

SEQUENCE LISTING

<110> Novozymes A/S

<120> Antimicrobial Polypeptides

<130> 10425.204-WO

<160> 274

<170> PatentIn version 3.3

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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
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Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Gly	Gly	Xaa	Cys	Xaa	Xaa
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
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Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
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Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
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Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
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Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
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Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Gly Gly Phe Val Cys Lys Cys Tyr
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Gly Gly Phe Val Cys Lys Cys Tyr
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
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Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
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Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Gly Gly Phe Val Cys Lys Cys Tyr
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
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Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
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Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
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Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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Gly Gly Phe Val Cys Lys Cys Tyr
35 40

<210> 46
<211> 40
<212> PRT
<213> Artificial

<220>
<223> Synthetic antimicrobial polypeptide

<400> 46

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Phe Cys His
1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
35 40

<210> 47
<211> 40
<212> PRT
<213> Artificial

<220>
<223> Synthetic antimicrobial polypeptide

<400> 47

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gly Cys His
1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
35 40

<210> 48
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 48

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	His	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 49
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 49

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Ser	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 50
 <211> 40
 <212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 50

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Tyr	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 51

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 51

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	Leu	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 52

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 52

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Leu	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 53

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 53

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Val	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 54

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 54

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
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1 5 10 15

Asn His Cys Lys Ser Ile Lys His Tyr Lys Gly Gly Tyr Cys Ala Lys
20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
35 40

<210> 55
<211> 40
<212> PRT
<213> Artificial

<220>
<223> Synthetic antimicrobial polypeptide

<400> 55

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
1 5 10 15

Asn His Cys Lys Ser Ile Lys Lys Tyr Lys Gly Gly Tyr Cys Ala Lys
20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
35 40

<210> 56
<211> 40
<212> PRT
<213> Artificial

<220>
<223> Synthetic antimicrobial polypeptide

<400> 56

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
1 5 10 15

Asn His Cys Lys Ser Ile Lys Asn Tyr Lys Gly Gly Tyr Cys Ala Lys

20

25

30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 57
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 57

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Phe Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 58
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 58

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Arg Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr

35

40

<210> 59
 <211> 40
 <212> PRT
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<220>
 <223> Synthetic antimicrobial polypeptide

<400> 59

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Trp	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 60
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 60

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Lys	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 61

<211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 61

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Asn	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 62
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 62

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Gln	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 63
 <211> 40
 <212> PRT
 <213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 63

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Thr	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 64

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 64

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Tyr	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 65

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 65

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Lys Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 66
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 66

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gln Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 67
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 67

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Arg Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 68
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 68

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Lys Phe Val Cys Lys Cys Tyr
 35 40

<210> 69
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 69

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Arg Phe Val Cys Lys Cys Tyr
 35 40

<210> 70
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 70

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Leu Val Cys Lys Cys Tyr
 35 40

<210> 71
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 71

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Leu Cys Lys Cys Tyr
 35 40

<210> 72
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 72

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Met Cys Lys Cys Tyr
 35 40

<210> 73
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 73

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Thr Cys Lys Cys Tyr
 35 40

<210> 74
 <211> 40
 <212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 74

Gly	Phe	Gly	Cys	Lys	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Arg	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 75

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 75

Gly	Phe	Gly	Cys	Lys	Gly	Pro	Trp	Asp	Glu	Gly	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 76

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 76

Gly	Phe	Gly	Cys	Ser	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Arg	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ala	Ile	Arg	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 77

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 77

Gly	Phe	Gly	Cys	Ser	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Arg	Cys	His
1				5					10					15	

Ser	His	Cys	Lys	Ser	Ile	Arg	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 78

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 78

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Arg	Asp	Glu	Asp	Asp	Arg	Gln	Cys	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1				5					10					15		
Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys	
			20					25					30			

Gly Gly Phe Val Cys Lys Cys Tyr
35 40

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<210> 79
<211> 40
<212> PRT
<213> Artificial
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<220>
<223> Synthetic antimicrobial polypeptide

<400> 79

Gly Phe Gly Cys Asn Gly Pro Trp Gly Glu Asp Asp Met Arg Cys His
1 5 10 15

Asn His Cys Lys Ser Ile Arg Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
35 40

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<210> 80
<211> 40
<212> PRT
<213> Artificial
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<220>
<223> Synthetic antimicrobial polypeptide

<400> 80

Gly Phe Gly Cys Asn Gly Pro Trp Asp Gly Asp Asp Met Arg Cys His
1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys

20

25

30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 81
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 81

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Gly Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Arg
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 82
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 82

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Gly Asp Met Gln Cys His
 1 5 10 15

Ser His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr

35

40

<210> 83
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 83

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Gly	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Val	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 84
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 84

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asn	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Ile	Cys	Lys	Cys	Tyr
		35					40

<210> 85

<211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 85

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Arg	Asp	Ile	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 86
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 86

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Val	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Arg	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 87
 <211> 40
 <212> PRT
 <213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 87

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Arg	Cys	His
1				5				10						15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Arg	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Arg	Cys	Tyr
		35					40

<210> 88

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 88

Gly	Phe	Gly	Cys	Lys	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5				10						15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 89

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 89

Gly Phe Gly Cys Tyr Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 90
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 90

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Lys Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 91
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 91

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Leu Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 92
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 92

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Arg Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 93
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 93

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

His His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 94
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 94

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Ile His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 95
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 95

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Arg His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 96
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 96

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Tyr	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 97
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 97

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Arg	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 98
 <211> 40
 <212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 98

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Arg	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 99

<211> 41

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 99

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr	Arg
		35					40	

<210> 100

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 100

Gly	Phe	Gly	Cys	Tyr	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Leu	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 101

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 101

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Gly	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Arg	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 102

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 102

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Gly	Asp	Lys	Gln	Cys	His
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1				5					10					15		
Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Arg	Gly	Gly	Tyr	Cys	Ala	Lys	
			20					25					30			

Gly Gly Phe Val Cys Lys Cys Tyr
35 40

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<210> 103
<211> 41
<212> PRT
<213> Artificial
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<220>
<223> Synthetic antimicrobial polypeptide

<400> 103

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Lys Gln Cys His
1 5 10 15

Arg His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr Arg
35 40

<210>	104
<211>	41
<212>	PRT
<213>	Artificial

<220>
<223> Synthetic antimicrobial polypeptide

<400> 104

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
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Arg His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys

20

25

30

Gly Gly Phe Val Cys Lys Cys Tyr Arg
 35 40

<210> 105
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 105

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asn Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Phe Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 106
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 106

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Lys Gln Cys His
 1 5 10 15

Arg His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr

35

40

<210> 107
 <211> 41
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 107

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Lys	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr	Arg
		35					40	

<210> 108
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 108

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Lys	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Arg	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 109

<211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide
 <400> 109

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Lys Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Arg Cys Tyr
 35 40

<210> 110
 <211> 41
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide
 <400> 110

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Gly Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Arg Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr Arg
 35 40

<210> 111
 <211> 41
 <212> PRT
 <213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 111

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Gly	Asp	Lys	Gln	Cys	His
1				5				10					15		

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Arg	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr	Arg
		35					40	

<210> 112

<211> 41

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 112

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Arg	Cys	His
1				5				10					15		

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr	Arg
		35					40	

<210> 113

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 113

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Arg Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Ile Cys Lys Cys Tyr
 35 40

<210> 114
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 114

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Arg Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Arg Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 115
 <211> 40
 <212> PRT
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<220>
 <223> Synthetic antimicrobial polypeptide

<400> 115

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Phe Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Thr Lys
20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
35 40

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<210> 116
<211> 40
<212> PRT
<213> Artificial
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<220>
<223> Synthetic antimicrobial polypeptide

<400> 116

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Lys Cys His
1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Arg Gly Gly Tyr Cys Ala Lys
20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
35 40

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<210> 117
<211> 40
<212> PRT
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<220>
<223> Synthetic antimicrobial polypeptide

<400> 117

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Arg Lys Gly Gly Tyr Cys Ala Lys
20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 118
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 118

Gly Leu Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 119
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 119

Gly Trp Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 120
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 120

Gly	Ile	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 121
 <211> 40
 <212> PRT
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<220>
 <223> Synthetic antimicrobial polypeptide

<400> 121

Gly	Phe	Gly	Cys	Leu	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 122
 <211> 40
 <212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 122

Gly	Phe	Gly	Cys	Met	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 123

<211> 40

<212> PRT

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<220>

<223> Synthetic antimicrobial polypeptide

<400> 123

Gly	Phe	Gly	Cys	Asn	Arg	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 124

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 124

Gly	Phe	Gly	Cys	Asn	Ala	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 125

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 125

Gly	Phe	Gly	Cys	Asn	Lys	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 126

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 126

Gly	Phe	Gly	Cys	Asn	Gly	Ala	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 127
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 127

Gly Phe Gly Cys Asn Gly Leu Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 128
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 128

Gly Phe Gly Cys Asn Gly Val Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys

20

25

30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 129
 <211> 40
 <212> PRT
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<220>
 <223> Synthetic antimicrobial polypeptide

<400> 129

Gly Phe Gly Cys Asn Gly Pro Trp Cys Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 130
 <211> 40
 <212> PRT
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<220>
 <223> Synthetic antimicrobial polypeptide

<400> 130

Gly Phe Gly Cys Asn Gly Pro Trp Ile Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr

35

40

<210> 131
 <211> 40
 <212> PRT
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<220>

<223> Synthetic antimicrobial polypeptide

<400> 131

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Arg	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 132
 <211> 40
 <212> PRT
 <213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 132

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Trp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 133

<211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide
 <400> 133

Gly Phe Gly Cys Asn Gly Pro Trp Asp Ala Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 134
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide
 <400> 134

Gly Phe Gly Cys Asn Gly Pro Trp Asp Leu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 135
 <211> 40
 <212> PRT
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<220>

<223> Synthetic antimicrobial polypeptide

<400> 135

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Cys	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 136

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 136

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Gln	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 137

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 137

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Ala Asp Met Gln Cys His
1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
35 40

<210> 138
<211> 40
<212> PRT
<213> Artificial

<220>
<223> Synthetic antimicrobial polypeptide

<400> 138

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Cys Asp Met Gln Cys His
1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
35 40

<210> 139
<211> 40
<212> PRT
<213> Artificial

<220>
<223> Synthetic antimicrobial polypeptide

<400> 139

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Pro Met Gln Cys His
1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 140
 <211> 40
 <212> PRT
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<220>
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<400> 140

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Ala Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 141
 <211> 40
 <212> PRT
 <213> Artificial

<220>
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<400> 141

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 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 142
 <211> 40
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 <213> Artificial

<220>
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<400> 142

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 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 143
 <211> 40
 <212> PRT
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<220>
 <223> Synthetic antimicrobial polypeptide

<400> 143

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Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 144
 <211> 40
 <212> PRT
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<220>
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<400> 144

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Thr	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 145
 <211> 40
 <212> PRT
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<220>
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<400> 145

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Tyr	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 146
 <211> 40
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<223> Synthetic antimicrobial polypeptide

<400> 146

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Ala	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 147

<211> 40

<212> PRT

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<220>

<223> Synthetic antimicrobial polypeptide

<400> 147

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Cys	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 148

<211> 40

<212> PRT

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<220>

<223> Synthetic antimicrobial polypeptide

<400> 148

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Ile	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 149

<211> 40

<212> PRT

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<220>

<223> Synthetic antimicrobial polypeptide

<400> 149

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Lys	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 150

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 150

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Met	Cys	His
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1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
35 40

<210> 151
<211> 40
<212> PRT
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<220>
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<400> 151

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Pro Cys His
1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
35 40

<210> 152
<211> 40
<212> PRT
<213> Artificial

<220>
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<400> 152

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Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys

20

25

30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 153
 <211> 40
 <212> PRT
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<220>
 <223> Synthetic antimicrobial polypeptide

<400> 153

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Val Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 154
 <211> 40
 <212> PRT
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<220>
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<400> 154

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Trp Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr

35

40

<210> 155
 <211> 40
 <212> PRT
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<400> 155

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	Ala	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 156
 <211> 40
 <212> PRT
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<220>
 <223> Synthetic antimicrobial polypeptide

<400> 156

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
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Asn	Phe	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 157

<211> 40
 <212> PRT
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<220>
 <223> Synthetic antimicrobial polypeptide
 <400> 157

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn Gln Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 158
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide
 <400> 158

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn Thr Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 159
 <211> 40
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<220>

<223> Synthetic antimicrobial polypeptide

<400> 159

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
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Asn	Val	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

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<223> Synthetic antimicrobial polypeptide

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Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
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Asn	His	Cys	Gln	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 161

<211> 40

<212> PRT

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<223> Synthetic antimicrobial polypeptide

<400> 161

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Met Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 162
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 <212> PRT
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<400> 162

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
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Asn His Cys Lys Ser Thr Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 163
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<400> 163

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Trp Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 164
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<400> 164

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Ala Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 165
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 <212> PRT
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<400> 165

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
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Asn His Cys Lys Ser Ile Lys Pro Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 166
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<400> 166

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
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Asn His Cys Lys Ser Ile Lys Phe Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 167
 <211> 40
 <212> PRT
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<400> 167

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Ile Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 168
 <211> 40
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<400> 168

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gln	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 169
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<220>
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<400> 169

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Arg	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 170
 <211> 40
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<223> Synthetic antimicrobial polypeptide

<400> 170

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Ser	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 171

<211> 40

<212> PRT

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<220>

<223> Synthetic antimicrobial polypeptide

<400> 171

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Thr	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 172

<211> 40

<212> PRT

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<223> Synthetic antimicrobial polypeptide

<400> 172

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Tyr	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20				25						30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 173

<211> 40

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<220>

<223> Synthetic antimicrobial polypeptide

<400> 173

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	His	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20				25						30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 174

<211> 40

<212> PRT

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<220>

<223> Synthetic antimicrobial polypeptide

<400> 174

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
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Sn Hi

Ly Gl

210>
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Ly Ph

sn Hi

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1000

Ly Ph

sn Hi

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Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 177
 <211> 40
 <212> PRT
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 <223> Synthetic antimicrobial polypeptide

<400> 177

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Asn Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 178
 <211> 40
 <212> PRT
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<400> 178

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Gln Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr

35

40

<210> 179
 <211> 40
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<400> 179

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Ser	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 180
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<400> 180

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Val	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 181

<211> 40
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<220>
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<400> 181

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Phe	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 182
 <211> 40
 <212> PRT
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<220>
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<400> 182

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	His	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 183
 <211> 40
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<220>

<223> Synthetic antimicrobial polypeptide

<400> 183

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Thr	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

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<223> Synthetic antimicrobial polypeptide

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Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Ala	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 185

<211> 40

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<220>

<223> Synthetic antimicrobial polypeptide

<400> 185

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly His Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 186
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 186

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Leu Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 187
 <211> 40
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 <213> Artificial

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 <223> Synthetic antimicrobial polypeptide

<400> 187

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Met Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 188
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<400> 188

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Ser Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 189
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 189

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Glu Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 190
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Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys His Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 191
 <211> 40
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 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 191

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ile Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 192
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 192

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Arg	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 193
 <211> 40
 <212> PRT
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 <223> Synthetic antimicrobial polypeptide

<400> 193

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ser	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 194
 <211> 40
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<223> Synthetic antimicrobial polypeptide

<400> 194

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Val	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 195

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<223> Synthetic antimicrobial polypeptide

<400> 195

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Arg
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 196

<211> 40

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<223> Synthetic antimicrobial polypeptide

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Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Thr
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 197

<211> 40

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<223> Synthetic antimicrobial polypeptide

<400> 197

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Glu	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 198

<211> 40

<212> PRT

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<220>

<223> Synthetic antimicrobial polypeptide

<400> 198

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
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1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Asn Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 199
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 199

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
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Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Ser Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 200
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 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys

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Thr Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 201
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 <212> PRT
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<220>
 <223> Synthetic antimicrobial polypeptide

<400> 201

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly His Phe Val Cys Lys Cys Tyr
 35 40

<210> 202
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 202

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Trp Phe Val Cys Lys Cys Tyr

35

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<210> 203
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 <223> Synthetic antimicrobial polypeptide

<400> 203

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Ala	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 204
 <211> 40
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<220>
 <223> Synthetic antimicrobial polypeptide

<400> 204

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	His	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 205

<211> 40
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<400> 205

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Ile Val Cys Lys Cys Tyr
 35 40

<210> 206
 <211> 40
 <212> PRT
 <213> Artificial

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<400> 206

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Met Val Cys Lys Cys Tyr
 35 40

<210> 207
 <211> 40
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<223> Synthetic antimicrobial polypeptide

<400> 207

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5				10					15		

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Val	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 208

<211> 40

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<223> Synthetic antimicrobial polypeptide

<400> 208

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5				10					15		

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Trp	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 209

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 209

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Ile Cys Lys Cys Tyr
 35 40

<210> 210
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<220>
 <223> Synthetic antimicrobial polypeptide

<400> 210

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Lys Cys Lys Cys Tyr
 35 40

<210> 211
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<400> 211

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
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Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Gln Cys Lys Cys Tyr
 35 40

<210> 212
 <211> 40
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<220>
 <223> Synthetic antimicrobial polypeptide

<400> 212

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
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Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Arg Cys Lys Cys Tyr
 35 40

<210> 213
 <211> 40
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<400> 213

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
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Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys His Cys Tyr
 35 40

<210> 214
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<400> 214

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Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Asn Cys Tyr
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Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Arg Cys Tyr
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Ile
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<400> 217

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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Asn	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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<400> 218

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Leu	Asp	Ile	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

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<400> 219

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Arg	Gln	Cys	His
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Phe	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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<400> 220

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Asn	His	Cys	Lys	Ser	Ile	Arg	Gly	Tyr	Arg	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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<400> 221

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Arg	Cys	His
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Asn	His	Cys	Arg	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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<400> 222

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Ser	Cys	His
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1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
20 25 30

Gly Gly Phe Val Cys Arg Cys Tyr
35 40

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<400> 223

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1 5 10 15

Ser His Cys Lys Ser Ile Arg Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
35 40

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<400> 224

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Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Phe Cys Ala Arg

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Gly Gly Phe Val Cys Lys Cys Tyr
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Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Arg
 20 25 30

Gly Lys Phe Val Cys Lys Cys Tyr
 35 40

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<400> 226

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Arg His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr

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<400> 227

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Ser	Glu	Asp	Asp	Met	Lys	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Leu	Cys	Lys	Cys	Tyr
		35					40

<210> 228
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<400> 228

Gly	Phe	Gly	Cys	Ser	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Trp	Gln	Cys	His
1				5					10					15	

Arg	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 229

<211> 40
 <212> PRT
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<220>
 <223> Synthetic antimicrobial polypeptide
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Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Gly Gln Cys His
 1 5 10 15

Arg His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Ala Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 230
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 1 5 10 15

Val His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ser Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 231
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<400> 231

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Ser	Glu	Asp	Asp	Met	Leu	Cys	His
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Arg	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
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<210> 232

<211> 40

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<220>

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<400> 232

Gly	Phe	Gly	Cys	Ser	Gly	Pro	Trp	Ala	Glu	Asp	Asp	Met	Gln	Cys	His
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Arg	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 233

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<400> 233

Gly Phe Gly Cys Gly Gly Pro Trp Asp Glu Asp Asp Leu Gln Cys His
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Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 234
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<400> 234

Gly Phe Gly Cys Asn Gly Pro Trp Ala Glu Asp Asp Met Gln Cys His
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Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Arg Cys Tyr
 35 40

<210> 235
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<400> 235

Gly Phe Gly Cys Arg Gly Pro Trp Asp Glu Asp Asp Val Gln Cys His
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Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

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<400> 236

Gly Phe Gly Cys Gly Gly Pro Trp Asp Glu Asp Asp Tyr Gln Cys His
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Lys His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

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<400> 237

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Phe Lys Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Arg Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 238
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<220>
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<400> 238

Gly Phe Gly Cys Ala Gly Pro Trp Ser Glu Asp Asp Leu Gln Cys His
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Thr His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 239
 <211> 40
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 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 239

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Thr Lys Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Arg Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 240
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<400> 240

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Leu	Lys	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Arg	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 241
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<220>
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<400> 241

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asn	Glu	Asp	Asp	Leu	Arg	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 242
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<223> Synthetic antimicrobial polypeptide

<400> 242

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Ala	Glu	Asp	Asp	Met	His	Cys	His
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Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Arg	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Leu	Cys	Lys	Cys	Tyr
		35					40

<210> 243

<211> 40

<212> PRT

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<220>

<223> Synthetic antimicrobial polypeptide

<400> 243

Gly	Phe	Gly	Cys	Ser	Gly	Pro	Trp	Ser	Glu	Asp	Asp	Val	Gln	Cys	His
1				5					10					15	

Arg	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 244

<211> 40

<212> PRT

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<223> Synthetic antimicrobial polypeptide

<400> 244

Gly	Phe	Gly	Cys	Gly	Gly	Pro	Trp	Ser	Glu	Asp	Asp	Leu	Gln	Cys	His
1				5					10					15	

Gln	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Thr	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 245

<211> 40

<212> PRT

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<223> Synthetic antimicrobial polypeptide

<400> 245

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Val	Gln	Cys	His
1				5					10					15	

Thr	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 246

<211> 40

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<220>

<223> Synthetic antimicrobial polypeptide

<400> 246

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Ser	Glu	Asp	Asp	Leu	His	Cys	His
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1				5					10						15	
Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys	
			20					25					30			

Gly Gly Phe Val Cys Lys Cys Tyr
35 40

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<210> 247
<211> 40
<212> PRT
<213> Artificial
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<220>
<223> Synthetic antimicrobial polypeptide

<400> 247

Gly Phe Gly Cys Asn Gly Pro Trp Ser Glu Asp Asp Met Leu Cys His
1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
35 40

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<211> 40
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<220>
<223> Synthetic antimicrobial polypeptide

<400> 248

Gly Phe Gly Cys Asn Gly Pro Trp Asn Glu Asp Asp Met His Cys His
1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys

20

25

30

Gly Gly Phe Val Cys Arg Cys Tyr
 35 40

<210> 249
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic antimicrobial polypeptide

<400> 249

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Tyr Lys Cys His
 1 5 10 15

Asn His Cys Lys Ser Ile Lys Gly Tyr Arg Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 250
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<220>
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<400> 250

Gly Phe Gly Cys Ser Gly Pro Trp Ser Glu Asp Asp Met Gln Cys His
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Asn His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr

35

40

<210> 251
 <211> 40
 <212> PRT
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<220>

<223> Synthetic antimicrobial polypeptide

<400> 251

Gly	Phe	Gly	Cys	Gly	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Lys	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 252
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 <212> PRT
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<220>

<223> Synthetic antimicrobial polypeptide

<400> 252

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Arg	Lys	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Arg	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 253

<211> 40
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<220>
 <223> Synthetic antimicrobial polypeptide

<400> 253

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Lys	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Arg
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 254
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<400> 254

Gly	Phe	Gly	Cys	Gly	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Trp	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 255
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<223> Synthetic antimicrobial polypeptide

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Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Ala	Lys	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Arg	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 256

<211> 40

<212> PRT

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<220>

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<400> 256

Gly	Phe	Gly	Cys	Lys	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Leu	Gln	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 257

<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 257

Gly Phe Gly Cys Gly Gly Pro Trp Asp Glu Asp Asp Trp Gln Cys His
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Ser His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 258
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 <212> PRT
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<220>
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<400> 258

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Lys His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 259
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 <212> PRT
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<220>
 <223> Synthetic antimicrobial polypeptide

<400> 259

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Asn Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 260
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<220>
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<400> 260

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Asn His Cys Lys Ser Ile Lys Gly Tyr Cys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr Arg Cys Gly
 35 40

<210> 261
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 <212> PRT
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<400> 261

Gly Phe Gly Cys His Gly Pro Trp Asp Glu Asp Asp Glu Gln Cys His
 1 5 10 15

Glu His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 262
 <211> 40
 <212> PRT
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<220>
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<400> 262

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Phe His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 263
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<400> 263

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Ser His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 264
<211> 40
<212> PRT
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<400> 264

Gly	Phe	Gly	Cys	Gly	Gly	Pro	Trp	Ala	Glu	Asp	Asp	Met	Ser	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Thr	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Thr	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 265
<211> 40
<212> PRT
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<220>
<223> Synthetic antimicrobial polypeptide

<400> 265

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
1				5					10					15	

Ala	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 266
<211> 40
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<220>

<223> Synthetic antimicrobial polypeptide

<400> 266

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Ser	Lys	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Arg	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 267

<211> 40

<212> PRT

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<220>

<223> Synthetic antimicrobial polypeptide

<400> 267

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Gly	Asp	Met	Gln	Cys	His
1				5					10					15	

Ile	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

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<211> 40

<212> PRT

<213> Artificial

<220>

<223> Synthetic antimicrobial polypeptide

<400> 268

Gly	Phe	Gly	Cys	Ser	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Val	Gln	Cys	His
1				5					10					15	

Thr	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 269

<211> 40

<212> PRT

<213> Artificial

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<223> Synthetic antimicrobial polypeptide

<400> 269

Gly	Phe	Gly	Cys	Asp	Gly	Pro	Trp	Ser	Glu	Asp	Asp	Met	Arg	Cys	His
1				5					10					15	

Asn	His	Cys	Lys	Ser	Ile	Lys	Gly	Tyr	Lys	Gly	Gly	Tyr	Cys	Ala	Lys
			20					25					30		

Gly	Gly	Phe	Val	Cys	Lys	Cys	Tyr
		35					40

<210> 270

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<400> 270

Gly	Phe	Gly	Cys	Asn	Gly	Pro	Trp	Asp	Glu	Asp	Asp	Met	Gln	Cys	His
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Asn His Cys Lys Ala Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
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Gly Gly Phe Val Cys Lys Cys Tyr
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<210> 271
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Arg His Cys Lys Ser Ile Lys Gly Arg Lys Gly Gly Tyr Cys Ala Lys
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Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 272
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<400> 272

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Ala His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
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Gly Gly Phe Val Cys Lys Cys Tyr
 35 40

<210> 273
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<400> 273

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
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Thr His Cys Lys Ser Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
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Gly Gly Phe Val Cys Lys Cys Tyr
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<210> 274
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<400> 274

Gly Phe Gly Cys Asn Gly Pro Trp Asp Glu Asp Asp Met Gln Cys His
 1 5 10 15

Asn His Cys Lys Val Ile Lys Gly Tyr Lys Gly Gly Tyr Cys Ala Lys
 20 25 30

Gly Gly Phe Val Cys Lys Cys Tyr
 35 40