

20160414_SEQ1_12358WOPCT
SEQUENCE LISTING

<110> BRISTOL-MYERS SQUIBB COMPANY
<120> POLYPEPTIDES TARGETING HIV FUSION
<130> 12358-WO-PCT
<150> US 62/152,271
<151> 2015-04-24
<150> US 62/257,474
<151> 2015-11-19
<160> 428
<170> PatentIn version 3.5
<210> 1
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> Human fibronectin
<400> 1

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

<210> 2
<211> 172
<212> PRT
<213> Artificial Sequence
<220>
<223> GP41 External domain
<400> 2

Ala	Val	Gly	Ile	Gly	Ala	Met	Phe	Leu	Gly	Phe	Leu	Gly	Ala	Ala	Gly
1				5					10					15	
Ser	Thr	Met	Gly	Ala	Ala	Ser	Val	Thr	Leu	Thr	Val	Gln	Ala	Arg	Gln
			20					25					30		

20160414_SEQ1_12358WOPCT

Leu Leu Ser Gly Ile Val Gln Gln Gln Asn Asn Leu Leu Arg Ala Ile
35 40 45

Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val Trp Gly Ile Lys Gln
50 55 60

Leu Gln Ala Arg Val Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln Gln
65 70 75 80

Leu Leu Gly Ile Trp Gly Cys Ser Gly Lys Leu Ile Cys Thr Thr Ala
85 90 95

Val Pro Trp Asn Ala Ser Trp Ser Asn Lys Ser Leu Asp Glu Ile Trp
100 105 110

Asn Asn Met Thr Trp Met Glu Trp Glu Arg Glu Ile Asp Asn Tyr Thr
115 120 125

Gly Leu Ile Tyr Thr Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Lys
130 135 140

Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu Trp Asn
145 150 155 160

Trp Phe Asp Ile Thr Asn Trp Leu Trp Tyr Ile Lys
165 170

<210> 3
<211> 251
<212> PRT
<213> Artificial sequence

<220>
<223> Combinectin

<400> 3

Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro
1 5 10 15

Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val His Ser
20 25 30

Tyr His Ile Gln Tyr Trp Pro Leu Gly Ser Tyr Gln Arg Tyr Gln Val
35 40 45

Phe Ser Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys
50 55 60

Pro Gly Val Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly
65 70 75 80

20160414_SEQ1_12358WOPCT

Glu Ser Asp Gln Ser₈₅ Leu Gly Trp Ile Gln₉₀ Ile Gly Tyr Arg Thr Glu₉₅

Glu Ser Pro Glu₁₀₀ Pro Glu Thr Pro Glu₁₀₅ Asp Glu Gly Val Ser Asp Val₁₁₀

Pro Arg Asp₁₁₅ Leu Glu Val Val Ala₁₂₀ Ala Thr Pro Thr Ser₁₂₅ Leu Leu Ile

Ser Trp₁₃₀ Gln Tyr Lys Val His₁₃₅ Pro Tyr Arg Tyr Tyr₁₄₀ Arg Ile Thr Tyr

Gly₁₄₅ Glu Thr Gly Gly Asn₁₅₀ Ser Pro Val Gln Glu₁₅₅ Phe Thr Val Pro Ser₁₆₀

Val Leu Ser Thr Ala₁₆₅ Glu Ile Ser Gly Leu₁₇₀ Lys Pro Gly Val Asp₁₇₅ Tyr

Thr Ile Thr Val₁₈₀ Tyr Ala Val Thr Arg₁₈₅ Gly Val Asp Ser Ala₁₉₀ Pro Ile

Ser Ile Asn₁₉₅ Tyr Arg Thr Pro Gly₂₀₀ Gly Gly Gly Ser Gly₂₀₅ Gly Gly Gly

Ser Gly₂₁₀ Gly Gly Gly ser Gly₂₁₅ Gly Gly Gly Ser Glu₂₂₀ Tyr Glu Ala Arg

Ile Glu Ala Leu Ile Arg₂₃₀ Ala Ala Gln Glu Gln₂₃₅ Gln Glu Lys Asn Glu₂₄₀

Ala Ala Leu Arg Glu₂₄₅ Leu Tyr Lys Trp Ala₂₅₀ Leu

<210> 4
 <211> 497
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Combinectin

<400> 4

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly₁₅₁₀₁₅

Gly Pro Ser Val₂₀ Phe Leu Phe Pro Pro₂₅ Lys Pro Lys Asp Thr₃₀ Leu Met

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His₃₅₄₀₄₅

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp₅₀₅₅₆₀ Gly Val Glu Val

20160414_SEQ1_12358WOPCT

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr
 65 70 75 80
 Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 85 90 95
 Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
 100 105 110
 Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
 115 120 125
 Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
 130 135 140
 Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
 145 150 155 160
 Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
 165 170 175
 Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
 180 185 190
 Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
 195 200 205
 His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
 210 215 220
 Pro Glu Ser Pro Glu Pro Glu Thr Pro Glu Asp Glu Ser Pro Glu Pro
 225 230 235 240
 Glu Thr Pro Glu Asp Glu Gly Val Ser Asp Val Pro Arg Asp Leu Glu
 245 250 255
 Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro
 260 265 270
 Ala Val Thr Val His Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Ser
 275 280 285
 Tyr Gln Arg Tyr Gln Val Phe Ser Val Pro Gly Ser Lys Ser Thr Ala
 290 295 300
 Thr Ile Ser Gly Leu Lys Pro Gly Val Glu Tyr Gln Ile Arg Val Tyr
 305 310 315 320
 Ala Glu Thr Gly Arg Gly Glu Ser Asp Gln Ser Leu Gly Trp Ile Gln
 325 330 335

20160414_SEQ1_12358WOPCT

Ile Gly Tyr Arg Thr Glu Glu Ser Pro Glu Pro Glu Thr Pro Glu Asp
340 345 350

Glu Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
355 360 365

Pro Thr Ser Leu Leu Ile Ser Trp Gln Tyr Lys Val His Pro Tyr Arg
370 375 380

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
385 390 395 400

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Glu Ile Ser Gly Leu
405 410 415

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Arg Gly
420 425 430

Val Asp Ser Ala Pro Ile Ser Ile Asn Tyr Arg Thr Pro Gly Gly Gly
435 440 445

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
450 455 460

Ser Glu Tyr Glu Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu
465 470 475 480

Gln Gln Glu Lys Asn Glu Ala Ala Leu Arg Glu Leu Tyr Lys Trp Ala
485 490 495

Leu

<210> 5
<211> 251
<212> PRT
<213> Artificial sequence

<220>
<223> Combinectin

<400> 5

Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro
1 5 10 15

Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val His Ser
20 25 30

Tyr His Ile Gln Tyr Trp Pro Leu Gly Ser Tyr Gln Arg Tyr Gln Val
35 40 45

20160414_SEQ1_12358WOPCT

Phe Ser Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys
50 55 60

Pro Gly Val Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly
65 70 75 80

Glu Ser Asp Gln Ser Leu Gly Trp Ile Gln Ile Gly Tyr Arg Thr Glu
85 90 95

Glu Ser Pro Glu Pro Glu Thr Pro Glu Asp Glu Gly Val Ser Asp Val
100 105 110

Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile
115 120 125

Ser Trp Glu Tyr Asn Val Asn Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr
130 135 140

Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser
145 150 155 160

Val Leu Ser Ser Ala Gln Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr
165 170 175

Thr Ile Thr Val Tyr Ala Val Thr Arg Gly Val Asp Ser Ala Pro Ile
180 185 190

Ser Ile Asn Tyr Arg Thr Pro Gly Gly Gly Gly Ser Gly Gly Gly Gly
195 200 205

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Tyr Glu Ala Arg
210 215 220

Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys Asn Glu
225 230 235 240

Ala Ala Leu Arg Glu Leu Trp Lys Trp Ala Ser
245 250

<210> 6
<211> 497
<212> PRT
<213> Artificial sequence

<220>
<223> Combinectin

<400> 6

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
1 5 10 15

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
20 25 30

20160414_SEQ1_12358WOPCT

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
35 40 45

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
50 55 60

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr
65 70 75 80

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
85 90 95

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
100 105 110

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
115 120 125

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
130 135 140

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
145 150 155 160

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
165 170 175

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
180 185 190

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
195 200 205

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
210 215 220

Pro Glu Ser Pro Glu Pro Glu Thr Pro Glu Asp Glu Ser Pro Glu Pro
225 230 235 240

Glu Thr Pro Glu Asp Glu Gly Val Ser Asp Val Pro Arg Asp Leu Glu
245 250 255

Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro
260 265 270

Ala Val Thr Val His Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Ser
275 280 285

Tyr Gln Arg Tyr Gln Val Phe Ser Val Pro Gly Ser Lys Ser Thr Ala
290 295 300

20160414_SEQ1_12358WOPCT

Thr Ile Ser Gly Leu Lys Pro Gly Val Glu Tyr Gln Ile Arg Val Tyr
305 310 315 320

Ala Glu Thr Gly Arg Gly Glu Ser Asp Gln Ser Leu Gly Trp Ile Gln
325 330 335

Ile Gly Tyr Arg Thr Glu Glu Ser Pro Glu Pro Glu Thr Pro Glu Asp
340 345 350

Glu Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
355 360 365

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Asn Val Asn Pro Tyr Arg
370 375 380

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
385 390 395 400

Glu Phe Thr Val Pro Ser Val Leu Ser Ser Ala Gln Ile Ser Gly Leu
405 410 415

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Arg Gly
420 425 430

Val Asp Ser Ala Pro Ile Ser Ile Asn Tyr Arg Thr Pro Gly Gly Gly
435 440 445

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
450 455 460

Ser Glu Tyr Glu Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu
465 470 475 480

Gln Gln Glu Lys Asn Glu Ala Ala Leu Arg Glu Leu Trp Lys Trp Ala
485 490 495

Ser

<210> 7
<211> 251
<212> PRT
<213> Artificial sequence

<220>
<223> Combinectin

<400> 7

Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro
1 5 10 15

20160414_SEQ1_12358WOPCT

Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val His Ser
20 25 30

Tyr His Ile Gln Tyr Trp Pro Leu Gly Ser Tyr Gln Arg Tyr Gln Val
35 40 45

Phe Ser Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys
50 55 60

Pro Gly Val Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly
65 70 75 80

Glu Ser Asp Gln Ser Leu Gly Trp Ile Gln Ile Gly Tyr Arg Thr Pro
85 90 95

Glu Ser Pro Glu Pro Glu Thr Pro Glu Asp Glu Gly Val Ser Asp Val
100 105 110

Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile
115 120 125

Ser Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr
130 135 140

Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser
145 150 155 160

Val Leu Ser Ser Ala Glu Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr
165 170 175

Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly Ile Asp Ser Pro Pro Ile
180 185 190

Ser Ile Asn Tyr Arg Thr Glu Gly Gly Gly Gly Ser Gly Gly Gly Gly
195 200 205

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Tyr Glu Ala Arg
210 215 220

Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys Asn Glu
225 230 235 240

Ala Ala Leu Arg Glu Leu Tyr Lys Trp Ala Leu
245 250

<210> 8
<211> 857
<212> PRT
<213> Artificial sequence

<220>
<223> Combinectin

<400> 8

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

20160414_SEQ1_12358WOPCT

Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu Leu Glu Lys Ser His
275 280 285

Cys Ile Ala Glu Val Glu Asn Asp Glu Met Pro Ala Asp Leu Pro Ser
290 295 300

Leu Ala Ala Asp Phe Val Glu Ser Lys Asp Val Cys Lys Asn Tyr Ala
305 310 315 320

Glu Ala Lys Asp Val Phe Leu Gly Met Phe Leu Tyr Glu Tyr Ala Arg
325 330 335

Arg His Pro Asp Tyr Ser Val Val Leu Leu Leu Arg Leu Ala Lys Thr
340 345 350

Tyr Glu Thr Thr Leu Glu Lys Cys Cys Ala Ala Ala Asp Pro His Glu
355 360 365

Cys Tyr Ala Lys Val Phe Asp Glu Phe Lys Pro Leu Val Glu Glu Pro
370 375 380

Gln Asn Leu Ile Lys Gln Asn Cys Glu Leu Phe Glu Gln Leu Gly Glu
385 390 395 400

Tyr Lys Phe Gln Asn Ala Leu Leu Val Arg Tyr Thr Lys Lys Val Pro
405 410 415

Gln Val Ser Thr Pro Thr Leu Val Glu Val Ser Arg Asn Leu Gly Lys
420 425 430

Val Gly Ser Lys Cys Cys Lys His Pro Glu Ala Lys Arg Met Pro Cys
435 440 445

Ala Glu Asp Tyr Leu Ser Val Val Leu Asn Gln Leu Cys Val Leu His
450 455 460

Glu Lys Thr Pro Val Ser Asp Arg Val Thr Lys Cys Cys Thr Glu Ser
465 470 475 480

Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu Glu Val Asp Glu Thr
485 490 495

Tyr Val Pro Lys Glu Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp
500 505 510

Ile Cys Thr Leu Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala
515 520 525

Leu Val Glu Leu Val Lys His Lys Pro Lys Ala Thr Lys Glu Gln Leu
530 535 540

20160414_SEQ1_12358WOPCT

Lys Ala Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys
 545 550 555 560
 Ala Asp Asp Lys Glu Thr Cys Phe Ala Glu Glu Gly Lys Lys Leu Val
 565 570 575
 Ala Ala Ser Gln Ala Ala Leu Gly Leu Glu Ser Pro Glu Pro Glu Thr
 580 585 590
 Pro Glu Asp Glu Ser Pro Glu Pro Glu Thr Pro Glu Asp Glu Gly Val
 595 600 605
 Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser
 610 615 620
 Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val His Ser Tyr His
 625 630 635 640
 Ile Gln Tyr Trp Pro Leu Gly Ser Tyr Gln Arg Tyr Gln Val Phe Ser
 645 650 655
 Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
 660 665 670
 Val Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser
 675 680 685
 Asp Gln Ser Leu Gly Trp Ile Gln Ile Gly Tyr Arg Thr Pro Glu Ser
 690 695 700
 Pro Glu Pro Glu Thr Pro Glu Asp Glu Gly Val Ser Asp Val Pro Arg
 705 710 715 720
 Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp
 725 730 735
 Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu
 740 745 750
 Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val Leu
 755 760 765
 Ser Ser Ala Glu Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile
 770 775 780
 Thr Val Tyr Ala Val Thr Tyr Gly Ile Asp Ser Pro Pro Ile Ser Ile
 785 790 795 800
 Asn Tyr Arg Thr Glu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
 805 810 815

20160414_SEQ1_12358WOPCT

Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Tyr Glu Ala Arg Ile Glu
820 825 830

Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys Asn Glu Ala Ala
835 840 845

Leu Arg Glu Leu Tyr Lys Trp Ala Leu
850 855

<210> 9
<211> 253
<212> PRT
<213> Artificial sequence

<220>
<223> Combinectin

<400> 9

Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro
1 5 10 15

Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val His Ser
20 25 30

Tyr His Ile Gln Tyr Trp Pro Leu Gly Ser Tyr Gln Arg Tyr Gln Val
35 40 45

Phe Ser Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys
50 55 60

Pro Gly Val Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Gly Ala
65 70 75 80

Asp Ser Asp Gln Ser Phe Gly Trp Ile Gln Ile Gly Tyr Arg Thr Pro
85 90 95

Glu Ser Pro Glu Pro Glu Thr Pro Glu Asp Glu Gly Val Ser Asp Val
100 105 110

Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile
115 120 125

Ser Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr
130 135 140

Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser
145 150 155 160

Val Leu Ser Thr Ala Glu Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr
165 170 175

20160414_SEQ1_12358WOPCT

Thr Ile Thr Val Tyr Ala Val Thr Arg Gly Val Asp Ser Ala Pro Ile
180 185 190

Ser Ile Asn Tyr Arg Thr Pro Gly Gly Gly Gly Ser Gly Gly Gly Gly
195 200 205

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Thr Ile Ala Glu Tyr Ala
210 215 220

Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys
225 230 235 240

Asn Glu Ala Ala Leu Arg Glu Leu Tyr Lys Trp Ala Ser
245 250

<210> 10
<211> 863
<212> PRT
<213> Artificial sequence

<220>
<223> Combinectin

<400> 10

Asp Ala His Lys Ser Glu Val Ala His Arg Phe Lys Asp Leu Gly Glu
1 5 10 15

Glu Asn Phe Lys Ala Leu Val Leu Ile Ala Phe Ala Gln Tyr Leu Gln
20 25 30

Gln Ala Pro Phe Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu
35 40 45

Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys
50 55 60

Ser Leu His Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu
65 70 75 80

Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro
85 90 95

Glu Arg Asn Glu Cys Phe Leu Gln His Lys Asp Asp Asn Pro Asn Leu
100 105 110

Pro Arg Leu Val Arg Pro Glu Val Asp Val Met Cys Thr Ala Phe His
115 120 125

Asp Asn Glu Glu Thr Phe Leu Lys Lys Tyr Leu Tyr Glu Ile Ala Arg
130 135 140

Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe Ala Lys Arg
145 150 155 160

20160414_SEQ1_12358WOPCT

Tyr Lys Ala Ala Phe Thr Glu Cys Cys Gln Ala Ala Asp Lys Ala Ala
 165 170 175
 Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg Asp Glu Gly Lys Ala Ser
 180 185 190
 Ser Ala Lys Gln Arg Leu Lys Cys Ala Ser Leu Gln Lys Phe Gly Glu
 195 200 205
 Arg Ala Phe Lys Ala Trp Ala Val Ala Arg Leu Ser Gln Arg Phe Pro
 210 215 220
 Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val Thr Asp Leu Thr Lys
 225 230 235 240
 Val His Thr Glu Cys Cys His Gly Asp Leu Leu Glu Cys Ala Asp Asp
 245 250 255
 Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn Gln Asp Ser Ile Ser
 260 265 270
 Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu Leu Glu Lys Ser His
 275 280 285
 Cys Ile Ala Glu Val Glu Asn Asp Glu Met Pro Ala Asp Leu Pro Ser
 290 295 300
 Leu Ala Ala Asp Phe Val Glu Ser Lys Asp Val Cys Lys Asn Tyr Ala
 305 310 315 320
 Glu Ala Lys Asp Val Phe Leu Gly Met Phe Leu Tyr Glu Tyr Ala Arg
 325 330 335
 Arg His Pro Asp Tyr Ser Val Val Leu Leu Leu Arg Leu Ala Lys Thr
 340 345 350
 Tyr Glu Thr Thr Leu Glu Lys Cys Cys Ala Ala Ala Asp Pro His Glu
 355 360 365
 Cys Tyr Ala Lys Val Phe Asp Glu Phe Lys Pro Leu Val Glu Glu Pro
 370 375 380
 Gln Asn Leu Ile Lys Gln Asn Cys Glu Leu Phe Glu Gln Leu Gly Glu
 385 390 395 400
 Tyr Lys Phe Gln Asn Ala Leu Leu Val Arg Tyr Thr Lys Lys Val Pro
 405 410 415
 Gln Val Ser Thr Pro Thr Leu Val Glu Val Ser Arg Asn Leu Gly Lys
 420 425 430

20160414_SEQ1_12358WOPCT

Val Gly Ser Lys Cys Cys Lys His Pro Glu Ala Lys Arg Met Pro Cys
 435 440 445
 Ala Glu Asp Tyr Leu Ser Val Val Leu Asn Gln Leu Cys Val Leu His
 450 455 460
 Glu Lys Thr Pro Val Ser Asp Arg Val Thr Lys Cys Cys Thr Glu Ser
 465 470 475 480
 Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu Glu Val Asp Glu Thr
 485 490 495
 Tyr Val Pro Lys Glu Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp
 500 505 510
 Ile Cys Thr Leu Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala
 515 520 525
 Leu Val Glu Leu Val Lys His Lys Pro Lys Ala Thr Lys Glu Gln Leu
 530 535 540
 Lys Ala Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys
 545 550 555 560
 Ala Asp Asp Lys Glu Thr Cys Phe Ala Glu Glu Gly Lys Lys Leu Val
 565 570 575
 Ala Ala Ser Gln Ala Ala Leu Gly Leu Gly Gly Gly Gly Ser Gly Gly
 580 585 590
 Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
 595 600 605
 Gly Ser Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala
 610 615 620
 Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val
 625 630 635 640
 His Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Ser Tyr Gln Arg Tyr
 645 650 655
 Gln Val Phe Ser Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly
 660 665 670
 Leu Lys Pro Gly Val Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly
 675 680 685
 Gly Ala Asp Ser Asp Gln Ser Phe Gly Trp Ile Gln Ile Gly Tyr Arg
 690 695 700

20160414_SEQ1_12358WOPCT

Thr Pro Glu Ser Pro Glu Pro Glu Thr Pro Glu Asp Glu Gly Val Ser
705 710 715 720

Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu
725 730 735

Leu Ile Ser Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile
740 745 750

Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val
755 760 765

Pro Ser Val Leu Ser Thr Ala Glu Ile Ser Gly Leu Lys Pro Gly Val
770 775 780

Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Arg Gly Val Asp Ser Ala
785 790 795 800

Pro Ile Ser Ile Asn Tyr Arg Thr Pro Gly Gly Gly Gly Ser Gly Gly
805 810 815

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Thr Ile Ala Glu
820 825 830

Tyr Ala Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln
835 840 845

Glu Lys Asn Glu Ala Ala Leu Arg Glu Leu Tyr Lys Trp Ala Ser
850 855 860

<210> 11
<211> 227
<212> PRT
<213> Artificial Sequence

<220>
<223> human IgG1 immunoglobulin Fc domain

<400> 11

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
1 5 10 15

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
20 25 30

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
35 40 45

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
50 55 60

20160414_SEQ1_12358WOPCT

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
65 70 75 80

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
85 90 95

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
100 105 110

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
115 120 125

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
130 135 140

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
145 150 155 160

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
165 170 175

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
180 185 190

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
195 200 205

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
210 215 220

Pro Gly Lys
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Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
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His Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Ser Tyr Gln Arg Tyr
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Gln Val Phe

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Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Gly Ala Asp Ser Asp
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Gln Ser Met Gly Trp Ile Gln Ile Gly
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Leu Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Leu Tyr Gln Ala Tyr
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Gln Val Phe

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<400> 16

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
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His Ala Tyr His Ile Gln Tyr Trp Pro Leu Gly Phe Tyr Gln Gly Tyr
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Gln Val Phe

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<400> 18

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Leu Gly Asp Ala His
 1 5 10 15

Gln Ser Leu Gly Trp Ile Gln Ile Gly
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Leu Ala Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr Gln Arg Tyr
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Gln Ile Phe

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Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
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<400> 21

Leu Ala Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr Gln Arg Tyr
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Gln Val Phe

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Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
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His Phe Tyr His Ile Gln Tyr Trp Pro Leu Gly Leu Tyr His Leu Tyr
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Gln Val Phe

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<400> 24

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
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Tyr Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr His Arg Tyr
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Gln Val Phe

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<400> 26

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Ala Asp Asp Pro Val
 1 5 10 15

Gln Ala Leu Gly Trp Ile Gln Ile Gly
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<400> 27

Arg Cys Tyr His Ile Gln Tyr Trp Pro Leu Gly Leu Tyr Pro Leu Tyr
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Gln Val Phe

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<400> 28

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

Gln Pro Phe Gly Trp Ile Gln Ile Gly
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<400> 29

Tyr Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr Gln Arg Tyr
1 5 10 15

Gln Val Phe

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<400> 30

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

Gln Ser Phe Gly Trp Ile Gln Ile Gly
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<400> 31

Ser Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Ala Tyr Gln Arg Tyr
1 5 10 15

Gln Val Phe

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<400> 32

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
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<400> 33

His Ala Tyr His Ile Gln Tyr Trp Pro Leu Gly Leu Tyr Gln Arg Tyr
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Gln Val Phe

<210> 34

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<212> PRT

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<400> 34

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
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<400> 35

His Ala Tyr Tyr Ile Gln Tyr Trp Pro Leu Gly Ser Tyr Gln Phe Tyr
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Gln Val Phe

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<400> 36

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
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<210> 37

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<400> 37

His Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Ser Tyr Leu Arg Tyr
 1 5 10 15

Gln Val Phe

<210> 38

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<400> 38

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
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<400> 39

Leu Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Phe Tyr Gln Arg Tyr
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Gln Val Phe

20160414_SEQ1_12358WOPCT

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<400> 40

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
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<400> 41

Ser Ala Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr His Arg Tyr
 1 5 10 15

Gln Ile Phe

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<400> 42

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
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<400> 43

Tyr Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Ala Tyr Ser Arg His
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Gln Leu Phe

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<400> 44

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

Met Tyr Phe Gly Trp Ile Gln Ile Gly
 20 25

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<400> 45

Leu Ala Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr His Leu Tyr
 1 5 10 15

Gln Val Phe

<210> 46
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<400> 46

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
 20 25

<210> 47
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<400> 47

20160414_SEQ1_12358WOPCT

Leu Ala Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr Gln Leu Tyr
1 5 10 15

Lys Val Phe

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<400> 48

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

Gln Tyr Leu Gly Trp Ile Gln Ile Gly
20 25

<210> 49
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<400> 49

His Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr Gln Leu Tyr
1 5 10 15

Gln Val Phe

<210> 50
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<400> 50

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

His Ser Phe Gly Trp Ile Gln Ile Gly
20 25

<210> 51
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<400> 51

Leu Ala Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr Gln Arg Tyr
 1 5 10 15

Gln Ile Phe

<210> 52

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<400> 52

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Glu Ser Gly Ala Gln
 1 5 10 15

Gln Ser Phe Gly Trp Ile Gln Ile Gly
 20 25

<210> 53

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<400> 53

Gln Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Ala Tyr Gln Leu Tyr
 1 5 10 15

Gln Leu Phe

<210> 54

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<400> 54

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
 20 25

<210> 55

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<400> 55

His Ala Tyr His Ile Gln Tyr Trp Pro Leu Gly Phe Tyr Gln Gly Tyr
 1 5 10 15

Gln Val Phe

<210> 56
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<400> 56

Glu Tyr Gln Ile Arg Val Tyr Ala Asp Thr Gly Arg Gly Tyr Gln Leu
 1 5 10 15

Ser Tyr Ser Trp Ile Gln Ile Gly Tyr
 20 25

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<400> 57

Phe Arg Tyr His Ile Gln Tyr Trp Pro Leu Gly Gly Tyr Glu Arg Tyr
 1 5 10 15

Gln Val Phe

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<400> 58

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
 20 25

<210> 59
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<220>
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<400> 59

His Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Ser Tyr His Leu Tyr
 1 5 10 15

Gln Leu Phe

<210> 60
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<400> 60

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
 20 25

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<400> 61

His Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr Gln Leu Tyr
 1 5 10 15

Gln Val Phe

<210> 62
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<400> 62

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Gly Phe Gly Ser Pro
 1 5 10 15

Pro Asn Phe Gly Trp Ile Gln Ile Gly
20 25

<210> 63
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<400> 63

Gln Phe Tyr His Ile Gln Tyr Trp Pro Leu Gly Ser Tyr Gln Arg Tyr
1 5 10 15

Gln Val Phe

<210> 64
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<400> 64

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
20 25

<210> 65
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<400> 65

Asn Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr His Arg Tyr
1 5 10 15

Gln Val Phe

<210> 66
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<400> 66

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
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<400> 67

His Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Arg Tyr Gln Leu Tyr
 1 5 10 15

Gln Val Phe

<210> 68

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<400> 68

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
 20 25

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<400> 69

Leu Ala Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr His Leu Tyr
 1 5 10 15

Gln Ile Phe

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<400> 70

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Gly Val Gly Trp His
1 5 10 15

His Ser Phe Gly Trp Ile Gln Ile Gly
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<400> 71

His Val Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr Pro Arg Tyr
1 5 10 15

Gln Val Phe

<210> 72

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<400> 72

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
20 25

<210> 73

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<400> 73

His Ser Tyr His Ile Pro Tyr Trp Glu Leu Ala Trp Tyr Gln Arg Tyr
1 5 10 15

Gln Val Phe

20160414_SEQ1_12358WOPCT

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<400> 74

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
 20 25

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<400> 75

Glu Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Leu Tyr His Arg Tyr
 1 5 10 15

Gln Val Phe

<210> 76
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<400> 76

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
 20 25

<210> 77
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<400> 77

Leu Ala Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr Gln Ala Tyr
 1 5 10 15

Gln Val Phe

<210> 78
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<220>
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<400> 78

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
 20 25

<210> 79
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<400> 79

Tyr Leu Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr His Arg Tyr
 1 5 10 15

Gln Val Phe

<210> 80
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<400> 80

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
 20 25

<210> 81
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<400> 81

20160414_SEQ1_12358WOPCT

Arg Phe Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr His Cys Tyr
1 5 10 15

Gln Val Phe

<210> 82
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<220>
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<400> 82

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

Glu Tyr Phe Gly Trp Ile Gln Ile Gly
20 25

<210> 83
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<212> PRT
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<220>
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<400> 83

His Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr Tyr Arg Tyr
1 5 10 15

Gln Val Phe

<210> 84
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<400> 84

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Gly Ser Gly Ser Gln
1 5 10 15

Gln Tyr Trp Gly Trp Ile Gln Ile Gly
20 25

<210> 85
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<400> 85

His Ala Tyr His Ile Gln Tyr Trp Pro Leu Gly Phe Tyr Gln Gly Tyr
 1 5 10 15

Gln Val Phe

<210> 86

<211> 25

<212> PRT

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<220>

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<400> 86

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
 20 25

<210> 87

<211> 19

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<400> 87

His Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Leu Tyr Val Leu Tyr
 1 5 10 15

Gln Val Phe

<210> 88

<211> 25

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<400> 88

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Ala Gly Gly Ser Glu
 1 5 10 15

His Ser Phe Gly Trp Ile Gln Ile Gly
 20 25

<210> 89

<211> 19

<212> PRT
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<220>
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<400> 89

Leu Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Arg Tyr Glu Arg Tyr
 1 5 10 15

Gln Val Phe

<210> 90
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<400> 90

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Val Gly Gly Glu Ser Leu
 1 5 10 15

Asp Ser Phe Ser Trp Ile Gln Ile Gly
 20 25

<210> 91
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<220>
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<400> 91

Leu Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr Gln Leu Tyr
 1 5 10 15

Gln Val Phe

<210> 92
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 <212> PRT
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<220>
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<400> 92

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Arg Val Gly Gly Ser Val
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
 20 25

<210> 93
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 <212> PRT
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<220>
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<400> 93

Leu Ala Tyr His Ile Gln Tyr Trp Pro Leu Gly Arg Tyr Gln Leu Tyr
 1 5 10 15

Gln Val Phe

<210> 94
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<400> 94

Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Pro
 1 5 10 15

Ala Ser Phe Gly Trp Ile Gln Ile Gly
 20 25

<210> 95
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<400> 95

Met Ala Ser Thr Ser Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val
 1 5 10 15

Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala
 20 25 30

Val Thr Val His Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr
 35 40 45

Gln Arg Tyr Gln Val Phe Ser Val Pro Gly Ser Lys Ser Thr Ala Thr
 50 55 60

Ile Ser Gly Leu Lys Pro Glu Val Glu Tyr Gln Ile Arg Val Tyr Ala
 65 70 75 80

20160414_SEQ1_12358WOPCT

Glu Thr Gly Gly Gly Gly Ser Gln Gln Ser Phe Gly Trp Ile Gln Ile
85 90 95

Gly Tyr Arg Thr Glu Gly Ser Gly Ser His His His His His His
100 105 110

<210> 96
<211> 109
<212> PRT
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<400> 96

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Gln
20 25 30

Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Ser Tyr Gln Arg Tyr Gln
35 40 45

Val Phe Ser Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Gly
65 70 75 80

Ala Asp Ser Asp Gln Ser Met Gly Trp Ile Gln Ile Gly Tyr Arg Thr
85 90 95

Glu Gly Asp Lys Pro Ser Gln His His His His His His
100 105

<210> 97
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<212> PRT
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<400> 97

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val His
20 25 30

Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Trp Tyr Gln Arg Tyr Gln
35 40 45

20160414_SEQ1_12358WOPCT

Val Phe Ser Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Arg Ser
65 70 75 80

Gly Leu Ala Asp Glu Ser Phe Gly Trp Ile Gln Ile Gly Tyr Arg Thr
85 90 95

Glu Gly Asp Lys Pro Ser Gln His His His His His His
100 105

<210> 98
<211> 109
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 98

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val His
20 25 30

Ser Tyr His Ile Gln Tyr Trp Pro Leu Gly Ser Tyr Gln Arg Tyr Gln
35 40 45

Val Phe Ser Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Glu Tyr Gln Ile Arg Val Tyr Ala Glu Thr Gly Gly
65 70 75 80

Ala Asp Ser Asp Gln Ser Met Gly Trp Ile Gln Ile Gly Tyr Arg Thr
85 90 95

Glu Gly Asp Lys Pro Ser Gln His His His His His His
100 105

<210> 99
<211> 107
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 99

Met Gly His His His His His His Gly Gly Val Ser Asp Val Pro Arg
1 5 10 15

20160414_SEQ1_12358WOPCT

Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp
20 25 30

Asp Ala Pro Ala Val Thr Val His Ser Tyr His Ile Gln Tyr Trp Pro
35 40 45

Leu Gly Ser Tyr Gln Arg Tyr Gln Val Phe Ser Val Pro Gly Ser Lys
50 55 60

Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Glu Tyr Gln Ile
65 70 75 80

Arg Val Tyr Ala Glu Thr Gly Gly Ala Asp Ser Asp Gln Ser Phe Gly
85 90 95

Trp Ile Gln Ile Gly Tyr Arg Thr Pro Glu Ser
100 105

<210> 100
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 100

Met Ala Ser Thr Ser Gly Ser Ser Ser Tyr Leu Met Pro Ser Asp Leu
1 5 10 15

Glu Val Val Ala Ala Thr Pro Thr Ser Leu Tyr Ile His Trp Tyr Pro
20 25 30

Ile Ala Ser Thr Ile Ile Asn Phe Arg Ile Thr Tyr Gly Glu Thr Gly
35 40 45

Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Gly Ser Gln Val His
50 55 60

Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr Val
65 70 75 80

Tyr Ala Val His Tyr Glu His Lys Tyr Ser Glu Leu Trp Met Gly His
85 90 95

Pro Ile Ser Ile Asn Tyr Arg Thr Glu Gly Ser Gly Ser His His His
100 105 110

His His His
115

<210> 101
<211> 115

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin

<400> 101

Met Ala Ser Thr Ser Gly Ser Ala Ser Tyr Leu Ile Pro Ser Asp Leu
 1 5 10 15

Glu Val Val Ala Ala Thr Pro Thr Ser Leu Ser Ile Tyr Trp Tyr Pro
 20 25 30

Val Ala Ser Thr Ile Ile Asn Phe Arg Ile Thr Tyr Val Glu Thr Gly
 35 40 45

Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Gly Ser Lys Ser Thr
 50 55 60

Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr Val
 65 70 75 80

Tyr Ala Val His Tyr Glu Gln Lys Tyr Ser Glu Tyr Trp Ile Gly His
 85 90 95

Pro Ile Ser Ile Asn Tyr Arg Thr Glu Gly Ser Gly Ser His His His
 100 105 110

His His His
 115

<210> 102
 <211> 115
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin

<400> 102

Met Ala Ser Thr Ser Gly Ser Ser Pro Tyr Leu Met Pro Tyr Asp Leu
 1 5 10 15

Glu Val Val Ala Ala Thr Pro Thr Ser Leu Phe Ile Arg Trp Tyr Gly
 20 25 30

Ser Ala Ser Ser Ile Val Lys Phe Arg Ile Thr Tyr Gly Glu Thr Gly
 35 40 45

Gly Asn Ser Pro Val Gln Glu Phe Thr Val Gly Gly Thr Gln Leu His
 50 55 60

Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr Val
 65 70 75 80

20160414_SEQ1_12358WOPCT

Tyr Ala Val His Phe Glu His Lys Tyr Ser Glu Leu Trp Ile Gly His
85 90 95

Pro Ile Ser Ile Asn Tyr Arg Thr Glu Gly Ser Gly Ser His His His
100 105 110

His His His
115

<210> 103
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 103

Met Ala Ser Thr Ser Gly Tyr Thr Ser Tyr Pro Ile Pro Tyr Asp Leu
1 5 10 15

Glu Val Val Ala Ala Thr Pro Thr Ser Leu Tyr Ile His Trp Tyr Trp
20 25 30

Ile Ala Ala Thr Ile Ile Ser Phe Arg Ile Thr Tyr Gly Glu Thr Gly
35 40 45

Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ala Gly Gln Asp His
50 55 60

Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr Val
65 70 75 80

Tyr Ala Val His Tyr Glu Glu Glu Tyr Ser Glu Phe Trp Thr Gly His
85 90 95

Pro Ile Ser Ile Asn Tyr Arg Thr Glu Gly Ser Gly Ser His His His
100 105 110

His His His
115

<210> 104
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 104

Met Ala Ser Thr Ser Gly Thr His Trp Phe Tyr Ser Ile Pro His Asp
1 5 10 15

20160414_SEQ1_12358WOPCT

Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Thr Ile Ala Trp Glu
20 25 30

Pro Pro His His Thr Ala Met Gly Tyr Arg Ile Thr Tyr Gly Glu Thr
35 40 45

Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Gly Gly Tyr Thr
50 55 60

Thr Ala Tyr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr
65 70 75 80

Val Tyr Ala Ala Tyr Tyr Glu Arg Glu Tyr Ser Glu His Trp Ile Ser
85 90 95

His Pro Ile Ser Ile Asn Tyr Arg Thr Glu Gly Ser Gly Ser His His
100 105 110

His His His His
115

<210> 105
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 105

Met Ala Ser Thr Ser Gly Glu Phe Tyr His Thr Lys Tyr Pro Tyr Asp
1 5 10 15

Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Glu Ile Ser Trp Arg
20 25 30

Ser Pro Thr Arg Asp Trp Gln Trp Phe Arg Ile Thr Tyr Gly Glu Thr
35 40 45

Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Ala Gly Pro Tyr Arg
50 55 60

Asn Ala Ile Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr
65 70 75 80

Val Tyr Ala Asp Val Tyr Met Pro Ser Glu Gly Gly Leu Val Val Asp
85 90 95

Thr Tyr His Pro Ile Ser Ile Asn Tyr Arg Thr Glu Gly Ser Gly Ser
100 105 110

20160414_SEQ1_12358WOPCT

His His His His His
115

<210> 106
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 106

Met Ala Ser Thr Ser Gly Gln Ala Tyr Pro Glu Tyr Tyr Phe Val Asp
1 5 10 15

Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Ser
20 25 30

Lys Pro Tyr Tyr Asn Ala Tyr Ser Tyr Arg Ile Thr Tyr Gly Glu Thr
35 40 45

Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Leu Gly His Asp Thr
50 55 60

Arg Ala Val Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr
65 70 75 80

Val Tyr Ala Met Phe Ile Glu Tyr Ile Asp Gln Glu Ile Trp His Ala
85 90 95

His Pro Ile Ser Ile Asn Tyr Arg Thr Glu Gly Ser Gly Ser His His
100 105 110

His His His His
115

<210> 107
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 107

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Asp Glu His Thr Asp Ile Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

20160414_SEQ1_12358WOPCT

Glu Phe Thr Val Pro Ala Met Glu His Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr His Val
65 70 75 80

Tyr Pro Ile Met Ile His Gln Tyr Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

Glu Ile Asp Lys Pro Ser Gln His His His His His
100 105

<210> 108
<211> 111
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 108

Met Ala Ser Thr Ser Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val
1 5 10 15

Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala
20 25 30

Val Thr Val Leu Glu Tyr Gln Ile Asp Tyr His Pro Ala Ala Val Trp
35 40 45

His Ala Leu Gln Arg Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr
50 55 60

Ile Ser Gly Leu Lys Pro Gly Val His Tyr Lys Ile Ser Val Thr Ala
65 70 75 80

Thr Thr His Ala Asp Asn Glu Ser Ile Met Trp His Pro Ile Ser Ile
85 90 95

Tyr Tyr Arg Thr Glu Gly Ser Gly Ser His His His His His His
100 105 110

<210> 109
<211> 109
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 109

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

20160414_SEQ1_12358WOPCT

Pro Thr Ser Leu Leu Ile Ser Trp Asp Tyr Pro Thr Val Thr Pro Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Glu Tyr Ile Gly Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Asn Asp
65 70 75 80

Thr Thr Ile Tyr Ser Ile Ser Arg Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

Glu Ile Asp Lys Pro Ser Gln His His His His His His
100 105

<210> 110
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 110

Met Gly His His His His His His Gly Gly Val Ser Asp Val Pro Arg
1 5 10 15

Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp
20 25 30

Asp Ala Pro Ala Val Thr Val His Ser Tyr His Ile Gln Tyr Trp Pro
35 40 45

Leu Gly Ser Tyr Gln Arg Tyr Gln Val Phe Ser Val Pro Gly Ser Lys
50 55 60

Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Glu Tyr Gln Ile
65 70 75 80

Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Asp Gln Ser Leu Gly
85 90 95

Trp Ile Gln Ile Gly Tyr Arg Thr Glu Glu Ser
100 105

<210> 111
<211> 107
<212> PRT
<213> Artificial Sequence

<220>

<223> Adnectin

<400> 111

Met Gly His His His His His His Gly Gly Val Ser Asp Val Pro Arg
 1 5 10 15

Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp
 20 25 30

Asp Ala Pro Ala Val Thr Val His Ser Tyr His Ile Gln Tyr Trp Pro
 35 40 45

Leu Gly Ser Tyr Gln Arg Tyr Gln Val Phe Ser Val Pro Gly Ser Lys
 50 55 60

Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Glu Tyr Gln Ile
 65 70 75 80

Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Asp Gln Ser Phe Gly
 85 90 95

Trp Ile Gln Ile Gly Tyr Arg Thr Glu Glu Ser
 100 105

<210> 112

<211> 107

<212> PRT

<213> Artificial sequence

<220>

<223> Adnectin

<400> 112

Met Gly His His His His His His Gly Gly Val Ser Asp Val Pro Arg
 1 5 10 15

Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp
 20 25 30

Asp Ala Pro Ala Val Thr Val His Ser Tyr His Ile Gln Tyr Trp Pro
 35 40 45

Leu Gly Ser Tyr Gln Arg Tyr Gln Val Phe Ser Val Pro Gly Ser Lys
 50 55 60

Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Glu Tyr Gln Ile
 65 70 75 80

Arg Val Tyr Ala Glu Thr Gly Arg Gly Glu Ser Asp Gln Ser Leu Gly
 85 90 95

Trp Ile Gln Ile Gly Tyr Arg Thr Pro Glu Ser
 100 105

20160414_SEQ1_12358WOPCT

<210> 113
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin
 <400> 113

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

<210> 114
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin
 <400> 114

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

20160414_SEQ1_12358WOPCT

Arg Val Tyr Ala Glu Thr Gly Leu Gly Asp Ala His Gln Ser Leu Gly
85 90 95

Trp Ile Gln Ile Gly Tyr Arg Thr Pro Glu Ser
100 105

<210> 115
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 115

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val Asn Asn Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Val His Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 116
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 116

Met Ala Ser Thr Ser Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val
1 5 10 15

Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala
20 25 30

Val Thr Val Glu Gln Tyr Tyr Ile Ala Tyr Tyr Val Glu Gly Glu Pro
35 40 45

20160414_SEQ1_12358WOPCT

Ser Ser Tyr Gln Tyr Phe Arg Val Pro Gly Ser Lys Ser Thr Ala Thr
50 55 60

Ile Ser Gly Leu Lys Pro Gly Val Leu Tyr His Ile Tyr Val Asn Ala
65 70 75 80

Val Thr Gly Ser Gly Leu Arg Pro Glu Phe Ser Leu Pro Ile Arg Ile
85 90 95

Lys Tyr Arg Thr Glu Gly Ser Gly Ser His His His His His His
100 105 110

<210> 117
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 117

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 118
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 118

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

20160414_SEQ1_12358WOPCT

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

<210> 119
<211> 107
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 119

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

<210> 120
<211> 103
<212> PRT
<213> Artificial sequence

20160414_SEQ1_12358WOPCT

<220>

<223> Adnectin

<400> 120

Met Gly His His His His His His Gly Gly Val Ser Asp Val Pro Arg
1 5 10 15

Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp
20 25 30

Glu Tyr Asn Val Asn Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu
35 40 45

Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val Leu
50 55 60

Ser Ser Ala Gln Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile
65 70 75 80

Thr Val Tyr Ala Val Thr Arg Gly Val Asp Ser Ala Pro Ile Ser Ile
85 90 95

Asn Tyr Arg Thr Pro Gly Gly
100

<210> 121

<211> 103

<212> PRT

<213> Artificial sequence

<220>

<223> Adnectin

<400> 121

Met Gly His His His His His His Gly Gly Val Ser Asp Val Pro Arg
1 5 10 15

Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp
20 25 30

Glu Tyr Asn Val Asn Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu
35 40 45

Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val Leu
50 55 60

Ser Thr Ala Glu Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile
65 70 75 80

Thr Val Tyr Ala Val Thr Tyr Gly Val Asp Ser Asp Pro Ile Ser Ile
85 90 95

Asn Tyr Arg Thr Pro Gly Gly
100

<210> 122
<211> 103
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 122

Met Gly His His His His His His Gly Gly Val Ser Asp Val Pro Arg
1 5 10 15

Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp
20 25 30

Gln Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu
35 40 45

Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val Leu
50 55 60

Ser Thr Ala Glu Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile
65 70 75 80

Thr Val Tyr Ala Val Thr Arg Gly Val Asp Ser Ala Pro Ile Ser Ile
85 90 95

Asn Tyr Arg Thr Pro Gly Gly
100

<210> 123
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 123

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val His Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

20160414_SEQ1_12358WOPCT

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Arg Gly
65 70 75 80

Val Asp Ser Ala Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 124
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 124

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val His Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Glu Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Arg Gly
65 70 75 80

Val Asp Ser Ala Pro Ile Ser Ile Asn Tyr Arg Thr Pro Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 125
<211> 103
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 125

Met Gly His His His His His His Gly Gly Val Ser Asp Val Pro Arg
1 5 10 15

Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp
20 25 30

20160414_SEQ1_12358WOPCT

Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu
35 40 45

Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val Leu
50 55 60

Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile
65 70 75 80

Thr Val Tyr Ala Val Thr Tyr Gly Val Gln Ser Asp Pro Ile Ser Ile
85 90 95

Asn Tyr Arg Thr Pro Gly Gly
100

<210> 126
<211> 105
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 126

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val His Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Ile Gln Ser Pro Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 127
<211> 103
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 127

20160414_SEQ1_12358WOPCT

Met Gly His His His His His His Gly Gly Val Ser Asp Val Pro Arg
1 5 10 15

Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp
20 25 30

Gln Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu
35 40 45

Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val Leu
50 55 60

Ser Ser Ala Gln Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile
65 70 75 80

Thr Val Tyr Ala Val Thr Tyr Gly Ile Glu Ser Ser Pro Ile Ser Ile
85 90 95

Asn Tyr Arg Thr Pro Gly Gly
100

<210> 128
<211> 103
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 128

Met Gly His His His His His His Gly Gly Val Ser Asp Val Pro Arg
1 5 10 15

Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp
20 25 30

Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu
35 40 45

Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val Leu
50 55 60

Ser Ser Ala Glu Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile
65 70 75 80

Thr Val Tyr Ala Val Thr Tyr Gly Ile Asp Ser Ser Pro Ile Ser Ile
85 90 95

Asn Tyr Arg Thr Pro Gly Gly
100

<210> 129
<211> 105

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin

<400> 129

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
 1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val His Pro Tyr Arg
 20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
 35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Ser Ala Glu Ile Ser Gly Leu
 50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
 65 70 75 80

Ile Asp Ser Pro Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
 85 90 95

Pro Ser Gln His His His His His His
 100 105

<210> 130
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin

<400> 130

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Asn Val His Tyr Asp Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Asp Gly Val His Ser Ser Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 131
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 131

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Leu Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 132
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 132

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Asp Ala Pro Ala Val Thr Val Glu Glu Tyr Tyr Ile Gly Tyr Tyr
35 40 45

Val Glu Phe Glu Pro Ser Ser Tyr Gln Trp Phe Thr Val Pro Gly Ser
50 55 60

20160414_SEQ1_12358WOPCT

Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Glu Tyr Ser
65 70 75 80

Ile Tyr Val Asn Ala Val Thr Gly Met Gly Met Gln Pro Glu Met Ser
85 90 95

Leu Pro Ile Ser Ile Asn Tyr Arg Thr Glu Gly Ser
100 105

<210> 133
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 133

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Tyr Asp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Val Asp Ser Asp Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 134
<211> 108
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 134

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

20160414_SEQ1_12358WOPCT

Trp Asp Ala Pro Ala Val Thr Val Glu Gln Tyr Tyr Ile Ala Tyr Tyr
35 40 45

Asp Glu Lys Glu Pro Ser Ser Tyr Gln Tyr Phe Arg Val Pro Gly Ser
50 55 60

Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Glu Tyr Ala
65 70 75 80

Ile Phe Val Asn Ala Val Thr Arg Ser Gly Val Leu Pro Glu Phe Ser
85 90 95

Leu Pro Ile Ser Ile Asn Tyr Arg Thr Glu Gly Ser
100 105

<210> 135
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 135

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Lys Tyr Asn Val Asn Ala Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Val His Ser Ser Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 136
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

20160414_SEQ1_12358WOPCT

<400> 136

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

<210> 137

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Adnectin

<400> 137

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

20160414_SEQ1_12358WOPCT

<210> 138
 <211> 108
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 138

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
 1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp His Tyr Pro Phe Glu Gly Tyr Val
 20 25 30

Thr Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser His Val
 35 40 45

Gln Glu Phe Thr Val Pro Val Gly Tyr Thr Thr Ala Thr Ile Ser Gly
 50 55 60

Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Ser
 65 70 75 80

Ser Lys Gly Tyr Val Tyr Phe Pro Ile Ser Ile Asn Tyr Arg Thr Glu
 85 90 95

Ile Asp Lys Pro Ser Gln His His His His His His
 100 105

<210> 139
 <211> 109
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 139

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
 1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Asp Pro Glu Ala Ala Val Arg
 20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
 35 40 45

Glu Phe Thr Val Pro Ile Asn Asp Leu His Ser Tyr Leu Ser Gly Leu
 50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Glu Ala
 65 70 75 80

20160414_SEQ1_12358WOPCT

Thr Val Met Tyr Val Leu Asp Glu Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

Glu Ile Asp Lys Pro Ser Gln His His His His His His
100 105

<210> 140
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 140

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Asp Leu Leu Glu Asp Met Ser Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Thr Asp Ala Tyr Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Gln Asp
65 70 75 80

Ser His Val Ile Glu Leu Ser Tyr Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

Glu Ile Asp Lys Pro Ser Gln His His His His His His
100 105

<210> 141
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 141

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Gln Tyr Lys Val His Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

20160414_SEQ1_12358WOPCT

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Ile Gln Ser Pro Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 142
<211> 105
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 142

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Arg Tyr Arg Val His Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Asp Gly
65 70 75 80

Val Gln Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 143
<211> 105
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 143

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

20160414_SEQ1_12358WOPCT

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Asn Val Asn Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Ile Glu Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 144
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 144

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Gln Tyr Lys Val His Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Val Glu Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 145
<211> 105
<212> PRT
<213> Artificial Sequence

<220>

<223> Adnectin

<400> 145

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
 1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val His Pro Tyr Arg
 20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
 35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
 50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
 65 70 75 80

Val Asn Ser Leu Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
 85 90 95

Pro Ser Gln His His His His His His
 100 105

<210> 146

<211> 105

<212> PRT

<213> Artificial sequence

<220>

<223> Adnectin

<400> 146

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
 1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val His Pro Tyr Arg
 20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
 35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
 50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
 65 70 75 80

Ile Asp Ser Pro Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
 85 90 95

Pro Ser Gln His His His His His His
 100 105

<210> 147
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin
 <400> 147

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

<210> 148
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin
 <400> 148

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

20160414_SEQ1_12358WOPCT

Ile Asp Ser Pro Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 149
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 149

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Lys Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 150
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 150

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Asn Val Asn Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

20160414_SEQ1_12358WOPCT

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Val Glu Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 151
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 151

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val His Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Ile Asp Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 152
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 152

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

20160414_SEQ1_12358WOPCT

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Asn Val Asn Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Val Gln Ser Asp Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 153
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 153

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Gln Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 154
<211> 105
<212> PRT
<213> Artificial sequence

20160414_SEQ1_12358WOPCT

<220>

<223> Adnectin

<400> 154

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Asn Val Asn Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Val Asn Ser Leu Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 155

<211> 105

<212> PRT

<213> Artificial sequence

<220>

<223> Adnectin

<400> 155

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Gln Tyr Lys Val His Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr His Gly
65 70 75 80

Val His Ser Ala Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

20160414_SEQ1_12358WOPCT

Pro Ser Gln His His His His His His
100 105

<210> 156
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 156

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val Asn Pro Trp Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Ile Glu Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 157
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 157

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Gln Tyr Lys Val His Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

20160414_SEQ1_12358WOPCT

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Val Asn Ser Ile Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 158
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 158

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val His Tyr Asp Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Ile Gln Ser Pro Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 159
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 159

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

20160414_SEQ1_12358WOPCT

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Pro Tyr Arg Thr Pro Gly Gly
100

<210> 160
<211> 105
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 160

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val Asp Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Val Glu Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 161
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 161

20160414_SEQ1_12358WOPCT

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Ser Ala Glu Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 162
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 162

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Ser Ala Gln Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 163
<211> 104

20160414_SEQ1_12358WOPCT

<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 163

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Tyr Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Gln Tyr Lys Val His Pro Tyr Arg Trp Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Val Asn Ser Ile Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 164
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 164

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Lys Tyr Gln Val His Ala Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Val Tyr Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 165
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 165

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asn Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Val His Ser Ser Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 166
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 166

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Lys Tyr Asn Leu His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

20160414_SEQ1_12358WOPCT

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Ile Ile Ser Glu Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 167
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 167

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Arg Val Asn Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Val Gln Ser Pro Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 168
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 168

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

20160414_SEQ1_12358WOPCT

Trp Glu Tyr Lys Val Asn Ala Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Val Leu Ser Pro Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 169
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 169

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Asn Val Asn Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Arg Gly Val Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 170
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

20160414_SEQ1_12358WOPCT

<400> 170

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

<210> 171

<211> 104

<212> PRT

<213> Artificial Sequence

<220>

<223> Adnectin

<400> 171

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

20160414_SEQ1_12358WOPCT

<210> 172
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 172

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val Asp Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Ile Asp Ser Ser Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
 100

<210> 173
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 173

Met Gly His His His His His His Gly Gly Ala Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val Asn Pro Trp Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

20160414_SEQ1_12358WOPCT

Ile Thr Val Tyr Ala Val Thr Tyr Gly Val His Ser Ser Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 174
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 174

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Asn Val Asn Ala Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Ile Ile Ser Glu Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 175
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 175

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Tyr Asp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

20160414_SEQ1_12358WOPCT

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Val Gln Ser Thr Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 176
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 176

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His His Asp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Ile Glu Ser Ser Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 177
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 177

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

20160414_SEQ1_12358WOPCT

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Pro Tyr Arg Thr Pro Gly Gly
100

<210> 178
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<220>
<221> misc_feature
<222> (90)..(90)
<223> xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (93)..(93)
<223> xaa can be any naturally occurring amino acid

<400> 178

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Xaa Asp Ser Xaa Pro Ile Ser
85 90 95

20160414_SEQ1_12358WOPCT

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 179
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 179

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Arg Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 180
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 180

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

20160414_SEQ1_12358WOPCT

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Lys Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 181
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 181

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp His Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 182
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 182

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

20160414_SEQ1_12358WOPCT

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Gln Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 183
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 183

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Ile Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 184
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 184

20160414_SEQ1_12358WOPCT

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Val Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 185
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<220>
<221> misc_feature
<222> (90)..(90)
<223> xaa can be any naturally occurring amino acid

<400> 185

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Xaa Asp Ser Ala Pro Ile Ser
85 90 95

20160414_SEQ1_12358WOPCT

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 186
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 186

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Glu Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 187
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 187

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Lys Val Pro Ser Val
50 55 60

20160414_SEQ1_12358WOPCT

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 188
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 188

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Leu Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 189
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 189

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

20160414_SEQ1_12358WOPCT

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Lys Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 190
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 190

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Ala Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 191
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 191

20160414_SEQ1_12358WOPCT

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Thr Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 192
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 192

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Thr Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 193

20160414_SEQ1_12358WOPCT

<211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin

<400> 193

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Lys Asp Ser Ala Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
 100

<210> 194
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin

<400> 194

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Pro Ser Ala Pro Ile Ser
 Page 96

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 195
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 195

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Gln Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 196
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 196

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val

50

20160414_SEQ1_12358WOPCT
55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Val Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 197
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 197

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Gly Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 198
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 198

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser

20

25

30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
 85 90 95

Ile Gln Tyr Arg Thr Glu Ile Asp
 100

<210> 199
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 199

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Gln Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
 100

<210> 200
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

20160414_SEQ1_12358WOPCT

<400> 200

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

<210> 201

<211> 104

<212> PRT

<213> Artificial sequence

<220>

<223> Adnectin

<400> 201

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

20160414_SEQ1_12358WOPCT

<210> 202
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin

<400> 202

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Lys Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
 100

<210> 203
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin

<400> 203

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

20160414_SEQ1_12358WOPCT

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Gly Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 204
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 204

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Arg
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 205
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 205

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Asp Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

20160414_SEQ1_12358WOPCT

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 206
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 206

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Lys Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 207
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 207

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

20160414_SEQ1_12358WOPCT

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Trp
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 208
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 208

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Thr Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 209
<211> 104
<212> PRT
<213> Artificial Sequence

<220>

<223> Adnectin

<400> 209

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Thr Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 210

<211> 104

<212> PRT

<213> Artificial Sequence

<220>

<223> Adnectin

<400> 210

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ser Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp

100

<210> 211
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 211

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Arg Gly Asp Asp Ser Ala Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
 100

<210> 212
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 212

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 Page 106

65

70

75

80

Ile Thr Val Tyr Ala Val Thr His Gly Asp Asp Ser Ala Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
 100

<210> 213
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 213

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Trp Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
 100

<210> 214
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 214

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly

35

40

45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr His Gly Asp Asp Ser Ala Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
 100

<210> 215
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 215

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Lys Tyr Asp Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
 100

<210> 216
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 216

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 Page 108

20160414_SEQ1_12358WOPCT

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

<210> 217
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin

<400> 217

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

<210> 218
 <211> 104
 <212> PRT

<213> Artificial sequence

<220>

<223> Adnectin

<400> 218

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Arg Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 219

<211> 104

<212> PRT

<213> Artificial sequence

<220>

<223> Adnectin

<400> 219

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Lys Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

20160414_SEQ1_12358WOPCT

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 220
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 220

Met Gly His His His His His His Cys Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Ala His Asn Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 221
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 221

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Tyr Gly Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

20160414_SEQ1_12358WOPCT

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 222
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 222

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asp His Gln Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 223
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 223

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

20160414_SEQ1_12358WOPCT

Trp Glu Tyr Lys Val Asp Tyr Arg Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 224
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 224

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Ala Tyr Asp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 225
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 225

20160414_SEQ1_12358WOPCT

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Thr Ser Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 226
<211> 103
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 226

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Ile His Glu
35 40 45

Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val Leu
50 55 60

Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile
65 70 75 80

Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser Ile
85 90 95

Asn Tyr Arg Thr Glu Ile Asp
100

<210> 227

20160414_SEQ1_12358WOPCT

<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 227

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

<210> 228
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 228

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

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 229
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 229

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asp His Arg Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 230
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 230

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val His Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
Page 116

50 20160414_SEQ1_12358WOPCT 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Val Asp Ser Asp Pro Ile Ser Ile Asn Tyr Arg Thr Asp Asp Lys Pro
85 90 95

Ser Gln His His His His His His
100

<210> 231
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 231

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val His Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Val Asn Ser Ile Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 232
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 232

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val Asn Ala Tyr Arg
Page 117

20

25

30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
 35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
 50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
 65 70 75 80

Ile Glu Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
 85 90 95

Pro Ser Gln His His His His His His
 100 105

<210> 233
 <211> 105
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 233

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
 1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val His Pro Tyr Arg
 20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
 35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
 50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Asp Gly
 65 70 75 80

Val Gln Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
 85 90 95

Pro Ser Gln His His His His His His
 100 105

<210> 234
 <211> 105
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

20160414_SEQ1_12358WOPCT

<400> 234

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

<210> 235

<211> 105

<212> PRT

<213> Artificial sequence

<220>

<223> Adnectin

<400> 235

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

20160414_SEQ1_12358WOPCT

<210> 236
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin

<400> 236

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
 1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val Asn Pro Trp Arg
 20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
 35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
 50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Arg Gly
 65 70 75 80

Val Asp Ser Ala Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
 85 90 95

Pro Ser Gln His His His His His His
 100 105

<210> 237
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin

<220>
 <221> misc_feature
 <222> (31)..(31)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (84)..(84)
 <223> Xaa can be any naturally occurring amino acid

<400> 237

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
 1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val His Pro Xaa Arg
 20 25 30

20160414_SEQ1_12358WOPCT

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Val Asx Ser Xaa Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 238
<211> 105
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 238

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val Asn Pro Trp Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Ile Gln Ser Pro Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 239
<211> 105
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 239

20160414_SEQ1_12358WOPCT

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Gln Tyr Lys Val His Pro Tyr Arg
20 25 30

Trp Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Val Asn Ser Ile Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 240
<211> 105
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 240

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val Ser Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Val Asn Ser Ile Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 241
<211> 105

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin

<400> 241

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
 1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val Asn Pro Trp Arg
 20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
 35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
 50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
 65 70 75 80

Val Asn Ser Leu Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
 85 90 95

Pro Ser Gln His His His His His His
 100 105

<210> 242
 <211> 105
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin

<400> 242

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
 1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Asn Val His Tyr Asp Arg
 20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
 35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
 50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
 65 70 75 80

Val Asp Ser Asp Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
 85 90 95

20160414_SEQ1_12358WOPCT

Pro Ser Gln His His His His His His
100 105

<210> 243
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 243

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val Asn Pro Trp Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Val Asp Ser Asp Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 244
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 244

Met Gly Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15

Pro Thr Ser Leu Leu Ile Ser Trp Glu Tyr Lys Val Asp Pro Tyr Arg
20 25 30

Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45

Glu Phe Thr Val Pro Ser Val Leu Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60

20160414_SEQ1_12358WOPCT

Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Tyr Gly
65 70 75 80

Val Asp Ser Asp Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys
85 90 95

Pro Ser Gln His His His His His His
100 105

<210> 245
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 245

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Lys Tyr Gln Val His Ala Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Asn Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Ile Ile Ser Glu Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 246
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 246

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

20160414_SEQ1_12358WOPCT

Trp Glu Tyr Lys Val Asn Tyr Asn Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Glu Gly Val Gln Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 247
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 247

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Pro Gly Gly
100

<210> 248
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

20160414_SEQ1_12358WOPCT

<400> 248

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

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<210> 249

<211> 104

<212> PRT

<213> Artificial Sequence

<220>

<223> Adnectin

<400> 249

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

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20160414_SEQ1_12358WOPCT

<210> 250
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 250

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Ser Ala Lys Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
 100

<210> 251
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 251

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Asn Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

20160414_SEQ1_12358WOPCT

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 252
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 252

Met Gly His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Ala His Arg Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 253
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 253

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asp Ala Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

20160414_SEQ1_12358WOPCT

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 254
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin
<400> 254

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asp Ser Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 255
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin
<400> 255

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

20160414_SEQ1_12358WOPCT

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 256
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 256

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Ala Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 257
<211> 104
<212> PRT
<213> Artificial Sequence

<220>

<223> Adnectin

<400> 257

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Asn Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 258

<211> 104

<212> PRT

<213> Artificial sequence

<220>

<223> Adnectin

<400> 258

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Ser Ala Thr Ile Arg Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

20160414_SEQ1_12358WOPCT

<210> 259
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin
 <400> 259

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

<210> 260
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin
 <400> 260

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

20160414_SEQ1_12358WOPCT

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 261
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 261

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Ala Pro Trp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 262
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 262

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asp Gly Trp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

20160414_SEQ1_12358WOPCT

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 263
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 263

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asp Thr Trp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 264
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<220>
<221> misc_feature
<222> (28)..(28)

<223> xaa can be any naturally occurring amino acid

<400> 264

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Xaa Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 265

<211> 104

<212> PRT

<213> Artificial sequence

<220>

<223> Adnectin

<400> 265

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Ala Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

20160414_SEQ1_12358WOPCT

<210> 266
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin
 <400> 266

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

<210> 267
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin
 <400> 267

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

20160414_SEQ1_12358WOPCT

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 268
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 268

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Asn Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 269
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 269

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

20160414_SEQ1_12358WOPCT

Glu Thr Gly Gly Asn Ser Pro Val Gln Ala Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 270
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 270

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Ala Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 271
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 271

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

20160414_SEQ1_12358WOPCT

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asp Gly Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 272
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 272

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asp Thr Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 273
<211> 104
<212> PRT
<213> Artificial sequence

20160414_SEQ1_12358WOPCT

<220>

<223> Adnectin

<400> 273

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Glu Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 274

<211> 104

<212> PRT

<213> Artificial Sequence

<220>

<223> Adnectin

<400> 274

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Arg Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 275
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 275

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Ser Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Ala Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 276
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 276

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

20160414_SEQ1_12358WOPCT

Leu Ser Thr Ala Thr Ile Arg Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 277
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 277

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Asp Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 278
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 278

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

20160414_SEQ1_12358WOPCT

Trp Glu Tyr Lys Val Ala Arg Trp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 279
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 279

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asp His Gln Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 280
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 280

20160414_SEQ1_12358WOPCT

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asp Tyr Gly Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 281
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 281

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Lys Tyr Gly Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 282
<211> 104

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin

<400> 282

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Ser Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
 100

<210> 283
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin

<400> 283

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Asp Gly Asp Asp Ser Ala Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 284
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 284

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Ser Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 285
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 285

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

20160414_SEQ1_12358WOPCT

Leu Ser Ser Ala Thr Leu Arg Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 286
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 286

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Ala Ala Trp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 287
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 287

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

20160414_SEQ1_12358WOPCT

Trp Glu Tyr Lys Val Ala Thr Trp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 288
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 288

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Thr Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asp Tyr His Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 289
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

20160414_SEQ1_12358WOPCT

<400> 289

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

<210> 290

<211> 104

<212> PRT

<213> Artificial Sequence

<220>

<223> Adnectin

<220>

<221> misc_feature

<222> (36)..(36)

<223> Xaa can be any naturally occurring amino acid

<400> 290

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

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 291
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 291

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Gly Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 292
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 292

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

20160414_SEQ1_12358WOPCT

Leu Ser Thr Ala Thr Ile His Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 293
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 293

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Leu Arg Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 294
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 294

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

20160414_SEQ1_12358WOPCT

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Ser Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 295
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 295

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Ala Ala Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 296
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

20160414_SEQ1_12358WOPCT

<400> 296

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

<210> 297

<211> 104

<212> PRT

<213> Artificial Sequence

<220>

<223> Adnectin

<400> 297

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

20160414_SEQ1_12358WOPCT

<210> 298
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 298

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val Asp Tyr Gln Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
 100

<210> 299
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 299

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Lys Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

20160414_SEQ1_12358WOPCT

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 300
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<220>
<221> misc_feature
<222> (36)..(36)
<223> xaa can be any naturally occurring amino acid

<400> 300

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Xaa Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 301
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 301

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

20160414_SEQ1_12358WOPCT

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr His Gly Asp Asp Phe Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Met Leu Ile
100 105

<210> 302
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 302

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Ser Ala Thr Ile Asn Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 303
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

20160414_SEQ1_12358WOPCT

<400> 303

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

<210> 304

<211> 104

<212> PRT

<213> Artificial Sequence

<220>

<223> Adnectin

<400> 304

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

20160414_SEQ1_12358WOPCT

<210> 305
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 305

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val Asp Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
 100

<210> 306
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 306

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val Asp Tyr Arg Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

20160414_SEQ1_12358WOPCT

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 307
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 307

Met Gly His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Gly Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 308
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 308

Met Gly His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asn Ala Trp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

20160414_SEQ1_12358WOPCT

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 309
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 309

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr His Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 310
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 310

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

20160414_SEQ1_12358WOPCT

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Asn Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 311
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 311

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Glu Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 312
<211> 104
<212> PRT
<213> Artificial Sequence

<220>

<223> Adnectin

<400> 312

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Leu Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 313

<211> 104

<212> PRT

<213> Artificial sequence

<220>

<223> Adnectin

<400> 313

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Ala His Gly Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

20160414_SEQ1_12358WOPCT

<210> 314
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin
 <400> 314

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

<210> 315
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin
 <400> 315

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

20160414_SEQ1_12358WOPCT

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 316
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 316

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Ala Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 317
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 317

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asn Ala Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

20160414_SEQ1_12358WOPCT

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 318
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 318

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asn Gly Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 319
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 319

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

20160414_SEQ1_12358WOPCT

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Ser His Gly Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 320
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 320

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Thr Thr Trp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 321
<211> 104
<212> PRT
<213> Artificial sequence

20160414_SEQ1_12358WOPCT

<220>

<223> Adnectin

<400> 321

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Ser Ala Glx Leu Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 322

<211> 104

<212> PRT

<213> Artificial sequence

<220>

<223> Adnectin

<400> 322

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Thr Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 323
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 323

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Gln Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 324
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 324

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

20160414_SEQ1_12358WOPCT

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Asn Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 325
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 325

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asn His Asp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 326
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 326

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

20160414_SEQ1_12358WOPCT

Trp Glu Tyr Lys Val Ser His Arg Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 327
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 327

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Thr Tyr Glu Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 328
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<220>

20160414_SEQ1_12358WOPCT

<221> misc_feature

<222> (70)..(71)

<223> Xaa can be any naturally occurring amino acid

<400> 328

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Ser Ala Thr Xaa Xaa Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 329

<211> 104

<212> PRT

<213> Artificial sequence

<220>

<223> Adnectin

<400> 329

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Val Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 330
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 330

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Pro Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 331
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<220>
<221> misc_feature
<222> (93)..(93)
<223> Xaa can be any naturally occurring amino acid

<400> 331

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

20160414_SEQ1_12358WOPCT

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Xaa Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 332
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 332

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asn Arg Trp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 333
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 333

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

20160414_SEQ1_12358WOPCT

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Ser Pro Trp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 334
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 334

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Thr Tyr Arg Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 335
<211> 104
<212> PRT
<213> Artificial sequence

20160414_SEQ1_12358WOPCT

<220>

<223> Adnectin

<400> 335

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Glu Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 336

<211> 104

<212> PRT

<213> Artificial sequence

<220>

<223> Adnectin

<400> 336

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Asp Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 337
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 337

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Tyr Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 338
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 338

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asn Arg Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

20160414_SEQ1_12358WOPCT

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 339
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 339

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Ser Arg Trp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 340
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<220>
<221> misc_feature
<222> (38)..(39)
<223> Xaa can be any naturally occurring amino acid

<400> 340

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

20160414_SEQ1_12358WOPCT

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Xaa Xaa Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 341
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 341

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Ser Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 342
<211> 104
<212> PRT
<213> Artificial sequence

20160414_SEQ1_12358WOPCT

<220>

<223> Adnectin

<400> 342

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Ile Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 343

<211> 104

<212> PRT

<213> Artificial sequence

<220>

<223> Adnectin

<400> 343

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp His Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 344
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 344

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Glu Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 345
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 345

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

20160414_SEQ1_12358WOPCT

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Arg Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 346
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 346

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Gln Tyr Arg Thr Glu Ile Asp
100

<210> 347
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 347

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

20160414_SEQ1_12358WOPCT

Trp Glu Tyr Lys Val Asn Tyr Arg Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 348
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 348

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Ser Thr Trp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 349
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 349

20160414_SEQ1_12358WOPCT

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Tyr Ala Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 350
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 350

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Thr Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 351
<211> 104

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin

<400> 351

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Ala Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Lys Asp Ser Ala Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
 100

<210> 352
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin

<400> 352

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Leu Ser Ala Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 353
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 353

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Gly Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 354
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin
<400> 354

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Ser Ala Trp Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

20160414_SEQ1_12358WOPCT

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 355
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 355

Met Gly His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Ser Thr Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 356
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 356

Met Gly His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

20160414_SEQ1_12358WOPCT

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Glu Leu Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 357
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 357

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Leu Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 358
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

20160414_SEQ1_12358WOPCT

<400> 358

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

<210> 359

<211> 104

<212> PRT

<213> Artificial Sequence

<220>

<223> Adnectin

<400> 359

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

20160414_SEQ1_12358WOPCT

<210> 360
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 360

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val Thr Gly Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
 85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
 100

<210> 361
 <211> 104
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Adnectin

<400> 361

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Glu Tyr Lys Val Tyr His Gly Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80

20160414_SEQ1_12358WOPCT

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 362
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 362

Met Gly His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Lys Leu Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 363
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 363

Met Gly His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

20160414_SEQ1_12358WOPCT

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asn Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 364
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 364

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Pro Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 365
<211> 104
<212> PRT
<213> Artificial sequence

<220>
<223> Adnectin

<400> 365

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

20160414_SEQ1_12358WOPCT

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Ser Gly Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 366
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 366

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Tyr His Asn Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 367
<211> 104
<212> PRT
<213> Artificial Sequence

<220>

<223> Adnectin

<400> 367

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Ser Ala Gln Leu Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 368

<211> 104

<212> PRT

<213> Artificial sequence

<220>

<223> Adnectin

<400> 368

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Thr Asp Ser Ala Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

20160414_SEQ1_12358WOPCT

<210> 369
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin
 <400> 369

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

<210> 370
 <211> 104
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Adnectin
 <400> 370

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

20160414_SEQ1_12358WOPCT

Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Lys Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 371
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Adnectin

<400> 371

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Ile Asp Ser Thr Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp
100

<210> 372
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> HIV fusion peptide inhibitor

<400> 372

Ser Glu Tyr Glu Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu
1 5 10 15

Gln Gln Glu Lys Asn Glu Ala Ala Leu Arg Glu Leu Tyr Lys Trp Ala
20 25 30

Leu

20160414_SEQ1_12358WOPCT

<210> 373
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HIV fusion peptide inhibitor
 <400> 373

Ser Glu Tyr Glu Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu
 1 5 10 15

Gln Gln Glu Lys Asn Glu Ala Ala Leu Arg Glu Leu Trp Lys Trp Ala
 20 25 30

Ser

<210> 374
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HIV fusion peptide inhibitor
 <400> 374

Thr Ile Ala Glu Tyr Ala Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala
 1 5 10 15

Gln Glu Gln Gln Glu Lys Asn Glu Ala Ala Leu Arg Glu Leu Tyr Lys
 20 25 30

Trp Ala Ser
 35

<210> 375
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HIV fusion peptide inhibitor
 <400> 375

Ala Arg Ile Glu Glu Tyr Ala Ala Arg Ile Glu Ala Leu Ile Arg Ala
 1 5 10 15

Ala Gln Glu Gln Gln Glu Lys Asn Glu Ala Ala Leu Arg Glu Leu Tyr
 20 25 30

Lys Trp Ala Ser
 35

20160414_SEQ1_12358WOPCT

<210> 376

<211> 33

<212> PRT

<213> Artificial sequence

<220>

<223> HIV fusion peptide inhibitor

<400> 376

Ser Glu Tyr Glu Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu
1 5 10 15

Gln Gln Glu Lys Asn Glu Ala Ala Leu Arg Glu Leu Tyr Lys Trp Ala
20 25 30

Ser

<210> 377

<211> 36

<212> PRT

<213> Artificial sequence

<220>

<223> HIV fusion peptide inhibitor

<400> 377

Thr Glu Tyr Glu Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu
1 5 10 15

Gln Gln Glu Lys Asn Glu Ala Ala Leu Arg Glu Leu Lys Glu Trp Ala
20 25 30

Ser Ile Trp Asn
35

<210> 378

<211> 41

<212> PRT

<213> Artificial sequence

<220>

<223> HIV fusion peptide inhibitor

<400> 378

Ser Glu Tyr Glu Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu
1 5 10 15

Gln Gln Glu Lys Asn Glu Ala Ala Leu Arg Glu Leu Asp Lys Trp Thr
20 25 30

Gly Val Trp Gly Asn Tyr Glu Lys Val
35 40

<210> 379

<211> 29

<212> PRT
 <213> Artificial Sequence

<220>
 <223> HIV fusion peptide inhibitor

<400> 379

Ser Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys
 1 5 10 15

Asn Glu Ala Ala Leu Arg Glu Leu Phe Lys Trp Ala Ser
 20 25

<210> 380
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HIV fusion peptide inhibitor

<400> 380

Ser Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Gln Lys
 1 5 10 15

Asn Glu Ala Ala Leu Arg Glu Leu Asp Lys Trp Ala Ser
 20 25

<210> 381
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HIV fusion peptide inhibitor

<400> 381

Ser Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys
 1 5 10 15

Asn Glu Ala Ala Leu Arg Glu Leu Tyr Lys Trp Ala Ser
 20 25

<210> 382
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HIV fusion peptide inhibitor

<400> 382

Ser Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys
 1 5 10 15

Asn Glu Ala Ala Leu Arg Glu Leu Leu Lys Trp Ala Ser
 20 25

<210> 383
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HIV fusion peptide inhibitor
 <400> 383

Ser Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys
 1 5 10 15

Asn Glu Ala Ala Leu Arg Glu Leu Gln Lys Trp Ala Ser
 20 25

<210> 384
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HIV fusion peptide inhibitor
 <400> 384

Ser Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys
 1 5 10 15

Asn Glu Ala Ala Leu Arg Glu Leu Asp Lys Trp Ala Ser
 20 25

<210> 385
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HIV fusion peptide inhibitor
 <400> 385

Ala Ile Ala Glu Tyr Ala Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala
 1 5 10 15

Gln Glu Gln Gln Glu Lys Asn Glu Ala Ala Leu Arg Glu Leu Asp Lys
 20 25 30

Trp Ala Ser
 35

<210> 386
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HIV fusion peptide inhibitor

20160414_SEQ1_12358WOPCT

<400> 386

Thr Glu Tyr Glu Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu
1 5 10 15

Gln Gln Glu Lys Asn Glu Ala Ala Leu Arg Glu Leu Asp Lys
20 25 30

<210> 387

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> HIV fusion peptide inhibitor

<400> 387

Ser Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys
1 5 10 15

Asn Glu Ala Ala Leu Arg Glu Leu Tyr Lys Trp Thr Ser
20 25

<210> 388

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> HIV fusion peptide inhibitor

<400> 388

Ser Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys
1 5 10 15

Asn Glu Ala Ala Leu Arg Glu Leu Tyr Lys Trp Ala Ser Leu Trp Ile
20 25 30

<210> 389

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> HIV fusion peptide inhibitor

<400> 389

Ser Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys
1 5 10 15

Asn Glu Ala Ala Leu Arg Glu Leu Tyr Lys Trp Ala Ser Arg Trp Asn
20 25 30

<210> 390

<211> 32

<212> PRT

<213> Artificial Sequence

20160414_SEQ1_12358WOPCT

<220>

<223> HIV fusion peptide inhibitor

<400> 390

Ser Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys
1 5 10 15

Asn Glu Ala Ala Leu Arg Glu Leu Tyr Lys Trp Ala Ser Ser Trp Asn
20 25 30

<210> 391

<211> 29

<212> PRT

<213> Artificial sequence

<220>

<223> HIV fusion peptide inhibitor

<400> 391

Ser Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys
1 5 10 15

Asn Glu Ala Ala Leu Arg Glu Leu Tyr Lys Trp Gly Ser
20 25

<210> 392

<211> 26

<212> PRT

<213> Artificial sequence

<220>

<223> HIV fusion peptide inhibitor

<400> 392

Ser Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys
1 5 10 15

Asn Glu Ala Ala Leu Arg Glu Leu Asp Lys
20 25

<210> 393

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> Linker (GS)7

<400> 393

Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser
1 5 10

<210> 394

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> Linker G(GS)6

<400> 394

Gly Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser
1 5 10

<210> 395

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker G(GS)7G

<400> 395

Gly Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser Gly
1 5 10 15

<210> 396

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker (GSE)5

<400> 396

Gly Ser Glu Gly Ser Glu Gly Ser Glu Gly Ser Glu Gly Ser Glu
1 5 10 15

<210> 397

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker GGSEGGSE

<400> 397

Gly Gly Ser Glu Gly Gly Ser Glu
1 5

<210> 398

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker (GS)4

<400> 398

Gly Ser Gly Ser Gly Ser Gly Ser
1 5

<210> 399

<211> 35

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker (GGGGS)7

<400> 399

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
 1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
 20 25 30

Gly Gly Ser
 35

<210> 400
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker (GGGGS)5

<400> 400

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
 1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser
 20 25

<210> 401
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker (GGGGS)4

<400> 401

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
 1 5 10 15

Gly Gly Gly Ser
 20

<210> 402
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker (GGGGS)3G

<400> 402

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
 1 5 10 15

<210> 403
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker (GP)3G

<400> 403

Gly Pro Gly Pro Gly Pro Gly
 1 5

<210> 404
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker (GP)5G

<400> 404

Gly Pro Gly Pro Gly Pro Gly Pro Gly Pro Gly
 1 5 10

<210> 405
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker (PA)3

<400> 405

Pro Ala Pro Ala Pro Ala
 1 5

<210> 406
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Linker (PA)6

<400> 406

Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala
 1 5 10

<210> 407
 <211> 18
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Linker (PA)9

<400> 407

20160414_SEQ1_12358WOPCT

Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala
1 5 10 15

Pro Ala

<210> 408
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker ESPEPETPEDE

<400> 408

Glu Ser Pro Glu Pro Glu Thr Pro Glu Asp Glu
1 5 10

<210> 409
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker (ESPEPETPED)2E

<400> 409

Glu Ser Pro Glu Pro Glu Thr Pro Glu Asp Glu Ser Pro Glu Pro Glu
1 5 10 15

Thr Pro Glu Asp Glu
20

<210> 410
<211> 159
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin

<400> 410

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asn Ala Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

20160414_SEQ1_12358WOPCT

Ile Thr Val Tyr Ala Val Thr Tyr Gly Val Asp Ser Asp Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly Ser Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ala Arg Ile Glu Glu
115 120 125

Tyr Ala Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln
130 135 140

Glu Lys Asn Glu Ala Ala Leu Arg Glu Leu Tyr Lys Trp Ala Ser
145 150 155

<210> 411
<211> 158
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin
<400> 411

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asn Ala Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Val Asp Ser Asp Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly Ser Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Thr Ile Ala Glu Tyr
115 120 125

Ala Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu
130 135 140

20160414_SEQ1_12358WOPCT

Lys Asn Glu Ala Ala Leu Arg Glu Leu Tyr Lys Trp Ala Ser
145 150 155

<210> 412
<211> 156
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin
<400> 412

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asn Ala Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Val Asp Ser Asp Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly Ser Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Tyr Glu Ala
115 120 125

Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys Asn
130 135 140

Glu Ala Ala Leu Arg Glu Leu Tyr Lys Trp Ala Ser
145 150 155

<210> 413
<211> 157
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin
<400> 413

Met Gly His His His His His His Gly Val Ser Asp Val Pro Arg Asp
1 5 10 15

20160414_SEQ1_12358WOPCT

Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Lys
20 25 30

Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr
35 40 45

Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val Leu Ser
50 55 60

Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr
65 70 75 80

Val Tyr Ala Val Thr Tyr Gly Val Asn Ser Leu Pro Ile Ser Ile Asn
85 90 95

Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
100 105 110

Gly Gly Gly Gly Ser Gly Gly Gly Gly Thr Glu Tyr Glu Ala Arg Ile
115 120 125

Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys Asn Glu Ala
130 135 140

Ala Leu Arg Glu Leu Lys Glu Trp Ala Ser Ile Trp Asn
145 150 155

<210> 414
<211> 168
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin

<400> 414

Met Gly His His His His His His Thr Ser Gly Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Asp Ala Pro Ala Val Thr Val Gly Trp Tyr His Ile Gly Tyr Asn
35 40 45

Val Glu Gly Glu Pro Ala Ser Tyr Gln Tyr Phe Arg Val Pro Gly Ser
50 55 60

Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Glu Tyr Met
65 70 75 80

Ile Phe Val Asn Ala Val Thr Gly Ser Gly Ala Arg Glu Glu Phe Ser
85 90 95

20160414_SEQ1_12358WOPCT

Leu Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly
100 105 110

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser
115 120 125

Glu Tyr Glu Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln
130 135 140

Gln Glu Lys Asn Glu Ala Ala Leu Arg Glu Leu Asp Lys Trp Thr Gly
145 150 155 160

Val Trp Gly Asn Tyr Glu Lys Val
165

<210> 415
<211> 154
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin
<400> 415

Met Gly His His His His His His Gly Val Ser Asp Val Pro Arg Asp
1 5 10 15

Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp
20 25 30

Ala Pro Ala Val Thr Val Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr
35 40 45

Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Gly Ser Lys Ser
50 55 60

Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr
65 70 75 80

Val Tyr Ala Val Thr Gly Arg Gly Glu Ser Pro Ala Ser Ser Lys Pro
85 90 95

Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly Ser Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Arg Ile
115 120 125

Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys Asn Glu Ala
130 135 140

Ala Leu Arg Glu Leu Phe Lys Trp Ala Ser
 145 150

<210> 416
 <211> 154
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin
 <400> 416

Met Gly His His His His His His Gly Val Ser Asp Val Pro Arg Asp
 1 5 10 15

Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp
 20 25 30

Ala Pro Ala Val Thr Val Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr
 35 40 45

Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Gly Ser Lys Ser
 50 55 60

Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr
 65 70 75 80

Val Tyr Ala Val Thr Gly Arg Gly Glu Ser Pro Ala Ser Ser Lys Pro
 85 90 95

Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly Ser Gly
 100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Arg Ile
 115 120 125

Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Gln Lys Asn Glu Ala
 130 135 140

Ala Leu Arg Glu Leu Asp Lys Trp Ala Ser
 145 150

<210> 417
 <211> 154
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin
 <400> 417

Met Gly His His His His His His Gly Val Ser Asp Val Pro Arg Asp
 1 5 10 15

20160414_SEQ1_12358WOPCT

Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp
20 25 30

Ala Pro Ala Val Thr Val Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr
35 40 45

Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Gly Ser Lys Ser
50 55 60

Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr
65 70 75 80

Val Tyr Ala Val Thr Gly Arg Gly Glu Ser Pro Ala Ser Ser Lys Pro
85 90 95

Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly Ser Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Arg Ile
115 120 125

Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys Asn Glu Ala
130 135 140

Ala Leu Arg Glu Leu Tyr Lys Trp Ala Ser
145 150

<210> 418
<211> 154
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin
<400> 418

Met Gly His His His His His His Gly Val Ser Asp Val Pro Arg Asp
1 5 10 15

Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp
20 25 30

Ala Pro Ala Val Thr Val Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr
35 40 45

Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Gly Ser Lys Ser
50 55 60

Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr
65 70 75 80

Val Tyr Ala Val Thr Gly Arg Gly Glu Ser Pro Ala Ser Ser Lys Pro
85 90 95

Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly Ser Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Arg Ile
115 120 125

Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys Asn Glu Ala
130 135 140

Ala Leu Arg Glu Leu Leu Lys Trp Ala Ser
145 150

<210> 419

<211> 154

<212> PRT

<213> Artificial Sequence

<220>

<223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin

<400> 419

Met Gly His His His His His His Gly Val Ser Asp Val Pro Arg Asp
1 5 10 15

Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp
20 25 30

Ala Pro Ala Val Thr Val Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr
35 40 45

Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Gly Ser Lys Ser
50 55 60

Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr
65 70 75 80

Val Tyr Ala Val Thr Gly Arg Gly Glu Ser Pro Ala Ser Ser Lys Pro
85 90 95

Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly Ser Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Arg Ile
115 120 125

Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys Asn Glu Ala
130 135 140

Ala Leu Arg Glu Leu Gln Lys Trp Ala Ser
145 150

20160414_SEQ1_12358WOPCT

<210> 420
 <211> 152
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin
 <400> 420
 Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
 1 5 10
 Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30
 Trp Glu Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
 35 40 45
 Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
 50 55 60
 Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 65 70 75 80
 Ile Thr Val Tyr Ala Val Thr Tyr Gly Asp Asp Ser Ala Pro Ile Ser
 85 90 95
 Ile Asn Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly Ser Gly Gly Gly
 100 105 110
 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Arg Ile Glu Ala
 115 120 125
 Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys Asn Glu Ala Ala Leu
 130 135 140
 Arg Glu Leu Asp Lys Trp Ala Ser
 145 150

<210> 421
 <211> 158
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin
 <400> 421
 Met Gly His His His His His His Gly Val Ser Asp Val Pro Arg Asp
 1 5 10
 Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Val
 20 25 30

20160414_SEQ1_12358WOPCT

Ala Gly Ala Glu Asp Tyr Gln Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr
35 40 45

Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro His Asp Leu Val
50 55 60

Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr
65 70 75 80

Val Tyr Ala Val Thr Asp Met Met His Val Glu Tyr Thr Glu His Pro
85 90 95

Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly Ser Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Ala Ile Ala Glu Tyr
115 120 125

Ala Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu
130 135 140

Lys Asn Glu Ala Ala Leu Arg Glu Leu Asp Lys Trp Ala Ser
145 150 155

<210> 422

<211> 151

<212> PRT

<213> Artificial sequence

<220>

<223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin

<400> 422

Met Gly His His His His His His Gly Val Ser Asp Val Pro Arg Asp
1 5 10 15

Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Lys
20 25 30

Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr
35 40 45

Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val Leu Ser
50 55 60

Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr
65 70 75 80

Val Tyr Ala Val Thr Tyr Gly Val Asn Ser Leu Pro Ile Ser Ile Asn
85 90 95

Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
100 105 110

20160414_SEQ1_12358WOPCT

Gly Gly Gly Gly Ser Gly Gly Gly Gly Thr Glu Tyr Glu Ala Arg Ile
115 120 125

Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys Asn Glu Ala
130 135 140

Ala Leu Arg Glu Leu Asp Lys
145 150

<210> 423
<211> 154
<212> PRT
<213> Artificial sequence

<220>
<223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin
<400> 423

Met Gly His His His His His His Gly Val Ser Asp Val Pro Arg Asp
1 5 10 15

Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp
20 25 30

Ala Pro Ala Val Thr Val Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr
35 40 45

Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Gly Ser Lys Ser
50 55 60

Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr
65 70 75 80

Val Tyr Ala Val Thr Gly Arg Gly Glu Ser Pro Ala Ser Ser Lys Pro
85 90 95

Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly Ser Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Arg Ile
115 120 125

Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys Asn Glu Ala
130 135 140

Ala Leu Arg Glu Leu Tyr Lys Trp Thr Ser
145 150

<210> 424
<211> 159
<212> PRT
<213> Artificial sequence

20160414_SEQ1_12358WOPCT

<220>

<223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin

<400> 424

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asn Ala Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Val Asp Ser Asp Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly Ser Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ala Arg Ile Glu Glu
115 120 125

Tyr Ala Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln
130 135 140

Glu Lys Asn Glu Ala Ala Leu Arg Glu Leu Tyr Lys Trp Ala Ser
145 150 155

<210> 425

<211> 158

<212> PRT

<213> Artificial sequence

<220>

<223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin

<400> 425

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asn Ala Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

20160414_SEQ1_12358WOPCT

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Val Asp Ser Asp Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly Ser Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Thr Ile Ala Glu Tyr
115 120 125

Ala Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu
130 135 140

Lys Asn Glu Ala Ala Leu Arg Glu Leu Tyr Lys Trp Ala Ser
145 150 155

<210> 426

<211> 156

<212> PRT

<213> Artificial sequence

<220>

<223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin

<400> 426

Met Gly His His His His His His Gly Gly Ser Val Ser Asp Val Pro
1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
20 25 30

Trp Glu Tyr Lys Val Asn Ala Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly
35 40 45

Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val
50 55 60

Leu Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
65 70 75 80

Ile Thr Val Tyr Ala Val Thr Tyr Gly Val Asp Ser Asp Pro Ile Ser
85 90 95

Ile Asn Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly Ser Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Tyr Glu Ala
115 120 125

20160414_SEQ1_12358WOPCT

Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys Asn
130 135 140

Glu Ala Ala Leu Arg Glu Leu Tyr Lys Trp Ala Ser
145 150 155

<210> 427
<211> 157
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin
<400> 427

Met Gly His His His His His His Gly Val Ser Asp Val Pro Arg Asp
1 5 10 15

Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Lys
20 25 30

Tyr Lys Val His Pro Tyr Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr
35 40 45

Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Ser Val Leu Ser
50 55 60

Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr
65 70 75 80

Val Tyr Ala Val Thr Tyr Gly Val Asn Ser Leu Pro Ile Ser Ile Asn
85 90 95

Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
100 105 110

Gly Gly Gly Gly Ser Gly Gly Gly Gly Thr Glu Tyr Glu Ala Arg Ile
115 120 125

Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln Gln Glu Lys Asn Glu Ala
130 135 140

Ala Leu Arg Glu Leu Lys Glu Trp Ala Ser Ile Trp Asn
145 150 155

<210> 428
<211> 168
<212> PRT
<213> Artificial Sequence

<220>
<223> Anti-N17 Adnectin - HIV fusion peptide inhibitor Combinectin

20160414_SEQ1_12358WOPCT

<400> 428

Met Gly His His His His His His Thr Ser Gly Val Ser Asp Val Pro
 1 5 10 15

Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser
 20 25 30

Trp Asp Ala Pro Ala Val Thr Val Gly Trp Tyr His Ile Gly Tyr Asn
 35 40 45

Val Glu Gly Glu Pro Ala Ser Tyr Gln Tyr Phe Arg Val Pro Gly Ser
 50 55 60

Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Glu Tyr Met
 65 70 75 80

Ile Phe Val Asn Ala Val Thr Gly Ser Gly Ala Arg Glu Glu Phe Ser
 85 90 95

Leu Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Gly Gly Gly Gly
 100 105 110

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 115 120 125

Glu Tyr Glu Ala Arg Ile Glu Ala Leu Ile Arg Ala Ala Gln Glu Gln
 130 135 140

Gln Glu Lys Asn Glu Ala Ala Leu Arg Glu Leu Asp Lys Trp Thr Gly
 145 150 155 160

Val Trp Gly Asn Tyr Glu Lys Val
 165