# Fig. 1

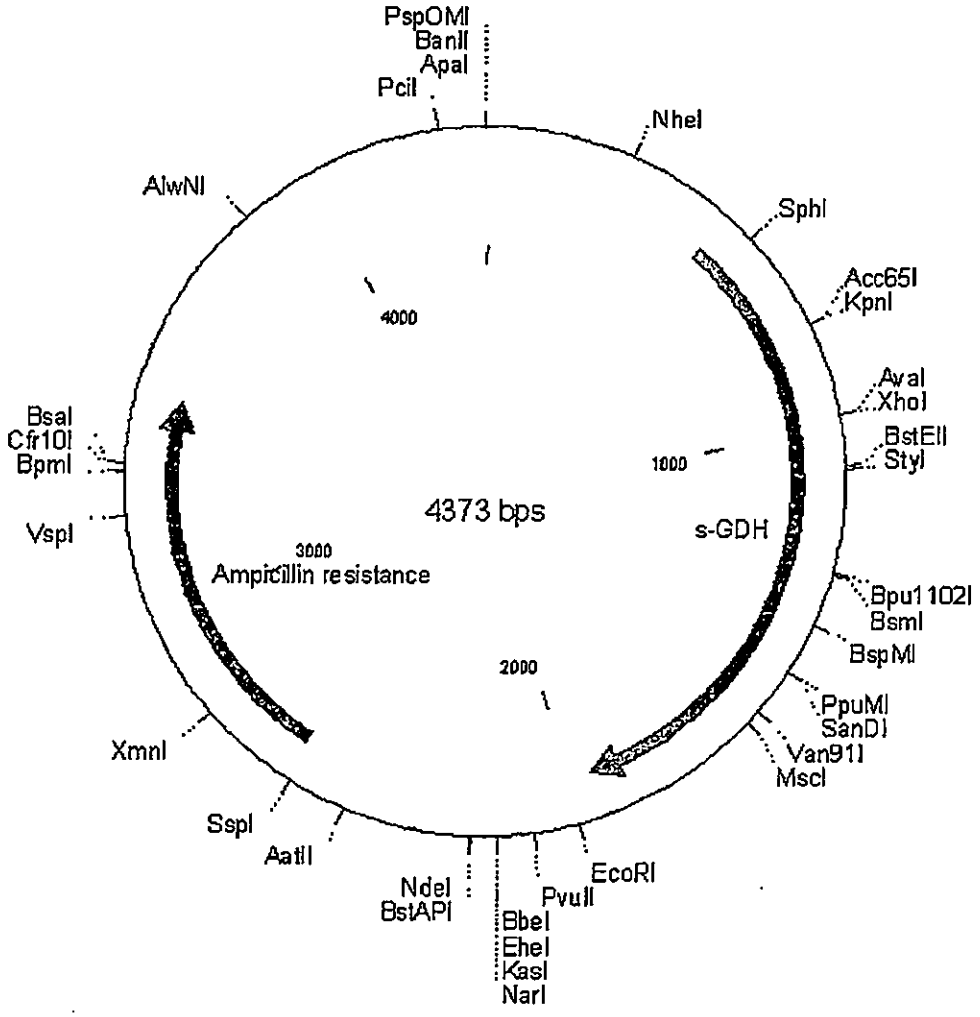
Amino acid sequences of A. calcoaceticus (top) and
A. baumannii (bottom)

```
          .         .         .         .         .
    1 DVPLTPSQFAKAKSENFDKKVILSNLNKPHALLWGPDNQIWLTERATGKI 50
      |:||||.||||||.||||||||||||||||||||||||||||||||||||
    1 DIPLTPAQFAKAKTENFDKKVILSNLNKPHALLWGPDNQIWLTERATGKI 50
          .         .         .         .         .
   51 LRVNPESGSVKTVFQVPEIVNDADGQNGLLGFAFHPDFKNNPYIYISGTF 100
      ||||| ||| ||||||||||.||||||||||||||||||.||||||||||
   51 LRVNPVSGSAKTVFQVPEIVSDADGQNGLLGFAFHPDFKHNPYIYISGTF 100
          .         .         .         .         .
  101 KNPKSTDKELPNQTIIRRYTYNKSTDTLEKPVDLLAGLPSSKDHQSGRLV 150
      ||||||||||||||||||||||.||| |||:||:||||||||||||||||
  101 KNPKSTDKELPNQTIIRRYTYNKTTDTFEKPIDLIAGLPSSKDHQSGRLV 150
          .         .         .         .         .
  151 IGPDQKIYYTIGDQGRNQLAYLFLPNQAQHTPTQQELNGKDYHTYMGKVL 200
      |||||||||||||||||||||||| |||||||||||| ||||||||||||
  151 IGPDQKIYYTIGDQGRNQLAYLFLSNQAQHTPTQQELNSKDYHTYMGKVL 200
          .         .         .         .         .
  201 RLNLDGSIPKDNPSFNGVVSHIYTLGHRNPQGLAFTPNGKLLQSEQGPNS 250
      |||||||||||||||||||||||||||||||||||| ||||||||||||||
  201 RLNLDGSIPKDNPSFNGVVSHIYTLGHRNPQGLAFAPNGKLLQSEQGPNS 250
          .         .         .         .         .
  251 DDEINLIVKGGNYGWPNVAGYKDDSGYAYANYSAAANKS.IKDLAQNGVK 299
      ||||||:.|||||||||||||||||||||||||||||| ||| ||||||||:|
  251 DDEINLVLKGGNYGWPNVAGYKDDSGYAYANYSAATNKSQIKDLAQNGIK 300
          .         .         .         .         .
  300 VAAGVPVTKESEWTGKNFVPPLKTLYTVQDTYNYNDPTCGEMTYICWPTV 349
      || |||||||||||||||||||||||||||||||||||||| |||||||
  301 VATGVPVTKESEWTGKNFVPPLKTLYTVQDTYNYNDPTCGEMAYICWPTV 350
          .         .         .         .         .
  350 APSSAYVYKGGKKAITGWENTLLVPSLKRGVIFRIKLDPTYSTTYDDAVP 399
      |||||||| |||||| ||||||||||||||||||||||||||||| |||:|
  351 APSSAYVYTGGKKAIPGWENTLLVPSLKRGVIFRIKLDPTYSTTLDDAIP 400
          .         .         .         .         .
  400 MFKSNNRYRDVIASPDGNVLYVLTDTAGNVQKDDGSVTNTLENPGSLIKF 449
      ||||||||||||||:|| ||||||||||||||||||.||||||||||||
  401 MFKSNNRYRDVIASPEGNTLYVLTDTAGNVQKDDGSVTHTLENPGSLIKF 450

  450 TYKAK 454
      ||  |
  451 TYNGK 455
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# Fig. 2

Schematic diagram of the plasmide with gene for s-GDH (pACSGDH)



# Fig. 3a

Sequence vector pACSGDH

```
cactaactga ttacgcaccg catgtaaccg ttttcaatct gtgagtaaat tcacagttta 60
ttaacattgt gatagctatg atgacaacgt ttgtcgcact gtaactaacg tgtaacagtt 120
agttgtcagt tttgctgggg tatttcgctt ataaaaaccg ttatcacaat atcccgcgac 180
taccggacaa aaataaagag ttgaataaga gcttatccca ttagggctat tttacttgcc 240
attttggacc tgggcagtgc tcgccaaaac gcgttagcgt tttgaacgcg ctagcggcgg 300
cccgaagggc gagcgtagcg agtcaaacct cacgtactac gtgtacgctc cggtttttgc 360
gcgctgtccg tgtccaaact gctgcgccaa taacgcctgg tgggataggc tctaaatacg 420
cttcggcgtt cagtaacacg cgttaacgtg ctgaacagcc gggcattttt ttacgctata 480
ccctacataa taaaaccgga gctaccatga ataagaaggt actgaccctt tctgccgtga 540
tggcaagtct gttattcggc gcgcacgcgc atgccgccga tgttcctcta actccatctc 600
aatttgctaa agcgaaatca gagaactttg acaagaaagt tattctatct aatctaaata 660
agccgcacgc gttgttatgg ggaccagata atcaaatttg gttaactgag cgagcaacag 720
gtaagattct aagagttaat ccagagtcgg gtagtgtaaa aacagttttt caggtaccag 780
agattgtcaa tgatgctgat gggcagaatg gtttattagg ttttgccttc catcctgatt 840
ttaaaaataa tccttatatc tatatttcag gtacatttaa aaatccgaaa tctacagata 900
aagaattacc gaaccaaacg attattcgtc gttataccta taataaatca acagatacgc 960
tcgagaagcc agtcgattta ttagcaggat taccttcatc aaaagaccat cagtcaggtc 1020
gtcttgtcat tgggccagat caaaagattt attatacgat tggtgaccaa gggcgtaacc 1080
agcttgctta tttgttcttg ccaaatcaag cacaacatac gccaactcaa caagaactga 1140
atggtaaaga ctatcacacc tatatgggta aagtactacg cttaaatctt gatggaagta 1200
ttccaaagga taatccaagt tttaacgggg tggttagcca tatttataca cttggacatc 1260
gtaatccgca gggcttagca ttcactccaa atggtaaatt attgcagtct gaacaaggcc 1320
caaactctga cgatgaaatt aacctcattg tcaaaggtgg caattatggt tggccgaatg 1380
tagcaggtta taaagatgat agtggctatg cttatgcaaa ttattcagca gcagccaata 1440
agtcaattaa ggatttagct caaaatggag taaaagtagc cgcaggggtc cctgtgacga 1500
aagaatctga atggactggt aaaaactttg tcccaccatt aaaaacttta tataccgttc 1560
aagataccta caactataac gatccaactt gtggagagat gacctacatt tgctggccaa 1620
cagttgcacc gtcatctgcc tatgtctata agggcggtaa aaaagcaatt actggttggg 1680
aaaatacatt attggttcca tctttaaaac gtggtgtcat tttccgtatt aagttagatc 1740
caacttatag cactacttat gatgacgctg taccgatgtt taagagcaac aaccgttatc 1800
gtgatgtgat tgcaagtcca gatgggaatg tcttatatgt attaactgat actgccggaa 1860
atgtccaaaa agatgatggc tcagtaacaa atacattaga aaacccagga tctctcatta 1920
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gaccgtctcc gggagctgca tgtgtcagag gttttcaccg tcatcaccga aacgcgcgag 2400
acgaaagggc ctcgtgatac gcctatttttt ataggttaat gtcatgataa taatggtttc 2460
ttagacgtca ggtggcactt ttcggggaaa tgtgcgcgga acccctattt gtttatttttt 2520
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atattgaaaa aggaagagta tgagtattca acatttccgt gtcgcccttа ttccctttttt 2640
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tgaagatcag ttgggtgcac gagtgggtta catcgaactg gatctcaaca gcggtaagat 2760
ccttgagagt tttcgccccg aagaacgttt tccaatgatg agcacttttа aagttctgct 2820
atgtggcgcg gtattatccc gtattgacgc cgggcaagag caactcggtc gccgcataca 2880
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# Fig. 3b

```
ctattctcag aatgacttgg ttgagtactc accagtcaca gaaaagcatc ttacggatgg 2940
catgacagta agagaattat gcagtgctgc cataaccatg agtgataaca ctgcggccaa 3000
cttacttctg acaacgatcg gaggaccgaa ggagctaacc gcttttttgc acaacatggg 3060
ggatcatgta actcgccttg atcgttggga accggagctg aatgaagcca taccaaacga 3120
cgagcgtgac accacgatgc ctgtagcaat ggcaacaacg ttgcgcaaac tattaactgg 3180
cgaactactt actctagctt cccggcaaca attaatagac tggatggagg cggataaagt 3240
tgcaggacca cttctgcgct cggcccttcc ggctggctgg tttattgctg ataaatctgg 3300
agccggtgag cgtgggtctc gcggtatcat tgcagcactg gggccagatg gtaagccctc 3360
ccgtatcgta gttatctaca cgacggggag tcaggcaact atggatgaac gaaatagaca 3420
gatcgctgag ataggtgcct cactgattaa gcattggtaa ctgtcagacc aagtttactc 3480
atatatactt tagattgatt taaaacttca tttttaattt aaaaggatct aggtgaagat 3540
cctttttgat aatctcatga ccaaaatccc ttaacgtgag ttttcgttcc actgagcgtc 3600
agaccccgta gaaaagatca aaggatcttc ttgagatcct ttttttctgc gcgtaatctg 3660
ctgcttgcaa acaaaaaaac caccgctacc agcggtggtt tgtttgccgg atcaagagct 3720
accaactctt tttccgaagg taactggctt cagcagagcg cagataccaa atactgtcct 3780
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cagggtcgga acaggagagc gcacgaggga gcttccaggg ggaaacgcct ggtatcttta 4140
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