

SEQUENCE LISTING

<110> STAIDSON (BEIJING) BIOPHARMACEUTICALS CO.,LTD.

<120> ANTIBODIES SPECIFICALLY RECOGNIZING PSEUDOMONAS
PCRV AND USES THEREOF

<130> 71026-20003.40

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Asp Tyr Pro Met Ser

1 5

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<400> 2

Ser Tyr Pro Met Ser

1 5

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<400> 3

Asp Asn His Met Ser

1 5

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Asp Tyr Ser Met Ser
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Ser Tyr His Met Ser
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Asp Asn Pro Met Ser
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<400> 9
Gly Ile Ser Glu Ser Gly Gly Ser Thr Asn Asp Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 10
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<220>
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<400> 10
Gly Ile Ser Glu Ser Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

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<400> 11
Gly Ile Ser Glu Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

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<400> 12
Gly Ile Ser Glu Ser Gly Gly Ser Thr Tyr Asp Ala Asp Ser Val Lys
1 5 10 15
Gly

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<400> 13
Val Ile Ser Glu Ser Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

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<400> 14
Val Ile Ser Glu Ser Gly Gly Ser Thr Asn Asp Ala Asp Ser Val Lys
1 5 10 15
Gly

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<400> 15

Gly	Arg	Phe	Cys	Thr	Asn	Ser	Ser	Cys	Phe	Phe	Arg	Ala	Val	Tyr	Gly
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Met	Asp	Val													

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<400> 16

Gly	Arg	Phe	Ser	Gly	Glu	Ser	His	His	Phe	Phe	Arg	Ala	Val	Tyr	Gly
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Met	Asp	Val													

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<400> 17

Gly	Arg	Phe	Ser	Asp	Tyr	Ser	Gln	His	Phe	Phe	Arg	Ala	Val	Tyr	Gly
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Met	Asp	Val													

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Gly	Arg	Phe	Ser	Thr	Asn	Ser	Ala	His	Phe	Phe	Arg	Ala	Val	Tyr	Gly
1				5					10					15	
Met	Asp	Val													

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<400> 19
Gly Arg Phe Ser Thr Ser Ser Ser His Phe Tyr Arg Ala Val Tyr Gly
1 5 10 15
Met Asp Val

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<400> 20
Gly Arg Phe Ser Tyr Asp Thr Arg His Phe Phe Arg Ala Val Tyr Gly
1 5 10 15
Met Asp Val

<210> 21
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<400> 21
Gly Arg Phe Ser Asp Ser Thr Lys His Phe Phe Arg Ala Val Tyr Gly
1 5 10 15
Met Asp Val

<210> 22
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<223> Synthetic Construct

<400> 22
 Gly Arg Phe Ser Gln Ser Ser Ser His Phe Phe Arg Ala Val Tyr Gly
 1 5 10 15
 Met Asp Val

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<400> 23
 Gly Arg Phe Ser Asp Glu Tyr Gly His Phe Phe Arg Ala Val Tyr Gly
 1 5 10 15
 Met Asp Val

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<400> 24
 Gly Arg Phe Ser Ala Ser Ala Gly His Phe Phe Arg Ala Val Tyr Gly
 1 5 10 15
 Met Asp Val

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<400> 25
 Gly Arg Phe Ser Asp Ala Ser Glu His Phe Phe Arg Ala Val Tyr Gly
 1 5 10 15
 Met Asp Val

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<400> 26
Gly Arg Phe Ser Gln Asp Ser Tyr His Phe Phe Arg Ala Val Tyr Gly
1 5 10 15
Met Asp Val

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<400> 27
Gly Arg Phe Ser Thr Ser Ser Ser His Phe Phe Arg Ala Val Tyr Gly
1 5 10 15
Met Asp Val

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<400> 28
Gly Arg Phe Ser Thr Asp Ser Ser His Phe Tyr Arg Ala Val Tyr Gly
1 5 10 15
Met Asp Val

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<400> 29
Gly Arg Phe Ser Thr Leu Ser Ser His Phe Phe Arg Ala Val Tyr Gly
1 5 10 15

Met Asp Val

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<220>
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<400> 30
Gly Arg Phe Ser Thr Asp Ser Ser His Phe Phe Arg Ala Val Tyr Gly
1 5 10 15
Met Asp Val

<210> 31
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<213> Artificial Sequence

<220>
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<400> 31
Gly Arg Phe Ser Thr Asn Ser Asp His Phe Tyr Arg Ala Val Tyr Gly
1 5 10 15
Met Asp Val

<210> 32
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<400> 32
Arg Ala Ser Gln Gly Ile Ser Ser Tyr Leu Ala
1 5 10

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<220>
<223> Synthetic Construct

<400> 33
Arg Ala Ser Gln Gly Ile Arg Ser Tyr Leu Ala
1 5 10

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<400> 34
Ala Ala Ser Thr Leu Gln Ser
1 5

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<400> 35
Gln Gln Leu Ser Ser Tyr Pro Leu Ser
1 5

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Gln Gln Leu Asn Ser Tyr Pro Leu Thr
1 5

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<400> 37

Gln Gln Leu Ser Ser Tyr Pro Leu Thr
1 5

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<400> 38
Gln Gln Leu Lys Ser Tyr Pro Leu Thr
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<223> Xaa = Asp or Ser

<220>
<221> VARIANT
<222> 2
<223> Xaa = Tyr or Asn

<220>
<221> VARIANT
<222> 3
<223> Xaa = Pro, His, Tyr or Ser

<400> 39
Xaa Xaa Xaa Met Ser
1 5

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<223> Xaa = Gly or Val

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<223> Xaa = Asn or Tyr

<220>
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<223> Xaa = Asp or Tyr

<400> 40
Xaa Ile Ser Glu Ser Gly Gly Ser Thr Xaa Xaa Ala Asp Ser Val Lys
1 5 10 15
Gly

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<223> Xaa = Ser or Cys

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<221> VARIANT
<222> 5
<223> Xaa = Thr, Gly, Asp, Tyr, Gln or Ala

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<221> VARIANT
<222> 6
<223> Xaa = Ser, Asp, Asn, Glu, Leu, Ala or Tyr

<220>
<221> VARIANT
<222> 7
<223> Xaa = Ser, Thr, Tyr or Ala

<220>
<221> VARIANT
<222> 8
<223> Xaa = Ser, His, Gln, Ala, Arg, Lys, Gly, Glu, Tyr or Asp

<220>
<221> VARIANT
<222> 9
<223> Xaa = His or Cys

<220>
<221> VARIANT
<222> 11
<223> Xaa = Phe or Tyr

<400> 41
Gly Arg Phe Xaa Xaa Xaa Xaa Xaa Phe Xaa Arg Ala Val Tyr Gly
1 5 10 15
Met Asp Val

<210> 42
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<221> VARIANT
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<223> Xaa = Ser or Arg

<400> 42
Arg Ala Ser Gln Gly Ile Xaa Ser Tyr Leu Ala
1 5 10

<210> 43
<211> 9
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<222> 4
<223> Xaa = Ser, Asn or Lys

<220>
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<222> 9
<223> Xaa = Ser or Thr

<400> 43

Gln Gln Leu Xaa Ser Tyr Pro Leu Xaa
1 5

<210> 44
<211> 5
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<220>
<221> VARIANT
<222> 2
<223> Xaa = Asn or Tyr

<220>
<221> VARIANT
<222> 3
<223> Xaa = Phe, His or Tyr

<400> 44
Asp Xaa Xaa Met Ser
1 5

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<223> Xaa = Gly or Val

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Xaa Ile Ser Glu Ser Gly Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

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 <223> Xaa = Asn, Ser, Asp or Leu

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 <223> Xaa = Ser or Ala

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 <221> VARIANT
 <222> 11
 <223> Xaa = Phe or Tyr

<400> 46
 Gly Arg Phe Ser Thr Xaa Ser Xaa His Phe Xaa Arg Ala Val Tyr Gly
 1 5 10 15
 Met Asp Val

<210> 47
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<220>
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 <223> Xaa = Ser or Thr

<400> 47
 Gln Gln Leu Ser Ser Tyr Pro Leu Xaa
 1 5

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

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

<210> 49

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<213> Artificial Sequence

<220>

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<400> 49

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Thr	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr
			20					25					30		
Pro	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Asp	Trp	Val
		35					40					45			
Ser	Gly	Ile	Ser	Glu	Ser	Gly	Gly	Ser	Thr	Asn	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Ser	Thr	Ser	Arg	Asp	Asn	Ser	Lys	Ser	Thr	Leu	Tyr
65					70					75					80
Leu	Asp	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys
			85						90					95	
Ala	Lys	Gly	Arg	Phe	Ser	Gly	Glu	Ser	His	His	Phe	Phe	Arg	Ala	Val
		100					105						110		
Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Ala	Val	Thr	Val	Ser	Ser
		115					120					125			

<210> 50

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<213> Artificial Sequence

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<400> 50

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

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

<210> 51
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<220>
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Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Thr	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Asn
		20						25					30		
His	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Asp	Trp	Val
		35					40					45			
Ser	Gly	Ile	Ser	Glu	Ser	Gly	Gly	Ser	Thr	Asn	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Ser	Thr	Ser	Arg	Asp	Asn	Ser	Lys	Ser	Thr	Leu	Tyr
65					70					75					80
Leu	Asp	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys
			85						90					95	
Ala	Lys	Gly	Arg	Phe	Ser	Thr	Asn	Ser	Ala	His	Phe	Phe	Arg	Ala	Val
		100					105						110		
Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Ala	Val	Thr	Val	Ser	Ser
	115						120					125			

<210> 52
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 <213> Artificial Sequence

<220>
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Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Thr	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Asn
		20						25					30		

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

<210> 53

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<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 53

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Thr	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Asn
		20						25					30		
His	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Asp	Trp	Val
	35						40					45			
Ser	Gly	Ile	Ser	Glu	Ser	Gly	Gly	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Ser	Thr	Ser	Arg	Asp	Asn	Ser	Lys	Ser	Thr	Leu	Tyr
65					70					75					80
Leu	Asp	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys
			85						90					95	
Ala	Lys	Gly	Arg	Phe	Ser	Tyr	Asp	Thr	Arg	His	Phe	Phe	Arg	Ala	Val
		100					105						110		
Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Ala	Val	Thr	Val	Ser	Ser
	115						120					125			

<210> 54

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<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 54

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

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

<210> 55
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Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Thr	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr
			20					25					30		
His	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Asp	Trp	Val
			35				40					45			
Ser	Gly	Ile	Ser	Glu	Ser	Gly	Gly	Ser	Thr	Asn	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Ser	Thr	Ser	Arg	Asp	Asn	Ser	Lys	Ser	Thr	Leu	Tyr
65					70					75					80
Leu	Asp	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys
			85						90					95	
Ala	Lys	Gly	Arg	Phe	Ser	Gln	Ser	Ser	Ser	His	Phe	Phe	Arg	Ala	Val
			100					105					110		
Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Ala	Val	Thr	Val	Ser	Ser
		115					120					125			

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Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Thr	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Asn
			20					25					30		

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

<210> 57

<211> 128

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 57

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Thr	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Tyr
			20					25					30		
Pro	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Asp	Trp	Val
			35				40					45			
Ser	Gly	Ile	Ser	Glu	Ser	Gly	Gly	Ser	Thr	Tyr	Asp	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Ser	Thr	Ser	Arg	Asp	Asn	Ser	Lys	Ser	Thr	Leu	Tyr
65					70					75					80
Leu	Asp	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys
			85						90					95	
Ala	Lys	Gly	Arg	Phe	Ser	Ala	Ser	Ala	Gly	His	Phe	Phe	Arg	Ala	Val
		100					105						110		
Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Ala	Val	Thr	Val	Ser	Ser
	115						120					125			

<210> 58

<211> 128

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 58

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

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

<210> 59

<211> 128

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 59

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Thr	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Tyr
			20					25					30		
Pro	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Asp	Trp	Val
			35				40					45			
Ser	Gly	Ile	Ser	Glu	Ser	Gly	Gly	Ser	Thr	Asn	Asp	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Ser	Thr	Ser	Arg	Asp	Asn	Ser	Lys	Ser	Thr	Leu	Tyr
65					70					75					80
Leu	Asp	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys
			85						90					95	
Ala	Lys	Gly	Arg	Phe	Ser	Gln	Asp	Ser	Tyr	His	Phe	Phe	Arg	Ala	Val
			100				105						110		
Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Ala	Val	Thr	Val	Ser	Ser
		115					120						125		

<210> 60

<211> 128

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 60

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

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

<210> 61

<211> 128

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 61

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Thr	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Tyr
			20					25					30		
Pro	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Asp	Trp	Val
			35				40					45			
Ser	Gly	Ile	Ser	Glu	Ser	Gly	Gly	Ser	Thr	Asn	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Ser	Thr	Ser	Arg	Asp	Asn	Ser	Lys	Ser	Thr	Leu	Tyr
65					70					75					80
Leu	Asp	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys
			85						90					95	
Ala	Lys	Gly	Arg	Phe	Ser	Thr	Asp	Ser	Ser	His	Phe	Tyr	Arg	Ala	Val
			100				105						110		
Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Ala	Val	Thr	Val	Ser	Ser
		115					120						125		

<210> 62

<211> 128

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 62

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

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

<210> 63

<211> 128

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 63

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Thr	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asp	Tyr
		20						25					30		
Pro	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Asp	Trp	Val
	35						40					45			
Ser	Gly	Ile	Ser	Glu	Ser	Gly	Gly	Ser	Thr	Asn	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Ser	Thr	Ser	Arg	Asp	Asn	Ser	Lys	Ser	Thr	Leu	Tyr
65					70					75					80
Leu	Asp	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys
			85						90					95	
Ala	Lys	Gly	Arg	Phe	Ser	Thr	Asp	Ser	Ser	His	Phe	Phe	Arg	Ala	Val
		100					105						110		
Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Ala	Val	Thr	Val	Ser	Ser
	115						120					125			

<210> 64

<211> 128

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 64

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

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

<210> 65

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 65

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

<210> 66

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 66

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

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

<210> 67
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 67

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

<210> 68
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 68

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

Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Leu	Ser	Ser	Tyr	Pro	Leu
				85					90					95	
Ser	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys					
			100					105							

<210> 69
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 70
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 71
 <211> 294
 <212> PRT
 <213> *Pseudomonas aeruginosa*

<400> 71
 Met Glu Val Arg Asn Leu Asn Ala Ala Arg Glu Leu Phe Leu Asp Glu
 1 5 10 15
 Leu Leu Ala Ala Ser Ala Ala Pro Ala Ser Ala Glu Gln Glu Glu Leu
 20 25 30
 Leu Ala Leu Leu Arg Ser Glu Arg Ile Val Leu Ala His Ala Gly Gln
 35 40 45
 Pro Leu Ser Glu Ala Gln Val Leu Lys Ala Leu Ala Trp Leu Leu Ala
 50 55 60
 Ala Asn Pro Ser Ala Pro Pro Gly Gln Gly Leu Glu Val Leu Arg Glu
 65 70 75 80
 Val Leu Gln Ala Arg Arg Gln Pro Gly Ala Gln Trp Asp Leu Arg Glu
 85 90 95
 Phe Leu Val Ser Ala Tyr Phe Ser Leu His Gly Arg Leu Asp Glu Asp
 100 105 110
 Val Ile Gly Val Tyr Lys Asp Val Leu Gln Thr Gln Asp Gly Lys Arg
 115 120 125
 Lys Ala Leu Leu Asp Glu Leu Lys Ala Leu Thr Ala Glu Leu Lys Val
 130 135 140
 Tyr Ser Val Ile Gln Ser Gln Ile Asn Ala Ala Leu Ser Ala Lys Gln
 145 150 155 160
 Gly Ile Arg Ile Asp Ala Gly Gly Ile Asp Leu Val Asp Pro Thr Leu
 165 170 175
 Tyr Gly Tyr Ala Val Gly Asp Pro Arg Trp Lys Asp Ser Pro Glu Tyr
 180 185 190
 Ala Leu Leu Ser Asn Leu Asp Thr Phe Ser Gly Lys Leu Ser Ile Lys
 195 200 205
 Asp Phe Leu Ser Gly Ser Pro Lys Gln Ser Gly Glu Leu Lys Gly Leu
 210 215 220
 Ser Asp Glu Tyr Pro Phe Glu Lys Asp Asn Asn Pro Val Gly Asn Phe
 225 230 235 240
 Ala Thr Thr Val Ser Asp Arg Ser Arg Pro Leu Asn Asp Lys Val Asn
 245 250 255
 Glu Lys Thr Thr Leu Leu Asn Asp Thr Ser Ser Arg Tyr Asn Ser Ala
 260 265 270
 Val Glu Ala Leu Asn Arg Phe Ile Gln Lys Tyr Asp Ser Val Leu Arg
 275 280 285
 Asp Ile Leu Ser Ala Ile
 290

<210> 72
 <211> 107
 <212> PRT
 <213> *Homo sapiens*

<400> 72

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

<210> 73

<211> 330

<212> PRT

<213> Homo sapiens

<400> 73

Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys
1				5					10					15	
Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr
			20					25					30		
Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser
		35					40					45			
Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser
	50					55					60				
Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr
65					70					75					80
Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys
			85						90					95	
Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys
			100					105					110		
Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro
		115				120						125			
Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys
	130					135				140					
Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp
145					150					155					160
Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu
			165						170					175	
Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu
			180					185					190		
His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn
		195				200						205			
Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly
	210					215					220				
Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu
225					230					235					240
Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr
				245					250					255	

Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn
			260					265					270		
Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe
		275					280					285			
Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn
	290					295					300				
Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr
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			325						330						

<210> 74

<211> 327

<212> PRT

<213> Homo sapiens

<400> 74

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			20					25					30		
Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser
	35					40					45				
Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser
	50					55				60					
Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Lys	Thr
65					70				75						80
Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys
			85					90						95	
Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Ser	Cys	Pro	Ala	Pro
		100						105					110		
Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
		115					120					125			
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
	130					135					140				
Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp
145					150				155						160
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe
				165					170					175	
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
			180					185					190		
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu
		195					200					205			
Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
	210					215					220				
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys
225					230					235					240
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
				245					250					255	
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
		260						265					270		
Thr	Thr	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	
		275					280					285			

Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser
290						295					300				
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
305					310					315					320
Leu	Ser	Leu	Ser	Leu	Gly	Lys									
				325											