

SEQUENCE LISTING

<110> CHUGAI SEIYAKU KABUSHIKI KAISHA

<120> METHOD FOR PRODUCING PEPTIDES

<130> C1-A1920P

<150> JP 2019-224297

<151> 2019-12-12

<160> 49

<170> PatentIn version 3.5

<210> 1

<211> 70

<212> PRT

<213> Escherichia coli

<400> 1

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Ser	Cys	Gly	Asn	Val	Met	Lys	Ile	Arg	Ser	Thr	Val	Gly	His	Asp	Leu
			20					25					30		

Asn	Leu	Asp	Val	Cys	Ser	Lys	Cys	His	Pro	Phe	Phe	Thr	Gly	Lys	Gln
		35					40					45			

Arg	Asp	Val	Ala	Thr	Gly	Gly	Arg	Val	Asp	Arg	Phe	Asn	Lys	Arg	Phe
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Asn	Ile	Pro	Gly	Ser	Lys
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<210> 2

<211> 62

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<213> Artificial Sequence

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<223> L31 short

<400> 2

Met Lys Lys Asp Ile His Pro Lys Tyr Glu Glu Ile Thr Ala Ser Cys
1 5 10 15

Ser Cys Gly Asn Val Met Lys Ile Arg Ser Thr Val Gly His Asp Leu
20 25 30

Asn Leu Asp Val Cys Ser Lys Cys His Pro Phe Phe Thr Gly Lys Gln
35 40 45

Arg Asp Val Ala Thr Gly Gly Arg Val Asp Arg Phe Asn Lys
50 55 60

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<211> 72

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cactaaaggg cg 72

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cactataggg ctc 73

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 ccccuagggg acgc 74

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 ccccuagggg acgc 74

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 uccggccccc gcaac 75

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 gauuggu 67

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tggtttttaag attattccga ttggt 85

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tggtttttaag attattccga ttggt 85

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<222> (2)..(2)

<223> Xaa = MeSer(tBuOH)

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<222> (3)..(3)

<223> Xaa = MePhe

<220>

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<222> (7)..(7)

<223> Xaa = MePhe

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<223> Xaa = BODIPYFL-4-AMF

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1 5 10

<210> 15
<211> 11
<212> PRT
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<223> Xaa = MePhe

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<400> 15

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1 5 10

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<223> Xaa = BODIPYFL-4-AMF

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<213> Artificial Sequence

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<400> 17

Phe	Thr	Ile	Phe	Pro	Gly	Phe	Ile	Ile	Thr	Thr	Gly	Thr	Gly	Thr	Gly
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Ala

<210> 18
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 ctaaagggc 69

<210> 19
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 ctaaagggc 69

<210> 20
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 ctaaagggc 69

<210> 21
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 ctaaagggc 69

<210> 22
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 <223> Forward Primer for L31(1-47)

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 ctaaagggc 69

 <210> 23
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 ctaaagggc 69

 <210> 24
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 ctaaagggc 69

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 <223> Forward Primer for L31(1-67)

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 ctaaagggc 69

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 cactatag 68

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 tggttttaag attattccga ttggt 85

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 gauuggu 67

<210> 29

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<223> Xaa = MeG

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<223> Xaa = MeF

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<223> Xaa = MeF

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<222> (7)..(7)
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<223> Xaa = Bdp4AMF

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<223> Xaa = MeF

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<223> Xaa = MeF

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<223> Xaa = Bdp4AMF

<400> 32

Xaa Xaa Ile Ile Gly Xaa Xaa Ile Ile Pro Ile Gly
1 5 10

<210> 33

<211> 12
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<222> (7)..(7)
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<400> 33

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1 5 10

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<223> Xaa = Bdp4AMF

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Xaa	Ile	Ile	Gly	Xaa	Xaa	Ile	Ile	Pro	Ile	Gly
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<222> (2)..(2)

<223> Xaa = Nle, S3F5MePyr, SPh2Cl, I, T, or L

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<222> (3)..(3)

<223> Xaa = MeF

<220>

<221> MISC_FEATURE

<222> (7)..(7)

<223> Xaa = MeF

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<221> MISC_FEATURE

<222> (8)..(8)

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<400> 36

Xaa Xaa Xaa Ile Ile Gly Xaa Xaa Ile Ile Pro Ile Gly

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5

10

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MeStBuOH, or L

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<223> Xaa = MeF

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<400> 37

Xaa Xaa Xaa Ile Ile Gly Xaa Xaa Ile Ile Pro Ile Gly
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MeStBuOH, or L

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Xaa Xaa Xaa Ile Ile Gly Xaa Xaa Ile Ile Pro Ile Gly
1 5 10

<210> 39
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<222> (2)..(2)
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G, I, T, MeStBuOH, or L

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P, T, MeStBuOH, dA, or L

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<223> Xaa = MeF

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<222> (8)..(8)

<223> Xaa = Bdp4AMF

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Xaa Thr Xaa Ile Ile Gly Xaa Xaa Ile Ile Pro Ile Gly
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<210> 41

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<212> PRT

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<223> An artificially synthesized peptide sequence

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 <222> (3)..(3)
 <223> Xaa = Nle, MeG, MeF, S3F5MePyr, Pic(2), MeHph, MeA3Pyr, SPh2Cl, G, I, P, T, MeStBuOH, dA, or L

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 <223> Xaa = MeF

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 <221> MISC_FEATURE
 <222> (8)..(8)
 <223> Xaa = Bdp4AMF

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Xaa	Thr	Xaa	Ile	Ile	Gly	Xaa	Xaa	Ile	Ile	Pro	Ile	Gly
1				5					10			

<210> 42
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 <213> Artificial Sequence

<220>
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<400> 42

Met	Lys	Lys	Asp	Ile	His	Pro	Lys	Tyr	Glu	Glu	Ile	Thr	Ala	Ser	Cys
1				5					10					15	

Ser	Cys	Gly	Asn	Val	Met	Lys	Ile	Arg	Ser	Thr
			20					25		

<210> 43
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 <212> PRT

<213> Artificial Sequence

<220>

<223> L31(1-32)

<400> 43

Met	Lys	Lys	Asp	Ile	His	Pro	Lys	Tyr	Glu	Glu	Ile	Thr	Ala	Ser	Cys
1				5					10					15	

Ser	Cys	Gly	Asn	Val	Met	Lys	Ile	Arg	Ser	Thr	Val	Gly	His	Asp	Leu
			20					25					30		

<210> 44

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> L31(1-37)

<400> 44

Met	Lys	Lys	Asp	Ile	His	Pro	Lys	Tyr	Glu	Glu	Ile	Thr	Ala	Ser	Cys
1				5					10					15	

Ser	Cys	Gly	Asn	Val	Met	Lys	Ile	Arg	Ser	Thr	Val	Gly	His	Asp	Leu
			20					25					30		

Asn	Leu	Asp	Val	Cys
				35

<210> 45

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> L31(1-42)

<400> 45

Met	Lys	Lys	Asp	Ile	His	Pro	Lys	Tyr	Glu	Glu	Ile	Thr	Ala	Ser	Cys
1				5					10					15	

Ser Cys Gly Asn Val Met Lys Ile Arg Ser Thr Val Gly His Asp Leu
20 25 30

Asn Leu Asp Val Cys Ser Lys Cys His Pro
35 40

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<211> 47
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<213> Artificial Sequence

<220>
<223> L31(1-47)

<400> 46

Met Lys Lys Asp Ile His Pro Lys Tyr Glu Glu Ile Thr Ala Ser Cys
1 5 10 15

Ser Cys Gly Asn Val Met Lys Ile Arg Ser Thr Val Gly His Asp Leu
20 25 30

Asn Leu Asp Val Cys Ser Lys Cys His Pro Phe Phe Thr Gly Lys
35 40 45

<210> 47
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> L31(1-52)

<400> 47

Met Lys Lys Asp Ile His Pro Lys Tyr Glu Glu Ile Thr Ala Ser Cys
1 5 10 15

Ser Cys Gly Asn Val Met Lys Ile Arg Ser Thr Val Gly His Asp Leu
20 25 30

Asn Leu Asp Val Cys Ser Lys Cys His Pro Phe Phe Thr Gly Lys Gln

35

40

45

Arg Asp Val Ala
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<210> 48

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> L31(1-57)

<400> 48

Met Lys Lys Asp Ile His Pro Lys Tyr Glu Glu Ile Thr Ala Ser Cys
1 5 10 15

Ser Cys Gly Asn Val Met Lys Ile Arg Ser Thr Val Gly His Asp Leu
20 25 30

Asn Leu Asp Val Cys Ser Lys Cys His Pro Phe Phe Thr Gly Lys Gln
35 40 45

Arg Asp Val Ala Thr Gly Gly Arg Val
50 55

<210> 49

<211> 67

<212> PRT

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<223> L31(1-67)

<400> 49

Met Lys Lys Asp Ile His Pro Lys Tyr Glu Glu Ile Thr Ala Ser Cys
1 5 10 15

Ser Cys Gly Asn Val Met Lys Ile Arg Ser Thr Val Gly His Asp Leu
20 25 30

Asn Leu Asp Val Cys Ser Lys Cys His Pro Phe Phe Thr Gly Lys Gln
35 40 45

Arg Asp Val Ala Thr Gly Gly Arg Val Asp Arg Phe Asn Lys Arg Phe
50 55 60

Asn Ile Pro
65