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<140> SG 2009 08285-0

<141> 2009-12-14

<150> 61/203,664

<151> 2008-12-24

<160> 42

<170> PatentIn version 3.5

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<213> Staphylococcus aureus

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<213> Staphylococcus aureus

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<212> DNA

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tccgcgaatc tgctggcgga ggctaaaaag ctgaacgaat ccagggtcc gaaa 174

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Gln Ser Ala Asn Val Leu Gly Glu Ala Gln Lys Leu Asn Asp Ser Gln
 35 40 45

Ala Pro Lys
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<210> 8
<211> 61
<212> PRT
<213> Staphylococcus aureus

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35 40 45

Gly Glu Ala Lys Lys Leu Asn Glu Ser Gln Ala Pro Lys
50 55 60

<210> 9
<211> 58
<212> PRT
<213> Staphylococcus aureus

<400> 9
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1 5 10 15

Leu Asn Met Pro Asn Leu Asn Glu Glu Gln Arg Asn Gly Phe Ile Gln
20 25 30

Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala
35 40 45

Lys Lys Leu Asn Glu Ser Gln Ala Pro Lys
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<210> 10
<211> 58
<212> PRT
<213> Staphylococcus aureus

<400> 10
Ala Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile
1 5 10 15

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 20 25 30

Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala
 35 40 45

Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys
 50 55

<210> 11

<211> 58

<212> PRT

<213> Staphylococcus aureus

<400> 11

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 20 25 30

Ser Leu Lys Asp Asp Pro Ser Val Ser Lys Glu Ile Leu Ala Glu Ala
 35 40 45

Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys
 50 55

<210> 12

<211> 58

<212> PRT

<213> Staphylococcus aureus

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 20 25 30

Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala
 35 40 45

Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys
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<210> 13
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<220>
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Ile Leu His Leu Pro Asn Leu Asn Glu Gln Gln Arg Asn Gly Phe Ile
 20 25 30

Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu
 35 40 45

Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys His His His His His
 50 55 60

His
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<210> 14
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
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 1 5 10 15

Ile Leu His Leu Pro Asn Leu Asn Met Glu Gln Arg Asn Gly Phe Ile
 20 25 30

Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu
 35 40 45

Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys His His His His His
 50 55 60

His
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 <213> Artificial Sequence

<220>
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 1 5 10 15
 Ile Leu His Leu Pro Asn Leu Asn Ile Glu Gln Arg Asn Gly Phe Ile
 20 25 30
 Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu
 35 40 45
 Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys His His His His His
 50 55 60

His
 65

<210> 16
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 16
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 1 5 10 15
 Ile Leu His Leu Pro Asn Leu Asn Phe Glu Gln Arg Asn Gly Phe Ile
 20 25 30
 Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu
 35 40 45
 Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys His His His His His
 50 55 60

His
65

<210> 17
<211> 65
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 17
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1 5 10 15

Ile Leu His Leu Pro Asn Leu Asn Thr Glu Gln Arg Asn Gly Phe Ile
20 25 30

Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu
35 40 45

Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys His His His His His
50 55 60

His
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<210> 18
<211> 65
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

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1 5 10 15

Ile Leu His Leu Pro Asn Leu Asn Pro Glu Gln Arg Asn Gly Phe Ile
20 25 30

Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu
35 40 45

Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys His His His His His
50 55 60

His
65

<210> 19
<211> 65
<212> PRT
<213> Artificial Sequence

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1 5 10 15

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20 25 30

Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu
35 40 45

Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys His His His His His
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<210> 20
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20 25 30

Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu
35 40 45

Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys His His His His His
 50 55 60

His
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<210> 21
 <211> 65
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 <213> Artificial Sequence

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 1 5 10 15

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 20 25 30

Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu
 35 40 45

Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys His His His His His
 50 55 60

His
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<210> 22
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
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Ile Leu His Leu Pro Asn Leu Asn Leu Glu Gln Arg Asn Gly Phe Ile
 20 25 30

Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu
 35 40 45

Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys His His His His His
 50 55 60

His
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<210> 23
 <211> 65
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 20 25 30

Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu
 35 40 45

Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys His His His His His
 50 55 60

His
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<210> 24
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
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 polypeptide

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 20 25 30

Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys His His His His His
50 55 60

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<220>
<223> Description of Artificial Sequence: Synthetic
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1 5 10 15

Ile Leu His Leu Pro Asn Leu Asn Lys Glu Gln Arg Asn Gly Phe Ile
20 25 30

Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu
35 40 45

Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys His His His His His
50 55 60

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<210> 26
<211> 65
<212> PRT
<213> Artificial Sequence
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<220>
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Ile Leu His Leu Pro Asn Leu Asn Asp Glu Gln Arg Asn Gly Phe Ile
20 25 30

Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu
 35 40 45

Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys His His His His His
 50 55 60

His
 65

<210> 27
 <211> 292
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
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 acgcatttta cgagatcctg ctctgccgaa cctgaacgaa gaacaacgca acggtttcat 180
 tcagagcctg aaagacgacc catctcagtc cgctaacctg ctggcggaag caaagaagct 240
 gaacgatgca caggcgccga aacatcatca ccatcaccac taataaggat cc 292

<210> 28
 <211> 292
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 polynucleotide

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 acgcatttta cgagatcctg ctctgccgaa cctgatggaa gaacaacgca acggtttcat 180
 tcagagcctg aaagacgacc catctcagtc cgctaacctg ctggcggaag caaagaagct 240
 gaacgatgca caggcgccga aacatcatca ccatcaccac taataaggat cc 292

<210> 29
 <211> 292
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 polynucleotide

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 acgcatttta cgagatcctg ctctgccgaa cctgatagaa gaacaacgca acggtttcat180
 tcagagcctg aaagacgacc catctcagtc cgctaacctg ctggcggaag caaagaagct240
 gaacgatgca caggcgccga aacatcatca ccatcaccac taataaggat cc292

<210> 30
 <211> 292
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 polynucleotide

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 tttaactttaagaaggagatatacatatggcagacaataa gttcaataaa gagcagcaga120
 acgcatttta cgagatcctg ctctgccgaa cctgttcgaa gaacaacgca acggtttcat180
 tcagagcctg aaagacgacc catctcagtc cgctaacctg ctggcggaag caaagaagct240
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<210> 31
 <211> 292
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 polynucleotide

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 acgcatttta cgagatcctg ctctgccgaa cctgacagaa gaacaacgca acggtttcat180

tcagagcctg aaagacgacc catctcagtc cgctaacctg ctggcggaag caaagaagct 240
gaacgatgca caggcgccga aacatcatca ccatcaccac taataaggat cc 292

<210> 32
<211> 292
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

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tttaacttta agaaggagat atacatatgg cagacaataa gttcaataaa gagcagcaga 120
acgcatttta cgagatcctg ctctgccgaa cctgccagaa gaacaacgca acggtttcat 180
tcagagcctg aaagacgacc catctcagtc cgctaacctg ctggcggaag caaagaagct 240
gaacgatgca caggcgccga aacatcatca ccatcaccac taataaggat cc 292

<210> 33
<211> 292
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

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acgcatttta cgagatcctg ctctgccgaa cctgtgggaa gaacaacgca acggtttcat 180
tcagagcctg aaagacgacc catctcagtc cgctaacctg ctggcggaag caaagaagct 240
gaacgatgca caggcgccga aacatcatca ccatcaccac taataaggat cc 292

<210> 34
<211> 292
<212> DNA
<213> Artificial Sequence

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acgcatttta cgagatcctg ctctgccgaa cctgcgcgaa gaacaacgca acggtttcat	180
tcagagcctg aaagacgacc catctcagtc cgctaacctg ctggcggaag caaagaagct	240
gaacgatgca caggcgccga aacatcatca ccatcaccac taataaggat cc	292

<210> 35

<211> 292

<212> DNA

<213> Artificial Sequence

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tttaacttta agaaggagat atacatatgg cagacaataa gttcaataaa gagcagcaga 120

acgcatttta cgagatcctg ctctgccgaa cctggtggaa gaacaacgca acggtttcat 180

tcagagcctg aaagacgacc catctcagtc cgctaacctg ctggcggaag caaagaagct 240

gaacgatgca caggcgccga aacatcatca ccatcaccac taataaggat cc 292

<210> 36

<211> 292

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
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tttaacttta agaaggagat atacatatgg cagacaataa gttcaataaa gagcagcaga 120

acgcatttta cgagatcctg ctctgccgaa cctggtggaa gaacaacgca acggtttcat 180

tcagagcctg aaagacgacc catctcagtc cgctaacctg ctggcggaag caaagaagct 240

gaacgatgca caggcgccga aacatcatca ccatcaccac taataaggat cc 292

<210> 37

<211> 292

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic polynucleotide

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acgcatttta	cgagatcctg	ctctgccgaa	cctgtacgaa	gaacaacgca	acggtttcat	180
tcagagcctg	aaagacgacc	catctcagtc	cgctaacctg	ctggcggaag	caaagaagct	240
gaacgatgca	caggcgccga	aacatcatca	ccatcaccac	taataaggat	cc	292

<210> 38

<211> 292

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 38

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acgcatttta	cgagatcctg	ctctgccgaa	cctgcacgaa	gaacaacgca	acggtttcat	180
tcagagcctg	aaagacgacc	catctcagtc	cgctaacctg	ctggcggaag	caaagaagct	240
gaacgatgca	caggcgccga	aacatcatca	ccatcaccac	taataaggat	cc	292

<210> 39

<211> 292

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 39

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acgcatttta	cgagatcctg	ctctgccgaa	cctgaaagaa	gaacaacgca	acggtttcat	180
tcagagcctg	aaagacgacc	catctcagtc	cgctaacctg	ctggcggaag	caaagaagct	240
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<210> 40
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<220>
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 acgcatttta cgagatcctg ctctgcgaa cctggacgaa gaacaacgca acggtttcat 180
 tcagagcctg aaagacgacc catctcagtc cgctaacctg ctggcggaag caaagaagct 240
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<210> 42
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<220>
 <223> Description of Artificial Sequence: Synthetic
 6xHis tag

<400> 42
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