SEQUENCE LISTING

<110> Techulon Inc.
Bryson, Joshua
Malone, Brett

<120> ANTISENSE MOLECULES FOR TREATMENT OF INFECTIOUS DISEASE

<130> 3344.003PC01

<140> To Be Assigned
<141> Herewith

<150> US 61/786,926
<151> 2013-03-15

<160> 101

<170> PatentIn version 3.5

<210> 1
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 1
tttcatttcg gcacc 15

<210> 2
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 2
cgctcacttt tgtaa 15

<210> 3
<211> 12
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(12)

<400> 3
acgaggcata at 12

<210> 4
<211> 12
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(12)

<400> 4
tgtttaccca ta 12

<210> 5
<211> 12
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(12)

<400> 5
aacatcggaa tg 12

<210> 6
<211> 12
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(12)

<400> 6
actcgtggca ta 12

<210> 7
<211> 12
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(12)

<400> 7
cgagccataa ta 12

<210> 8
<211> 12
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(12)

<400> 8
acgcataata at 12

<210> 9
<211> 12
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(12)

<400> 9
ttacgtgcca tt 12

<210> 10
<211> 12
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(12)

<400> 10
tacgtgccat at 12

<210> 11
<211> 12
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(12)

<400> 11
cgagccatgt at 12

<210> 12
<211> 12
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(12)

<400> 12
tcatgttatg gc 12

<210> 13
<211> 12
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(12)

<400> 13
gttggatcat ta 12

<210> 14
<211> 12

<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(12)

<400> 14
tctttcgctc ac 12

<210> 15
<211> 12
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(12)

<400> 15
tacgagccat tt 12

<210> 16
<211> 12
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(12)

<400> 16
tagccattgt cg 12

<210> 17
<211> 12
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(12)

<400> 17
catcgaaagt cc 12

<210> 18
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 18
gttctcattt tatat 15

<210> 19
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 19
tagccacgat gtgca 15

<210> 20
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 20
ttagccattt atagt 15

<210> 21
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 21
agacattcag acacc 15

<210> 22
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 22
gttggcatgt gatat 15

<210> 23
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 23
tttacgaggc ataat 15

<210> 24
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 24
tactgccatg atata 15

<210> 25
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 25
tgatttgtca ttata 15

<210> 26
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 26
tatactcatt ttggg 15

<210> 27
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 27
aaattgccat aatca 15

<210> 28
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 28
tttagacatc tgtat 15

<210> 29
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 29
taacatcgga atgca 15

<210> 30
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 30
cagtaatcat aataa 15

<210> 31
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 31
agcaaacata ctttg 15

<210> 32
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 32
gagccataat aagac 15

<210> 33
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense

<222> (1)..(15)

<400> 33
ttgacgcata ataat 15

<210> 34
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 34
tttacgtgcc attta 15

<210> 35
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 35
tacgtgccat attaa 15

<210> 36
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 36
tttagccata actag 15

<210> 37
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 37
cgagccatgt atttg 15

<210> 38
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 38
gatcatttca atact 15

<210> 39
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 39
actcatgtta tggca 15

<210> 40
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 40
tttagccact taatt 15

<210> 41
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 41
cggttcaaag tggga 15

<210> 42
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 42
tggatcatta gttaa 15

<210> 43
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 43
ggtagtaaca ttatt 15

<210> 44
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 44
ttgacccaca gtatt 15

<210> 45
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 45
ttccattagg atgtc 15

<210> 46
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 46
gagccatttg ggcgc 15

<210> 47
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 47
agccattgtc gctta 15

<210> 48
<211> 15

<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 48
ttccattatc cgagc 15

<210> 49
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 49
ggtcatcgaa agtcc 15

<210> 50
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Antisense
<222> (1)..(15)

<400> 50
gttttaccat gcaaa 15

<210> 51
<211> 10
<212> PRT
<213> Synthetic

<400> 51

Lys Phe Phe Lys Phe Phe Lys Phe Phe Lys
1 5 10

<210> 52
<211> 10
<212> PRT
<213> Synthetic

<400> 52

Arg Phe Phe Arg Phe Phe Arg Phe Phe Arg
1 5 10

<210> 53
<211> 23
<212> PRT
<213> Synthetic

<400> 53

Gly Ile Gly Lys Trp Leu His Ser Ala Lys Lys Phe Gly Lys Ala Phe
1 5 10 15

Val Gly Glu Ile Met Asn Ser
20

<210> 54
<211> 21
<212> PRT
<213> Synthetic

<400> 54

Ala Gly Tyr Leu Leu Gly Lys Ile Asn Leu Lys Ala Leu Ala Ala Leu
1 5 10 15

Ala Lys Lys Ile Leu
20

<210> 55
<211> 6
<212> PRT
<213> Synthetic

<400> 55

Lys Lys Leu Trp Leu Trp
1 5

<210> 56
<211> 8
<212> PRT
<213> Synthetic

<400> 56

Arg Arg Lys Trp Leu Trp Leu Trp
1 5

<210> 57
<211> 8
<212> PRT
<213> Synthetic

<400> 57

Lys Gln Arg Trp Leu Trp Leu Trp
1 5

<210> 58
<211> 18
<212> PRT
<213> Synthetic

<400> 58

Leu Leu Ile Ile Leu Arg Arg Arg Ile Arg Lys Gln Ala His Ala His
1 5 10 15

Ser Lys

<210> 59
<211> 16
<212> PRT
<213> Synthetic

<400> 59

Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
1 5 10 15

<210> 60
<211> 12
<212> PRT
<213> Synthetic

<400> 60

Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Gln
1 5 10

<210> 61
<211> 13
<212> PRT
<213> Synthetic

<400> 61

Ile Leu Pro Trp Lys Trp Pro Trp Trp Pro Trp Arg Arg
1 5 10

<210> 62
<211> 15
<212> DNA
<213> Synthetic

<400> 62
ttttccatga tttat 15

<210> 63
<211> 15
<212> DNA
<213> Synthetic

<220>
<221> Noncoding
<222> (1)..(15)

<400> 63
aacattttgg ttttt 15

<210> 64
<211> 12
<212> DNA
<213> Synthetic

<400> 64
tccatgattt at 12

<210> 65
<211> 501
<212> DNA
<213> Staphylococcus aureus

<400> 65
atgtctgcta tcattgaagc taaaaaacaa ctagttgatg aaattgctga ggtactatca 60

aattcagttt caacagtaat cgttgactat cgtggattaa cagtagctga agttactgac 120

ttacgttcac aattacgtga agctggtgtt gagtataaag tatacaaaaa cactatggta 180

cgtcgtgcag ctgaaaaagc tggtatcgaa ggcttagatg aattcttaac aggtcctact 240

gctattgcaa cttcaagtga agatgctgta gctgcagcga aagtaatttc tggatttgct 300

aaagatcatg aagcattaga aattaaatca ggtgttatgg aaggcaatgt tattacagca 360

gaagaagtta aaactgttgg ttcattacct tcacacgatg gtcttgtatc tatgctttta 420

tcagtattac aagctcctgt acgcaacttc gcttatgcgg ttaaagctat tggagaacaa 480

aaagaagaaa acgctgaata a 501

<210> 66
<211> 423
<212> DNA
<213> Staphylococcus aureus

<400> 66
gtggctaaaa aagtagataa agttgttaaa ttacaaattc ctgcaggtaa agcgaatcca 60

gcaccaccag ttggtccagc attaggtcaa gcaggtgtga acatcatggg attctgtaaa 120

gagttcaatg cacgtactca agatcaagca ggtttaatta ttccggtaga aatcagtgtt 180

tatgaagatc gttcatttac atttattaca aaaactccac cggctccagt attacttaaa 240

aaagcagctg gtattgaaaa aggttcaggc gaaccaaaca aaactaaagt tgctacagta 300

actaaagatc aagtacgcga aattgctaac agcaaaatgc aagacttaaa cgctgctgac 360

gaagaagcag ctatgcgtat tatcgaaggt actgcacgta gtatgggtat cgttgtagaa 420

taa 423

<210> 67
<211> 438
<212> DNA
<213> Staphylococcus aureus

<400> 67
atgcgtcaaa catttatggc aaatgaatca aacattgagc gcaaatggta tgttatcgat 60

gctgaaggcc aaacattagg tcgtttatca tcagaagtag catctatctt acgcggtaaa 120

ataaaagtaa cttacacacc acacgttgat actggtgatt atgtaatcgt tattaatgca 180

tcaaaaatcg aatttactgg taacaaagaa actgacaaag tttactaccg tcactcaaat 240

catccaggtg gtatcaaatc aatcactgct ggtgaattaa gaagaactaa cccagaacgt 300

ttaattgaaa actcaattaa aggtatgtta ccaagcactc gtttaggcga aaaacaaggt 360

aaaaaattat ttgtatatgg tggcgctgaa catccacacg ctgcacaaca accagaaaac 420

tacgaattac gtggttaa 438

<210> 68
<211> 369
<212> DNA
<213> Staphylococcus aureus

<400> 68
atgatccaac aagaaacacg cttgaaagta gcagacaact ctggtgctcg tgaagttctt 60

acaatcaaag tattaggtgg atctggtcgt aaaacagcaa acatcggcga tgttatcgta 120

tgtactgtta aaaatgcaac accaggtggc gttgttaaaa aaggtgacgt tgtcaaagct 180

gtaatcgtac gtactaagtc aggtgttcgt cgtaatgacg gttcatacat caaatttgat 240

gaaaatgcat gtgttatcat ccgtgatgac aaaggcccac gtggtactcg tatcttcgga 300

cctgttgctc gtgaattacg tgaaggtaac ttcatgaaaa tcgtatcatt agcaccagaa 360

gtactttaa 369

<210> 69
<211> 441
<212> DNA
<213> Staphylococcus aureus

<400> 69
atgaaattac atgagttaaa accggcagaa ggttcacgta aagaacgcaa tcgtgttgga 60

cgtggtgttg cgacaggtaa tggtaaaaca agtggtcgcg gacacaaagg tcaaaaagct 120

cgttcaggcg gtggtgtaag accaggattt gaaggtggtc aattaccatt attccgtcgt 180

ttaccaaaac gtggttttac taacataaat cgtaaagaat atgctattgt taacttagac 240

caacttaata aatttgaaga tggtactgaa gtaactccag ctttattagt agaatctggt 300

gttgttaaga atgaaaaatc tggtatcaaa atactaggta atggttcact tgataagaaa 360

ttgacagtga aagctcataa attctcagct tcagcagcag aagctattga tgctaaaggt 420

ggagcacacg aggtgatcta a 441

<210> 70
<211> 434
<212> DNA
<213> Staphylococcus aureus

<400> 70
atgttactac caaaacgtgt aaaatatcgt cgtcaacatc gtcctaaaac aactggtcgt 60

tctaaaggcg gtaactacgt aacatttggt gagtttggtt tacaagctac aacaacgtct 120

tggatcacat ctcgtcaaat cgaatctgct cgtatagcaa tgacacgtta catgaaacgt 180

ggcgggaaag tttggattaa aatcttccca catacaccat atactaaaaa acctttagaa 240

gtacgtatgg gtgctggtaa aggtgcggtt gaaggctgga tcgcagttgt taaaccaggt 300

agaattttat tcgaagttgc tggcgtttct gaagagttgc gcgtgaagca ctacgtttag 360

caagtcacaa acttccagta aaaactaagt ttgtaaaacg tgaggaattg ggtggtgaaa 420

caaatgaaag ctaa 434

<210> 71
<211> 360
<212> DNA
<213> Staphylococcus aureus

<400> 71
atgatcagta aaattgataa aaataaagtg cgtttaaaaa gacatgctcg tgttcgtact 60

aacttatcag gtacagctga aaagccacgt ttaaacgtat atcgttcaaa caagcatatc 120

tacgctcaaa ttattgatga taataaaggc gtaacattag ctcaagcttc ttcaaaagac 180

agcgacattg ctactacagc aactaaagtt gaattagcaa ctaaagtcgg tgaagcaatt 240

gctaaaaaag ctgctgacaa aggcattaaa gaaatcgtat ttgaccgtgg aggatattta 300

tatcacggac gtgttaaagc attagctgaa gcagcaagag aaagcggatt agaattttaa 360

<210> 72
<211> 351
<212> DNA
<213> Staphylococcus aureus

<400> 72
atgacaaatc acaaattaat cgaagcagta actaaatcac aattgcgtac agacttacca 60

agtttccgtc ctggtgatac tttacgtgta cacgtacgta tcattgaggg tactcgtgag 120

cgtatccaag tattcgaagg cattgtaatt aaacgtcgtg gcggtggcgt ttctgaaacg 180

tttacagttc gtaaaatttc atcaggtgtt ggcgtggaac gtacattccc attacacaca 240

ccaaaaattg aaaaaatcga agttaaacgt cgtggtaaag tacgtcgtgc taaattatat 300

tacttacgta gtttacgtgg taaagctgct agaatccaag aaattcgtta a 351

<210> 73
<211> 693
<212> DNA
<213> Staphylococcus aureus

<400> 73
atggctaaaa aaggtaaaaa gtatcaagaa gcagctagta aagttgaccg tactcagcac 60

tacagtgttg aagaagcaat taaattagct aaagaaacaa gcattgctaa ctttgacgct 120

tctgttgaag ttgcattccg tttaggaatt gatacacgta aaaatgacca acaaatccgt 180

ggtgcagttg tattaccaaa cggaactggt aaatcacaaa gtgtattagt attcgctaaa 240

ggtgacaaaa ttgctgaagc tgaagcagca ggtactgact atgtaggtga agcagaatac 300

gttcaaaaaa tccaacaagg ttggttcgac ttcgatgtag tagttgctac accagacatg 360

atgggtgaag ttggtaaatt aggtcgtgta ttaggaccaa aaggtttaat gccaaaccct 420

aaaactggaa ctgtaacaat ggatgttaaa aaagctgttg aagaaatcaa agctggtaaa 480

gtagaatatc gtgctgaaaa agctggtatc gtacatgcat caattggtaa agtttcattt 540

actgatgaac aattaattga aaacttcaat actttacaag atgtattagc taaagctaaa 600

ccatcatctg ctaaaggtac atacttcaaa tctgttgctg taactacaac aatgggtcct 660

ggagttaaaa ttgatactgc aagtttcaaa taa 693

<210> 74
<211> 357
<212> DNA
<213> Staphylococcus aureus

<400> 74
atgccacgag ttaaaggtgg aacagtaaca agagcgcgtc gtaaaaaaac gattaaatta 60

gctaaaggtt acttcggttc aaaacataca ttatacaaag tagctaagca acaagtaatg 120

aaatcaggtc aatatgcttt ccgtgaccgt cgtcaacgta aacgtgactt ccgtaaatta 180

tggattacac gtatcaacgc agcagctcgt caacatgaaa tgagctactc acgtttaatg 240

aacggtttga aaaaagctgg tatcgacatt aaccgtaaaa tgttatcaga aatcgcaatt 300

tctgacgaaa aagcatttgc tcaattagta actaaagcta aagatgcttt aaaataa 357

<210> 75
<211> 309
<212> DNA
<213> Staphylococcus aureus

<400> 75
atgtttgcta ttattgaaac aggtggaaaa caaatcaaag tagaagaagg tcaagaaatc 60

ttcgttgaaa aattagacgt aaacgaagga gatactttta catttgataa agtattattt 120

gtaggtggag attcagttaa agttggagcg ccaacagttg aaggtgcaac agttactgct 180

actgttaata aacaaggtcg cggtaaaaaa atcactgtat tcacatacaa acgtcgtaaa 240

aattcaaaac gtaaaaaagg ccatcgtcaa ccatacacta aattaacaat cgataaaatc 300

aacgcgtaa 309

<210> 76
<211> 354
<212> DNA
<213> Staphylococcus aureus

<400> 76
atggaagcaa aagcggttgc tagaacaata agaatcgcac ctcgtaaagt aagactagtt 60

cttgacttaa tcagaggtaa aaatgctgct gaagctattg caattttaaa attaacaaac 120

aaagcttcat caccagtaat tgaaaaagta ttaatgtccg ctttagctaa tgctgaacat 180

aactatgaca tgaacacaga tgaattagta gttaaagaag catatgctaa cgaaggacca 240

acattaaaac gtttccgtcc acgtgcgcaa ggtcgtgcaa gtgcgattaa caaacgtaca 300

agccacatta caatcgtcgt aagtgacggt aaagaagaag ctaaagaagc ttaa 354

<210> 77
<211> 276
<212> DNA
<213> Staphylococcus aureus

<400> 77
atggaagcaa gagatattct taagcgcccc gtaatcactg agaaatcttc tgaagcaatg 60

gctgaagaca aatacacttt cgacgttgat actcgtgtta acaaaacaca agtaaaaatg 120

gcagttgaag aaatcttcaa cgtaaaagtt gcaagtgtta atatcatgaa ttacaaacct 180

aagaaaaaac gtatgggccg ttaccaaggc tatacaaaca aaagaagaaa agcgattgta 240

actcttaaag aaggatcaat cgacttattt aactaa 276

<210> 78
<211> 285
<212> DNA
<213> Staphylococcus aureus

<400> 78
atgttaaaat taaacttaca attcttcgca tctaaaaaag gggtaagttc tacaaaaaac 60

ggacgtgact ctgaatcaaa acgcttaggt gctaaacgtg ctgacggtca attcgtaaca 120

ggtggttcaa ttttatatcg ccaacgtggt actaaaattt accctggtga aaatgtaggt 180

cgtggtggcg atgatacatt attcgctaaa atcgacggcg ttgttaaatt cgaacgtaaa 240

ggtcgcgaca aaaaacaagt ttctgtatat gcagtagctg aataa 285

<210> 79
<211> 189
<212> DNA
<213> Staphylococcus aureus

<400> 79
atgggtaaac aatgtttcgt aacaggtcgt aaagcttcga ctggtaacag acgttcacac 60

gctttaaact ctactaaacg tagatggaac gctaaccttc aaaaagttag aatcctagtt 120

gacggtaaac ctaaaaaagt ttgggtttct gcacgtgctt taaaatctgg taaagtaact 180

agagtttaa 189

<210> 80
<211> 834
<212> DNA
<213> Staphylococcus aureus

<400> 80
atggctatta aaaagtataa gccaataaca aatggtcgtc gtaatatgac ttcgttagat 60

ttcgcagaaa tcacgaaaac tacacctgaa aagtcattat taaaaccgct accgaaaaaa 120

gcgggacgta acaaccaagg taaattgact gtaagacacc atggtggtgg acacaaacgt 180

caataccgtg ttatcgattt taaacgtaac aaagatggta tcaatgcaaa agttgattct 240

attcaatatg atccaaaccg ctcagcaaac atcgctttag ttgtatatgc agacggtgaa 300

aaacgatata tcattgctcc taaaggatta gaagtaggtc aaatcgttga aagtggtgct 360

gaagctgaca tcaaagttgg taacgcatta ccattacaaa acattccagt tggtacagta 420

gtacacaaca tcgagcttaa acctggtaaa ggtggacaaa tcgctcgttc agctggtgca 480

agtgctcaag tacttggtaa agaaggtaaa tacgtattaa tcagattaag atctggtgaa 540

gttcgtatga tcttatctac ttgccgtgct acaatcggtc aagttggtaa cctacaacac 600

gaattagtta acgttggtaa agccggacgt tcaagatgga aaggtatccg tccaacagtt 660

cgtggttctg taatgaaccc taacgatcac ccacacggtg gtggtgaagg tcgtgctcct 720

atcggtagac catctccaat gtcaccatgg ggtaaaccta cgcttggtaa gaaaactcgt 780

cgtggtaaaa aatcatcaga caaacttatc gttcgtggac gtaagaaaaa ataa 834

<210> 81
<211> 180
<212> DNA
<213> Staphylococcus aureus

<400> 81
atggctaaat tacaaattac cctcactcgt agtgttattg gtcgtcctga aacacaacgt 60

aaaactgttg aagctttagg tcttaaaaag actaacagtt cagtagttgt tgaagataac 120

cctgctattc gtgggcaaat caacaaagtt aagcacttag taacagtaga agaaaaataa 180

<210> 82
<211> 174
<212> DNA
<213> Staphylococcus aureus

<400> 82
atggcagtac caaaaagaag aacttctaaa actagaaaaa acaaacgtcg tacgcatttc 60

aaaatttcag taccaggtat gactgaatgc ccaaactgtg gcgaatacaa attatcacac 120

cgtgtatgta aaaactgtgg ttcttacaat ggcgaagaag tagcagctaa ataa 174

<210> 83
<211> 138
<212> DNA
<213> Staphylococcus aureus

<400> 83
atggtaaaac gtacttatca accaaataaa cgtaaacata gtaaagttca tggtttcaga 60

aaacgcatga gcacaaaaaa tggccgtaaa gttttagcgc gccgtcgtcg taaaggccgt 120

aaagttttat ctgcataa 138

<210> 84
<211> 663
<212> DNA
<213> Staphylococcus aureus

<400> 84
atgaccaaag gaatcttagg aagaaaaatt gggatgacac aagtattcgg agaaaacggt 60

gaattaatcc ctgtaacagt agtagaagct aaagaaaatg ttgtattaca aaagaaaact 120

gtagaagttg atggatacaa cgcaatccaa gttggatttg aagacaaaaa agcatacaaa 180

aaagatgcaa aatctaataa atatgctaat aaaccagctg aaggtcacgc taaaaaagct 240

gacgcagcac ctaagcgctt cattcgtgaa ttccgcaatg tagacgtgga tgcttacgaa 300

gtaggtcaag aagtctcagt agatactttt gtagctggcg acgttattga cgtaacaggc 360

gtatcaaaag gtaaaggttt ccaaggtgca attaaacgcc acggacaatc tcgtggacct 420

atgtcacacg gttctcattt ccacagagca ccaggttctg taggtatggc ttcagatgct 480

tctagagtat ttaaaggcca aaaaatgcca ggacgtatgg gtggaaacac tgtaactgtt 540

caaaacttag aagtagttca agttgacaca gaaaacaaag ttatcttagt aaaaggtaac 600

gtacctggac ctaaaaaagg tttagtagaa atcagaactt caattaaaaa aggtaataaa 660

taa 663

<210> 85
<211> 540
<212> DNA
<213> Staphylococcus aureus

<400> 85
ttgaaccgtt taaaagaaaa gtttaacact gaagttactg aaaacttaat gaaaaaattc 60

aattatagtt cagtaatgga agtaccaaaa atagataaaa tcgttgtgaa catgggtgta 120

ggtgacgcag tacaaaattc taaagtatta gacaatgctg ttgaagaatt agaattgatc 180

actggtcaaa aaccattagt aactaaagct aaaaaatcaa tcgcgacttt ccgtttacgt 240

gaaggtatgc caatcggtgc gaaagtaaca cttcgcggtg aaagaatgta tgaattctta 300

gacaaattaa tttcagtatc attaccacgt gtacgtgact tccaaggtgt ttctaaaaaa 360

gcatttgacg gacgcggtaa ctacacttta ggtgttaaag aacaattaat tttcccagaa 420

atcgactatg ataaagtaag taaagttaga ggaatggata ttgttatcgt aacgactgct 480

aacactgatg aagaagctcg tgaattgtta gctaacttcg gtatgccatt ccgtaaataa 540

<210> 86
<211> 537
<212> DNA
<213> Staphylococcus aureus

<400> 86
atgagtcgtg ttggtaagaa aattattgac atccctagtg acgtaacagt aacttttgat 60

ggaaatcatg taactgttaa aggtcctaaa ggtgaattat caagaacttt aaatgaaaga 120

atgacattca aacaagaaga aaacacaatt gaagttgtaa gaccatctga ttctaaagaa 180

gatagaacaa accatggtac aactcgtgct ttattaaaca atatggtaca aggtgtttct 240

caaggatacg taaaagtact tgaacttgtt ggtgtaggtt accgtgctca aatgcaaggt 300

aaagacttaa tccttaacgt tggttattct cacccagtag aaattaaagc tgaagaaaac 360

attactttct cagttgagaa aaacacagtc gttaaagttg aaggtatttc aaaagaacaa 420

gttggagcat tagcatctaa catccgttca gtaagacctc cagagcctta caaaggtaaa 480

ggtattcgtt accaaggtga atacgttcgc cgtaaagaag gtaaaactgg taaataa 537

<210> 87
<211> 369
<212> DNA
<213> Staphylococcus aureus

<400> 87
atggctaatc atgaacaaat cattgaagcg attaaagaaa tgtcagtatt agaattaaac 60

gacttagtaa aagcaattga agaagaattt ggtgtaactg cagctgctcc agtagcagta 120

gcaggtgcag ctggtggcgc tgacgctgca gcagaaaaaa ctgaatttga cgttgagtta 180

acttcagctg gttcatctaa aatcaaagtt gttaaagctg ttaaagaagc aactggttta 240

ggattaaaag atgctaaaga attagtagac ggagctccta aagtaatcaa agaagcttta 300

cctaaagaag aagctgaaaa acttaaagaa caattagaag aagttggagc tactgtagaa 360

ttaaaataa 369

<210> 88
<211> 390
<212> DNA
<213> Staphylococcus aureus

<400> 88
atggcacgta aacaagtatc tcgtaaacgt agagtgaaaa agaatattga aaatggtgta 60

gcacacatcc gttcaacatt caacaacact attgtaacta tcactgatga gttcggtaat 120

gctttatcat ggtcatcagc tggtgcatta ggattcaaag gatctaaaaa atcaacacca 180

tttgcagcac aaatggcttc tgaaactgca tctaaatcag ctatggagca tggtttaaaa 240

acagttgaag taacagttaa aggacctggt ccaggtcgtg aatcagctat tcgtgcatta 300

caatctgcag gtttagaagt aactgcgatc agagacgtta ctccagtacc tcataacggt 360

tgtcgtccac caaaacgtcg tcgtgtataa 390

<210> 89
<211> 414
<212> DNA
<213> Staphylococcus aureus

<400> 89
atgccaacta ttaaccaatt agtacgtaaa ccaagacaaa gcaaaatcaa aaaatcagat 60

tctccagctt taaataaagg tttcaacagt aaaaagaaaa aatttactga cttaaactca 120

ccacaaaaac gtggtgtatg tactcgtgta ggtacaatga cacctaaaaa acctaactca 180

gcgttacgta aatatgcacg tgtgcgttta tcaaacaaca tcgaaattaa cgcatacatc 240

cctggtatcg gacataactt acaagaacac agtgttgtac ttgtacgtgg tggacgtgta 300

aaagacttac caggtgtgcg ttaccatatt gtacgtggag cacttgatac ttcaggtgtt 360

gacggacgta gacaaggtcg ttcattatac ggaactaaga aacctaaaaa ctaa 414

<210> 90
<211> 366
<212> DNA
<213> Staphylococcus aureus

<400> 90
atggcacgta ttgcaggagt agatattcca cgtgaaaaac gcgtagttat ctcattaact 60

tatatatacg gtatcggtac gtcaactgct caaaaaattc ttgaagaagc taacgtatca 120

gctgatactc gtgtgaaaga tttaactgat gacgaattag gtcgcatccg tgaagttgta 180

gacggttata aagtcgaagg tgacttacgt cgtgaaacta acttaaatat caaacgttta 240

atggaaattt catcataccg tggtatccgt caccgtcgtg gtttaccagt tcgtggtcaa 300

aaaacgaaaa acaacgcgcg tactcgtaaa ggaccagtta aaacggtagc taacaagaaa 360

aaataa 366

<210> 91
<211> 186
<212> DNA
<213> Staphylococcus aureus

<400> 91
gtggctaaaa cttcaatggt tgctaagcaa caaaaaaaac aaaaatatgc agttcgtgaa 60

tacactcgtt gtgaacgttg tggccgtcca cattctgtat atcgtaaatt taaattatgc 120

cgtatttgtt tccgtgaatt agcttacaaa ggccaaatcc ctggcgttcg taaagctagc 180

tggtaa 186

<210> 92
<211> 270
<212> DNA
<213> Staphylococcus aureus

<400> 92
atggcaattt cacaagaacg taaaaacgaa atcattaaag aataccgtgt acacgaaact 60

gatactggtt caccagaagt acaaatcgct gtacttactg cagaaatcaa cgcagtaaac 120

gaacacttac gtacacacaa aaaagaccac cattcacgtc gtggattatt aaaaatggta 180

ggtcgtcgta gacatttatt aaactactta cgtagtaaag atattcaacg ttaccgtgaa 240

ttaattaaat cacttggtat ccgtcgttaa 270

<210> 93
<211> 264
<212> DNA
<213> Staphylococcus aureus

<400> 93
gtgagcgaaa gaaacgatcg taaagtttat gtaggtaaag ttgtttcaga caaaatggac 60

aagactatta cagtacttgt tgaaacttac aaaacacaca aattatacgg taaacgagta 120

aaatactcta aaaaatacaa aactcatgat gaaaacaatt cagctaaatt aggagacatt 180

gttaaaattc aagaaactcg tcctttatca gcaacaaaac gttttcgtat agtagagatt 240

gttgaagagt cagtaattat ttaa 264

<210> 94
<211> 279
<212> DNA
<213> Staphylococcus aureus

<400> 94
atggctcgta gtattaaaaa aggacctttc gtcgatgagc atttaatgaa aaaagttgaa 60

gctcaagaag gaagcgaaaa gaaacaagta atcaaaacat ggtcacgtcg ttctacaatt 120

ttccctaatt tcatcggaca tacttttgca gtatacgacg gacgtaaaca cgtacctgta 180

tatgtaactg aagatatggt aggtcataaa ttaggtgagt ttgctcctac tcgtacattc 240

aaaggacacg ttgcagacga caagaaaaca agaagataa 279

<210> 95
<211> 177
<212> DNA
<213> Staphylococcus aureus

<400> 95
atgtctaaaa cagtagtacg taaaaatgaa tcacttgaag atgcgttacg tagatttaaa 60

cgttcagttt ctaaaagtgg aacaatccaa gaagtacgta aacgtgaatt ttacgaaaaa 120

ccaagcgtaa aacgtaaaaa gaaatcagaa gctgcacgta aacgtaaatt caaataa 177

<210> 96
<211> 654
<212> DNA
<213> Staphylococcus aureus

<400> 96
gtgggtcaaa aaattaatcc aatcggactt cgtgttggta ttatccgtga ttgggaagct 60

aaatggtatg ctgaaaaaga cttcgcttca cttttacacg aagatttaaa aatccgtaaa 120

tttattgata atgaattaaa agaagcatca gtttctcacg tagagattga acgtgctgca 180

aaccgtatca acattgcaat tcatactggt aaacctggta tggtaattgg taaaggcggt 240

tcagaaatcg aaaaattacg caacaaatta aatgcgttaa ctgataaaaa agtacacatc 300

aacgtaattg aaatcaaaaa agttgatctt gacgctcgtt tagtagctga aaacatcgca 360

cgtcaattag aaaaccgtgc ttcattccgt cgtgtacaaa aacaagcaat cactagagct 420

atgaaacttg gtgctaaagg tatcaaaact caagtatctg gtcgtttagg cggagctgac 480

atcgctcgtg ctgaacaata ttcagaagga actgttccac ttcatacgtt acgtgctgac 540

atcgattatg cacacgctga agctgacact acttacggta aattaggcgt taaagtatgg 600

atctatcgtg gagaagttct tcctactaag aacactagtg gaggaggaaa ataa 654

<210> 97
<211> 603
<212> DNA
<213> Staphylococcus aureus

<400> 97
atggctcgat tcagaggttc aaactggaaa aaatctcgtc gtttaggtat ctctttaagc 60

ggtactggta aagaattaga aaaacgtcct tacgcaccag gacaacatgg tccaaaccaa 120

cgtaaaaaat tatcagaata tggtttacaa ttacgtgaaa aacaaaaatt acgttactta 180

tatggaatga ctgaaagaca attccgtaac acatttgaca tcgctggtaa aaaattcggt 240

gtacacggtg aaaacttcat gattttatta gcaagtcgtt tagacgctgt tgtttattca 300

ttaggtttag ctcgtactcg tcgtcaagca cgtcaattag ttaaccacgg tcatatctta 360

gtagatggta aacgtgttga tattccatct tattctgtta aacctggtca aacaatttca 420

gttcgtgaaa aatctcaaaa attaaacatc atcgttgaat cagttgaaat caacaatttc 480

gtacctgagt acttaaactt tgatgctgac agcttaactg gtactttcgt acgtttacca 540

gaacgtagcg aattacctgc tgaaattaac gaacaattaa tcgttgagta ctactcaaga 600

taa 603

<210> 98
<211> 501
<212> DNA
<213> Staphylococcus aureus

<400> 98
atggctcgta gagaagaaga gacgaaagaa tttgaagaac gcgttgttac aatcaaccgt 60

gtagcaaaag ttgtaaaagg tggtcgtcgt ttccgtttca ctgcattagt tgtagttgga 120

gacaaaaatg gtcgtgtagg tttcggtact ggtaaagctc aagaggtacc agaagcaatc 180

aaaaaagctg ttgaagcagc taaaaaagat ttagtagttg ttccacgtgt tgaaggtaca 240

actccacaca caattactgg ccgttacggt tcaggaagcg tatttatgaa accggctgca 300

cctggtacag gagttatcgc tggtggtcct gttcgtgccg tacttgaatt agcaggtatc 360

actgatatct taagtaaatc attaggatca aacacaccaa tcaacatggt tcgtgctaca 420

atcgatggtt tacaaaacct taaaaatgct gaagatgttg cgaaattacg tggcaaaaca 480

gtagaagaat tatacaatta a 501

<210> 99
<211> 297
<212> DNA
<213> Staphylococcus aureus

<400> 99
atgagaacat atgaagttat gtacatcgta cgcccaaaca ttgaggaaga tgctaaaaaa 60

gcgttagttg aacgtttcaa cggtatctta gctactgaag gtgcagaagt tttagaagca 120

aaagactggg gtaaacgtcg cctagcttat gaaatcaatg atttcaaaga tggcttctac 180

aacatcgtac gtgttaaatc tgataacaac aaagctactg acgaattcca acgtctagct 240

aaaatcagtg acgatatcat tcgttacatg gttattcgtg aagacgaaga caagtaa 297

<210> 100
<211> 471
<212> DNA
<213> Staphylococcus aureus

<400> 100
atgcctcgta aaggatcagt acctaaaaga gacgtattac cagatccaat tcataactct 60

aagttagtaa ctaaattaat taacaaaatt atgttagatg gtaaacgtgg aacagcacaa 120

agaattcttt attcagcatt cgacctagtt gaacaacgca gtggtcgtga tgcattagaa 180

gtattcgaag aagcaatcaa caacattatg ccagtattag aagttaaagc tcgtcgtgta 240

ggtggttcta actatcaagt accagtagaa gttcgtccag agcgtcgtac tactttaggt 300

ttacgttggt tagttaacta tgcacgtctt cgtggtgaaa aaacgatgga agatcgttta 360

gctaacgaaa ttttagatgc agcaaataat acaggtggtg ccgttaagaa acgtgaggac 420

actcacaaaa tggctgaagc aaacaaagca tttgctcact accgttggta a 471

<210> 101
<211> 321
<212> DNA
<213> Staphylococcus aureus

<400> 101
atgattactg ttgatattac agttaatgat gaaggcaaag taacagacgt tattatggat 60

ggccatgctg accatggtga atatggtcat gatatcgttt gtgctggagc ttcagctgta 120

ttgtttggta gtgttaatgc gattatagga ttgacatctg agagaccaga tatcaattat 180

gacgacaatg gtggtcattt tcatataaga agcgttgata caaacaacga tgaagcgcaa 240

ctaattcttc aaacaatgct tgtgtcttta caaactattg aagaagaata taatgagaat 300

attagattaa attataagtg a 321