

SEQUENCE LISTING

<110> Oblique Therapeutics AB

<120> Multi-protease method

<130> 69.15.130484/01

<150> GB 1617002.9

<151> 2016-10-06

<160> 184

<170> PatentIn version 3.5

<210> 1

<211> 839

<212> PRT

<213> Homo sapiens

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Met Lys Lys Trp Ser Ser Thr Asp Leu Gly Ala Ala Ala Asp Pro Leu
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Gln Lys Asp Thr Cys Pro Asp Pro Leu Asp Gly Asp Pro Asn Ser Arg
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Pro Pro Pro Ala Lys Pro Gln Leu Ser Thr Ala Lys Ser Arg Thr Arg
35 40 45

Leu Phe Gly Lys Gly Asp Ser Glu Glu Ala Phe Pro Val Asp Cys Pro
50 55 60

His Glu Glu Gly Glu Leu Asp Ser Cys Pro Thr Ile Thr Val Ser Pro
65 70 75 80

Val Ile Thr Ile Gln Arg Pro Gly Asp Gly Pro Thr Gly Ala Arg Leu
85 90 95

Leu Ser Gln Asp Ser Val Ala Ala Ser Thr Glu Lys Thr Leu Arg Leu
100 105 110

Tyr Asp Arg Arg Ser Ile Phe Glu Ala Val Ala Gln Asn Asn Cys Gln
115 120 125

Asp Leu Glu Ser Leu Leu Leu Phe Leu Gln Lys Ser Lys Lys His Leu
130 135 140

Thr Asp Asn Glu Phe Lys Asp Pro Glu Thr Gly Lys Thr Cys Leu Leu
145 150 155 160

Lys Ala Met Leu Asn Leu His Asp Gly Gln Asn Thr Thr Ile Pro Leu
165 170 175

Leu Leu Glu Ile Ala Arg Gln Thr Asp Ser Leu Lys Glu Leu Val Asn
180 185 190

Ala Ser Tyr Thr Asp Ser Tyr Tyr Lys Gly Gln Thr Ala Leu His Ile
195 200 205

Ala Ile Glu Arg Arg Asn Met Ala Leu Val Thr Leu Leu Val Glu Asn
210 215 220

Gly Ala Asp Val Gln Ala Ala Ala His Gly Asp Phe Phe Lys Lys Thr
225 230 235 240

Lys Gly Arg Pro Gly Phe Tyr Phe Gly Glu Leu Pro Leu Ser Leu Ala
245 250 255

Ala Cys Thr Asn Gln Leu Gly Ile Val Lys Phe Leu Leu Gln Asn Ser
260 265 270

Trp Gln Thr Ala Asp Ile Ser Ala Arg Asp Ser Val Gly Asn Thr Val
275 280 285

Leu His Ala Leu Val Glu Val Ala Asp Asn Thr Ala Asp Asn Thr Lys
290 295 300

Phe Val Thr Ser Met Tyr Asn Glu Ile Leu Met Leu Gly Ala Lys Leu
305 310 315 320

His Pro Thr Leu Lys Leu Glu Glu Leu Thr Asn Lys Lys Gly Met Thr
325 330 335

Pro Leu Ala Leu Ala Ala Gly Thr Gly Lys Ile Gly Val Leu Ala Tyr
340 345 350

Ile Leu Gln Arg Glu Ile Gln Glu Pro Glu Cys Arg His Leu Ser Arg
355 360 365

Lys Phe Thr Glu Trp Ala Tyr Gly Pro Val His Ser Ser Leu Tyr Asp
370 375 380

Leu Ser Cys Ile Asp Thr Cys Glu Lys Asn Ser Val Leu Glu Val Ile
385 390 395 400

Ala Tyr Ser Ser Ser Glu Thr Pro Asn Arg His Asp Met Leu Leu Val
405 410 415

Glu Pro Leu Asn Arg Leu Leu Gln Asp Lys Trp Asp Arg Phe Val Lys
420 425 430

Arg Ile Phe Tyr Phe Asn Phe Leu Val Tyr Cys Leu Tyr Met Ile Ile
435 440 445

Phe Thr Met Ala Ala Tyr Tyr Arg Pro Val Asp Gly Leu Pro Pro Phe
450 455 460

Lys Met Glu Lys Thr Gly Asp Tyr Phe Arg Val Thr Gly Glu Ile Leu
465 470 475 480

Ser Val Leu Gly Gly Val Tyr Phe Phe Phe Arg Gly Ile Gln Tyr Phe
485 490 495

Leu Gln Arg Arg Pro Ser Met Lys Thr Leu Phe Val Asp Ser Tyr Ser
500 505 510

Glu Met Leu Phe Phe Leu Gln Ser Leu Phe Met Leu Ala Thr Val Val
515 520 525

Leu Tyr Phe Ser His Leu Lys Glu Tyr Val Ala Ser Met Val Phe Ser
530 535 540

Leu Ala Leu Gly Trp Thr Asn Met Leu Tyr Tyr Thr Arg Gly Phe Gln
545 550 555 560

Gln Met Gly Ile Tyr Ala Val Met Ile Glu Lys Met Ile Leu Arg Asp
565 570 575

Leu Cys Arg Phe Met Phe Val Tyr Ile Val Phe Leu Phe Gly Phe Ser
580 585 590

Thr Ala Val Val Thr Leu Ile Glu Asp Gly Lys Asn Asp Ser Leu Pro
595 600 605

Ser Glu Ser Thr Ser His Arg Trp Arg Gly Pro Ala Cys Arg Pro Pro
610 615 620

Asp Ser Ser Tyr Asn Ser Leu Tyr Ser Thr Cys Leu Glu Leu Phe Lys
625 630 635 640

Phe Thr Ile Gly Met Gly Asp Leu Glu Phe Thr Glu Asn Tyr Asp Phe
645 650 655

Lys Ala Val Phe Ile Ile Leu Leu Leu Ala Tyr Val Ile Leu Thr Tyr
660 665 670

Ile Leu Leu Leu Asn Met Leu Ile Ala Leu Met Gly Glu Thr Val Asn
675 680 685

Lys Ile Ala Gln Glu Ser Lys Asn Ile Trp Lys Leu Gln Arg Ala Ile
690 695 700

Thr Ile Leu Asp Thr Glu Lys Ser Phe Leu Lys Cys Met Arg Lys Ala
705 710 715 720

Phe Arg Ser Gly Lys Leu Leu Gln Val Gly Tyr Thr Pro Asp Gly Lys
725 730 735

Asp Asp Tyr Arg Trp Cys Phe Arg Val Asp Glu Val Asn Trp Thr Thr
740 745 750

Trp Asn Thr Asn Val Gly Ile Ile Asn Glu Asp Pro Gly Asn Cys Glu
755 760 765

Gly Val Lys Arg Thr Leu Ser Phe Ser Leu Arg Ser Ser Arg Val Ser
770 775 780

Gly Arg His Trp Lys Asn Phe Ala Leu Val Pro Leu Leu Arg Glu Ala
785 790 795 800

Ser Ala Arg Asp Arg Gln Ser Ala Gln Pro Glu Glu Val Tyr Leu Arg
805 810 815

Gln Phe Ser Gly Ser Leu Lys Pro Glu Asp Ala Glu Val Phe Lys Ser
820 825 830

Pro Ala Ala Ser Gly Glu Lys
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Leu Leu Ser Gln Asp Ser Val Ala Ala Ser Thr Glu Lys
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Pro Ala Ala Ser Gly Glu Lys
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Leu Tyr Asp Arg Arg Ser
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1				5					10	

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Asp Ala Glu Val Phe Lys Ser Pro Ala Ala Ser Gly Glu Lys
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Ser Gln Asp Ser Val Ala Ala Ser Thr Glu Lys Thr Leu
1 5 10

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Ser Gly Ser Leu Lys Pro Glu Asp Ala Glu Val Phe
1 5 10

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Val Ser Pro Val Ile Thr Ile Gln Arg Pro Gly Asp
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Val Ser Pro Val Ile Thr Ile Gln Arg Pro Gly Asp Gly Pro Thr Gly
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Ala

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

Leu Glu Ile Ala Arg
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<400> 31

Gln Thr Asp Ser Leu Lys Glu Leu Val Asn Ala Ser Tyr Thr Asp Ser
1 5 10 15

Tyr Tyr Lys

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Gly Gln Thr Ala Leu His Ile Ala Ile Glu Arg
1 5 10

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<400> 33

Asn Met Ala Leu Val Thr Leu Leu Val Glu Asn Gly Ala Asp Val Gln
1 5 10 15

Ala Ala Ala His Gly Asp Phe Phe Lys Lys
20 25

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

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Asp Ser Val Gly Asn Thr Val Leu His Ala Leu Val Glu Val Ala Asp
1 5 10 15

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

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Asp Arg Gln Ser Ala Gln Pro Glu Glu Val Tyr Leu Arg
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Gln Ser Ala Gln Pro Glu Glu Val Tyr Leu Arg
1 5 10

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

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Gln Phe Ser Gly Ser Leu Lys Pro Glu Asp Ala Glu Val Phe Lys Ser
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Pro Ala Ala Ser Gly Glu Lys
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Asp Gly Pro Thr Gly Ala Arg Leu Leu Ser Gln
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Asp Ser Val Ala Ala Ser Thr Glu Lys Thr Leu Arg Leu Tyr
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Thr

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Asp Ser Leu Lys Glu Leu Val Asn Ala Ser Tyr Thr
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Asp Ser Val Gly Asn Thr Val Leu His Ala Leu Val Glu Val Ala
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Asp Ala Glu Val Phe Lys Ser Pro Ala Ala Ser Gly Glu Lys
1 5 10

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Leu Ser Gln Asp Ser Val Ala Ala Ser Thr Glu Lys Thr Leu
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Ser Gln Asp Ser Val Ala Ala Ser Thr Glu Lys Thr Leu
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Ser Gln Asp Ser Val Ala Ala Ser Thr Glu Lys Thr Leu Arg Leu Tyr
1 5 10 15

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Asn Leu His Asp Gly Gln Asn Thr Thr Ile Pro Leu
1 5 10

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Leu Val Glu Asn Gly Ala Asp Val Gln Ala Ala Ala His Gly Asp Phe
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Phe

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Gln Thr Ala Asp Ile Ser Ala Arg Asp Ser Val Gly Asn Thr Val Leu
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His Ala Leu Val Glu Val Ala Asp Asn Thr Ala Asp Asn Thr Lys Phe
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Ala Ala Gly Thr Gly Lys Ile Gly Val Leu Ala Tyr
1 5 10

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Ser Gly Ser Leu Lys Pro Glu Asp Ala Glu Val Phe
1 5 10

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

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His Ala Leu Val Glu Val Ala Asp Asn Thr Ala Asp Asn Thr Lys Phe
1 5 10 15

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Val Glu Val Ala Asp Asn Thr Ala Asp Asn Thr Lys Phe
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Glu Val Ile Ala Tyr Ser Ser Ser Glu Thr Pro Asn Arg His Asp Met
1 5 10 15

Leu

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

Ala

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Ile Gln Arg Pro Gly Asp Gly Pro Thr Gly Ala Arg
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Arg Pro Gly Asp Gly Pro Thr Gly Ala Arg Leu Leu
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Leu Asn Leu His Asp Gly Gln Asn Thr Thr Ile Pro Leu Leu Leu
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Asp Thr Glu Lys Ser Phe Leu Lys
1 5

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Glu Asp Pro Gly Asn Cys Glu Gly Val Lys Arg
1 5 10

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Glu Asp Pro Gly Asn Cys Glu Gly Val Lys Arg Thr
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Glu Asp Pro Gly Asn Cys Glu Gly Val Lys Arg Thr Leu
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Ser Ala Arg Asp Arg Gln Ser Ala Gln Pro Glu Glu Val Tyr Leu Arg
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Asp Arg Gln Ser Ala Gln Pro Glu Glu Val Tyr Leu Arg
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Ser Ser Pro Ala Gly Gly Val Leu Gly Gly Gly Leu Gly Gly Gly Gly
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Gly Arg

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Phe Asp Gly Gly Val Glu Ala Ile Ala Thr Arg
1 5 10

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Glu Lys Asp Ile Leu Thr Ala Ile Ala Ala Asp Leu Cys Lys
1 5 10

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Phe Asp His Ile Phe Tyr Thr Gly Asn Thr Ala Val Gly Lys
1 5 10

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

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<400> 92

Asn Val Asp Glu Ala Ile Asn Phe Ile Asn Glu Arg
1 5 10

<210> 93
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide sequence

<400> 93

Gln Phe Tyr Asp Gln Ala Leu Gln Gln Ala Val Val Asp Asp Asp Ala
1 5 10 15

Asn Asn Ala Lys
20

<210> 94
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide sequence

<400> 94

Thr Phe His Glu Thr Leu Asp Cys Cys Gly Ser Ser Thr Leu
1 5 10

<210> 95
<211> 7
<212> PRT
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<220>
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<400> 95

Ile Val Leu Ser Tyr Val Arg
1 5

<210> 96
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
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<400> 96

Gly Ile Ser Gly Glu Lys Asp Val Ser Pro Asp Leu Ser Cys Ala Asp
1 5 10 15

Glu Ile Ser Glu Cys Tyr His Lys
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<210> 97
<211> 8
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<220>
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<400> 97

Glu Thr Leu Leu Glu Ile Gln Lys
1 5

<210> 98
<211> 11
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<400> 98

Gly Gln Met Gly Pro Thr Glu Gln Gly Pro Tyr
1 5 10

<210> 99

<211> 8

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<400> 99

Leu Cys Leu Leu Pro Leu Val Arg
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<400> 100

Ala Trp Asp Asp Phe Phe Pro Gly Ser Asp Arg
1 5 10

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<211> 19

<212> PRT

<213> Artificial Sequence

<220>

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<400> 101

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

Ile Asn Arg

<210> 102
<211> 12
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<400> 102

Asp Ala Leu Glu Gln Gln Glu Gly Ile Asn Arg
1 5 10

<210> 103
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<400> 103

Leu Thr Asp Tyr Ile Ser Lys
1 5

<210> 104
<211> 11
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<400> 104

Thr Val Leu Trp Gly Leu Gly Val Leu Ile Arg
1 5 10

<210> 105
<211> 12

<212> PRT
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<400> 105

Glu	Ala	Asp	Glu	Asp	Ala	Val	Gln	Phe	Ala	Asn	Arg
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<210> 106
<211> 15
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<220>
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<400> 106

Gln	Gly	Gly	Leu	Val	Asp	Leu	Leu	Trp	Asp	Gly	Gly	Leu	Lys	Arg
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<210> 107
<211> 10
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<400> 107

Val	Ile	Asp	Asn	Gly	Ser	Gly	Met	Cys	Lys
1				5					10

<210> 108
<211> 10
<212> PRT
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<220>
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<400> 108

Ala Gly Phe Ala Gly Asp Asp Ala Pro Arg
1 5 10

<210> 109
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 109

Ala Val Phe Pro Ser Ile Val Gly Arg
1 5

<210> 110
<211> 8
<212> PRT
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<220>
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<400> 110

Pro Ser Ile Val Gly Arg Pro Arg
1 5

<210> 111
<211> 11
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<220>
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<400> 111

Ile Trp His His Thr Phe Tyr Asn Glu Leu Arg
1 5 10

<210> 112
<211> 14
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<220>

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<400> 112

Thr Thr Gly Ile Val Met Asp Ser Gly Asp Gly Val Thr His
1 5 10

<210> 113

<211> 16

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<400> 113

Ser Tyr Glu Leu Pro Asp Gly Gln Val Ile Thr Ile Gly Asn Glu Arg
1 5 10 15

<210> 114

<211> 14

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<400> 114

Glu Leu Pro Asp Gly Gln Val Ile Thr Ile Gly Asn Glu Arg
1 5 10

<210> 115

<211> 16

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<400> 115

Ile Ser Lys Gln Glu Tyr Asp Glu Ser Gly Pro Ser Ile Val His Arg
1 5 10 15

<210> 116
<211> 12
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<213> Artificial Sequence

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<400> 116

Gln Glu Tyr Asp Glu Ser Gly Pro Ser Ile Val His
1 5 10

<210> 117
<211> 13
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<400> 117

Gln Glu Tyr Asp Glu Ser Gly Pro Ser Ile Val His Arg
1 5 10

<210> 118
<211> 13
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<400> 118

Ser Thr Pro Ala Ile Thr Leu Glu Ser Pro Asp Ile Lys
1 5 10

<210> 119
<211> 17
<212> PRT
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<220>

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<400> 119

Ser Thr Pro Ala Ile Thr Leu Glu Ser Pro Asp Ile Lys Tyr Pro Leu
1 5 10 15

Arg

<210> 120

<211> 12

<212> PRT

<213> Artificial Sequence

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<400> 120

Leu Ile Asp Arg Glu Ile Ile Ser His Asp Thr Arg
1 5 10

<210> 121

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

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<400> 121

Ile Asp Gly Asn Leu Val Val Arg Pro Tyr
1 5 10

<210> 122

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide sequence

<400> 122

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

Lys

<210> 123
<211> 9
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<220>
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<400> 123

Val Tyr Phe Lys Asp Thr His Pro Lys
1 5

<210> 124
<211> 11
<212> PRT
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<220>
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<400> 124

Gly Pro Ser Gly Leu Leu Val Tyr Gln Gly Lys
1 5 10

<210> 125
<211> 19
<212> PRT
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<220>
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<400> 125

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

Val Ile Arg

<210> 126
<211> 11
<212> PRT
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<220>
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<400> 126

Asp Ile Leu Leu Arg Pro Glu Leu Glu Glu Leu
1 5 10

<210> 127
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 127

Phe Lys Leu Trp Tyr Thr Leu Asp Arg
1 5

<210> 128
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<400> 128

Leu Trp Tyr Thr Leu Asp Arg
1 5

<210> 129
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<220>

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<400> 129

Ala	Pro	Glu	Ala	Trp	Asp	Tyr	Gly	Gln	Gly	Phe	Val	Asn	Glu	Glu	Met
1				5					10					15	

Ile Arg

<210> 130

<211> 7

<212> PRT

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<400> 130

Phe	Met	Leu	Asn	Glu	Val	Lys
1				5		

<210> 131

<211> 9

<212> PRT

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<400> 131

Thr	Cys	Leu	Leu	Ile	Val	Phe	Ser	Lys
1				5				

<210> 132

<211> 10

<212> PRT

<213> Artificial Sequence

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<400> 132

Asp Thr Ala Gly Gln Glu Asp Tyr Asp Arg
1 5 10

<210> 133

<211> 14

<212> PRT

<213> Artificial Sequence

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<400> 133

His Phe Cys Pro Asn Val Pro Ile Ile Leu Val Gly Asn Lys
1 5 10

<210> 134

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 134

His Phe Cys Pro Asn Val Pro Ile Ile Leu Val Gly Asn Lys Lys
1 5 10 15

<210> 135

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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<400> 135

Val Pro Ile Ile Leu Val Gly Asn Lys
1 5

<210> 136

<211> 8

<212> PRT
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<400> 136

Glu Val Phe Glu Met Ala Thr Arg
1 5

<210> 137
<211> 16
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<400> 137

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

<210> 138
<211> 12
<212> PRT
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<220>
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<400> 138

Thr Ala Ser Ile Ser Glu Thr Pro Val Asp Val Arg
1 5 10

<210> 139
<211> 12
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<213> Artificial Sequence

<220>
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<400> 139

Ser Asp Glu Glu Glu Pro Lys Asp Glu Ser Ala Arg
1 5 10

<210> 140
<211> 8
<212> PRT
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<400> 140

Glu Pro Leu Glu Ala Glu Ala Arg
1 5

<210> 141
<211> 7
<212> PRT
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<220>
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<400> 141

Glu Ser Ala Thr Pro Leu Arg
1 5

<210> 142
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide sequence

<400> 142

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

Val Leu

<210> 143
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide sequence

<400> 143

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

Gly Tyr

<210> 144
<211> 16
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<220>
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<400> 144

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

<210> 145
<211> 11
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<213> Artificial Sequence

<220>
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<400> 145

Leu	Ser	Glu	Leu	Asp	Asp	Arg	Ala	Asp	Ala	Leu
1				5					10	

<210> 146
<211> 18
<212> PRT
<213> Artificial Sequence

<220>

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<400> 146

Leu Ser Glu Leu Asp Asp Arg Ala Asp Ala Leu Gln Ala Gly Ala Ser
1 5 10 15

Gln Phe

<210> 147

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

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<400> 147

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

Tyr

<210> 148

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide sequence

<400> 148

Gln Ala Gln Leu Thr Gln Ala Gln Ala Glu Gln Pro Ala Gln Ser Ser
1 5 10 15

Thr Glu Met Glu Glu Phe
20

<210> 149
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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<400> 149

Ser Ser Ser Ala Glu Glu Ser Gly Gln Asp Val Leu Glu Asn Thr Phe
1 5 10 15

<210> 150
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
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<400> 150

Asn Ile Asp Val Ala Pro Gly Ala Pro Gln Glu Lys
1 5 10

<210> 151
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
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<400> 151

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

Val Leu

<210> 152
<211> 11
<212> PRT
<213> Artificial Sequence

<220>

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<400> 152

Ser Val Asn Ala Ile Thr Ala Asp Gly Ser Arg
1 5 10

<210> 153

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

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<400> 153

Val Phe Leu Asn Ala Lys Lys
1 5

<210> 154

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide sequence

<400> 154

Ala Tyr Pro Ser Asn Ile Thr Ser Glu Thr Gly Phe Arg
1 5 10

<210> 155

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

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<400> 155

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

Arg

<210> 156
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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<400> 156

Ile Met Ser Ser Asn Ser Ala Ser Ala Ala Asn Gly Asn Asp Ser Lys
1 5 10 15

<210> 157
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide sequence

<400> 157

Ile Met Ser Ser Asn Ser Ala Ser Ala Ala Asn Gly Asn Asp Ser Lys
1 5 10 15

Lys

<210> 158
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide sequence

<400> 158

Thr Ser Val Thr Pro Val Leu Arg
1 5

<210> 159
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide sequence

<400> 159

Ala Gln Ala Ala Leu Gln Ala Val Asn Ser Val Gln Ser Gly Asn Leu
1 5 10 15

<210> 160
<211> 13
<212> PRT
<213> Artificial Sequence

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<400> 160

Gln Ala Val Asn Ser Val Gln Ser Gly Asn Leu Ala Leu
1 5 10

<210> 161
<211> 7
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<220>
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<400> 161

Thr Ser Leu Asn Val Lys Tyr
1 5

<210> 162
<211> 14
<212> PRT
<213> Artificial Sequence

<220>

<223> peptide sequence

<400> 162

Gly Leu Ser Val Pro Asn Val His Gly Ala Leu Ala Pro Leu
1 5 10

<210> 163

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide sequence

<400> 163

Ala Ile Pro Ser Ala Ala Ala Ala Ala Ala Ala Gly Arg
1 5 10

<210> 164

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide sequence

<400> 164

Pro Ser Ala Ala Ala Ala Ala Ala Ala Gly Arg
1 5 10

<210> 165

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide sequence

<400> 165

Glu Gly Gln Glu Asp Gln Gly Leu Thr Lys Asp Tyr
1 5 10

<210> 166
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 166

Gln Phe Pro Gly Phe Pro Ala Ala Ala Tyr
1 5 10

<210> 167
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
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<400> 167

Gly Pro Val Ala Ala Ala Val Ala Ala Arg
1 5 10

<210> 168
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide sequence

<400> 168

Ser Leu Asp Pro Thr Asn Ala Glu Asn Thr Ala Ser Gln Ser Pro Arg
1 5 10 15

<210> 169
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
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<400> 169

Lys Thr Asn Glu Ala Gln Ala Ile Glu Thr Ala Arg
1 5 10

<210> 170

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

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<400> 170

Ser Ala Pro Asn Pro Asp Asp Pro Leu Ala Asn Asp Val Ala Glu Gln
1 5 10 15

Trp

<210> 171

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

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<400> 171

Lys Thr Asn Glu Ala Gln Ala Ile Glu Thr Ala Arg
1 5 10

<210> 172

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide sequence

<400> 172

Val Tyr Ser Lys Asp Gln Leu Gln Thr Phe
1 5 10

<210> 173
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<400> 173

Tyr Leu Pro Asp Gly Ser Thr Ile Glu Ile Gly Pro Ser Arg
1 5 10

<210> 174
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
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<400> 174

Leu Pro Asp Gly Ser Thr Ile Glu Ile Gly Pro Ser Arg
1 5 10

<210> 175
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
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<400> 175

Ser Leu Ala Thr Gln Asp Ser Asp Asn Pro Asp Leu Arg
1 5 10

<210> 176
<211> 19
<212> PRT
<213> Artificial Sequence

<220>

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<400> 176

Ser Asn Leu Gly Ser Thr Glu Thr Leu Glu Glu Met Pro Ser Gly Ser
1 5 10 15

Gln Asp Lys

<210> 177

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

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<400> 177

Leu Asn Gln Pro Val Pro Glu Leu Ser His Ala Ser Leu
1 5 10

<210> 178

<211> 18

<212> PRT

<213> Artificial Sequence

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<400> 178

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

Gln Lys

<210> 179

<211> 9

<212> PRT

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<220>

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<400> 179

Leu Gly Ala Glu Glu Ala Lys Thr Phe
1 5

<210> 180

<211> 14

<212> PRT

<213> Artificial Sequence

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<400> 180

Ile Leu Pro Ser Asp Tyr Asp His Ala Glu Ala Glu Ala Arg
1 5 10

<210> 181

<211> 14

<212> PRT

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<400> 181

Val Gly Ser Gln Ala Thr Asp Phe Gly Glu Ala Leu Val Arg
1 5 10

<210> 182

<211> 12

<212> PRT

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<220>

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<400> 182

Gly Asn Ser Thr Gly Gly Phe Asp Gly Gln Ala Arg
1 5 10

<210> 183
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<400> 183

Arg Gly Gln Leu Ala Ser Pro Ser Ser Gln Ser Ala Ala Ala Ser Ser
1 5 10 15

Leu Gly Pro Tyr
20

<210> 184
<211> 18
<212> PRT
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<220>
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<400> 184

Arg Gly Gln Pro Gly Asn Ala Tyr Asp Gly Ala Gly Gln Pro Ser Ala
1 5 10 15

Ala Tyr