

eolf-seql
SEQUENCE LISTING

<110> Oblique Therapeutics AB

<120> New methods for epitope selection

<130> 69.15.127827

<150> US 62/140,955

<151> 2015-03-31

<150> US 62/283,118

<151> 2015-08-21

<160> 81

<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
1 5 10 15

Gln Lys Asp Thr Cys Pro Asp Pro Leu Asp Gly Asp Pro Asn Ser Arg
20 25 30

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

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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

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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

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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

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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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Leu	Leu	Ser	Gln	Asp	Ser	Val	Ala	Ala	Ser	Thr	Glu	Lys	Thr	Leu	Arg
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<210> 4

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

Leu Tyr Asp Arg Arg Ser
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<210> 6

<211> 15

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<400> 6

Gly Arg His Trp Lys Asn Phe Ala Leu Val Pro Leu Leu Arg Glu
1 5 10 15

<210> 7

<211> 16

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<400> 7

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

<210> 8

<211> 11

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<400> 8

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

<210> 9

<211> 14

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<213> Artificial Sequence

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<400> 9

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

<210> 10

<211> 13

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

<210> 11

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<212> PRT

<213> Artificial Sequence

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<400> 11

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

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<210> 12
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<400> 12

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

<210> 13
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<400> 13

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

Ala

<210> 14
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Leu Asn Leu His Asp Gly Gln Asn Thr Thr Ile Pro Leu Leu Leu
1 5 10 15

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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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<400> 17

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
1 5 10

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Phe Ala Pro Gln Ile Arg Val Asn Leu Asn Tyr Arg Lys Gly Thr Gly
1 5 10 15

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Ala Ser Gln Pro Asp Pro Asn Arg Phe Asp Arg Asp Arg
1 5 10

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<210> 22
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<212> PRT
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<400> 22

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

<210> 23
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<212> PRT
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<400> 23

Cys Thr Asp Asp Tyr Tyr Arg Gly His
1 5

<210> 24
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<400> 24

Leu Val Glu Asn Gly Ala Asn Val His Ala Arg Ala Cys Gly Arg Phe
1 5 10 15

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Glu	Asp	Pro	Ser	Gly	Ala	Gly	Val	Pro	Arg
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<400> 26

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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<400> 28

Leu Leu Ser Gln Asp Ser Val Ala Ala Ser Thr Glu Lys

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1

5

10

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

<210> 30

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<400> 30

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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<210> 31

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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

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Tyr Tyr Lys

<210> 32
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<400> 32

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

<210> 33
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
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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

<210> 34
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<400> 34

Phe Leu Leu Gln Asn Ser Trp Gln Thr Ala Asp Ile Ser Ala Arg

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1	5	10	15

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<400> 35

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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<400> 36

Leu	His	Pro	Thr	Leu	Lys	Leu	Glu	Glu	Leu	Thr	Asn	Lys
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<210> 37
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<400> 37

Lys	Gly	Met	Thr	Pro	Leu	Ala	Leu	Ala	Ala	Gly	Thr	Gly	Lys
1				5					10				

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<210> 38
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<400> 38

Gly Met Thr Pro Leu Ala Leu Ala Ala Gly Thr Gly Lys
1 5 10

<210> 39
<211> 10
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<400> 39

Ile Gly Val Leu Ala Tyr Ile Leu Gln Arg
1 5 10

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<400> 40

Ala Ile Thr Ile Leu Asp Thr Glu Lys
1 5

<210> 41
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Thr Leu Ser Phe Ser Leu Arg
1 5

<210> 42

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<400> 42

Asn Phe Ala Leu Val Pro Leu Leu Arg
1 5

<210> 43

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<400> 43

Glu Ala Ser Ala Arg Asp Arg Gln Ser Ala Gln Pro Glu Glu Val Tyr
1 5 10 15

Leu Arg

<210> 44

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<400> 44

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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<211> 15

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<400> 46

Gln	Phe	Ser	Gly	Ser	Leu	Lys	Pro	Glu	Asp	Ala	Glu	Val	Phe	Lys
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<212> PRT

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<400> 47

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

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Pro Ala Ala Ser Gly Glu Lys
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<400> 48

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

<210> 49
<211> 14
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<400> 49

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

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<400> 50

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

Thr

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<400> 51

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

<210> 52
<211> 15
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<400> 52

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

<210> 53
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<400> 53

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

<210> 54
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<400> 54

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
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<400> 57

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

<210> 58
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<400> 58

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

Phe

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<400> 59

Gln Thr Ala Asp Ile Ser Ala Arg Asp Ser Val Gly Asn Thr Val Leu
1 5 10 15

<210> 60
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<400> 60

His Ala Leu Val Glu Val Ala Asp Asn Thr Ala Asp Asn Thr Lys Phe

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1	5	10	15

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<400> 61

Ala	Ala	Gly	Thr	Gly	Lys	Ile	Gly	Val	Leu	Ala	Tyr
1				5					10		

<210> 62
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<400> 62

Ser	Gly	Ser	Leu	Lys	Pro	Glu	Asp	Ala	Glu	Val	Phe
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<400> 63

Phe	Gly	Lys	Gly	Asp	Ser	Glu	Glu	Ala	Phe
1				5					10

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<400> 64

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

<210> 65

<211> 16

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<400> 65

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

<210> 66

<211> 15

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<400> 66

Val	Glu	Asn	Gly	Ala	Asp	Val	Gln	Ala	Ala	Ala	His	Gly	Asp	Phe
1				5				10						15

<210> 67

<211> 15

<212> PRT

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<400> 67

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Val	Glu	Asn	Gly	Ala	Asp	Val	Gln	Ala	Ala	Ala	His	Gly	Asp	Phe
1				5				10						15

<210> 68
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<400> 68

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

<210> 69
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<400> 69

Val	Glu	Val	Ala	Asp	Asn	Thr	Ala	Asp	Asn	Thr	Lys	Phe
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<400> 70

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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<211> 17
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<213> Artificial Sequence

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<400> 71

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

Ala

<210> 72
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<400> 72

Ile Gln Arg Pro Gly Asp Gly Pro Thr Gly Ala Arg
1 5 10

<210> 73
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<213> Artificial Sequence

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<400> 73

Arg Pro Gly Asp Gly Pro Thr Gly Ala Arg Leu Leu
1 5 10

eolf-seql

<210> 74
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<400> 74

Leu Asn Leu His Asp Gly Gln Asn Thr Thr Ile Pro Leu Leu Leu
1 5 10 15

<210> 75
<211> 8
<212> PRT
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<400> 75

Asp Thr Glu Lys Ser Phe Leu Lys
1 5

<210> 76
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<400> 76

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

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<400> 77

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

<210> 78

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<400> 78

Glu Asp Pro Gly Asn Cys Glu Gly Val Lys Arg Thr Leu
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<210> 79

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

<210> 80

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<400> 80

Asp Arg Gln Ser Ala Gln Pro Glu Glu Val Tyr Leu Arg

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1	5	10

<210> 81
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<400> 81

Gln	Ser	Ala	Gln	Pro	Glu	Glu	Val	Tyr	Leu	Arg
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