

SEQUENCE LISTING

<110> Panicker, Sandip
Parry, Graham
Christopherson, Karen S
Byun, SangYoung

<120> Anti-Complement Factor BB Antibodies and Uses Thereof

<130> TNRX-900WO

<140> PCT/US17/25784

<141> 2017-04-03

<150> 62/317,897

<151> 2016-04-04

<160> 98

<170> PatentIn version 3.5

<210> 1

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 1

Gln Asp Val Gly Thr Ala

1 5

<210> 2

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 2

Trp Ala Ser

1

<210> 3

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 3

His Gln His Ser Ser Asn Pro Leu Thr
1 5

<210> 4

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 4

Gly Phe Thr Phe Ser Asn Tyr Ala
1 5

<210> 5

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 5

Ile Ser Asn Arg Gly Ser Tyr Thr
1 5

<210> 6

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 6

Ala Arg Glu Arg Pro Met Asp Tyr
1 5

<210> 7

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 7

Asp Ile Val Met Thr Gln Ser His Lys Phe Met Ser Thr Ser Val Gly
1 5 10 15

Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Thr Ala
20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
35 40 45

Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Asp Arg Phe Thr Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Asn Val Gln Ser
65 70 75 80

Glu Asp Leu Ala Val Tyr Phe Cys His Gln His Ser Ser Asn Pro Leu
85 90 95

Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
100 105

<210> 8

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 8

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

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
20 25 30

Ala Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
35 40 45

Ala Thr Ile Ser Asn Arg Gly Ser Tyr Thr Tyr Tyr Pro Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys
85 90 95

Ala Arg Glu Arg Pro Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr
100 105 110

Val Ser Ser
115

<210> 9
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 9

Lys Ser Leu Leu His Ser Asn Gly Ile Thr Tyr
1 5 10

<210> 10
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 10

Arg Met Ser
1

<210> 11
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 11

Ala Gln Met Leu Glu Arg Pro Trp Thr
1 5

<210> 12

<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 12

Gly Tyr Ser Phe Thr Asp Tyr Leu
1 5

<210> 13
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 13

Ile Asn Pro Tyr Asn Gly Asp Ala
1 5

<210> 14
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 14

Ala Arg Leu Glu Asn Asp Tyr Gly Phe Thr Tyr
1 5 10

<210> 15
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 15

Asp Ile Val Met Thr Gln Ala Ala Phe Ser Asn Pro Val Thr Leu Gly
1 5 10 15

Thr Ser Ala Ser Ile Ser Cys Ser Ser Ser Lys Ser Leu Leu His Ser
20 25 30

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

Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser Gly Val Pro
50 55 60

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Arg Ile
65 70 75 80

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Ala Gln Met
85 90 95

Leu Glu Arg Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 16

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 16

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

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr
20 25 30

Leu Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45

Gly Arg Ile Asn Pro Tyr Asn Gly Asp Ala Phe Tyr Asn Gln Arg Phe
50 55 60

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

Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Leu Tyr Tyr Cys
85 90 95

Ala Arg Leu Glu Asn Asp Tyr Gly Phe Thr Tyr Trp Gly Gln Gly Thr

100 105 110

Leu Val Thr Val Ser Ala
115

<210> 17
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 17

Gln Gly Ile Asn Asn Tyr
1 5

<210> 18
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 18

Tyr Thr Ser
1

<210> 19
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 19

Gln Gln His Ser Lys Leu Pro Trp Thr
1 5

<210> 20
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 20

Gly Phe Ser Leu Ser Thr Phe Gly Leu Gly
1 5 10

<210> 21

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 21

Ile Trp Trp Asn Asp Asp Lys
1 5

<210> 22

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 22

Val Gln Ile Pro Tyr Gly Ser Arg Asn Gly Phe Asp Tyr
1 5 10

<210> 23

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 23

Thr His Tyr Arg Ala Ser Ser Gly Ile Asn Ala Glu Tyr Met Gly Gly
1 5 10 15

Asp Arg Val Thr Ile Ser Cys Ser Ala Ser Gln Gly Ile Asn Asn Tyr
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys Leu Leu Ile
35 40 45

Tyr Tyr Thr Ser Ser Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly

50 55 60

Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile Ser Asn Leu Glu Pro
65 70 75 80

Glu Asp Val Ala Thr Tyr Tyr Cys Gln Gln His Ser Lys Leu Pro Trp
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 24

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 24

Gln Val Thr Leu Lys Glu Ser Gly Pro Gly Ile Leu Gln Pro Ser Gln
1 5 10 15

Thr Leu Ser Leu Thr Cys Ser Phe Ser Gly Phe Ser Leu Ser Thr Phe
20 25 30

Gly Leu Gly Val Gly Trp Ile Arg Gln Pro Ser Gly Lys Gly Leu Glu
35 40 45

Trp Leu Ala Ser Ile Trp Trp Asn Asp Asp Lys Tyr Tyr Asn Ser Asp
50 55 60

Leu Lys Arg Arg Pro Thr Ile Ser Arg Asp Thr Ser Asn Ser Gln Val
65 70 75 80

Phe Leu Lys Ile Ser Ser Val Asp Thr Ala Asp Thr Ala Thr Tyr Phe
85 90 95

Cys Val Gln Ile Pro Tyr Gly Ser Arg Asn Gly Phe Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Ser Leu Thr Val Ser Ser
115 120

<210> 25
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 25

Gln Asp Val Gly Ser Ala
1 5

<210> 26
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 26

Gln Gln Tyr Ser Ser Tyr Pro Tyr Thr
1 5

<210> 27
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 27

Gly Phe Thr Phe Ser Asn Phe Ala
1 5

<210> 28
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 28

Ile Ser Asn Gly Gly Gly Tyr Thr
1 5

<210> 29

<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 29

Ala Arg Ile Tyr Tyr Gly Ser Ser Tyr Glu Asp Trp Phe Ala Tyr
1 5 10 15

<210> 30
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 30

Asp Ile Val Met Thr Pro Ser His Lys Phe Met Ser Thr Ser Val Gly
1 5 10 15

Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Asp Val Gly Ser Ala
20 25 30

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

Phe Trp Ala Ser Thr Arg His Thr Gly Val Pro Asp Arg Phe Thr Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asn Val Gln Ser
65 70 75 80

Glu Asp Leu Ala Asp Tyr Phe Cys Gln Gln Tyr Ser Ser Tyr Pro Tyr
85 90 95

Thr Phe Gly Gly Gly Thr Arg Leu Glu Ile Lys
100 105

<210> 31
<211> 122
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 31

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

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Phe
20 25 30

Ala Met Ser Trp Val Arg Gln Thr Pro Ala Lys Arg Leu Glu Trp Val
35 40 45

Ala Thr Ile Ser Asn Gly Gly Gly Tyr Thr Tyr Tyr Pro Asp Ser Val
50 55 60

Gln Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Asn Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys
85 90 95

Ala Arg Ile Tyr Tyr Gly Ser Ser Tyr Glu Asp Trp Phe Ala Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ala
115 120

<210> 49

<211> 764

<212> PRT

<213> Homo sapiens

<400> 49

Met Gly Ser Asn Leu Ser Pro Gln Leu Cys Leu Met Pro Phe Ile Leu
1 5 10 15

Gly Leu Leu Ser Gly Gly Val Thr Thr Thr Pro Trp Ser Leu Ala Arg
20 25 30

Pro Gln Gly Ser Cys Ser Leu Glu Gly Val Glu Ile Lys Gly Gly Ser
35 40 45

Phe Arg Leu Leu Gln Glu Gly Gln Ala Leu Glu Tyr Val Cys Pro Ser
50 55 60

Gly Phe Tyr Pro Tyr Pro Val Gln Thr Arg Thr Cys Arg Ser Thr Gly
65 70 75 80

Ser Trp Ser Thr Leu Lys Thr Gln Asp Gln Lys Thr Val Arg Lys Ala
85 90 95

Glu Cys Arg Ala Ile His Cys Pro Arg Pro His Asp Phe Glu Asn Gly
100 105 110

Glu Tyr Trp Pro Arg Ser Pro Tyr Tyr Asn Val Ser Asp Glu Ile Ser
115 120 125

Phe His Cys Tyr Asp Gly Tyr Thr Leu Arg Gly Ser Ala Asn Arg Thr
130 135 140

Cys Gln Val Asn Gly Arg Trp Ser Gly Gln Thr Ala Ile Cys Asp Asn
145 150 155 160

Gly Ala Gly Tyr Cys Ser Asn Pro Gly Ile Pro Ile Gly Thr Arg Lys
165 170 175

Val Gly Ser Gln Tyr Arg Leu Glu Asp Ser Val Thr Tyr His Cys Ser
180 185 190

Arg Gly Leu Thr Leu Arg Gly Ser Gln Arg Arg Thr Cys Gln Glu Gly
195 200 205

Gly Ser Trp Ser Gly Thr Glu Pro Ser Cys Gln Asp Ser Phe Met Tyr
210 215 220

Asp Thr Pro Gln Glu Val Ala Glu Ala Phe Leu Ser Ser Leu Thr Glu
225 230 235 240

Thr Ile Glu Gly Val Asp Ala Glu Asp Gly His Gly Pro Gly Glu Gln
245 250 255

Gln Lys Arg Lys Ile Val Leu Asp Pro Ser Gly Ser Met Asn Ile Tyr
260 265 270

Leu Val Leu Asp Gly Ser Asp Ser Ile Gly Ala Ser Asn Phe Thr Gly
275 280 285

Ala Lys Lys Cys Leu Val Asn Leu Ile Glu Lys Val Ala Ser Tyr Gly
290 295 300

Val Lys Pro Arg Tyr Gly Leu Val Thr Tyr Ala Thr Tyr Pro Lys Ile
305 310 315 320

Trp Val Lys Val Ser Glu Ala Asp Ser Ser Asn Ala Asp Trp Val Thr
325 330 335

Lys Gln Leu Asn Glu Ile Asn Tyr Glu Asp His Lys Leu Lys Ser Gly
340 345 350

Thr Asn Thr Lys Lys Ala Leu Gln Ala Val Tyr Ser Met Met Ser Trp
355 360 365

Pro Asp Asp Val Pro Pro Glu Gly Trp Asn Arg Thr Arg His Val Ile
370 375 380

Ile Leu Met Thr Asp Gly Leu His Asn Met Gly Gly Asp Pro Ile Thr
385 390 395 400

Val Ile Asp Glu Ile Arg Asp Leu Leu Tyr Ile Gly Lys Asp Arg Lys
405 410 415

Asn Pro Arg Glu Asp Tyr Leu Asp Val Tyr Val Phe Gly Val Gly Pro
420 425 430

Leu Val Asn Gln Val Asn Ile Asn Ala Leu Ala Ser Lys Lys Asp Asn
435 440 445

Glu Gln His Val Phe Lys Val Lys Asp Met Glu Asn Leu Glu Asp Val
450 455 460

Phe Tyr Gln Met Ile Asp Glu Ser Gln Ser Leu Ser Leu Cys Gly Met
465 470 475 480

Val Trp Glu His Arg Lys Gly Thr Asp Tyr His Lys Gln Pro Trp Gln
485 490 495

Ala Lys Ile Ser Val Ile Arg Pro Ser Lys Gly His Glu Ser Cys Met
500 505 510

Gly Ala Val Val Ser Glu Tyr Phe Val Leu Thr Ala Ala His Cys Phe
515 520 525

Thr Val Asp Asp Lys Glu His Ser Ile Lys Val Ser Val Gly Gly Glu
530 535 540

Lys Arg Asp Leu Glu Ile Glu Val Val Leu Phe His Pro Asn Tyr Asn
545 550 555 560

Ile Asn Gly Lys Lys Glu Ala Gly Ile Pro Glu Phe Tyr Asp Tyr Asp
565 570 575

Val Ala Leu Ile Lys Leu Lys Asn Lys Leu Lys Tyr Gly Gln Thr Ile
580 585 590

Arg Pro Ile Cys Leu Pro Cys Thr Glu Gly Thr Thr Arg Ala Leu Arg
595 600 605

Leu Pro Pro Thr Thr Thr Cys Gln Gln Gln Lys Glu Glu Leu Leu Pro
610 615 620

Ala Gln Asp Ile Lys Ala Leu Phe Val Ser Glu Glu Glu Lys Lys Leu
625 630 635 640

Thr Arg Lys Glu Val Tyr Ile Lys Asn Gly Asp Lys Lys Gly Ser Cys
645 650 655

Glu Arg Asp Ala Gln Tyr Ala Pro Gly Tyr Asp Lys Val Lys Asp Ile
660 665 670

Ser Glu Val Val Thr Pro Arg Phe Leu Cys Thr Gly Gly Val Ser Pro
675 680 685

Tyr Ala Asp Pro Asn Thr Cys Arg Gly Asp Ser Gly Gly Pro Leu Ile
690 695 700

Val His Lys Arg Ser Arg Phe Ile Gln Val Gly Val Ile Ser Trp Gly
705 710 715 720

Val Val Asp Val Cys Lys Asn Gln Lys Arg Gln Lys Gln Val Pro Ala
725 730 735

His Ala Arg Asp Phe His Ile Asn Leu Phe Gln Val Leu Pro Trp Leu

740 745 750

Lys Glu Lys Leu Gln Asp Glu Asp Leu Gly Phe Leu
755 760

<210> 50
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 50

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 51
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 51

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
1 5 10

<210> 52
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 52

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
1 5 10 15

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
20 25 30

<210> 53
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 53

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 54
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 54

Arg Phe Thr Ile Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr Leu Gln
1 5 10 15

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
20 25 30

<210> 55
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 55

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

Ser Val Lys Val Ser Cys Lys Ala Ser
20 25

<210> 56
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 56

Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
1 5 10

<210> 57

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 57

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

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
20 25 30

<210> 58

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 58

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 59

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 59

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

Thr Leu Ser Leu Thr Cys Thr Val Ser
20 25

<210> 60
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 60

Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
1 5 10

<210> 61
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 61

Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu Lys
1 5 10 15

Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
20 25 30

<210> 62
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 62

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 63
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 63

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly

1 5 10 15

Asp Arg Val Thr Ile Thr Cys
20

<210> 64
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 64

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

<210> 65
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 65

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
20 25 30

<210> 66
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 66

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
1 5 10

<210> 67
<211> 23
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 67

Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

Glu Pro Ala Ser Ile Ser Cys
20

<210> 68

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 68

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

<210> 69

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 69

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
20 25 30

<210> 70

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 70

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys

1 5 10

<210> 71
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 71

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

Glu Arg Ala Thr Ile Asn Cys
20

<210> 72
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 72

Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 73
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 73

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Phe Ala Val Tyr Tyr Cys
20 25 30

<210> 74
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 74

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys

1 5 10

<210> 75

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<220>

<221> Misc_feature

<222> (1)..(5)

<223> This stretch of residues may be repeated

<400> 75

Gly Ser Gly Gly Ser

1 5

<210> 76

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<220>

<221> Misc_feature

<222> (1)..(4)

<223> This stretch of residues may be repeated.

<400> 76

Gly Gly Gly Ser

1

<210> 77

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 77

Gly Gly Ser Gly
1

<210> 78

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 78

Gly Gly Ser Gly Gly
1 5

<210> 79

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 79

Gly Ser Gly Ser Gly
1 5

<210> 80

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 80

Gly Ser Gly Gly Gly
1 5

<210> 81

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 81

Gly Gly Gly Ser Gly
1 5

<210> 82

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 82

Gly Ser Ser Ser Gly
1 5

<210> 83

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 83

Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
1 5

<210> 84

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 84

Asp Tyr Lys Asp Asp Asp Asp Lys
1 5

<210> 85

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 85

Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
1 5 10

<210> 86
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 86

His His His His His
1 5

<210> 87
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 87

His His His His His His
1 5

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

<220>
<223> Synthetic Sequence

<400> 88

Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
1 5 10

<210> 89
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 89

Trp Ser His Pro Gln Phe Glu Lys
1 5

<210> 90
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 90

Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
1 5

<210> 91
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 91

Arg Tyr Ile Arg Ser
1 5

<210> 92
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 92

Phe His His Thr
1

<210> 93
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 93

Trp Glu Ala Ala Ala Arg Glu Ala Cys Cys Arg Glu Cys Cys Ala Arg

1 5 10 15

Ala

<210> 94

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 94

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

Glu Glu Tyr

<210> 95

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 95

Cys Thr Phe Phe Tyr Gly Gly Ser Arg Gly Lys Arg Asn Asn Phe Lys
1 5 10 15

Thr Glu Glu Tyr
20

<210> 96

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 96

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

Glu Glu Tyr Cys
20

<210> 97
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 97

Thr Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser
1 5 10 15

<210> 98
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 98

Thr Phe Phe Tyr Gly Gly Cys Arg Gly Lys Arg Asn Asn Phe Lys Thr
1 5 10 15

Glu Glu Tyr