

(12) STANDARD PATENT
(19) AUSTRALIAN PATENT OFFICE

(11) Application No. **AU 2015298629 B2**

(54) Title
Water buffalo derived peptide antibiotic therapies

(51) International Patent Classification(s)
A01N 37/18 (2006.01) **A61K 38/16** (2006.01)
A61K 38/04 (2006.01)

(21) Application No: **2015298629** (22) Date of Filing: **2015.07.28**

(87) WIPO No: **WO16/022335**

(30) Priority Data

(31) Number	(32) Date	(33) Country
14/483,083	2014.09.10	US
14/678,558	2015.04.03	US
62/032,737	2014.08.04	US
14/692,518	2015.04.21	US
14/750,709	2015.06.25	US

(43) Publication Date: **2016.02.11**

(44) Accepted Journal Date: **2019.03.07**

(71) Applicant(s)
Centaur, Inc.

(72) Inventor(s)
Garcia, Luis Tonatiuh Melgarejo;Linde, Annika;Lushington, Gerald Henry

(74) Agent / Attorney
FPA Patent Attorneys Pty Ltd, Level 43 101 Collins Street, Melbourne, VIC, 3000, AU

(56) Related Art
"Cathelicidin [Bubalus bubalis", GenBank, (2007-01-12), Database accession no. CAH23217.1
ZANETTI, "The role of cathelicidins in the innate host defenses of mammals", Curr Issues Mol Biol, (2005), vol. 7, no. 2, pages 179 - 96, XP 055392847



(51) International Patent Classification:

A01N 37/18 (2006.01) A61K 38/04 (2006.01)
A61K 38/16 (2006.01)

(21) International Application Number:

PCT/US2015/042435

(22) International Filing Date:

28 July 2015 (28.07.2015)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/032,737	4 August 2014 (04.08.2014)	US
14/483,083	10 September 2014 (10.09.2014)	US
14/678,558	3 April 2015 (03.04.2015)	US
14/692,518	21 April 2015 (21.04.2015)	US
14/750,709	25 June 2015 (25.06.2015)	US

(71) Applicant: **CENTAUR, INC.** [US/US]; 1351 Old 57 Hwy., Olathe, Kansas 66061 (US).

(72) Inventors: **GARCIA, Luis Tonatiuh Melgarejo**; 1912 Grandview Dr., Manhattan, Kansas 66502 (US). **LINDE, Annika**; 1912 Grandview Dr., Manhattan, Kansas 66502 (US). **LUSHINGTON, Gerald Henry**; 2933 Lankford Dr., Lawrence, Kansas 66046 (US).

(74) Agent: **PORTERFIELD, Andrea**; Polsinelli PC, 900 W. 48th Place, Suite 900, Kansas City, Missouri 64112 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
- with sequence listing part of description (Rule 5.2(a))

(54) Title: WATER BUFFALO DERIVED PEPTIDE ANTIBIOTIC THERAPIES

(57) Abstract: The present disclosure relates to antimicrobial agents and methods of using such agents. The disclosure includes anti-microbial agents having broad spectrum antimicrobial activity, nucleic acids and amino acid sequences encoding such antimicrobial agents, as well as methods of using the antimicrobial agents. The antimicrobial agents of the disclosure may be used to reduce survival of a microbe, as an antimicrobial therapeutic, in microbial treatment protocols, and in research, as well as other uses related to reducing microbe survival. In addition, the disclosure also includes compositions, as well as articles of manufacture, that comprise a broad spectrum antimicrobial agent.



WATER BUFFALO DERIVED PEPTIDE ANTIBIOTIC THERAPIES

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application relates to and claims the priority of U.S. Provisional Patent Application Serial No. 62/032,737, which was filed August 4, 2014, U.S. Patent No. 9,029,319, which was filed May 19, 2015, U.S. Nonprovisional Patent Application Serial No. 14/678,558, which was filed April 3, 2015, U.S. Nonprovisional Patent Application Serial No. 14/692,518, which was filed April 21, 2015, and U.S. Nonprovisional Patent Application Serial No. 14/750,719, which was filed June 25, 2015, each of which is hereby incorporated by reference in its entirety.

FIELD OF THE INVENTION

[0002] The present disclosure relates to antimicrobial agents and methods of using. More particularly, the disclosure relates to antimicrobial peptides and therapeutic uses thereof.

SEQUENCE LISTING

[0003] This application contains a sequence listing in paper format and in computer readable format, the teachings and content of which are hereby incorporated by reference.

BACKGROUND OF THE INVENTION

[0004] Antimicrobial resistance is reducing the availability of effective antimicrobial treatments worldwide. Resistant organisms, including bacteria, fungi, viruses, and parasites, are able to withstand attack by antimicrobial medicines, so that standard treatments become ineffective. Infections by such resistant organisms persist increasing the risk of spreading to others. The evolution of resistant strains of organisms is a natural phenomenon that occurs when microorganisms are exposed to antimicrobial drugs, and resistant traits can be exchanged between certain types of bacteria. The misuse of antimicrobial medicines also accelerates the emergence of resistant organisms.

[0005] With the decrease in effective antimicrobial treatments due to the emergence of resistant organisms, new antimicrobial therapeutics are needed. The number of new antimicrobial therapies developed and approved has steadily decreased in the past three decades, leaving even fewer options to treat resistant organisms.

[0006] Accordingly, a need exists for antimicrobial treatments and therapeutics having broad spectrum antimicrobial activity. Moreover, a need exists for effectively inhibiting the growth and spread of harmful microorganisms.

SUMMARY OF THE INVENTION

[0007] The present disclosure provides antimicrobial agents having broad spectrum antimicrobial activity and methods of inhibiting microorganism growth. In particular, the present disclosure is directed to peptides having antimicrobial activity and methods of using the peptides to inhibit microorganisms.

[0008] The disclosure provides synthetic antimicrobial agents having at least two 14 amino acid peptide sequences operably linked. The amino acid peptide sequence is generally the sequence of formula 1 (**Gly-X₁-X₂-X₃-X₁-X₁-X₁-Arg-X₄-X₁-X₅-X₆-X₆-Gly**) where X₁ is selected from the group of Leu or Ile; X₂ is selected from the group of Ala, Val, Leu, Ile, or Pro; X₃ is selected from the group of Arg or Trp; X₄ is selected from the group of Trp, Ile, or Leu; X₅ is selected from the group of Phe or Trp; and, X₆ is selected from the group of Phe, Trp, or Arg. In some aspects, the amino acid peptide sequence has at least 70% sequence identity to a sequence provided in SEQ ID NO: 3-33. In some aspects, the amino acid peptide sequence has at least 75%, 76%, 77%, 78%, 79%, 80%, 81%, 82%, 83%, 84%, 85%, 86%, 87%, 88%, 89%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or 100% sequence identity to at least one sequence provided in SEQ ID NO: 3-33. Preferably, the amino acid peptide sequence has at least 85% sequence identity to SEQ ID NO: 8.

[0009] In some aspects, the antimicrobial agent disclosed includes a first synthetic amino acid sequence and a second synthetic amino acid sequence operably linked. Such second synthetic amino acid sequence, like the first synthetic amino acid sequence, is at least a 14 amino acid peptide sequence. Generally, the second

synthetic amino acid sequence also has a sequence of formula 1 described above. In some aspects, the second synthetic amino acid sequence is identical to the first synthetic amino acid sequence, creating a homodimer. In other aspects, the second synthetic amino acid sequence is not identical to the first synthetic amino acid sequence, creating a heterodimer. In some aspects, the antimicrobial agent includes a sequence having at least 70% sequence identity to a sequence provided in SEQ ID NO: 40-4101. In some aspects, the antimicrobial agent includes a sequence having at least 75%, 76%, 77%, 78%, 79%, 80%, 81%, 82%, 83%, 84%, 85%, 86%, 87%, 88%, 89%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or 100% sequence identity to at least one sequence provided in SEQ ID NO: 40-4101. Preferably, the antimicrobial agent includes a sequence having at least 85% sequence identity to SEQ ID NO: 40.

[00010] In some aspects, the antimicrobial agent of the disclosure includes a linker sequence that operably connects the first synthetic amino acid sequence to the second synthetic amino acid sequence. Suitable linker sequences further enhance kinetics of antimicrobial activity of the antimicrobial agent. In some aspects, the linker sequence is tailored to enhance solubility in polar environments. In some aspects, the linker sequence is tailored to enhance solubility in lipophilic environments. In some aspects, the linker sequence is tailored to enhance chemical stability in a variety of chemical environments. Suitable linker sequences may be 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, or more amino acids in length. Preferably, the linker sequence is about 5, 6, 7, 8, 9, or 10 amino acids in length. More preferably, the linker sequence is about 5 to 8 amino acids in length. Suitable linker sequence may include any amino acid in each position, so long as the antimicrobial activity of the antimicrobial agent is not disrupted. Such linker sequences include those that permit antiparallel alignment of two distinct helices formed by the first synthetic and second synthetic amino acid sequences. Such linker sequences also include those that enhance antimicrobial activity of the first synthetic and second synthetic amino acid sequences. By way of example, without limitation, the first amino acid position of the linker sequence may be productively occupied with an anionic residue such as aspartate or glutamate, which may enhance antimicrobial activity by stabilizing an active conformation. Also, by way of example, without limitation, the linker sequence may

include 5 to 8 asparagine residues to enhance solubility in polar environments while not disturbing the active conformation incumbent in the remainder of the molecule. Alternatively, the linker sequence may include 5 to 8 glycine residues to enhance solubility in polar environments while not disturbing the active conformation incumbent in the remainder of the molecule. In other aspects, the linker sequence may be of a heterogeneous form, composed of about 5 to about 8 residues selected from the following amino acids, including, asparagine, glutamine, glycine, histidine, serine, threonine, and combinations thereof. Suitable heterogeneous formulations may be selected to enhance solubility in polar environments while not disturbing the active conformation incumbent in the remainder of the molecule.

[00011] In some aspects, the linker sequence is generally the sequence of formula 2: **(A1-P2-P3-...Pn)**, with "A" referring to an anionic residue, "P" referring to a polar residue, and "n" referring to an integer between about 3 and about 25. Suitable anionic residues include those known as such in the art, including, without limitation, aspartate and glutamate. Suitable polar residues include those known as such in the art, including, without limitation, asparagine, glutamine, glycine, histidine, serine, and threonine. In some aspects, n is an integer such as that including, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25. Preferably, n is an integer such as 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, or 15. In some aspects, the linker sequence has at least 70% sequence identity to a sequence of formula 2. In some aspects, the amino acid sequence has at least 75%, 76%, 77%, 78%, 79%, 80%, 81%, 82%, 83%, 84%, 85%, 86%, 87%, 88%, 89%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or 100% sequence identity to a sequence of formula 2. Preferably, the linker sequence has at least 85% sequence identity to a sequence of formula 2.

[0010] In some aspects, the linker sequence has at least 70% sequence identity to a sequence provided in SEQ ID NO: 34-39. In some aspects, the amino acid sequence has at least 75%, 76%, 77%, 78%, 79%, 80%, 81%, 82%, 83%, 84%, 85%, 86%, 87%, 88%, 89%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or 100% sequence identity to at least one sequence provided in SEQ ID NO: 34-39. Preferably, the linker sequence has at least 85% sequence identity to at least one sequence provided in SEQ ID NO: 34-39.

[0011] The antimicrobial agents of the disclosure also include nucleic acid molecules encoding the amino acid sequences described herein, as well as expression vectors, encoding an antimicrobial agent, variant, or fragment thereof. Also, the disclosure provides isolated cells containing such nucleic acids, expression vectors, or peptides described herein. The disclosure provides compositions containing nucleic acid molecules or peptides of the disclosure, as well as variants or fragments thereof. Further, the disclosure provides articles of manufacture containing nucleic acid molecules or peptides of the disclosure, as well as variants or fragments thereof.

[0012] The disclosure provides antimicrobial agents having broad antimicrobial activity against microorganisms including bacteria, yeast, protozoa, fungi, mold, viruses, and combinations thereof. In some aspects, the antimicrobial agents have antimicrobial activity against Gram-positive and Gram-negative bacteria. The antimicrobial agents of the disclosure may be used to inhibit or prevent growth of a microorganism. Such microorganisms may include, without limitation, strains of *Pseudomonas*, *Escherichia*, *Staphylococcus*, *Streptococcus*, *Enterococcus*, *Mycobacteria*, *Haemophilus*, and combinations thereof.

[0013] In some aspects, the antimicrobial compositions may include a pharmaceutical carrier. In some aspects, the antimicrobial compositions may include a food additive.

[0014] The disclosure provides methods of reducing or inhibiting growth or survival of a microbe. Such methods include contacting the microbe with the antimicrobial agent.

[0015] In some aspects, the disclosure provides a method of reducing or inhibiting growth or survival of a microbe in a subject. The method includes contacting, or administering to, the subject a composition containing an antimicrobial agent. A therapeutically effective amount of the composition is delivered to the subject.

[0016] In some aspects, the disclosure provides a method of treating a microbial infection in a subject. The method includes contacting, or administering to, the subject a composition containing an antimicrobial agent disclosed herein. A therapeutically effective amount of the composition is delivered to the subject.

[0017] In some aspects, the disclosure provides a method of treating mastitis in a subject. The method includes identifying a subject having mastitis and contacting, or administering to, the subject a composition containing an antimicrobial agent. In some aspects, a therapeutically effective amount of the composition is administered directly to the mammary tissue of the subject.

[0018] The present disclosure further provides an article of manufacture, or kit, that includes a vessel and an antimicrobial agent. The article of manufacture may include packaging material that contains the antimicrobial agent and a label that indicates the antimicrobial agent can be used for treating mastitis. The article of manufacture may include packaging material that contains the antimicrobial agent and a label that indicates the antimicrobial agent can be used for treating a microbial infection in a subject. The article of manufacture may include packaging material that contains the antimicrobial agent and a label that indicates the antimicrobial agent can be used for inhibiting the growth or survival of microbes. The article of manufacture may include packaging material that contains the antimicrobial agent and a label that indicates the antimicrobial agent can be used for inhibiting the growth or survival of microbes in a subject.

BRIEF DESCRIPTION OF THE DRAWINGS

[0019] The following drawings form part of the present specification and are included to further demonstrate certain aspects of the disclosure. The disclosure may be better understood by reference to one or more of these drawings in combination with the detailed description of specific embodiments presented herein.

[0020] The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawings will be provided by the Office upon request and payment of the necessary fee.

[0021] **FIG. 1** graphically illustrates the amino acid composition of some antimicrobial agent aspects. Residue colors reflect a preference for lipophilic (yellow) or basic (blue).

[0022] **FIG. 2** shows the antimicrobially active dimer structure based on molecular dynamics simulations. Green and yellow objects are two compositionally

identical peptides oriented in antiparallel alignment. Numbers identify the specific amino acid positions including the amino terminus (position 0) and the carboxy terminus (position 15). The solid surface represents the lipid membrane colored according to neutral (blue) or anionic (red) lipid.

[0023] **FIG. 3** graphically illustrates the roles for specific amino acid positions within the noncovalent dimer construct for some antimicrobial agent aspects. The illustration shows intradimer stabilizations (black arrows), dimer-membrane lipid interactions (yellow arrows) and dimer-membrane electrostatic coupling (red-blue arrows).

[0024] **FIG. 4** graphically illustrates a minimally-spanned covalently-linked dimer based on the non-covalent formulation shown in FIG. 1. The dimer (silver cartoon and CPK-colored sticks) is shown on a model membrane surface, colored by neutral (blue) vs. anionic (red) lipids.

[0025] **FIG. 5** graphically illustrates the antibiotic activity of the antimicrobial peptides of the disclosure. A statistically significant difference ($P < 0.001$) was found between the groups (box-plot below), with the post-hoc test showing a difference between the WB-14F versus the three control groups (PBS, ATBX, and Non-Tx) at a 5% level of significance.

[0026] **FIG. 6** depicts an antimicrobial agent (SEQ ID NO: 17) rendered as sticks (left; as shown above the helical axis) and solvent-accessible surface (center and right, as shown from front and side views, with the helical axis pointing up in the plane of the page). Coloration is as follows: hydrophobic residues are yellow; polar residues are colored by element (H = cyan, C = white, N = blue, O = red).

[0027] **FIG. 7** shows a membrane disruption model. Toroidal pore formation (FIG. 7A) in which the peptide lipophilic surface coordinates the lipid medium in a systematic way, so as to collaboratively form a transmembrane pore, or in-plane diffusion (FIG. 7B). Individual peptides or dimers locally disrupt the membrane order via a combination of lipophilic peptide-membrane interactions and cationic attraction of the negatively charged phospholipid head groups (red surfaces) by positively charged peptide amino acids (blue surfaces), with the local pockets of disorder diffusively aggregating to form areas of significant membrane weakness.

DETAILED DESCRIPTION

[0028] In accordance with the present disclosure, compositions and methods of using antimicrobial agents to inhibit the growth or survival of microorganisms have been discovered. In particular, antimicrobial agents having peptides with antimicrobial activity are used to inhibit the growth or survival of microorganisms. Therefore, the compositions and methods described herein are useful for antimicrobial treatments and therapeutics. Furthermore, the compositions and methods described herein may be used where antimicrobial resistance has reduced the availability of antimicrobial treatments or therapeutics.

I. Compositions

[0029] The compositions of the disclosure include antimicrobial agents having antimicrobial activity against at least one microorganism. In some aspects, the compositions of the disclosure include antimicrobial agents having antimicrobial activity against more than one microorganism.

a. Nucleic Acids Encoding Antimicrobial Agents

[0030] The disclosure provides antimicrobial agents that include synthetic peptides having antimicrobial activity. In some aspects the antimicrobial agents include peptides, a fragment thereof, or a variant thereof, as well as nucleic acid molecules that encode the synthetic peptide of the disclosure. Such nucleic acid molecules may include an expression vector.

[0031] Nucleic acids encoding antimicrobial peptides derived from water buffalo host defense proteins are disclosed. The nucleic acid sequences encoding antimicrobial peptides of the disclosure were derived from SEQ ID NO: 1 and the encoded amino acid sequence of SEQ ID NO: 2, having the antimicrobial peptide sequence of SEQ ID NO: 3. Suitable nucleotide sequences of the present disclosure include those that encode a peptide having antibacterial activity such as those peptides provided by SEQ ID NOs: 3-33, 40-4101, and those described herein.

[0032] Mutant nucleotides of the antimicrobial peptides may be used, so long as mutants include nucleic acid sequences that encode functional antimicrobial peptides as described herein. The subject nucleic acids may be mutated to alter properties of the encoded peptide such as expression properties, folding properties, solubility properties, and antibacterial activity. A skilled artisan will recognize that proteins encoded by nucleic acids encoding homologues or mutants may have the same antibacterial properties as the peptides of SEQ ID NOs: 3-33 and 40-4101, or may have altered antibacterial properties. The DNA sequence or protein product of such a mutation will usually be substantially similar to the sequences provided herein and will differ by one or more nucleotides or amino acids. The sequence changes may be substitutions, insertions, deletions, or a combination thereof. Techniques for mutagenesis of cloned genes are known in the art. Methods for site specific mutagenesis may be found in Gustin et al., *Biotechniques* 14:22, 1993; Barany, *Gene* 37:111-23, 1985; Colicelli et al., *Mol. Gen. Genet.* 199:537-9, 1985; and Sambrook et al., *Molecular Cloning: A Laboratory Manual*, CSH Press 1989, pp. 15.3-15.108 and all incorporated herein by reference. Such mutated nucleic acid derivatives may be used to study structure-function relationships of a particular antimicrobial peptide, or to alter properties of the peptide that affect its function or regulation. In summary, the disclosure relates to antimicrobial peptide coding sequences such as those that encode amino acid sequences of SEQ ID NOs: 3-33, 40-4101, and variants or mutants thereof. Also, the disclosure encompasses the intermediary RNAs encoded by the described nucleic acid sequences and that translates into an antimicrobial peptide of the disclosure.

b. Antimicrobial Peptide Compositions

[0033] A synthetic peptide disclosed herein may be obtained using methods known in the art, including isolation from a cell expressing the peptide, chemical synthesis, or the peptide may be expressed from a recombinant nucleic acid molecule. Methods of synthesizing a subject peptide are described in *Current Protocols in Protein Science*, Units 5, pub. John Wiley & Sons, Inc., 2002 and *Current Protocols in Protein*

Science, Units 6, pub. John Wiley & Sons, Inc., 2002 and both are incorporated herein by reference.

[0034] The disclosure contemplates antimicrobial peptides and mutants thereof, which include those peptides encoded by the subject nucleic acids. The synthetic antibacterial peptides, or agents, disclosed herein are exemplified by the sequences of SEQ ID NOs: 3-33 and 40-4101. Further, the disclosure includes both homodimers and heterodimers of the antibacterial peptides described herein.

[0035] Homologs or peptides that vary in sequence from the amino acid sequences SEQ ID NOs: 3-33 and 40-4101 are also included in the disclosure. By homolog is meant a protein having at least about 10%, usually at least about 25%, 30%, 40%, 45%, 50%, 55%, 60%, 65%, 70%, 75%, 80%, 85%, 90%, 95%, 99% or higher amino acid sequence identity to the proteins encoded by SEQ ID NOs: 3-33 or 40-4101, as determined using MegAlign, DNASTar (1998) clustal algorithm as described in Higgins, D.G. and Sharp, P.M., Fast and Sensitive Multiple Sequence Alignments on a Microcomputer, CABIOS, 5: 151-153, 1989, both incorporated herein by reference.

[0036] Antimicrobial peptides disclosed herein may be mutated, or altered, to enhance, or change, biological properties of the protein. Such biological properties include, but are not limited to, *in vivo* or *in vitro* stability (e.g., half-life), solubility, amphiphilicity and various aspects of antimicrobial activity. Such antimicrobial activity aspects include, without limitation, tissue specificity, microbial target selectivity, broad spectrum antimicrobial potency and invariance as a function of microbial resistance mechanisms. Suitable mutations include single amino acid changes, deletions of one or more amino acids, N-terminal truncations, C-terminal truncations, insertions, etc. Mutants can be generated using standard techniques of molecular biology, including random mutagenesis and targeted mutagenesis as described in Current Protocols in Molecular Biology, Unit 8, pub, John Wiley & Sons, Inc., 2000 and incorporated herein by reference.

[0037] The manifold of currently considered peptide formulations is of substantial value because the manifold as a whole has a mechanism of action that is not susceptible to a key microbial antioxidative resistance mechanism conferred by membrane expression of staphyloxanthin. Furthermore, strategic sequence variation

within the manifold may be applied to counteract microbial defenses effected by adaptive membrane charge distribution corresponding to covalent modification of anionic lipids, or greater membrane staphyloxanthin expression.

[0038] The antimicrobial peptides disclosed herein are characterized by having antimicrobial activity. Specifically, the peptides disclosed are capable of disrupting the cell membrane of microorganisms, leading to the microorganism's destruction.

[0039] The antimicrobial peptides generally have a first synthetic amino acid sequence of formula 1 (**Gly-X₁-X₂-X₃-X₁-X₁-X₁-Arg-X₄-X₁-X₅-X₆-Gly**) where X₁ is selected from the group of Leu or Ile; X₂ is selected from the group of Ala, Val, Leu, Ile, or Pro; X₃ is selected from the group of Arg or Trp; X₄ is selected from the group of Trp, Ile, or Leu; X₅ is selected from the group of Phe or Trp; and, X₆ is selected from the group of Phe, Trp, or Arg.

[0040] The antimicrobial peptides also may have a second antimicrobial synthetic amino acid sequence of formula 1 (**Gly-X₁-X₂-X₃-X₁-X₁-X₁-Arg-X₄-X₁-X₅-X₆-Gly**) where X₁ is selected from the group of Leu or Ile; X₂ is selected from the group of Ala, Val, Leu, Ile, or Pro; X₃ is selected from the group of Arg or Trp; X₄ is selected from the group of Trp, Ile, or Leu; X₅ is selected from the group of Phe or Trp; and, X₆ is selected from the group of Phe, Trp, or Arg. The antimicrobial agent may include a homodimer of antimicrobial peptides, where a first antimicrobial synthetic sequence has the same sequence as a second antimicrobial synthetic sequence. The antimicrobial agent may include a heterodimer of antimicrobial peptides, where a first antimicrobial synthetic sequence has a different sequence as a second antimicrobial synthetic sequence. Such difference may be by one or more amino acid sequences.

[0041] The antimicrobial peptides typically range in length from about 14 amino acid residues to about 30 amino acid residues. In some aspects, the antimicrobial peptides are about 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45 or more amino acid residues in length. Preferably, the antimicrobial peptides are 14 amino acid residues in length. In some aspects, antimicrobial agents including homodimers of the antimicrobial peptides are about 28 amino acid residues in length. In some aspects,

antimicrobial agents including homodimers of the antimicrobial peptides are about 35 amino acid residues in length. In some aspects, antimicrobial agents including heterodimers of the antimicrobial peptides are about 28 amino acid residues in length. In some aspects, antimicrobial agents including heterodimers of the antimicrobial peptides are about 35 amino acid residues in length. A skilled artisan will recognize that the length of a homodimer or heterodimer of the antimicrobial peptides depends upon the length of the antimicrobial peptide used in the respective homodimer or heterodimer.

[0042] The antimicrobial agent may include a linker sequence to connect a first antimicrobial synthetic sequence to a second antimicrobial synthetic sequence. In some aspects, the linker sequence connected to a first and second antimicrobial peptide produces a covalently linked dimer formulation. Suitable linker sequences may be used to improve antimicrobial kinetics. In one aspect, the linker sequence enhances kinetics by encouraging the dimerized structure to remain in a conformation conducive to antimicrobial activity. In one aspect, the linker sequence may be used to enhance delivery of the dimer. Such linker sequences may include specific amino acid formulations that favor solubility in polar or lipophilic media. In another aspect, the linker sequence may be used to enhance chemical stability within different environments.

[0043] Suitable linker sequences may be tailored to provide specific enhancements. A linker sequence may be a length of any size that does not disrupt the antimicrobial activity of the antimicrobial peptide. In some aspects, the linker sequence may be a length of about 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 25, 30, 35, 40, 45, 50 or more amino acid residues. Preferably, the linker sequence is a length of about 2, 3, 4, 5, 6, 7, 8, 9, or 10 amino acid residues. In some aspects, the linker sequence is a length of about 7 amino acid residues. The amino acid residues of the linker sequence may be tailored to provide specific enhancements. In some aspects, the linker sequence includes mostly polar amino acids. In some aspects, the linker sequence includes at least one sequence of SEQ ID NO: 34-39. In some aspects, the linker sequence includes the sequence of SEQ ID NO: 34.

c. Pharmaceutical Compositions

[0044] The present disclosure provides a pharmaceutical composition including at least one antimicrobial agent described herein. To prepare such a pharmaceutical composition, an antimicrobial agent, an antimicrobial peptide, homodimer, heterodimer, or combinations thereof is synthesized or otherwise obtained, purified as necessary or desired and then lyophilized and stabilized. The antimicrobial agent may then be adjusted to the appropriate concentration and combined with other agents or pharmaceutically acceptable carriers. Suitable pharmaceutically acceptable carriers include, without limitation, a carrier, diluent, excipient, salt, or combinations thereof, that are compatible with the other ingredients of the formulation and not deleterious to the recipient thereof.

[0045] Pharmaceutical formulations containing an antimicrobial agent disclosed herein may be prepared by procedures known in the art using well-known and readily available ingredients. For example, the antimicrobial agent may be formulated with common excipients, diluents, or carriers, and formed into tablets, capsules, solutions, suspensions, powders, aerosols and the like. Examples of excipients, diluents, and carriers that are suitable for such formulations include buffers, as well as fillers and extenders such as starch, cellulose, sugars, mannitol, and silicic derivatives. Binding agents may also be included such as carboxymethyl cellulose, hydroxymethylcellulose, hydroxypropyl methylcellulose and other cellulose derivatives, alginates, gelatin, and polyvinyl-pyrrolidone.

II. Methods

[0046] The compositions of the present disclosure including at least one antimicrobial agent are useful in methods of reducing the growth or survival of microorganisms. A skilled artisan will appreciate the numerous methods of using the antimicrobial agents disclosed herein. Accordingly, the methods included herein are examples and are not limiting of the scope by which the antimicrobial agents may be used. The methods of the disclosure include reducing the growth or survival of microorganisms, treating a subject having a microorganism infection, and treating a subject having mastitis, as well as other methods using the antimicrobial agents disclosed herein.

[0047] Microorganisms against which an antimicrobial agent disclosed herein is active include Gram-negative bacteria, Gram-positive bacteria, yeast, fungi, mold, viruses, unicellular parasites, and other microorganisms known in the art. Non-limiting examples include *Staphylococcus aureus*, *Listeria monocytogenes*, *Escherichia coli*, *Klebsiella pneumoniae*, *Salmonella typhimurium*, *Pseudomonas aeruginosa*, *Proteus mirabilis*, *Salmonella enteritidis*, *Neisseria gonorrhoeae*, *Ureaplasma canigenitalium*, *Ureaplasma urealyticum*, *Candida albicans*, *Trichomonas vaginalis*, *Treponema pallidum*, *Chlamydia trachomatis*, *Staphylococcus hyicus*, Coagulase negative staphylococci, *Streptococcus agalactiae*, *Streptococcus hyicus*, *Streptococcus epidermidis*, *Streptococcus xylosus*, *Streptococcus intermedius*, *Streptococcus dysgalactiae*, *Streptococcus uberis*, *Mycoplasma* spp. (*Mycoplasma bovis*, *Mycoplasma bovigenitalium*, *Mycoplasma canadense*, *Mycoplasma californicum*, *Mycoplasma alkalescens*), *Escherichia coli*, *Klebsiella* spp. (*Klebsiella pneumoniae*, *Klebsiella oxytoca*), *Enterobacter* spp. (*E. aerogenes*, *E. amnigenus*, *E. agglomerans*, *E. arachidis*, *E. asburiae*, *E. cancerogenus*, *E. cloacae*, *E. cowanii*, *E. dissolvens*, *E. gergoviae*, *E. helveticus*, *E. hormaechei*, *E. intermedius*, *E. kobei*, *E. ludwigii*, *E. mori*, *E. nimipressuralis*, *E. oryzae*, *E. pulveris*, *E. pyrinus*, *E. radicincitans*, *E. taylorae*, *E. turicensis*, *E. sakazakii*, *Enterobacter soli*), *Citrobacter* spp. (*C. amalonaticus*, *C. braakii*, *C. diversus*, *C. farmeri*, *C. freundii*, *C. gillenbergii*, *C. koseri*, *C. murliniae*, *C. rodentium*, *C. sedlakii*, *C. werkmanii*, *C. youngae*), *Proteus* spp. (*P. hauseri*, *P. mirabilis*, *P. myxofaciens*, *P. penneri*, *P. vulgaris*), *Enterococci*, *Serratia* spp., *Pseudomonas* spp. (*P. aeruginosa*, *P. alcaligenes*, *P. anguilliseptica*, *P. argentinensis*, *P. borbori*, *P. citronellolis*, *P. flavescens*, *P. mendocina*, *P. nitroreducens*, *P. oleovorans*, *P. pseudoalcaligenes*, *P. resinovorans*, *P. straminea*), *P. chlororaphis* group (*P. agarici*, *P. asplenii*, *P. aurantiaca*, *P. aureofaciens*, *P. chlororaphis*, *P. corrugata*, *P. fragi*, *P. lundensis*, *P. taetrolens*), *P. fluorescens* group (*P. antarctica*, *P. azotoformans*, *P. brassicacearum*, *P. brenneri*, *P. cedrina*, *P. corrugata*, *P. fluorescens*, *P. gessardii*, *P. libanensis*, *P. mandelii*, *P. marginalis*, *P. mediterranea*, *P. meridiana*, *P. migulae*, *P. mucidolens*, *P. orientalis*, *P. panacis*, *P. protegens*, *P. proteolytica*, *P. rhodesiae*, *P. synxantha*, *P. thivervalensis*, *P. tolaasii*, *P. veronii*), *P. pertucinogena* group (*P. denitrificans*, *P. pertucinogena*), *P. putida* group (*P. cremoricolorata*, *P. fulva*, *P.*

monteilii, *P. mosselii*, *P. oryzihabitans*, *P. parafulva*, *P. plecoglossicida*, *P. putida*), *P. stutzeri* group (*P. balearica*, *P. luteola*, *P. stutzeri*), *P. syringae* group (*P. amygdali*, *P. avellanae*, *P. caricapapayae*, *P. cichorii*, *P. coronafaciens*, *P. ficuserectae*, *P. meliae*, *P. savastanoi*, *P. syringae*, *P. viridiflava*), *incertae sedis* (*P. abietaniphila*, *P. acidophila*, *P. agarici*, *P. alcaliphila*, *P. alkanolytica*, *P. amyloclavata*, *P. asplenii*, *P. azotifigens*, *P. cannabina*, *P. coenobios*, *P. congelans*, *P. costantinii*, *P. cruciviae*, *P. delhiensis*, *P. excubis*, *P. extremorientalis*, *P. frederiksbergensis*, *P. fuscovaginae*, *P. gelidicola*, *P. grimontii*, *P. indica*, *P. jessenii*, *P. jinjuensis*, *P. kilonensis*, *P. knackmussii*, *P. koreensis*, *P. lini*, *P. lutea*, *P. moraviensis*, *P. otitidis*, *P. pachastrellae*, *P. palleroniana*, *P. papaveris*, *P. peli*, *P. perolens*, *P. poae*, *P. pohangensis*, *P. protegens*, *P. psychrophila*, *P. psychrotolerans*, *P. rathonis*, *P. reptilivora*, *P. resiniphila*, *P. rhizosphaerae*, *P. rubescens*, *P. salomonii*, *P. segitis*, *P. septica*, *P. simiae*, *P. suis*, *P. thermotolerans*, *P. tremiae*, *P. trivialis*, *P. turbinellae*, *P. tuticorinensis*, *P. umsongensis*, *P. vancouverensis*, *P. vranovensis*, *P. xanthomarina*), *Prototheca*, *Corynebacterium bovis*, *Arcanobacterium pyogenes*, *Bacillus* spp. (*B. alcalophilus*, *B. alvei*, *B. aminovorans*, *B. amyloliquefaciens*, *B. aneurinolyticus*, *B. anthracis*, *B. aquaemaris*, *B. atrophaeus*, *B. azotoformans*, *B. badius*, *B. boroniphilus*, *B. brevis*, *B. caldolyticus*, *B. centrosporus*, *B. cereus*, *B. circulans*, *B. coagulans*, *B. fastidiosus*, *B. firmus*, *B. flavothermus*, *B. fusiformis*, *B. galliciensis*, *B. globigii*, *B. globisporus*, *B. infernus*, *B. insolitus*, *B. larvae*, *B. laterosporus*, *B. lentimorbus*, *B. lentus*, *B. licheniformis*, *B. macerans*, *B. macquariensis*, *B. marinus*, *B. megaterium*, *B. mesentericus*, *B. mucilaginosus*, *B. mycoides*, *B. natto*, *B. pantothenicus*, *B. pasteurii*, *B. polymyxa*, *B. popilliae*, *B. pseudoanthracis*, *B. pumilus*, *B. schlegelii*, *B. sphaericus*, *B. sporothermodurans*, *B. stearothermophilus*, *B. subtilis*, *B. thuringiensis*, *B. vulgatus*, *B. weihenstephanensis*), *Pasteurella* spp. (*P. aerogenes*, *P. anatis*, *P. avium*, *P. bettyae*, *P. caballi*, *P. canis*, *P. dagmatis*, *P. gallicida*, *P. gallinarum*, *P. granulomatis*, *P. langaaensis*, *P. lymphangitidis*, *P. mairii*, *P. multocida*, *P. oralis*, *P. pneumotropica*, *P. skyensis*, *P. stomatis*, *P. testudinis*, *P. trehalosi*, *P. ureae*, *P. volantium*), *Serratia* spp. (*S. entomophila*, *S. ficaria*, *S. fonticola*, *S. grimesii*, *S. liquefaciens*, *S. marcescens*, *S. odorifera*, *S. plymuthica*, *S. proteamaculans*, *S. quinivorans*, *S. rubidaea*, *S.*

symbiotica), and other microorganisms known in the art. Such unicellular parasites include, without limitation, leishmania, treponema, giardia, and others known in the art.

[0048] In some aspects, microorganisms against which an antimicrobial agent disclosed herein is active may also include medically relevant bacteria. Such medically relevant bacteria may include, without limitation, *Staphylococcus aureus*, *S. epidermidis*, *S. haemolyticus*, *S. intermedius*, *S. lugdunensis*, *S. saprophiticus*, *S. schleiferi*, *S. warneri*; *Streptococcus agalactiae*, *S. anginosus*, *S. bovis*, *S. equisimilis*, *S. mitis*, *S. mutans*, *S. pneumonia*, *S. pyogenes*, *S. sanguis*, *S. salivarius*, *S. suis*; *Enterococcus faecalis*, *E. faecium*; *Neisseria gonorrhoeae*, *N. meningitides*; *Moraxella catarrhalis*, *M. lacunata*, *M. nonliquefaciens*, *M. urethralis*; *Kingella kingae*, *K. denitrificans*; *Eikenella corrodens*; *Bacillus alvei*, *B. anthracis*, *B. brevis*, *B. cereus*, *B. circulans*, *B. coagulans*, *B. licheniformis*, *B. macerans*, *B. pumilus*, *B. sphaericus*, *B. subtilis*, *B. thuringiensis*; *Clostridium botulinum*, *C. bifermentans*, *C. butyricum*, *C. carnis*, *C. clostridioforme*, *C. difficile*, *C. fallax*, *C. histolyticum*, *C. innocuum*, *C. perfringens*, *C. novyi*, *C. ramosum*, *C. septicum*, *C. sordellii*, *C. tertium*, *C. tetani*; *Listeria monocytogenes*; *Erysipelothrix rhusiopathiae*; *Propionibacterium acnes*, *Streptobacillus moniliformis*; *Calymmatobacterium granulomatis*; *Bacteroides distasonis*, *B. fragilis*, *B. thetaiotaomicron*, *B. ovatus*, *B. vulgatus*; *Fusobacterium mortiferum*, *F. nucleatum*, *F. necrophorum*; *Gemella morbillorum*; *Peptostreptococcus* (*P. anaerobius*, *P. asaccharolyticus*, *P. hydrogenalis*, *P. magnus*, *P. melaninogenica*, *P. micros*, *P. tetradius*, *P. prevotii*); *Porphyromonas* (*P. asaccharolytica*, *P. gingivalis*); *Prevotella* (*P. melaninogenica*, *P. oris*, *P. buccae*); *Veillonella parvula*; *Salmonella choleraesuis*, *S. enteritidis*, *S. gastroenteritis*, *S. paratyphi-A*, *S. schottmuelleri*, *S. typhi*, *S. typhimurium*; *Shigella boydii*, *S. dysenteriae*, *S. flexneri*, *S. sonnei*; *Arcobacter cryaerophila*, *A. butzleri*, *A. skirrowii*; *Campylobacter coli*, *C. fetus*, *C. hyointestinalis*, *C. jejuni*, *C. lari*, *C. sputorum*, *C. upsaliensis*; *Helicobacter pylori*, *H. cinaedi*, *H. fennelliae*; *Vibrio cholera*, *V. damsela*, *V. fetus*, *V. fluvialis*, *V. furnissia*, *V. hollisae*, *V. mimicus*, *V. parahaemolyticus*, *V. vulnificus*; *Citrobacter freundii*, *C. diversus* (*C. koseri*); *Escherichia coli*; *Enterobacter aerogenes*, *E. cloacae*; *Klebsiella pneumoniae*, *K. rhinoscleromatis*, *K. ozaenae*; *Proteus mirabilis*; *Serratia marcescens*; *Pseudomonas aeruginosa*, *P. cepacia*, *P. fluorescens*, *P. maltophilia*, *P. mallei*, *P. pseudomallei*, *P. putida*, *P.*

putrefaciens, *P. stutzeri*; *Brucella abortus*, *B. canis*, *B. melitensis*, *B. suis*; *Pasteurella haemolytica*, *P. multocida*; *Yersinia enterocolitica*, *Y. pestis*, *Y. pseudotuberculosis*; *Francisella tularensis*; *Haemophilus influenza*, *H. parainfluenzae*, *H. ducreyi*, *H. aegyptius*; *Bordetella avium*, *B. bronchiseptica*, *B. hinzii*, *B. parapertussis*, *B. pertussis*; *Corynebacterium diphtheria*, *C. kutscheri*, *C. pseudotuberculosis*, *C. pseudodiphtheriticum*, *C. renale*, *C. xerosis*, *C. ulcerans*; *Mycobacterium africanum*, *M. avium-intracellulare*, *M. bovis*, *M. fortuitum*, *M. kansasii*, *M. leprae*, *M. marinum*, *M. microtii*, *M. tuberculosis*, *M. scrofulaceum*, *M. ulcerans*; *Nocardia asteroides*, *N. brasiliensis*, *N. caviae*; *Actinomyces bernardiae*, *A. bovis*, *A. denticolens*, *A. gerencseriae*, *A. georgiae*, *A. hordeovulneris*, *A. howellii*, *A. hyovaginalis*, *A. israelii*, *A. meyeri*, *A. naeslundii*, *A. neuii*, *A. odontolyticus*, *A. pyogenes*, *A. radingae*, *A. slackii*, *A. suis*, *A. turicensis*, *A. viscosus*; *Propionibacterium propionicus*; *Streptomyces somaliensis*; *Leptospira interrogans*, *L. biflexa*, *Borrelia burgdorferi*; *B. hermsii*, *B. recurrentis*, *B. turicatae*; *Spirillum minus*; *Treponema pallidum*, *T. carateum*; *Mycoplasma fermentans*, *M. genitalium*, *M. hominis*, *M. penetrans*, *M. pirum*, *M. pneumonia*; *Ureaplasma urealyticum*; *Rickettsiae akari*, *R. australis*, *R. conorii*, *R. japonica*, *R. prowazekii*, *R. rickettsii*, *R. sibirica*, *R. typhi*; *Ehrlichia canis*, *E. chaffeensis*, *E. equi*, *E. ewingii*, *E. phagocytophila*, *E. platys*, *E. risticii*, *E. sennetsu*; *Orientia tsutsugamushi*; *Coxiella burnetii*; *Bartonella bacilliformis*; *B. henselae*, *B. Quintana*; *Chlamydia pneumonia*, *C. psittaci*, *C. trachomatis*; *Legionella ansia*, *L. dumollii*, *L. feeleyi*, *L. micdadei*, *L. pneumophila*, and other medically relevant bacteria known in the art or yet to be discovered.

[0049] In some aspects, microorganisms against which an antimicrobial agent disclosed herein is active may also include veterinary relevant bacteria. Such relevant bacteria may include, without limitation, *Acholeplasma laidlawii*; *Acinetobacter lwoffii*; *Actinobacillus equuli*, *A. lignieresii*, *A. pleuropneumoniae*, *A. rossi*, *A. suis*; *Actinobaculum suis*; *Actinomyces bovis*, *A. viscosus*; *Aeromonas hydrophila*, *A. salmonicida*; *Aliivibrio salmonicida*; *Anaplasma phagocytophilum*; *Arcobacter butzleri*; *Avibacterium paragallinarum*; *Bacillus anthracis*, *B. cereus*, *B. licheniformis*, *B. subtilis*, *B. thuringiensis*; *Bacteroides fragilis*; *Bartonella clarridgeiae*, *B. elizabethae*, *B. henselae*, *B. vinsonii*; *Bibersteinia trehalosi*; *B. avium*, *B. bronchiseptica*,

B. paraptussis, *B. pertussis*; *Borrelia afzelii*, *B. anserina*, *B. burgdorferi*, *B. garinii*; *Brachyspira aalborgi*, *B. alvinipulli*, *B. hyodysenteriae*, *B. intermedia*, *B. pilosicoli*, *B. suanatina*; *Brochothrix thermosphacta*; *Brucella abortus*, *B. canis*, *B. ceti*, *B. melitensis*, *B. ovis*, *B. pinnipedialis*, *B. suis*; *Burkholderia mallei*, *B. pseudomallei*; *Campylobacter coli*, *C. fetus*, *C. jejuni*, *C. lari*, *C. upsaliensis*; *Chlamydia trachomatis*; *Chlamydophila abortus*, *C. felis*, *C. psittaci*; *Citrobacter freundii*; *Clostridium botulinum*, group I, II, III, IV; *Clostridium chauvoei*, *C. difficile*, *C. haemolyticum*, *C. novyi*, *C. perfringens*, *C. piliforme*, *C. septicum*, *C. sordellii*, *C. tetani*; *Corynebacterium bovis*, *C. diphtheria*, *C. kutscheri*, *C. pseudotuberculosis*, *C. renale*, *C. ulcerans*; *Coxiella burnetii*; *Dermatophilus congolensis*; *Dichelobacter nodosus*; *Edwardsiella ictaluri*, *E. tarda*; *Ehrlichia canis*, *E. ruminantium*; *Enterococcus faecalis*, *E. faecium*; *Erysipelothrix rhusiopathiae*; *Escherichia coli*; *Flavobacterium columnare*, *F. psychrophilum*; *Francisella noatunensis*, *F. tularensis*; *Fusobacterium canifelinum*, *F. equinum*, *F. necrophorum*; *Gallibacterium anatis*; *Haemophilus parasuis*; *Helicobacter hepaticus*, *H. pylori*; *Histophilus somni*; *Klebsiella oxytoca*, *K. pneumoniae*; *Lactobacillus plantarum*; *Lawsonia intracellularis*; *Legionella pneumophila*; *Leptospira borgpetersenii*, *L. interrogans*, *L. kirschneri*; *Listeria innocua*, *L. ivanovii*, *L. monocytogenes*; *Listonella anguillarum*; *Mannheimia granulomatis*, *M. haemolytica*, *M. varigen*; *Melissococcus plutonius*; *Microcystis aeruginosa*; *Moraxella bovis*, *M. osloensis*; *Morganella morganii*; *Mycobacterium avium*, *M. bovis*, *M. leprae*, *M. marinum*, *M. tuberculosis*; *Mycoplasma agalactiae*, *M. bovis*, *M. capricolum*, *M. felis*, *M. gallisepticum*, *M. haemofelis*, *M. hyopneumoniae*, *M. hyorhinis*, *M. hyosynoviae*, *M. meleagridi*, *M. mycoides*, *M. pneumoniae*, *M. pulmonis*, *M. suis*, *M. synoviae*; *Neisseria gonorrhoeae*; *Neorickettsia risticii*; *Nicoletella semolina*; *Nocardia asteroides*; *Paenibacillus larvae*; *Pasteurella caballi*, *P. dagmatis*, *P. multocida*, *P. pneumotropica*; *Peptoniphilus indolicus*; *Plesiomonas shigelloides*; *Prevotella melaninogenica*; *Proteus mirabilis*, *P. vulgaris*; *Pseudomonas aeruginosa*, *P. anguilliseptica*; *Renibacterium salmoninarum*; *Rhodococcus equi*; *Rickettsia prowazekii*, *R. rickettsia*; *Riemerella anatipestifer*; *Salmonella* spp., *S. enterica*; *Serratia marcescens*; *Shigella dysenteriae*, *S. flexneri*; *Staphylococcus aureus*, *S. epidermidis*, *S. felis*, *S. hyicus*, *S. intermedius*, *S. pseudintermedius*, *S. schleiferi*; *Stenotrophomonas maltophilia*; *Streptobacillus*

moniliformis; *Streptococcus agalactiae*; *S. canis*, *S. devriesei*, *S. dysgalactiae*, *S. equi*, *S. pneumonia*, *S. porcinus*, *S. pyogenes*, *S. suis*, *S. uberis*; *Taylorella asinigenitalis*, *T. equigenitalis*; *Treponema pallidum*, *T. paraluisccuniculi*, *T. pedis*, *T. phagedenis*; *Trueperella pyogenes*; *Ureaplasma diversum*; *Vibrio alginolyticus*, *V. cholera*, *V. parahaemolyticus*, *V. vulnificus*; *Yersinia enterocolitica*, *Y. pestis*, *Y. pseudotuberculosis*, *Y. ruckeri* and other veterinary relevant bacteria known in the art or yet to be discovered.

[0050] The method of reducing the growth or survival of microorganisms includes contacting a microorganism population with an antimicrobial agent of the present disclosure. The method may include first identifying a microorganism population.

[0051] The methods disclosed herein include methods of inhibiting the survival or growth of a microorganism. The term "inhibit" includes a decrease in any detectable amount, for example, 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90% or more, and can be determined by methods known in the art. Exemplary methods of detecting inhibition includes a determination by count, such as a bacterial culture or viral titer, or by evaluation of one or more symptoms associated with infection by a microorganism. Symptoms associated with infection by a microorganism are known in the art. Such symptoms are characteristic to a particular infectious microorganism and the resulting condition.

[0052] A composition that can support growth or survival of a microorganism may be contacted with an effective amount of the antimicrobial agent in a variety of ways. For example, if the composition is a food item, the antimicrobial agent may be added directly to the food, it may be incorporated into the matrix of the packaging material or it may be coated onto the packaging material, in which case the antimicrobial agent may be released during storage, upon dissolution of the encapsulation material, contact with moisture or at a predetermined temperature. If the composition is a body fluid, the antimicrobial agent may be added directly to the body fluid.

[0053] A subject may be contacted with the antimicrobial agent in a variety of ways including, without limitation, administration using routes commonly known in the

art. Such routes include oral, parenteral (including subcutaneous, intravenous, intramuscular and intraperitoneal), rectal, vaginal, dermal, transdermal (topical), transmucosal, intrathoracic, intrapulmonary and intranasal (respiratory) routes. The means of administration may be by injection, using a pump or any other appropriate mechanism.

[0054] An antimicrobial agent disclosed herein may be administered to a subject in a single dose, in multiple doses, in a continuous or intermittent manner, depending, for example, upon the recipient's physiological condition, whether the purpose of the administration is therapeutic or prophylactic, and other factors known to skilled artisans. The administration of the antimicrobial agents may be essentially continuous over a pre-selected period of time or may be in a series of spaced doses. Both local and systemic administration is contemplated.

[0055] The dosage to be administered to a subject may be any amount appropriate to reduce or prevent infection or to treat at least one symptom associated with the infection. Some factors that determine appropriate dosages are well known to those skilled in the art and may be addressed with routine experimentation. For example, determination of the physicochemical, toxicological and pharmacokinetic properties may be made using standard chemical and biological assays and through the use of mathematical modeling techniques known in the chemical, pharmacological and toxicological arts. The therapeutic utility and dosing regimen may be extrapolated from the results of such techniques and through the use of appropriate pharmacokinetic and pharmacodynamic models. Other factors will depend on individual patient parameters including age, physical condition, size, weight, the condition being treated, the severity of the condition, and any concurrent treatment. The dosage will also depend on the agent chosen and whether prevention or treatment is to be achieved, and if the agent is chemically modified.

[0056] The precise amount to be administered to a subject will be the responsibility of the attending physician. However, to achieve the desired effects, an antimicrobial agent disclosed herein may be administered as single or divided dosages. For example, of at least about 0.01 mg/kg to about 500 to 750 mg/kg, of at least about 0.01 mg/kg to about 300 to 500 mg/kg, at least about 0.1 mg/kg to about 100 to 300

mg/kg or at least about 1 mg/kg to about 50 to 100 mg/kg of body weight, although other dosages may provide beneficial results.

[0057] The absolute weight of a given antimicrobial agent disclosed herein included in a unit dose may vary widely. For example, about 0.01 to about 2 g, or about 0.1 to about 500 mg, of at least one antimicrobial agent may be administered. Alternatively, the unit dosage may vary from about 0.01 g to about 50 g, from about 0.01 g to about 35 g, from about 0.1 g to about 25 g, from about 0.5 g to about 12 g, from about 0.5 g to about 8 g, from about 0.5 g to about 4 g, or from about 0.5 g to about 2 g.

[0058] Daily doses of the antimicrobial agents may vary as well. Such daily doses may range, for example, from about 0.1 g/day to about 50 g/day, from about 0.01 g/day to about 25 g/day, from about 0.1 g/day to about 12 g/day, from about 0.5 g/day to about 8 g/day, from about 0.5 g/day to about 4 g/day, and from about 0.5g/day to about 2 g/day.

[0059] An antimicrobial agent may be used alone or in combination with a second medicament. The second medicament may be a known antimicrobial agent such as, but not limited to, a β -lactam, macrolide or other antibiotics, e.g. Azithromycin, Doxycycline, Tetracycline, and Erythromycin; an antifungal agent such as clotrimazole, nystatin, fluconazole, ketoconazole, amphotericin B, caspofungin, or voriconazole; an agent effective against a protozoan such as, for example, Metronidazole or timidazole. The second medicament may also be an antiviral agent such as Abacavir, Acyclovir, Amantadine, Didanosine, Emtricitabine, Enfuvirtide, Entecavir, Ganciclovir, Gardasil, Lamivudine, Nevirapine, Nelfinavir, Oseltamivir, Ribavirin, Rimantadine, Ritonavir, Stavudine, Valaciclovir, Vidarabine, Zalcitabine, and Zidovudine. The effective amount of the second medicament will follow the recommendations of the second medicament manufacturer, the judgment of the attending physician and will be guided by protocols and administrative factors for amounts and dosing as indicated in the PHYSICIAN'S DESK REFERENCE (as commonly known in the art).

[0060] The effectiveness of the method of treatment may be assessed by monitoring the subject for signs or symptoms of the microbial infection as discussed above, as well as determining the presence or amount of microorganism present in the subject by methods known in the art.

III. Kits

[0061] The present disclosure provides articles of manufacture and kits containing materials useful for treating the conditions described herein. The article of manufacture may include a container of a composition as described herein with a label. Suitable containers include, for example, bottles, vials, and test tubes. The containers may be formed from a variety of materials such as glass or plastic. The container holds a composition having an antimicrobial agent disclosed herein, which is effective for inhibiting the growth of a microorganism or treating a condition caused by a microorganism. The label on the container may indicate that the composition is useful for treating specific conditions and may also indicate directions for administration.

DEFINITIONS

[0062] Unless defined otherwise, all technical and scientific terms used herein have the same meaning as is commonly understood by one of ordinary skill in the art. All patents, applications, published applications and other publications are incorporated by reference in their entirety. In the event that there is a plurality of definitions for a term herein, those in this section prevail unless stated otherwise.

[0063] As used herein, “administering” is used in its broadest sense to mean contacting a subject with a composition disclosed herein.

[0064] As used herein, the term “antimicrobial activity” means microbicidal or microbiostatic activity or a combination thereof, against one or more microorganisms. Microbicidal activity refers to the ability to kill or cause irreversible damage to a target microorganism. Microbiostatic activity refers to the ability to inhibit the growth or proliferative ability of a target microorganism without necessarily killing or irreversibly damaging it.

[0065] As used herein, the term “identity” or “sequence identity” refers to a relationship between two or more polypeptide sequences, as well as two or more polynucleotide sequences, namely a reference sequence and a given sequence to be compared with the reference sequence. Sequence identity is determined by comparing the given sequence to the reference sequence after the sequences have been optimally

aligned to produce the highest degree of sequence similarity, as determined by the match between strings of such sequences. Upon such alignment, sequence identity is ascertained on a position-by-position basis. For example, the sequences are “identical” at a particular position if at that position, the nucleotides or amino acid residues are identical. The total number of such position identities is then divided by the total number of nucleotides or residues in the reference sequence to give percent (%) sequence identity. Sequence identity can be readily calculated by known methods, including but not limited to, those described in Computational Molecular Biology, Lesk, A. N., et., Oxford University Press, New York (1988), Biocomputing: Informatics and Genome Projects, Smith, D. W., ed., Academic Press, New York (1993); Computer Analysis of Sequence Data, Part I, Griffin, A.M., and Griffin, H. G., eds., Humana Press, New Jersey (1994); Sequence Analysis in Molecular Biology, von Heinge, G., Academic Press (1987); Sequence Analysis Primer, Gribskov, M. and Devereux, J., eds., M. Stockton Press, New York (1991); and Carillo et al., Applied Math., 48:1073 (1988), the teachings of which are incorporated herein by reference.

[0066] As used herein, the term “inhibit” means a decrease in any amount including, without limitation, a 5%, 10%, 15%, 20%, 25%, 30%, 35%, 40%, 45%, 50%, 55%, 60%, 65%, 70%, 75%, 80%, 85%, 90%, 95%, 100%.

[0067] The term “nucleic acid” is used herein to refer to a polymer of deoxynucleic ribose nucleic acids, as well as ribose nucleic acids. The term includes linear molecules, as well as covalently closed circular molecules. It includes single stranded molecules, as well as double stranded molecules.

[0068] As used herein, “subject” refers to a living organism having a central nervous system. In particular, subjects include, but are not limited to, human subjects or patients and companion animals. Exemplary companion animals may include domesticated mammals (e.g., dogs, cats, horses), mammals with significant commercial value (e.g., dairy cows, beef cattle, sporting animals), mammals with significant scientific values (e.g., captive or free specimens of endangered species), or mammals that otherwise have value. Suitable subjects also include: mice, rats, dogs, cats, ungulates such as cattle, swine, sheep, horses, and goats, lagomorphs such as rabbits and hares, other rodents, and primates such as monkeys and apes. In some aspects,

subjects may be diagnosed with a microbial infection, may be at risk for a microbial infection, or may be experiencing a microbial infection. Subjects may be of any age including new born, adolescence, adult, middle age, or elderly.

[0069] The phrase “therapeutically effective amount” is used herein to mean an amount sufficient to increase to some beneficial degree, preferably to increase by at least about 1 to 100 percent, more preferably by at least about 5 to 95 percent, and more preferably by at least 8 percent or higher, healing or infection improvement as compared to untreated controls. An “effective amount” is a pharmaceutically-effective amount that is intended to qualify the amount of an agent or compound, that when administered to a subject, will achieve the goal of healing an infection site, inhibiting the growth of a microorganism, or otherwise benefiting the recipient environment.

[0070] The term “variant” relates to nucleotide or amino acid sequences which have similar sequences and that function in the same way.

[0071] Amino acid designations may include full name, three-letter, or single-letter designations as commonly understood by one of ordinary skill in the art to which this disclosure belongs.

[0072] As various changes could be made in the above compositions and methods without departing from the scope of the disclosure, it is intended that all matter contained in the above description and in the Examples given below, shall be interpreted as illustrative and not in a limiting sense.

EXAMPLES

Example 1: Antimicrobial activity of antimicrobial agents.

[0073] The antimicrobial agents disclosed are derivatives of SEQ. ID. NO.: 3, having 14 amino acids and a broad spectrum of antimicrobial activity. The antimicrobial agents of the disclosure were synthesized and analyzed to evaluate antimicrobial activity. Initially, the antimicrobial agent of SEQ ID NO.: 3 was evaluated for inhibition of clinical isolates of common mastitis pathogens (Table 1).

Table 1. Antimicrobial activity of the antimicrobial agent of SEQ ID NO.: 3 expressed as minimum inhibitory concentration (MIC).

Clinical pathogen isolate	MIC (μ M)	Bacteria strain
335 B-S	12.5	<i>Streptococcus dysgalactiae</i>
335 B-15	25.0	<i>Klebsiella pneumoniae</i>
404 C-18	12.5	<i>Corynebacterium species</i>
416 B-10	25.0	<i>Staphylococcus aureus</i>
331 C-10	25.0	<i>Staphylococcus aureus</i>
422 C-10	25.0	<i>Staphylococcus aureus</i>

[0074] Additional antimicrobial agents were evaluated for antimicrobial activity, including 23 computationally-derived analogues of SEQ ID NO: 3. These analogues were grouped into two functional series, including those synthesized for improved helicity (Table 2; A-P) and those synthesized for enhanced activity (Table 2; IND, Q-T, and W-X). The antimicrobial activity of the synthetic analogues provided in Table 2 were evaluated using standard techniques such as those described in Sang, et al. 2007 Dev. Comp. Immunol., and herein incorporated by reference. Based on the data collected, three synthetic antimicrobial agents were identified (Table 2, shaded rows) as having superior antimicrobial activity compared to the agent of SEQ ID NO: 3 or SEQ ID NO: 19 (Table 2).

Table 2. Antimicrobial activity of analogs against *Staphylococcus aureus* expressed as minimum inhibitory concentration (MIC).

Peptide	Helicity Score	MW	MIC
A (SEQ ID NO: 3)	3.64	1774.8	16.0
B (SEQ ID NO: 4)	11.12	1748.84	64.0
C (SEQ ID NO: 5)	14.39	1776.22	>256.0
D (SEQ ID NO: 6)	20.37	1790.25	>256.0
E (SEQ ID NO: 7)	3.72	1744.18	256.0

F (SEQ ID NO: 8)	13.13	1718.14	8.0
G (SEQ ID NO: 9)	16.91	1746.19	16.0
H (SEQ ID NO: 10)	23.70	1760.22	16.0
I (SEQ ID NO: 11)	3.12	1774.21	16.0
J (SEQ ID NO: 12)	9.80	1748.17	>256.0
K (SEQ ID NO: 13)	12.75	1776.22	>256.0
L (SEQ ID NO: 14)	18.22	1790.25	>256.0
M (SEQ ID NO: 15)	3.15	1744.28	>256.0
N (SEQ ID NO: 16)	11.47	1718.14	4.0
O (SEQ ID NO: 17)	14.84	1746.19	4.0
P (SEQ ID NO: 18)	18.73	1760.22	64.0
IND (SEQ ID NO: 19)	3.64	1901.27	64.0
Q (SEQ ID NO: 20)	0.17	1758.16	>256.0
R (SEQ ID NO: 21)	13.2	1783.22	32.0
S (SEQ ID NO: 22)	21.7	1767.17	256.0
T (SEQ ID NO: 23)	11.7	1831.22	>256.0
W (SEQ ID NO: 24)	5.0	1788.19	>256.0
X (SEQ ID NO: 25)	6.2	1797.20	>256.0

Example 2. Structural/function analysis of antimicrobial agents.

[0075] The structure/function mechanisms for the antimicrobial agents described herein were evaluated. In order to develop a better understanding of the effects of different amino acids at different positions as well as developing the most biologically active and stable synthetic peptide (s), Quantitative Structure-Activity Relationship (QSAR) modeling was used to guide the optimization of multi-drug resistant *Staphylococcus aureus* antimicrobial formulations.

[0076] Among the four main mechanisms for cellular peptidic antimicrobial action, two (the barrel-stave and toroidal pore) models require stable amphiphilic helical peptides, and a third (in-plane diffusion) requires significant intramolecular stabilization as may be achieved by secondary (helices or sheets) or tertiary (disulphide bonds or salt bridges) structural elements that can guarantee preservation of peptidic amphiphilicity. For peptide families that are known to possess antimicrobial activity and have structural aspects indicative of helix formation (i.e., few or no prolines; sequence with polar – nonpolar alternating in period of about 4 monomers), it is reasonable to assume that the bioactive conformation of the peptide is helical, and that the mechanism of action is one of the three listed above. From this assumption, the antimicrobial agents provided herein have been tailored to have a high helical propensity (as predicted via the Agadir software) and to display substantial amphiphilicity in helical conformation. Such attributes are depicted in FIG. 5 for one of the most potent antimicrobial agents described herein, SEQ ID NO: 17.

[0077] The classic signature of the barrel-stave model is a periodic alternation of hydrophobic, anionic, hydrophobic and cationic patches, enabling the peptides to electrostatically self-assemble in cellular membranes into stable pores that exclude the surrounding lipids and compromise membrane integrity. The antimicrobial agents described herein are strictly cationic, thus obviating the barrel-stave model since a given peptide generally associates more preferentially with the lipid medium than with other peptides. However, they may still significantly interfere with the membrane via either of the remaining two possible models depicted in FIG. 7.

[0078] The high degrees of helical stability and amphiphilicity evident in the peptide formulations strongly suggests either the formation of toroidal pores which span microbe cell membranes inducing cell ion leakage (Fig. 7A), or else the formation of

dimers whose selective lipid interactions disrupt the geometric regularity and stability of the lipid membrane, where these interaction include peptide cation interactions with lipid anions, and peptide aryl disruption of lipid aliphatic/aliphatic interactions.

[0079] Based on the examples described herein, the antimicrobially-potent peptide formulations based primarily on improving helical propensity and amphiphilicity profiles suggest that the observed activity arises from one of the above two mechanisms. The highly systematic nature of the peptides (rigorously hydrophobic, except for arginines in every fourth or fifth position) argues for the more structurally regular model of a toroidal pore (which could functionally assume the role of a voltage-gated channel to compromise cellular pH as per the KvAP peptide). However, the short length of antimicrobial agent peptides (~21 Å from end-to-end in helical conformation) implies that they may not be long enough to span the membrane, which would argue for the in-plane diffusion model.

[0080] Some very basic qualitative rules to explain observed antimicrobial activity trends have been resolved.

- 1) Given Trp in sequence position 4, peptide activity is proportional to the steric compactness of the lipophilic residue at position 3 (i.e., Pro > Ala > Val > Leu), which suggests that spatial compactness is optimal toward the N-terminus of the peptide,
- 2) If position 4 has anything other than a large lipophile, the backbone kink induced by proline is intolerable at position 3, and proline is not tolerated at all at any other position,
- 3) Given Arg in position 4, peptide activity varies according to Ala-3 > Val-3 > Leu-3 > Pro-3, which is to say that spatial compactness is desirable, but the backbone kink induced by proline is unacceptable in this case, and
- 4) Interchanging residues at positions 12 and 13 does not have a major effect on activity, but significant changes to only one of these residues kills activity, indicating that the lipophilic / electropositive balance in this region is critical to activity.

[0081] To differentiate between the two mechanisms of action paradigms described in the previous section, one strategy would be to selectively substitute aromatic residues (i.e., Phe, Trp) for aliphatic (Ile, Leu) and vice versa. These substitutions should generally preserve the amphiphilicity that is required in both models, and some substitutions may enhance helical stability (which also favors both models), however their effect may vary as follows:

- a) Aryl groups, being planar, are more compact than the branched alkyl groups in Ile and Leu side chains and stack better with the planar guanine groups in the requisite arginines, which may favor the formation of orderly pores that interface well with the membrane, while
- b) Alkyl groups are inherently more attractive to the predominantly alkyl lipid medium, but their branched nature tends to produce more structural disorder as per the in-plane diffusion scenario.

[0082] Having elucidated some important structure/function trends, Agadir calculations on conservative substitutions (i.e., ones that change the size and electrostatic character of a residue a little but not much) were performed to further optimize the antimicrobial activity of the WB synthetic peptides. Therefore, the peptides listed below (SEQ ID NO: 26-33) were synthesized and evaluated to capitalize on their helical stability (Table 3).

Table 3. Antimicrobial agents optimized for helical stability.

Peptide	Sequence
WB14-F1 (SEQ ID NO: 26)	GLARILLRLLFFRG
WB14-N1 (SEQ ID NO: 27)	GLARILLRLLFRFG
WB14-O1 (SEQ ID NO: 28)	GLVRILLRLLFRFG
WB14-O2 (SEQ ID NO: 29)	GLVRILLRLLLRFG
WB14-O3 (SEQ ID NO: 30)	SLVRILLRLLLRFG
WB14-O4 (SEQ ID NO: 31)	GLTRILLRLLLRFG
WB14-O5 (SEQ ID NO: 32)	GLVRILLRLLLRYG
WB14-O6 (SEQ ID NO: 33)	GLVRILLRLLLRFS

Example 3. Antimicrobial activity of antimicrobial agent analogs.

[0083] The additional antimicrobial agent analogs optimized for helical stability in Example 2 (Table 3) were evaluated for antimicrobial activity. The antimicrobial activity of the synthetic analogues provided in Table 3 were evaluated using standard techniques such as those described in Sang, et al. 2007 Dev. Comp. Immunol., and herein incorporated by reference. The antimicrobial activity of the agents is provided in Table 4.

Table 4. Antimicrobial Activity of helical stability optimized agents against *Staphylococcus aureus* (Minimum Inhibitory Concentration: MIC in µg/ml).

Peptide	SEQ ID No.	Sequence	MIC duplicates
WB14-A	SEQ ID NO: 3	GLPWILLRWLFFRG	8.0, 16.0
WB14-F	SEQ ID NO: 8	GLARILLRWLFFRG	2.0, 4.0
WB14-N	SEQ ID NO: 16	GLARILLRWLFRFG	4.0, 4.0
WB14-O	SEQ ID NO: 17	GLVRILLRWLFRFG	16.0, 8.0
WB14-F1	SEQ ID NO: 26	GLARILLRLLFFRG	8.0, 8.0
WB14-N1	SEQ ID NO: 27	GLARILLRLLFRFG	128, 128
WB14-O1	SEQ ID NO: 28	GLVRILLRLLFRFG	64, 128
WB14-O2	SEQ ID NO: 29	GLVRILLRLLLRFG	256, 128
WB14-O3	SEQ ID NO: 30	SLVRILLRLLLRFG	128, 128
WB14-O4	SEQ ID NO: 31	GLTRILLRLLLRFG	256, 256
WB14-O5	SEQ ID NO: 32	GLVRILLRLLLRYG	64, 128
WB14-O6	SEQ ID NO: 33	GLVRILLRLLLRFS	> 256, >256

[0084] The results indicated that the antimicrobial agent having SEQ ID NO: 8 was the most efficacious antimicrobial synthetic peptide. The antimicrobial activity of SEQ ID NO. 8 was further evaluated against clinical isolates of mastitis-causing bacteria (Table 5).

Table 5. In vitro antimicrobial activity of the WB-14F peptide (SEQ ID NO.: 8) against clinical isolates of mastitis-causing bacteria.

Clinical Isolate	Bacterial strain	Multidrug resistance	MIC (µg/ml)
335-B05	<i>Streptococcus dysgalactiae</i>	++	8.0
335-B15	<i>Klebsiella pneumoniae</i>	++++	16.0
404-C18	<i>Corynebacterium</i> species	++	16.0
416-B10	<i>Staphylococcus aureus</i>	+++	2.0
212-B05	<i>Escherichia coli</i>	++	4.0
BAA 44* (ATCC)	<i>Staphylococcus aureus</i>	+++++	4.0

The WB-14F was synthesized under the following conditions: >95 % purity; TFA salt; All were L-amino acids; No terminal modification; * ATCC cat. No. BAA 44.

Example 4. In vivo analysis of antimicrobial activity.

[0085] The antimicrobial agent of SEQ ID NO: 8 was evaluated using an in vivo model of bacterial infection to assess the antimicrobial activity of the agent. The following methods and materials were used.

[0086] Bacterial strain. *Staphylococcus aureus* was isolated from milk from dairy cows with clinical mastitis (Livestock Disease Diagnostic Center, University of Kentucky, Lexington, KY). Upon arrival, bacteria were striped on blood agar plates (TSA + 5% sheep blood from Remel, Kansas City, MO) and cultured at 37°C for 24 hrs. A fresh single bacterial colony picked from the agar plate was inoculated into 10 ml of Muller Hinton II broth (MHB) and cultured at 37°C for 4-6 hrs. until reaching an absorbance of 0.8 with a 625 nm spectrophotometer filter. At this absorbance, the MHB has been documented to contain 1×10^5 colony forming units (CFU) in a 50 μ l volume.

[0087] Synthesis of the Water Buffalo Host Defense Peptide. The WB-14F peptide (SEQ ID NO: 8; GLARILLRWLFFRG) was chemically synthesized (Peptide2.0; Chantilly, VA). After synthesis, the WB-14F molecule eluted in a single peak on RP-HPLC, and confirmed by mass spectroscopy. Final purity of the peptide was > 97% with a molecular weight of 1718.4. The peptide was lyophilized and stored at -80°C until use.

[0088] Mastitis mouse model. For the experiment, 56 female Balb/c mice (BW ~ 50 g) at 7-10 days of lactation were used. Four groups of n=14 mice were used for each experiment as described below. For intramammary inoculation the protocol described by Chandler was followed (*J. Med. Microbiol.* V3; 273-282: 1970) with minor modifications. Briefly, lactating mothers were separated from the pups 4 hours before inoculation. Then, pups were allowed to lactate for 1 hour before inoculation to empty the mammary glands. Pups were separated again from the mother and never reunited with her afterwards. After that, mice were anesthetized with a combination of Tiletamine/Zolazepam (Zoletil® 100, Virbac) at a dose of 100 mg/kg IM, and the mammary glands were disinfected with 70% alcohol. Using a stereoscopic microscope a 50 μ L of the previously prepared *S. aureus* suspension (containing 1×10^5 CFU) was inoculated intra-mammarily. Injections were made

slowly, using a 33 G needle (Hamilton, Kent, UK), into the left and right abdominal teats (L4 and R4). After inoculation mice were allowed to recover from the anesthesia.

[0089] Therapeutic effect of the WB-14F compared to controls and antibiotic treated groups. Mice (n=14/group) were treated intra-mammarily using the stereoscopic technique as follows: Group 1: WB-14F (32 µg diluted in 50µl sterile PBS per gland); Group 2: Control, Sterile Phosphate Buffered Saline (50µl per gland); Group 3: Ceptiofur (400 µg diluted in 50µl mineral oil per gland); Group 4: infected but untreated. All groups (except Group 4) received the treatments 24 hours post-infection every 24 hrs. for 3 consecutive days (total of 3 treatments).

[0090] Determination of colony forming units (CFU) in mammary glands. All mice were euthanized (using CO₂) following the AVMA euthanasia guidelines 24 hours after the last treatment. The infected mammary glands (L4 and R4) were removed individually using soft tissue dissection and homogenized in 1 ml of sterile PBS in Falcon tubes using a Polytron tissue homogenizer (Kinematica, Switzerland). Dilutions (10⁻¹, 10⁻², and 10⁻³) of the homogenates were plated quantitatively to determine the number of CFU per gland. Results were reported as the average of the results from the two glands (L4 and R4) from each animal.

[0091] Statistical Analysis. Kruskal-Wallis with Dunn's post-test was performed using GraphPad Prism Ver.5.0a for Mac, GraphPad Software, San Diego California USA. A statistically significant difference (P<0.001) was found between the groups (FIG. 5), with the post-hoc test showing a difference between the WB-14F versus the three control groups (PBS, ATBX, and N1901.27on-Tx) at a 5% level of significance.

Example 5. Structural/functional analysis of linked dimer peptide antimicrobial agents.

[0092] A key component of the preliminary design and screening of covalently-linker peptide dimer formulations entailed the use of molecular dynamics simulations.

[0093] The sequence-specific activity dependence observed from in vivo studies is closely corroborated by intradimer interactions observed in molecular

dynamics simulations of unlinked (non-covalent) peptide dimers. Subsequent molecular dynamics simulations have produced strong evidence that the interactions evident in the non-covalent dimers (shown graphically in FIG. 3) are preserved or amplified in specially-formulated covalently-linked dimers (as shown in FIG. 4).

[0094] Key structural features of the non-covalent and covalently-linked dimer systems that best corroborate experimental in vivo activities include 1) preservation of monomer helical structure, 2) retention of intradimer lipophilic and electrostatic coupling, plus strong evidence of both of the following intermolecular interactions: 3) peptide / membrane nonpolar coupling whereby peptide aryl amino acids interact with membrane lipids so as to insert aryl groups between individual lipid molecules, and 4) peptide / membrane electrostatic coupling between peptide cationic residues and anionic lipid head groups. For each of these four interaction classes, specific quantitative metrics were defined based on the relative percentage of simulation time in which specific atoms of the peptide reside within set distances of specific atoms of the intramolecular or intermolecular interaction partners. Specifically, consistent preservation of non-polar interatomic distances of no more than 4.0 Angstroms were used to identify preservation of key nonpolar features, and consistent preservation of polar interatomic distances of no more than 2.5 Angstroms were used to identify preservation of key polar features.

[0095] The four structural features described above were found via molecular dynamics simulations to be particularly well preserved or amplified by the following specific covalent linker formulations: DNNNNNN (SEQ ID NO: 34); DGGGGGG (SEQ ID NO: 38); DNNNNN (SEQ ID NO: 35); and, DGGGGG (SEQ ID NO: 37), where in each of the above cases the N-terminus of linker sequence covalently couples via a normal peptide bond to the C-terminus of the first peptide monomer, and the C-terminus of the linker sequence covalently couples via a normal peptide bond to the N-terminus of the second peptide monomer.

[0096] The invention illustratively disclosed herein suitably may be practiced in the absence of any element, which is not specifically disclosed herein. It is apparent to those skilled in the art, however, that many changes, variations, modifications, other uses, and applications to the method are possible, and also changes, variations,

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modifications, other uses, and applications which do not depart from the spirit and scope of the disclosure are deemed to be covered by the disclosure, which is limited only by the claims which follow.

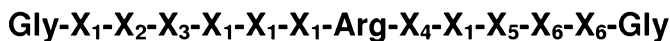
As used herein, except where the context requires otherwise, the term 'comprise' and variations of the term, such as 'comprising', 'comprises' and 'comprised', are not intended to exclude other additives, components, integers or steps.

Reference to any prior art in the specification is not, and should not be taken as, an acknowledgment, or any form of suggestion, that this prior art forms part of the common general knowledge in Australia or any other jurisdiction or that this prior art could reasonably be expected to be ascertained, understood and regarded as relevant by a person skilled in the art.

CLAIMS

What is claimed is:

1. An antibiotic composition comprising an antibiotic peptide, wherein the peptide comprises a synthetic amino acid sequence having the sequence of formula 1



wherein

X₁ is selected from the group of Leu or Ile,

X₂ is selected from the group of Ala, Val, Leu, or Ile,

X₃ is selected from the group of Arg or Trp,

X₄ is selected from the group of Trp, Ile, or Leu

X₅ is selected from the group of Phe or Trp, and

X₆ is selected from the group of Phe, Trp, or Arg.

2. An antibiotic composition comprising an antibiotic peptide, wherein the peptide comprises a synthetic amino acid sequence having the sequence of formula 1



wherein

X₁ is selected from the group of Leu or Ile,

X₂ is selected from the group of Ala, Val, Leu, Ile, or Pro,

X₃ is selected from the group of Arg or Trp,

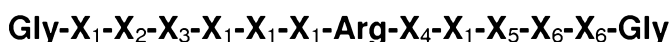
X₄ is selected from the group of Trp, Ile, or Leu

X₅ is selected from the group of Phe or Trp, and

X₆ is selected from the group of Phe, Trp, or Arg.

3. An antibiotic composition comprising an antibiotic peptide, wherein the peptide comprises:

- a. a first synthetic amino acid sequence having the sequence of formula 1



wherein

X₁ is selected from the group of Leu or Ile,

X₂ is selected from the group of Ala, Val, Leu, or Ile,

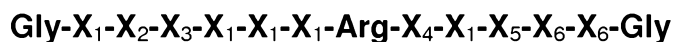
X₃ is selected from the group of Arg or Trp,

X₄ is selected from the group of Trp, Ile, or Leu

X₅ is selected from the group of Phe or Trp, and

X₆ is selected from the group of Phe, Trp, or Arg;

- b. a second synthetic amino acid sequence having the sequence of formula 1



wherein

X₁ is selected from the group of Leu or Ile,

X₂ is selected from the group of Ala, Val, Leu, or Ile, or Pro,

X₃ is selected from the group of Arg or Trp,

X₄ is selected from the group of Trp, Ile, or Leu

X₅ is selected from the group of Phe or Trp, and

X₆ is selected from the group of Phe, Trp, or Arg; and,

- c. a linker sequence, wherein the linker sequence operably connects the first amino acid sequence and the second amino acid sequence.

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4. An antimicrobial composition comprising an antibiotic peptide, wherein the peptide comprises:

a. a first synthetic amino acid sequence having the sequence of formula 1



wherein

X₁ is selected from the group of Leu or Ile,

X₂ is selected from the group of Ala, Val, Leu, Ile, or Pro,

X₃ is selected from the group of Arg or Trp,

X is selected from the group of Trp, Ile, or Leu

X₅ is selected from the group of Phe or Trp, and

X₆ is selected from the group of Phe or Trp;

b. a second synthetic amino acid sequence having the sequence of formula 1



wherein

X₁ is selected from the group of Leu or Ile,

X₂ is selected from the group of Ala, Val, Leu, Ile, or Pro,

X₃ is selected from the group of Arg or Trp,

X is selected from the group of Trp, Ile, or Leu

X₅ is selected from the group of Phe or Trp, and

X₆ is selected from the group of Phe or Trp; and,

c. a linker sequence, wherein the linker sequence operably connects the first amino acid sequence and the second amino acid sequence.

5. The antimicrobial composition of any one of claims 1 to 4, wherein the composition inhibits growth of microorganisms.

6. The antimicrobial composition of claim 5, wherein the microorganisms are selected from the group consisting of bacteria, fungi, yeast, mold, and combinations thereof.

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7. The antimicrobial composition of claim 6, wherein the bacteria are selected from the group consisting of *Pseudomonas*, *Escherichia*, *Staphylococcus*, *Streptococcus*, *Enterococcus*, *Mycobacteria*, *Haemophilus*, and combinations thereof.
8. The antimicrobial composition of any one of claims 1 to 4 further comprising a pharmaceutical carrier.
9. The antimicrobial composition of any one of claims 1 to 4, wherein the synthetic amino acid sequence has at least 85% sequence identity to SEQ ID NO: 8.
10. A method for inhibiting growth of a microorganism comprising contacting the microorganism, for a time and under conditions effective to inhibit microorganism growth, with a composition of any one of claims 1 to 4.
11. The method of claim 10, wherein the microorganism is selected from the group consisting of bacteria, fungi, yeast, mold, and combinations thereof.
12. The method of claim 11, wherein the bacteria are selected from the group consisting of *Pseudomonas*, *Escherichia*, *Staphylococcus*, *Streptococcus*, *Enterococcus*, *Mycobacteria*, *Haemophilus*, and combinations thereof.
13. The method of claim 11, wherein the microorganism is selected from the group consisting of *Streptococcus agalactiae*, *Staphylococcus aureus*, *Enterobacter aerogenes*, *Klebsiella pneumoniae*, *Actinomyces pyogenes*, *Streptococcus uberis*, *Streptococcus dysgalactiae*, and combinations thereof.
14. The method of claim 10, wherein the growth of a microorganism is inhibited at least 10%.
15. A method of treating microbial infection, the method comprising:
 - a. identifying a subject having a microbial infection; and,
 - b. administering a therapeutically effective amount of the antibiotic composition of any one of claims 1 to 4.
16. The method of claim 15, wherein the antibiotic composition further comprises a pharmaceutical carrier.
17. The method of claim 15 or 16 further comprising inhibiting the growth of a mastitis infection causing microorganism by at least 10%.

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18. A method of treating mastitis, the method comprising:
- a. identifying a subject having mastitis; and,
 - b. administering a therapeutically effective amount of the antibiotic composition of any one of claims 1 to 4.
- 5 19. The method of claim 18, wherein the antibiotic composition is administered to the mammary tissue of the subject.
20. The method of claim 18 or 19 further comprising inhibiting the growth of a mastitis infection causing microorganism by at least 10%.
21. Use of the antibiotic composition of any one of claims 1 to 4 in the manufacture of a medicament for the treatment of microbial infection in a subject identified as having a microbial infection.
22. Use of the antibiotic composition of any one of claims 1 to 4 in the manufacture of a medicament for the treatment of mastitis in a subject identified as having mastitis.

FIG. 1



1 = G
 2 = L or I
 3 = [(A or V or I or L) if 4 = R] or [(P) if 4 = W]
 4 = [(R) if 3 = (A or V or I or L)] or [(W) if 3 = P]
 5 = I or L
 6 = L or I
 7 = L or I
 8 = R
 9 = W or I or L
 10 = L or I
 11 = F or W
 12 = [(F or W) if 13 = (R)] or [(R) if 13 = (F or W)]
 13 = [(R) if 12 = (F or W)] or [(F or W) if 12 = (R)]
 14 = G

FIG. 2



FIG. 3

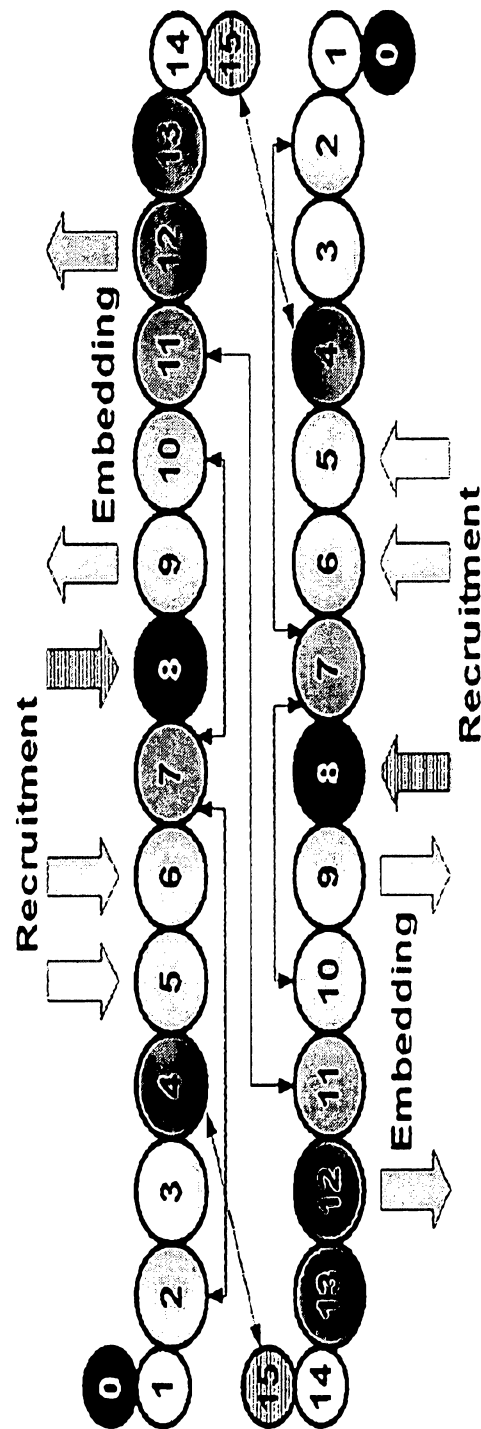


FIG. 4

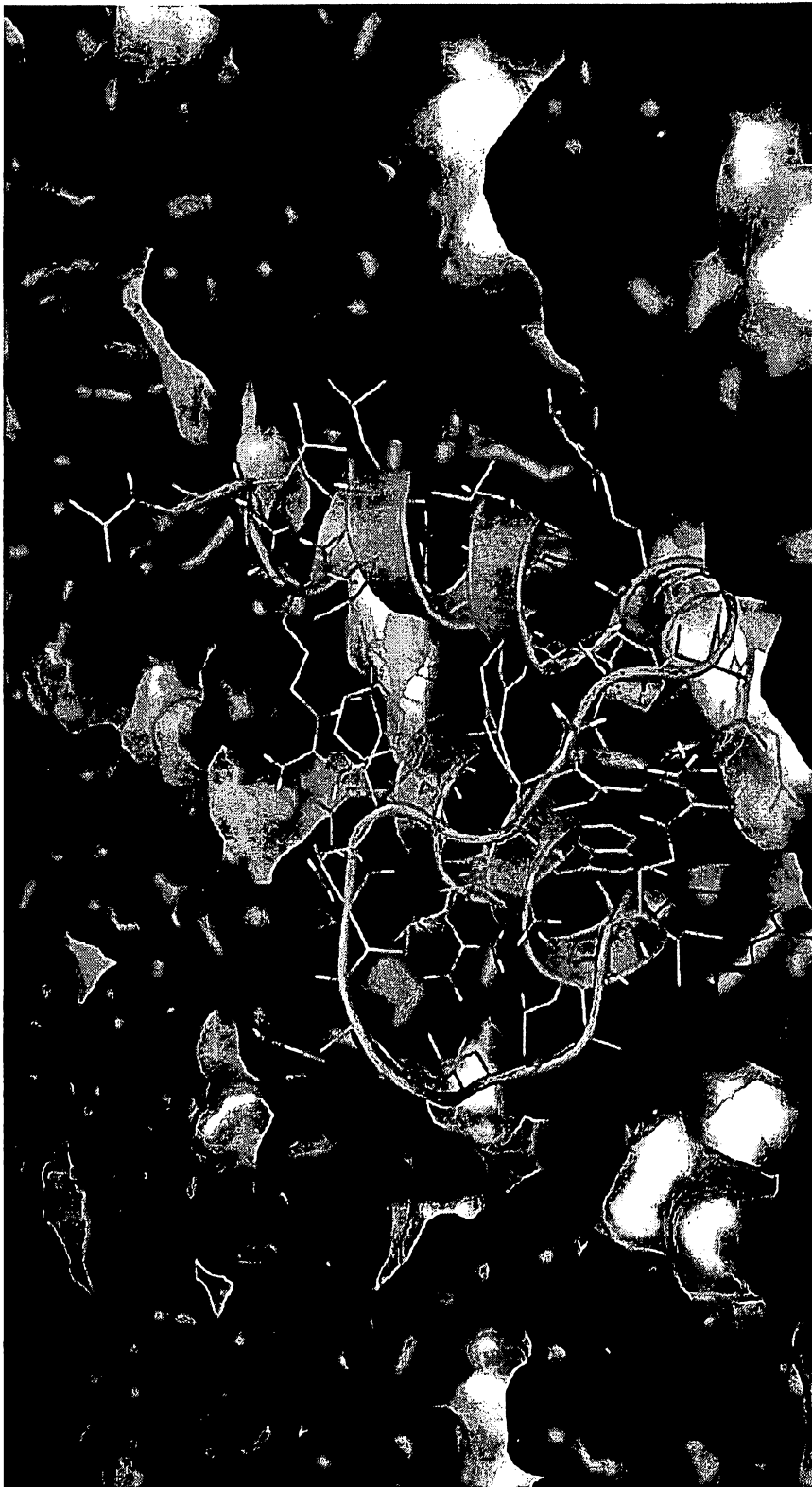
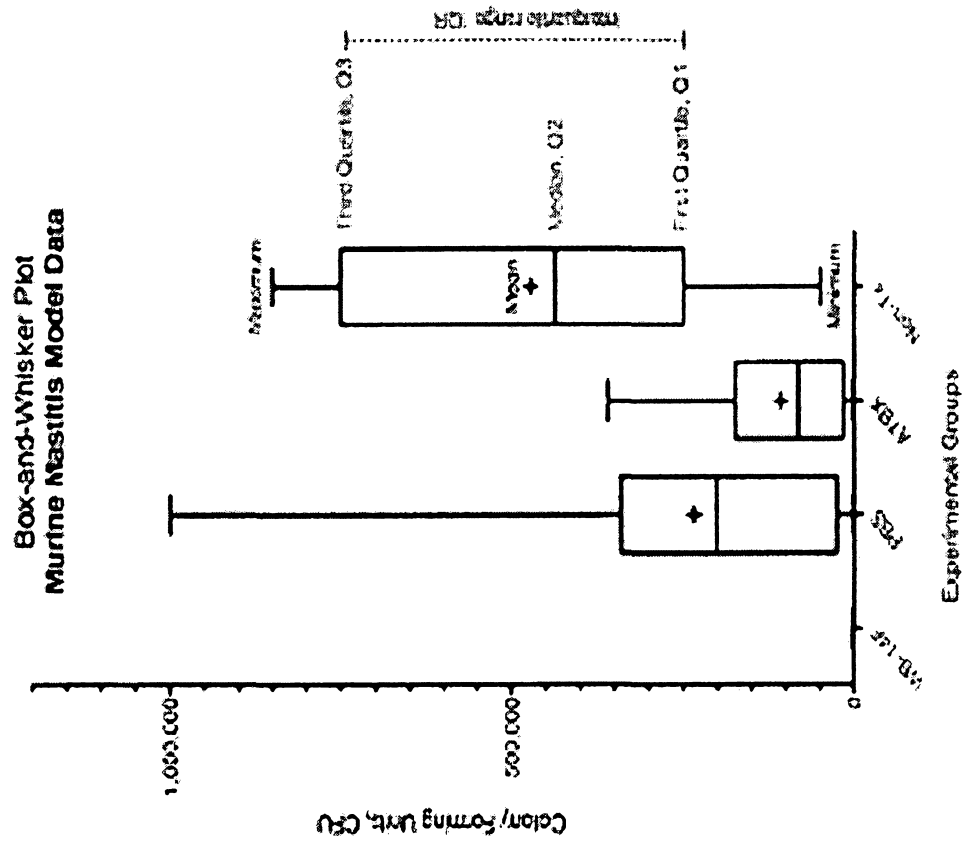


FIG. 5



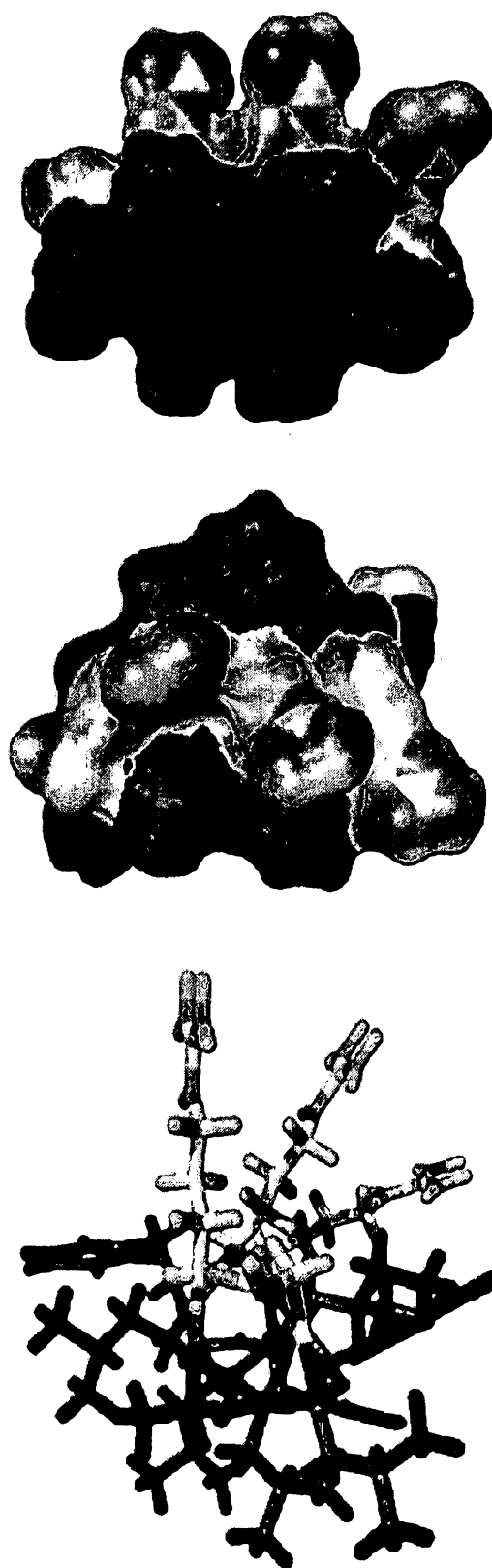
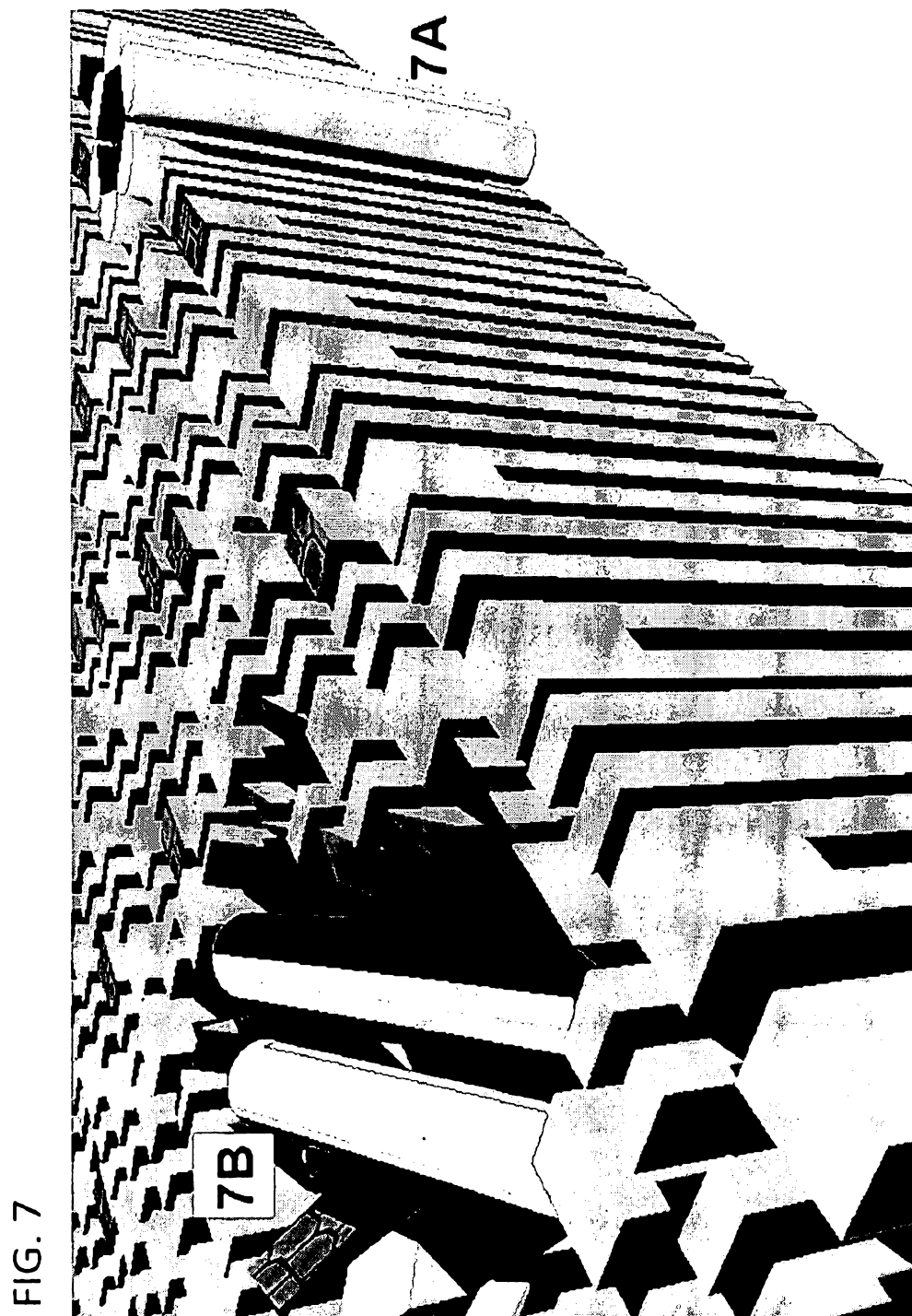


FIG. 6



496416_PCT_ST25
SEQUENCE LISTING

<110> Centaur, Inc.
Melgarejo, Tona
Linde, Annika
Lushington, Gerry

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<130> 072835-476626

<160> 4101

<170> PatentIn version 3.5

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Ser	Tyr	Arg	Glu	Ala	Val	Leu	Arg	Ala	Val	Asp	Gln	Leu	Asn	Glu	Arg
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Ser	Ser	Glu	Ala	Asn	Leu	Tyr	Arg	Leu	Leu	Val	Leu	Asp	Pro	Pro	Leu
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Lys	Asp	Asp	Ala	Asp	Leu	Gly	Thr	Arg	Lys	Pro	Val	Ser	Phe	Thr	Val
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Arg Phe Gly
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496416_PCT_ST25

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Phe Gly

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<211> 34

<212> PRT

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<220>

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<400> 75

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Tyr Gly

<210> 76

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 76

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 77

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 77

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

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Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 78
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 78

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 79
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 79

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 80
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 80

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg

Phe Gly

<210> 81
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 81

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Arg Gly

<210> 82
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 82

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 83
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 83

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 84
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 84

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 85
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 85

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 86
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 86

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly

35

<210> 87
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 87

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 88
 <211> 35
 <212> PRT
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<220>
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<400> 88

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 89
 <211> 35
 <212> PRT
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<220>
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<400> 89

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
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<210> 90
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 90

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 91
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 91

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 92
 <211> 35
 <212> PRT
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<400> 92

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 93

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<211> 35
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<220>
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<400> 93

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 94
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 94

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 95
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 95

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 96
 <211> 35
 <212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 96

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 97

<211> 36

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 97

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 98

<211> 36

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 98

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 99

<211> 36

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 99

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 100

<211> 36

<212> PRT

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<400> 100

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 101

<211> 36

<212> PRT

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<223> Antimicrobial peptide sequence

<400> 101

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Phe Arg Gly
35

<210> 102

<211> 36

<212> PRT

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<400> 102

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 103

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 103

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 104

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 104

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Phe Gly
35

<210> 105

<211> 36

<212> PRT

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<400> 105

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Tyr Gly
35

<210> 106
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<400> 106

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 107
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 107

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 108
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 108

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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1

5

10

15

Gly Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 109
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 109

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 110
 <211> 36
 <212> PRT
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<220>
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<400> 110

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 111
 <211> 36
 <212> PRT
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<220>
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<400> 111

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

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Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
35

<210> 112
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 112

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 113
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 113

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 114
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 114

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
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Gly

<210> 115
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 115

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 116
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 116

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
 20 25 30

Gly

<210> 117
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 117

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
 20 25 30

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Gly

<210> 118
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 118

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
 20 25 30

Gly

<210> 119
 <211> 33
 <212> PRT
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<220>
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<400> 119

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
 20 25 30

Gly

<210> 120
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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 120

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
 20 25 30

Gly

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<210> 121
 <211> 33
 <212> PRT
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<220>
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<400> 121

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 122
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 122

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 123
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 123

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

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<210> 124
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 <212> PRT
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<220>
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<400> 124

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 125
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 <212> PRT
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<220>
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<400> 125

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 126
 <211> 33
 <212> PRT
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<400> 126

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
 20 25 30

Gly

<210> 127

496416_PCT_ST25

<211> 34
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<220>
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<400> 127

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 128
<211> 34
<212> PRT
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<220>
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<400> 128

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 129
<211> 34
<212> PRT
<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 129

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 130
<211> 34
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<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 130

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 131

<211> 34

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 131

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 132

<211> 34

<212> PRT

<213> Artificial Sequence

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<400> 132

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 133

<211> 34

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<220>

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<400> 133

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 134

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<400> 134

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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20 25 30

Phe Gly

<210> 135

<211> 34

<212> PRT

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<223> Antimicrobial peptide sequence

<400> 135

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 136

<211> 34

<212> PRT

<213> Artificial Sequence

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496416_PCT_ST25

<400> 136

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1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 137

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<400> 137

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 138

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<400> 138

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 139

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<400> 139

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 140
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 141
<211> 34
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<400> 141

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Arg Gly

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<220>
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<400> 142

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Arg Phe Gly
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Arg Phe Gly
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20 25 30

Phe Arg Gly
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Arg Phe Gly
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Page 44

Arg Phe Gly
35

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<400> 149

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Arg Phe Gly
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Arg Tyr Gly
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20 25 30

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Phe Arg Gly
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Phe Arg Gly
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Phe Arg Gly
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 20 25 30

Arg Phe Gly
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 20 25 30

Arg Arg Gly
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Phe Phe Arg Gly
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Phe Phe Arg Gly
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Phe Arg Phe Gly
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Phe Arg Phe Gly
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Phe Phe Arg Gly
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Leu Arg Phe Gly
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<211> 36

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Phe Phe Arg Gly
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Phe Phe Arg Gly
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Phe Phe Arg Gly
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Phe Arg Phe Gly
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Phe Arg Arg Gly
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Phe Arg Gly
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<210> 173

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Phe Arg Gly
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Arg Phe Gly
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Arg Phe Gly
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Arg Phe Gly
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Arg Phe Gly
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Phe Arg Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
35

<210> 183
<211> 35
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<213> Artificial Sequence

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<400> 183

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Phe Arg Gly
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Arg Phe Gly
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20 25 30

Arg Phe Gly
35

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20 25 30

Arg Arg Gly
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<212> PRT
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20 25 30

Phe Arg Gly
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20 25 30

Phe Arg Gly

35

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 20 25 30

Arg Phe Gly
 35

<210> 190
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<400> 190

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 20 25 30

Arg Phe Gly
 35

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Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

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<400> 192

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Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 193
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<400> 193

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 194
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<400> 194

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 20 25 30

Arg Phe Gly
 35

<210> 195

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<220>
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<400> 195

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 20 25 30

Arg Tyr Gly
 35

<210> 196
 <211> 35
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<400> 196

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 20 25 30

Phe Arg Gly
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<210> 197
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<400> 197

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 20 25 30

Phe Arg Gly
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<210> 198
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 <212> PRT

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<400> 198

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20 25 30

Phe Arg Gly
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20 25 30

Arg Phe Gly
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Arg Phe Gly
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20 25 30

Arg Arg Gly
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<210> 202

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<212> PRT

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Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 203

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 203

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Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 204

<211> 35

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20 25 30

Arg Phe Gly
35

<210> 205

<211> 35

<212> PRT

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 206

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 206

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Phe Arg Gly
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<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 207

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210> 208
<211> 35
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<400> 208

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<400> 209

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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<400> 210

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser

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Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
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<210> 211
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 <212> PRT
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<400> 211

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 212
 <211> 35
 <212> PRT
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<400> 212

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 213
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<400> 213

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
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Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 214
<211> 35
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<400> 214

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 216
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<400> 216

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
Page 66

Arg Arg Gly
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<210> 217
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 217

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 218
<211> 35
<212> PRT
<213> Artificial Sequence

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<400> 218

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 219
<211> 35
<212> PRT
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<400> 219

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

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Arg Phe Gly
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<210> 220
<211> 35
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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<211> 35
<212> PRT
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<400> 221

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly

35

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<400> 223

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 224
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 <212> PRT
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<400> 224

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 225
 <211> 35
 <212> PRT
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<220>
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<400> 225

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

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<210> 226
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<220>
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<400> 226

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 227
 <211> 35
 <212> PRT
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<220>
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<400> 227

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 228
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 <212> PRT
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<400> 228

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 229

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 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 230
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 <212> PRT
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<400> 230

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 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 231
 <211> 35
 <212> PRT
 <213> Artificial Sequence

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<400> 231

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 232
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 <212> PRT

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<213> Artificial Sequence

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<400> 232

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 233

<211> 35

<212> PRT

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<400> 233

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 234

<211> 35

<212> PRT

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<400> 234

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
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Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 235

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<223> Antimicrobial peptide sequence

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
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Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 236

<211> 35

<212> PRT

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
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Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 237

<211> 35

<212> PRT

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<223> Antimicrobial peptide sequence

<400> 237

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
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Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 238

<211> 35

<212> PRT

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<400> 238

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
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Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 239

<211> 35

<212> PRT

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 240

<211> 35

<212> PRT

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 241

<211> 35

<212> PRT

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<400> 241

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 242
<211> 35
<212> PRT
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<400> 242

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 243
<211> 35
<212> PRT
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<220>
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<400> 243

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 244
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 244

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser

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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210>	245
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<223> Antimicrobial peptide sequence
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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210>	246
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210>	247
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

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Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 248
 <211> 35
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<400> 248

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 249
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<400> 249

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 250
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<400> 250

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

<210> 251
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 251

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 252
<211> 35
<212> PRT
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<400> 252

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 253
<211> 35
<212> PRT
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<220>
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<400> 253

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

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Arg Phe Gly
35

<210> 254
<211> 35
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<400> 254

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 255
<211> 35
<212> PRT
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<400> 255

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 256
<211> 35
<212> PRT
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<220>
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<400> 256

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

35

<210> 257
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<400> 257

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 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 258
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<220>
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<400> 258

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 259
 <211> 35
 <212> PRT
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<220>
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<400> 259

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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<220>
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<400> 260

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 261
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 <212> PRT
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<220>
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<400> 261

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 262
 <211> 35
 <212> PRT
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<400> 262

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 263

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<211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 263

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 264
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 264

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 265
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 265

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 266
 <211> 35
 <212> PRT

496416_PCT_ST25

<213> Artificial Sequence

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<400> 266

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 267

<211> 35

<212> PRT

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<400> 267

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 268

<211> 35

<212> PRT

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<220>

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<400> 268

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

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<211> 35

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<400> 269

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
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Gly His Gly His Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 270

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 270

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
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Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<400> 271

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 272

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 272

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 273

<211> 35

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<400> 273

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 274

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<400> 274

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 275

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<400> 275

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
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Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 276
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<400> 276

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<400> 277

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 278
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10

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His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 280
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
 35

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<400> 281

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His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
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 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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 1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Phe Gly
35

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<211> 35
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<400> 285

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly

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 1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 292
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 1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 293
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Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 295
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Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 296
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 1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

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20 25 30

Arg Phe Gly
35

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1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 299
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<400> 299

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20 25 30

Arg Phe Gly
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Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 301

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Asn His Asn His Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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20 25 30

Phe Arg Gly
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<210> 303

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Phe Arg Gly
35

<210> 304

<211> 35

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Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 305

<211> 35

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Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 306

<211> 35

<212> PRT

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Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 307

<211> 35

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1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 308

<211> 35

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<210> 309

<211> 35

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His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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<210> 312
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<220>
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<400> 312

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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1 5 10 15
His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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20 25 30

Arg Tyr Gly
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20 25 30

Phe Arg Gly
35

<210> 317
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20 25 30

Phe Arg Gly
35

<210> 318
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His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe

Phe Arg Gly
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20 25 30

Arg Phe Gly
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<210> 320
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His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 321
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His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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20 25 30

Gly

<210> 323
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20 25 30

Gly

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20 25 30

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 20 25 30

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<400> 326

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 20 25 30

Gly

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 20 25 30

Gly

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Gly

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Gly

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 1 5 10 15

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Gly

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<400> 331

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Gly

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20 25 30

Gly

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Gly

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Gly

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
20 25 30

Gly

<210> 337

<211> 34

<212> PRT

<213> Artificial Sequence

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<220>

<223> Antimicrobial peptide sequence

<400> 337

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 338

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 338

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 339

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 339

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 340

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 340

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 341

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 341

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 342

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 342

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 343

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 343

496416_PCT_ST25

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 344
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 344

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Phe Gly

<210> 345
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 345

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 346
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 346

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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1

5

10

15

Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 347
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 347

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 348
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 348

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 349
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 349

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

496416_PCT_ST25

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 350
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 350

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 351
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 351

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Arg Gly

<210> 352
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 352

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
Page 110

Phe Arg Gly
35

<210> 353
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 353

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 354
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 354

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 355
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 355

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 356
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 356

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 357
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 357

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 358
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 358

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly

35

<210> 359
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 359

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 360
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 360

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 361
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 361

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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<210> 362
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 362

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 363
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 363

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 364
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 364

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 365

496416_PCT_ST25

<211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 365

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 366
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 366

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 367
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 367

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 368
 <211> 36
 <212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 368

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 369

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 369

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 370

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 370

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 371

<211> 36

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

<223> Antimicrobial peptide sequence

<400> 371

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Phe Arg Gly
35

<210> 372

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 372

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 373

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 373

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 374

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 374

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Phe Gly
35

<210> 375

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 375

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Tyr Gly
35

<210> 376

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 376

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 377

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 377

496416_PCT_ST25

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 378
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 378

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 379
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 379

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 380
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 380

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu

20 25 30

Phe Arg Phe Gly
35

<210>	381
<211>	36
<212>	PRT
<213>	Artificial sequence

<220>
<223> Antimicrobial peptide sequence

<400> 381

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
35

<210>	382
<211>	33
<212>	PRT
<213>	Artificial sequence

<220>
<223> Antimicrobial peptide sequence

<400> 382

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210>	383
<211>	33
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 383

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

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Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 384
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
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<400> 384

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 385
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 385

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 386
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 386

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg

Gly

<210> 387
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
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<400> 387

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 388
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 388

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 389
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 389

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

<210> 390
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 390

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
 20 25 30

Gly

<210> 391
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 391

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 392
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 392

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

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<210> 393
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 393

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 394
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 394

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 395
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 395

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

496416_PCT_ST25

<210> 396
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 396

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
 20 25 30

Gly

<210> 397
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 397

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 398
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 398

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 399

496416_PCT_ST25

<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 399

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 400
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 400

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 401
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 401

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 402
<211> 34
<212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 402

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 403

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 403

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 404

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 404

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Phe Gly

<210> 405

<211> 34

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

<223> Antimicrobial peptide sequence

<400> 405

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 406

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 406

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 407

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 407

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 408

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

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<400> 408

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 409

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 409

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 410

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 410

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 411

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 411

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Arg Gly

<210> 412
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 412

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 413
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 413

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 414
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 414

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn

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1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210>	415
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210>	416
<211>	35
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210>	417
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<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

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Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 418
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 418

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 419
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 419

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 420
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 420

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 Page 132

Arg Tyr Gly
35

<210> 421
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 421

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 422
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 422

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 423
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 423

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 424
<211> 35
<212> PRT
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<220>
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<400> 424

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 425
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 425

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 426
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 426

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly

35

<210> 427
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 427

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 428
 <211> 36
 <212> PRT
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<220>
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<400> 428

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 429
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 429

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

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<210> 430
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 430

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 431
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 431

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 432
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 432

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 433

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<211> 36
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<220>
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<400> 433

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 434
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 434

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Phe Gly
 35

<210> 435
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 435

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Tyr Gly
 35

<210> 436
 <211> 36
 <212> PRT

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<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 436

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 437

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 437

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 438

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

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<400> 438

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 439

<211> 36

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 439

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 440

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 440

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 441

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

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<400> 441

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
35

<210> 442

<211> 35

<212> PRT

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<220>

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<400> 442

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 443

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 443

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 444

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 444

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 445

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 445

496416_PCT_ST25

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 446
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 446

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 447
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 447

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 448
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 448

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
Page 141

1

5

10

15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 449
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 449

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 450
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 450

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 451
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 451

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

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Gly Asn Gly Asn Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 452
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 452

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 453
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 453

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 454
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 454

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
35

<210> 455
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 455

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 456
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 456

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 457
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 457

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 458
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 458

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 459
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 459

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 460
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 460

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly

35

<210> 461
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 461

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 462
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 462

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 463
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 463

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 464
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 464

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 465
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 465

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 466
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 466

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 467

496416_PCT_ST25

<211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 467

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 468
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 468

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 469
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 469

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 470
 <211> 35
 <212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 470

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 471

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 471

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 472

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 472

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 473

<211> 35

<212> PRT

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496416_PCT_ST25

<220>

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<400> 473

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 474

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 474

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 475

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 475

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 476

<211> 35

<212> PRT

<213> Artificial Sequence

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496416_PCT_ST25

<400> 476

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 477

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 477

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 478

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 478

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 479

<211> 35

<212> PRT

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<400> 479

496416_PCT_ST25

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 480
<211> 35
<212> PRT
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<220>
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<400> 480

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 481
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 481

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 482
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 482

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
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1

5

10

15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 483
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 483

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 484
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 484

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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<400> 485

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
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Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 486
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 486

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 487
<211> 35
<212> PRT
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<400> 487

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 488
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 488

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
Page 154

Phe Arg Gly
35

<210> 489
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 489

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 490
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 490

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 491
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 491

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 492
<211> 35
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<400> 492

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 493
<211> 35
<212> PRT
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<400> 493

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 494
<211> 35
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<400> 494

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly

35

<210> 495
 <211> 35
 <212> PRT
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<220>
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<400> 495

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 496
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 496

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 497
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 497

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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<210> 498
 <211> 35
 <212> PRT
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<220>
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<400> 498

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 499
 <211> 35
 <212> PRT
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<220>
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<400> 499

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 500
 <211> 35
 <212> PRT
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<220>
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<400> 500

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 501

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<211> 35
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<220>
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<400> 501

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 502
 <211> 35
 <212> PRT
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<220>
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<400> 502

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 503
 <211> 35
 <212> PRT
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<220>
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<400> 503

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 504
 <211> 35
 <212> PRT

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<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 504

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 505

<211> 35

<212> PRT

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<400> 505

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 506

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 506

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 507

<211> 35

<212> PRT

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<220>

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<400> 507

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 508

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 508

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 509

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 509

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 510

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

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<400> 510

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 511

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 511

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 512

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 512

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 513

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 513

496416_PCT_ST25

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 514
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 514

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 515
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 515

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 516
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 516

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser

1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210>	517
<211>	35
<212>	PRT
<213>	Artificial sequence

<220>
<223> Antimicrobial peptide sequence

<400> 517

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210>	518
<211>	35
<212>	PRT
<213>	Artificial sequence

<220>
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<400> 518

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210>	519
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<220>
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<400> 519

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

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Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 520
<211> 35
<212> PRT
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<220>
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<400> 520

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 521
<211> 35
<212> PRT
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<220>
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<400> 521

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 522
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 522

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
Page 165

Arg Phe Gly
35

<210> 523
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 523

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 524
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 524

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 525
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 525

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 526
<211> 35
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<400> 526

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 527
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 527

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 528
<211> 35
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<213> Artificial Sequence

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<400> 528

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

35

<210> 529
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 529

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 530
 <211> 35
 <212> PRT
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<220>
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<400> 530

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 531
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 531

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

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<210> 532
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 532

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 533
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 533

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 534
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 534

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

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1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

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Arg Phe Gly
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Arg Phe Gly
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Phe Arg Gly
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Phe Arg Gly
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Phe Arg Gly
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Arg Phe Gly
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Arg Phe Gly
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Arg Phe Gly
35

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 551
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 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Phe Arg Gly
 35

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His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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Arg Phe Gly
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Arg Phe Gly
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His Gly His Gly His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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20 25 30

Phe Arg Gly

35

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Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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 20 25 30

Arg Phe Gly
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 20 25 30

Arg Phe Gly
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Phe Arg Gly
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Arg Phe Gly
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1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

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1 5 10 15

Asn His Asn His Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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1 5 10 15

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20 25 30

Phe Arg Gly
35

<210> 574

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Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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20 25 30

Phe Arg Gly
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Arg Phe Gly
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Arg Phe Gly
35

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Phe Arg Gly
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20 25 30

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1 5 10 15
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Arg Phe Gly
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His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Gly

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Gly

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Gly

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Gly

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 20 25 30

Gly

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
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Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
 20 25 30

Gly

<210> 601
 <211> 33
 <212> PRT
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<220>
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<400> 601

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 602
 <211> 33
 <212> PRT
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<220>
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<400> 602

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 603

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<211> 33
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 <213> Artificial Sequence

<220>
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<400> 603

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 604
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 604

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 605
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 605

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 606
 <211> 33
 <212> PRT

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<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 606

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
20 25 30

Gly

<210> 607

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 607

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 608

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 608

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 609

<211> 34

<212> PRT

<213> Artificial Sequence

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<220>

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<400> 609

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 610

<211> 34

<212> PRT

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<220>

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<400> 610

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 611

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 611

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 612

<211> 34

<212> PRT

<213> Artificial Sequence

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<400> 612

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 613

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 613

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 614

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

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<400> 614

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Phe Gly

<210> 615

<211> 34

<212> PRT

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<400> 615

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 616
<211> 34
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<400> 616

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 617
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<400> 617

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 618
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<212> PRT
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<400> 618

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
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1

5

10

15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 619
 <211> 34
 <212> PRT
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<400> 619

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 620
 <211> 34
 <212> PRT
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<220>
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<400> 620

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 621
 <211> 34
 <212> PRT
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<220>
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<400> 621

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

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Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Arg Gly

<210> 622
<211> 35
<212> PRT
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<220>
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<400> 622

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 623
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 623

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 624
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 624

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

<210> 625
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 625

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 626
<211> 35
<212> PRT
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<220>
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<400> 626

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 627
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 627

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

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Arg Phe Gly
35

<210> 628
<211> 35
<212> PRT
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<400> 628

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 629
<211> 35
<212> PRT
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<400> 629

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 630
<211> 35
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<400> 630

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly

35

<210> 631
 <211> 35
 <212> PRT
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<220>
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<400> 631

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 632
 <211> 35
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<400> 632

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 633
 <211> 35
 <212> PRT
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<400> 633

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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<210> 634
 <211> 35
 <212> PRT
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<220>
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<400> 634

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 635
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<400> 635

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 636
 <211> 35
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<400> 636

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

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<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

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<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 639
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<220>
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<400> 639

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 640
 <211> 36
 <212> PRT

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 641

<211> 36

<212> PRT

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<220>

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<400> 641

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Phe Arg Gly
35

<210> 642

<211> 36

<212> PRT

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<220>

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<400> 642

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 643

<211> 36

<212> PRT

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<220>

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<400> 643

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 644

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<212> PRT

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<220>

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<400> 644

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Phe Gly
35

<210> 645

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<400> 645

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Tyr Gly
35

<210> 646

<211> 36

<212> PRT

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496416_PCT_ST25

<400> 646

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 647

<211> 36

<212> PRT

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<400> 647

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 648

<211> 36

<212> PRT

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 649

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 650
<211> 36
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<400> 650

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

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<211> 36
<212> PRT
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<400> 651

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
35

<210> 652
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<212> PRT
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<400> 652

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn

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1	5	10	15
Asn	Asn	Asn	Gly
		20	Leu
	Pro	Trp	Ile
		25	Leu
			Leu
			Arg
			Trp
			Leu
			Phe
			30
			Phe
			Arg

Gly

<210> 653
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Gly	Leu	Ala	Arg	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Arg	Phe	Gly	Asp	Asn
1				5					10					15	

Asn	Asn	Asn	Gly	Leu	Ala	Arg	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Phe	Arg
			20					25						30	

Gly

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Gly	Leu	Ala	Arg	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Arg	Phe	Gly	Asp	Asn
1				5					10					15	

Asn	Asn	Asn	Gly	Leu	Ala	Arg	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Arg	Phe
			20					25					30		

Gly

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Gly	Leu	Ala	Arg	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Arg	Phe	Gly	Asp	Asn
1				5					10					15	

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Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 656
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 <212> PRT
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<400> 656

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
 20 25 30

Gly

<210> 657
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
 20 25 30

Gly

<210> 658
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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 658

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe

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Gly

<210> 659
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<400> 659

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1 5 10 15

Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

<210> 660
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<400> 660

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
20 25 30

Gly

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<400> 661

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 662
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Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
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Gly

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Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

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Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

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 20 25 30

Gly

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 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 666

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
 20 25 30

Gly

<210> 667
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 667

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

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<210> 668
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 668

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 669
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 669

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 670
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 670

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 671

496416_PCT_ST25

<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 671

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 672
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 672

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 673
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 673

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 674
<211> 34
<212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 674

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Phe Gly

<210> 675

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 675

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 676

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 676

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 677

<211> 34

<212> PRT

<213> Artificial Sequence

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<220>

<223> Antimicrobial peptide sequence

<400> 677

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 678

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 678

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 679

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 679

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 680

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 680

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 681

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 681

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Arg Gly

<210> 682

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 682

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 683

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 683

496416_PCT_ST25

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 684
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 684

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 685
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 685

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 686
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 686

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn

1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210>	687
<211>	35
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 687

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210>	688
<211>	35
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 688

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210>	689
<211>	35
<212>	PRT
<213>	Artificial Sequence

<220>
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<400> 689

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

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Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 690
<211> 35
<212> PRT
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<220>
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<400> 690

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 691
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 691

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 692
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 692

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
35

<210> 693
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 693

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 694
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 694

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 695
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 695

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 696
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 696

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 697
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 697

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 698
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 698

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly

35

<210> 699
 <211> 36
 <212> PRT
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<220>
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<400> 699

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 700
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 700

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 701
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 701

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Phe Arg Gly
 35

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<210> 702
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 702

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 703
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 703

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 704
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 704

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Phe Gly
 35

<210> 705

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<211> 36
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 705

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Tyr Gly
 35

<210> 706
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 706

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 707
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 707

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 708
 <211> 36
 <212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 708

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 709

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 709

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 710

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 710

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 711

<211> 36

<212> PRT

<213> Artificial Sequence

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<220>

<223> Antimicrobial peptide sequence

<400> 711

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
35

<210> 712

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 712

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 713

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 713

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 714

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 714

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 715

<211> 35

<212> PRT

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<220>

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<400> 715

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 716

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 716

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 717

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 717

496416_PCT_ST25

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 718
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 718

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 719
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 719

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 720
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 720

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn

1

5

10

15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 721
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 721

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 722
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 722

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 723
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 723

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

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Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 724
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 724

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 725
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 725

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 726
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 726

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Arg Gly
35

<210> 727
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 727

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 728
<211> 35
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 728

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 729
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 729

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 730
<211> 35
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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

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<400> 732

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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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 1 5 10 15

Asn Gly Asn Gly Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
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 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 737
 <211> 35
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<400> 737

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 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 738
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Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 741
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<220>
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<400> 741

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 742
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 744

<211> 35

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 746

<211> 35

<212> PRT

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 747

<211> 35

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<400> 747

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 748

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 749

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 750

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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<212> PRT
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<400> 754

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
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1

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15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 755
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 756
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<400> 756

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 757
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

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Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210>	758
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<400> 758

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210>	759
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1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

<210>	760
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

<210> 761
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<220>
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<400> 761

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 762
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<220>
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<400> 762

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 763
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<212> PRT
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<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

35

<210> 767
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<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 768
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<400> 768

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 769
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 <212> PRT
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<220>
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<400> 769

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 770
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<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 771
 <211> 35
 <212> PRT
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<400> 771

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 772
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 <212> PRT
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<400> 772

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 773

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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<220>
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<400> 775

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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<220>

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 777

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 778

<211> 35

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<400> 778

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 779

<211> 35

<212> PRT

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 780

<211> 35

<212> PRT

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 781

<211> 35

<212> PRT

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<400> 781

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 782

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496416_PCT_ST25

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 783

<211> 35

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<400> 783

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 784

<211> 35

<212> PRT

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 785

<211> 35

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 786
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 787
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210>	789
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20 25 30

Arg Phe Gly
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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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1 5 10 15

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Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210>	793
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210>	794
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Phe Gly
35

<210> 795
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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Tyr Gly
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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Arg Phe Gly

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Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
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<210> 802
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Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 806
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 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
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<210> 807

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1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210> 808
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1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 809
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1 5 10 15

Gly His Gly His Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
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Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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<210> 811

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1 5 10 15

Gly His Gly His Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 812

<211> 35

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1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<211> 35

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1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<210> 814

<211> 35

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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<210> 816

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Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Arg Gly
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<210> 817

<211> 35

<212> PRT

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<210> 818

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1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<210> 819

<211> 35

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1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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<210> 820
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His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 822
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1 5 10 15
His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210>	824
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1 5 10 15

His Gly His Gly His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Phe Gly
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1 5 10 15

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His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 826
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1 5 10 15

His Gly His Gly His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<400> 828

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
35

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<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 830
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1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 831
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<400> 831

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 832
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<400> 833

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 834
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1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly

35

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 836
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<400> 836

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 837
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<400> 837

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 839
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<220>
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<400> 839

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
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<210> 840
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 <212> PRT
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<400> 840

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
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<210> 841

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1 5 10 15

Asn His Asn His Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 842
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<212> PRT
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<400> 842

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 843
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1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 844
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1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 845

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1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 846

<211> 35

<212> PRT

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<400> 846

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1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 847

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1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 848

<211> 35

<212> PRT

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1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 849

<211> 35

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<400> 849

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1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 850

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1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 852

<211> 35

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<400> 852

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 853

<211> 35

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<400> 853

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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 854
<211> 35
<212> PRT
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<400> 854

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1 5 10 15

His Asn His Asn His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 855
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<400> 855

Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 856
<211> 35
<212> PRT
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Phe Arg Gly
35

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His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<220>
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20 25 30

Phe Arg Gly
35

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

Arg Phe Gly
35

<210> 860
<211> 35
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<400> 860

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1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 861
<211> 35
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Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 862
<211> 33
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<220>
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<400> 862

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
Page 275

Gly

<210> 863
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 863

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 864
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 864

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 865
 <211> 33
 <212> PRT
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<220>
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<400> 865

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 866
 <211> 33
 <212> PRT
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<220>
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<400> 866

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
 20 25 30

Gly

<210> 867
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<400> 867

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
 20 25 30

Gly

<210> 868
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<220>
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<400> 868

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
 20 25 30

Gly

<210> 869
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<400> 869

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
 20 25 30

Gly

<210> 870
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<220>
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<400> 870

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
 20 25 30

Gly

<210> 871
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 871

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

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<210> 872
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 872

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 873
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 873

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 874
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 874

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 875

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<211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 875

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 876
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 876

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
 20 25 30

Gly

<210> 877
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 877

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 878
 <211> 34
 <212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 878

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 879

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 879

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 880

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 880

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 881

<211> 34

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

<223> Antimicrobial peptide sequence

<400> 881

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 882

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 882

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 883

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 883

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 884

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 884

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Phe Gly

<210> 885

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 885

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 886

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 886

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 887

<211> 34

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 887

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 888
<211> 34
<212> PRT
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<400> 888

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 889
<211> 34
<212> PRT
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<220>
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<400> 889

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 890
<211> 34
<212> PRT
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<220>
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<400> 890

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1

5

10

15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 891
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 891

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Arg Gly

<210> 892
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 892

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 893
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 893

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

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Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 894
<211> 35
<212> PRT
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<220>
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<400> 894

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 895
<211> 35
<212> PRT
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<400> 895

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 896
<211> 35
<212> PRT
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<220>
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<400> 896

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Phe Arg Gly
35

<210> 897
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 897

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 898
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 898

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 899
<211> 35
<212> PRT
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<220>
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<400> 899

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 900
<211> 35
<212> PRT
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<400> 900

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 901
<211> 35
<212> PRT
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<400> 901

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 902
<211> 35
<212> PRT
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<220>
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<400> 902

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

35

<210> 903
 <211> 35
 <212> PRT
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<220>
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<400> 903

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 904
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<400> 904

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 905
 <211> 35
 <212> PRT
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<220>
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<400> 905

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 906
 <211> 35
 <212> PRT
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<220>
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<400> 906

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 907
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<220>
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<400> 907

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 908
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 <212> PRT
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<220>
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 909

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 911
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<400> 911

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 912
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 <212> PRT

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<220>

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<400> 912

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 913

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<220>

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<400> 913

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 914

<211> 36

<212> PRT

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<220>

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<400> 914

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Phe Gly
35

<210> 915

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<400> 915

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Tyr Gly
35

<210> 916

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<212> PRT

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<400> 916

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

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<211> 36

<212> PRT

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<220>

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 918

<211> 36

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

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<400> 918

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 919

<211> 36

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<400> 919

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 920

<211> 36

<212> PRT

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<223> Antimicrobial peptide sequence

<400> 920

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 921

<211> 36

<212> PRT

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<400> 921

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
35

<210> 922
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<212> PRT
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<400> 922

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 923
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<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 923

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 924
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 924

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
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Asn	Asn	Asn	Gly
		Leu	Ala
		Arg	Ile
		Leu	Leu
		Arg	Trp
		Leu	Phe
			Arg
			Phe

Gly

<210> 925
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1				5					10					15	
Asn	Asn	Asn	Gly	Leu	Val	Arg	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Arg	Phe
			20					25					30		

Gly

<210> 926
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 <400> 926

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1				5					10					15	
Asn	Asn	Asn	Gly	Leu	Ala	Arg	Ile	Leu	Leu	Arg	Leu	Leu	Phe	Phe	Arg
			20					25					30		

Gly

<210> 927
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 <400> 927

Gly	Leu	Val	Arg	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Arg	Phe	Gly	Asp	Asn
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Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 928
<211> 33
<212> PRT
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<220>
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<400> 928

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 929
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 929

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

<210> 930
<211> 33
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<220>
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<400> 930

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr

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Gly

<210> 931
<211> 33
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<220>
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<400> 931

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 932
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 932

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 933
<211> 33
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<223> Antimicrobial peptide sequence

<400> 933

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 934
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 934

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 935
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 935

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 936
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 936

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
 20 25 30

Gly

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<210> 937
 <211> 34
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 937

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 938
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 938

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 939
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 939

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

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<210> 940
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 940

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 941
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 941

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
 20 25 30

Arg Gly

<210> 942
 <211> 34
 <212> PRT
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<220>
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<400> 942

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

<210> 943

496416_PCT_ST25

<211> 34
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<220>
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<400> 943

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 944
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
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<400> 944

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Phe Gly

<210> 945
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 945

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 946
<211> 34
<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 946

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 947

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 947

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 948

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 948

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 949

<211> 34

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 949

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 950

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

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<400> 950

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 951

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 951

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Arg Gly

<210> 952

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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496416_PCT_ST25

<400> 952

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 953

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 953

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 954

<211> 35

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 954

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 955

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 955

496416_PCT_ST25

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 956
<211> 35
<212> PRT
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<220>
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<400> 956

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 957
<211> 35
<212> PRT
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<400> 957

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 958
<211> 35
<212> PRT
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<220>
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<400> 958

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn

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1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210>	959
<211>	35
<212>	PRT
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<220>
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<400> 959

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210>	960
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<220>
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<400> 960

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210>	961
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<220>
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<400> 961

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

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Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 962
<211> 35
<212> PRT
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<220>
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<400> 962

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 963
<211> 35
<212> PRT
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<220>
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<400> 963

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 964
<211> 35
<212> PRT
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<220>
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<400> 964

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
Page 308

Arg Phe Gly
35

<210> 965
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 965

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 966
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<212> PRT
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<220>
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<400> 966

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 967
<211> 36
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 967

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

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Phe Phe Arg Gly
35

<210> 968
<211> 36
<212> PRT
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<220>
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<400> 968

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 969
<211> 36
<212> PRT
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<220>
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<400> 969

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 970
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<212> PRT
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<220>
<223> Antimicrobial peptide sequence
<400> 970

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly

35

<210> 971
 <211> 36
 <212> PRT
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<220>
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<400> 971

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 972
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 972

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 973
 <211> 36
 <212> PRT
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<220>
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<400> 973

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
 35

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<210> 974
 <211> 36
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<220>
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<400> 974

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Phe Gly
 35

<210> 975
 <211> 36
 <212> PRT
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<220>
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<400> 975

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Tyr Gly
 35

<210> 976
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 <212> PRT
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<220>
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<400> 976

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 977

496416_PCT_ST25

<211> 36
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 978
 <211> 36
 <212> PRT
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<400> 978

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 979
 <211> 36
 <212> PRT
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<400> 979

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 980
 <211> 36
 <212> PRT

<213> Artificial Sequence

<220>

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<400> 980

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 981

<211> 36

<212> PRT

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<220>

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<400> 981

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
35

<210> 982

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 982

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 983

<211> 35

<212> PRT

<213> Artificial Sequence

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<220>

<223> Antimicrobial peptide sequence

<400> 983

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 984

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 984

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 985

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 985

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 986

<211> 35

<212> PRT

<213> Artificial Sequence

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496416_PCT_ST25

<400> 986

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 987

<211> 35

<212> PRT

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<400> 987

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 988

<211> 35

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<400> 988

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 989

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 989

496416_PCT_ST25

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 990
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 990

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 991
<211> 35
<212> PRT
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
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Gly Asn Gly Asn Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 992
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<220>
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<400> 992

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
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Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 993
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

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 20 25 30

Phe Arg Gly
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<210> 994
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<400> 994

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
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Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
35

<210> 999
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<400> 999

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1001
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly

35

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
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<210> 1006
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 <212> PRT
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<220>
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 1008
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<220>
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1009
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 <212> PRT
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<220>
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<400> 1009

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1010
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<220>
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
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<210> 1012
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<220>
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 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1018

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<212> PRT

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210> 1019

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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<210> 1020

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Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Tyr Gly
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<210> 1021

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<400> 1021

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 1022

<211> 35

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 1023

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 1024
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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<210> 1026
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<220>
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Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Arg Gly
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<210> 1027

<211> 35

<212> PRT

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<220>

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<400> 1027

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1028

<211> 35

<212> PRT

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<400> 1028

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1029

<211> 35

<212> PRT

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<220>

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<400> 1029

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

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Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1030
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<400> 1030

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1031
 <211> 35
 <212> PRT
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<220>
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<400> 1031

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1032
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<220>
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
35

<210> 1033
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<400> 1033

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1034
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1035
<211> 35
<212> PRT
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<400> 1035

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1036
<211> 35
<212> PRT
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<220>
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<400> 1036

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1037
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<212> PRT
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<220>
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<400> 1037

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1038
<211> 35
<212> PRT
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<400> 1038

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

35

<210> 1039
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1040
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1041
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 <212> PRT
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<220>
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<400> 1041

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

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<210> 1042
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1043
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1044
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<220>
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<400> 1044

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1045

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1046
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 <212> PRT
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<220>
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<400> 1046

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1047
 <211> 35
 <212> PRT
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<220>
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<400> 1047

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1048
 <211> 35
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496416_PCT_ST25

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<400> 1048

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1049

<211> 35

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<400> 1049

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1050

<211> 35

<212> PRT

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<400> 1050

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1051

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1052

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1053

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<400> 1053

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1054

<211> 35

<212> PRT

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<400> 1054

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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1055

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<400> 1055

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1056

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1056

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
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Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1057

<211> 35

<212> PRT

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<400> 1057

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1058
<211> 35
<212> PRT
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<400> 1058

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1059
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1059

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1060
<211> 35
<212> PRT
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<220>
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<400> 1060

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn

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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210>	1061
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<220>
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210>	1062
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<220>
<223>  Antimicrobial peptide sequence
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210>	1063
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

496416_PCT_ST25

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

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1 5 10 15

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20 25 30

Arg Phe Gly
35

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<400> 1065

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

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<400> 1066

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
35

<210> 1067
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1067

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1068
<211> 35
<212> PRT
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<220>
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<400> 1068

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1069
<211> 35
<212> PRT
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<220>
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<400> 1069

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1070
<211> 35
<212> PRT
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<220>
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<400> 1070

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1071
<211> 35
<212> PRT
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<400> 1071

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1072
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<220>
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1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

35

<210> 1073
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<400> 1073

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1074
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<400> 1074

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1075
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 <212> PRT
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<220>
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<400> 1075

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 1076
 <211> 35
 <212> PRT
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<220>
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<400> 1076

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1077
 <211> 35
 <212> PRT
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<400> 1077

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1078
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<220>
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<400> 1078

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1079

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<211> 35
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<400> 1079

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 1080
 <211> 35
 <212> PRT
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<220>
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<400> 1080

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 1081
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1081

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1082
 <211> 35
 <212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1082

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1083

<211> 35

<212> PRT

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<400> 1083

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1084

<211> 35

<212> PRT

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<223> Antimicrobial peptide sequence

<400> 1084

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1085

<211> 35

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1086

<211> 35

<212> PRT

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<400> 1086

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1087

<211> 35

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<400> 1087

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1088

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 1088

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1089

<211> 35

<212> PRT

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<400> 1089

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1090

<211> 35

<212> PRT

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<223> Antimicrobial peptide sequence

<400> 1090

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1091

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 1091

496416_PCT_ST25

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1092
<211> 35
<212> PRT
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<220>
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<400> 1092

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1093
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1093

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1094
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1094

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
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1

5

10

15

His Gly His Gly His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 1095

<211> 35

<212> PRT

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<400> 1095

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 1096

<211> 35

<212> PRT

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1097

<211> 35

<212> PRT

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<400> 1097

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

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His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 1098
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1100
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<400> 1100

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

<210> 1101
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1101

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1102
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1102

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1103
<211> 35
<212> PRT
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<220>
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<400> 1103

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1104
<211> 35
<212> PRT
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<220>
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<400> 1104

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1105
<211> 35
<212> PRT
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<220>
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<400> 1105

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1106
<211> 35
<212> PRT
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<220>
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<400> 1106

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly

35

<210> 1107
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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1107

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1108
 <211> 35
 <212> PRT
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<220>
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<400> 1108

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1109
 <211> 35
 <212> PRT
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<220>
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<400> 1109

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

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<210> 1110
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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1110

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 1111
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1111

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1112
 <211> 35
 <212> PRT
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<220>
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<400> 1112

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1113

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<211> 35
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<220>
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<400> 1113

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1114
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1114

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1115
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 <212> PRT
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<220>
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<400> 1115

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1116
 <211> 35
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<400> 1116

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1117

<211> 35

<212> PRT

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<400> 1117

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1118

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1118

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1119

<211> 35

<212> PRT

<213> Artificial Sequence

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<220>

<223> Antimicrobial peptide sequence

<400> 1119

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1120

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1120

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1121

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1121

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
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His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

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496416_PCT_ST25

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
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His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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20 25 30

Phe Arg Gly
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His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

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1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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496416_PCT_ST25

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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 20 25 30

Gly

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Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
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Gly

<210> 1135
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 20 25 30

Gly

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Gly

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 20 25 30

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<210> 1153

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1 5 10 15

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Phe Gly

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496416_PCT_ST25

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20 25 30

Arg Gly

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Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
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Arg Gly

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
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Phe Gly

<210> 1161
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<220>
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Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Arg Gly

<210> 1162
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<212> PRT
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<220>
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<400> 1162

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
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15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 1163

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 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Arg Phe Gly
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Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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20 25 30

Arg Phe Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
Page 374

Arg Phe Gly
35

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Arg Phe Gly
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20 25 30

Arg Tyr Gly
35

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20 25 30

Phe Arg Gly
35

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Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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20 25 30

Phe Arg Gly
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Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly

35

<210> 1175
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<220>
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Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 1177
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 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
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496416_PCT_ST25

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Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

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Phe Arg Phe Gly
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 20 25 30

Phe Arg Phe Gly
 35

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496416_PCT_ST25

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Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Phe Arg Gly
 35

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<220>
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Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
 35

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<220>
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Phe Arg Phe Gly
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Leu Arg Phe Gly
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Leu Arg Tyr Gly
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20 25 30

Phe Phe Arg Gly
35

<210> 1187

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20 25 30

Phe Phe Arg Gly
35

<210> 1188

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1188

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 1189

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1189

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 1190

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1190

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 1191

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1191

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
35

<210> 1192

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1192

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 1193

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1193

496416_PCT_ST25

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 1194
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1194

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 1195
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1195

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 1196
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1196

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
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1	5	10	15
Asn	Asn	Asn	Gly
		Leu	Ala
		Arg	Ile
		Leu	Leu
		Arg	Leu
		Leu	Leu
		Phe	Phe
		Arg	

Gly

<210> 1197
 <211> 33
 <212> PRT
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<220>
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 <400> 1197

Gly	Leu	Ala	Arg	Ile	Leu	Leu	Arg	Leu	Leu	Phe	Phe	Arg	Gly	Asp	Asn
1				5					10					15	

Asn	Asn	Asn	Gly	Leu	Ala	Arg	Ile	Leu	Leu	Arg	Leu	Leu	Phe	Arg	Phe
			20					25					30		

Gly

<210> 1198
 <211> 33
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<220>
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 <400> 1198

Gly	Leu	Ala	Arg	Ile	Leu	Leu	Arg	Leu	Leu	Phe	Phe	Arg	Gly	Asp	Asn
1				5					10					15	

Asn	Asn	Asn	Gly	Leu	Val	Arg	Ile	Leu	Leu	Arg	Leu	Leu	Phe	Arg	Phe
			20					25					30		

Gly

<210> 1199
 <211> 33
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 <400> 1199

Gly	Leu	Ala	Arg	Ile	Leu	Leu	Arg	Leu	Leu	Phe	Phe	Arg	Gly	Asp	Asn
1				5					10					15	

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Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
 20 25 30

Gly

<210> 1200
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1200

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
 20 25 30

Gly

<210> 1201
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1201

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 1202
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1202

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
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Gly

<210> 1203
 <211> 33
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 1203

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 1204
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1204

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 1205
 <211> 33
 <212> PRT
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<220>
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<400> 1205

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 1206
 <211> 33
 <212> PRT
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<220>
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<400> 1206

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
 20 25 30

Gly

<210> 1207
 <211> 34
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 1207

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 1208
 <211> 34
 <212> PRT
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<220>
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<400> 1208

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 1209
 <211> 34
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 1209

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 1210
 <211> 34
 <212> PRT
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<220>
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<400> 1210

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 1211
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1211

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
 20 25 30

Arg Gly

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<210> 1212
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1212

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

<210> 1213
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1213

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

<210> 1214
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1214

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Phe Gly

<210> 1215

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<211> 34
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 1215

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 1216
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1216

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 1217
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1217

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 1218
<211> 34
<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1218

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 1219

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1219

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 1220

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1220

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 1221

<211> 34

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

<223> Antimicrobial peptide sequence

<400> 1221

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Arg Gly

<210> 1222

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1222

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1223

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1223

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1224

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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496416_PCT_ST25

<400> 1224

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1225

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1225

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1226

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1226

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1227

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1227

496416_PCT_ST25

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1228
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1228

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1229
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1229

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1230
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1230

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn

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1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210>	1231
<211>	35
<212>	PRT
<213>	Artificial sequence

<220>
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<400> 1231

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210>	1232
<211>	35
<212>	PRT
<213>	Artificial sequence

<220>
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<400> 1232

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210>	1233
<211>	35
<212>	PRT
<213>	Artificial sequence

<220>
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 $\langle 400 \rangle$ 1233

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

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Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1234
<211> 35
<212> PRT
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<220>
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<400> 1234

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1235
<211> 35
<212> PRT
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<400> 1235

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1236
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1236

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Arg Gly
35

<210> 1237
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1237

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 1238
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1238

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 1239
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1239

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

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Phe Arg Phe Gly
35

<210> 1240
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 1240

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 1241
<211> 36
<212> PRT
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<220>
<223> Antimicrobial peptide sequence
<400> 1241

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Phe Arg Gly
35

<210> 1242
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 1242

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly

35

<210> 1243
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1243

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 1244
 <211> 36
 <212> PRT
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<220>
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<400> 1244

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Phe Gly
 35

<210> 1245
 <211> 36
 <212> PRT
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<220>
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<400> 1245

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Tyr Gly
 35

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<210> 1246
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1246

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 1247
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1247

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 1248
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1248

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 1249

496416_PCT_ST25

<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1249

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 1250
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1250

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 1251
<211> 36
<212> PRT
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<400> 1251

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
35

<210> 1252
<211> 35
<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1252

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 1253

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 1253

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1254

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1254

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1255

<211> 35

<212> PRT

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<400> 1255

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1256

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1256

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1257

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1257

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1258

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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496416_PCT_ST25

<400> 1258

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1259

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1259

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1260

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1260

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1261

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 1261

496416_PCT_ST25

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1262
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1262

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1263
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1263

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1264
<211> 35
<212> PRT
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<220>
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<400> 1264

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn

1

5

10

15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1265

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1265

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1266

<211> 35

<212> PRT

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<400> 1266

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 1267

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1267

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

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Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 1268
<211> 35
<212> PRT
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<220>
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<400> 1268

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1269
<211> 35
<212> PRT
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<220>
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<400> 1269

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1270
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1270

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

<210> 1271
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1271

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1272
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1272

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1273
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1273

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1274
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1274

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1275
<211> 35
<212> PRT
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<220>
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<400> 1275

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1276
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 1276

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

35

<210> 1277
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1277

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1278
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1278

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1279
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1279

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 1280
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1280

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1281
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1281

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 1282
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1282

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly ser Gly ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1283

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<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1283

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1284
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1284

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1285
<211> 35
<212> PRT
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<220>
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<400> 1285

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1286
<211> 35
<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1286

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1287

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1287

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1288

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1288

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1289

<211> 35

<212> PRT

<213> Artificial Sequence

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<220>

<223> Antimicrobial peptide sequence

<400> 1289

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1290

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1290

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1291

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1291

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1292

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 1292

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1293

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1293

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1294

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1294

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1295

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1295

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1296
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1296

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1297
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1297

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1298
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1298

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly

1

5

10

15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1299
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1299

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1300
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1300

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1301
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1301

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

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Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1302
<211> 35
<212> PRT
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<220>
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<400> 1302

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1303
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1303

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1304
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1304

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Phe Gly
35

<210> 1305
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1305

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1306
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1306

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1307
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1307

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1308
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1308

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1309
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1309

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1310
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1310

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly

35

<210> 1311
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1311

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 1312
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1312

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1313
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1313

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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<210> 1314
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1314

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1315
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1315

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1316
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1316

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
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Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Phe Arg Gly
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<400> 1317

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

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Arg Phe Gly
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Arg Phe Gly
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<400> 1320

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Tyr Gly
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<210> 1321

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
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Asn Ser Asn Ser Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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<210> 1326

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Arg Arg Gly
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Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
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Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

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<400> 1331

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
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Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Phe Arg Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn

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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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Ser Asn Ser Asn Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu

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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Tyr Gly
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Ser Asn Ser Asn Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
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Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<210> 1339
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<400> 1339

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Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
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Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly

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 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
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<210> 1347
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<400> 1347

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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<210> 1349
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Arg Phe Gly
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Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

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Gly His Gly His Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1358

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 1359

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<212> PRT

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<400> 1359

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1360

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 1361

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<400> 1361

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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<210> 1362

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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1 5 10 15

His Gly His Gly His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1365
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<400> 1365

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

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10

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His Gly His Gly His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1369

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

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His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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 1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1371
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<400> 1371

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 1372
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<400> 1372

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
35

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<220>
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<400> 1373

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1374
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<220>
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<400> 1374

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1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1375
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<400> 1375

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 1376
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1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1378
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly

35

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<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Asn His Asn His Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
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<210> 1380
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 1381
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<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 1382
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<220>
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<400> 1382

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1383
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 1387
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1388
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1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1389

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1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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<210> 1392

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20 25 30

Arg Phe Gly
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20 25 30

Arg Phe Gly
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20 25 30

Arg Phe Gly
35

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His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 1396

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His Asn His Asn His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
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His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 1399
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His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1400
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1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210>	1401
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<220>
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<400> 1401

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210>	1402
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<400> 1402

Gly 1 Leu 2 Ala 3 Arg 4 Ile 5 Leu 6 Leu 7 Arg 8 Leu 9 Leu 10 Phe 11 Arg 12 Phe 13 Gly 14 Asp 15 Gly 16

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
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Gly

<210>	1403
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

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Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 1404
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<220>
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Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 1405
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
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Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 1406
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<212> PRT
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<220>
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<400> 1406

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
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20 496416_PCT_ST25 30
25

Gly

<210> 1407
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1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 1408
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<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 1409
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<220>
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<400> 1409

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

<210> 1410
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 <212> PRT
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<220>
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<400> 1410

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
 20 25 30

Gly

<210> 1411
 <211> 33
 <212> PRT
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<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 1412
 <211> 33
 <212> PRT
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<220>
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<400> 1412

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 1413
 <211> 33
 <212> PRT
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 1414
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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 1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 1415
 <211> 33
 <212> PRT
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<220>
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<400> 1415

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

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<210> 1416
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
 20 25 30

Gly

<210> 1417
 <211> 34
 <212> PRT
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<220>
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<400> 1417

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 1418
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1418

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 1419

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<400> 1419

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 1420
 <211> 34
 <212> PRT
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<220>
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<400> 1420

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 1421
 <211> 34
 <212> PRT
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<220>
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<400> 1421

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
 20 25 30

Arg Gly

<210> 1422
 <211> 34
 <212> PRT

<213> Artificial Sequence

<220>

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<400> 1422

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 1423

<211> 34

<212> PRT

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<400> 1423

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 1424

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1424

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Phe Gly

<210> 1425

<211> 34

<212> PRT

<213> Artificial Sequence

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<220>

<223> Antimicrobial peptide sequence

<400> 1425

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 1426

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1426

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 1427

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1427

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 1428

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1428

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 1429

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1429

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 1430

<211> 34

<212> PRT

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<220>

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<400> 1430

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 1431

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1431

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Arg Gly

<210> 1432
<211> 35
<212> PRT
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<400> 1432

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1433
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<212> PRT
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<220>
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<400> 1433

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1434
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1434

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
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1

5

10

15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1435

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1435

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1436

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 1436

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1437

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1437

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

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Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1438
 <211> 35
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<220>
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<400> 1438

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1439
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 <212> PRT
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<220>
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<400> 1439

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 1440
 <211> 35
 <212> PRT
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<220>
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<400> 1440

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Tyr Gly
35

<210> 1441
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1441

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1442
<211> 35
<212> PRT
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<220>
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<400> 1442

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1443
<211> 35
<212> PRT
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<220>
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<400> 1443

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1444
<211> 35
<212> PRT
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<220>
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<400> 1444

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1445
<211> 35
<212> PRT
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<220>
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<400> 1445

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1446
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1446

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly

35

<210> 1447
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1447

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
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<210> 1448
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<400> 1448

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
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Phe Phe Arg Gly
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<210> 1449
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 <212> PRT
 <213> Artificial Sequence

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 <223> Antimicrobial peptide sequence

<400> 1449

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
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<210> 1450
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<400> 1450

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
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<210> 1451
 <211> 36
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 <213> Artificial Sequence

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<400> 1451

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Phe Arg Gly
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<210> 1452
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 <212> PRT
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
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<210> 1453

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<211> 36
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<400> 1453

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
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<210> 1454
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<400> 1454

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Phe Gly
 35

<210> 1455
 <211> 36
 <212> PRT
 <213> Artificial Sequence

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<400> 1455

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Tyr Gly
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<210> 1456
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<400> 1456

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
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<210> 1457

<211> 36

<212> PRT

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<400> 1457

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
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<210> 1458

<211> 36

<212> PRT

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<400> 1458

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
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<210> 1459

<211> 36

<212> PRT

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<220>

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<400> 1459

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
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<210> 1460

<211> 36

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 1460

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
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<210> 1461

<211> 36

<212> PRT

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<223> Antimicrobial peptide sequence

<400> 1461

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
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<210> 1462

<211> 33

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<213> Artificial Sequence

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496416_PCT_ST25

<400> 1462

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 1463

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1463

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 1464

<211> 33

<212> PRT

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<400> 1464

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 1465

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1465

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 1466
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1466

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
20 25 30

Gly

<210> 1467
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1467

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 1468
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1468

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn

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1	5	10	15
Asn	Asn	Asn	Gly
			20
Leu	Val	Arg	Ile
			25
Leu	Leu	Arg	Leu
			30
Phe	Arg	Phe	

Gly

<210> 1469
 <211> 33
 <212> PRT
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Gly	Leu	Ala	Arg	Ile	Leu	Leu	Arg	Leu	Leu	Phe	Arg	Phe	Gly	Asp	Asn
1				5					10					15	
Asn	Asn	Asn	Ser	Leu	Val	Arg	Ile	Leu	Leu	Arg	Leu	Leu	Leu	Arg	Phe
			20					25					30		

Gly

<210> 1470
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 <400> 1470

Gly	Leu	Ala	Arg	Ile	Leu	Leu	Arg	Leu	Leu	Phe	Arg	Phe	Gly	Asp	Asn
1				5					10					15	
Asn	Asn	Asn	Gly	Leu	Val	Arg	Ile	Leu	Leu	Arg	Leu	Leu	Leu	Arg	Tyr
			20					25					30		

Gly

<210> 1471
 <211> 33
 <212> PRT
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 <220>
 <223> Antimicrobial peptide sequence
 <400> 1471

Gly	Leu	Ala	Arg	Ile	Leu	Leu	Arg	Leu	Leu	Phe	Arg	Phe	Gly	Asp	Asn
1				5					10					15	

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Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 1472
<211> 33
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 1472

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 1473
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1473

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 1474
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1474

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe

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Gly

<210> 1475
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1475

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 1476
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1476

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
20 25 30

Gly

<210> 1477
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<212> PRT
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<400> 1477

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 1478
 <211> 34
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 1478

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 1479
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 <212> PRT
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<220>
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<400> 1479

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 1480
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1480

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

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<210> 1481
 <211> 34
 <212> PRT
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<220>
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<400> 1481

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
 20 25 30

Arg Gly

<210> 1482
 <211> 34
 <212> PRT
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<220>
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<400> 1482

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

<210> 1483
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 <212> PRT
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<220>
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<400> 1483

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

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<210> 1484
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<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Phe Gly

<210> 1485
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<220>
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<400> 1485

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Tyr Gly

<210> 1486
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 1487

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<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 1488
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<400> 1488

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 1489
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<212> PRT
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<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 1490
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496416_PCT_ST25

<213> Artificial Sequence

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<400> 1490

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 1491

<211> 34

<212> PRT

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<220>

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Arg Gly

<210> 1492

<211> 35

<212> PRT

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<400> 1492

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1493

<211> 35

<212> PRT

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496416_PCT_ST25

<220>

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<400> 1493

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1494

<211> 35

<212> PRT

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<223> Antimicrobial peptide sequence

<400> 1494

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1495

<211> 35

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<400> 1495

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1496

<211> 35

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496416_PCT_ST25

<400> 1496

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1497

<211> 35

<212> PRT

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<400> 1497

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1498

<211> 35

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<400> 1498

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1499

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1499

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1500
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<400> 1500

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1501
<211> 35
<212> PRT
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<220>
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<400> 1501

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1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1502
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1502

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
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1 5 10 15

Phe Arg Gly
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<220>  
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Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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<220>
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Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 1506

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1506

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1507

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1507

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 1508

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1508

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
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20

25

30

Phe Phe Arg Gly
35

<210> 1509
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1509

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1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 1510
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<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 1510

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 1511
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<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 1511

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1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

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Phe Phe Arg Gly
35

<210> 1512
<211> 36
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 1512

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

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<400> 1513

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
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Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
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<400> 1514

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Phe Gly

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<210> 1515
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<400> 1515

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
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Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Tyr Gly
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<210> 1516
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<400> 1516

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
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<210> 1517
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<400> 1517

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
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<210> 1518
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<400> 1518

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
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<210> 1519
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<400> 1519

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
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<210> 1520
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<400> 1520

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
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<210> 1522
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<400> 1522

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 1523
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
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Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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<400> 1525

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
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Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 1526

<211> 35

<212> PRT

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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<210> 1527

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210> 1528

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210> 1529

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Phe Gly
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 1531

<211> 35

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<400> 1531

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 1532

<211> 35

<212> PRT

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<223> Antimicrobial peptide sequence

<400> 1532

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<400> 1533

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<400> 1534

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1535
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Arg Gly
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<210> 1537

<211> 35

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<400> 1537

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1538

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<212> PRT

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 1539

<211> 35

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<400> 1539

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

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Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 1540
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<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1541
<211> 35
<212> PRT
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<220>
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<400> 1541

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1542
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<400> 1542

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
35

<210> 1543
<211> 35
<212> PRT
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<220>
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<400> 1543

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1544
<211> 35
<212> PRT
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<400> 1544

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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<210> 1545
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<212> PRT
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<220>
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<400> 1545

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 1546
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<400> 1546

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1547
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<400> 1547

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1548
<211> 35
<212> PRT
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<220>
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<400> 1548

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

35

<210> 1549
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1550
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<400> 1550

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1551
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<220>
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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

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<210> 1552
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<400> 1552

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1553
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<400> 1553

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1554
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<400> 1554

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1555

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<211> 35
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<400> 1555

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1556
<211> 35
<212> PRT
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<220>
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<400> 1556

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1557
<211> 35
<212> PRT
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<220>
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<400> 1557

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1558
<211> 35
<212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1558

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1559

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 1559

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1560

<211> 35

<212> PRT

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<400> 1560

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1561

<211> 35

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<220>

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<400> 1561

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1562

<211> 35

<212> PRT

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<400> 1562

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1563

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 1563

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1564

<211> 35

<212> PRT

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496416_PCT_ST25

<400> 1564

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1565

<211> 35

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<400> 1565

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1566

<211> 35

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 1566

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1567

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 1567

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Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1568
<211> 35
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 1568

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1569
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1569

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1570
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1570

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
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Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1571

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1571

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1572

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1572

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1573

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1573

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

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Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1574
<211> 35
<212> PRT
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<220>
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<400> 1574

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1575
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1575

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1576
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1576

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
35

<210> 1577
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1577

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1578
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1578

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1579
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1579

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1580
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1580

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1581
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1581

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1582
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1582

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

35

<210> 1583
 <211> 35
 <212> PRT
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<220>
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<400> 1583

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1584
 <211> 35
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<220>
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<400> 1584

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1585
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1585

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 1586
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1586

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1587
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1587

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1588
 <211> 35
 <212> PRT
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<220>
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<400> 1588

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1589

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<211> 35
 <212> PRT
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<220>
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<400> 1589

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 1590
 <211> 35
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 1590

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 1591
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1591

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1592
 <211> 35
 <212> PRT

<213> Artificial Sequence

<220>

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<400> 1592

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1593

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1593

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1594

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1594

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1595

<211> 35

<212> PRT

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<220>

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<400> 1595

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1596

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1596

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1597

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1597

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1598

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 1598

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1599

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1599

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1600

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 1600

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1601

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1601

496416_PCT_ST25

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1602
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1602

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1603
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1603

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1604
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1604

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn

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1 5 10 15

Ser Asn Ser Asn Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210>	1605
<211>	35
<212>	PRT
<213>	Artificial sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1605

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210>	1606
<211>	35
<212>	PRT
<213>	Artificial sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1606

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210>	1607
<211>	35
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1607

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1608
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1608

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1609
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1609

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1610
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1610

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

<210> 1611
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1611

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1612
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1612

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1613
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1613

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1614
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1614

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1615
<211> 35
<212> PRT
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<220>
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<400> 1615

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1616
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1616

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly

35

<210> 1617
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1617

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1618
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1618

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1619
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1619

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

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<210> 1620
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1620

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 1621
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1621

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1622
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1622

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1623

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<211> 35
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<220>
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<400> 1623

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1624
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1624

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1625
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1625

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1626
<211> 35
<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1626

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1627

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 1627

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1628

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1628

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1629

<211> 35

<212> PRT

<213> Artificial Sequence

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<220>

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<400> 1629

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1630

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 1630

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1631

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 1631

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1632

<211> 35

<212> PRT

<213> Artificial Sequence

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496416_PCT_ST25

<400> 1632

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1633

<211> 35

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<400> 1633

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1634

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 1634

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1635

<211> 35

<212> PRT

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<400> 1635

496416_PCT_ST25

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1636
<211> 35
<212> PRT
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<220>
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<400> 1636

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1637
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1637

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1638
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1638

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
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5

10

15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1639
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1639

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1640
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1640

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1641
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1641

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

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His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 1642
 <211> 35
 <212> PRT
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<220>
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<400> 1642

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1643
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1643

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1644
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1644

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 Page 528

Arg Phe Gly
35

<210> 1645
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1645

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1646
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1646

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1647
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1647

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1648
<211> 35
<212> PRT
<213> Artificial Sequence

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<400> 1648

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1649
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1649

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1650
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1650

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly

35

<210> 1651
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1651

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1652
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1652

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1653
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1653

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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<210> 1654
 <211> 35
 <212> PRT
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<220>
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<400> 1654

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1655
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1655

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1656
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1656

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 1657

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<211> 35
 <212> PRT
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<400> 1657

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1658
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1658

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1659
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1659

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1660
 <211> 35
 <212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1660

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1661

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1661

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1662

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1662

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1663

<211> 35

<212> PRT

<213> Artificial Sequence

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<220>

<223> Antimicrobial peptide sequence

<400> 1663

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1664

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1664

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1665

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1665

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1666

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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496416_PCT_ST25

<400> 1666

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1667

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1667

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1668

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1668

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1669

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1669

496416_PCT_ST25

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1670
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1670

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1671
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1671

Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1672
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1672

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly

1

5

10

15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 1673

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1673

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 1674

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1674

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 1675

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1675

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

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Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 1676
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1676

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
 20 25 30

Gly

<210> 1677
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1677

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
 20 25 30

Gly

<210> 1678
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1678

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
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20 496416_PCT_ST25 30
25

Gly

<210> 1679
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1679

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

<210> 1680
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1680

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
20 25 30

Gly

<210> 1681
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1681

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 1682
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1682

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 1683
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1683

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 1684
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1684

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

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<210> 1685
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1685

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 1686
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1686

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
 20 25 30

Gly

<210> 1687
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1687

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

496416_PCT_ST25

<210> 1688
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1688

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 1689
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1689

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 1690
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1690

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 1691

496416_PCT_ST25

<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1691

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 1692
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1692

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 1693
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1693

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 1694
<211> 34
<212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1694

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Phe Gly

<210> 1695

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1695

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 1696

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1696

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 1697

<211> 34

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

<223> Antimicrobial peptide sequence

<400> 1697

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 1698

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1698

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 1699

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1699

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 1700

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 1700

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 1701

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1701

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Arg Gly

<210> 1702

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1702

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1703

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1703

496416_PCT_ST25

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1704
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1704

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1705
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1705

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1706
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1706

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly

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5

10

15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1707

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1707

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1708

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1708

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1709

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1709

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

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Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1710
<211> 35
<212> PRT
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<223> Antimicrobial peptide sequence

<400> 1710

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1711
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1711

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1712
<211> 35
<212> PRT
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<220>
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<400> 1712

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
35

<210> 1713
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1713

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1714
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1714

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1715
<211> 35
<212> PRT
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<220>
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<400> 1715

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

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Arg Phe Gly
35

<210> 1716
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 1716

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1717
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1717

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 1718
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 1718

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly

35

<210> 1719
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1719

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 1720
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1720

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 1721
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1721

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Phe Arg Gly
 35

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<210> 1722
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1722

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 1723
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1723

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 1724
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1724

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Phe Gly
 35

<210> 1725

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<211> 36
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<220>
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<400> 1725

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Tyr Gly
 35

<210> 1726
 <211> 36
 <212> PRT
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<220>
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<400> 1726

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 1727
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1727

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 1728
 <211> 36
 <212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1728

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 1729

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1729

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 1730

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1730

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 1731

<211> 36

<212> PRT

<213> Artificial Sequence

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<220>

<223> Antimicrobial peptide sequence

<400> 1731

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
35

<210> 1732

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1732

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 1733

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1733

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 1734

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 1734

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 1735

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1735

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 1736

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1736

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
20 25 30

Gly

<210> 1737

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1737

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 1738
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1738

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 1739
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1739

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

<210> 1740
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1740

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn

1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
20 25 30

Gly

<210>	1741
<211>	33
<212>	PRT
<213>	Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1741

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210>	1742
<211>	33
<212>	PRT
<213>	Artificial sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1742

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210>	1743
<211>	33
<212>	PRT
<213>	Artificial sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1743

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

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Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 1744
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1744

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 1745
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1745

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 1746
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1746

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
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Gly

<210> 1747
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1747

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 1748
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1748

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 1749
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1749

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 1750
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1750

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 1751
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1751

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
 20 25 30

Arg Gly

<210> 1752
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1752

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

<210> 1753
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1753

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

<210> 1754
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1754

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Phe Gly

<210> 1755
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1755

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Tyr Gly

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<210> 1756
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1756

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 1757
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1757

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 1758
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1758

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 1759

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<211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1759

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 1760
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1760

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 1761
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1761

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Arg Gly

<210> 1762
 <211> 35
 <212> PRT

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<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1762

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1763

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1763

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1764

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1764

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1765

<211> 35

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

<223> Antimicrobial peptide sequence

<400> 1765

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1766

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1766

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1767

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1767

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1768

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 1768

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1769

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1769

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1770

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1770

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1771

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1771

496416_PCT_ST25

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1772
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1772

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1773
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1773

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1774
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1774

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn

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1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1775
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence
 <400> 1775

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1776
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence
 <400> 1776

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 1777
 <211> 36
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence
 <400> 1777

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

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Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 1778
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1778

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 1779
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1779

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 1780
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1780

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
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Phe Arg Phe Gly
35

<210> 1781
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1781

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Phe Arg Gly
35

<210> 1782
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1782

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 1783
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1783

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

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Phe Arg Phe Gly
35

<210> 1784
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 1784

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Phe Gly
35

<210> 1785
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 1785

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Tyr Gly
35

<210> 1786
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 1786

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly

35

<210> 1787
 <211> 36
 <212> PRT
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<220>
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<400> 1787

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 1788
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1788

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 1789
 <211> 36
 <212> PRT
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<220>
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<400> 1789

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

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<210> 1790
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1790

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 1791
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1791

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Arg Gly
 35

<210> 1792
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1792

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1793

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<211> 35
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 1793

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1794
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1794

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1795
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1795

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1796
<211> 35
<212> PRT

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<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1796

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1797

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1797

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1798

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1798

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1799

<211> 35

<212> PRT

<213> Artificial Sequence

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<220>

<223> Antimicrobial peptide sequence

<400> 1799

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1800

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1800

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1801

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1801

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1802

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

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<400> 1802

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1803

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1803

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1804

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1804

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1805

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1805

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1806
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1806

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1807
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1807

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1808
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1808

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly

1

5

10

15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1809

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1809

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1810

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1810

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1811

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1811

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

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Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1812
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1812

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1813
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1813

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1814
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1814

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Phe Gly
35

<210> 1815
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1815

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1816
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1816

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1817
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1817

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1818
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 1818

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1819
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 1819

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1820
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 1820

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly

35

<210> 1821
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1821

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 1822
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1822

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1823
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1823

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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<210> 1824
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1824

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1825
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1825

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1826
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1826

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1827

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<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1827

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1828
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1828

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1829
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1829

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1830
<211> 35
<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1830

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1831

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1831

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1832

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1832

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1833

<211> 35

<212> PRT

<213> Artificial Sequence

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<220>

<223> Antimicrobial peptide sequence

<400> 1833

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1834

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1834

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1835

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1835

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1836

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

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<400> 1836

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1837

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1837

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1838

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1838

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1839

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1839

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 1840
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1840

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1841
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1841

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1842
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1842

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly

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15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1843

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1843

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1844

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1844

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 1845

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1845

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

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Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 1846
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1846

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1847
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1847

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1848
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1848

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
35

<210> 1849
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1849

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1850
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1850

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1851
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1851

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1852
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1852

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1853
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1853

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1854
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1854

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly

35

<210> 1855
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1855

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1856
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1856

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1857
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1857

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 1858
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1858

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1859
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1859

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 1860
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1860

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 1861

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<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1861

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1862
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1862

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1863
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1863

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1864
<211> 35
<212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1864

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1865

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1865

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1866

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1866

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1867

<211> 35

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

<223> Antimicrobial peptide sequence

<400> 1867

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1868

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1868

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1869

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1869

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1870

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 1870

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1871

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1871

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1872

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1872

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1873

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1873

496416_PCT_ST25

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1874
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1874

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1875
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1875

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1876
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1876

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn

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10

15

Ser Asn Ser Asn Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1877
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1877

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1878
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1878

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1879
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1879

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

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Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1880
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1880

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1881
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1881

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1882
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1882

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
35

<210> 1883
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1883

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1884
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1884

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1885
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1885

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1886
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1886

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1887
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1887

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1888
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1888

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly

35

<210> 1889
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1889

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 1890
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1890

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 1891
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1891

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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<210> 1892
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1892

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1893
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1893

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1894
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1894

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1895

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<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1895

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1896
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1896

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1897
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1897

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1898
<211> 35
<212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1898

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1899

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1899

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1900

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1900

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1901

<211> 35

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

<223> Antimicrobial peptide sequence

<400> 1901

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1902

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1902

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1903

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1903

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1904

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 1904

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1905

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1905

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1906

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1906

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1907

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1907

496416_PCT_ST25

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1908
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1908

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1909
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1909

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1910
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1910

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly

1

5

10

15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1911

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1911

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 1912

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1912

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1913

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1913

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

496416_PCT_ST25

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1914
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1914

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1915
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1915

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1916
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1916

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 Page 616

Phe Arg Gly
35

<210> 1917
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1917

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1918
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1918

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1919
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1919

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1920
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1920

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1921
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1921

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1922
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1922

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

35

<210> 1923
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1923

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1924
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1924

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 1925
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1925

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

496416_PCT_ST25

<210> 1926
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1926

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 1927
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1927

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1928
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1928

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 1929

496416_PCT_ST25

<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1929

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1930
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1930

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1931
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1931

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1932
<211> 35
<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1932

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1933

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1933

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1934

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1934

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 1935

<211> 35

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

<223> Antimicrobial peptide sequence

<400> 1935

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 1936

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1936

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1937

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1937

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1938

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 1938

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1939

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1939

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1940

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1940

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1941

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1941

496416_PCT_ST25

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 1942
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1942

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 1943
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1943

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 1944
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1944

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly

1

5

10

15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 1945
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1945

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 1946
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1946

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
 20 25 30

Gly

<210> 1947
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1947

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

496416_PCT_ST25

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 1948
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1948

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 1949
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1949

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

<210> 1950
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1950

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr

Gly

<210> 1951
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1951

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 1952
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1952

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 1953
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1953

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 1954
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1954

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 1955
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1955

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 1956
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1956

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
 20 25 30

Gly

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<210> 1957
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1957

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 1958
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1958

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 1959
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1959

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

496416_PCT_ST25

<210> 1960
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1960

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 1961
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1961

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
 20 25 30

Arg Gly

<210> 1962
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1962

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

<210> 1963

496416_PCT_ST25

<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1963

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 1964
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1964

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Phe Gly

<210> 1965
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1965

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 1966
<211> 34
<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1966

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 1967

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1967

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 1968

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1968

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 1969

<211> 34

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

<223> Antimicrobial peptide sequence

<400> 1969

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 1970

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1970

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 1971

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1971

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Arg Gly

<210> 1972

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

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<400> 1972

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1973

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1973

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1974

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1974

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 1975

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1975

496416_PCT_ST25

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 1976
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1976

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1977
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1977

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1978
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1978

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly

1

5

10

15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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<210> 1979

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1979

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 1980

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1980

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 1981

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 1981

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

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Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1982
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1982

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1983
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1983

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 1984
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1984

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
Page 638

Arg Phe Gly
35

<210> 1985
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1985

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 1986
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1986

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 1987
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1987

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 1988
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1988

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 1989
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1989

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 1990
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1990

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly

35

<210> 1991
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1991

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 1992
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1992

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 1993
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1993

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
 35

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<210> 1994
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1994

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Phe Gly
 35

<210> 1995
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 1995

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Tyr Gly
 35

<210> 1996
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1996

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 1997

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<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1997

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 1998
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1998

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 1999
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 1999

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2000
<211> 36
<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2000

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2001

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2001

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
35

<210> 2002

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2002

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2003

<211> 33

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

<223> Antimicrobial peptide sequence

<400> 2003

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2004

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2004

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2005

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2005

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2006

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 2006

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
20 25 30

Gly

<210> 2007

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2007

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 2008

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2008

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 2009

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2009

496416_PCT_ST25

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

<210> 2010
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2010

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
20 25 30

Gly

<210> 2011
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2011

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2012
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2012

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
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15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 2013
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2013

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 2014
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2014

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 2015
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2015

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

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Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2016
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2016

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
20 25 30

Gly

<210> 2017
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2017

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 2018
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2018

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
Page 649

Arg Gly

<210> 2019
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2019

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 2020
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2020

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 2021
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2021

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 2022
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2022

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

<210> 2023
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2023

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

<210> 2024
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2024

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Phe Gly

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<210> 2025
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2025

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Tyr Gly

<210> 2026
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2026

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2027
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2027

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

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<210> 2028
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2028

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2029
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2029

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 2030
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2030

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 2031

496416_PCT_ST25

<211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2031

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Arg Gly

<210> 2032
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2032

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2033
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2033

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2034
 <211> 35
 <212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2034

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2035

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2035

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2036

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2036

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2037

<211> 35

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

<223> Antimicrobial peptide sequence

<400> 2037

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210> 2038

<211> 35

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<400> 2038

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Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210> 2039

<211> 35

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
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Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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<210> 2040

<211> 35

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496416_PCT_ST25

<400> 2040

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 2041

<211> 35

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<400> 2041

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
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Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2042

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<400> 2042

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2043

<211> 35

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<400> 2043

496416_PCT_ST25

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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<220>
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<400> 2045

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2046
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<400> 2046

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1 5 496416_PCT_ST25 10 15

Arg Arg Gly
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<400>  2049
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496416_PCT_ST25

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
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<210> 2050
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<400> 2050

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1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
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Phe Arg Phe Gly
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1 5 10 15

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Phe Phe Arg Gly
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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
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Phe Arg Phe Gly
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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

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20 25 30

Phe Arg Phe Gly
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<400> 2054

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Phe Gly
35

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<400> 2055

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

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Leu Arg Tyr Gly
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<210> 2056
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1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
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Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

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1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly

35

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 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
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 <211> 36
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<400> 2060

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 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 2061
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<400> 2061

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Arg Gly
 35

496416_PCT_ST25

<210> 2062
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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2063
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<400> 2063

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2064
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<400> 2064

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2065

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Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2066
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 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
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<210> 2067
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<400> 2067

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2068
 <211> 35
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496416_PCT_ST25

<213> Artificial Sequence

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<400> 2068

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210> 2069

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<400> 2069

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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<210> 2070

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<400> 2070

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 2071

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2072

<211> 35

<212> PRT

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<400> 2072

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2073

<211> 35

<212> PRT

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<400> 2073

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2074

<211> 35

<212> PRT

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496416_PCT_ST25

<400> 2074

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2075

<211> 35

<212> PRT

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<400> 2075

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2076

<211> 35

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 2076

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 2077

<211> 35

<212> PRT

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<400> 2077

496416_PCT_ST25

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2078
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<400> 2078

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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<400> 2079

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2080
<211> 35
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<400> 2080

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly

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Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2081

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2081

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2082

<211> 35

<212> PRT

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<220>

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<400> 2082

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2083

<211> 35

<212> PRT

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<220>

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<400> 2083

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

496416_PCT_ST25

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2084
<211> 35
<212> PRT
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<220>
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<400> 2084

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 2085
<211> 35
<212> PRT
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<220>
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<400> 2085

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 2086
<211> 35
<212> PRT
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<220>
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<400> 2086

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<210> 2087
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2087

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2088
<211> 35
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<220>
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<400> 2088

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2089
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2089

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2090
<211> 35
<212> PRT
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<220>
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<400> 2090

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2091
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2091

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 2092
<211> 35
<212> PRT
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<220>
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<400> 2092

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

35

<210> 2093
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 <212> PRT
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<220>
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<400> 2093

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2094
 <211> 35
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 2094

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2095
 <211> 35
 <212> PRT
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<220>
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<400> 2095

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 2096
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 <212> PRT
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<220>
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<400> 2096

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2097
 <211> 35
 <212> PRT
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<220>
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<400> 2097

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2098
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 <212> PRT
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<220>
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<400> 2098

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2099

496416_PCT_ST25

<211> 35
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<220>
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<400> 2099

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 2100
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<220>
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<400> 2100

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 2101
 <211> 35
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<220>
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<400> 2101

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2102
 <211> 35
 <212> PRT

<213> Artificial Sequence

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<400> 2102

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
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Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2103

<211> 35

<212> PRT

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<223> Antimicrobial peptide sequence

<400> 2103

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2104

<211> 35

<212> PRT

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<400> 2104

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1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2105

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
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Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<211> 35

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 2107

<211> 35

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<400> 2107

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2108

<211> 35

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2109

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2110

<211> 35

<212> PRT

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<400> 2110

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2111

<211> 35

<212> PRT

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<400> 2111

496416_PCT_ST25

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2113
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<400> 2113

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210> 2114
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<400> 2114

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Ser Gly Ser Gly Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
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<210> 2115

<211> 35

<212> PRT

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<220>

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<400> 2115

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
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<210> 2116

<211> 35

<212> PRT

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2117

<211> 35

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

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Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<400> 2120

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

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<220>
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<400> 2121

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 2122
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<400> 2122

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2123
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<220>
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<400> 2123

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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<400> 2124

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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<220>
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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly

35

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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 1 5 10 15

Asn Ser Asn Ser Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
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Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
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Asn Ser Asn Ser Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

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Phe Arg Gly
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 20 25 30

Arg Phe Gly
 35

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 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<211> 35

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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<211> 35

<212> PRT

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Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
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Arg Phe Gly
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<211> 35

<212> PRT

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20 25 30

Arg Phe Gly
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<211> 35

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
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Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
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20 25 30

Arg Phe Gly
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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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Ser Asn Ser Asn Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

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20 25 30

Phe Arg Gly
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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
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Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

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Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
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<210> 2152
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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2153
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<400> 2153

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2154
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<400> 2154

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

<210> 2155
<211> 35
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<220>
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<400> 2155

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2156
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1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2157
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Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2159
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<400> 2159

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

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Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly

35

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 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 2162
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<400> 2162

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 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2163
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<400> 2163

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Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2165
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<400> 2165

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 1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2166
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<400> 2166

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp His
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Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 2167

496416_PCT_ST25

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<400> 2167

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
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His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2168
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<400> 2168

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2169
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<400> 2169

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2170
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<400> 2170

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2171

<211> 35

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2172

<211> 35

<212> PRT

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<400> 2172

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2173

<211> 35

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<220>

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<400> 2173

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2174

<211> 35

<212> PRT

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<400> 2174

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 2175

<211> 35

<212> PRT

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<400> 2175

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 2176

<211> 35

<212> PRT

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496416_PCT_ST25

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1 5 10 15

His Gly His Gly His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2177

<211> 35

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<400> 2177

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1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2178

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<400> 2178

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2179

<211> 35

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<400> 2179

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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<211> 35
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<400> 2180

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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<400> 2181

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 2182
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<400> 2182

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp His

1 5 10 15

Phe Arg Gly
35

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<220>
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Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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<220>
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Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 2186
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 1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

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 1 5 10 15

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 20 25 30

Arg Phe Gly
 35

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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<210> 2189
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<220>
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<400> 2189

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

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1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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1 5 10 15

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20 25 30

Phe Arg Gly
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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp His
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Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly

35

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Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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 1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
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 1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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<210> 2198
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 1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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 1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2200
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 1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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 1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2202
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<400> 2202

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 1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2203
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 1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2204
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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 2205

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1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 2206

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1 5 10 15

His Asn His Asn His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2208

<211> 35

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2209

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<400> 2209

Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2210

<211> 35

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1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2211

<211> 35

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Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 2212

<211> 33

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<400> 2212

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2213

<211> 33

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<400> 2213

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2214
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<400> 2214

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1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2215
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<220>
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<400> 2215

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1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2216
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2216

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
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1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
 20 25 30

Gly

<210> 2217
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 1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
 20 25 30

Gly

<210> 2218
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<220>
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 1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
 20 25 30

Gly

<210> 2219
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 1 5 10 15

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Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

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<210> 2220
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<400> 2220

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1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
20 25 30

Gly

<210> 2221
<211> 33
<212> PRT
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<220>
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<400> 2221

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2222
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 2222

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
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Gly

<210> 2223
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 <212> PRT
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<220>
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<400> 2223

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 2224
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<220>
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<400> 2224

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 1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 2225
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2225

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 2226
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 <212> PRT
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 1 5 10 15

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 20 25 30

Gly

<210> 2227
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 <212> PRT
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<220>
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 <400> 2227

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2228
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<220>
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 <400> 2228

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 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2229
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2229

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 2230
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<220>
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<400> 2230

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 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 2231
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2231

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
 20 25 30

Arg Gly

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<210> 2232
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<220>
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<400> 2232

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 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

<210> 2233
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<220>
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<400> 2233

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

<210> 2234
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<220>
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<400> 2234

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 1 5 10 15

Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Phe Gly

<210> 2235

496416_PCT_ST25

<211> 34
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<223> Antimicrobial peptide sequence

<400> 2235

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 2236
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2236

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 2237
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2237

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 2238
<211> 34
<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2238

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 2239

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2239

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 2240

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2240

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 2241

<211> 34

<212> PRT

<213> Artificial Sequence

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<220>

<223> Antimicrobial peptide sequence

<400> 2241

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Arg Gly

<210> 2242

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2242

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2243

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2243

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2244

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 2244

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2245

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2245

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2246

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2246

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2247

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2247

496416_PCT_ST25

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2248
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2248

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2249
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2249

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 2250
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2250

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly

1

5

10

15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 2251

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2251

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2252

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2252

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2253

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2253

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

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Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2254
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2254

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2255
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2255

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2256
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2256

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
Page 726

Arg Arg Gly
35

<210> 2257
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2257

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 2258
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2258

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 2259
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2259

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2260
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 2260

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2261
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 2261

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Phe Arg Gly
35

<210> 2262
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 2262

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly

35

<210> 2263
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2263

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 2264
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2264

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Phe Gly
 35

<210> 2265
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2265

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Tyr Gly
 35

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<210> 2266
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2266

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 2267
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2267

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 2268
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2268

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 2269

496416_PCT_ST25

<211> 36
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<220>
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<400> 2269

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 2270
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2270

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 2271
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2271

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Arg Gly
 35

<210> 2272
 <211> 33
 <212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2272

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2273

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2273

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2274

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2274

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2275

<211> 33

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

<223> Antimicrobial peptide sequence

<400> 2275

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2276

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2276

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
20 25 30

Gly

<210> 2277

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2277

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 2278

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 2278

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 2279

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2279

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

<210> 2280

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2280

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
20 25 30

Gly

<210> 2281

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2281

496416_PCT_ST25

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2282
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2282

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2283
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2283

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2284
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2284

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn

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1	5	10	15
Asn	Asn	Asn	Gly
		Leu	Pro
		Trp	Ile
		Leu	Leu
		Arg	Trp
		Leu	Phe
			Arg
			Phe

Gly

<210> 2285
 <211> 33
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Antimicrobial peptide sequence
 <400> 2285

Gly	Leu	Val	Arg	Ile	Leu	Leu	Arg	Leu	Leu	Leu	Arg	Tyr	Gly	Asp	Asn
1				5					10					15	

Asn	Asn	Asn	Gly	Leu	Leu	Arg	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Arg	Phe
			20					25					30		

Gly

<210> 2286
 <211> 33
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Antimicrobial peptide sequence
 <400> 2286

Gly	Leu	Val	Arg	Ile	Leu	Leu	Arg	Leu	Leu	Leu	Arg	Tyr	Gly	Asp	Asn
1				5					10					15	

Asn	Asn	Asn	Gly	Leu	Pro	Trp	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Arg	Arg
			20					25					30		

Gly

<210> 2287
 <211> 34
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Antimicrobial peptide sequence
 <400> 2287

Gly	Leu	Val	Arg	Ile	Leu	Leu	Arg	Leu	Leu	Leu	Arg	Tyr	Gly	Asp	Asn
1				5					10					15	

496416_PCT_ST25

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2288
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2288

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2289
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2289

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 2290
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2290

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
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Phe Gly

<210> 2291
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2291

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 2292
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2292

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 2293
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2293

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 2294
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2294

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Phe Gly

<210> 2295
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2295

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Tyr Gly

<210> 2296
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2296

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2297
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2297

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2298
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2298

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2299
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2299

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

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<210> 2300
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2300

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 2301
 <211> 34
 <212> PRT
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<220>
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<400> 2301

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Arg Gly

<210> 2302
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2302

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 2303

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<211> 35
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<400> 2303

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 2304
 <211> 35
 <212> PRT
 <213> Artificial Sequence

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<400> 2304

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 2305
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2305

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 2306
 <211> 35
 <212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Phe Arg Gly
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<210> 2307

<211> 35

<212> PRT

<213> Artificial Sequence

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210> 2308

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 2308

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210> 2309

<211> 35

<212> PRT

<213> Artificial Sequence

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<220>

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<400> 2309

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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<210> 2310

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 2310

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 2311

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 2311

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2312

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 2312

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2313

<211> 35

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<400> 2313

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2314

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 2314

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2315

<211> 35

<212> PRT

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<400> 2315

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2316
<211> 35
<212> PRT
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<220>
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<400> 2316

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 2317
<211> 36
<212> PRT
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<400> 2317

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 2318
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2318

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn

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15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
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<210> 2319

<211> 36

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Antimicrobial peptide sequence

<400> 2319

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
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Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2320

<211>	36

<212> PRT

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<223> Antimicrobial peptide sequence

<400> 2320

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
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Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
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Phe Arg Phe Gly
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<210> 2321

$\langle 211 \rangle$	36

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$\langle 400 \rangle$ 2321

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

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Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Phe Arg Gly
35

<210> 2322
<211> 36
<212> PRT
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<220>
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<400> 2322

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2323
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<400> 2323

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
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<210> 2324
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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
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Leu Arg Phe Gly
35

<210> 2325
<211> 36
<212> PRT
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<220>
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<400> 2325

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Tyr Gly
35

<210> 2326
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2326

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 2327
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<212> PRT
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<400> 2327

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

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Phe Phe Arg Gly
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<210> 2328
<211> 36
<212> PRT
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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 2329
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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2330
<211> 36
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<400> 2330

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly

35

<210> 2331
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 <212> PRT
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<220>
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<400> 2331

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Arg Gly
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<210> 2332
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 <212> PRT
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<400> 2332

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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<210> 2334
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<400> 2334

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2335
 <211> 35
 <212> PRT
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<220>
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<400> 2335

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2336
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 <212> PRT
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<220>
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<400> 2336

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2337

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<211> 35
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<400> 2337

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2338
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<212> PRT
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<400> 2338

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2339
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<212> PRT
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<220>
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<400> 2339

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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<210> 2340
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<213> Artificial Sequence

<220>

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<400> 2340

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 2341

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2341

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2342

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 2342

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2343

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<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 2343

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2344

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2344

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2345

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2345

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2346

<211> 35

<212> PRT

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<220>

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<400> 2346

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 2347

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 2347

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2348

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 2348

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2349

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2349

496416_PCT_ST25

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2350
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<212> PRT
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<400> 2350

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2351
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2351

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2352
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2352

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly

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Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2353
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2353

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2354
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2354

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 2355
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2355

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

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Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 2356
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2356

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2357
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2357

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2358
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2358

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
35

<210> 2359
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2359

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2360
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2360

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2361
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2361

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 2362
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 2362

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2363
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 2363

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2364
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2364

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly

35

<210> 2365
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<220>
 <223> Antimicrobial peptide sequence

<400> 2365

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2366
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2366

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2367
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2367

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 2368
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2368

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2369
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2369

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 2370
 <211> 35
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 2370

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 2371

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<211> 35
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<220>
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<400> 2371

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2372
<211> 35
<212> PRT
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<220>
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<400> 2372

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2373
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2373

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2374
<211> 35
<212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2374

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2375

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2375

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2376

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2376

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 2377

<211> 35

<212> PRT

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<220>

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<400> 2377

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2378

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2378

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2379

<211> 35

<212> PRT

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<220>

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<400> 2379

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2380

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 2380

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2381

<211> 35

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<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2381

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2382

<211> 35

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<213> Artificial Sequence

<220>

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<400> 2382

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2383

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 2383

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2384
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2384

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 2385
<211> 35
<212> PRT
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<220>
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<400> 2385

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 2386
<211> 35
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 2386

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly

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Ser Gly Ser Gly Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 2387
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2387

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2388
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 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 2388

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2389
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 <212> PRT
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<220>
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<400> 2389

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

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Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2390
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2390

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2391
<211> 35
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 2391

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 2392
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<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2392

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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25

Phe Arg Gly
35

<210> 2393
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2393

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2394
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2394

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2395
<211> 35
<212> PRT
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<220>
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<400> 2395

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2396
<211> 35
<212> PRT
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<220>
<223> Antimicrobial peptide sequence
<400> 2396

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2397
<211> 35
<212> PRT
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<220>
<223> Antimicrobial peptide sequence
<400> 2397

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2398
<211> 35
<212> PRT
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<220>
<223> Antimicrobial peptide sequence
<400> 2398

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly

35

<210> 2399
 <211> 35
 <212> PRT
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<220>
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<400> 2399

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 2400
 <211> 35
 <212> PRT
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<220>
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<400> 2400

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 2401
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2401

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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<210> 2402
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2402

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2403
 <211> 35
 <212> PRT
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<220>
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<400> 2403

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2404
 <211> 35
 <212> PRT
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<220>
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<400> 2404

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2405

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<211> 35
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<220>
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<400> 2405

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2406
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2406

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 2407
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2407

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2408
 <211> 35
 <212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

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<400> 2408

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2409

<211> 35

<212> PRT

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<220>

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<400> 2409

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2410

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 2410

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2411

<211> 35

<212> PRT

<213> Artificial Sequence

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<220>

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<400> 2411

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2412

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 2412

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2413

<211> 35

<212> PRT

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<220>

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<400> 2413

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2414

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 2414

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 2415

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2415

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 2416

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2416

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2417

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 2417

496416_PCT_ST25

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2418
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2418

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2419
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2419

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2420
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2420

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn

1

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10

15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2421

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2421

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 2422

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2422

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2423

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2423

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp His
 1 5 10 15

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Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2424
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2424

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2425
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2425

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2426
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2426

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
35

<210> 2427
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2427

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2428
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2428

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2429
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2429

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp His
1 5 10 15

Gly His Gly His Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 2430
<211> 35
<212> PRT
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<220>
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<400> 2430

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp His
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Gly His Gly His Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<400> 2432

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1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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<400> 2435

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 2436
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<400> 2436

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 2437
 <211> 35
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<400> 2437

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 2438
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<400> 2438

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 2440
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<400> 2440

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 1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2441
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<400> 2441

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2442
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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2443

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210> 2444

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1 5 10 15

His Gly His Gly His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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1 5 10 15

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20 25 30

Arg Tyr Gly
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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
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His Gly His Gly His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2447

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2448

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1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2449

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2450

<211> 35

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<400> 2450

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2451

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2454
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<400> 2454

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1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210>	2456
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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210>	2457
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1 5 10 15

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Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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<400> 2458

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Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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 20 25 30

Arg Phe Gly
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<210> 2460
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<400> 2460

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Tyr Gly
35

<210> 2461
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<220>
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<400> 2461

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2462
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<400> 2462

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2463
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<400> 2463

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Arg Tyr Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly

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<400> 2467

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 2468
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<400> 2468

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2469
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 <212> PRT
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<220>
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<400> 2469

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 2470
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<400> 2470

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2471
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 <212> PRT
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<220>
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<400> 2471

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2472
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<400> 2472

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2473

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<211> 35
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<220>
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<400> 2473

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2474
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<220>
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<400> 2474

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

His Asn His Asn His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 2475
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 <212> PRT
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<220>
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<400> 2475

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 2476
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<220>

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<400> 2476

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2477

<211> 35

<212> PRT

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<220>

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<400> 2477

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2478

<211> 35

<212> PRT

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<220>

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<400> 2478

Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2479

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<220>

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<400> 2479

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1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2480

<211> 35

<212> PRT

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2481

<211> 35

<212> PRT

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<220>

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Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 2482

<211> 33

<212> PRT

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<400> 2482

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2483

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

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<400> 2483

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2484

<211> 33

<212> PRT

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<220>

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<400> 2484

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2485

<211> 33

<212> PRT

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<400> 2485

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2486
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<212> PRT
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<220>
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<400> 2486

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
20 25 30

Gly

<210> 2487
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2487

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 2488
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 2488

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
 20 25 30

Gly

<210> 2489
 <211> 33
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<400> 2489

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
 20 25 30

Gly

<210> 2490
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 <212> PRT
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<400> 2490

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
 20 25 30

Gly

<210> 2491
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<220>
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<400> 2491

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 1 5 10 15

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Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2492
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<400> 2492

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2493
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<212> PRT
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<220>
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<400> 2493

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1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2494
<211> 33
<212> PRT
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<220>
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<400> 2494

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1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
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Gly

<210> 2495
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2495

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2496
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2496

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
20 25 30

Gly

<210> 2497
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<220>
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<400> 2497

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1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 2498
 <211> 34
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<220>
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<400> 2498

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 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2499
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<400> 2499

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 2500
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<400> 2500

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 2501
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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
 20 25 30

Arg Gly

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<400> 2502

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

<210> 2503
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<220>
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<400> 2503

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

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<210> 2504
 <211> 34
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<220>
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<400> 2504

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Phe Gly

<210> 2505
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<400> 2505

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Tyr Gly

<210> 2506
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<400> 2506

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2507

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2508
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<220>
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<400> 2508

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2509
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<220>
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<400> 2509

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 2510
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<400> 2510

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 2511

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Arg Gly

<210> 2512

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<400> 2512

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2513

<211> 35

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<400> 2513

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2514

<211> 35

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

<210> 2515

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<400> 2515

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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<210> 2516

<211> 35

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<400> 2516

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2517

<211> 35

<212> PRT

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<400> 2517

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2518

<211> 35

<212> PRT

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<220>

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<400> 2518

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2519

<211> 35

<212> PRT

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<220>

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<400> 2519

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 2520
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<400> 2520

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 2521
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<212> PRT
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<400> 2521

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2522
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<400> 2522

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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1

5

10

15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2523

<211> 35

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<400> 2523

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2524

<211> 35

<212> PRT

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<400> 2524

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2525

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2525

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

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Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2526
<211> 35
<212> PRT
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<220>
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<400> 2526

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 2527
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2527

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 2528
<211> 36
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<213> Artificial Sequence

<220>
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<400> 2528

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
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Phe Phe Arg Gly
35

<210> 2529
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2529

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2530
<211> 36
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<220>
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<400> 2530

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2531
<211> 36
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<400> 2531

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

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Phe Phe Arg Gly
35

<210> 2532
<211> 36
<212> PRT
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<400> 2532

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2533
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<220>
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<400> 2533

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2534
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<212> PRT
<213> Artificial Sequence

<220>
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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Phe Gly

35

<210> 2535
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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Tyr Gly
 35

<210> 2536
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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2536

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 2537
 <211> 36
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<220>
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<400> 2537

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

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<210> 2538
 <211> 36
 <212> PRT
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<220>
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<400> 2538

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 2539
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<220>
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<400> 2539

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 2540
 <211> 36
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<220>
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<400> 2540

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 2541

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Arg Gly
 35

<210> 2542
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2542

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 2543
 <211> 33
 <212> PRT
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<220>
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<400> 2543

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 2544
 <211> 33
 <212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2544

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2545

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2545

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2546

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2546

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
20 25 30

Gly

<210> 2547

<211> 33

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<220>

<223> Antimicrobial peptide sequence

<400> 2547

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 2548

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<212> PRT

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<220>

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<400> 2548

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 2549

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<400> 2549

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

<210> 2550

<211> 33

<212> PRT

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496416_PCT_ST25

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
20 25 30

Gly

<210> 2551

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

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<400> 2551

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2552

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

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<400> 2552

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2553

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2553

496416_PCT_ST25

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2554
<211> 33
<212> PRT
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<220>
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<400> 2554

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2555
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2555

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2556
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2556

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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1	5	10	15
Asn	Asn	Asn	Gly
	20	Leu	Pro
		Trp	Ile
		Leu	Leu
		Arg	Trp
		Leu	Phe
			30
			Arg
			Arg

Gly

<210> 2557
 <211> 34
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 <223> Antimicrobial peptide sequence
 <400> 2557

Gly	Leu	Ala	Trp	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Phe	Arg	Gly	Asp	Asn
1				5					10					15	

Asn	Asn	Asn	Asn	Gly	Leu	Pro	Trp	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Phe
			20					25					30		

Arg Gly

<210> 2558
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 <212> PRT
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 <223> Antimicrobial peptide sequence
 <400> 2558

Gly	Leu	Ala	Trp	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Phe	Arg	Gly	Asp	Asn
1				5					10					15	

Asn	Asn	Asn	Asn	Gly	Leu	Ala	Arg	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Phe
			20					25					30		

Arg Gly

<210> 2559
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 <400> 2559

Gly	Leu	Ala	Trp	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Phe	Arg	Gly	Asp	Asn
1				5					10					15	

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Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 2560
<211> 34
<212> PRT
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<220>
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<400> 2560

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 2561
<211> 34
<212> PRT
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<220>
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<400> 2561

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 2562
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2562

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg

Phe Gly

<210> 2563
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2563

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 2564
<211> 34
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<220>
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<400> 2564

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Phe Gly

<210> 2565
<211> 34
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 2565

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 2566
 <211> 34
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<220>
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<400> 2566

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2567
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2567

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2568
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2568

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2569
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2569

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 2570
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2570

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 2571
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2571

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Arg Gly

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<210> 2572
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2572

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2573
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2573

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2574
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2574

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2575

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<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2575

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2576
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2576

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2577
<211> 35
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 2577

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2578
<211> 35
<212> PRT

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<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2578

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2579

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2579

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 2580

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2580

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 2581

<211> 35

<212> PRT

<213> Artificial Sequence

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<220>

<223> Antimicrobial peptide sequence

<400> 2581

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2582

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2582

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2583

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2583

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2584

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

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<400> 2584

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2585

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2585

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2586

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2586

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 2587

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2587

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 2588
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2588

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 2589
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2589

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2590
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2590

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210>	2591
<211>	36
<212>	PRT
<213>	Artificial sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2591

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Phe Arg Gly
35

<210>	2592
<211>	36
<212>	PRT
<213>	Artificial sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2592

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210>	2593
<211>	36
<212>	PRT
<213>	Artificial Sequence

<220>
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<400> 2593

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

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Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2594
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2594

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Phe Gly
35

<210> 2595
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2595

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Tyr Gly
35

<210> 2596
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2596

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
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Phe Phe Arg Gly
35

<210> 2597
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2597

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 2598
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2598

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 2599
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2599

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

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Phe Arg Phe Gly
35

<210> 2600
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 2600

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2601
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 2601

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
35

<210> 2602
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2602

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

35

<210> 2603
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2603

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2604
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2604

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2605
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2605

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 2606
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2606

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2607
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2607

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2608
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2608

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2609

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<211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2609

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 2610
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2610

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 2611
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2611

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2612
 <211> 35
 <212> PRT

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<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2612

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2613

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2613

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2614

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2614

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2615

<211> 35

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

<223> Antimicrobial peptide sequence

<400> 2615

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2616

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2616

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 2617

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2617

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2618

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 2618

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2619

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2619

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2620

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2620

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2621

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2621

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2622
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2622

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2623
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2623

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2624
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2624

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496416_PCT_ST25

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Arg Phe Gly
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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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1 5 10 15

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Phe Arg Gly
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Phe Arg Gly
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1 5 10 15

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Arg Phe Gly
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1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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 1 5 10 15

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Arg Phe Gly
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Arg Phe Gly
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 1 5 10 15

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Arg Phe Gly
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 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
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<210> 2641
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Gly Ser Gly Ser Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2642
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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
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Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
35

<210> 2644
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1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Arg Gly
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Phe Arg Gly
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Phe Arg Gly
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Arg Phe Gly
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Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Phe Arg Gly
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<210> 2652

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Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
35

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<400> 2653

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Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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Ser Gly Ser Gly Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Phe Gly
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<210> 2655

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496416_PCT_ST25

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1 5 10 15

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Arg Tyr Gly
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Ser Gly Ser Gly Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Phe Arg Gly
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1

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Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<210> 2659
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Arg Phe Gly
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<210> 2660
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Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
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Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<210> 2663
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Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
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Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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<210> 2667
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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

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Arg Phe Gly
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<210> 2668
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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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1 5 10 15

Asn Ser Asn Ser Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Phe Gly
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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly

35

<210> 2671
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 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 2672
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 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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496416_PCT_ST25

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Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2675
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 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 2676
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 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 2677

496416_PCT_ST25

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20 25 30

Phe Arg Gly
35

<210> 2678
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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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<400> 2679

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2680
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496416_PCT_ST25

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2681

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2682

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2684

<211> 35

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

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20 25 30

Arg Phe Gly
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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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496416_PCT_ST25

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Ser Asn Ser Asn Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2687

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<400> 2687

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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2688

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Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<212> PRT

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<400> 2689

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<400> 2690

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2691
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<400> 2691

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<400> 2692

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Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<400> 2693

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
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Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Arg Phe Gly
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<210> 2695

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Phe Arg Gly
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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
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Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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<210> 2699
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<400> 2699

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Phe Gly
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1 5 10 15

Gly His Gly His Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
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Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 2706
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<400> 2706

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
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<220>
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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 2708
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<220>
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<400> 2708

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 2709
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<220>
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<400> 2709

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 2710
 <211> 35
 <212> PRT
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<220>
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<400> 2710

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 2711

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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<210> 2712
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<400> 2712

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210> 2713
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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210> 2714
<211> 35
<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2714

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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<210> 2715

<211> 35

<212> PRT

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<220>

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 2716

<211> 35

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 2716

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2717

<211> 35

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 2717

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<210> 2718

<211> 35

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<220>

<223> Antimicrobial peptide sequence

<400> 2718

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2719

<211> 35

<212> PRT

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<400> 2719

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2720

<211> 35

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2721

<211> 35

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<400> 2721

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 2722

<211> 35

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<400> 2722

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2723

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<400> 2723

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2724
<211> 35
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<220>
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<400> 2724

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2725
<211> 35
<212> PRT
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<220>
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<400> 2725

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2726
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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His

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Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
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<210> 2727

<211> 35

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 2727

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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<210> 2728

<211> 35

<212> PRT

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<220>

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<400> 2728

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2729

<211> 35

<212> PRT

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<220>

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<400> 2729

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

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Asn His Asn His Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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<210> 2730
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<400> 2730

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 2731
<211> 35
<212> PRT
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<400> 2731

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2732
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<212> PRT
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<400> 2732

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<210> 2733
<211> 35
<212> PRT
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<220>
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<400> 2733

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2734
<211> 35
<212> PRT
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<220>
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<400> 2734

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2735
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<400> 2735

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2736
<211> 35
<212> PRT
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<220>
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<400> 2736

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 2737
<211> 35
<212> PRT
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<220>
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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2738
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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

35

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<400> 2739

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 2740
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<400> 2740

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2741
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 <212> PRT
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<400> 2741

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2743
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<220>
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<400> 2743

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2744
 <211> 35
 <212> PRT
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<220>
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<400> 2744

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 2745

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<211> 35
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<400> 2745

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 2746
<211> 35
<212> PRT
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<220>
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<400> 2746

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2747
<211> 35
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<400> 2747

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2748
<211> 35
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<400> 2748

Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2749

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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 2752

<211> 33

<212> PRT

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<400> 2752

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2753

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2753

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2754

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 2754

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2755

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2755

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2756

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2756

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
20 25 30

Gly

<210> 2757

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2757

496416_PCT_ST25

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 2758
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2758

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 2759
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2759

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

<210> 2760
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2760

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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496416_PCT_ST25

1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
 20 25 30

Gly

<210> 2761
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence
 <400> 2761

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 2762
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence
 <400> 2762

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 2763
 <211> 33
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence
 <400> 2763

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

496416_PCT_ST25

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 2764
<211> 33
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 2764

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2765
<211> 33
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 2765

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2766
<211> 33
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<400> 2766

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
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Gly

<210> 2767
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2767

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2768
 <211> 34
 <212> PRT
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<220>
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<400> 2768

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2769
 <211> 34
 <212> PRT
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<220>
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<400> 2769

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 2770
 <211> 34
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 2770

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 2771
 <211> 34
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 2771

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
 20 25 30

Arg Gly

<210> 2772
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2772

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

<210> 2773
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2773

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

<210> 2774
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2774

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Phe Gly

<210> 2775
 <211> 34
 <212> PRT
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<220>
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<400> 2775

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Tyr Gly

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<210> 2776
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2776

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2777
 <211> 34
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 2777

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2778
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2778

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 2779

496416_PCT_ST25

<211> 34
 <212> PRT
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<220>
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<400> 2779

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 2780
 <211> 34
 <212> PRT
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<220>
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<400> 2780

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 2781
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2781

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Arg Gly

<210> 2782
 <211> 35
 <212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2782

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2783

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2783

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2784

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2784

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2785

<211> 35

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

<223> Antimicrobial peptide sequence

<400> 2785

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2786

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2786

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2787

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2787

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2788

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 2788

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2789

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2789

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 2790

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2790

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 2791

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2791

496416_PCT_ST25

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2792
<211> 35
<212> PRT
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<220>
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<400> 2792

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2793
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2793

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2794
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2794

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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1

5

10

15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2795

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2795

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2796

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2796

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 2797

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2797

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

496416_PCT_ST25

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 2798
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2798

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 2799
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2799

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2800
<211> 36
<212> PRT
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<220>
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<400> 2800

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
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20 496416_PCT_ST25 30
25

Phe Arg Phe Gly
35

<210> 2801
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2801

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Phe Arg Gly
35

<210> 2802
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 2802

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2803
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<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 2803

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2804
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 2804

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Phe Gly
35

<210> 2805
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 2805

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Tyr Gly
35

<210> 2806
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 2806

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly

35

<210> 2807
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2807

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 2808
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2808

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 2809
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2809

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

496416_PCT_ST25

<210> 2810
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2810

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 2811
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2811

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Arg Gly
 35

<210> 2812
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2812

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 2813

496416_PCT_ST25

<211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2813

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 2814
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2814

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 2815
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 2815

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 2816
 <211> 33
 <212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2816

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
20 25 30

Gly

<210> 2817

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2817

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 2818

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2818

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 2819

<211> 33

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

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<400> 2819

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

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Gly

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Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
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Gly

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496416_PCT_ST25

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Gly

<210> 2824

<211> 33

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Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2825

<211> 33

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<400> 2825

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 2826
<211> 33
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<400> 2826

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
20 25 30

Gly

<210> 2827
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<400> 2827

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
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Arg Gly

<210> 2828
<211> 34
<212> PRT
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<220>
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<400> 2828

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn

496416_PCT_ST25

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	Gly	Leu	Ala
		Arg	Ile
			Leu
			Leu
			Arg
			Trp
			Leu
			Phe
			Phe

Arg Gly

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Asn	Asn	Asn	Asn	Gly	Leu	Ala	Arg	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Arg
				20				25					30		

Phe Gly

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Gly	Leu	Val	Arg	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Phe	Arg	Gly	Asp	Asn
1				5					10					15	

Asn	Asn	Asn	Asn	Gly	Leu	Val	Arg	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Arg
				20				25					30		

Phe Gly

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Gly	Leu	Val	Arg	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Phe	Arg	Gly	Asp	Asn
1				5					10					15	

496416_PCT_ST25

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 2832
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<400> 2832

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
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Phe Gly

<210> 2833
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<400> 2833

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 2834
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
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Phe Gly

<210> 2835
<211> 34
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<220>
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<400> 2835

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
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Tyr Gly

<210> 2836
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 2837
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
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Arg Gly

<210> 2838
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
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Arg Gly

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
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Phe Gly

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Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

496416_PCT_ST25

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Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Arg Gly

<210> 2842
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 2843
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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496416_PCT_ST25

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 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 2845
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 2846
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<220>
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<400> 2846

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
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<210> 2847

496416_PCT_ST25

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Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Phe Gly
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496416_PCT_ST25

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Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 2851

<211> 35

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Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2853

<211> 35

<212> PRT

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2854

<211> 35

<212> PRT

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<400> 2854

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2855

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Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2856

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496416_PCT_ST25

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Arg Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
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Phe Phe Arg Gly
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<210> 2858

<211> 36

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<400> 2858

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
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<210> 2859

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<212> PRT

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<400> 2859

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
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1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
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<210> 2861
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<220>
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<400> 2861

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Phe Arg Gly
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<210> 2862
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<220>
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<400> 2862

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Phe Arg Phe Gly
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Phe Arg Phe Gly
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Leu Arg Phe Gly
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496416_PCT_ST25

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Tyr Gly
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<210> 2866
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1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
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<210> 2867
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<400> 2867

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 2868
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<400> 2868

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
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20 496416_PCT_ST25 30
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Phe Phe Arg Gly
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<210> 2869
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<400> 2869

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1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2870
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 2871
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<220>
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<400> 2871

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
35

<210> 2872
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<400> 2872

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2873
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<220>
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<400> 2873

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2874
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly

35

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Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Phe Arg Gly
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 20 25 30

Arg Phe Gly
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496416_PCT_ST25

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Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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 20 25 30

Arg Tyr Gly
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Gly Asn Gly Asn Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 2882
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<400> 2882

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Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 2883
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<400> 2883

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 20 25 30

Phe Arg Gly
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<210> 2884
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2885

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2886

<211> 35

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<400> 2886

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Arg Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2888

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2890

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2891

<211> 35

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2892

<211> 35

<212> PRT

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2893

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 2896
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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Asn Gly Asn Gly Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2897

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 2899

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Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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 20 25 30

Arg Phe Gly
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 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
35

<210> 2903
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<220>
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<400> 2903

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly ser Gly ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2904
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly ser Gly ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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<220>
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<400> 2905

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly ser Gly ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly

35

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<400> 2909

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Phe Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
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<210> 2911
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<400> 2911

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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<210> 2912
 <211> 35
 <212> PRT
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<220>
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<400> 2912

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2913
 <211> 35
 <212> PRT
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<220>
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<400> 2913

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2914
 <211> 35
 <212> PRT
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<220>
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<400> 2914

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 2915

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<220>
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<400> 2915

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2916
 <211> 35
 <212> PRT
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<220>
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<400> 2916

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 2917
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<400> 2917

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2918
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<213> Artificial Sequence

<220>

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<400> 2918

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2919

<211> 35

<212> PRT

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<400> 2919

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2920

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 2920

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2921

<211> 35

<212> PRT

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<220>

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<400> 2921

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2922

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<212> PRT

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<400> 2922

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2923

<211> 35

<212> PRT

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<220>

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<400> 2923

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2924

<211> 35

<212> PRT

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<400> 2924

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 2925

<211> 35

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 2925

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 2926

<211> 35

<212> PRT

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<400> 2926

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2927

<211> 35

<212> PRT

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<400> 2927

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2928
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<400> 2928

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2929
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<400> 2929

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2930
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<400> 2930

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2931

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2931

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 2932

<211> 35

<212> PRT

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<400> 2932

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2933

<211> 35

<212> PRT

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<400> 2933

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

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Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2934
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<400> 2934

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2935
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<400> 2935

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2936
<211> 35
<212> PRT
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<220>
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<400> 2936

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Phe Arg Gly
35

<210> 2937
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 2937

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2938
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<212> PRT
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<220>
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<400> 2938

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2939
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<212> PRT
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<220>
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<400> 2939

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 2940
<211> 35
<212> PRT
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<400> 2940

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 2941
<211> 35
<212> PRT
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<220>
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<400> 2941

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2942
<211> 35
<212> PRT
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<220>
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<400> 2942

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

35

<210> 2943
 <211> 35
 <212> PRT
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<220>
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<400> 2943

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2944
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<220>
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<400> 2944

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2945
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<220>
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<400> 2945

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 2946
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<220>
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<400> 2946

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 2947
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 <212> PRT
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<220>
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<400> 2947

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2948
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<400> 2948

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2949

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<400> 2949

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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<212> PRT
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Phe Arg Gly
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<220>

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<400> 2952

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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2953

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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210> 2954

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Ser Asn Ser Asn Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Phe Gly
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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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Ser Asn Ser Asn Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2958

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Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 2959

<211> 35

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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2960

<211> 35

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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 2961

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2964
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<400> 2964

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
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1

5

10

15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2965

<211> 35

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<400> 2965

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Phe Arg Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
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Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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<210> 2969
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 1 5 10 15

Gly His Gly His Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

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<400> 2970

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
35

<210> 2971
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1 5 10 15

Gly His Gly His Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2972
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2973
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<400> 2973

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2974
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2975
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1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly

35

<210> 2977
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<400> 2977

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2978
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<400> 2978

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2979
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<400> 2979

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 2980
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<400> 2980

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2981
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<400> 2981

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 2982
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2983

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<400> 2983

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 2984
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<220>
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<400> 2984

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 2985
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<220>
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<400> 2985

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 2986
 <211> 35
 <212> PRT

<213> Artificial Sequence

<220>

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<400> 2986

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2987

<211> 35

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<400> 2987

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2988

<211> 35

<212> PRT

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<400> 2988

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2989

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<212> PRT

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<400> 2989

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2990

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<212> PRT

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2991

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 2991

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 2992

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2993

<211> 35

<212> PRT

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<220>

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<400> 2993

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2994

<211> 35

<212> PRT

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<400> 2994

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2995

<211> 35

<212> PRT

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<400> 2995

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2996
<211> 35
<212> PRT
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 2997
<211> 35
<212> PRT
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<400> 2997

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 2998
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His

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1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210>	2999
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210>	3000
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210>	3001
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

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Asn His Asn His Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3002
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<400> 3002

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3003
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 <212> PRT
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<220>
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<400> 3003

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3004
 <211> 35
 <212> PRT
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<220>
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<400> 3004

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

<210> 3005
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3005

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3006
<211> 35
<212> PRT
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<220>
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<400> 3006

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 3007
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<212> PRT
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<220>
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<400> 3007

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

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Phe Arg Gly
35

<210> 3008
<211> 35
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3009
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<212> PRT
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<220>
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3010
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<212> PRT
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<220>
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly

35

<210> 3011
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<220>
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<400> 3011

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
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<210> 3012
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<400> 3012

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3013
 <211> 35
 <212> PRT
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<220>
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<400> 3013

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 3014
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<400> 3014

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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His Asn His Asn His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
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<210> 3015
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3018
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<400> 3018

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3019
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<400> 3019

Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3020
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Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3021

<211> 35

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1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 3022

<211> 33

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3023

<211> 33

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3024

<211> 33

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<400> 3024

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1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3025

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3026

<211> 33

<212> PRT

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
20 25 30

Gly

<210> 3027

<211> 33

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<400> 3027

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 3028

<211> 33

<212> PRT

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<400> 3028

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 3029

<211> 33

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
20 25 30

Gly

<210> 3031
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<400> 3031

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3032
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<400> 3032

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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10

15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 3033

<211> 33

<212> PRT

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 3034

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<212> PRT

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 3035

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

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Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 3036
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 1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
 20 25 30

Gly

<210> 3037
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 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 3038
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
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Arg Gly

<210> 3039
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<220>
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 3040
<211> 34
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 3041
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<400> 3041

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 3042
 <211> 34
 <212> PRT
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<220>
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<400> 3042

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

<210> 3043
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3043

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

<210> 3044
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Phe Gly

<210> 3045
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 <212> PRT
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<220>
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<400> 3045

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Tyr Gly

<210> 3046
 <211> 34
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 3046

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 3047
 <211> 34
 <212> PRT
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<220>
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<400> 3047

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

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<210> 3048
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3048

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 3049
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<220>
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 3050
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 3051

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 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Arg Gly

<210> 3052
 <211> 35
 <212> PRT
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<400> 3052

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3053
 <211> 35
 <212> PRT
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<220>
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3054
 <211> 35
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<220>

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<400> 3054

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3055

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3055

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3056

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3056

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3057

<211> 35

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 3057

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3058

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3058

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3059

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3059

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 3060

<211> 35

<212> PRT

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<400> 3060

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 3061

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3061

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3062

<211> 35

<212> PRT

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<400> 3062

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3063

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 3063

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3064
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3065
<211> 35
<212> PRT
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<220>
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<400> 3065

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3066
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<212> PRT
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<400> 3066

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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10

15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 3067

<211> 36

<212> PRT

<213> Artificial Sequence

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<400> 3067

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 3068

<211> 36

<212> PRT

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<223> Antimicrobial peptide sequence

<400> 3068

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 3069

<211> 36

<212> PRT

<213> Artificial Sequence

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<400> 3069

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

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Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3070
<211> 36
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<400> 3070

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3071
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3071

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3072
<211> 36
<212> PRT
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<220>
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<400> 3072

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
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Phe Arg Phe Gly
35

<210> 3073
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3073

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3074
<211> 36
<212> PRT
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<220>
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<400> 3074

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Phe Gly
35

<210> 3075
<211> 36
<212> PRT
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<220>
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<400> 3075

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

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Leu Arg Tyr Gly
35

<210> 3076
<211> 36
<212> PRT
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<400> 3076

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3077
<211> 36
<212> PRT
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<220>
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<400> 3077

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3078
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 3078

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly

35

<210> 3079
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3079

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 3080
 <211> 36
 <212> PRT
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<220>
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<400> 3080

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 3081
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<220>
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<400> 3081

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Arg Gly
 35

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<210> 3082
 <211> 33
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 3082

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 3083
 <211> 33
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 3083

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 3084
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3084

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 3085

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<400> 3085

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 3086
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3086

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
 20 25 30

Gly

<210> 3087
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3087

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
 20 25 30

Gly

<210> 3088
 <211> 33
 <212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3088

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 3089

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

<210> 3090

<211> 33

<212> PRT

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<220>

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<400> 3090

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
20 25 30

Gly

<210> 3091

<211> 33

<212> PRT

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3092

<211> 33

<212> PRT

<213> Artificial Sequence

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1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3093

<211> 33

<212> PRT

<213> Artificial Sequence

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<400> 3093

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3094

<211> 33

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496416_PCT_ST25

<400> 3094

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3095

<211> 33

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3096

<211> 33

<212> PRT

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<400> 3096

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
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Gly

<210> 3097

<211> 34

<212> PRT

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<400> 3097

496416_PCT_ST25

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 3098
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<400> 3098

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 3099
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3099

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 3100
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3100

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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1

5

10

15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 3101
 <211> 34
 <212> PRT
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<220>
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<400> 3101

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
 20 25 30

Arg Gly

<210> 3102
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 <212> PRT
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<220>
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<400> 3102

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
 20 25 30

Phe Gly

<210> 3103
 <211> 34
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<220>
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<400> 3103

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 3104
<211> 34
<212> PRT
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<220>
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<400> 3104

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Phe Gly

<210> 3105
<211> 34
<212> PRT
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<220>
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<400> 3105

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 3106
<211> 34
<212> PRT
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<220>
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<400> 3106

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
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Arg Gly

<210> 3107
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<220>
<223> Antimicrobial peptide sequence

<400> 3107

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
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Arg Gly

<210> 3108
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<212> PRT
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<220>
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<400> 3108

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 3109
<211> 34
<212> PRT
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<220>
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<400> 3109

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 3110
 <211> 34
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<220>
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<400> 3110

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 3111
 <211> 34
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 3111

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Arg Gly

<210> 3112
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 <212> PRT
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<220>
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<400> 3112

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly

35

<210> 3113
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 <212> PRT
 <213> Artificial Sequence

<220>
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3114
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 <212> PRT
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 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 3115
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<220>
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<400> 3115

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 3116
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<400> 3116

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3117
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 <212> PRT
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<400> 3117

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3118
 <211> 35
 <212> PRT
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<400> 3118

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3119

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 3120
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<220>
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<400> 3120

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 3121
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<400> 3121

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3122
<211> 35
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496416_PCT_ST25

<213> Artificial Sequence

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<400> 3122

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3123

<211> 35

<212> PRT

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<400> 3123

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3124

<211> 35

<212> PRT

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<400> 3124

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3125

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<212> PRT

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<400> 3125

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3126

<211> 35

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<400> 3126

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 3127

<211> 36

<212> PRT

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3128

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<212> PRT

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496416_PCT_ST25

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1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3130

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<400> 3130

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3131

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<400> 3131

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3132
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<400> 3132

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

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<400> 3134

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn

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1 5 10 15
 Asn Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Phe Gly
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<210> 3135
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Tyr Gly
 35

<210> 3136
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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 20 25 30

Phe Phe Arg Gly
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<210> 3137
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496416_PCT_ST25

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
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<210> 3138
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<400> 3138

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3139
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3140
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<400> 3140

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1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
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Phe Arg Phe Gly
35

<210> 3141
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<400> 3141

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
35

<210> 3142
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<400> 3142

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1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3143
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<212> PRT
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<400> 3143

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1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3144
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Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<400> 3145

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly

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<400> 3147

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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<400> 3148

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 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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<400> 3149

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
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<210> 3150
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
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<210> 3151
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<400> 3151

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 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 3152
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 <212> PRT
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<220>
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<400> 3152

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<211> 35
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1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3154
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<400> 3154

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 3155
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<400> 3155

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 3156
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<213> Artificial Sequence

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 3157

<211> 35

<212> PRT

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<400> 3157

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3158

<211> 35

<212> PRT

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<400> 3158

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3159

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<400> 3159

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 3160

<211> 35

<212> PRT

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<400> 3160

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3161

<211> 35

<212> PRT

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<400> 3161

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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<210> 3162

<211> 35

<212> PRT

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3163

<211> 35

<212> PRT

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<400> 3163

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3164

<211> 35

<212> PRT

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<400> 3164

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 3165

<211> 35

<212> PRT

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<400> 3165

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 3166
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<400> 3166

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3167
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<400> 3167

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3168
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3168

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
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1

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10

15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3169

<211> 35

<212> PRT

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<220>

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<400> 3169

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3170

<211> 35

<212> PRT

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<400> 3170

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3171

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 3171

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

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Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 3172
 <211> 35
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<400> 3172

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3173
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3173

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3174
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 <212> PRT
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<220>
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<400> 3174

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

<210> 3175
<211> 35
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 3175

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly ser Gly ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3176
<211> 35
<212> PRT
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<220>
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<400> 3176

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly ser Gly ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3177
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<220>
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<400> 3177

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly ser Gly ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3178
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<212> PRT
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<220>
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<400> 3178

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3179
<211> 35
<212> PRT
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<220>
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<400> 3179

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 3180
<211> 35
<212> PRT
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<220>
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<400> 3180

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly

35

<210> 3181
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3181

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3182
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 <212> PRT
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<220>
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<400> 3182

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3183
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 <212> PRT
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<220>
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<400> 3183

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 3184
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 <212> PRT
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<220>
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<400> 3184

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3185
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<220>
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<400> 3185

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3186
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<220>
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<400> 3186

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 3187

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<220>
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3188
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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3188

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3189
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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3189

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3190
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 <212> PRT

<213> Artificial Sequence

<220>

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<400> 3190

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3191

<211> 35

<212> PRT

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<220>

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<400> 3191

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3192

<211> 35

<212> PRT

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<400> 3192

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3193

<211> 35

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<400> 3193

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3194

<211> 35

<212> PRT

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<220>

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 3195

<211> 35

<212> PRT

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<400> 3195

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 3196

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1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3197

<211> 35

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3198

<211> 35

<212> PRT

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<400> 3198

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3199

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<400> 3199

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3200
<211> 35
<212> PRT
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<220>
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<400> 3200

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3201
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<212> PRT
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<220>
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<400> 3201

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 3202
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3202

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser

1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210>	3203
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<220>
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210>	3204
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<220>
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210>	3205
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

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Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3206
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<220>
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<400> 3206

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3207
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<212> PRT
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<220>
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<400> 3207

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3208
<211> 35
<212> PRT
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<220>
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Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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1 5 10 15

Asn Ser Asn Ser Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Phe Gly
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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Tyr Gly
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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly

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 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
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<210> 3217
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 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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1 5 10 15

Ser Asn Ser Asn Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Phe Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Tyr Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Ser Asn Ser Asn Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Phe Arg Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
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Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Arg Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
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Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
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Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
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Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
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Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Phe Arg Gly
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<400> 3237

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
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Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
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Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
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Gly His Gly His Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Phe Gly
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Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Tyr Gly
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Phe Arg Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
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Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<400> 3243

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<400> 3244

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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<400> 3245

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<400> 3246

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<400> 3247

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

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<400> 3252

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3253
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<400> 3253

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3254
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<400> 3254

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

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<400> 3256

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3257
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<400> 3257

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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<400> 3258

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3260

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<400> 3260

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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<400> 3261

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 3262

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<400> 3262

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3263

<211> 35

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<400> 3263

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3264

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<400> 3264

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3265

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<400> 3265

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3266

<211> 35

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<400> 3266

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3267

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3268
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<400> 3268

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3269
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<400> 3269

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 3270
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<400> 3270

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His

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Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
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<400> 3271

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 3272
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<400> 3272

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<220>
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<400> 3273

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
 1 5 10 15

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Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3274
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<400> 3274

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<400> 3275

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<400> 3276

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe

Arg Arg Gly
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<210> 3277
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<220>
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<400> 3277

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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<400> 3278

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3279
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<400> 3279

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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<210> 3282
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly

35

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 1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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<210> 3284
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
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<210> 3285
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<400> 3285

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
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<210> 3286
 <211> 35
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<220>
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<400> 3286

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3287
 <211> 35
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<220>
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<400> 3287

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 3288
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<400> 3288

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 3289

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3290
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<400> 3290

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3291
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<220>
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<400> 3291

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 3292
 <211> 33
 <212> PRT

496416_PCT_ST25

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<400> 3292

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3293

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<400> 3293

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3294

<211> 33

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 3294

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3295

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<212> PRT

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<220>

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<400> 3295

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3296

<211> 33

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<223> Antimicrobial peptide sequence

<400> 3296

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
20 25 30

Gly

<210> 3297

<211> 33

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<400> 3297

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 3298

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496416_PCT_ST25

<400> 3298

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 3299

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<400> 3299

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

<210> 3300

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
20 25 30

Gly

<210> 3301

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<400> 3301

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3302
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3303
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<212> PRT
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<220>
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<400> 3303

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3304
<211> 33
<212> PRT
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<220>
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<400> 3304

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
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10

15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 3305
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3305

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 3306
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 <212> PRT
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<220>
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<400> 3306

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 1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
 20 25 30

Gly

<210> 3307
 <211> 34
 <212> PRT
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<220>
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<400> 3307

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

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Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 3308
<211> 34
<212> PRT
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<220>
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<400> 3308

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 3309
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<212> PRT
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<220>
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 3310
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<220>
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<400> 3310

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg

Phe Gly

<210> 3311
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<212> PRT
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<400> 3311

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 3312
<211> 34
<212> PRT
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<220>
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<400> 3312

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 3313
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 3313

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 3314
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3314

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Phe Gly

<210> 3315
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 <212> PRT
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<400> 3315

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
 20 25 30

Tyr Gly

<210> 3316
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<220>
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<400> 3316

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 3317
 <211> 34
 <212> PRT
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<220>
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<400> 3317

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 3318
 <211> 34
 <212> PRT
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<220>
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<400> 3318

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 3319
 <211> 34
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<400> 3319

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

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<210> 3320
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<400> 3320

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Arg Gly

<210> 3322
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<400> 3322

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3323

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<220>
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<400> 3323

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3324
 <211> 35
 <212> PRT
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<220>
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<400> 3324

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3325
 <211> 35
 <212> PRT
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<220>
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<400> 3325

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3326
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<400> 3326

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3327

<211> 35

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<400> 3327

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3328

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<400> 3328

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 3330

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<400> 3330

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 3331

<211> 35

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<400> 3331

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3332

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<212> PRT

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<400> 3332

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3333

<211> 35

<212> PRT

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<400> 3333

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3334

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<400> 3334

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3335

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<400> 3335

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<400> 3336

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 3337
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<400> 3337

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3338
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<400> 3338

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Gly Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
 20 25 30

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<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3339

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 3340

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3340

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
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<210> 3341

<211> 36

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 3341

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

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Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3342
<211> 36
<212> PRT
<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 3342

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3343
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3343

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3344
<211> 36
<212> PRT
<213> Artificial Sequence

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<400> 3344

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
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Leu Arg Phe Gly
35

<210> 3345
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3345

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Tyr Gly
35

<210> 3346
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3346

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3347
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3347

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

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Phe Phe Arg Gly
35

<210> 3348
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3348

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3349
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3349

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3350
<211> 36
<212> PRT
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly

35

<210> 3351
 <211> 36
 <212> PRT
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<400> 3351

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Arg Gly
 35

<210> 3352
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3352

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 3353
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3353

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

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<210> 3354
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3354

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 3355
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3355

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 3356
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3356

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
 20 25 30

Gly

<210> 3357

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<211> 33
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<220>
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<400> 3357

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 3358
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3358

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 3359
<211> 33
<212> PRT
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<220>
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<400> 3359

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

<210> 3360
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<212> PRT

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<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3360

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
20 25 30

Gly

<210> 3361

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3361

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3362

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3362

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3363

<211> 33

<212> PRT

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<220>

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<400> 3363

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3364

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3364

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3365

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3365

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3366

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

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<400> 3366

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
20 25 30

Gly

<210> 3367

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3367

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 3368

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3368

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 3369

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3369

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 3370
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<212> PRT
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<220>
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<400> 3370

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 3371
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3371

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 3372
<211> 34
<212> PRT
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<220>
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<400> 3372

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn

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1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210>	3373
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<220>
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<400> 3373
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210>	3374
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<220>
<223>  Antimicrobial peptide sequence
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Phe Gly

<210>	3375
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<220>
<223> Antimicrobial peptide sequence
<400> 3375
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

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Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 3376
<211> 34
<212> PRT
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<220>
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<400> 3376

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 3377
<211> 34
<212> PRT
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<220>
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<400> 3377

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 3378
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3378

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe

Arg Gly

<210> 3379
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3379

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 3380
<211> 34
<212> PRT
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<220>
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<400> 3380

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 3381
<211> 34
<212> PRT
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<220>
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<400> 3381

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Arg Gly

<210> 3382
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3382

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3383
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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3383

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3384
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3384

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly

35

<210> 3385
 <211> 35
 <212> PRT
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<220>
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<400> 3385

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3386
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 <212> PRT
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<220>
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<400> 3386

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3387
 <211> 35
 <212> PRT
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<220>
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<400> 3387

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 3388
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3388

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3389
 <211> 35
 <212> PRT
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<220>
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<400> 3389

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 3390
 <211> 35
 <212> PRT
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<400> 3390

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 3391

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<211> 35
<212> PRT
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<220>
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<400> 3391

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3392
<211> 35
<212> PRT
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<220>
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<400> 3392

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3393
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<400> 3393

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3394
<211> 35
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<400> 3394

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3395

<211> 35

<212> PRT

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<220>

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<400> 3395

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3396

<211> 35

<212> PRT

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<220>

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<400> 3396

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 3397

<211> 36

<212> PRT

<213> Artificial Sequence

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<220>

<223> Antimicrobial peptide sequence

<400> 3397

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3398

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3398

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3399

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3399

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3400

<211> 36

<212> PRT

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<400> 3400

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3401

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3401

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3402

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3402

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3403

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3403

496416_PCT_ST25

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
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Phe Arg Phe Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Phe Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Tyr Gly
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<210> 3406
<211> 36
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<400> 3406

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
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496416_PCT_ST25

1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
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<210>	3407
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
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Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

496416_PCT_ST25

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
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Phe Arg Phe Gly
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<210> 3410
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1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
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1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
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<210> 3412
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<400> 3413

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3414
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1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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<210> 3416
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1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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<210> 3417
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1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly

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<210> 3419
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 1 5 10 15

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 20 25 30

Arg Phe Gly
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<210> 3420
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 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
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<210> 3421
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 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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496416_PCT_ST25

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 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3424
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<400> 3424

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 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 3426
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
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 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 3428
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<213> Artificial Sequence

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<211> 35

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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 3430

<211> 35

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Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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1 5 10 15

Asn Gly Asn Gly Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Tyr Gly
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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<400> 3438

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3439
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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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5

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15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 3441
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<220>
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<400> 3441

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 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
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 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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 1 5 10 15

496416_PCT_ST25

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 3445
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 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Phe Arg Gly
35

<210> 3447
<211> 35
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<220>
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly ser Gly ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3448
<211> 35
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<220>
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1 5 10 15

Gly ser Gly ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly ser Gly ser Gly ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

496416_PCT_ST25

Arg Phe Gly
35

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3452
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1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

35

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 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3454
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<400> 3454

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3455
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

496416_PCT_ST25

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<400> 3456

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 3457
 <211> 35
 <212> PRT
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<220>
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<400> 3457

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3458
 <211> 35
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<220>
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<400> 3458

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3459

496416_PCT_ST25

<211> 35
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<220>
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<400> 3459

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3460
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<400> 3460

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3461
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<400> 3461

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3462
 <211> 35
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<400> 3462

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3463

<211> 35

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<400> 3463

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3464

<211> 35

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<400> 3464

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1 5 10 15

Ser Gly Ser Gly Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 3465

<211> 35

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

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<211> 35

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
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Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3468

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 3468

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3469

<211> 35

<212> PRT

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<400> 3469

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 3470

<211> 35

<212> PRT

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<400> 3470

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3471

<211> 35

<212> PRT

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<400> 3471

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

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20 25 30

Arg Arg Gly
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<210> 3472
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
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Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3473
<211> 35
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<400> 3473

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3474
<211> 35
<212> PRT
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<400> 3474

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser

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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210>	3475
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210>	3476
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

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Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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<400> 3478

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Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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<400> 3479

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Asn Ser Asn Ser Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
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 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Tyr Gly
35

<210> 3481
<211> 35
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<400> 3481

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3482
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3483
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<400> 3483

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3484
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3485
<211> 35
<212> PRT
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3486
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly

35

<210> 3487
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<220>
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<400> 3487

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 3488
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 <212> PRT
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<400> 3488

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<210> 3489
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<400> 3489

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 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 3490
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<400> 3490

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3491
 <211> 35
 <212> PRT
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<220>
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<400> 3491

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3492
 <211> 35
 <212> PRT
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<220>
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<400> 3492

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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<210> 3493

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<211> 35
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3494
 <211> 35
 <212> PRT
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<220>
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<400> 3494

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 1 5 10 15

Ser Asn Ser Asn Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 3495
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<400> 3495

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
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<210> 3496
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<400> 3496

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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3497

<211> 35

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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3498

<211> 35

<212> PRT

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<400> 3498

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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3499

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<220>

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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 3500

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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 3501

<211> 35

<212> PRT

<213> Artificial Sequence

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 3502

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496416_PCT_ST25

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1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3503

<211> 35

<212> PRT

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<220>

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3504

<211> 35

<212> PRT

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<400> 3504

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1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3505

<211> 35

<212> PRT

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<400> 3505

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3506
<211> 35
<212> PRT
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<220>
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<400> 3506

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3507
<211> 35
<212> PRT
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<220>
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<400> 3507

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3508
<211> 35
<212> PRT
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<220>
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5

10

15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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<210> 3509

<211> 35

<212> PRT

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<220>

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<400> 3509

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 3510

<211> 35

<212> PRT

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<400> 3510

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
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<210> 3511

<211> 35

<212> PRT

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

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Gly His Gly His Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210>	3512
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<220>
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210>	3513
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<220>
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<400> 3513

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210>	3514
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<220>
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

<210> 3515
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<220>
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<400> 3515

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 3516
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 3517
<211> 35
<212> PRT
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<220>
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<400> 3517

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3518
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3518

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3519
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3519

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3520
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3520

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly

35

<210> 3521
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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3521

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3522
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 <212> PRT
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<400> 3522

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3523
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3523

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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<210> 3524
 <211> 35
 <212> PRT
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<220>
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<400> 3524

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 1 5 10 15

His Gly His Gly His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 3525
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<220>
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<400> 3525

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 3526
 <211> 35
 <212> PRT
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<220>
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<400> 3526

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3527

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<211> 35
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<220>
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<400> 3527

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3528
 <211> 35
 <212> PRT
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<220>
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<400> 3528

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3529
 <211> 35
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<220>
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<400> 3529

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3530
 <211> 35
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<400> 3530

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3531

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 3531

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 3532

<211> 35

<212> PRT

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<400> 3532

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3533

<211> 35

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3534

<211> 35

<212> PRT

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<400> 3534

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 3535

<211> 35

<212> PRT

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<400> 3535

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 3536

<211> 35

<212> PRT

<213> Artificial Sequence

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496416_PCT_ST25

<400> 3536

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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<210> 3537

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 3537

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3538

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 3538

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3539

<211> 35

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<400> 3539

496416_PCT_ST25

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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<210> 3540
<211> 35
<212> PRT
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<220>
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<400> 3540

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 3541
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3541

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3542
<211> 35
<212> PRT
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<220>
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<400> 3542

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His

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5

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Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3543

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3543

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3544

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3544

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3545

<211> 35

<212> PRT

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

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Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3546
 <211> 35
 <212> PRT
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<220>
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<400> 3546

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 3547
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<400> 3547

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3548
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3548

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
35

<210> 3549
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3549

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3550
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3550

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3551
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<212> PRT
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<220>
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<400> 3551

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3552
<211> 35
<212> PRT
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<220>
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<400> 3552

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3553
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3553

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3554
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly

35

<210> 3555
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3555

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 3556
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3556

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3557
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3557

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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<210> 3558
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3558

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3559
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3559

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3560
 <211> 35
 <212> PRT
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<220>
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<400> 3560

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3561

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<211> 35
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<213> Artificial Sequence

<220>
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<400> 3561

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 3562
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3562

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3563
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3563

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3564
<211> 33
<212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3564

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3565

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3565

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3566

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3566

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
20 25 30

Gly

<210> 3567

<211> 33

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

<223> Antimicrobial peptide sequence

<400> 3567

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 3568

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3568

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 3569

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3569

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

<210> 3570

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

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<400> 3570

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
20 25 30

Gly

<210> 3571

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3571

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3572

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3572

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3573

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3573

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3574
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3574

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3575
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3575

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3576
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3576

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly

1

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10

15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
 20 25 30

Gly

<210> 3577
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3577

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 3578
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3578

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 3579
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3579

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

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Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 3580
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3580

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 3581
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3581

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 3582
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3582

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
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Phe Gly

<210> 3583
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3583

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 3584
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3584

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Phe Gly

<210> 3585
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3585

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 3586
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3586

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 3587
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3587

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 3588
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3588

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 3589
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3589

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 3590
 <211> 34
 <212> PRT
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<220>
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<400> 3590

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 3591
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3591

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Arg Gly

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<210> 3592
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3592

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3593
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3593

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3594
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3594

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3595

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<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3595

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3596
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3596

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3597
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3597

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3598
<211> 35
<212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3598

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3599

<211> 35

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 3599

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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<210> 3600

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 3601

<211> 35

<212> PRT

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496416_PCT_ST25

<220>

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<400> 3601

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3602

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3602

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3603

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3603

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3604

<211> 35

<212> PRT

<213> Artificial Sequence

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496416_PCT_ST25

<400> 3604

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3605

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 3605

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3606

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3606

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 3607

<211> 36

<212> PRT

<213> Artificial Sequence

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<400> 3607

496416_PCT_ST25

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3608
<211> 36
<212> PRT
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<220>
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<400> 3608

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3609
<211> 36
<212> PRT
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<220>
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<400> 3609

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3610
<211> 36
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 3610

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly

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5

10

15

Gly Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 3611

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3611

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Phe Arg Gly
 35

<210> 3612

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3612

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 3613

<211> 36

<212> PRT

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<220>

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<400> 3613

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

496416_PCT_ST25

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3614
<211> 36
<212> PRT
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<220>
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<400> 3614

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Phe Gly
35

<210> 3615
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3615

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Tyr Gly
35

<210> 3616
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3616

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
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Phe Phe Arg Gly
35

<210> 3617
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3617

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3618
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3618

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3619
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3619

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

496416_PCT_ST25

Phe Arg Phe Gly
35

<210> 3620
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3620

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3621
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 3621

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
35

<210> 3622
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3622

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

496416_PCT_ST25

<210> 3623
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3623

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 3624
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3624

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 3625
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3625

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

496416_PCT_ST25

<210> 3626
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3626

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
 20 25 30

Gly

<210> 3627
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3627

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
 20 25 30

Gly

<210> 3628
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3628

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
 20 25 30

Gly

<210> 3629

496416_PCT_ST25

<211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3629

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
 20 25 30

Gly

<210> 3630
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3630

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
 20 25 30

Gly

<210> 3631
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3631

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 3632
 <211> 33
 <212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3632

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3633

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3633

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3634

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3634

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3635

<211> 33

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

<223> Antimicrobial peptide sequence

<400> 3635

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3636

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3636

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
20 25 30

Gly

<210> 3637

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3637

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 3638

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 3638

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 3639

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3639

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 3640

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3640

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 3641

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3641

496416_PCT_ST25

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 3642
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3642

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 3643
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3643

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 3644
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3644

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn

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Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 3648
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3648

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 3649
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3649

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 3650
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3650

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg

Phe Gly

<210> 3651
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3651

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Arg Gly

<210> 3652
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3652

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3653
 <211> 35
 <212> PRT
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<220>
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<400> 3653

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
35

<210> 3654
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3654

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3655
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3655

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3656
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3656

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly

35

<210> 3657
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3657

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3658
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3658

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3659
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3659

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

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<210> 3660
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3660

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 3661
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3661

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3662
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3662

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3663

496416_PCT_ST25

<211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3663

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3664
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3664

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3665
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<400> 3665

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 3666
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 <212> PRT

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<223> Antimicrobial peptide sequence

<400> 3666

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 3667

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3667

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3668

<211> 36

<212> PRT

<213> Artificial Sequence

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<223> Antimicrobial peptide sequence

<400> 3668

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3669

<211> 36

<212> PRT

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<220>

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<400> 3669

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3670

<211> 36

<212> PRT

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<223> Antimicrobial peptide sequence

<400> 3670

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3671

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3671

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3672

<211> 36

<212> PRT

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496416_PCT_ST25

<400> 3672

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3673

<211> 36

<212> PRT

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<400> 3673

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3674

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3674

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Phe Gly
35

<210> 3675

<211> 36

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<220>

<223> Antimicrobial peptide sequence

<400> 3675

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Tyr Gly
35

<210> 3676
<211> 36
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 3676

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3677
<211> 36
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 3677

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3678
<211> 36
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<220>
<223> Antimicrobial peptide sequence

<400> 3678

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
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1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
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<210>	3679
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<400> 3679

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210>	3680
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<400> 3680

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210>	3681
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<400> 3681

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

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Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Arg Gly
35

<210> 3682
<211> 35
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<220>
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<400> 3682

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3683
<211> 35
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<220>
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<400> 3683

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3684
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

<210> 3685
<211> 35
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<220>
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<400> 3685

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3686
<211> 35
<212> PRT
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<220>
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<400> 3686

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3687
<211> 35
<212> PRT
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<220>
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<400> 3687

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3688
<211> 35
<212> PRT
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<220>
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<400> 3688

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3689
<211> 35
<212> PRT
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<220>
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<400> 3689

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 3690
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<212> PRT
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<400> 3690

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly

35

<210> 3691
 <211> 35
 <212> PRT
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<220>
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<400> 3691

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3692
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3692

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3693
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3693

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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<210> 3694
 <211> 35
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 3694

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3695
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3695

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3696
 <211> 35
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 3696

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
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<210> 3697

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<211> 35
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<220>
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<400> 3697

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3698
<211> 35
<212> PRT
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<220>
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<400> 3698

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3699
<211> 35
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<220>
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<400> 3699

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3700
<211> 35
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<213> Artificial Sequence

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<400> 3700

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3701

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3701

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3702

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3702

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3703

<211> 35

<212> PRT

<213> Artificial Sequence

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<220>

<223> Antimicrobial peptide sequence

<400> 3703

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3704

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3704

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 3705

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3705

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 3706

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 3706

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3707

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3707

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3708

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3708

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3709

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3709

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3710
<211> 35
<212> PRT
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<220>
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<400> 3710

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3711
<211> 35
<212> PRT
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<220>
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<400> 3711

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 3712
<211> 35
<212> PRT
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<220>
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<400> 3712

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser

1

5

10

15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3713

<211> 35

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 3713

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3714

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3714

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3715

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3715

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

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Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3716
 <211> 35
 <212> PRT
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<220>
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<400> 3716

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3717
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3717

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3718
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3718

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
35

<210> 3719
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3719

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly ser Gly ser Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 3720
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3720

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly ser Gly ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 3721
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3721

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly ser Gly ser Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3722
<211> 35
<212> PRT
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<220>
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<400> 3722

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3723
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 3723

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3724
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3724

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly

35

<210> 3725
 <211> 35
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<220>
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<400> 3725

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3726
 <211> 35
 <212> PRT
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<220>
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<400> 3726

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 3727
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3727

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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<210> 3728
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3728

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<400> 3730

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
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Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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<211> 35
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
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<210> 3732
 <211> 35
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<400> 3732

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3733
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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<210> 3734
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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<210> 3735

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1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 3736

<211> 35

<212> PRT

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3737

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3738

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
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Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3739

<211> 35

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 3740

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Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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<210> 3741

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 3742

<211> 35

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3743

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 3745
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 3746
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1 5 10 15
Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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<210>	3747
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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210>	3748
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

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1 5 10 15

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Asn Ser Asn Ser Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 3750
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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 3751
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3752
<211> 35
<212> PRT
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3754
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<212> PRT
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3755
<211> 35
<212> PRT
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<400> 3755

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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

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Arg Phe Gly
35

<210> 3756
<211> 35
<212> PRT
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<220>
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 3757
<211> 35
<212> PRT
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<220>
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3758
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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly

35

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 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3760
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 <212> PRT
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3761
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<220>
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 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

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 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3763
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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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<210> 3764
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 1 5 10 15

Ser Asn Ser Asn Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 3765

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 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 3766
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3767
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<400> 3767

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3768
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496416_PCT_ST25

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3769

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3770

<211> 35

<212> PRT

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3771

<211> 35

<212> PRT

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<220>

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<400> 3771

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
35

<210> 3772

<211> 35

<212> PRT

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<400> 3772

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3773

<211> 35

<212> PRT

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<220>

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3774

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<212> PRT

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3775

<211> 35

<212> PRT

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3776

<211> 35

<212> PRT

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3777

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<400> 3777

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3778
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3779
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<400> 3779

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 3780
<211> 35
<212> PRT
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5

10

15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 3781

<211> 35

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<400> 3781

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Gly His Gly His Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3782

<211> 35

<212> PRT

<213> Artificial Sequence

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 1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3783

<211> 35

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<400> 3783

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

496416_PCT_ST25

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210>	3784
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1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210>	3785
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<400> 3785

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1 5 10 15

Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210>	3786
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<213>	Artificial sequence

<220>
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<400> 3786

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Arg Gly
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<210> 3787
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3787

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3788
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<212> PRT
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<220>
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<400> 3788

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1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3789
<211> 35
<212> PRT
<213> Artificial Sequence

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<400> 3789

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 3790
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<220>
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<400> 3790

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3791
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<220>
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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3792
<211> 35
<212> PRT
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<400> 3792

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly

35

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3794
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3794

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 3795
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3795

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
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<210> 3796
 <211> 35
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 3796

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3797
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3797

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3798
 <211> 35
 <212> PRT
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<220>
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<400> 3798

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3799

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<211> 35
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<220>
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<400> 3799

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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<210> 3800
 <211> 35
 <212> PRT
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<400> 3800

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3801
 <211> 35
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<400> 3801

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
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<210> 3802
 <211> 35
 <212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

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<400> 3802

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3803

<211> 35

<212> PRT

<213> Artificial Sequence

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<400> 3803

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3804

<211> 35

<212> PRT

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<400> 3804

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 3805

<211> 35

<212> PRT

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<220>

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<400> 3805

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3806

<211> 35

<212> PRT

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<400> 3806

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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<210> 3807

<211> 35

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<220>

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<400> 3807

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210> 3808

<211> 35

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496416_PCT_ST25

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Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210> 3809

<211> 35

<212> PRT

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<220>

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<400> 3809

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 3810

<211> 35

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 3810

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 3811

<211> 35

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<400> 3811

496416_PCT_ST25

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3812
<211> 35
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<220>
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<400> 3812

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3813
<211> 35
<212> PRT
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<220>
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<400> 3813

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3814
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<220>
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<400> 3814

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His

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5

10

15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3815

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3815

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3816

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3816

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp His
 1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 3817

<211> 35

<212> PRT

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<220>

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<400> 3817

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

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His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3818
<211> 35
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<220>
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<400> 3818

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3819
<211> 35
<212> PRT
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<220>
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<400> 3819

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3820
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3820

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

<210> 3821
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3821

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3822
<211> 35
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<220>
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<400> 3822

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3823
<211> 35
<212> PRT
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<220>
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<400> 3823

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3824
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3824

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 3825
<211> 35
<212> PRT
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<220>
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<400> 3825

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 3826
<211> 35
<212> PRT
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<220>
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<400> 3826

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
1 5 10 15

His Asn His Asn His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

35

<210> 3827
 <211> 35
 <212> PRT
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<220>
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<400> 3827

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3828
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3828

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3829
 <211> 35
 <212> PRT
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<220>
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<400> 3829

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

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<210> 3830
 <211> 35
 <212> PRT
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<220>
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<400> 3830

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3831
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 <212> PRT
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<220>
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<400> 3831

Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe Gly Asp Asn
 1 5 10 15

His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

<210> 3832
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3832

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 3833

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<211> 33
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 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3833

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
 20 25 30

Gly

<210> 3834
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3834

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 3835
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3835

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 3836
 <211> 33
 <212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3836

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
20 25 30

Gly

<210> 3837

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3837

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 3838

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3838

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
20 25 30

Gly

<210> 3839

<211> 33

<212> PRT

<213> Artificial Sequence

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<220>

<223> Antimicrobial peptide sequence

<400> 3839

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
20 25 30

Gly

<210> 3840

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3840

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
20 25 30

Gly

<210> 3841

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3841

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3842

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 3842

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3843

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3843

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3844

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3844

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3845

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3845

496416_PCT_ST25

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3846
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3846

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
20 25 30

Gly

<210> 3847
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3847

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 3848
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3848

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
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10

15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 3849

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3849

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 3850

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3850

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 3851

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3851

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

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Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 3852
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3852

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 3853
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3853

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 3854
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3854

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
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Phe Gly

<210> 3855
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3855

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 3856
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3856

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 3857
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3857

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 3858
 <211> 34
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 3858

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe
 20 25 30

Arg Gly

<210> 3859
 <211> 34
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<220>
 <223> Antimicrobial peptide sequence

<400> 3859

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

<210> 3860
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3860

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Phe Gly

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<210> 3861
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3861

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
 20 25 30

Arg Gly

<210> 3862
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3862

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3863
 <211> 35
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<220>
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<400> 3863

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

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<210> 3864
 <211> 35
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<220>
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<400> 3864

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3865
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3865

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3866
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 <212> PRT
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<220>
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<400> 3866

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3867

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<211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antimicrobial peptide sequence

<400> 3867

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3868
 <211> 35
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 3868

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3869
 <211> 35
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 3869

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 3870
 <211> 35
 <212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3870

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 3871

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3871

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3872

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3872

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3873

<211> 35

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<220>

<223> Antimicrobial peptide sequence

<400> 3873

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3874

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3874

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3875

<211> 35

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 3875

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3876

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

496416_PCT_ST25

<400> 3876

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 3877

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3877

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3878

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3878

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3879

<211> 36

<212> PRT

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<220>

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<400> 3879

496416_PCT_ST25

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3880
<211> 36
<212> PRT
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<220>
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<400> 3880

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3881
<211> 36
<212> PRT
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<220>
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<400> 3881

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3882
<211> 36
<212> PRT
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<220>
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<400> 3882

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly

1

5

10

15

Gly Gly Gly Gly Gly Gly Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
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<210> 3883

<211> 36

<212> PRT

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<220>

<223> Antimicrobial peptide sequence

<400> 3883

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Phe Arg Phe Gly
 35

<210> 3884

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3884

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
 20 25 30

Leu Arg Phe Gly
 35

<210> 3885

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3885

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

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Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
20 25 30

Leu Arg Tyr Gly
35

<210> 3886
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3886

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3887
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3887

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
35

<210> 3888
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3888

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
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Phe Phe Arg Gly
35

<210> 3889
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3889

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3890
<211> 36
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<400> 3890

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3891
<211> 36
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 3891

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

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Phe Arg Arg Gly
35

<210> 3892
<211> 33
<212> PRT
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<220>
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<400> 3892

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3893
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence
<400> 3893

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3894
<211> 33
<212> PRT
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<220>
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<400> 3894

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

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<210> 3895
 <211> 33
 <212> PRT
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<220>
 <223> Antimicrobial peptide sequence

<400> 3895

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
 20 25 30

Gly

<210> 3896
 <211> 33
 <212> PRT
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<220>
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<400> 3896

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe Arg
 20 25 30

Gly

<210> 3897
 <211> 33
 <212> PRT
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<220>
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<400> 3897

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
 20 25 30

Gly

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<210> 3898
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<220>
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<400> 3898

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg Phe
 20 25 30

Gly

<210> 3899
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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 3899

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Phe
 20 25 30

Gly

<210> 3900
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<220>
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<400> 3900

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
 1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg Tyr
 20 25 30

Gly

<210> 3901

496416_PCT_ST25

<211> 33
<212> PRT
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<220>
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<400> 3901

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3902
<211> 33
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 3902

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3903
<211> 33
<212> PRT
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<220>
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<400> 3903

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Phe Arg
20 25 30

Gly

<210> 3904
<211> 33
<212> PRT

496416_PCT_ST25

<213> Artificial Sequence

<220>

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<400> 3904

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3905

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3905

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg Phe
20 25 30

Gly

<210> 3906

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3906

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg
20 25 30

Gly

<210> 3907

<211> 34

<212> PRT

<213> Artificial Sequence

496416_PCT_ST25

<220>

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<400> 3907

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 3908

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3908

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Phe
20 25 30

Arg Gly

<210> 3909

<211> 34

<212> PRT

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<220>

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<400> 3909

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 3910

<211> 34

<212> PRT

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<220>

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<400> 3910

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 3911

<211> 34

<212> PRT

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<220>

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<400> 3911

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Phe
20 25 30

Arg Gly

<210> 3912

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Antimicrobial peptide sequence

<400> 3912

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 3913

<211> 34

<212> PRT

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<400> 3913

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe Arg
20 25 30

Phe Gly

<210> 3914
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3914

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Phe Gly

<210> 3915
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3915

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu Arg
20 25 30

Tyr Gly

<210> 3916
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3916

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn

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1	5	10	15
Asn	Asn	Asn	Asn
	Gly	Leu	Ala
		Trp	Ile
			Leu
			Leu
			Arg
			Trp
			Leu
			Phe
			Phe

Arg Gly

<210> 3917
 <211> 34
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 <220>
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 <400> 3917

Gly	Leu	Pro	Trp	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Arg	Arg	Gly	Asp	Asn
1				5					10					15	
Asn	Asn	Asn	Asn	Gly	Leu	Val	Arg	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Phe
				20				25					30		

Arg Gly

<210> 3918
 <211> 34
 <212> PRT
 <213> Artificial Sequence
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 <223> Antimicrobial peptide sequence
 <400> 3918

Gly	Leu	Pro	Trp	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Arg	Arg	Gly	Asp	Asn
1				5					10					15	
Asn	Asn	Asn	Asn	Gly	Leu	Leu	Arg	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Phe
				20				25					30		

Arg Gly

<210> 3919
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 <220>
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 <400> 3919

Gly	Leu	Pro	Trp	Ile	Leu	Leu	Arg	Trp	Leu	Phe	Arg	Arg	Gly	Asp	Asn
1				5					10					15	

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Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 3920
<211> 34
<212> PRT
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<220>
<223> Antimicrobial peptide sequence

<400> 3920

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
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Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Phe Gly

<210> 3921
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3921

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg
20 25 30

Arg Gly

<210> 3922
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Antimicrobial peptide sequence

<400> 3922

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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20 496416_PCT_ST25 30
25

Phe Arg Gly
35

<210> 3923
<211> 35
<212> PRT
<213> Artificial Sequence

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Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
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Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

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Arg Phe Gly
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Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly

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Arg Phe Gly
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<210> 3930
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Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
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<210> 3931
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Asn Asn Asn Asn Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

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Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

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1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
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Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
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<210> 3940

<211> 36

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
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Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
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1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
20 25 30

Phe Phe Arg Gly
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Asn Asn Asn Asn Asn Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu
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Phe Arg Phe Gly
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Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
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Phe Arg Phe Gly
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Asn Asn Asn Asn Asn Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu
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Leu Arg Phe Gly
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Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu
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Leu Arg Tyr Gly
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Phe Phe Arg Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
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<400> 3948

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu
20 25 30

Phe Phe Arg Gly
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<210> 3949
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1 5 10 15

Asn Asn Asn Asn Asn Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu
20 25 30

Phe Arg Phe Gly
35

<210> 3950
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Phe Arg Phe Gly
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Phe Arg Arg Gly
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<220>
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Phe Arg Gly
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<220>
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Phe Arg Gly
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<210>	3954
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Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

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Arg Phe Gly
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<210>	3956
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Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Phe Arg Gly
35

<210> 3957
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<220>
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<400> 3957

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
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Gly Asn Gly Asn Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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Arg Phe Gly
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1 5 10 15

Gly Asn Gly Asn Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

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Arg Phe Gly
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<210> 3960
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1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 3961
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1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3962
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Gly Asn Gly Asn Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly

35

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Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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 1 5 10 15

Gly Asn Gly Asn Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
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<210> 3967
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 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3968
 <211> 35
 <212> PRT
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<220>
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<400> 3968

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 1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3969

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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3970
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3971
<211> 35
<212> PRT
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<220>
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<400> 3971

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3973

<211> 35

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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3974

<211> 35

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1 5 10 15

Asn Gly Asn Gly Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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<210> 3975

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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
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<210> 3976

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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 3977

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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3979

<211> 35

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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3980

<211> 35

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<220>

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1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 3981

<211> 35

<212> PRT

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<220>

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<400> 3981

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Asn Gly Asn Gly Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 3982
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Ser
1 5 10 15

Gly ser Gly ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3983
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<400> 3983

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Ser
1 5 10 15

Gly ser Gly ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3984
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<220>
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<400> 3984

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Ser
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Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3985

<211> 35

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<400> 3985

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 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
 35

<210> 3986

<211> 35

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 1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 3987

<211> 35

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<400> 3987

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 1 5 10 15

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Gly ser Gly ser Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

<210> 3988
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Arg Phe Gly
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 1 5 10 15

Gly ser Gly ser Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Phe Gly
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<400> 3990

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Ser
 1 5 10 15

Gly ser Gly ser Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Tyr Gly
35

<210> 3991
<211> 35
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<400> 3991

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Ser
1 5 10 15

Gly ser Gly ser Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3992
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<400> 3992

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Ser
1 5 10 15

Gly ser Gly ser Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 3993
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<400> 3993

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Ser
1 5 10 15

Gly ser Gly ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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<400> 3996

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1 5 10 15

Gly Ser Gly Ser Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly

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<210> 3997
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<400> 3997

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
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Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<400> 3998

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
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Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
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Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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<400> 4001

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 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
 35

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<400> 4002

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
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Ser Gly Ser Gly Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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<210> 4004
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<400> 4004

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 4005
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<400> 4005

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
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<210> 4006
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
35

<210> 4007

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<400> 4007

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
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Ser Gly Ser Gly Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 4008

<211> 35

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<400> 4008

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
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Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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<210> 4009

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
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Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
1 5 10 15

Ser Gly Ser Gly Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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<210> 4011

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
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Ser Gly Ser Gly Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 4012

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496416_PCT_ST25

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Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<210> 4013

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Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<210> 4014

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Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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<210> 4016
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<220>
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<400> 4016

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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 4017
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<212> PRT
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<220>
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<400> 4017

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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 4018
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<212> PRT
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<220>
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<400> 4018

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1 5 10 15
Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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<210>	4019
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1 5 10 15

Asn Ser Asn Ser Asn Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Asn Ser Asn Ser Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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<400> 4022

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Asn Ser Asn Ser Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<210> 4023
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<400> 4023

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Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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<400> 4024

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Ser
 1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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<210> 4025
<211> 35
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<220>
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<400> 4025

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Ser
1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 4026
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<400> 4026

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1 5 10 15

Asn Ser Asn Ser Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 4029
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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 4030
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Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly

35

<210> 4031
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Phe Arg Gly
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<210> 4032
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
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<210> 4033
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 <212> PRT
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<400> 4033

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
 20 25 30

Arg Phe Gly
 35

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Phe Gly
 35

<210> 4035
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<220>
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<400> 4035

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
 20 25 30

Arg Tyr Gly
 35

<210> 4036
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 <212> PRT
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<400> 4036

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
 1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 4037

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<211> 35
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 4038
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<212> PRT
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<400> 4038

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 4039
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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 4040
<211> 35
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496416_PCT_ST25

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1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 4041

<211> 35

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Asn
1 5 10 15

Ser Asn Ser Asn Ser Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Arg Gly
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<210> 4042

<211> 35

<212> PRT

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<400> 4042

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 4043

<211> 35

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<220>

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<400> 4043

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1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 4044

<211> 35

<212> PRT

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<400> 4044

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 4045

<211> 35

<212> PRT

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<220>

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<400> 4045

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
35

<210> 4046

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496416_PCT_ST25

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
35

<210> 4047

<211> 35

<212> PRT

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<220>

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<400> 4047

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 4048

<211> 35

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<213> Artificial Sequence

<220>

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<400> 4048

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
35

<210> 4049

<211> 35

<212> PRT

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<400> 4049

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Phe Gly
35

<210> 4050
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<400> 4050

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
20 25 30

Arg Tyr Gly
35

<210> 4051
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<212> PRT
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<220>
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<400> 4051

Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp His
1 5 10 15

Gly His Gly His Gly Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
35

<210> 4052
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<400> 4052

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Gly His Gly His Gly Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
 35

<210> 4053

<211> 35

<212> PRT

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp His
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Gly His Gly His Gly Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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Arg Phe Gly
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Gly His Gly His Gly Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
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Arg Arg Gly
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His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
 1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
35

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1 5 10 15

His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Phe Arg Gly
35

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His Gly His Gly His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp Gly
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His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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His Gly His Gly His Ser Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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Arg Phe Gly

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His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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His Gly His Gly His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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His Gly His Gly His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Phe Gly
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His Gly His Gly His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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 1 5 10 15

His Gly His Gly His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp His
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Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Phe Arg Gly
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1 5 10 15

Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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<210> 4075

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Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 4076

<211> 35

<212> PRT

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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp His
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Asn His Asn His Asn Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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<210> 4079

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Arg Phe Gly
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<210> 4080

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<212> PRT

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20 25 30

Arg Tyr Gly
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<210> 4081

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Asn His Asn His Asn Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp His
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Asn His Asn His Asn Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe Arg Arg Gly Asp His
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Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 4085
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Asn His Asn His Asn Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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<210> 4086
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<400> 4086

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1 5 10 15

Asn His Asn His Asn Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

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His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

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1 5 10 15

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His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
20 25 30

Arg Phe Gly
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His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Phe Arg Gly
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His Asn His Asn His Gly Leu Ala Arg Ile Leu Leu Arg Leu Leu Phe
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Arg Phe Gly
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His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Phe
20 25 30

Arg Phe Gly
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Arg Phe Gly
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His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Leu Leu Leu
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His Asn His Asn His Gly Leu Ala Trp Ile Leu Leu Arg Trp Leu Phe
20 25 30

Phe Arg Gly
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His Asn His Asn His Gly Leu Val Arg Ile Leu Leu Arg Trp Leu Phe
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Phe Arg Gly
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His Asn His Asn His Gly Leu Leu Arg Ile Leu Leu Arg Trp Leu Phe
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Arg Phe Gly
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His Asn His Asn His Gly Leu Pro Trp Ile Leu Leu Arg Trp Leu Phe
 20 25 30

Arg Arg Gly
 35

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