccggggccag*****cgccggcac*cucgucgcccga*gucgaa*****cg*cgcccccacagcagcuccgaccg***accuucggcgcucgcgcgaccucgacugcugacugcgaugaccacGGAGcaccuccgc
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Blin     agguugcUCUCUcu*****gucgcgcccggggccag*****cggaagcaca*cucgucgcccga*guuuu*****cauaugcugauuuag*****cacaggaugauuagauGAGGAcc*****
RHA1     gcacuUCUCUcu*****gucgcgcccggggccag*****cgaccggcu*cccgucgcccga*guucc*cucg*cgccggucgaccagaaaguccacaucgcaucaGAGGaucauccc
MAR      augcUCUCUcu*****gucgcgcccggggccag*****cgaccggcu*cccgucgcccga*guucc*cucg*cgccggucgaccagaaaguccacaucgcaucaGAGGaucauccc
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FRAAL    cugcuuccu*****agcgcgcccggggccag*****cgaccggcu*cccgucgcccga*guucc*cucg*cgccggucgaccagaaaguccacaucgcaucaGAGGaucauccc
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Noca     cucgcuucuuccucggcgcccgggacgcccgcgaggggucuga*****cgaccggcu*cccgucgcccga*guucc*cucg*cgccggucgaccagaaaguccacaucgcaucaGAGGaucauccc
Mgil     cguguCUCCuccucgagcgcgcgaggggucuga*****cgaccggcu*cccgucgcccga*guucc*cucg*cgccggucgaccagaaaguccacaucgcaucaGAGGaucauccc
CLAV     ggccgcUCUCUcu*****gucgcgcccggggccag*****cgccgc*cucgucgcccga*guucc*cucg*cgccggucgaccagaaaguccacaucgcaucaGAGGaucauccc
Sare     gggcUCUCUcu*****gucgcgcccggggccag*****cgccgc*cucgucgcccga*guucc*cucg*cgccggucgaccagaaaguccacaucgcaucaGAGGaucauccc
SCO      GGCGUCUCUcu*****gucgcgcccggggccag*****agccgc*ccuucccggg*agcuggg*****gggccgucgcccgaaccagaaaguccacaucgcaucaGAGGaucauccc
Tfu      gagcuUCUCUcu*****gucgcgcccggggccag*****ggccgc*ccuucccggg*gguucgacc*****ugucgucgcccgaaccagaaaguccacaucgcaucaGAGGaucauccc
Lxx      ggcUGAUUCUcu*****gucgcgcccggggccag*****uuccggccuccuucgucgcccga*agucc*****gucgucgcccgaaccagaaaguccacaucgcaucaGAGGaucauccc
Nfa      cgggcuUCUCUcu*****gucgcgcccggggccag*****cgaccgc*ucccgcgcccga*guu*****aagccgucgcccgaaccagaaaguccacaucgcaucaGAGGaucauccc
Anae     gugagCUCCUGCUu*****gucgcgcccggggccag*****cgaccgc*ucccgcgcccga*guu*****aagccgucgcccgaaccagaaaguccacaucgcaucaGAGGaucauccc
Amin     GCAGACUUCUcu*****gucgcgcccggggccag*****uucgccu*****uagggagcuauua*****cgccgc*****gucgcccgaaccagaaaguccacaucgcaucaGAGGaucauccc
JNB      cgucuuccUCUCUcu*****gucgcgcccggggccag*****ucggcc*ccucgucgcccga*uucgcu*****gugcccaugcccagaaaguccacaucgcaucaGAGGaucauccc
SACE     acgCGGGcGACCU*****gucgcgcccggggccag*****ggccgc*accucgcccgggagguc*****gca*cgccggucacc*****guccgguGUUCUCCGaaaggucauccc*****
Acel     uaccuucugUGCUCG*cg*gucgcccggggccag*****cgaccgc*ucccgcgcccga*guu*****aagccgucgcccgaaccagaaaguccacaucgcaucaGAGGaucauccc
Micro    cgGGUGCUCCuccucgagcgcgcgaggggucuga*****cagaccggcu*cccgucgcccgacguucgc*acauaggaag*****agcacuaagauuucuaucucgcccgaAGCUCGagcggcgagcagc
Mflv     cguGUGCUCCuccucgagcgcgcgaggggucuga*****cagaccggcu*cccgucgcccgagucgcccga*cgccggucg*****acuucccagaccuuuccGGAGCACccc*****
Req      cgccgcCUCCuccucgagcgcgcgaggggucuga*****cagaccggcu*cccgucgcccgaccuucg*****cgccggucg*****cagcugcggccucuacaguccacaaccuGGAGaucaucc
SCA      GGGCGUCUCUcu*****gucgcgcccggggccag*****agccgc*ccuucccggguccugggguc*****ucgucggcc*****uuccuuccgaccuuccGGAGGACCcagcau
RTFU     GAGCUUguccu*****gucgcgcccggggccag*****ggccgc*ccuucccggguccugggguc*****uucgccc*****acgaccgaaaguuuAGUCACGgagcguuac
BLO      ggccguggaUCUGGagggcggccgagcagcug*cgggc*****aucugggucg*ccgcgcccggagggcgcagcgu*****auggcugcgggucua*****cgagcugaagaaCCGGGc*****
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