

SEQUENCE LISTING

<110> Justus-Liebig-Universität Gießen

<120> A new antibiotic selectively kills Gram-negative pathogens

<130> TM1077

<150> EP19210353.9

<151> 2019-11-20

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<213> Photorhabdus sp.

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<223> Photorhabdus_namnaonensis_darE_codon-optimized

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<211> 177

<212> DNA

<213> Photorhabdus sp.

<220>

<223> Photorhabdus_namnaonensis_darA_codon-optimized

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ccgaaaatcc cggaatcac cgcttggaac tggctaaaat ctttccagga aatctaa	177

<210> 27
<211> 177
<212> DNA
<213> Pseudoalteromonas luteoviolacea

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<223> Pseudoalteromonas_luteoviolacea_darA_codon-optimized

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<211> 1518

<212> DNA

<213> Pseudoalteromonas luteoviolacea

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<223> Pseudoalteromonas_luteoviolacea_Darobactin-halogenase_codon-optimized

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<210> 32

<211> 58

<212> PRT

<213> Photorhabdus

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<223> Photorhabdus khanii DSM3369

<400> 32

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20 25 30
Ala Leu Asn Glu Leu Ser Asn Lys Pro Lys Ile Pro Glu Ile Thr Ala
35 40 45
Trp Asn Trp Ser Lys Ser Phe Gln Glu Ile
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<210> 33

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<212> PRT

<213> Photorhabdus

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<223> Photorhabdus australis PB68.1

<400> 33

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Ser Leu Ala Ala Ser Phe Lys Glu Thr Glu Leu Ser Ile Thr Glu Lys
20 25 30
Ala Leu Asn Glu Leu Ser Ser Lys Pro Lys Ile Pro Glu Ile Thr Ala
35 40 45
Trp Asn Trp Ser Lys Ser Phe Gln Glu Ile
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<210> 34

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<213> Photorhabdus

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<223> Photorhabdus laumondii BOJ-47

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1 5 10 15
Ser Leu Ala Ala Ser Phe Lys Asp Thr Glu Leu Ser Ile Thr Glu Arg
 20 25 30
Ala Leu Asp Glu Leu Asn Asn Lys Pro Lys Ile Pro Glu Ile Thr Ala
 35 40 45
Trp Asn Trp Ser Lys Ser Phe Gln Glu Ile
 50 55

<210> 35

<211> 66

<212> PRT

<213> *Yersinia frederiksenii*

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<223> *Yersinia frederiksenii* ATCC33641

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 20 25 30
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Asp Ser Asp Asn Lys Ile Thr Ala Trp Asn Trp Ser Lys Ser Phe Thr
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Gln Gln
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<210> 36

<211> 55

<212> PRT

<213> *Vibrio tasmaniensis*

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<223> *Vibrio tasmaniensis* 10N.222.51.A7

<400> 36

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 20 25 30
Asp Gln Glu Gln Val Asn Ser Ile Asn Ile Ala Pro Pro Ile Thr Ala
 35 40 45
Trp Asn Trp Ser Lys Ser Phe
 50 55

<210> 37
<211> 58
<212> PRT
<213> Pseudoalteromonas luteoviolacea

<220>
<223> Pseudoalteromonas luteoviolacea S4054

<400> 37
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 20 25 30
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 35 40 45
Ala Trp Asn Trp Ser Lys Ser Phe Glu Lys
 50 55