

SEQUENCE LISTING

<110> SHENZHEN PREGENE BIOPHARMA CO.LTD.

<120> ANTI-BCMA SINGLE DOMAIN ANTIBODIES AND APPLICATION THEREOF

<130> 0087-PA-002SG

<160> 205

<170> SIP0SequenceListing 1.0

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<211> 37

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<213> artificial sequence

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<211> 39

<212> PRT

<213> artificial sequence

$\langle 400 \rangle$ 2

[illegible] $\langle 210 \rangle$ 3

<211> 33

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<400> 3

Ala Asn Thr Met Ala Ala Arg Ile Ser Thr Asp Gly Arg Thr Asn Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Asn Ala Asn Trp Leu Ser Lys Phe Asp
20 25 30
Tyr

<210> 4
<211> 36
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<213> artificial sequence

<400> 4
Val Asn Ala Val Ala Ala Tyr Ile Arg Arg Ser Gly Ser Thr Asn Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Asn Ala Asp Phe Gly Ser Asp Tyr Val
20 25 30
Val Leu Gly Ser
35

<210> 5
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<213> artificial sequence

<400> 5
Ile Lys Ala Leu Ala Ala Tyr Ile Thr Ser Gly Gly Asn Thr Asn Tyr
1 5 10 15
Ala Asp Ser Val Arg Gly Cys Asn Ala Asp Phe Gly Glu Gly Thr Ile
20 25 30
Ile Ser Leu Gly Pro
35

<210> 6
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<213> artificial sequence

<400> 6
Ile Asn Ala Met Ala Ala Ala Leu Thr Ser Gly Gly Asn Thr His Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Asn Ala Asp Phe Gly Thr Ala Gly Leu
20 25 30
Val Val Leu Gly Pro
35

<210> 7
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<400> 7
Ile Asn Ala Met Ala Ala Tyr Ile Arg Ser Asn Gly Arg Thr Asn Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Asn Ala Asp Tyr Gly Pro Pro Val Ser
20 25 30

Ile Gly Pro
35

<210> 8
<211> 36
<212> PRT
<213> artificial sequence

<400> 8
Ile Lys Ala Met Ala Ala Ala Val Thr Ser Gly Gly Ser Thr His Tyr
1 5 10 15
Leu Asp Ser Val Lys Gly Cys Asn Ala Asp Phe Gly Thr Asp Tyr Val
20 25 30
Asp Leu Gly Pro
35

<210> 9
<211> 39
<212> PRT
<213> artificial sequence

<400> 9
Ile Asn Ala Met Gly Ala Ala Ile Thr Lys Ser Asn Asn Ile Asn Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Asn Gly Phe Phe Ala Leu Pro Gly Tyr
20 25 30
Ser Ser Glu Glu Phe Gly Pro
35

<210> 10
<211> 37
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<213> artificial sequence

<400> 10
Met Asn Arg Met Gly Ala Asp Ile Arg Asp Gly Gly Ser Thr Ile Tyr
1 5 10 15
Ser Asp Ser Val Lys Gly Cys Asn Ala Gly Arg Thr Gly Asp Arg Phe
20 25 30
Asn Leu Val Ala Tyr
35

<210> 11
<211> 41
<212> PRT
<213> artificial sequence

<400> 11
Gly Tyr Ala Met Ala Ala Ala Ile Ser Ser Ser Ser Asn Ser Ala Pro
1 5 10 15

Tyr	Tyr	Ala	Asn	Ser	Val	Lys	Gly	Cys	Ala	Ala	Arg	Tyr	Gly	Thr	Lys
			20					25					30		
Arg	Tyr	Val	Ala	Arg	Glu	Tyr	Asp	Ser							
		35					40								

<210> 12
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Ile	Asn	Gly	Met	Gly	Ala	Arg	Ile	Asp	Ser	Arg	Gly	Ser	Ala	Tyr	Tyr
1			5					10					15		
Ala	Asp	Phe	Val	Glu	Gly	Cys	Phe	Ala	Trp	Gln	Gly	Ala	Glu	Thr	Tyr
			20					25					30		

<210> 13
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 <212> PRT
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Thr	Tyr	Ala	Met	Ala	Ala	Tyr	Ile	Thr	Asn	Gly	Gly	Ser	Thr	Asp	Tyr
1			5					10					15		
Ala	Ala	Ser	Val	Lys	Gly	Cys	Asn	Gly	Ala	Thr	Arg	Gly	Ala	Gln	Leu
			20					25					30		
Val	Phe	Asp													
		35													

<210> 14
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Asn	Tyr	Ala	Met	Ala	Ala	Ala	Ile	Ser	Val	Ser	Ala	Asn	Ser	Ala	Pro
1			5					10					15		
Tyr	Tyr	Ala	Asn	Ser	Val	Lys	Gly	Cys	Ala	Ala	Arg	Tyr	Gly	Thr	Lys
			20					25					30		
Arg	Tyr	Val	Ala	Arg	Glu	Tyr	Asp	Ser							
		35					40								

<210> 15
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Leu	Asn	Ala	Met	Gly	Ala	Arg	Ile	Ala	Ala	Asp	Gly	Ser	Thr	His	Tyr
1			5					10					15		

Ala Asp Ser Val Glu Gly Cys Phe Ala Trp Leu Gly Thr Asp Thr Tyr
20 25 30

<210> 16

<211> 31

<212> PRT

<213> artificial sequence

<400> 16

Asn Asn Ala Met Gly Ala Arg Ile Asp Ser Gly Gly Ile Thr Arg Tyr
1 5 10 15
Ala Asp Ser Leu Lys Gly Cys Phe Ala His Val Gly Gly Thr Ile
20 25 30

<210> 17

<211> 41

<212> PRT

<213> artificial sequence

<400> 17

Ile Asn Ser Met Gly Ala Ser Ile Thr Gly Gly Gly Ser Ser Arg Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Asn Thr Ile Pro Pro Ala Arg Thr Gln
20 25 30
Ser Asp His Gly Glu Trp Tyr Asp Tyr
35 40

<210> 18

<211> 34

<212> PRT

<213> artificial sequence

<400> 18

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

<210> 19

<211> 39

<212> PRT

<213> artificial sequence

<400> 19

Ile Asn Ala Met Ala Ala Tyr Ile Arg Ser Asn Gly Ser Thr Asn Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Asn Gly Phe Phe Thr Leu Pro Gly Tyr
20 25 30

Ser Ser Glu Glu Phe Gly Pro
35

<210> 20

<211> 40

<212> PRT

<213> artificial sequence

<400> 20

Ile Asn Ala Met Gly Ala Gly Ile Thr Lys Gly Gly Arg Thr Asn Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Asn Gly Leu Cys Ser Gly Arg Glu Cys
20 25 30
Tyr Gly Asp Ser Leu Phe Ala Ala
35 40

<210> 21

<211> 36

<212> PRT

<213> artificial sequence

<400> 21

Ile Asn Ala Met Ala Ala Tyr Ile Arg Ser Asn Gly Arg Thr Asn Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Ser Gly Phe Phe Leu Asp Gly Ser Thr
20 25 30
Trp His Pro Tyr
35

<210> 22

<211> 40

<212> PRT

<213> artificial sequence

<400> 22

Asp Tyr Ala Ile Gly Ser Cys Ile Ser Ser Ser Asp Gly Ser Thr His
1 5 10 15
Tyr Ala Asp Ser Val Lys Gly Cys Ala Thr Pro Trp Val Thr Tyr Cys
20 25 30
Pro Glu Asn Leu Leu Phe Ser Tyr
35 40

<210> 23

<211> 40

<212> PRT

<213> artificial sequence

<400> 23

Asp Tyr Ala Ile Gly Ser Cys Ile Thr Ser Ser Asp Gly Ser Thr Tyr
1 5 10 15

Tyr Ala Asp Ser Val Lys Gly Cys Ala Thr Pro Trp Val Thr Tyr Cys
 20 25 30
 Pro Glu Asn Leu Leu Phe Ser Tyr
 35 40

<210> 24
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 <212> PRT
 <213> artificial sequence

<400> 24
 Ile Lys Ala Met Gly Ala Ala Ile Thr Ser Gly Gly Ser Thr Asn Tyr
 1 5 10 15
 Ala Asp Ser Val Lys Gly Cys Asn Gly Phe Phe Glu Tyr Arg Gly Leu
 20 25 30
 Glu Gln Leu Gly Pro
 35

<210> 25
 <211> 37
 <212> PRT
 <213> artificial sequence

<400> 25
 Ile Arg Ala Met Thr Ala Val Leu Thr Ser Ala Gly Lys Pro Met Tyr
 1 5 10 15
 Ala Asp Ser Val Lys Gly Cys Asn Ala Asp Phe Gly Thr Pro Gly Ser
 20 25 30
 Val Val Leu Gly Pro
 35

<210> 26
 <211> 39
 <212> PRT
 <213> artificial sequence

<400> 26
 Ile Glu Ala Met Gly Ala Ala Ile Thr Ser Gly Asp Ser Thr Asn Tyr
 1 5 10 15
 Ala Asp Phe Val Lys Gly Cys Asn Ala Leu Met Val Val Arg Ala Gly
 20 25 30
 Ser Asn Pro Glu Ile Gly Pro
 35

<210> 27
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 <212> PRT
 <213> artificial sequence

<400> 27

Asp	Tyr	Ala	Ile	Gly	Ser	Cys	Ile	Ser	Ser	Ser	Asp	Gly	Ser	Thr	Tyr
1				5				10						15	
Tyr	Ala	Asp	Ser	Val	Lys	Gly	Cys	Ala	Thr	Pro	Trp	Val	Thr	Tyr	Cys
			20					25					30		
Pro	Glu	Asn	Leu	Leu	Phe	Ser	Tyr								
		35					40								

<210> 28
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 <213> artificial sequence

Leu	Asp	Ala	Val	Gly	Ala	Arg	Ile	Asp	Arg	Arg	Gly	Ser	Thr	Tyr	Tyr
1				5				10						15	
Ala	Val	Ser	Val	Glu	Gly	Cys	Phe	Ala	Trp	Gln	Gly	Ala	Glu	Thr	His
			20					25					30		

<210> 29
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 <213> artificial sequence

Phe	Asn	Asp	Met	Gly	Ala	Ala	Ile	Thr	Ser	Ser	Arg	Asn	Thr	Leu	Tyr
1				5				10						15	
Val	Asp	Ser	Val	Lys	Gly	Cys	Asn	Pro	Tyr	Pro	Ser	Pro	Asn	Asn	Tyr
			20					25					30		

<210> 30
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 <213> artificial sequence

Ile	Asn	Ala	Met	Gly	Ala	Ala	Ile	Thr	Arg	Ser	Gly	Lys	Thr	Asn	Tyr
1				5				10						15	
Ala	Asp	Ser	Val	Lys	Gly	Cys	Asn	Gly	Phe	Tyr	Gly	Ser	Glu	Phe	Gly
			20					25					30		
Pro															

<210> 31
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 <212> PRT
 <213> artificial sequence

Arg	Tyr	Ala	Val	Gly	Ala	Ser	Ile	Thr	Trp	Ser	Gly	Asp	Tyr	Thr	Tyr
1				5				10						15	

Tyr Lys Asp Ser Val Lys Gly Cys Ala Ala Asp Lys Ser Ser Phe Arg
 20 25 30
 Leu Arg Gly Pro Gly Leu Tyr Asp Tyr
 35 40

<210> 32
 <211> 40
 <212> PRT
 <213> artificial sequence

<400> 32
 Tyr Tyr Ala Ile Gly Ser Cys Ile Ser Ser Arg Asp Gly Thr Thr His
 1 5 10 15
 Tyr Ala Asp Ser Val Lys Gly Cys Ala Thr Pro Trp Val Thr Tyr Cys
 20 25 30
 Pro Glu Asn Leu Leu Phe Ser Tyr
 35 40

<210> 33
 <211> 42
 <212> PRT
 <213> artificial sequence

<400> 33
 Tyr Tyr Ala Ile Gly Ser Ala Ile Ser Asn Ile Asp Asp Asp Thr Tyr
 1 5 10 15
 Tyr Glu Asp Ser Val Lys Gly Cys Ala Ala Asp Lys Asp Val Val Val
 20 25 30
 Val Arg Thr Gly Leu Ser Glu Ser Asp Tyr
 35 40

<210> 34
 <211> 37
 <212> PRT
 <213> artificial sequence

<400> 34
 Ile Asn Ala Met Ala Ala Val Ile Thr Ser Gly Gly Arg Thr Met Tyr
 1 5 10 15
 Ala Glu Ser Val Lys Gly Cys Asn Gly Asp Trp Gly Ser Glu Gly Arg
 20 25 30
 Val Asp Leu Gly Pro
 35

<210> 35
 <211> 46
 <212> PRT
 <213> artificial sequence

<400> 35

Ile	Gly	Asp	Met	Glu	Ala	Ser	Ile	Ser	Ala	Gly	Pro	Glu	Met	Arg	Ser
1				5					10					15	
Ala	Gly	Thr	Pro	Thr	Tyr	Ala	Lys	Ser	Val	Glu	Gly	Cys	Asn	Ala	Asp
			20					25					30		
Val	Leu	Thr	Tyr	Tyr	Asn	Gly	Arg	Tyr	Ser	Arg	Asp	Val	Tyr		
		35					40					45			

<210> 36
 <211> 35
 <212> PRT
 <213> artificial sequence

Ile	Asn	Met	Ser	Ala	Thr	Ile	Thr	Arg	His	Asp	Ser	Thr	His	Tyr	Ser
1				5					10					15	
Asp	Ser	Val	Lys	Gly	Cys	Ser	Gly	Phe	Phe	Leu	Asp	Gly	Ser	Thr	Trp
			20					25					30		
Arg	Pro	Tyr													
		35													

<210> 37
 <211> 41
 <212> PRT
 <213> artificial sequence

Gly	Tyr	Ala	Val	Ala	Ala	Ala	Ile	Ser	Ser	Ser	Asp	Asn	Ser	Ser	Pro
1				5					10					15	
Tyr	Tyr	Ala	Asn	Val	Val	Lys	Gly	Cys	Ala	Ala	Arg	Tyr	Gly	Thr	Lys
			20					25					30		
Arg	Tyr	Val	Ala	Arg	Glu	Tyr	Asp	Ser							
		35					40								

<210> 38
 <211> 39
 <212> PRT
 <213> artificial sequence

Ile	Asn	Ala	Met	Ala	Ala	Tyr	Ile	Arg	Ser	Ser	Gly	Thr	Thr	Met	Tyr
1				5					10					15	
Ala	Asp	Ser	Val	Lys	Gly	Cys	Asn	Gly	Asp	Tyr	Ser	Pro	Pro	Gly	Ser
			20					25					30		
Thr	Tyr	Pro	Asp	Leu	Gly	Pro									
		35													

<210> 39
 <211> 47
 <212> PRT
 <213> artificial sequence

<400> 39

Asp	Tyr	Ala	Ile	Gly	Ser	Cys	Ile	Thr	Ser	Ser	Asp	Gly	Ser	Thr	Tyr
1				5				10					15		
Tyr	Ala	Asp	Ser	Val	Lys	Gly	Cys	Ala	Thr	Pro	Trp	Val	Asn	Tyr	Cys
			20					25					30		
Pro	Glu	Asn	Leu	Leu	Phe	Ser	Tyr	Phe	Ser	Thr	Tyr	Phe	Met	Ala	
		35					40					45			

<210> 40

<211> 33

<212> PRT

<213> artificial sequence

<400> 40

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

<210> 41

<211> 32

<212> PRT

<213> artificial sequence

<400> 41

Ile	Asp	Ala	Met	Gly	Ala	Arg	Leu	Gly	Ser	Asn	Gly	Phe	Thr	Gln	Tyr
1				5				10					15		
Asp	Ile	Ser	Val	Glu	Gly	Cys	Phe	Ala	Trp	Leu	Gly	Gln	Asp	Thr	Val
			20					25					30		

<210> 42

<211> 41

<212> PRT

<213> artificial sequence

<400> 42

Asn	Tyr	Ala	Met	Gly	Ala	Ser	Val	Thr	Arg	Ser	Gly	Asp	Asn	Thr	Tyr
1				5				10					15		
Tyr	Lys	Asp	Ser	Ala	Lys	Gly	Cys	Ala	Ala	Asp	Lys	Ser	Ser	Phe	Arg
			20					25					30		
Leu	Arg	Gly	Pro	Gly	Val	Tyr	Asp	Tyr							
		35					40								

<210> 43

<211> 43

<212> PRT

<213> artificial sequence

<400> 43

Val Met Leu Met Gly Ala Ser Ile Thr Ser Ala Asp Tyr Thr Thr Tyr
1 5 10 15
Ala Glu Ser Val Glu Gly Cys Lys Val Ile Ala Ala Thr Val Trp Gly
20 25 30
Gln Glu Thr Gln Val Arg Gln Gly Leu Thr Phe
35 40

<210> 44

<211> 37

<212> PRT

<213> artificial sequence

<400> 44

Ala Arg Ser Met Thr Ala Val Ile Met Gly Gly Gly Ser Thr Met Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Asn Ala Asp Trp Gly Glu Val Gly Phe
20 25 30
Pro Asn Leu Gly Pro
35

<210> 45

<211> 41

<212> PRT

<213> artificial sequence

<400> 45

Thr Tyr Ala Ile Gly Ala Ala Ile Ser Arg Arg Gly Asn Lys Thr Asp
1 5 10 15
Tyr Ala Glu Ser Val Lys Gly Cys Ala Ala Ser Ala Arg Asn Phe Ile
20 25 30
Gly Thr Gln Pro Leu Asp Tyr Asp Tyr
35 40

<210> 46

<211> 39

<212> PRT

<213> artificial sequence

<400> 46

Asn Tyr Ala Leu Gly Ala Ala Ile Asp Trp Arg His Ser Ser Tyr Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Ala Ala Ser Ser Leu Phe Pro Ser Ser
20 25 30
Ala Pro Arg Gln Tyr Asp Tyr
35

<210> 47

<211> 40

<212> PRT
<213> artificial sequence

<400> 47
Asn Tyr Ala Met Gly Ala Ala Ile Val Gly Ser Gly Asp Ser Thr Arg
1 5 10 15
Tyr Ala Asp Ser Val Lys Gly Cys Ala Ser Ser Ser Asp Pro Arg Val
20 25 30
Tyr Ile Ala Ser Thr Leu Asp Tyr
35 40

<210> 48
<211> 36
<212> PRT
<213> artificial sequence

<400> 48
Met Phe Ile Met Gly Ala Ala Ile Ser Arg Asn Ser Asn Leu Thr Tyr
1 5 10 15
Tyr Phe Gln Ser Val Lys Gly Cys Asn Ala Asp Tyr Gly Pro Pro Val
20 25 30
Ser Ile Gly Pro
35

<210> 49
<211> 39
<212> PRT
<213> artificial sequence

<400> 49
Ile Lys Ala Met Gly Ala Gly Ile Val Ser Ser Gly Asn Thr Asn Tyr
1 5 10 15
Ala Asp Phe Val Lys Gly Cys Asn Ala Leu Val Val Val Thr Ser Ala
20 25 30
Ser Gly Pro Glu Leu Ala Ser
35

<210> 50
<211> 39
<212> PRT
<213> artificial sequence

<400> 50
Thr Tyr Phe Met Ala Ala Tyr Ile Arg Ser Gly Gly Thr Thr Asn Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Asn Ala Asp Tyr Ser Pro Pro Gly Ser
20 25 30
Arg Phe Pro Asp Leu Gly Pro
35

<210> 51
<211> 38
<212> PRT
<213> artificial sequence

<400> 51
Asn Tyr Ala Ile Ala Ser Ser Thr Gly Ser Asp Gly Asn Leu Tyr Thr
1 5 10 15
Pro Ser Val Arg Gly Cys Val Ala Gly Lys Arg Pro Val Ile Thr Thr
20 25 30
Trp Ile Ala Leu Asp Ala
35

<210> 52
<211> 32
<212> PRT
<213> artificial sequence

<400> 52
Ile Asp Ser Met Arg Ala His Ile Thr Ser Thr Gly Arg Thr Asn Tyr
1 5 10 15
Ala Asp Ala Val Lys Gly Cys Asn Met Val Thr Thr Pro Tyr Met His
20 25 30

<210> 53
<211> 32
<212> PRT
<213> artificial sequence

<400> 53
Glu Asn Ala Met Gly Ala Ala Ile Thr Ser Ser Arg Ser Thr Leu Tyr
1 5 10 15
Ile Asp Ser Val Lys Gly Cys Asn Pro Tyr Pro Ser Pro Asn Ser Tyr
20 25 30

<210> 54
<211> 33
<212> PRT
<213> artificial sequence

<400> 54
Ala Asn Lys Met Gly Ala Arg Ile Ser Thr Asp Gly Arg Thr Asn Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Asn Ala Asn Trp Leu Asp Lys Tyr Asp
20 25 30
Tyr

<210> 55
<211> 37

<212> PRT
<213> artificial sequence

<400> 55
Ala Arg Ser Met Thr Ala Val Ile Thr Ser Gly Gly Ser Thr Met Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Asn Ala Asp Trp Gly Glu Val Gly Phe
20 25 30
Val Asn Leu Gly Pro
35

<210> 56
<211> 39
<212> PRT
<213> artificial sequence

<400> 56
Phe Asn Gly Val Ala Ala Val Ile Arg Ser Gly Gly Asn Thr Leu Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Asn Val Asp Tyr Ser Pro Pro Gly Ser
20 25 30
Leu Val Pro Asp Leu Gly Pro
35

<210> 57
<211> 40
<212> PRT
<213> artificial sequence

<400> 57
Ile Asn Ala Met Gly Ala Ala Ile Thr Arg Gly Gly Ser Thr Asn Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Asn Gly Leu Cys Ser Asp Asp Arg Cys
20 25 30
Tyr Gly Asp Ser Leu Phe Ala Pro
35 40

<210> 58
<211> 35
<212> PRT
<213> artificial sequence

<400> 58
Leu Asp Ala Val Gly Ala Arg Ile Asp Ser Arg Gly Ser Ala Tyr Tyr
1 5 10 15
Ala Asp Ser Val Glu Gly Cys Phe Ala Tyr Tyr Gly Ala Gln Ile Ser
20 25 30
Phe Gly Pro
35

<210> 59
<211> 33
<212> PRT
<213> artificial sequence

<400> 59
Leu Asp Ala Met Gly Ala His Ile Asp Asp Asp Arg Gly Thr Ala Tyr
1 5 10 15
Tyr Ala Asp Phe Val Lys Gly Cys Phe Ala Trp Gln Gly Ala Glu Thr
20 25 30
Tyr

<210> 60
<211> 37
<212> PRT
<213> artificial sequence

<400> 60
Val Asn Ala Val Ala Ala Tyr Ile Arg Arg Ser Gly Ser Thr Asn Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Asn Ala Gly Arg Thr Gly Asp Arg Phe
20 25 30
Asn Leu Val Ala Tyr
35

<210> 61
<211> 40
<212> PRT
<213> artificial sequence

<400> 61
Thr Tyr Phe Met Ala Gly Gly Ile Arg Trp Ser Asp Gly Val Pro His
1 5 10 15
Tyr Ala Asp Ser Val Lys Gly Cys Asn Ala Asp Tyr Ser Pro Pro Gly
20 25 30
Ser Arg Phe Pro Asp Leu Gly Pro
35 40

<210> 62
<211> 35
<212> PRT
<213> artificial sequence

<400> 62
Ile Lys Ala Met Ala Ala Tyr Ile Arg Ser Gly Gly Thr Asn Tyr Ala
1 5 10 15
Asp Ser Val Lys Gly Cys Ala Ser Arg Gly Ile Ala Asp Gly Ser Asp
20 25 30
Phe Gly Ser

35

<210> 63
<211> 39
<212> PRT
<213> artificial sequence

<400> 63
Leu Tyr Ala Met Gly Ala Tyr Ile Arg Ser Gly Gly Thr Thr Asn Tyr
1 5 10 15
Ala Asp Ser Val Lys Gly Cys Asn Ala Asp Tyr Ser Pro Pro Gly Ser
20 25 30
Arg Phe Pro Asp Leu Gly Pro
35

<210> 64
<211> 41
<212> PRT
<213> artificial sequence

<400> 64
Thr Tyr Ala Met Gly Ala Ala Ile Ser Arg Arg Gly Asn Lys Thr Asp
1 5 10 15
Tyr Ala Glu Ser Val Lys Gly Cys Ala Ala Ser Ala Arg Asn Phe Ile
20 25 30
Gly Thr Gln Pro Leu Asp Tyr Asp Tyr
35 40

<210> 65
<211> 36
<212> PRT
<213> artificial sequence

<400> 65
Gly Tyr Phe Met Ala Gly Gly Ile Arg Trp Ser Asp Gly Val Pro His
1 5 10 15
Tyr Ala Asp Ser Val Lys Cys Ala Ser Arg Gly Ile Ala Asp Gly Ser
20 25 30
Asp Phe Gly Ser
35

<210> 66
<211> 39
<212> PRT
<213> artificial sequence

<400> 66
Ile Asn Ala Met Gly Ala Ala Ile Thr Lys Ser Asn Asn Ile Asn Tyr
1 5 10 15
Ala Asp Ser Asx Lys Gly Cys Asn Gly Phe Phe Thr Leu Pro Gly Tyr

Ser Ser Glu Glu Phe Gly Pro
 20 25 30
 35

<400>	67														
Glu	Val	Gln	Leu	Gln	Ala	Ser	Gly	Gly	Gly	Leu	Ala	Gln	Ala	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Thr	Ala	Ser	Gly	Arg	Thr	Phe	Ser	Thr	Tyr
			20					25					30		
Phe	Met	Ala	Trp	Phe	Arg	Gln	Pro	Pro	Gly	Lys	Glu	Arg	Glu	Tyr	Val
			35				40					45			
Gly	Gly	Ile	Arg	Trp	Ser	Asp	Gly	Val	Pro	His	Tyr	Ala	Asp	Ser	Val
						55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr
65					70					75					80
Leu	Gln	Met	Asn	Ser	Leu	Lys	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Phe	Cys
				85					90					95	
Ala	Ser	Arg	Gly	Ile	Ala	Asp	Gly	Ser	Asp	Phe	Gly	Ser	Tyr	Gly	Gln
			100					105					110		
Gly	Thr	Gln	Val	Thr	Val	Ser	Ser								
			115				120								

<400>	68														
Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1			5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ser	Ile	Phe	Ser	Ile	Lys
			20					25					30		
Ala	Met	Ala	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val
		35					40					45			
Ala	Tyr	Ile	Arg	Ser	Gly	Gly	Thr	Thr	Asn	Tyr	Ala	Asp	Ser	Val	Lys
	50					55					60				
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Ile	Ala	Lys	Asn	Thr	Val	Tyr	Leu
65					70					75					80
Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn
				85					90					95	
Ala	Asp	Tyr	Ser	Pro	Pro	Gly	Ser	Arg	Phe	Pro	Asp	Leu	Gly	Pro	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 69
 <211> 116
 <212> PRT
 <213> artificial sequence

<400> 69
 Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Ala Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Val Phe Ser Ala Asn
 20 25 30
 Thr Met Ala Trp Tyr Arg Arg Ala Pro Gly Lys Gln Arg Glu Leu Val
 35 40 45
 Ala Arg Ile Ser Thr Asp Gly Arg Thr Asn Tyr Ala Asp Ser Val Lys
 50 55 60
 Gly Arg Phe Thr Ile Ser Arg Asp Asn Arg Glu Lys Thr Val Phe Leu
 65 70 75 80
 Gln Met Asn Arg Leu Asn Pro Asp Asp Thr Ala Val Tyr Tyr Cys Asn
 85 90 95
 Ala Asn Trp Leu Ser Lys Phe Asp Tyr Trp Gly Gln Gly Thr Gln Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 70
 <211> 119
 <212> PRT
 <213> artificial sequence

<400> 70
 Asp Val Gln Leu Gln Ala Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Ser Ile Phe Ser Val Asn
 20 25 30
 Ala Val Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
 35 40 45
 Ala Tyr Ile Arg Arg Ser Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
 50 55 60
 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
 65 70 75 80
 Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
 85 90 95
 Ala Asp Phe Gly Ser Asp Tyr Val Val Leu Gly Ser Trp Gly Gln Gly
 100 105 110
 Thr Gln Val Thr Val Ser Ser
 115

<210> 71
 <211> 120
 <212> PRT
 <213> artificial sequence

<400> 71

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
1			5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ser	Ile	Phe	Ser	Ile	Lys
			20					25					30		
Ala	Leu	Ala	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val
		35				40					45				
Ala	Tyr	Ile	Thr	Ser	Gly	Gly	Asn	Thr	Asn	Tyr	Ala	Asp	Ser	Val	Arg
	50				55					60					
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu
65				70				75						80	
Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn
			85					90					95		
Ala	Asp	Phe	Gly	Glu	Gly	Thr	Ile	Ile	Ser	Leu	Gly	Pro	Trp	Gly	Gln
			100				105						110		
Gly	Thr	Gln	Val	Thr	Val	Ser	Ser								
		115				120									

<210> 72

<211> 120

<212> PRT

<213> artificial sequence

<400> 72

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1			5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ser	Glu	Phe	Ser	Ile	Asn
			20					25					30		
Ala	Met	Ala	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val
		35				40					45				
Ala	Ala	Leu	Thr	Ser	Gly	Gly	Asn	Thr	His	Tyr	Ala	Asp	Ser	Val	Lys
	50				55					60					
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Trp	Tyr	Leu
65				70				75						80	
Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn
			85					90					95		
Ala	Asp	Phe	Gly	Thr	Ala	Gly	Leu	Val	Val	Leu	Gly	Pro	Trp	Gly	Gln
			100				105						110		
Gly	Thr	Gln	Val	Thr	Val	Ser	Ser								
		115				120									

<210> 73

<211> 118

<212> PRT

<213> artificial sequence

<400> 73

Glu	Val	Gln	Leu	Gln	Ala	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1			5					10					15		

Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ser	Ile	Phe	Ser	Ile	Asn
			20					25					30		
Ala	Met	Ala	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val
		35					40					45			
Ala	Tyr	Ile	Arg	Ser	Asn	Gly	Arg	Thr	Asn	Tyr	Ala	Asp	Ser	Val	Lys
	50					55					60				
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu
65					70					75					80
Gln	Met	Asn	Ser	Leu	Lys	Leu	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn
			85					90						95	
Ala	Asp	Tyr	Gly	Pro	Pro	Val	Ser	Ile	Gly	Pro	Trp	Gly	Gln	Gly	Thr
			100					105					110		
Gln	Val	Thr	Val	Ser	Ser										
			115												

<210> 74
 <211> 118
 <212> PRT
 <213> artificial sequence

<400> 74															
Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
1			5					10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Val	Val	Ser	Gly	Ser	Leu	Leu	Ser	Ile	Lys
		20						25					30		
Ala	Met	Ala	Trp	Phe	Arg	Gln	Pro	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val
		35				40						45			
Ala	Ala	Val	Thr	Ser	Gly	Gly	Ser	Thr	His	Tyr	Leu	Asp	Ser	Val	Lys
	50					55					60				
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Asn	Thr	Val	His	Leu	Gln
65					70					75					80
Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn	Ala
			85					90					95		
Asp	Phe	Gly	Thr	Asp	Tyr	Val	Asp	Leu	Gly	Pro	Trp	Gly	Gln	Gly	Thr
			100					105					110		
Gln	Val	Thr	Val	Ser	Ser										
			115												

<210> 75
 <211> 122
 <212> PRT
 <213> artificial sequence

<400> 75															
Asp	Val	Gln	Leu	Gln	Ala	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1			5					10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Val	Ser	Gly	Ser	Ile	Phe	Ser	Ile	Asn
		20						25					30		
Ala	Met	Gly	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val
		35				40						45			

Ala	Ala	Ile	Thr	Lys	Ser	Asn	Asn	Ile	Asn	Tyr	Ala	Asp	Ser	Val	Lys
50						55					60				
Gly	Arg	Phe	Thr	Ile	Ser	Thr	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu
65					70					75					80
Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn
				85					90					95	
Gly	Phe	Phe	Ala	Leu	Pro	Gly	Tyr	Ser	Ser	Glu	Glu	Phe	Gly	Pro	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 76
 <211> 120
 <212> PRT
 <213> artificial sequence

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Val	Ala	Ser	Gly	Asn	Ile	Phe	Asp	Met	Asn
			20					25					30		
Arg	Met	Gly	Trp	Tyr	Arg	Gln	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val	
		35					40				45				
Ala	Asp	Ile	Arg	Asp	Gly	Gly	Ser	Thr	Ile	Tyr	Ser	Asp	Ser	Val	Lys
	50					55					60				
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Leu	Tyr	Leu
65					70					75					80
Gln	Met	Asn	Ser	Leu	Lys	Pro	Asp	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn
				85					90					95	
Ala	Gly	Arg	Thr	Gly	Asp	Arg	Phe	Asn	Leu	Val	Ala	Tyr	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Gln	Val	Thr	Val	Ser	Ser								
		115					120								

<210> 77
 <211> 124
 <212> PRT
 <213> artificial sequence

Asp	Val	Gln	Leu	Gln	Ala	Ser	Gly	Gly	Gly	Leu	Val	Gln	His	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Glu	Ala	Ser	Gly	Arg	Thr	Phe	Ser	Gly	Tyr
			20					25					30		
Ala	Met	Ala	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	His	Glu	Phe	Val
		35					40					45			
Ala	Ala	Ile	Ser	Ser	Ser	Ser	Asn	Ser	Ala	Pro	Tyr	Tyr	Ala	Asn	Ser
	50					55					60				
Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val
65					70					75					80

Tyr	Leu	Gln	Met	Asn	Asn	Leu	Gln	Thr	Glu	Asp	Thr	Ala	Val	Tyr	Tyr
				85					90					95	
Cys	Ala	Ala	Arg	Tyr	Gly	Thr	Lys	Arg	Tyr	Val	Ala	Arg	Glu	Tyr	Asp
			100					105					110		
Ser	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser				
		115					120								

<210> 78
 <211> 115
 <212> PRT
 <213> artificial sequence

<400> 78

Asp	Val	Gln	Leu	Gln	Ala	Ser	Gly	Gly	Gly	Val	Val	Gln	Ala	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Thr	Ala	Ser	Gly	Ser	Ile	Arg	Ser	Ile	Asn
			20					25					30		
Gly	Met	Gly	Trp	Ser	Arg	Val	Ala	Pro	Gly	Lys	Gln	Arg	Asp	Phe	Val
		35					40					45			
Ala	Arg	Ile	Asp	Ser	Arg	Gly	Ser	Ala	Tyr	Tyr	Ala	Asp	Ser	Val	Glu
	50					55					60				
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu
65				70						75				80	
Gln	Val	Asp	Thr	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Phe
			85					90					95		
Ala	Trp	Gln	Gly	Ala	Glu	Thr	Tyr	Trp	Gly	Leu	Gly	Thr	Gln	Val	Thr
			100					105					110		
Val	Ser	Ser													
			115												

<210> 79
 <211> 118
 <212> PRT
 <213> artificial sequence

<400> 79

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ser	Ile	Gly	Asp	Thr	Tyr
			20					25					30		
Ala	Met	Ala	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Asp	Leu	Val
		35					40					45			
Ala	Tyr	Ile	Thr	Asn	Gly	Gly	Ser	Thr	Asp	Tyr	Ala	Ala	Ser	Val	Lys
	50				55						60				
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu
65				70						75				80	
Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn
			85					90					95		
Gly	Ala	Thr	Arg	Gly	Ala	Gln	Leu	Val	Phe	Asp	Trp	Gly	Gln	Gly	Thr
			100					105					110		

Gln Val Thr Val Ser Ser
115

<210> 80
<211> 124
<212> PRT
<213> artificial sequence

<400> 80
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln His Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Gly Thr Phe Ser Asn Tyr
20 25 30
Ala Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45
Ala Ala Ile Ser Val Ser Ala Asn Ser Ala Pro Tyr Tyr Ala Asn Ser
50 55 60
Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val
65 70 75 80
Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr
85 90 95
Cys Ala Ala Arg Tyr Gly Thr Lys Arg Tyr Val Ala Arg Glu Tyr Asp
100 105 110
Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 81
<211> 115
<212> PRT
<213> artificial sequence

<400> 81
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ser Val Ser Leu Asn
20 25 30
Ala Met Gly Trp Ser Arg Val Gln Pro Gly Ser Thr Arg Asp Phe Val
35 40 45
Ala Arg Ile Ala Ala Asp Gly Ser Thr His Tyr Ala Asp Ser Val Glu
50 55 60
Gly Arg Phe Thr Ile Ser Gly Asp Ala Ala Arg Asn Thr Val Tyr Leu
65 70 75 80
Gln Met Asp Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Phe
85 90 95
Ala Trp Leu Gly Thr Asp Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr
100 105 110
Val Ser Ser
115

<210> 82

<211> 114
<212> PRT
<213> artificial sequence

<400> 82
Asp Val Gln Leu Gln Ala Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ser Ile Gly Asp Asn Asn
20 25 30
Ala Met Gly Trp Ser Arg Thr Pro Pro Gly Lys Gln Arg Glu Phe Val
35 40 45
Ala Arg Ile Asp Ser Gly Gly Ile Thr Arg Tyr Ala Asp Ser Leu Lys
50 55 60
Gly Arg Phe Thr Val Ser Arg Asp Thr Gly Lys Asn Thr Val Ser Leu
65 70 75 80
Gln Met Asn Ser Leu Lys Ala Glu Asp Thr Gly Val Tyr Tyr Cys Phe
85 90 95
Ala His Val Gly Gly Thr Ile Trp Gly Gln Gly Thr Gln Val Thr Val
100 105 110
Ser Ser

<210> 83
<211> 124
<212> PRT
<213> artificial sequence

<400> 83
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Leu Pro Ser Gly Gly Ile Phe Thr Ile Asn
20 25 30
Ser Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45
Ala Ser Ile Thr Gly Gly Gly Ser Ser Arg Tyr Ala Asp Ser Val Lys
50 55 60
Gly Arg Phe Ile Met Ser Arg Asp Asn Ala Lys Asn Met Val Tyr Leu
65 70 75 80
Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95
Thr Ile Pro Pro Ala Arg Thr Gln Ser Asp His Gly Glu Trp Tyr Asp
100 105 110
Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 84
<211> 118
<212> PRT
<213> artificial sequence

<400> 84

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Ser	Ser	Ile	Phe	Ser	Ile	Asn
			20					25					30		
Met	Ser	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Asn	Glu	Arg	Glu	Leu	Val	Ala
		35					40					45			
Thr	Ile	Thr	Arg	His	Asp	Ser	Thr	His	Tyr	Ser	Asp	Ser	Val	Lys	Gly
	50				55					60					
Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asp	Asp	Lys	Asn	Thr	Ile	Tyr	Leu	Gln
65					70				75					80	
Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ser	Gly
			85						90				95		
Phe	Phe	Leu	Asp	Gly	Ser	Thr	Trp	His	Pro	Tyr	Trp	Gly	Gln	Gly	Thr
		100					105					110			
Gln	Val	Thr	Val	Ser	Ser										
		115													

<210> 85

<211> 122

<212> PRT

<213> artificial sequence

<400> 85

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ser	Ile	Val	Ser	Ile	Asn
			20					25					30		
Ala	Met	Ala	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val
		35					40					45			
Ala	Tyr	Ile	Arg	Ser	Asn	Gly	Ser	Thr	Asn	Tyr	Ala	Asp	Ser	Val	Lys
	50				55				60						
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu
65					70				75					80	
Gln	Met	Asn	Ser	Leu	Lys	Leu	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn
			85					90					95		
Gly	Phe	Phe	Thr	Leu	Pro	Gly	Tyr	Ser	Ser	Glu	Glu	Phe	Gly	Pro	Trp
		100					105					110			
Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser						
		115				120									

<210> 86

<211> 123

<212> PRT

<213> artificial sequence

<400> 86

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Glu	Ser	Ile	Phe	Ser	Ile	Asn

			20					25					30			
Ala	Met	Gly	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Tyr	Val	
		35					40					45				
Ala	Gly	Ile	Thr	Lys	Gly	Gly	Arg	Thr	Asn	Tyr	Ala	Asp	Ser	Val	Lys	
	50					55					60					
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asp	Ala	Lys	Asn	Thr	Val	Tyr	Leu	
65					70					75					80	
Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn	
			85						90					95		
Gly	Leu	Cys	Ser	Gly	Arg	Glu	Cys	Tyr	Gly	Asp	Ser	Leu	Phe	Ala	Ala	
		100						105					110			
Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser						
		115					120									

<210> 87
 <211> 119
 <212> PRT
 <213> artificial sequence

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1			5					10					15			
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ser	Ile	Val	Ser	Ile	Asn	
		20						25				30				
Ala	Met	Ala	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val	
	35						40					45				
Ala	Tyr	Ile	Arg	Ser	Asn	Gly	Arg	Thr	Asn	Tyr	Ala	Asp	Ser	Val	Lys	
	50					55					60					
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu	
65					70					75					80	
Gln	Met	Asn	Ser	Leu	Lys	Leu	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ser	
			85						90					95		
Gly	Phe	Phe	Leu	Asp	Gly	Ser	Thr	Trp	His	Pro	Tyr	Trp	Gly	Gln	Gly	
		100						105					110			
Thr	Gln	Val	Thr	Val	Ser	Ser										
		115														

<210> 88
 <211> 123
 <212> PRT
 <213> artificial sequence

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Ala	Gln	Ala	Gly	Gly	
1			5					10					15			
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Asp	Asp	Tyr	
		20						25				30				
Ala	Ile	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Gly	Val	
	35						40					45				
Ser	Cys	Ile	Ser	Ser	Ser	Asp	Gly	Ser	Thr	His	Tyr	Ala	Asp	Ser	Val	

50		55		60
Lys Gly Arg Phe Thr	Ile Ser Arg Asp Asn	Ala Arg Asn Thr Val Thr		
65	70	75		80
Leu Gln Ile Asn Ser	Leu Lys Pro Glu Asp	Thr Ala Val Tyr Tyr Cys		
	85	90		95
Ala Thr Pro Trp Val	Thr Tyr Cys Pro	Glu Asn Leu Leu Phe Ser Tyr		
	100	105		110
Trp Gly Gln Gly Thr	Gln Val Thr Val Ser Ser			
	115	120		

<210> 89
 <211> 123
 <212> PRT
 <213> artificial sequence

<400> 89
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr
20 25 30
Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
35 40 45
Ser Cys Ile Thr Ser Ser Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Asn Asn Thr Val His
65 70 75 80
Leu Gln Ile Ser Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Thr Pro Trp Val Thr Tyr Cys Pro Glu Asn Leu Leu Phe Ser Tyr
100 105 110
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 90
 <211> 120
 <212> PRT
 <213> artificial sequence

<400> 90
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Thr Leu Ser Cys Ala Val Ser Gly Ser Ser Phe Ser Ile Lys
20 25 30
Ala Met Gly Trp Tyr Arg Leu Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45
Ala Ala Ile Thr Ser Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60
Gly Arg Phe Thr Ile Ser Arg Asp Ser Ala Lys Asn Thr Val Tyr Leu
65 70 75 80
Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn

				85					90					95		
Gly	Phe	Phe	Glu	Tyr	Arg	Gly	Leu	Glu	Gln	Leu	Gly	Pro	Trp	Gly	Gln	
			100					105					110			
Gly	Thr	Gln	Val	Thr	Val	Ser	Ser									
		115					120									

<210> 91
 <211> 120
 <212> PRT
 <213> artificial sequence

<400> 91

Asp	Val	Gln	Leu	Gln	Ala	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1				5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ser	Ile	Val	Gly	Ile	Arg	
			20					25					30			
Ala	Met	Thr	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val	
		35					40					45				
Ala	Val	Leu	Thr	Ser	Ala	Gly	Lys	Pro	Met	Tyr	Ala	Asp	Ser	Val	Lys	
	50					55					60					
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu	
65				70					75						80	
Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn	
			85					90						95		
Ala	Asp	Phe	Gly	Thr	Pro	Gly	Ser	Val	Val	Leu	Gly	Pro	Trp	Gly	Gln	
			100					105					110			
Gly	Thr	Gln	Val	Thr	Val	Ser	Ser									
		115					120									

<210> 92
 <211> 122
 <212> PRT
 <213> artificial sequence

<400> 92

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1				5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ser	Ile	Leu	Ser	Ile	Glu	
			20					25					30			
Ala	Met	Gly	Trp	Tyr	Arg	Gln	Thr	Leu	Gly	Lys	Gln	Arg	Glu	Leu	Val	
		35					40					45				
Ala	Ala	Ile	Thr	Ser	Gly	Asp	Ser	Thr	Asn	Tyr	Ala	Asp	Phe	Val	Lys	
	50				55						60					
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Lys	Ala	Lys	Asn	Met	Val	Tyr	Leu	
65				70					75						80	
Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Phe	Cys	Asn	
			85					90						95		
Ala	Leu	Met	Val	Val	Arg	Ala	Gly	Ser	Asn	Pro	Glu	Ile	Gly	Pro	Trp	
			100					105					110			
Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser							

115

120

<210> 93
 <211> 123
 <212> PRT
 <213> artificial sequence

<400> 93

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1			5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Asp	Asp	Tyr
		20					25					30			
Ala	Ile	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Gly	Val
		35				40					45				
Ser	Cys	Ile	Ser	Ser	Ser	Asp	Gly	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser	Val
	50				55					60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Asn	Asn	Thr	Val	His
65				70				75						80	
Leu	Gln	Ile	Ser	Asn	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85					90					95		
Ala	Thr	Pro	Trp	Val	Thr	Tyr	Cys	Pro	Glu	Asn	Leu	Leu	Phe	Ser	Tyr
		100					105					110			
Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser					
		115				120									

<210> 94
 <211> 115
 <212> PRT
 <213> artificial sequence

<400> 94

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1			5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Val	Val	Ser	Ala	Arg	Gly	Val	Ser	Leu	Asp
		20					25					30			
Ala	Val	Gly	Trp	Ser	Arg	Val	Ala	Pro	Gly	Lys	Gln	Arg	Asp	Phe	Val
		35				40					45				
Ala	Arg	Ile	Asp	Arg	Arg	Gly	Ser	Thr	Tyr	Tyr	Ala	Val	Ser	Val	Glu
	50				55				60						
Gly	Arg	Ser	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu
65				70				75						80	
Gln	Leu	Asp	Thr	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Phe
			85				90					95			
Ala	Trp	Gln	Gly	Ala	Glu	Thr	His	Trp	Gly	Leu	Gly	Thr	Gln	Val	Thr
		100					105					110			
Val	Ser	Ser													
		115													

<210> 95
 <211> 115

<212> PRT
<213> artificial sequence

<400> 95

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly	
1				5					10					15		
Ser	Leu	Thr	Leu	Ser	Cys	Val	Ala	Ser	Gly	Ser	His	Phe	Ser	Phe	Asn	
			20					25					30			
Asp	Met	Gly	Trp	Tyr	Arg	Gln	Asp	Pro	Trp	Lys	Gly	Arg	Asp	Leu	Val	
		35					40					45				
Ala	Ala	Ile	Thr	Ser	Ser	Arg	Asn	Thr	Leu	Tyr	Val	Asp	Ser	Val	Lys	
	50					55					60					
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asp	Ala	Lys	Asn	Thr	Val	Tyr	Leu	
65					70					75					80	
Gln	Met	Asn	Asn	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn	
			85						90					95		
Pro	Tyr	Pro	Ser	Pro	Asn	Asn	Tyr	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	
			100					105						110		
Val	Ser	Ser														
			115													

<210> 96
<211> 116
<212> PRT
<213> artificial sequence

<400> 96

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1				5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ser	Pro	Phe	Thr	Ile	Asn	
			20					25				30				
Ala	Met	Gly	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val	
		35					40					45				
Ala	Ala	Ile	Thr	Arg	Ser	Gly	Lys	Thr	Asn	Tyr	Ala	Asp	Ser	Val	Lys	
	50					55					60					
Gly	Arg	Phe	Thr	Ile	Ser	Gly	Asp	Asn	Ala	Leu	Thr	Thr	Val	Tyr	Leu	
65					70					75					80	
Gln	Met	Asn	Asn	Leu	Gln	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn	
			85					90						95		
Gly	Phe	Tyr	Gly	Ser	Glu	Phe	Gly	Pro	Trp	Gly	Gln	Gly	Thr	Gln	Val	
			100					105						110		
Thr	Val	Ser	Ser													
			115													

<210> 97
<211> 124
<212> PRT
<213> artificial sequence

<400> 97

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
1				5				10						15	
Ser	Ala	Thr	Leu	Ser	Cys	Ser	Ala	Pro	Gly	Asp	Thr	Leu	Ser	Arg	Tyr
			20					25						30	
Ala	Val	Gly	Trp	Phe	Arg	Gln	Gly	Pro	Gly	Gln	Glu	Arg	Asp	Phe	Val
		35					40					45			
Ala	Ser	Ile	Thr	Trp	Ser	Gly	Asp	Tyr	Thr	Tyr	Tyr	Lys	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Ser	Val	Asn	Asn	Met	Val	Tyr
65					70					75					80
Leu	Arg	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Leu	Tyr	Tyr	Cys
			85						90					95	
Ala	Ala	Asp	Lys	Ser	Ser	Phe	Arg	Leu	Arg	Gly	Pro	Gly	Leu	Tyr	Asp
			100					105					110		
Tyr	Arg	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser				
		115					120								

<210> 98
 <211> 123
 <212> PRT
 <213> artificial sequence

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Asp	Tyr	Tyr
			20					25					30		
Ala	Ile	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Gly	Val
		35					40					45			
Ser	Cys	Ile	Ser	Ser	Arg	Asp	Gly	Thr	Thr	His	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr
65					70					75					80
Leu	Gln	Ile	Asp	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90				95		
Ala	Thr	Pro	Trp	Val	Thr	Tyr	Cys	Pro	Glu	Asn	Leu	Leu	Phe	Ser	Tyr
			100					105					110		
Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser					
		115					120								

<210> 99
 <211> 125
 <212> PRT
 <213> artificial sequence

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Phe	Val	Gln	Pro	Gly	Gly
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Ser	Leu	His	Tyr	Tyr
			20					25					30		

Ala	Ile	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Trp	Val
		35					40					45			
Ser	Ala	Ile	Ser	Asn	Ile	Asp	Asp	Asp	Thr	Tyr	Tyr	Glu	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Ala	Tyr
65					70					75					80
Leu	Gln	Met	Asn	Asn	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Ala	Asp	Lys	Asp	Val	Val	Val	Val	Arg	Thr	Gly	Leu	Ser	Glu	Ser
			100					105					110		
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser			
		115					120					125			

<210> 100
 <211> 120
 <212> PRT
 <213> artificial sequence

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
1			5					10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ser	Ile	Phe	Gly	Ile	Asn
			20					25					30		
Ala	Met	Ala	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val
		35					40					45			
Ala	Val	Ile	Thr	Ser	Gly	Gly	Arg	Thr	Met	Tyr	Ala	Glu	Ser	Val	Lys
	50					55					60				
Gly	Arg	Phe	Ala	Ile	Ser	Arg	Asp	Val	Ala	Lys	Asn	Thr	Val	Tyr	Leu
65				70					75						80
Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn
				85				90						95	
Gly	Asp	Trp	Gly	Ser	Glu	Gly	Arg	Val	Asp	Leu	Gly	Pro	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Gln	Val	Thr	Val	Ser	Ser								
		115					120								

<210> 101
 <211> 129
 <212> PRT
 <213> artificial sequence

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1			5					10						15	
Thr	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ser	Ile	Arg	Ser	Ile	Gly
			20					25					30		
Asp	Met	Glu	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Gln	Gln	Arg	Glu	Leu	Val
		35					40					45			
Ala	Ser	Ile	Ser	Ala	Gly	Pro	Glu	Met	Arg	Ser	Ala	Gly	Thr	Pro	Thr
	50					55					60				

Tyr	Ala	Lys	Ser	Val	Glu	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ile
65					70					75				80	
Lys	Asn	Met	Met	Trp	Leu	Gln	Met	Asn	Ser	Leu	Arg	Pro	Glu	Asp	Thr
				85					90					95	
Ala	Val	Tyr	Ser	Cys	Asn	Ala	Asp	Val	Leu	Thr	Tyr	Tyr	Asn	Gly	Arg
			100					105					110		
Tyr	Ser	Arg	Asp	Val	Tyr	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser
		115					120					125			

Ser

<210> 102
 <211> 118
 <212> PRT
 <213> artificial sequence

<400> 102

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Ser	Ser	Ile	Phe	Ser	Ile	Asn
			20					25					30		
Met	Ser	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Asn	Glu	Arg	Glu	Leu	Val	Ala
		35					40					45			
Thr	Ile	Thr	Arg	His	Asp	Ser	Thr	His	Tyr	Ser	Asp	Ser	Val	Lys	Gly
	50				55						60				
Arg	Phe	Ala	Ile	Ser	Arg	Asp	Asp	Asp	Lys	Asn	Thr	Ile	Tyr	Leu	Gln
65					70				75					80	
Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ser	Gly
				85					90				95		
Phe	Phe	Leu	Asp	Gly	Ser	Thr	Trp	Arg	Pro	Tyr	Trp	Gly	Gln	Gly	Thr
			100					105					110		
Gln	Val	Thr	Val	Ser	Ser										
			115												

<210> 103
 <211> 124
 <212> PRT
 <213> artificial sequence

<400> 103

Asp	Val	Gln	Leu	Gln	Ala	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Arg	Thr	Leu	Ser	Gly	Tyr
			20					25					30		
Ala	Val	Ala	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Phe	Val
		35					40					45			
Ala	Ala	Ile	Ser	Ser	Ser	Asp	Asn	Ser	Ser	Pro	Tyr	Tyr	Ala	Asn	Val
	50					55				60					
Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val
65					70				75					80	

Tyr	Leu	Gln	Met	Asn	Ser	Leu	Gln	Thr	Glu	Asp	Thr	Ala	Leu	Tyr	Tyr
			85						90					95	
Cys	Ala	Ala	Arg	Tyr	Gly	Thr	Lys	Arg	Tyr	Val	Ala	Arg	Glu	Tyr	Asp
			100					105					110		
Ser	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser				
		115					120								

<210> 104
 <211> 122
 <212> PRT
 <213> artificial sequence

<400> 104

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1			5					10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Arg	Ser	Ile	Phe	Ser	Ile	Asn
			20					25					30		
Ala	Met	Ala	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val
		35					40					45			
Ala	Tyr	Ile	Arg	Ser	Ser	Gly	Thr	Thr	Met	Tyr	Ala	Asp	Ser	Val	Lys
	50					55					60				
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu
65				70						75					80
Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn
			85					90						95	
Gly	Asp	Tyr	Ser	Pro	Pro	Gly	Ser	Thr	Tyr	Pro	Asp	Leu	Gly	Pro	Trp
			100				105						110		
Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 105
 <211> 245
 <212> PRT
 <213> artificial sequence

<400> 105

Glu	Val	Gln	Leu	Gln	Ala	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1			5					10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Asp	Asp	Tyr
			20					25					30		
Ala	Ile	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Gly	Val
		35					40					45			
Ser	Cys	Ile	Thr	Ser	Ser	Asp	Gly	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Asn	Asn	Thr	Val	His
65				70						75					80
Leu	Gln	Ile	Ser	Asn	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85					90						95	
Ala	Thr	Pro	Trp	Val	Asn	Tyr	Cys	Pro	Glu	Asn	Leu	Leu	Phe	Ser	Tyr
			100					105					110		

Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Gln	Ala	Gln	Val	Gln
		115					120					125			
Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Ala	Gln	Ala	Gly	Gly	Ser	Leu	Arg
	130					135					140				
Leu	Ser	Cys	Thr	Ala	Ser	Gly	Arg	Thr	Phe	Ser	Thr	Tyr	Phe	Met	Ala
145					150					155					160
Trp	Phe	Arg	Gln	Pro	Pro	Gly	Lys	Glu	Arg	Glu	Tyr	Val	Gly	Gly	Ile
			165						170					175	
Arg	Trp	Ser	Asp	Gly	Val	Pro	His	Tyr	Thr	Asp	Ser	Val	Lys	Gly	Arg
		180					185						190		
Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu	Gln	Met
	195					200						205			
Asn	Ser	Leu	Lys	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Phe	Cys	Ala	Ser	Arg
	210				215						220				
Gly	Ile	Ala	Asp	Gly	Ser	Asp	Phe	Gly	Ser	Tyr	Gly	Gln	Gly	Thr	Gln
225					230					235					240
Val	Thr	Val	Ser	Ser											
				245											

<210> 106
 <211> 116
 <212> PRT
 <213> artificial sequence

<400> 106

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Gly	Ala	Ser	Gly	Ile	Ile	Phe	Ser	Ala	Thr
		20					25					30			
Thr	Met	Ala	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val
	35					40					45				
Ala	Leu	Ile	Thr	Ser	Asp	Trp	His	Thr	Lys	Tyr	Ala	Asp	Ser	Val	Lys
	50				55					60					
Asp	Arg	Phe	Ser	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Ser	Thr	Val	His	Leu
65				70					75					80	
Gln	Met	Asn	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Phe	Cys	Tyr
		85						90					95		
Ala	Arg	Gln	Ala	Phe	Ser	Glu	Pro	Arg	Trp	Gly	Gln	Gly	Thr	Gln	Val
		100					105					110			
Thr	Val	Ser	Ser												
		115													

<210> 107
 <211> 115
 <212> PRT
 <213> artificial sequence

<400> 107

Gln	Val	Gln	Leu	Val	Asp	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ser Gly Arg Ile Asp
 20 25 30
 Ala Met Gly Trp Ser Arg Val Ala Pro Gly Lys Gln Arg Asp Phe Val
 35 40 45
 Ala Arg Leu Gly Ser Asn Gly Phe Thr Gln Tyr Asp Ile Ser Val Glu
 50 55 60
 Gly Arg Phe Thr Ile Ser Gly Asp Val Ala Lys Asn Thr Ile Tyr Leu
 65 70 75 80
 Gln Met Asp Thr Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Phe
 85 90 95
 Ala Trp Leu Gly Gln Asp Thr Val Trp Gly Gln Gly Thr Gln Val Thr
 100 105 110
 Val Ser Ser
 115

<210> 108
 <211> 124
 <212> PRT
 <213> artificial sequence

<400> 108
 Gln Val Gln Leu Val Asp Ser Gly Gly Gly Leu Val Lys Ala Gly Ala
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Asp Ala Leu Phe Asn Tyr
 20 25 30
 Ala Met Gly Trp Phe Arg Gln Gly Pro Gly Lys Glu Arg Asp Phe Val
 35 40 45
 Ala Ser Val Thr Arg Ser Gly Asp Asn Thr Tyr Tyr Lys Asp Ser Ala
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Asn Thr Val Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys
 85 90 95
 Ala Ala Asp Lys Ser Ser Phe Arg Leu Arg Gly Pro Gly Val Tyr Asp
 100 105 110
 Tyr Arg Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 109
 <211> 126
 <212> PRT
 <213> artificial sequence

<400> 109
 Asp Val Gln Leu Val Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Ser Asp Gly Arg Val Met
 20 25 30
 Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Gln Gln Arg Asp Leu Val
 35 40 45

Ala	Ser	Ile	Thr	Ser	Ala	Asp	Tyr	Thr	Thr	Tyr	Ala	Glu	Ser	Val	Glu
50						55					60				
Gly	Arg	Phe	Thr	Ile	Ser	Thr	Asp	Asn	Asn	Lys	Asn	Thr	Val	Tyr	Leu
65					70					75					80
Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Phe	Cys	Lys
				85					90					95	
Val	Ile	Ala	Ala	Thr	Val	Trp	Gly	Gln	Glu	Thr	Gln	Val	Arg	Gln	Gly
			100					105					110		
Leu	Thr	Phe	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser		
		115					120					125			

<210> 110
 <211> 120
 <212> PRT
 <213> artificial sequence

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Val	Ala	Ser	Gly	Ser	Ile	Ser	Ser	Ala	Arg
			20					25					30		
Ser	Met	Thr	Trp	Tyr	Arg	Gln	Ala	Leu	Gly	Lys	Gln	Arg	Glu	Leu	Val
		35					40					45			
Ala	Val	Ile	Met	Gly	Gly	Gly	Ser	Thr	Met	Tyr	Ala	Asp	Ser	Val	Lys
		50				55					60				
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu
65					70					75					80
Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn
				85					90					95	
Ala	Asp	Trp	Gly	Gly	Val	Gly	Phe	Pro	Asn	Leu	Gly	Pro	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Gln	Val	Thr	Val	Ser	Ser								
		115					120								

<210> 111
 <211> 123
 <212> PRT
 <213> artificial sequence

Asp	Val	Gln	Leu	Gln	Ala	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ile	Gly	Asp
1				5					10					15	
Ser	Val	Arg	Leu	Ser	Cys	Ile	Ala	Ser	Gly	Gly	Thr	Phe	Arg	Thr	Tyr
			20					25					30		
Ala	Ile	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Ala	Glu	Arg	Glu	Phe	Val
		35					40					45			
Ala	Ala	Ile	Ser	Arg	Arg	Gly	Asn	Lys	Asp	Tyr	Ala	Glu	Ser	Val	Lys
		50				55					60				
Gly	Arg	Phe	Thr	Val	Ser	Arg	Asp	Asn	Ala	Glu	Asn	Thr	Val	Tyr	Leu
65					70					75					80

Gln	Met	Asn	Ser	Leu	Lys	Pro	Asp	Asp	Met	Gly	Val	Tyr	Tyr	Cys	Ala
				85					90					95	
Ala	Ser	Ala	Arg	Asn	Phe	Ile	Gly	Thr	Gln	Pro	Leu	Asp	Tyr	Asp	Tyr
			100					105					110		
Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser					
		115					120								

<210> 112
 <211> 122
 <212> PRT
 <213> artificial sequence

<400> 112

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Trp	Asn	Leu	Gly	Asn	Tyr
			20					25					30		
Ala	Leu	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Phe	Val
		35					40					45			
Ala	Ala	Ile	Asp	Trp	Arg	His	Ser	Ser	Tyr	Tyr	Ala	Asp	Ser	Val	Lys
	50					55					60				
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Thr	Lys	Asn	Met	Val	Tyr	Leu
65				70					75					80	
Gln	Met	Ser	Ser	Leu	Lys	Leu	Glu	Asp	Thr	Arg	Leu	Tyr	Tyr	Cys	Ala
			85					90						95	
Ala	Ser	Ser	Leu	Phe	Pro	Ser	Ser	Ala	Pro	Arg	Gln	Tyr	Asp	Tyr	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 113
 <211> 123
 <212> PRT
 <213> artificial sequence

<400> 113

Asp	Val	Gln	Leu	Val	Asp	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Val	Ala	Ser	Gly	Arg	Thr	Phe	Ser	Asn	Tyr
			20					25					30		
Ala	Met	Gly	Trp	Tyr	Arg	Arg	Arg	Pro	Gly	Leu	Glu	Arg	Glu	Phe	Val
		35					40					45			
Ala	Ala	Ile	Val	Gly	Ser	Gly	Asp	Ser	Thr	Arg	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr
65				70					75					80	
Leu	Gln	Met	Asn	Thr	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85					90					95		
Ala	Ser	Ser	Ser	Asp	Pro	Arg	Val	Tyr	Ile	Ala	Ser	Thr	Leu	Asp	Tyr
			100					105					110		

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 114
<211> 119
<212> PRT
<213> artificial sequence

<400> 114
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Met Phe
20 25 30
Ile Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val
35 40 45
Ala Ala Ile Ser Arg Asn Ser Asn Leu Thr Tyr Tyr Phe Gln Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Lys Leu Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Asn Ala Asp Tyr Gly Pro Pro Val Ser Ile Gly Pro Trp Gly Gln Gly
100 105 110
Thr Gln Val Thr Val Ser Ser
115

<210> 115
<211> 122
<212> PRT
<213> artificial sequence

<400> 115
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Trp Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Val Val Ser Gly Arg Ile Leu Ser Ile Lys
20 25 30
Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Tyr Val
35 40 45
Ala Gly Ile Val Ser Ser Gly Asn Thr Asn Tyr Ala Asp Phe Val Lys
50 55 60
Gly Arg Phe Thr Ile Ser Gly Asp Asn Ala Lys Asn Thr Val Phe Leu
65 70 75 80
Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95
Ala Leu Val Val Val Thr Ser Ala Ser Gly Pro Glu Leu Ala Ser Trp
100 105 110
Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 116

<211> 122
<212> PRT
<213> artificial sequence

<400> 116
Asp Val Gln Leu Val Asp Ser Gly Gly Gly Leu Ala Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Arg Thr Phe Ser Thr Tyr
20 25 30
Phe Met Ala Trp Phe Arg Gln Pro Pro Gly Lys Gln Arg Glu Leu Val
35 40 45
Ala Tyr Ile Arg Ser Gly Gly Thr Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60
Gly Arg Phe Thr Ile Ser Arg Asp Ile Ala Lys Asn Thr Val Tyr Leu
65 70 75 80
Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95
Ala Asp Tyr Ser Pro Pro Gly Ser Arg Phe Pro Asp Leu Gly Pro Trp
100 105 110
Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 117
<211> 121
<212> PRT
<213> artificial sequence

<400> 117
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Asp Asn Tyr
20 25 30
Ala Ile Ala Trp Phe Arg Gln Ala Pro Gly Arg Glu Arg Glu Trp Val
35 40 45
Ser Ser Thr Gly Ser Asp Gly Asn Leu Tyr Thr Pro Ser Val Arg Gly
50 55 60
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
65 70 75 80
Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Val Ala
85 90 95
Gly Lys Arg Pro Val Ile Thr Thr Trp Ile Ala Leu Asp Ala Trp Gly
100 105 110
Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 118
<211> 115
<212> PRT
<213> artificial sequence

<400> 118

Asp	Val	Gln	Leu	Val	Asp	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
1			5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Thr	Phe	Ser	Ser	Ile	Asp
			20					25					30		
Ser	Met	Arg	Trp	Phe	Arg	Arg	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Phe	Val
		35					40					45			
Ala	His	Ile	Thr	Ser	Thr	Gly	Arg	Thr	Asn	Tyr	Ala	Asp	Ala	Val	Lys
	50					55					60				
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Met	Trp	Leu
65					70					75					80
Gln	Met	Asp	Asn	Leu	Lys	Pro	Asp	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn
				85					90					95	
Met	Val	Thr	Thr	Pro	Tyr	Met	His	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr
			100					105						110	
Val	Ser	Ser													
			115												

<210> 119

<211> 115

<212> PRT

<213> artificial sequence

<400> 119

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
1			5					10					15		
Ser	Leu	Lys	Leu	Ser	Cys	Val	Ala	Ser	Gly	Ser	Arg	Phe	Ser	Glu	Asn
			20					25					30		
Ala	Met	Gly	Trp	Tyr	His	Gln	Ala	Pro	Asp	Lys	Gln	Arg	Thr	Leu	Val
		35					40					45			
Ala	Ala	Ile	Thr	Ser	Ser	Arg	Ser	Thr	Leu	Tyr	Ile	Asp	Ser	Val	Lys
	50					55					60				
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu
65					70					75					80
Gln	Met	Ser	Asn	Leu	Lys	Pro	Glu	Asp	Thr	Gly	Val	Tyr	Tyr	Cys	Asn
			85						90					95	
Pro	Tyr	Pro	Ser	Pro	Asn	Ser	Tyr	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr
			100					105						110	
Val	Ser	Ser													
			115												

<210> 120

<211> 116

<212> PRT

<213> artificial sequence

<400> 120

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1			5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Leu	Val	Phe	Ser	Ala	Asn

			20					25					30			
Lys	Met	Gly	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val	
		35					40					45				
Ala	Arg	Ile	Ser	Thr	Asp	Gly	Arg	Thr	Asn	Tyr	Ala	Asp	Ser	Val	Lys	
	50					55					60					
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Glu	Lys	Thr	Val	Phe	Leu	
65				70						75				80		
Gln	Met	Asn	Ser	Leu	Asn	Pro	Asp	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn	
			85					90					95			
Ala	Asn	Trp	Leu	Asp	Lys	Tyr	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Gln	Val	
		100					105						110			
Thr	Val	Ser	Ser													
		115														

<210> 121
 <211> 120
 <212> PRT
 <213> artificial sequence

<400> 121																
Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Glu	Pro	Gly	Gly	
1			5					10					15			
Ser	Leu	Arg	Leu	Ser	Cys	Val	Ala	Ser	Gly	Ser	Ile	Ser	Ser	Ala	Arg	
		20					25					30				
Ser	Met	Thr	Trp	Tyr	Arg	Gln	Ala	His	Gly	Lys	Gln	Arg	Glu	Leu	Val	
	35					40					45					
Ala	Val	Ile	Thr	Ser	Gly	Gly	Ser	Thr	Met	Tyr	Ala	Asp	Ser	Val	Lys	
	50				55						60					
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Ser	Ala	Lys	Asn	Thr	Val	Tyr	Leu	
65				70						75				80		
Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn	
			85					90					95			
Ala	Asp	Trp	Gly	Glu	Val	Gly	Phe	Val	Asn	Leu	Gly	Pro	Trp	Gly	Gln	
		100					105						110			
Gly	Thr	Gln	Val	Thr	Val	Ser	Ser									
		115				120										

<210> 122
 <211> 121
 <212> PRT
 <213> artificial sequence

<400> 122																
Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1			5					10					15			
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ser	Ile	Phe	Gly	Phe	Asn	
		20					25					30				
Gly	Val	Ala	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Arg	Glu	Leu	Val	
	35					40					45					
Ala	Val	Ile	Arg	Ser	Gly	Gly	Asn	Thr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	

50		55		60
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln				
65		70		75
Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Val				
	85		90	
Asp Tyr Ser Pro Pro Gly Ser Leu Val Pro Asp Leu Gly Pro Trp Gly				
	100		105	
Gln Gly Thr Gln Val Thr Val Ser Ser			110	
	115		120	

<210> 123
 <211> 123
 <212> PRT
 <213> artificial sequence

<400> 123
Glu Val Gln Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Ser Ile Asn
20 25 30
Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45
Ala Ala Ile Thr Arg Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80
Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Ser Cys Asn
85 90 95
Gly Leu Cys Ser Asp Asp Arg Cys Tyr Gly Asp Ser Leu Phe Ala Pro
100 105 110
Trp Gly Pro Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 124
 <211> 118
 <212> PRT
 <213> artificial sequence

<400> 124
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Leu Val Ser Gly Arg Gly Val Ser Leu Asp
20 25 30
Ala Val Gly Trp Ser Arg Val Ala Pro Gly Lys Gln Arg Asp Phe Val
35 40 45
Ala Arg Ile Asp Ser Arg Gly Ser Ala Tyr Tyr Ala Asp Ser Val Glu
50 55 60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80
Gln Val Asp Thr Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Phe

115

120

<210> 127
 <211> 123
 <212> PRT
 <213> artificial sequence

<400> 127
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Ala Gln Ala Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Arg Thr Phe Ser Thr Tyr
 20 25 30
 Phe Met Ala Trp Phe Arg Gln Pro Pro Gly Lys Glu Arg Glu Tyr Val
 35 40 45
 Gly Gly Ile Arg Trp Ser Asp Gly Val Pro His Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Asn Ala Asp Tyr Ser Pro Pro Gly Ser Arg Phe Pro Asp Leu Gly Pro
 100 105 110
 Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 128
 <211> 119
 <212> PRT
 <213> artificial sequence

<400> 128
 Glu Val Gln Leu Gln Ala Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Ser Ile Phe Ser Ile Lys
 20 25 30
 Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
 35 40 45
 Ala Tyr Ile Arg Ser Gly Gly Thr Thr Asn Tyr Ala Asp Ser Val Lys
 50 55 60
 Gly Arg Phe Thr Ile Ser Arg Asp Ile Ala Lys Asn Thr Val Tyr Leu
 65 70 75 80
 Gln Met Asn Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Phe Cys Ala
 85 90 95
 Ser Arg Gly Ile Ala Asp Gly Ser Asp Phe Gly Ser Tyr Gly Gln Gly
 100 105 110
 Thr Gln Val Thr Val Ser Ser
 115

<210> 129
 <211> 122

<212> PRT
<213> artificial sequence

<400> 129
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Ala
1 5 10 15
Ser Val Arg Leu Ser Cys Ala Ala Ser Gly Arg Ala Asn Ser Leu Tyr
20 25 30
Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
35 40 45
Ala Tyr Ile Arg Ser Gly Gly Thr Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60
Gly Arg Phe Thr Ile Ser Arg Asp Ile Ala Lys Asn Thr Val Tyr Leu
65 70 75 80
Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95
Ala Asp Tyr Ser Pro Pro Gly Ser Arg Phe Pro Asp Leu Gly Pro Trp
100 105 110
Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 130
<211> 124
<212> PRT
<213> artificial sequence

<400> 130
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ile Gly Asp
1 5 10 15
Ser Val Arg Leu Ser Cys Ile Ala Ser Gly Gly Thr Phe Arg Thr Tyr
20 25 30
Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Ala Glu Arg Glu Phe Val
35 40 45
Ala Ala Ile Ser Arg Arg Gly Asn Lys Thr Asp Tyr Ala Glu Ser Val
50 55 60
Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ala Glu Asn Thr Val Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Lys Pro Asp Asp Met Gly Val Tyr Tyr Cys
85 90 95
Ala Ala Ser Ala Arg Asn Phe Ile Gly Thr Gln Pro Leu Asp Tyr Asp
100 105 110
Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 131
<211> 120
<212> PRT
<213> artificial sequence

<400> 131

Gln	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Met	Val	Gln	Ala	Gly	Gly
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Val	Ala	Ser	Gly	Arg	Ser	Phe	Val	Gly	Tyr
			20					25					30		
Phe	Met	Ala	Trp	Phe	Arg	Gln	Pro	Pro	Gly	Lys	Glu	Arg	Glu	Tyr	Val
		35					40					45			
Gly	Gly	Ile	Arg	Trp	Ser	Asp	Gly	Val	Pro	His	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr
65					70				75					80	
Leu	Gln	Met	Asn	Ser	Leu	Lys	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Phe	Cys
			85					90					95		
Ala	Ser	Arg	Gly	Ile	Ala	Asp	Gly	Ser	Asp	Phe	Gly	Ser	Tyr	Gly	Gln
			100					105					110		
Gly	Thr	Gln	Val	Thr	Val	Ser	Ser								
		115					120								

<210> 132
 <211> 122
 <212> PRT
 <213> artificial sequence

Gln	Val	Lys	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1			5					10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ser	Ile	Phe	Ser	Ile	Asn
			20					25					30		
Ala	Met	Gly	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Leu	Val
		35					40					45			
Ala	Ala	Ile	Thr	Lys	Ser	Asn	Asn	Ile	Asn	Tyr	Ala	Asp	Ser	Val	Lys
	50					55				60					
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu
65				70					75					80	
Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn
			85					90					95		
Gly	Phe	Phe	Thr	Leu	Pro	Gly	Tyr	Ser	Glu	Glu	Phe	Gly	Pro	Trp	
			100					105				110			
Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 133
 <211> 360
 <212> DNA
 <213> artificial sequence

<400> 133	
gaggtacagc tgggtggaatc tgggggagga ttggcgcagg ctgggggctc tctgagactc	60
tcctgtacag cctctggacg caccttcagt acctatttca tggcctgggtt ccgccagcct	120
ccagggaaag agcgtgaata cgtaggcggt attaggtgga gtgatgggtgt tccacactat	180
gcagactccg tgaagggccg attcaccatc tccagagaca acgccaagaa cacggtgtat	240

ttgcaaatga	acagcctgaa	atctgaggac	acggccgttt	atTTTTgtgc	atcacggggt	300
attgcggatg	gatctgactt	tggttcctac	ggccagggga	cccaggtcac	cgtctcctca	360

<210> 134
 <211> 360
 <212> DNA
 <213> artificial sequence

<400> 134	
gaggtaacagc	60
tcctgtacag	120
ccagggaag	180
gcagactccg	240
ttgcaaatga	300
attgcggatg	360

<210> 135
 <211> 348
 <212> DNA
 <213> artificial sequence

<400> 135	
caggtaaagc	60
tcctgtgcag	120
ccagggaagc	180
gactccgtga	240
caaataaaca	300
agtaaatttg	348

<210> 136
 <211> 357
 <212> DNA
 <213> artificial sequence

<400> 136	
caggtaaagc	60
tcctgtgtag	120
ccagggaaac	180
gactccgtga	240
caaataaaca	300
agcgactatg	357

<210> 137
 <211> 360
 <212> DNA
 <213> artificial sequence

<400> 137	
caggtaaagc	60
tcctgtgcag	120

ccagggaagc	agcgcgagtt	ggtcgcatat	attactagt	gtggtaacac	aaactatgca	180
gactccgtga	ggggccgatt	caccatctcc	agagacaacg	ccaagaacac	ggtatatctg	240
caaatgaaca	gcctgaaacc	tgaggacaca	gccgtctatt	actgtaatgc	agatttcgga	300
gaagggaacta	tcatatccct	tggaccctgg	ggccagggga	cccaggtcac	cgtctcctca	360

<210> 138
 <211> 360
 <212> DNA
 <213> artificial sequence

<400> 138	
caggtaaagc	tggaggagtc tgggggaggc ttggtgcagc ctgggggggtc tctgagactc 60
tcctgtgcag	cctctggaag cgaattcagt atcaatgccca tggcgtggta ccgccaggct 120
ccagggaagc	agcgcgagtt ggtcgcagca cttactagtgt gtggtaacac tcactatgcg 180
gactccgtga	agggccgatt caccatctcc agagacaacg ccaagaacac gtggtatctg 240
caaatgaaca	gcctgaaacc tgaggacacg gccgtctatt actgtaatgc agatttcgga 300
actgcgggtt	tggtagtgct gggtcctctgg ggccagggga cccaggtcac cgtctcctca 360

<210> 139
 <211> 354
 <212> DNA
 <213> artificial sequence

<400> 139	
caggtaaagc	tggaggagtc tgggggaggc ttggtgcagc ctgggggggtc tctgagactc 60
tcctgtgcag	cctctggaag catcgtcagt atcaatgccca tggcctggta ccgccaggct 120
ccagggaagc	agcgcgagtt ggtcgcatat attcgtagta atggccgcac aaactatgca 180
gactccgtga	agggccgatt caccatttcc agagacaacg ccaagaacac ggtgtatctg 240
caaatgaaca	gcctgaaact tgaggacacg gccgtctatt actgtaatgc agactacggg 300
cctccagtat	ccatttgggtcc ttggggccag gggacccagg tcaccgtctc ctca 354

<210> 140
 <211> 354
 <212> DNA
 <213> artificial sequence

<400> 140	
caggtaaagc	tggaggagtc tgggggaggc ttggtgcagg ctgggggggtc tctgagactc 60
tcctgtgtag	tctctggaag tctcctcagt atcaaaagcca tggcctgggt ccgccagcct 120
ccagggaagc	agcgcgagtt ggtcgcagct gttactagtgt gtggaagcac acactattta 180
gactccgtga	agggccgatt caccatctcc agagacaacg ccaacacggg gcatctgcaa 240
atgaacagcc	tgaaacctga ggacacagct gtctattact gtaatgcaga tttcgggtact 300
gactatgtcg	acttagggcc ctggggccag gggacccagg tcaccgtctc ctca 354

<210> 141
 <211> 366
 <212> DNA
 <213> artificial sequence

<400> 141

caggtaaagc	tggaggagtc	tgggggaggc	ttggtgcagc	ctgggggggtc	tctgagactc	60
tcctgtgcag	tctctggaag	catcttcagt	atcaatgccca	tgggctggta	ccgccaggct	120
ccagggaaac	agcgcgagtt	ggtcgcagct	attactaaaa	gtaataacat	aaactatgca	180
gactccgtga	agggccgatt	caccatctcc	acagacaacg	ccaagaacac	ggtgtatctg	240
caaatgaaca	gcctgaaacc	tgaggacacg	gccgtctatt	actgtaatgg	attcttcgct	300
ttgcctgggt	acagtagtga	agaatttggg	ccctggggcc	aggggaccca	ggtcaccgtc	360
tcctca						366

<210> 142
 <211> 360
 <212> DNA
 <213> artificial sequence

<400> 142						
gaggtacagc	tgggtggaatc	tgggggaggc	ttggtgcagc	ctgggggggtc	tctgagactc	60
tcctgtgtag	cctctggaaa	catcttcgat	atgaatcgga	tgggctggta	ccgccagcct	120
ccagggaagc	agcgcgagtt	ggtcgcagat	attcgtgatg	gcggttctac	aatttattca	180
gattccgtga	agggccgatt	caccatctcc	agagacaacg	ccaagaacac	gctgtatctg	240
caaatgaaca	gcctgaaacc	tgacgacaca	gccgtgtatt	attgtaatgc	ggggcgggaca	300
ggggatcggt	ttaatttggg	ggcgtattgg	ggccagggga	cccagggtcac	cgtctcctca	360

<210> 143
 <211> 372
 <212> DNA
 <213> artificial sequence

<400> 143						
gatgtgcagc	tgcaggcgctc	tgggggaggc	ttggtgcagc	acgggggggtc	tctgagactc	60
tcctgtgaag	cctctggacg	caccttcagt	ggctatgccca	tggcctgggt	ccgccaggct	120
ccaggaaagg	aacatgaatt	tgtagcagct	attagctcaa	gtagtaatag	tgccccatac	180
tatgcaaat	ccgtgaagg	ccgattcacc	atctccagag	acaacgccaa	gaacacgggt	240
tatctacaaa	tgaacaacct	acaaactgag	gacacggccg	tttattactg	tgagccccgg	300
tacgggtacga	aacgggtacgt	cgcccgggag	tatgactcgt	ggggccaagg	gacccagggtc	360
accgtctcct	ca					372

<210> 144
 <211> 345
 <212> DNA
 <213> artificial sequence

<400> 144						
gatgtgcagc	tgcaggcgctc	tgggggaggc	gtcgtgcagg	ctgggggggtc	tctgagactc	60
tcctgtacag	cctctggaag	catccgcagt	atcaatggca	tgggctgggtc	gcgcgtggct	120
ccagggaagc	agcgcgactt	cgtcgcacgt	attgatagta	ggggtagcgc	atactatgca	180
gactccgtag	agggccgatt	caccatctcc	agagacaacg	ccaagaacac	ggtgtatctg	240
caagtggaca	cgctgaaacc	tgaggacacg	gccgtctatt	attgctttgc	gtggcagggt	300
gcggaaacat	attggggcct	ggggacccag	gtcaccgtct	cctca		345

<210> 145
 <211> 354

<212> DNA
<213> artificial sequence

<400> 145
caggtaaagc tggaggagtc tgggggaggc ttggtgcagc ctgggggggtc tctgcgactc 60
tcctgtgcag cctctggaag catcggcgat acctatgcca tggcctggta ccgccaggct 120
ccagggaagc agcgcgactt ggtcgcatat attactaatg gtggtagcac ggactacgca 180
gcctccgtga agggccgatt caccatctcc agagacaacg ccaagaacac ggtctatctg 240
caaatgaaca gcctgaaacc tgaggacacg gccgtctact actgtaatgg agctacccgt 300
ggtgcacagt tagtcttcga ctggggccag gggacccagg tcaccgtctc ctca 354

<210> 146
<211> 372
<212> DNA
<213> artificial sequence

<400> 146
caggtaaagc tggaggagtc tgggggaggga ttggtgcagc acggggggctc tctgagactc 60
tcctgtgcag cctctggagg cacgttcagt aactatgcca tggcctgggtt ccgccaggct 120
ccaggaaagg agcgtgaatt tgtagcagct attagcgtga gtgctaata tagccccatac 180
tatgcaaatt ccgtgaaggg ccgattcacc atctccagag acaacgcca gaacacgggt 240
tatctgcaaa tgaacagcct aaaaactgag gacacggccg tttattactg tgcagcccgg 300
tacggtacga aacgatacgt cgcccgggag tatgactcgt gggggccaggg gacccagggtc 360
accgtctcct ca 372

<210> 147
<211> 344
<212> DNA
<213> artificial sequence

<400> 147
caggtaaagc tggaggagtc tgggggaggc ttggtgcagc ctgggggggtc tctgcgactc 60
tcctgctgcag cctctggaag tagcgtcagt ctcaatgcca tgggctgggtc gcgcgtgcaa 120
ccaggaaagta cgcgcgactt cgtcgcacgg attgctgccg atggtagcac tcactatgca 180
gactccgtga gggccgggtt accatctccg gggacgccgc caggaaacac gtgtatctac 240
aaatggattc gctgaaaccc gaagacacgg ccgtctatta ctgttttgcg tggctgggta 300
cggacacgta ctggggccag gggacccagg tcaccgtctc ctca 344

<210> 148
<211> 342
<212> DNA
<213> artificial sequence

<400> 148
caggtaaagc tggaggagtc tgggggaggc ttggtgcagg ctgggggggtc tctgacactc 60
tcctgtgcag cctctggaag catcggcgat aacaatgcca tgggctgggtc ccgcacgcct 120
ccagggaagc agcgcgagtt cgtcgcacgt atagatagtg gggggatcac acgctatgca 180
gactccctga agggccgatt cactgtctcc agagacaccg gcaagaacac ggtgtctctg 240
caaatgaaca gcctgaaagc tgaggacaca ggcgtctatt actgttttgc acatgtcgggt 300
ggtactatct gggggccaggg gaccagggtc accgtctcct ca 342

<210> 149
 <211> 372
 <212> DNA
 <213> artificial sequence

<400> 149
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 tcctgtttac cctctggagg catcttcact atcaatagca tgggctggta tcggcaggct 120
 ccagggaaac agcgcgagtt ggtcgcaagt atcactggtg gtggtagtgc acgttatgca 180
 gactccgtga agggccgatt catcatgtcc agagacaacg ccaagaacat ggtgtatctg 240
 caaatgaaca gcctgaaacc tgaggacacg gccgtctatt actgtaatac aatccccccg 300
 gcccggaccc aaagcgatca tggggagtggt tatgactact ggggccaggg gaccagggtc 360
 accgtctcct ca 372

<210> 150
 <211> 354
 <212> DNA
 <213> artificial sequence

<400> 150
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 tcctgcgag cctctagcag catcttcagt atcaatatga gctggtaccg ccaggctcca 120
 gggaacgagc gcgagttggt cgcaactatt acacggcatg atagcacaca ctattcagac 180
 tccgtgaagg gccgattcac catctccaga gacgacgaca agaacacgat atatctgcaa 240
 atgaacagcc tgaaacctga ggacacggcc gtctattact gttctgggtt ttttctggac 300
 ggtagtacct ggcacccata ttggggccag gggacccagg tcaccgtctc ctca 354

<210> 151
 <211> 366
 <212> DNA
 <213> artificial sequence

<400> 151
 gaggtacagc tgggtggaatc tgggggaggc ttggtgcagc ctgggggggtc tctgagactc 60
 tcctgtgcag cctctggaag catcgtcagt atcaatgcca tggcctggta ccgccaggct 120
 ccagggaagc agcgcgagtt ggtcgcatat attcgtagta atggcagcac aaactatgca 180
 gactccgtga agggccgatt caccatttcc agagacaacg ccaagaacac ggtctacctg 240
 caaatgaaca gcctgaaaact tgaggacacg gccgtctatt attgtaatgg attcttcact 300
 ttgcctgggt acagtagtga agaatttggt ccctggggcc aggggaccca ggtcaccgtc 360
 tcctca 366

<210> 152
 <211> 429
 <212> DNA
 <213> artificial sequence

<400> 152
 gaggtacagc tgggtggaatc tgggggaggc ttggtgcagc ctggagggtc tctgagactc 60
 tcctgtgcag cctctgagag catcttcagt atcaacgcca tgggctggta ccgccaggct 120

ccagggaagc	agcgcgagta	tgtcgcaggc	attactaagg	gtgggcgtac	aaactatgca	180
gactccgtga	agggccgatt	caccatctcc	agagacgacg	ccaagaatac	ggtgtatctg	240
caaatagaaca	gcctgaaacc	tgaagacacg	gccgtctatt	actgtaatgg	tttgtgctca	300
ggcagagagt	gttatgggga	ctcccttttt	gccgcctggg	gccagggggac	ccaggtcacc	360
gtctcctcag	gatccgaaca	aaaactgatc	agcgaagaag	atctgaacca	tcaccatcac	420
cattagtga						429

<210> 153
 <211> 357
 <212> DNA
 <213> artificial sequence

<400> 153	
gaggtacagc	60
tggtggaatc	
tgggggaggc	
ttggtgcagc	
ctgggggggtc	
tctgagactc	
tcctgtgcag	120
cctctgggaag	
catcgtcagt	
atcaatgccca	
tggcctggta	
ccgccaggct	
ccagggaagc	180
agcgcgagtt	
ggtcgcatat	
attcgtagta	
atggccgcac	
aaactatgca	
gactccgtga	240
agggccgatt	
caccatctcc	
agagacaacg	
ccaagaacac	
ggtgtatctg	
caaatagaaca	300
gcctgaaact	
tgaggacacg	
gccgtctatt	
actgttctgg	
gttttttctg	
gacggtagta	357
cctggcaccc	
atattggggc	
cagggcaccc	
aggtcaccgt	
ctcctca	

<210> 154
 <211> 369
 <212> DNA
 <213> artificial sequence

<400> 154	
gaggtacagc	60
tggtggaatc	
tgggggagga	
ttggcgcagg	
ctggggggctc	
tctgagactc	
tcctgtgcag	120
cctctggatt	
cactttcgat	
gattatgccca	
taggctgggt	
ccgccaggcc	
ccagggaagg	180
agcgtgaggg	
ggctctcatgt	
attagtagta	
gtgatggtag	
cacacactat	
gcagactccg	240
tgaagggccg	
attcaccatc	
tccagagaca	
atgccaggaa	
cacggtgact	
ctgcaaataa	300
acagcctgaa	
acctgaggat	
acggccgttt	
attactgtgc	
gaccccctgg	
gtgacctatt	360
gccccgagaa	
ccttctgttt	
agttactggg	
gccagggggac	
ccaggtcacc	
gtctcctca	369

<210> 155
 <211> 369
 <212> DNA
 <213> artificial sequence

<400> 155	
caggtaaagc	60
tgaggagatc	
tgggggaggc	
ttggtgcagc	
ctgggggggtc	
tctgagactc	
tcctgtgcag	120
cctctggatt	
cactttcgat	
gattatgccca	
taggctgggt	
ccgccaggcc	
ccagggaagg	180
agcgcgaggg	
ggctctcatgt	
attacgagta	
gtgatggtag	
cacatactat	
gcagactctg	240
tgaagggccg	
attcaccatc	
tccagagaca	
atgccaacaa	
cacggtgcat	
ctgcaaataa	300
gcaacctaaa	
acctgaggat	
acggccgttt	
attactgtgc	
gaccccctgg	
gtgacctact	360
gccccgagaa	
ccttctgttt	
agttactggg	
gccagggggac	
ccaggtcacc	
gtctcctca	369

<210> 156
 <211> 360

<212> DNA
<213> artificial sequence

<400> 156
gaggtacagc tgggtggaatc tgggggaggc ttggtgcagg ctgggggggtc tctgacactc 60
tcctgtgcag tctctggaag cagcttcagt atcaaggcca tgggctggta ccgcctggct 120
ccagggaagc agcgcgagtt ggtcgcagca attactagtgt gtggtagcac gaactatgcg 180
gactccgtga agggccgatt caccatctcc agagacagcg ccaagaacac ggtgtatctg 240
caaatgaaca gcctgaaacc tgaggacaca gccgtctatt actgtaatgg ttttttcgag 300
tataggggtc ttgaacaatt gggcccctgg ggccagggga cccaggtcac cgtctcctca 360

<210> 157
<211> 360
<212> DNA
<213> artificial sequence

<400> 157
gatgtgcagc tgcaggcgtc tgggggaggc ttggtgcagc ctgggggggtc tctgagactc 60
tcctgtgcag cctctggaag catcgtcggt atccgtgcca tgacgtggta ccgccaggct 120
ccagggaagc agcgcgagtt ggtcgcagtt cttactagtgt ctggtaaacc tatgtatgcc 180
gactccgtga agggccgatt caccatctcc agagacaacg ccaagaacac ggtatatctg 240
caaatgaaca gcctgaaacc tgaggacacg gccgtctatt actgtaacgc agatttcggg 300
actccgggtt cagtagtact gggtccttgg ggccagggga cccaggtcac cgtctcctca 360

<210> 158
<211> 366
<212> DNA
<213> artificial sequence

<400> 158
caggtaaagc tggaggagtc tgggggaggc ttggtgcagc ctgggggggtc tctgagactc 60
tcctgtgcag cctctggaag catcctcagt atcgaggcca tgggctggta ccgccagact 120
cttgggaagc agcgcgaatt ggtcgcagct attactagtgt gtgatagcac aaactatgca 180
gacttcgtga agggccgatt caccatctcc agagacaagg ccaagaacat ggtgtatctg 240
caaatgaaca gcctgaaacc tgaggacacg gccgtctatt tctgtaatgc cctaattgta 300
gttagggctg gctcgaatcc cgaaatttgt ccctggggcc aggggaccca ggtcaccgtc 360
tcctca 366

<210> 159
<211> 369
<212> DNA
<213> artificial sequence

<400> 159
caggtaaagc tggaggagtc tgggggaggc ttggtgcagg ctgggggggtc tctgagactc 60
tcctgtgcag cctctggatt cactttcgat gattatgccca taggctgggt cccagggcc 120
ccagggaagg agcgtgaggg ggtctcatgt attagtagta gtgatggtag cacatactat 180
gcgactccg tgaagggccg attcaccatc tccagagaca atgccaagaa cacggtgtat 240
ctgcaaataa acagcctgaa acctgaggat acggccgttt attactgtgc gacccccctgg 300
gtgacctact gccccagaaa ctttctgttt agttactggg gccaggggac ccaggtcacc 360

gtctcctca

369

<210> 160

<211> 345

<212> DNA

<213> artificial sequence

<400> 160

gaggtacagc	tgggtggaatc	tgggggagga	ttgggtgcagc	ctgggggggtc	tctgagactg	60
tcctgtgtag	tctctgcaag	gggcgtcagt	ctcgatgccg	tgggctgggtc	gcgcgtggct	120
ccagggaagc	agcgcgactt	cgtcgcacgt	attgatcgaa	ggggtagtac	atactatgca	180
gtgtccgtag	agggccgata	caccatctcc	agagacaacg	ccaagaacac	ggtgtatctg	240
caactggaca	cgctgaaacc	tgaggacacg	gccgtctatt	attgttttgc	atggcagggt	300
gcggaaacac	attggggcct	ggggacccag	gtcaccgtct	cctca		345

<210> 161

<211> 345

<212> DNA

<213> artificial sequence

<400> 161

caggtaaagc	tggaggagtc	tgggggaggc	ttgggtgcagg	ctgggggggtc	tctgaccctc	60
tcctgtgtag	cctctggaag	ccacttcagt	ttcaatgaca	tgggctggta	tcgccaggat	120
ccgtggaagg	ggcgcgactt	ggtcgcggct	attactagta	gtcgtaacac	actttatgta	180
gactccgtga	agggccggtt	caccatctcc	agagacgacg	ccaagaacac	ggtgtatcta	240
caaatgaaca	acctgaaacc	tgaggacaca	gccgtctatt	actgtaacct	gtacccttcc	300
caaataact	actggggcca	ggggacccag	gtcaccgtct	cctca		345

<210> 162

<211> 348

<212> DNA

<213> artificial sequence

<400> 162

caggtaaagc	tggaggagtc	tgggggaggc	ttgggtgcagc	ctgggggggtc	tctgagactc	60
tcctgtgcag	cctctggaag	ccccttcacg	atcaatgccg	tgggctggta	ccgccaggct	120
ccagggaagc	agcgcgagtt	ggtcgcagca	attactcgta	gtggtaagac	gaactatgca	180
gactccgtga	agggccgatt	caccatctcc	ggagacaacg	ccctgaccac	ggtgtatctg	240
caaatgaaca	acctgcaacc	tgaagacacg	gccgtctatt	actgtaatgg	gttctacggg	300
tctgaatttg	ggccctgggg	ccaggggacc	caggtcaccg	tctcctca		348

<210> 163

<211> 372

<212> DNA

<213> artificial sequence

<400> 163

caggtaaagc	tggaggagtc	tgggggagga	ttgggtccagg	ctgggggggtc	tgcgacgctc	60
tcctgttcag	cccctggaga	caccttaagt	agatacgccg	tgggctgggtt	ccgccagggg	120
ccagggcagg	agcgtgattt	tgtagcatcc	attacctgga	gtgggtgatta	cacatactat	180

aaagactccg	tgaagggccg	attcaccatc	tccagagaca	gtgtcaacaa	catggtgtat	240
ctgcgaatga	acagcctgaa	acctgaggac	acggccctgt	attactgtgc	agccgataag	300
agttccttta	gactccgagg	ccctggatta	tatgactaca	ggggccaggg	gacccaggtc	360
accgtctcct	ca					372

<210> 164
 <211> 369
 <212> DNA
 <213> artificial sequence

<400> 164						
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tcctgtgcag	cctctggatt	cactttcgat	tattatgcc	taggctgggt	ccgccaggcc	120
ccagggaagg	agcgcgaggg	ggtctcatgt	attagtagta	gggatgggtac	caccactat	180
gcagactccg	tgaagggccg	attcaccatc	tccagagaca	atgccaagaa	cacggtgtat	240
ctgcaaatag	acagcctgaa	acctgaggat	acggccgttt	attactgtgc	gacccctgg	300
gtgacctact	gccccgagaa	ccttctgttt	agttactggg	gccaggggac	ccaggtcacc	360
gtctcctca						369

<210> 165
 <211> 375
 <212> DNA
 <213> artificial sequence

<400> 165						
caggtaaagc	tggaggagtc	tgggggaggg	ttcgtacagc	ctgggggggtc	actgagactc	60
tcctgtgcag	cctcgggatt	cagtttgc	tattatgcc	taggctgggt	ccgccaggcc	120
ccagggaagg	agcgcgagtg	ggtctctgcc	attagtaata	ttgatgatga	cacatactat	180
gaagactccg	tgaagggccg	attcaccatc	tccagagaca	acgccaagaa	cacggcgtat	240
ctgcaaatga	acaacctgaa	acctgaggac	acggccgttt	attactgtgc	agcagataag	300
gatgtagtgg	tagtgcgtac	gggtctcagc	gagtctgact	attggggcca	ggggacccag	360
gtcaccgtct	cctca					375

<210> 166
 <211> 360
 <212> DNA
 <213> artificial sequence

<400> 166						
caggtaaagc	tggaggagtc	tgggggaggg	ttggtgcagg	ctgggggggtc	tctgagactc	60
tcctgtgcag	cctctggaag	catcttcggt	atcaatgcc	tggcctggta	ccgccaggct	120
ccagggaagc	agcgcgaact	ggtcgcagtt	attaccagtg	gtggacgcac	aatgtatgca	180
gagtccgtga	agggccgatt	cgccatctcc	agagacgtcg	ccaagaacac	ggtgtatctg	240
caaatgaaca	gcctgaaacc	tgaagacaca	gccgtctatt	actgtaatgg	agactggggg	300
tcggagggtg	gggtggacct	tggaccctgg	ggccagggga	cccaggtcac	cgctcctca	360

<210> 167
 <211> 387
 <212> DNA
 <213> artificial sequence

<400> 167
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tcctgtgccg cctcgggaag cattcgagc atcggcgaca tggagtggta ccgccaggct 120
ccaggacagc agcgcgagtt ggtcgcaagt attagtgtg gccctgagat gcgtagtgct 180
ggtaccccaa cttatgcaaa gtccgtggag ggccgattca ccatctccag agacaacatc 240
aagaacatga tgtggctgca aatgaacagc ctgagacctg aagacacggc cgtctattcc 300
tgtaatgccg acgttctgac gtactataat ggtagatact cccgagatgt ctactggggc 360
caggggaccc aggtcaccgt ctccctca 387

<210> 168
<211> 354
<212> DNA
<213> artificial sequence

<400> 168
caggtaaagc tggaggagtc tgggggaggc ttggtgcagg ctgggggggtc tctgagactc 60
tcctgtgcag cctctagcag catcttcagt atcaatatga gctggtagcg ccaggctcca 120
gggaacgagc gcgagtgggt cgcaactatt acacgacatg atagtagaca ctattcagac 180
tccgtgaagg gccgattcgc catctccaga gacgacgaca agaacacgat atatctgcaa 240
atgaacagcc tgaacacctga ggacacggcc gtctattact gttctggatt ttttctggac 300
ggtagtacct ggcgccata ttggggccag gggacccagg tcaccgtctc ctca 354

<210> 169
<211> 372
<212> DNA
<213> artificial sequence

<400> 169
gatgtgcagc tgcaggcgctc tgggggaggc ttggtgcagc ctgggggggtc tctgagactc 60
tcctgtgcag cctctggagc caccctcagt ggctatgccg tggcctgggt ccgccaggct 120
ccaggaaaagg agcgtgagtt tgtagcagcc attagctcga gtgataatag tagcccatat 180
tatgcaaatg tcgtgaaggg tcgattcacc atctccagag acaacgcca gaacacgggt 240
tatctgcaaa tgaacagcct gcaaaactgag gacacggccc tttattactg tgcagcccgg 300
tacggtacga aacggtacgt cgcccgggag tatgactcgt ggggtcaggg gacccaggct 360
accgtctcct ca 372

<210> 170
<211> 366
<212> DNA
<213> artificial sequence

<400> 170
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tcctgtgcag cctctagaag catcttcagt atcaatgcc a tggcctggta ccgccaggct 120
ccagggaagc agcgcgagtt ggtcgcatat attcgtagta gtggtaccac aatgtatgctg 180
gattccgtga agggccgatt caccatctcc agagacaacg ccaagaacac ggtgtatctg 240
caaatgaaca gcctgaaacc tgaggacacg gccgtctatt attgtaacgg agattactcc 300
ccgcccggca gcacgtaccc tgacttaggt ccctggggcc aggggaccca gggtcaccgtc 360
tcctca 366

<210> 171
<211> 795
<212> DNA
<213> artificial sequence

<400> 171
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tcctgtgcag cctctggatt cactttcgat gattatgcc a taggctgggtt ccgccaggcc 120
ccagggaagg agcgcgaggg ggtctcatgt attacgagta gtgatggtag cacatactat 180
gcagactctg tgaaggggccg attcaccatc tctagagaca atgccaaaca cacgggtgcat 240
ctgcaaataa gcaacctaaa acctgaggat acggccgttt attactgtgc gaccccctgg 300
gtgaactact gccccgagaa ctttctgttt agttactggg gccagggggac ccagggtcacc 360
gtctcctcac agggcccagg acagctgggtg gaatctgggg gaggtattggc gcaggctggg 420
ggctctctga gactctcctg tacagcctct ggacgcacct tcagtaccta tttcatggcc 480
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gggtttccac actatacaga ctccgtgaag ggccgattca ccatctccag agacaacgcc 600
aagaacacgg tgtattttgca aatgaacagc ctgaaatctg aggacacggc cgtttatttt 660
tgtgcatcac ggggtattgc ggatggatct gactttgggt cctacggcca ggggacccag 720
gtcaccgtct cctcaggatc cgaacaaaaa ctgatcagcg aagaagatct gaaccatcac 780
catcaccatt agtga 795

<210> 172
<211> 348
<212> DNA
<213> artificial sequence

<400> 172
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tcctgtggag catctggaat tatttttagt gccactacca tggcctggta ccgccaggct 120
ccagggaagc agcgcgagtt ggtcgcactg attactagt attggcacac aaagtatgca 180
gactccgtga aggaccgatt ctccatttcc agagacaacg ccaagagcac ggtgcacctg 240
caaatgaaca gcctgagatc tgaagacaca gcagtctatt tttgttatgc ccgccaagcc 300
ttcagtgagc ctcgttgggg ccagggggacc caggtcaccg tctcctca 348

<210> 173
<211> 345
<212> DNA
<213> artificial sequence

<400> 173
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tcctgtgcag cctctggaag cagcggcaga atcgatgcc a tgggctgggtc gcgcgtggct 120
ccagggaagc agcgcgactt cgtcgcacgt cttggcagta atggattcac acagtatgac 180
atctccgtgg agggccgatt caccatctcc ggggacgtcg ccaagaatac gatatatctg 240
caaatggaca cgctgaaacc tgaggacacg gccgtctatt actgttttgc gtggctgggg 300
caagataccg tgtggggcca ggggacccag gtcaccgtct cctca 345

<210> 174
<211> 372

<212> DNA
<213> artificial sequence

<400> 174
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tcctgtgcag cctctggaga cgccttattt aactacgcca tgggctgggtt tcgccagggg 120
ccagggaagg agcgtgactt tgtagcatct gttaccagga gtggtgataa tacatactat 180
aaagactccg cgaagggccg attcaccatc tccagagacg acgccaagaa cacggtatat 240
ctgcaaatga acagcctgaa acctgaggac acggccgttt atttctgtgc agcagataag 300
agttccttta ggctccgagg ccctggagta tatgactaca ggggccaggg gaccaggtc 360
accgtctcct ca 372

<210> 175
<211> 378
<212> DNA
<213> artificial sequence

<400> 175
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tcctgtgcag tctctggaag cgacggccga gtcatgctca tgggctggta ccgccaggct 120
ccagggcagc agcgcgacct ggtcgcatct attactagt cagattacac aacctatgca 180
gaatccgtcg agggccgatt caccatctcc acagacaaca acaagaacac agtgtatcta 240
caaatgaaca gcctgaagcc tgaagacaca gccgtctatt tttgtaaagt aattgcggcg 300
acggctctggg gccaggagac ccaggtcagg cagggtttga cattctgggg ccaggggacc 360
caggtcaccg tctcctca 378

<210> 176
<211> 360
<212> DNA
<213> artificial sequence

<400> 176
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tcctgtgtag cctctggaag catctccagt gccagatcca tgacctggta ccgccaggct 120
ctagggaagc agcgcgagtt ggtcgcagtg attatgggtg gcggtagcac gatgtatgca 180
gactccgtga agggccgatt caccatctcc agagacaacg ccaagaacac ggtgtatcta 240
caaatgaaca gcctgaaacc tgaggacacg gccgtctatt attgtaatgc agactggggg 300
ggagtcgggt ttccgaactt aggtccctgg ggccagggga cccaggtcac cgtctcctca 360

<210> 177
<211> 372
<212> DNA
<213> artificial sequence

<400> 177
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tcctgtatag cctctggagg caccttcaga acttatgcta tcggttgggtt ccgccaggct 120
ccaggggctg agcgtgaatt tgtagctgcc attagccggc gcggtaataa gacagattat 180
gcagagtccg tgaagggccg attcacagtc tccagagaca acgccgagaa tacggtgtat 240
ttgcaaatga acagcctgaa acctgatgac atgggcgttt attactgtgc agcgtcggcg 300

cgtaatttca	tcggcaccca	gccacttgat	tatgactact	ggggccaggg	gacccaggtc	360
accgtctcct	ca					372

<210> 178
 <211> 366
 <212> DNA
 <213> artificial sequence

<400> 178						
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gactccgtga	agggccgatt	caccatctcc	agagacaaca	ccaagaacat	ggtgtatctg	240
caaatgagca	gcctgaaact	tgaggacacg	cgcctttatt	actgtgcagc	atcaagccta	300
ttccctagta	gtgctccccg	tcagtatgac	tactggggcc	aggggaccca	ggtcaccgtc	360
tcctca						366

<210> 179
 <211> 369
 <212> DNA
 <213> artificial sequence

<400> 179						
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gcagactccg	tgaagggccg	attcaccatc	tccagagaca	acgccaagaa	cacggtgtat	240
ctgcaaatga	acacgctgaa	acctgaggac	acggccgttt	attactgtgc	gtcatcctcc	300
gacccgcggg	tttatatagc	aagtactctc	gattactggg	gccaggggac	ccaggtcacc	360
gtctcctca						369

<210> 180
 <211> 357
 <212> DNA
 <213> artificial sequence

<400> 180						
caggtaacgc	tgggtggaatc	tgggggagga	ttggtgcagg	ctgggggctc	tctgagactc	60
tcctgtgcag	cctctggacg	caccttcagt	atgtttatca	tgggctgggt	ccgccaggct	120
ccagggaagg	agcgtgaatt	agtagcagct	attagccgga	atagtaaatct	cacatactat	180
tttcagtccg	tgaaaggccg	attcaccatc	tccagagaca	acgccaagaa	cacggtgtat	240
ttgcaaatga	acagcctgaa	acttgaggac	acggccgtct	attactgtaa	tgcagactac	300
gggcctccag	tatccattgg	tccttggggc	caggggaccc	aggtcaccgt	ctcctca	357

<210> 181
 <211> 366
 <212> DNA
 <213> artificial sequence

<400> 181

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tcctgtgtag	tctctggaag	gatcctcagt	atcaaggcca	tgggctggta	ccgccaggct	120
cctgggaagc	agcgcgagta	cgtcgcaggt	attgttagca	gtggtaatac	aaactatgca	180
gacttcgtga	agggccgatt	caccatctcc	ggagacaacg	ccaagaacac	ggtgtttctg	240
caaatgaaca	gcctgaaacc	tgaagacacg	gccgtctatt	actgtaatgc	cctagtggtc	300
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tcctca						366

<210> 182
 <211> 366
 <212> DNA
 <213> artificial sequence

<400> 182						
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tcctgtacag	cctctggacg	caccttcagt	acctatttca	tggcctgggt	ccgccagcct	120
ccagggaagc	agcgcgagtt	ggtcgcatac	attcgtagtg	gtggtagcac	aaactatgca	180
gactccgtga	agggccgatt	caccatctcc	agagacatcg	ccaagaacac	ggtgtatctg	240
caaatgaaca	gcctgaaacc	tgaggacacg	gccgtctatt	actgcaatgc	agattactcc	300
ccgcccggca	gccgggtccc	tgacttaggt	ccctggggcc	aggggaccca	ggtcaccgtc	360
tcctca						366

<210> 183
 <211> 363
 <212> DNA
 <213> artificial sequence

<400> 183						
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tcctgcgcag	cctctggatt	caccttggat	aattatgcc	tagcgtgggt	ccgccaggcc	120
ccagggaagg	agcgcgagtg	ggctctcatca	actggtagtg	atggtaactt	atatacaccg	180
tccgtgaggg	gccgattcac	catttccaga	gacaacgcc	agaacacgg	gtatctgcaa	240
atgaacagcc	tgaaacctga	ggacacggcc	gtttattatt	gtgtagcagg	gaagagaccg	300
gtaattacta	catggattgc	tttggacgca	tggggccagg	ggacccagg	caccgtctcc	360
tca						363

<210> 184
 <211> 345
 <212> DNA
 <213> artificial sequence

<400> 184						
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tcctgtgcag	cctctggaac	attctccagt	atcgattcca	tgcgctgggt	ccggcgggct	120
ccaggaaagg	agcgcggaatt	tgtcgcacat	attactagca	cgggtaggac	aaactatgca	180
gacgccgtga	agggccgatt	taccatctct	agagacaacg	ccaagaacac	gatgtggctg	240
caaatggaca	acctgaaacc	tgacgacacg	gccgtctatt	attgcaatat	ggtgacgact	300
ccttatatgc	actggggcca	ggggacccag	gtcaccgtct	cctca		345

<210> 185

<211> 345
<212> DNA
<213> artificial sequence

<400> 185
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tcctgtgtag cctctggaag ccgcttcagt gaaaatgcca tgggctggta tcaccaggct 120
ccagacaaac agcgcacctt ggtcgcagct attactagta gtcgtagcac tctttatata 180
gactccgtga agggccgctt caccatctcc agagacaacg ccaagaacac ggtatatctg 240
caaatgagca acctgaaacc tgaggacacc ggcgtctatt actgtaaccc gtacccttcc 300
ccaaattcct actggggcca ggggacccag gtcaccgtct cctca 345

<210> 186
<211> 348
<212> DNA
<213> artificial sequence

<400> 186
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tcctgtgcag cctctggact cgtcttcagt gccaataaga tgggctggta ccgccaggct 120
ccagggaagc agcgcgagtt ggtcgcacgt attagcactg acggacgtac aaactatgcg 180
gactccgtga agggccgatt caccatctcc agagacaacg ccgagaagac ggtgtttctg 240
caaatgaaca gcctgaatcc tgacgacacg gccgtctatt actgtaatgc aaactggctc 300
gataaatatg actactgggg ccaggggacc caggtcaccg tctcctca 348

<210> 187
<211> 360
<212> DNA
<213> artificial sequence

<400> 187
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tcctgtgtgg cctctggaag catctccagt gccagatcca tgacctggta ccgccaggct 120
cacgggaagc agcgcgagtt ggtcgcagtt attactagt gcggtagcac aatgtatgca 180
gactccgtga agggccgatt caccatctcc agagacagcg ccaagaacac ggtgtatcta 240
caaatgaaca gcctgaaacc tgaggacacg gccgtctatt attgtaatgc agactggggg 300
gaagtcgggt ttgtgaactt aggtccctgg ggccaggggga cccaggtcac cgtctcctca 360

<210> 188
<211> 366
<212> DNA
<213> artificial sequence

<400> 188
gaggtaacgc ttggtggaatc tgggggaggc ttggtgcagc ctgggggggtc tctgagactc 60
tcctgtgcag cctctggaag catcttcggt ttcaatggcg tggcctgggt ccgccaggct 120
ccagggaagc agcgcgagtt ggtcgcagtt attcgtagt gtggtaaacac gctctatgca 180
gactccgtga agggccgatt caccatctcc agagacaacg ccaagaacac ggtgtatctg 240
caaatgaaca gcctgaaacc tgaggacacg gccgtctatt actgtaatgt agattactcc 300
ccgcccggtg gtctggttcc tgacttaggt ccctggggcc aggggaccca ggtcaccgtc 360

tcctca 366

<210> 189
<211> 369
<212> DNA
<213> artificial sequence

<400> 189
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tcctgtgcag cctctggaag catcgccagt atcaatgcca tgggctggta ccgccaggct 120
ccagggaagc agcgcgagtt ggtcgcagct attactagag gtggtagcac aaactatgca 180
gactccgtga agggccgatt caccatctcc agagacaacg ccaagaacac ggtatatctg 240
caaatgaaca gcctgaaacc ggaggacacg gccgtctatt catgtaatgg tttgtgctca 300
gacgatcggg gttatgggga ctcccctttt gcccctggg gcccggggac ccaggtcacc 360
gtctcctca 369

<210> 190
<211> 354
<212> DNA
<213> artificial sequence

<400> 190
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tcctgtctag tctctggaag gggcgtcagt ctcgatgccg tgggctggtc gcgcgtggct 120
ccagggaagc agcgcgactt cgtcgcacgt attgatagta ggggtagcgc atactatgca 180
gactccgtag agggccgatt caccatctcc agagacaacg ccaagaacac ggtgtatctg 240
caagtggaca cgctgaaacc tgaggacacg gccgtctatt attgttttgc gtactacggg 300
gctcaaatat ctttttggtcc gtggggccag gggacccagg tcaccgtctc ttca 354

<210> 191
<211> 405
<212> DNA
<213> artificial sequence

<400> 191
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tcctgtgtag tctctggaag gggcgtcaat ctcgatgcca tgggctggtc gcgcgtggct 120
ccagggaagc agcgcgactt cgtcgcacat attgatgata ggggtaccgc atactatgca 180
gacttcgtaa agggccgatt caccatctcc agagacaacg ccaagaacac ggtgtatctg 240
caagtggaca cgctgaaacc tgaggacacg gccgtctatt attgctttgc gtggcagggt 300
gcggaaacat attggggcct ggggacccgg gtcaccgtct cctcaggatc cgaacaaaaa 360
ctgatcaacg aagaacatct gaaccatcac catcaccatt attga 405

<210> 192
<211> 360
<212> DNA
<213> artificial sequence

<400> 192
gaggtacagc tgggtggaatc tgggggaggc ttggtgcagg ctgggggggtc tctgagactc 60

tcctgtgtag	cctctggaag	catcttcagt	gtcaatgccg	tggcctggta	ccgccaggct	120
ccagggaac	agcgcgagtt	ggtcgcata	atacgtcgta	gtggtagcac	aaactatgca	180
gactccgtga	agggccgatt	caccatctcc	agagacaatg	ccaagaacac	gctgtatctg	240
caaatgaaca	gcctgaaacc	tgacgacaca	gccgtgtatt	attgtaatgc	ggggcggaca	300
ggggatcggt	ttaatttggg	ggcgtattgg	ggccagggga	cccagggtcac	cgtctcctca	360

<210> 193
 <211> 369
 <212> DNA
 <213> artificial sequence

<400> 193						
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tcctgtacag	cctctggacg	caccttcagt	acctatttca	tggcctgggt	ccgccagcct	120
ccagggaag	agcgtgaata	cgtaggcggt	attagggtgga	gtgatgggtg	tccacactat	180
gcagactccg	tgaagggccg	attcaccatc	tccagagaca	acgccaagaa	cacgggtgtat	240
ttgcaaatga	acagcctgaa	acctgaggac	acggccgtct	attactgcaa	tgagattac	300
tccccgcccg	gcagccgggt	ccctgactta	ggtccctggg	gccaggggac	ccaggtcacc	360
gtctcctca						369

<210> 194
 <211> 356
 <212> DNA
 <213> artificial sequence

<400> 194						
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tcctgtgtag	cctctggaag	catcttcagt	atcaaagcca	tggcctggta	ccgccaggct	120
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gactccgtga	agggccgatt	caccatctcc	agagacatcg	ccaagaacac	ggtgtatctg	240
caaatgaaca	gcctgaaatc	tgaggacacg	gccgtttatt	tttgtgcatc	acgggggtatt	300
gcggatggat	ctgctttggg	tcctacggcc	aggggaccca	ggtcaccgtc	tcctca	356

<210> 195
 <211> 366
 <212> DNA
 <213> artificial sequence

<400> 195						
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ccagggaagc	agcgcgagtt	ggtcgcatac	attcgtagt	gtggtagcac	aaactatgca	180
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caaatgaaca	gcctgaaacc	tgaggacacg	gccgtctatt	actgcaatgc	agattactcc	300
ccgccggca	gccggttccc	tgacttaggt	ccctggggcc	aggggaccca	ggtcaccgtc	360
tcctca						366

<210> 196
 <211> 372
 <212> DNA

<213> artificial sequence

<400> 196

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ccaggggctg	agcgtgaatt	tgtagctgcc	attagccggc	gcggtaataa	gacagattat	180
gcagagtccg	tgaagggccg	attcacagtc	tccagagaca	acgccgagaa	tacggtgtat	240
ttgcaaatga	acagcctgaa	acctgatgac	atgggcggtt	attactgtgc	agcgtcggcg	300
cgtaatttca	tcggcaccca	gccacttgat	tatgactact	ggggccaggg	gacccaggctc	360
accgtctcct	ca					372

<210> 197

<211> 360

<212> DNA

<213> artificial sequence

<400> 197

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ccaggggaaag	agcgtgaata	cgtaggcggt	attaggtgga	gtgatgggtg	tccacactat	180
gcagactccg	tgaagggccg	attcaccatc	tccagagaca	acgccaagaa	cacggtgtat	240
ttgcaaatga	acagcctgaa	atctgaggac	acggccggtt	atttttgtgc	atcacgggggt	300
attgcgggatg	gatctgactt	tggttcctac	ggccagggga	cccaggtcac	cgtctcctca	360

<210> 198

<211> 366

<212> DNA

<213> artificial sequence

<400> 198

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ccaggggaagc	agcgcgaatt	ggtcgcagct	attactaaaa	gtaataacat	aaactatgca	180
gactccgtga	agggccgatt	cacatctcc	agagacaacg	ccaagaacac	ggtgtatctg	240
caaatgaaca	gcctgaaacc	tgaggacacg	gccgtctatt	attgtaatgg	attcttcact	300
ttgcctgggt	acagtagtga	agaatttggt	ccctggggcc	tggggaccca	ggtcaccgtc	360
tcctca						366

<210> 199

<211> 21

<212> DNA

<213> artificial sequence

<400> 199

cgccatcaag	gtaccagttg	a				21
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<210> 200

<211> 29

<212> DNA

<213> artificial sequence

<400> 200	
ggggtacctg tcatccacgg accagctga	29
<210> 201	
<211> 43	
<212> DNA	
<213> artificial sequence	
<400> 201	
cagccggcca tggccsmkgt rcagctgggtg gaktctgggg gag	43
<210> 202	
<211> 41	
<212> DNA	
<213> artificial sequence	
<400> 202	
catgtgcatg gcctagactc gcggcccagc cggccatggc c	41
<210> 203	
<211> 47	
<212> DNA	
<213> artificial sequence	
<400> 203	
catgtgtaga ttcttggccg gcctggcctg aggagacggt gacctgg	47
<210> 204	
<211> 41	
<212> DNA	
<213> artificial sequence	
<400> 204	
gaagaagaag acaacaggcc svkgtgmacg tggwggaktc t	41
<210> 205	
<211> 37	
<212> DNA	
<213> artificial sequence	
<400> 205	
gaagatctcc ggatcctgag gagacggtga cctgggt	37