

APPENDIX 1

Nucleotide sequence of genetic elements in *P. aeruginosa* DSM1707 that are up-regulated upon attachment to a glass wool substratum. *Sau* 3AI sites indicated in red to indicate the ends of a chimeric fragment.

Nucleotide sequence of pALacZsd_(DSM1707)30

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1      ACGTACGCGC GCGCAACGTG ATGTTTCGGCA TCAATACCGT CGACACCCGT GCCAACCTGC
61     TGAAGTCGGA AAAACTGATC ATGGCCGGAG ACCGTGGAAC CGCGGAATCC ACGACTCATG
121    AATGAGCAGC ATTAGACAAA GGTGGTGTCT AAATACTTCG AGTCCGCCCG AGCGCGGCTA
181    AAATCGGTAC ACTCCCCGCC CGGTTGCCGA GACCGATTTC ACTACCCAGC ACAGCATGCG
241    ACGCACAAAG GAAGATTCTG AAAAAACCCG TACGGCCATC CTCCTGGCCG CCGAGGAACT
301    GTTCCTGGAA AAGGGCGTGT CCCATAACAG CCTGGAACAG ATCATGAAGC TGGTCGAGGA
361    AAAGGCCGCC AAGGGCCAGC TGCACGCGGT GGAGGAAGAG GAGGAGGTGG CCGGCAAGGG
421    CGCCGACATC ATCGATC
  
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Nucleotide sequence of pALacZsd_(DSM1707)30

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1      GATCGAGGGT CTCACCCTCA CCGCGGGGCA ATTGTGGAAG TCGCGCACTC GCGAGTCGGC
61     CGGCAGCGAC GACATGTACA TCATGGGCCG CGACAAGGCC CACGCCAGCG ACGAGTTCAA
121    TCTCGCCGGC GCGACCTACG CCTTCACCCC TCGGCTCAGC GCCAGCTATT ACTACGGCCA
181    GCTCAAGGAC ATCTACCGGC AGCACTATCT CGGCTGCTG CACACCCTGC CGTGGGCGA
241    AGGGCTGTCT CTGCGCAGCG ACCTGCGCTA CTTCGACAGC GGCGAAGACG GCGCGGCGAT
301    CTCCGGGCCG GTGGACAATC GCAACCTCAA CGCCATGCTC ACCCTGCGCG CCGGCGCCCA
361    CGCCTTCGGC ATCGGTGTCC AGAAGATGAT CC
  
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Nucleotide sequence of pALacZsd_(DSM1707)55

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1      GATCGGCCGG GTCGGCGCTG AAGCGCAGCT CGGAGTTGGC GATCGGGCCC TTGGTGTAGA
61     CGATCGGCAA GCTGCTGGCG CAACTCAAGG AGCCCGAGCC GCCGAAGGGC CTCAAGGACG
121    CCTGGGCCAA GCTGCCGATG TACAGGAAGG TCCTGTCCAT GCGCCGAAG GTGCTCAAGG
181    ACGCCCCCTG CCAGGAAGTG GTCGAGGAGG GCGAGGACGT CGACCTCGGC CGGCTGCCGG
241    TCCAGACCTG CTGGCCGGGC GATGTCCGGC CGCTGATCGC CGGGGTACCC GACCGCCACG
301    AGCCGGATGA CGACAACGAA GTGAACTACC CCTACCTGTT CGAGCTACTC GACCGGCTCG
361    GCTACCAGGG CTGGATC
  
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Nucleotide sequence of pALacZsd_(DSM1707)56

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1      GATCGCCGCA TTGGGACTGC TCCTGCCCCT GGCCGCCGGC AGCGCCGTGG CCGCGGAGGA
61     GGGCAGCTCG GTCAAGGATG CGCCAAGGC CGCGGTGTCC TCGGCCATCG AGACCGGCAA
121    GAACCTCCTC GCGGGGTCA GCGAGGGCAT CACCAGCGGC CGCCAGTCGG CCCAGGGCGC
181    CGATGGCGCC AAGGTGGTCT CCGACAACGC CGGCTTCGCC GAGATCAACT CGCGCAACAA
241    TGGGCTGACC ATCACTCCGC GCGGCACCCG GGGGAATTCC GGCGGGCAGG ACTGCGGCCG
301    GACATAGACG GTGTGCAAGC GGACCTCGCC GCGCGCCAGC ATCGCGTGCG CCATCCCCGC
361    CGGCATCCAT ACCGCGCGCT GCGGCGGGAC CAGCCATAGC GTGCGACCGA CATGCAGTTC
421    GATCAGCCC GACAGGGCAT GGATC
  
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Nucleotide sequence of pALacZsd_(DSM1707)65

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1      GATCGCCGTG CTGGTGGCCC TTGGCGTCCCT CCTGCCGTTG CCGCTGGTAG CGCTGGGTTG
61     GCGCTGCTG CTGGGCGCCG AGTGGGCCAT GGATC
  
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Nucleotide sequence of pALacZsd_(DSM1707)73

1 GATCTCGCGT TCGCGATGGC TCAGGCAGAC CGGGTTGGAC ATCAGCATCG GATGCTCCAG
 61 GTCGGTCAGC TTCTGGGTCA GCAACTCGAT CATGCAACGC AGCCGCAGGC GGATTTCCTC
 121 GCGCTCGAAG CTGGAGATGT TCTGCTGGTC GCGCGCCACG GAAAGCACGC TGAGCAAATT
 181 GTTCGGCGCG CGGATCACCG CGGTATAGCC GCGCGCCTTG GCCATCTGGA TGGCCTCCAG
 241 GGTCTCGGTG AGCGAACCGA TC

Nucleotide sequence of pALacZsd_(DSM1707)205

1 GATCATCAGC AGGGTCAGGG CATATTCATA GCCGTTGTCG GTGATGAAGA AGCCATTGCC
 61 GATGTGCACG CTGAAGATCA CCATGTAGTC CACCAAGCCG TGGTTGGACT CGGTGAATA
 121 CTTCTGTACC TCGTTGACCT TCTGGCTCTC GTAGTTCGAC CAGGTGTTCT CGGTGCCATT
 181 CACCACGCCG GTCTGCAAGC CCTGGTAGAC CTCGGCGAAG GACATCTTCC GGGAGATC

Nucleotide sequence of pALacZsd_(DSM1707)267

1 GATCTCGTCC ATGCTCACGC CAAGGGTCTC CGCCTTGCGC CGGTCGATGT CCAGGCGGAT
 61 C

Nucleotide sequence of pALacZsd_(DSM1707)278

1 GATCGCGCAC ACCGAGCGCC TGCTCGCCGG GGTCCCTCGGC GCGTCCTCGG CGCGGGCGGT
 61 GGTGAAGGCC GCCATCGAAG GGCGCGAGAT GCAGGTGGAG GACGTGGTGC GGATC

Nucleotide sequence of pALacZsd_(DSM1707)457

1 GATCACATGG CTGAAACCT GCGGGCGAA CGCCATCTCG TGGGTGACCA GGACCATGGT
 61 GCGACCTTCC TCGGCAACT GCTGCATGAC TTTCAGCACT TCGCCGACCA GTTCCGGATC
 121 AGCATTGTCTG GAACAGCCTC TGGAGACGGG AAGGTGTGGG GGCCGGCCGG GCCGGCCCGC
 181 AGAGGCCGTG CATTCTACCG TAAAGCACCG TCCGGCGGCA CCCGCGCCGA TGGCTATCGC
 241 ATAGCCCTCC ATCGGATCGC CGCGCGCAAT CGCGCGTTGC GTTCCTTCAT CGGCCAGGGC
 301 TACTACAACCT GCCACACCCC GGCACCGATC

Nucleotide sequence of pALacZsd_(DSM1707)461

1 GATCATTGTTGG CATCTTTGGC TTGATTCGTC AAAAGCAATG AAAAATCGGC TAATACGACG
 61 AGCAAAGCTA CTTTCAGACA ACACTATGCT CCTTAATAAC GAATCCCCAA ACCCCTAAAA
 121 TGACCGCCAG GCATCTCCTA TACTCAGGCT CCGCTCCCTG CGCAGCCTCT CTGGCAAGGT
 181 CACTTCATGA ACAAGAAAAA CCGCCACCCC GCCGACGGCA AGCAGCCCAT CACCATCTTT
 241 GGCCCGGACT TCCCCTTCGC CTTGACGAC TGGCTGGAAC ACCCCGCAGG CCTGGGCAGC
 301 ATCCAGCAG ATC

Nucleotide sequence of pALacZsd_(DSM1707)498

1 GATCAGGCGC GGCATGACCA GCTCGGCGGT CTCGAAGGTG GTGAAGCGTT CGCCGCAGGC
 61 CAGGCACTCG CGGCGCCGGC GCACCTGATC

Nucleotide sequence of pALacZsd_(DSM1707)560

1 GATCTGCTCC ACTTCCAGCA GCAGTTCGCC CAGCGGCGGA TAGTTGAAGT CCCGCTCGAG
 61 CAGGGTCGGG CGCAGCCGA AGCGACGATA GGCGGCTCCG AGCAAGGCCC AGACGCCGGG
 121 CTTACAGGCG GCACCATGGG TGTCGATC

Nucleotide sequence of pALacZsd_(DSM1707)561

1 GATCCTGTTC TCGCTGTGCT CGGCGCTGTC CGGCTGGTC GGCGGCTTCC TCAGCCTGCT
 61 GCTGTTCGCG GGCATCATGG GCCTGGCCGA GGGGCCGATC TGCGCCCTTGC CTTGCAGGCC
 121 GGTGGCCAGG CCGACGTCGA CGTTGTTGTT CTCGTAGGCG CCGATC

Nucleotide sequence of pALacZsd_(DSM1707)569

1 GATCATCGTC GACGAAGCCC ACCGGCGCGG CATCGAGGTG CGCGTCGACG ACGCCGAGGG
 61 CGGCCTGTTC ACCCTGACCC AGGGCGGCCG GCAGATC

Nucleotide sequence of pALacZsd_(DSM1707)570

1 GATCGCACCG CAGTTCGTAA AACCCCTACGT CAAGGGTGAC AAGCACGATG CACACGACGC
 61 CGAGGCGATC

Nucleotide sequence of pALacZsd_(DSM1707)614

1 GAGCGTTTCG CCCGCTACAC CCGCATCAGC ATGTTCAACC TGCTGCGCCG TTCGGCCGAC
 61 GTCGCGGTGCG GCGGCGTGCA GGTGATGAAG TTCGGGGAGT ACGTGCCTA GCTGTACGTT
 121 CCCACCAGCC TCAACCTGGT GAAGATGAAG CCGCTGCACT GCGCCCGGGG GGGTCGATC

Nucleotide sequence of pALacZsd_(DSM1707)633

1 CCGGCCTGCA AGGCCGGCCG GCCATTGGCG TAGCTCAAGC CACGGCGCGC GACCTGCTCG
 61 GCCTGGGCCG CATCGCCCTG GGCCAGGCGC ACCTGGGCCA GGCGATAGAG CACCTGCGGC
 121 TCGCGCGGAG CGATGCGCTG GGCTCGCTCG AGGCTGGCGG CGGCGCTGTT CAGTTCGCCC
 181 CTGCCCTGCT GTTGTGGGC GGTTGTGAGC ATCGCCAGGA CCGGCCCGTC CAACTGCTCG
 241 TCGGCCGCCA GGCTGCCGGC CGAGCCGGAG GCCGGAATGC CGGTGGGCGC GGAACGACTG
 301 GCGCCGCTGG GCGGCATGTT GTAGCTGCCA CCCAGCGGTG GCGTGGAGGC GCTGCTGGGC
 361 GGAGCCTGGT ACTGGGTGCC GGTGCCGAGC GGAGCGCTGC TGATCGGCGC GCGCCCGGAC
 421 TCGCCCGGGA AAGTCTGGAT C

Nucleotide sequence of pALacZsd_(DSM1707)699

1 CTCAGCGAGG AGTGCGGACG CCAGGTGCTG GCGGTGGTCG GCGATAGCGA CAGCCTGGTG
 61 GAGCGCCTGG CCGACCTGCC GCCGAAAGC ATCCTGATCA CCGAGCTGGG CTTGCCTGGC
 121 CAGCGCAGCC GCGACGGTAT CCACCTGGTG GAATGGCTGA CCCGGCACTG CCCGCAAATG
 181 AAGGTGATGG TCTACTCGGT GTTCAGCGCG CCGTTGCTGG CCAAGCGGTT CCTGCGCAGC
 241 GGCGCCTCGG CCTACATCAG CAAGCGCAGC CCGCTGGAGA CGTTGAAGGC GCGCTGGAG
 301 TGCATGGCGC TCGGACAGAC CTTCTCGAC CCCGGCCTGC ACCCGCAGCG GCATACCGGC
 361 AAGCCGCTGA GCCCCACCGA GGTGGACATC CTCGGCGGCC TGGCGCGTGG CGACACGGTC
 421 AGCGAGATC

Nucleotide sequence of pALacZsd_(DSM1707)703

1 GATCCGTGGC GCCGCCGAGT TGCTCGACGG CGAGATGCCG GCCGAGCAGC GGGCGCGCTT
 61 CGTCGGCAAC ATCGCCGGCG AGAGCGAGCG CCTGCAACAA CTGATC

Nucleotide sequence of pALacZsd_(DSM1707)707

1 GATCGTCGAT ATCGTTGCCG GCGACTATGT GACGCGGAAC TACCAGGCGG CGGCGATGAA
 61 CGGACGGATC GTGCAGATCG GCGTGATCAA GGGCAAGGCC GCCGAAGTCG ACCTGTTCCC
 121 GATGCTGAGC AAGCGCCTGG TCCATCTTGG CTCGACCCTG CGCTCGCGGA GCCACGACGA
 181 GAAAGGCGCG ATC

Nucleotide sequence of pALacZsd_(DSM1707)877

1 TGCTGGCGGC TCATGGCCTG GCGCCGCATC AGCGTGTAGG CCTCCTCCTC GCCGCAATGC
 61 TTCATCTTCA TCAGCAGGCC CTTGGCCAGC TCGATGCGCT TGCCTCGGC CAGCTGCGCC
 121 TCGCGCGCCT GCAGTTGAGC GCGCAGCGCC TGGTCGCTCT CGAAGCGCGC CATGGCGACG
 181 TCGAGGATCG GCTCGGCGCG AGGGTCCTGG GCGCGCTCGA CAAGGGTGCG GAAGGCATTC
 241 TCCACCACCC AGCGATCGAT CACCCGGTCG AAGCCCAGGC GTGCGGCGAA CTCCACCATC
 301 TCGCGGCAGA CCGCCTCGGT GGTAGCGGCC TTGCGCAGCC GGGCGACGCT GTCGAAGAGA
 361 AGGCTGGCGT AGTCGGTCAT GCGCGGGCA TTCCTGGCTT TTTCCGCATG ATCC

Nucleotide sequence of pALacZsd_(DSM1707)889

1 ATGCGACCGG CCAGGGCGCT GGCCAGGGTG CAGCCGGAGC CATGGTAGCT GCCGGGCAGG
 61 CGCTGGCAGG TGAAGGTGCG GCGGCTGCCG TCGCGGCTGT ACAGGCGATT GTGCACTTCG
 121 CTTTCGTCGC CGTGTCCGCC GGTGATC

Nucleotide sequence of pALacZsd_(DSM1707)921

1 TCGTCCCGCT TCGGGCTGAA AGTGCACCG CCCGGGCGGG CGTCAGTCCC CGACGGCAGC
 61 GATCAGGACG CCACAACCCA CGCCGAGTA GCAGCAGGTC AAAGCGGTGG TGCGCAGCGG
 121 GGAATCTGTC GACATGCTCG GCTCCTGTTA TCGGCGAGAG ATCAACTGGA CCGTGATGAT
 181 CAGCGAGGGC ACCCTGTTTC TCACCGACGA GAACGGCCAG CACGAGTTGC AGCTGGAGTG
 241 GCTGCAGGGC GAGCGTTGAT C

Nucleotide sequence of pALacZsd_(DSM1707)930