

SEQUENCE LISTING

<110> Brimble, Margaret A
 Dunbar, Peter R
 Williams, Geoffrey M
 Verdon, Daniel

<120> AMINO ACID AND PEPTIDE CONJUGATES AND USES THEREOF

<130> 797845

<150> US 62/096,106

<151> 2014-12-23

<160> 101

<170> PatentIn version 3.5

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<400> 1

Xaa	Xaa	Xaa	Xaa	Asp	Arg	His	Ser	Asp	Tyr	Gln	Pro	Leu	Gly	Thr	Gln
1				5					10					15	

Asp Gln Ser Leu Tyr Leu Gly Leu Gln His Asp Gly Asn Asp Gly Leu

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<400> 2

Xaa	Xaa	Xaa	Asp	Arg	His	Ser	Asp	Tyr	Gln	Pro	Leu	Gly	Thr	Gln	Asp
1				5					10					15	

Gln	Ser	Leu	Tyr	Leu	Gly	Leu	Gln	His	Asp	Gly	Asn	Asp	Gly	Leu
		20					25					30		

<210> 3
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<223> Xaa2 is absent or is from one to four hydrophilic amino acids

<400> 3

Xaa Xaa Asp Arg His Ser Asp Tyr Gln Pro Leu Gly Thr Gln Asp Gln
1 5 10 15

Ser Leu Tyr Leu Gly Leu Gln His Asp Gly Asn Asp Gly Leu
20 25 30

<210> 4

<211> 33

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<400> 4

Ser Lys Lys Lys Lys Asp Arg His Ser Asp Tyr Gln Pro Leu Gly Thr
1 5 10 15

Gln Asp Gln Ser Leu Tyr Leu Gly Leu Gln His Asp Gly Asn Asp Gly
20 25 30

Leu

<210> 5

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<400> 5

Asp Arg His Ser Asp Tyr Gln Pro Leu Gly Thr Gln Asp Gln Ser Leu
1 5 10 15

Tyr Leu Gly Leu Gln His Asp Gly Asn Asp Gly Leu
20 25

<210> 6

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<223> Xaa4 is absent or is one or more hydrophilic amino acids

<400> 6

Xaa	Xaa	Xaa	Xaa	Ser	Leu	Tyr	Leu	Gly	Leu	Gln	His	Asp	Gly	Asn	Asp
1				5				10						15	

Gly	Leu	Pro	Pro	Pro	Pro	Tyr	Ser	Pro	Arg	Asp	Asp	Ser	Ser	Gln	His
		20						25					30		

Ile	Tyr	Glu	Glu	Ala
		35		

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 <223> Xaa3 is absent or is from one to ten hydrophilic amino acids

<400> 7

Xaa	Xaa	Xaa	Ser	Leu	Tyr	Leu	Gly	Leu	Gln	His	Asp	Gly	Asn	Asp	Gly
1				5					10					15	

Leu	Pro	Pro	Pro	Pro	Tyr	Ser	Pro	Arg	Asp	Asp	Ser	Ser	Gln	His	Ile
			20					25					30		

Tyr	Glu	Glu	Ala
		35	

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<400> 8

Xaa	Xaa	Ser	Leu	Tyr	Leu	Gly	Leu	Gln	His	Asp	Gly	Asn	Asp	Gly	Leu
1				5					10					15	

Pro	Pro	Pro	Pro	Tyr	Ser	Pro	Arg	Asp	Asp	Ser	Ser	Gln	His	Ile	Tyr
			20					25				30			

Glu Glu Ala
35

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<220>
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<400> 9

Ser Lys Lys Lys Lys Ser Leu Tyr Leu Gly Leu Gln His Asp Gly Asn
1 5 10 15

Asp Gly Leu Pro Pro Pro Pro Tyr Ser Pro Arg Asp Asp Ser Ser Gln
20 25 30

His Ile Tyr Glu Glu Ala
35

<210> 10
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<400> 10

Ser Leu Tyr Leu Gly Leu Gln His Asp Gly Asn Asp Gly Leu Pro Pro
1 5 10 15

Pro Pro Tyr Ser Pro Arg Asp Asp Ser Ser Gln His Ile Tyr Glu Glu
20 25 30

Ala

<210> 11
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<223> Xaa4 is absent or is one or more hydrophilic amino acids

<400> 11

Xaa	Xaa	Xaa	Xaa	Ser	Asp	Tyr	Gln	Pro	Leu	Gly	Thr	Gln	Asp	Gln	Ser
1				5					10					15	

Leu	Tyr	Leu	Gly	Leu	Gln	His	Asp	Gly	Asn	Asp	Gly	Leu
		20						25				

<210> 12

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<222> (3)..(3)

<223> Xaa3 is absent or is from one to ten hydrophilic amino acids

<400> 12

Xaa Xaa Xaa Ser Asp Tyr Gln Pro Leu Gly Thr Gln Asp Gln Ser Leu
1 5 10 15

Tyr Leu Gly Leu Gln His Asp Gly Asn Asp Gly Leu
20 25

<210> 13

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<222> (2)..(2)

<223> Xaa2 is absent or is from one to four hydrophilic amino acids

<400> 13

Xaa Xaa Ser Asp Tyr Gln Pro Leu Gly Thr Gln Asp Gln Ser Leu Tyr
1 5 10 15

Leu Gly Leu Gln His Asp Gly Asn Asp Gly Leu
20 25

<210> 14

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<400> 14

Ser Lys Lys Lys Lys Ser Asp Tyr Gln Pro Leu Gly Thr Gln Asp Gln
1 5 10 15

Ser Leu Tyr Leu Gly Leu Gln His Asp Gly Asn Asp Gly Leu
20 25 30

<210> 15
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<400> 15

Ser Asp Tyr Gln Pro Leu Gly Thr Gln Asp Gln Ser Leu Tyr Leu Gly
1 5 10 15

Leu Gln His Asp Gly Asn Asp Gly Leu
20 25

<210> 16
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<400> 16

Xaa Xaa Xaa Xaa Asp Arg His Ser Asp Tyr Gln Pro Leu Gly Thr Gln
1 5 10 15

Asp Gln Ser Leu Tyr Leu Gly Leu Gln His Asp Gly Asn Asp Gly Leu
20 25 30

Pro Pro Pro Pro Tyr Ser Pro Arg Asp Asp Ser Ser Gln His Ile Tyr
35 40 45

Glu Glu Ala
50

<210> 17
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<400> 17

Xaa	Xaa	Xaa	Asp	Arg	His	Ser	Asp	Tyr	Gln	Pro	Leu	Gly	Thr	Gln	Asp
1			5					10					15		

Gln	Ser	Leu	Tyr	Leu	Gly	Leu	Gln	His	Asp	Gly	Asn	Asp	Gly	Leu	Pro
		20					25					30			

Pro	Pro	Pro	Tyr	Ser	Pro	Arg	Asp	Asp	Ser	Ser	Gln	His	Ile	Tyr	Glu
		35					40					45			

Glu	Ala
	50

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<222> (1)..(2)
<223> Xaa can be any naturally occurring amino acid

<400> 18

Xaa	Xaa	Asp	Arg	His	Ser	Asp	Tyr	Gln	Pro	Leu	Gly	Thr	Gln	Asp	Gln
1				5				10					15		

Ser Leu Tyr Leu Gly Leu Gln His Asp Gly Asn Asp Gly Leu Pro Pro
20 25 30

Pro Pro Tyr Ser Pro Arg Asp Asp Ser Ser Gln His Ile Tyr Glu Glu
35 40 45

Ala

<210> 19
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<400> 19

Ser Lys Lys Lys Lys Asp Arg His Ser Asp Tyr Gln Pro Leu Gly Thr
1 5 10 15

Gln Asp Gln Ser Leu Tyr Leu Gly Leu Gln His Asp Gly Asn Asp Gly
20 25 30

Leu Pro Pro Pro Pro Tyr Ser Pro Arg Asp Asp Ser Ser Gln His Ile
35 40 45

Tyr Glu Glu Ala
50

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<400> 20

Asp Arg His Ser Asp Tyr Gln Pro Leu Gly Thr Gln Asp Gln Ser Leu
1 5 10 15

Tyr Leu Gly Leu Gln His Asp Gly Asn Asp Gly Leu Pro Pro Pro Pro
20 25 30

Tyr Ser Pro Arg Asp Asp Ser Ser Gln His Ile Tyr Glu Glu Ala
 35 40 45

<210> 21
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<400> 21

Xaa Xaa Xaa Xaa Leu Leu Trp Thr Leu Val Val Leu Leu Ile Cys Ser
 1 5 10 15

Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile Leu Leu Ala Arg Leu Phe
 20 25 30

Leu Tyr Ala Leu Ala Leu Leu Leu
 35 40

<210> 22
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 <223> Xaa can be any naturally occurring amino acid

<400> 22

Xaa Xaa Xaa Leu Leu Trp Thr Leu Val Val Leu Leu Ile Cys Ser Ser
 1 5 10 15

Cys Ser Ser Cys Pro Leu Ser Lys Ile Leu Leu Ala Arg Leu Phe Leu
20 25 30

Tyr Ala Leu Ala Leu Leu Leu
35

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<222> (1)..(2)
<223> Xaa can be any naturally occurring amino acid

<400> 23

Xaa Xaa Leu Leu Trp Thr Leu Val Val Leu Leu Ile Cys Ser Ser Cys
1 5 10 15

Ser Ser Cys Pro Leu Ser Lys Ile Leu Leu Ala Arg Leu Phe Leu Tyr
20 25 30

Ala Leu Ala Leu Leu Leu
35

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<400> 24

Ser Lys Lys Lys Lys Leu Leu Trp Thr Leu Val Val Leu Leu Ile Cys
1 5 10 15

Ser Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile Leu Leu Ala Arg Leu
20 25 30

Phe Leu Tyr Ala Leu Ala Leu Leu Leu
35 40

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<220>
<223> Synthetic peptide sequence

<400> 25

Leu Leu Trp Thr Leu Val Val Leu Leu Ile Cys Ser Ser Cys Ser Ser
1 5 10 15

Cys Pro Leu Ser Lys Ile Leu Leu Ala Arg Leu Phe Leu Tyr Ala Leu
20 25 30

Ala Leu Leu Leu
35

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<223> Xaa can be any naturally occurring amino acid

<400> 26

Xaa Xaa Xaa Xaa Leu Met Leu Leu Trp Thr Leu Val Val Leu Leu Ile
1 5 10 15

Cys Ser Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile Leu Leu Ala Arg
20 25 30

Leu Phe Leu Tyr Ala Leu Ala Leu Leu Leu Leu Ala
35 40

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<400> 27

Xaa	Xaa	Xaa	Leu	Met	Leu	Leu	Trp	Thr	Leu	Val	Val	Leu	Leu	Ile	Cys
1				5					10					15	

Ser	Ser	Cys	Ser	Ser	Cys	Pro	Leu	Ser	Lys	Ile	Leu	Leu	Ala	Arg	Leu
			20					25					30		

Phe	Leu	Tyr	Ala	Leu	Ala	Leu	Leu	Leu	Leu	Ala
		35				40				

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<400> 28

Xaa	Xaa	Leu	Met	Leu	Leu	Trp	Thr	Leu	Val	Val	Leu	Leu	Ile	Cys	Ser
1			5						10					15	

Ser	Cys	Ser	Ser	Cys	Pro	Leu	Ser	Lys	Ile	Leu	Leu	Ala	Arg	Leu	Phe
			20					25					30		

Leu	Tyr	Ala	Leu	Ala	Leu	Leu	Leu	Leu	Ala
		35				40			

<210> 29

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<400> 29

Ser Lys Lys Lys Lys Leu Met Leu Leu Trp Thr Leu Val Val Leu Leu
1 5 10 15

Ile Cys Ser Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile Leu Leu Ala
20 25 30

Arg Leu Phe Leu Tyr Ala Leu Ala Leu Leu Leu Leu Ala
35 40 45

<210> 30

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Leu Met Leu Leu Trp Thr Leu Val Val Leu Leu Ile Cys Ser Ser Cys
1 5 10 15

Ser Ser Cys Pro Leu Ser Lys Ile Leu Leu Ala Arg Leu Phe Leu Tyr
20 25 30

Ala Leu Ala Leu Leu Leu Leu Ala
35 40

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<400> 31

Xaa Xaa Xaa Xaa Leu Met Leu Leu Trp Thr Leu Val Val Leu Leu Ile
1 5 10 15

Cys Ser Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile Leu Leu
20 25 30

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<400> 32

Xaa Xaa Xaa Leu Met Leu Leu Trp Thr Leu Val Val Leu Leu Ile Cys
1 5 10 15

Ser Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile Leu Leu
20 25

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<400> 33

Xaa Xaa Leu Met Leu Leu Trp Thr Leu Val Val Leu Leu Ile Cys Ser
1 5 10 15

Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile Leu Leu
20 25

<210> 34

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<400> 34

Ser Lys Lys Lys Lys Leu Met Leu Leu Trp Thr Leu Val Val Leu Leu
1 5 10 15

Ile Cys Ser Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile Leu Leu
20 25 30

<210> 35

<211> 26

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<400> 35

Leu Met Leu Leu Trp Thr Leu Val Val Leu Leu Ile Cys Ser Ser Cys
1 5 10 15

Ser Ser Cys Pro Leu Ser Lys Ile Leu Leu
20 25

<210> 36

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<400> 36

Xaa	Xaa	Xaa	Xaa	Leu	Leu	Ile	Cys	Ser	Ser	Cys	Ser	Ser	Cys	Pro	Leu
1				5					10					15	

Ser	Lys	Ile	Leu	Leu	Ala	Arg	Leu	Phe	Leu	Tyr	Ala	Leu	Ala	Leu	Leu
			20					25					30		

Leu	Leu	Ala
		35

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<400> 37

Xaa	Xaa	Xaa	Leu	Leu	Ile	Cys	Ser	Ser	Cys	Ser	Ser	Cys	Pro	Leu	Ser
1				5					10					15	

Lys	Ile	Leu	Leu	Ala	Arg	Leu	Phe	Leu	Tyr	Ala	Leu	Ala	Leu	Leu	Leu
			20					25					30		

Leu	Ala
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<210> 38
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<222> (1)..(2)

<223> Xaa can be any naturally occurring amino acid

<400> 38

Xaa	Xaa	Leu	Leu	Ile	Cys	Ser	Ser	Cys	Ser	Ser	Cys	Pro	Leu	Ser	Lys
1				5					10					15	

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

Ala

<210> 39

<211> 36

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<400> 39

Ser	Lys	Lys	Lys	Lys	Leu	Leu	Ile	Cys	Ser	Ser	Cys	Ser	Ser	Cys	Pro
1				5					10					15	

Leu	Ser	Lys	Ile	Leu	Leu	Ala	Arg	Leu	Phe	Leu	Tyr	Ala	Leu	Ala	Leu
			20					25					30		

Leu	Leu	Leu	Ala
			35

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<400> 40

Leu Leu Ile Cys Ser Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile Leu
1 5 10 15

Leu Ala Arg Leu Phe Leu Tyr Ala Leu Ala Leu Leu Leu Leu Ala
20 25 30

<210> 41

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<222> (1)..(4)

<223> Xaa can be any naturally occurring amino acid

<400> 41

Xaa Xaa Xaa Xaa Leu Asn Leu Thr Thr Met Phe Leu Leu Met Leu Leu
1 5 10 15

Trp Thr Leu Val Val Leu Leu Ile Cys Ser Ser Cys Ser Ser Cys Pro
20 25 30

Leu Ser Lys Ile Leu Leu Ala Arg Leu Phe Leu Tyr Ala Leu Ala Leu
35 40 45

Leu Leu Leu Ala Ser Ala Leu Ile Ala Gly Gly Ser Ile
50 55 60

<210> 42

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<222> (1)..(3)

<223> Xaa can be any naturally occurring amino acid

<400> 42

Xaa Xaa Xaa Leu Asn Leu Thr Thr Met Phe Leu Leu Met Leu Leu Trp
1 5 10 15

Thr Leu Val Val Leu Leu Ile Cys Ser Ser Cys Ser Ser Cys Pro Leu
20 25 30

Ser Lys Ile Leu Leu Ala Arg Leu Phe Leu Tyr Ala Leu Ala Leu Leu
35 40 45

Leu Leu Ala Ser Ala Leu Ile Ala Gly Gly Ser Ile
50 55 60

<210> 43

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<212> PRT

<213> Artificial

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<223> Synthetic peptide sequence

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<222> (1)..(2)

<223> Xaa can be any naturally occurring amino acid

<400> 43

Xaa Xaa Leu Asn Leu Thr Thr Met Phe Leu Leu Met Leu Leu Trp Thr
1 5 10 15

Leu Val Val Leu Leu Ile Cys Ser Ser Cys Ser Ser Cys Pro Leu Ser
20 25 30

Lys Ile Leu Leu Ala Arg Leu Phe Leu Tyr Ala Leu Ala Leu Leu Leu
35 40 45

Leu Ala Ser Ala Leu Ile Ala Gly Gly Ser Ile
50 55

<210> 44

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<213> Artificial

<220>

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<400> 44

Ser Lys Lys Lys Lys Leu Asn Leu Thr Thr Met Phe Leu Leu Met Leu
1 5 10 15

Leu Trp Thr Leu Val Val Leu Leu Ile Cys Ser Ser Cys Ser Ser Cys
20 25 30

Pro Leu Ser Lys Ile Leu Leu Ala Arg Leu Phe Leu Tyr Ala Leu Ala
35 40 45

Leu Leu Leu Leu Ala Ser Ala Leu Ile Ala Gly Gly Ser Ile
50 55 60

<210> 45

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<212> PRT

<213> Artificial

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<223> Synthetic peptide sequence

<400> 45

Leu Asn Leu Thr Thr Met Phe Leu Leu Met Leu Leu Trp Thr Leu Val
1 5 10 15

Val Leu Leu Ile Cys Ser Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile
20 25 30

Leu Leu Ala Arg Leu Phe Leu Tyr Ala Leu Ala Leu Leu Leu Ala
35 40 45

Ser Ala Leu Ile Ala Gly Gly Ser Ile
50 55

<210> 46

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<212> PRT

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<221> misc_feature

<222> (1)..(4)

<223> Xaa can be any naturally occurring amino acid

<400> 46

Xaa	Xaa	Xaa	Xaa	Phe	Leu	Leu	Met	Leu	Leu	Trp	Thr	Leu	Val	Val	Leu
1				5					10					15	

Leu	Ile	Cys	Ser	Ser	Cys	Ser	Ser	Cys	Pro	Leu	Ser	Lys	Ile	Leu	Leu
			20					25					30		

Ala	Arg	Leu	Phe	Leu	Tyr	Ala	Leu	Ala	Leu	Leu	Leu	Leu	Ala	Ser	Ala
		35					40					45			

<210> 47

<211> 47

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<220>

<221> misc_feature

<222> (1)..(3)

<223> Xaa can be any naturally occurring amino acid

<400> 47

Xaa	Xaa	Xaa	Phe	Leu	Leu	Met	Leu	Leu	Trp	Thr	Leu	Val	Val	Leu	Leu
1				5					10					15	

Ile	Cys	Ser	Ser	Cys	Ser	Ser	Cys	Pro	Leu	Ser	Lys	Ile	Leu	Leu	Ala
			20					25					30		

Arg	Leu	Phe	Leu	Tyr	Ala	Leu	Ala	Leu	Leu	Leu	Leu	Ala	Ser	Ala
		35					40					45		

<210> 48

<211> 46

<212> PRT

<213> Artificial

<220>
<223> Synthetic peptide sequence

<220>
<221> misc_feature
<222> (1)..(2)
<223> Xaa can be any naturally occurring amino acid

<400> 48

Xaa Xaa Phe Leu Leu Met Leu Leu Trp Thr Leu Val Val Leu Leu Ile
1 5 10 15

Cys Ser Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile Leu Leu Ala Arg
20 25 30

Leu Phe Leu Tyr Ala Leu Ala Leu Leu Leu Leu Ala Ser Ala
35 40 45

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

<220>
<223> Synthetic peptide sequence

<400> 49

Ser Lys Lys Lys Lys Phe Leu Leu Met Leu Leu Trp Thr Leu Val Val
1 5 10 15

Leu Leu Ile Cys Ser Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile Leu
20 25 30

Leu Ala Arg Leu Phe Leu Tyr Ala Leu Ala Leu Leu Leu Leu Ala Ser
35 40 45

Ala

<210> 50
<211> 44
<212> PRT
<213> Artificial

<220>

<223> Synthetic peptide sequence

<400> 50

Phe Leu Leu Met Leu Leu Trp Thr Leu Val Val Leu Leu Ile Cys Ser
1 5 10 15

Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile Leu Leu Ala Arg Leu Phe
20 25 30

Leu Tyr Ala Leu Ala Leu Leu Leu Leu Ala Ser Ala
35 40

<210> 51

<211> 55

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<220>

<221> misc_feature

<222> (1)..(4)

<223> Xaa can be any naturally occurring amino acid

<400> 51

Xaa Xaa Xaa Xaa Leu Gln Gly Ile Tyr Val Leu Val Met Leu Val Leu
1 5 10 15

Leu Ile Leu Ala Tyr Arg Arg Arg Trp Arg Arg Leu Thr Val Cys Gly
20 25 30

Gly Ile Met Phe Leu Ala Cys Val Leu Val Leu Ile Val Asp Ala Val
35 40 45

Leu Gln Leu Ser Pro Leu Leu
50 55

<210> 52

<211> 54

<212> PRT

<213> Artificial

<220>
<223> Synthetic peptide sequence

<220>
<221> misc_feature
<222> (1)..(3)
<223> Xaa can be any naturally occurring amino acid

<400> 52

Xaa Xaa Xaa Leu Gln Gly Ile Tyr Val Leu Val Met Leu Val Leu Leu
1 5 10 15

Ile Leu Ala Tyr Arg Arg Arg Trp Arg Arg Leu Thr Val Cys Gly Gly
20 25 30

Ile Met Phe Leu Ala Cys Val Leu Val Leu Ile Val Asp Ala Val Leu
35 40 45

Gln Leu Ser Pro Leu Leu
50

<210> 53
<211> 53
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<220>
<221> misc_feature
<222> (1)..(2)
<223> Xaa can be any naturally occurring amino acid

<400> 53

Xaa Xaa Leu Gln Gly Ile Tyr Val Leu Val Met Leu Val Leu Leu Ile
1 5 10 15

Leu Ala Tyr Arg Arg Arg Trp Arg Arg Leu Thr Val Cys Gly Gly Ile
20 25 30

Met Phe Leu Ala Cys Val Leu Val Leu Ile Val Asp Ala Val Leu Gln
35 40 45

Leu Ser Pro Leu Leu
50

<210> 54
<211> 56
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 54

Ser Lys Lys Lys Lys Leu Gln Gly Ile Tyr Val Leu Val Met Leu Val
1 5 10 15

Leu Leu Ile Leu Ala Tyr Arg Arg Arg Trp Arg Arg Leu Thr Val Cys
20 25 30

Gly Gly Ile Met Phe Leu Ala Cys Val Leu Val Leu Ile Val Asp Ala
35 40 45

Val Leu Gln Leu Ser Pro Leu Leu
50 55

<210> 55
<211> 51
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 55

Leu Gln Gly Ile Tyr Val Leu Val Met Leu Val Leu Leu Ile Leu Ala
1 5 10 15

Tyr Arg Arg Arg Trp Arg Arg Leu Thr Val Cys Gly Gly Ile Met Phe
20 25 30

Leu Ala Cys Val Leu Val Leu Ile Val Asp Ala Val Leu Gln Leu Ser
35 40 45

Pro Leu Leu
50

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

<220>
<223> Synthetic peptide sequence

<220>
<221> misc_feature
<222> (1)..(4)
<223> Xaa can be any naturally occurring amino acid

<400> 56

Xaa	Xaa	Xaa	Xaa	Ser	Gly	Asn	Arg	Thr	Tyr	Gly	Pro	Val	Phe	Met	Cys
1				5					10					15	

Ser	Leu	Gly	Gly	Leu	Leu	Thr	Met	Val	Ala	Gly	Ala	Val	Trp	Leu	Thr
		20						25					30		

Val	Met	Ser	Asn	Thr	Leu	Leu	Ser	Ala	Trp	Ile	Leu	Thr	Ala	Gly	Phe
		35					40					45			

Leu	Ile	Phe	Leu	Ile	Gly	Phe	Ala
		50				55	

<210> 57
<211> 55
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<220>
<221> misc_feature
<222> (1)..(3)
<223> Xaa can be any naturally occurring amino acid

<400> 57

Xaa	Xaa	Xaa	Ser	Gly	Asn	Arg	Thr	Tyr	Gly	Pro	Val	Phe	Met	Cys	Ser
1				5					10					15	

Leu Gly Gly Leu Leu Thr Met Val Ala Gly Ala Val Trp Leu Thr Val
20 25 30

Met Ser Asn Thr Leu Leu Ser Ala Trp Ile Leu Thr Ala Gly Phe Leu
35 40 45

Ile Phe Leu Ile Gly Phe Ala
50 55

<210> 58

<211> 54

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<220>

<221> misc_feature

<222> (1)..(2)

<223> Xaa can be any naturally occurring amino acid

<400> 58

Xaa Xaa Ser Gly Asn Arg Thr Tyr Gly Pro Val Phe Met Cys Ser Leu
1 5 10 15

Gly Gly Leu Leu Thr Met Val Ala Gly Ala Val Trp Leu Thr Val Met
20 25 30

Ser Asn Thr Leu Leu Ser Ala Trp Ile Leu Thr Ala Gly Phe Leu Ile
35 40 45

Phe Leu Ile Gly Phe Ala
50

<210> 59

<211> 57

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<400> 59

Ser Lys Lys Lys Lys Ser Gly Asn Arg Thr Tyr Gly Pro Val Phe Met
1 5 10 15

Cys Ser Leu Gly Gly Leu Leu Thr Met Val Ala Gly Ala Val Trp Leu
20 25 30

Thr Val Met Ser Asn Thr Leu Leu Ser Ala Trp Ile Leu Thr Ala Gly
35 40 45

Phe Leu Ile Phe Leu Ile Gly Phe Ala
50 55

<210> 60

<211> 52

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<400> 60

Ser Gly Asn Arg Thr Tyr Gly Pro Val Phe Met Cys Ser Leu Gly Gly
1 5 10 15

Leu Leu Thr Met Val Ala Gly Ala Val Trp Leu Thr Val Met Ser Asn
20 25 30

Thr Leu Leu Ser Ala Trp Ile Leu Thr Ala Gly Phe Leu Ile Phe Leu
35 40 45

Ile Gly Phe Ala
50

<210> 61

<211> 51

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<220>

<221> misc_feature
<222> (1)..(4)
<223> Xaa can be any naturally occurring amino acid

<400> 61

Xaa Xaa Xaa Xaa Ser Asn Glu Glu Pro Pro Pro Pro Tyr Glu Asp Pro
1 5 10 15

Tyr Trp Gly Asn Gly Asp Arg His Ser Asp Tyr Gln Pro Leu Gly Thr
20 25 30

Gln Asp Gln Ser Leu Tyr Leu Gly Leu Gln His Asp Gly Asn Asp Gly
35 40 45

Leu Pro Pro
50

<210> 62
<211> 50
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<220>
<221> misc_feature
<222> (1)..(3)
<223> Xaa can be any naturally occurring amino acid

<400> 62

Xaa Xaa Xaa Ser Asn Glu Glu Pro Pro Pro Pro Tyr Glu Asp Pro Tyr
1 5 10 15

Trp Gly Asn Gly Asp Arg His Ser Asp Tyr Gln Pro Leu Gly Thr Gln
20 25 30

Asp Gln Ser Leu Tyr Leu Gly Leu Gln His Asp Gly Asn Asp Gly Leu
35 40 45

Pro Pro
50

<210> 63
<211> 49
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<220>
<221> misc_feature
<222> (1)..(2)
<223> Xaa can be any naturally occurring amino acid

<400> 63

Xaa	Xaa	Ser	Asn	Glu	Glu	Pro	Pro	Pro	Pro	Tyr	Glu	Asp	Pro	Tyr	Trp
1			5					10						15	

Gly	Asn	Gly	Asp	Arg	His	Ser	Asp	Tyr	Gln	Pro	Leu	Gly	Thr	Gln	Asp
			20					25					30		

Gln	Ser	Leu	Tyr	Leu	Gly	Leu	Gln	His	Asp	Gly	Asn	Asp	Gly	Leu	Pro
		35					40					45			

Pro

<210> 64
<211> 52
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 64

Ser	Lys	Lys	Lys	Lys	Ser	Asn	Glu	Glu	Pro	Pro	Pro	Pro	Tyr	Glu	Asp
1				5					10					15	

Pro	Tyr	Trp	Gly	Asn	Gly	Asp	Arg	His	Ser	Asp	Tyr	Gln	Pro	Leu	Gly
			20					25					30		

Thr	Gln	Asp	Gln	Ser	Leu	Tyr	Leu	Gly	Leu	Gln	His	Asp	Gly	Asn	Asp
		35					40					45			

Gly Leu Pro Pro
50

<210> 65
<211> 47
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 65

Ser Asn Glu Glu Pro Pro Pro Pro Tyr Glu Asp Pro Tyr Trp Gly Asn
1 5 10 15

Gly Asp Arg His Ser Asp Tyr Gln Pro Leu Gly Thr Gln Asp Gln Ser
20 25 30

Leu Tyr Leu Gly Leu Gln His Asp Gly Asn Asp Gly Leu Pro Pro
35 40 45

<210> 66
<211> 55
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<220>
<221> misc_feature
<222> (1)..(4)
<223> Xaa can be any naturally occurring amino acid

<400> 66

Xaa Xaa Xaa Xaa Gly Asn Asp Gly Leu Pro Pro Pro Pro Tyr Ser Pro
1 5 10 15

Arg Asp Asp Ser Ser Gln His Ile Tyr Glu Glu Ala Gly Arg Gly Ser
20 25 30

Met Asn Pro Val Cys Leu Pro Val Ile Val Ala Pro Tyr Leu Phe Trp
35 40 45

Leu Ala Ala Ile Ala Ala Ser
50 55

<210> 67
<211> 54
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<220>
<221> misc_feature
<222> (1)..(3)
<223> Xaa can be any naturally occurring amino acid

<400> 67

Xaa Xaa Xaa Gly Asn Asp Gly Leu Pro Pro Pro Pro Tyr Ser Pro Arg
1 5 10 15

Asp Asp Ser Ser Gln His Ile Tyr Glu Glu Ala Gly Arg Gly Ser Met
20 25 30

Asn Pro Val Cys Leu Pro Val Ile Val Ala Pro Tyr Leu Phe Trp Leu
35 40 45

Ala Ala Ile Ala Ala Ser
50

<210> 68
<211> 53
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<220>
<221> misc_feature
<222> (1)..(2)
<223> Xaa can be any naturally occurring amino acid

<400> 68

Xaa Xaa Gly Asn Asp Gly Leu Pro Pro Pro Pro Tyr Ser Pro Arg Asp
1 5 10 15

Asp Ser Ser Gln His Ile Tyr Glu Glu Ala Gly Arg Gly Ser Met Asn
20 25 30

Pro Val Cys Leu Pro Val Ile Val Ala Pro Tyr Leu Phe Trp Leu Ala
35 40 45

Ala Ile Ala Ala Ser
50

<210> 69

<211> 56

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<400> 69

Ser Lys Lys Lys Lys Gly Asn Asp Gly Leu Pro Pro Pro Pro Tyr Ser
1 5 10 15

Pro Arg Asp Asp Ser Ser Gln His Ile Tyr Glu Glu Ala Gly Arg Gly
20 25 30

Ser Met Asn Pro Val Cys Leu Pro Val Ile Val Ala Pro Tyr Leu Phe
35 40 45

Trp Leu Ala Ala Ile Ala Ala Ser
50 55

<210> 70

<211> 51

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<400> 70

Gly Asn Asp Gly Leu Pro Pro Pro Pro Tyr Ser Pro Arg Asp Asp Ser
1 5 10 15

Ser Gln His Ile Tyr Glu Glu Ala Gly Arg Gly Ser Met Asn Pro Val
20 25 30

Cys Leu Pro Val Ile Val Ala Pro Tyr Leu Phe Trp Leu Ala Ala Ile
35 40 45

Ala Ala Ser
50

<210> 71
<211> 54
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<220>
<221> misc_feature
<222> (1)..(4)
<223> Xaa can be any naturally occurring amino acid

<400> 71

Xaa Xaa Xaa Xaa Ala Ala Ile Ala Ala Ser Cys Phe Thr Ala Ser Val
1 5 10 15

Ser Thr Val Val Thr Ala Thr Gly Leu Ala Leu Ser Leu Leu Leu
20 25 30

Ala Ala Val Ala Ser Ser Tyr Ala Ala Ala Gln Arg Lys Leu Leu Thr
35 40 45

Pro Val Thr Val Leu Thr
50

<210> 72
<211> 53
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<220>

<221> misc_feature
<222> (1)..(3)
<223> Xaa can be any naturally occurring amino acid

<400> 72

Xaa Xaa Xaa Ala Ala Ile Ala Ala Ser Cys Phe Thr Ala Ser Val Ser
1 5 10 15

Thr Val Val Thr Ala Thr Gly Leu Ala Leu Ser Leu Leu Leu Leu Ala
20 25 30

Ala Val Ala Ser Ser Tyr Ala Ala Ala Gln Arg Lys Leu Leu Thr Pro
35 40 45

Val Thr Val Leu Thr
50

<210> 73
<211> 52
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<220>
<221> misc_feature
<222> (1)..(2)
<223> Xaa can be any naturally occurring amino acid

<400> 73

Xaa Xaa Ala Ala Ile Ala Ala Ser Cys Phe Thr Ala Ser Val Ser Thr
1 5 10 15

Val Val Thr Ala Thr Gly Leu Ala Leu Ser Leu Leu Leu Leu Ala Ala
20 25 30

Val Ala Ser Ser Tyr Ala Ala Ala Gln Arg Lys Leu Leu Thr Pro Val
35 40 45

Thr Val Leu Thr
50

<210> 74
<211> 55
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 74

Ser Lys Lys Lys Lys Ala Ala Ile Ala Ala Ser Cys Phe Thr Ala Ser
1 5 10 15

Val Ser Thr Val Val Thr Ala Thr Gly Leu Ala Leu Ser Leu Leu Leu
20 25 30

Leu Ala Ala Val Ala Ser Ser Tyr Ala Ala Ala Gln Arg Lys Leu Leu
35 40 45

Thr Pro Val Thr Val Leu Thr
50 55

<210> 75
<211> 50
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 75

Ala Ala Ile Ala Ala Ser Cys Phe Thr Ala Ser Val Ser Thr Val Val
1 5 10 15

Thr Ala Thr Gly Leu Ala Leu Ser Leu Leu Leu Leu Ala Ala Val Ala
20 25 30

Ser Ser Tyr Ala Ala Ala Gln Arg Lys Leu Leu Thr Pro Val Thr Val
35 40 45

Leu Thr
50

<210> 76
<211> 10

<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 76

Glu Ser Asn Glu Glu Pro Pro Pro Pro Tyr
1 5 10

<210> 77
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 77

Ser Asn Glu Glu Pro Pro Pro Pro Tyr
1 5

<210> 78
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 78

His Ser Asp Tyr Gln Pro Leu Gly Thr
1 5

<210> 79
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 79

Pro Leu Gly Thr Gln Asp Gln Ser Leu
1 5

<210> 80
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 80

Pro Leu Gly Thr Gln Asp Gln Ser Leu Tyr
1 5 10

<210> 81
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 81

Leu Gly Thr Gln Asp Gln Ser Leu Tyr
1 5

<210> 82
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 82

Gly Thr Gln Asp Gln Ser Leu Tyr Leu
1 5

<210> 83
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 83

Gly Thr Gln Asp Gln Ser Leu Tyr Leu
1 5

<210> 84
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 84

Gly Thr Gln Asp Gln Ser Leu Tyr Leu Gly
1 5 10

<210> 85
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 85

Gln Ser Leu Tyr Leu Gly Leu Gln His
1 5

<210> 86
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 86

Ser Leu Tyr Leu Gly Leu Gln His Asp
1 5

<210> 87
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 87

Gly Leu Gln His Asp Gly Asn Asp Gly Leu
1 5 10

<210> 88
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 88

Gly Asn Asp Gly Leu Pro Pro Pro Pro Tyr
1 5 10

<210> 89
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 89

Gly Leu Pro Pro Pro Pro Tyr Ser Pro
1 5

<210> 90
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 90

Gly Leu Pro Pro Pro Pro Tyr Ser Pro Arg
1 5 10

<210> 91
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide sequence

<400> 91

Pro Arg Asp Asp Ser Ser Gln His Ile Tyr
1 5 10

<210> 92

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<400> 92

Arg Asp Asp Ser Ser Gln His Ile Tyr
1 5

<210> 93

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<400> 93

His Ile Tyr Glu Glu Ala Gly Arg Gly
1 5

<210> 94

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<400> 94

Ile Leu Leu Ala Arg Leu Phe Leu Tyr
1 5

<210> 95

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<400> 95

Ser Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile
1 5 10

<210> 96

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<400> 96

Leu Leu Trp Thr Leu Val Val Leu Leu
1 5

<210> 97

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<400> 97

Phe Leu Tyr Ala Leu Ala Leu Leu Leu
1 5

<210> 98

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<400> 98

Cys Leu Gly Gly Leu Leu Thr Met Val
1 5

<210> 99

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<400> 99

Leu Ile Val Asp Ala Val Leu Gln Leu
1 5

<210> 100

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<400> 100

Leu Thr Ala Gly Phe Leu Ile Phe Leu
1 5

<210> 101

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide sequence

<400> 101

Thr Val Cys Gly Gly Ile Met Phe Leu
1 5