SEQUENCE LISTING

<110> California Institute of Technology
Gradinaru, Viviana
Kumar, Sripriya
Deverman, Benjamin

<120> VIRUS COMPOSITIONS WITH ENHANCED SPECIFICITY IN THE BRAIN

<130> CAPS-004/01WO 35847/9

<140> PCT/US20/27708
<141> 2020-04-10

<150> 62/832,826
<151> 2019-04-11

<160> 15197

<170> PatentIn version 3.5

<210> 1
<211> 736
<212> PRT
<213> Artificial Sequence

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<223> Synthetic Construct

<400> 1

Met Ala Ala Asp Gly Tyr Leu Pro Asp Trp Leu Glu Asp Asn Leu Ser
1 5 10 15

Glu Gly Ile Arg Glu Trp Trp Ala Leu Lys Pro Gly Ala Pro Gln Pro
20 25 30

Lys Ala Asn Gln Gln His Gln Asp Asn Ala Arg Gly Leu Val Leu Pro
35 40 45

Gly Tyr Lys Tyr Leu Gly Pro Gly Asn Gly Leu Asp Lys Gly Glu Pro
50 55 60

Val Asn Ala Ala Asp Ala Ala Ala Leu Glu His Asp Lys Ala Tyr Asp
65 70 75 80

Gln Gln Leu Lys Ala Gly Asp Asn Pro Tyr Leu Lys Tyr Asn His Ala
85 90 95

```
Asp Ala Glu Phe Gln Glu Arg Leu Lys Glu Asp Thr Ser Phe Gly Gly
            100                 105                 110

Asn Leu Gly Arg Ala Val Phe Gln Ala Lys Lys Arg Leu Leu Glu Pro
        115                 120                 125

Leu Gly Leu Val Glu Glu Ala Ala Lys Thr Ala Pro Gly Lys Lys Arg
    130                 135                 140

Pro Val Glu Gln Ser Pro Gln Glu Pro Asp Ser Ser Ala Gly Ile Gly
145                 150                 155                 160

Lys Ser Gly Ala Gln Pro Ala Lys Lys Arg Leu Asn Phe Gly Gln Thr
                165                 170                 175

Gly Asp Thr Glu Ser Val Pro Asp Pro Gln Pro Ile Gly Glu Pro Pro
            180                 185                 190

Ala Ala Pro Ser Gly Val Gly Ser Leu Thr Met Ala Ser Gly Gly Gly
        195                 200                 205

Ala Pro Val Ala Asp Asn Asn Glu Gly Ala Asp Gly Val Gly Ser Ser
    210                 215                 220

Ser Gly Asn Trp His Cys Asp Ser Gln Trp Leu Gly Asp Arg Val Ile
225                 230                 235                 240

Thr Thr Ser Thr Arg Thr Trp Ala Leu Pro Thr Tyr Asn Asn His Leu
                245                 250                 255

Tyr Lys Gln Ile Ser Asn Ser Thr Ser Gly Gly Ser Ser Asn Asp Asn
            260                 265                 270

Ala Tyr Phe Gly Tyr Ser Thr Pro Trp Gly Tyr Phe Asp Phe Asn Arg
        275                 280                 285

Phe His Cys His Phe Ser Pro Arg Asp Trp Gln Arg Leu Ile Asn Asn
    290                 295                 300
```

```
Asn Trp Gly Phe Arg Pro Lys Arg Leu Asn Phe Lys Leu Phe Asn Ile
305                 310                 315                 320

Gln Val Lys Glu Val Thr Asp Asn Asn Gly Val Lys Thr Ile Ala Asn
                325                 330                 335

Asn Leu Thr Ser Thr Val Gln Val Phe Thr Asp Ser Asp Tyr Gln Leu
            340                 345                 350

Pro Tyr Val Leu Gly Ser Ala His Glu Gly Cys Leu Pro Pro Phe Pro
        355                 360                 365

Ala Asp Val Phe Met Ile Pro Gln Tyr Gly Tyr Leu Thr Leu Asn Asp
    370                 375                 380

Gly Ser Gln Ala Val Gly Arg Ser Ser Phe Tyr Cys Leu Glu Tyr Phe
385                 390                 395                 400

Pro Ser Gln Met Leu Arg Thr Gly Asn Asn Phe Gln Phe Ser Tyr Glu
                405                 410                 415

Phe Glu Asn Val Pro Phe His Ser Ser Tyr Ala His Ser Gln Ser Leu
            420                 425                 430

Asp Arg Leu Met Asn Pro Leu Ile Asp Gln Tyr Leu Tyr Tyr Leu Ser
        435                 440                 445

Lys Thr Ile Asn Gly Ser Gly Gln Asn Gln Gln Thr Leu Lys Phe Ser
    450                 455                 460

Val Ala Gly Pro Ser Asn Met Ala Val Gln Gly Arg Asn Tyr Ile Pro
465                 470                 475                 480

Gly Pro Ser Tyr Arg Gln Gln Arg Val Ser Thr Thr Val Thr Gln Asn
                485                 490                 495

Asn Asn Ser Glu Phe Ala Trp Pro Gly Ala Ser Ser Trp Ala Leu Asn
            500                 505                 510
```

```
Gly Arg Asn Ser Leu Met Asn Pro Gly Pro Ala Met Ala Ser His Lys
        515                 520                 525

Glu Gly Glu Asp Arg Phe Phe Pro Leu Ser Gly Ser Leu Ile Phe Gly
    530                 535                 540

Lys Gln Gly Thr Gly Arg Asp Asn Val Asp Ala Asp Lys Val Met Ile
545                 550                 555                 560

Thr Asn Glu Glu Glu Ile Lys Thr Thr Asn Pro Val Ala Thr Glu Ser
                565                 570                 575

Tyr Gly Gln Val Ala Thr Asn His Gln Ser Ala Gln Ala Gln Ala Gln
            580                 585                 590

Thr Gly Trp Val Gln Asn Gln Gly Ile Leu Pro Gly Met Val Trp Gln
        595                 600                 605

Asp Arg Asp Val Tyr Leu Gln Gly Pro Ile Trp Ala Lys Ile Pro His
    610                 615                 620

Thr Asp Gly Asn Phe His Pro Ser Pro Leu Met Gly Gly Phe Gly Met
625                 630                 635                 640

Lys His Pro Pro Pro Gln Ile Leu Ile Lys Asn Thr Pro Val Pro Ala
                645                 650                 655

Asp Pro Pro Thr Ala Phe Asn Lys Asp Lys Leu Asn Ser Phe Ile Thr
            660                 665                 670

Gln Tyr Ser Thr Gly Gln Val Ser Val Glu Ile Glu Trp Glu Leu Gln
        675                 680                 685

Lys Glu Asn Ser Lys Arg Trp Asn Pro Glu Ile Gln Tyr Thr Ser Asn
    690                 695                 700

Tyr Tyr Lys Ser Asn Asn Val Glu Phe Ala Val Asn Thr Glu Gly Val
705                 710                 715                 720

Tyr Ser Glu Pro Arg Pro Ile Gly Thr Arg Tyr Leu Thr Arg Asn Leu
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725 730 735

<210> 2
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<213> Artificial Sequence

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<400> 2

Met Ala Ala Asp Gly Tyr Leu Pro Asp Trp Leu Glu Asp Asn Leu Ser
1 5 10 15

Glu Gly Ile Arg Glu Trp Trp Ala Leu Lys Pro Gly Ala Pro Gln Pro
20 25 30

Lys Ala Asn Gln Gln His Gln Asp Asn Ala Arg Gly Leu Val Leu Pro
35 40 45

Gly Tyr Lys Tyr Leu Gly Pro Gly Asn Gly Leu Asp Lys Gly Glu Pro
50 55 60

Val Asn Ala Ala Asp Ala Ala Ala Leu Glu His Asp Lys Ala Tyr Asp
65 70 75 80

Gln Gln Leu Lys Ala Gly Asp Asn Pro Tyr Leu Lys Tyr Asn His Ala
85 90 95

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

Asn Leu Gly Arg Ala Val Phe Gln Ala Lys Lys Arg Leu Leu Glu Pro
115 120 125

Leu Gly Leu Val Glu Glu Ala Ala Lys Thr Ala Pro Gly Lys Lys Arg
130 135 140

Pro Val Glu Gln Ser Pro Gln Glu Pro Asp Ser Ser Ala Gly Ile Gly
145 150 155 160

```
Lys Ser Gly Ala Gln Pro Ala Lys Lys Arg Leu Asn Phe Gly Gln Thr
                165                 170                 175

Gly Asp Thr Glu Ser Val Pro Asp Pro Gln Pro Ile Gly Glu Pro Pro
            180                 185                 190

Ala Ala Pro Ser Gly Val Gly Ser Leu Thr Met Ala Ser Gly Gly Gly
        195                 200                 205

Ala Pro Val Ala Asp Asn Asn Glu Gly Ala Asp Gly Val Gly Ser Ser
    210                 215                 220

Ser Gly Asn Trp His Cys Asp Ser Gln Trp Leu Gly Asp Arg Val Ile
225                 230                 235                 240

Thr Thr Ser Thr Arg Thr Trp Ala Leu Pro Thr Tyr Asn Asn His Leu
                245                 250                 255

Tyr Lys Gln Ile Ser Asn Ser Thr Ser Gly Gly Ser Ser Asn Asp Asn
            260                 265                 270

Ala Tyr Phe Gly Tyr Ser Thr Pro Trp Gly Tyr Phe Asp Phe Asn Arg
        275                 280                 285

Phe His Cys His Phe Ser Pro Arg Asp Trp Gln Arg Leu Ile Asn Asn
    290                 295                 300

Asn Trp Gly Phe Arg Pro Lys Arg Leu Asn Phe Lys Leu Phe Asn Ile
305                 310                 315                 320

Gln Val Lys Glu Val Thr Asp Asn Asn Gly Val Lys Thr Ile Ala Asn
                325                 330                 335

Asn Leu Thr Ser Thr Val Gln Val Phe Thr Asp Ser Asp Tyr Gln Leu
            340                 345                 350

Pro Tyr Val Leu Gly Ser Ala His Glu Gly Cys Leu Pro Pro Phe Pro
        355                 360                 365

Ala Asp Val Phe Met Ile Pro Gln Tyr Gly Tyr Leu Thr Leu Asn Asp
```

```
    370                 375                 380

Gly Ser Gln Ala Val Gly Arg Ser Ser Phe Tyr Cys Leu Glu Tyr Phe
385                 390                 395                 400

Pro Ser Gln Met Leu Arg Thr Gly Asn Asn Phe Gln Phe Ser Tyr Glu
                405                 410                 415

Phe Glu Asn Val Pro Phe His Ser Ser Tyr Ala His Ser Gln Ser Leu
            420                 425                 430

Asp Arg Leu Met Asn Pro Leu Ile Asp Gln Tyr Leu Tyr Tyr Leu Ser
        435                 440                 445

Arg Thr Ile Asn Gly Ser Gly Gln Asn Gln Gln Thr Leu Lys Phe Ser
    450                 455                 460

Val Ala Gly Pro Ser Asn Met Ala Val Gln Gly Arg Asn Tyr Ile Pro
465                 470                 475                 480

Gly Pro Ser Tyr Arg Gln Gln Arg Val Ser Thr Thr Val Thr Gln Asn
                485                 490                 495

Asn Asn Ser Glu Phe Ala Trp Pro Gly Ala Ser Ser Trp Ala Leu Asn
            500                 505                 510

Gly Arg Asn Ser Leu Met Asn Pro Gly Pro Ala Met Ala Ser His Lys
        515                 520                 525

Glu Gly Glu Asp Arg Phe Phe Pro Leu Ser Gly Ser Leu Ile Phe Gly
    530                 535                 540

Lys Gln Gly Thr Gly Arg Asp Asn Val Asp Ala Asp Lys Val Met Ile
545                 550                 555                 560

Thr Asn Glu Glu Glu Ile Lys Thr Thr Asn Pro Val Ala Thr Glu Ser
                565                 570                 575

Tyr Gly Gln Val Ala Thr Asn His Gln Ser Ala Gln Thr Leu Ala Val
            580                 585                 590
```

```
Pro Phe Lys Ala Gln Ala Gln Thr Gly Trp Val Gln Asn Gln Gly Ile
        595                 600                 605

Leu Pro Gly Met Val Trp Gln Asp Arg Asp Val Tyr Leu Gln Gly Pro
    610                 615                 620

Ile Trp Ala Lys Ile Pro His Thr Asp Gly Asn Phe His Pro Ser Pro
625                 630                 635                 640

Leu Met Gly Gly Phe Gly Met Lys His Pro Pro Pro Gln Ile Leu Ile
                645                 650                 655

Lys Asn Thr Pro Val Pro Ala Asp Pro Pro Thr Ala Phe Asn Lys Asp
            660                 665                 670

Lys Leu Asn Ser Phe Ile Thr Gln Tyr Ser Thr Gly Gln Val Ser Val
        675                 680                 685

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

Glu Ile Gln Tyr Thr Ser Asn Tyr Tyr Lys Ser Asn Asn Val Glu Phe
705                 710                 715                 720

Ala Val Asn Thr Glu Gly Val Tyr Ser Glu Pro Arg Pro Ile Gly Thr
                725                 730                 735

Arg Tyr Leu Thr Arg Asn Leu
            740
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<210> 3
<211> 743
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 3

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Met Ala Ala Asp Gly Tyr Leu Pro Asp Trp Leu Glu Asp Asn Leu Ser
```

```
1               5                   10                  15

Glu Gly Ile Arg Glu Trp Trp Ala Leu Lys Pro Gly Ala Pro Gln Pro
            20                  25                  30

Lys Ala Asn Gln Gln His Gln Asp Asn Ala Arg Gly Leu Val Leu Pro
        35                  40                  45

Gly Tyr Lys Tyr Leu Gly Pro Gly Asn Gly Leu Asp Lys Gly Glu Pro
    50                  55                  60

Val Asn Ala Ala Asp Ala Ala Ala Leu Glu His Asp Lys Ala Tyr Asp
65                  70                  75                  80

Gln Gln Leu Lys Ala Gly Asp Asn Pro Tyr Leu Lys Tyr Asn His Ala
                85                  90                  95

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

Asn Leu Gly Arg Ala Val Phe Gln Ala Lys Lys Arg Leu Leu Glu Pro
        115                 120                 125

Leu Gly Leu Val Glu Glu Ala Ala Lys Thr Ala Pro Gly Lys Lys Arg
    130                 135                 140

Pro Val Glu Gln Ser Pro Gln Glu Pro Asp Ser Ser Ala Gly Ile Gly
145                 150                 155                 160

Lys Ser Gly Ala Gln Pro Ala Lys Lys Arg Leu Asn Phe Gly Gln Thr
                165                 170                 175

Gly Asp Thr Glu Ser Val Pro Asp Pro Gln Pro Ile Gly Glu Pro Pro
            180                 185                 190

Ala Ala Pro Ser Gly Val Gly Ser Leu Thr Met Ala Ser Gly Gly Gly
        195                 200                 205

Ala Pro Val Ala Asp Asn Asn Glu Gly Ala Asp Gly Val Gly Ser Ser
    210                 215                 220
```

```
Ser Gly Asn Trp His Cys Asp Ser Gln Trp Leu Gly Asp Arg Val Ile
225                 230                 235                 240

Thr Thr Ser Thr Arg Thr Trp Ala Leu Pro Thr Tyr Asn Asn His Leu
                245                 250                 255

Tyr Lys Gln Ile Ser Asn Ser Thr Ser Gly Gly Ser Ser Asn Asp Asn
            260                 265                 270

Ala Tyr Phe Gly Tyr Ser Thr Pro Trp Gly Tyr Phe Asp Phe Asn Arg
        275                 280                 285

Phe His Cys His Phe Ser Pro Arg Asp Trp Gln Arg Leu Ile Asn Asn
    290                 295                 300

Asn Trp Gly Phe Arg Pro Lys Arg Leu Asn Phe Lys Leu Phe Asn Ile
305                 310                 315                 320

Gln Val Lys Glu Val Thr Asp Asn Asn Gly Val Lys Thr Ile Ala Asn
                325                 330                 335

Asn Leu Thr Ser Thr Val Gln Val Phe Thr Asp Ser Asp Tyr Gln Leu
            340                 345                 350

Pro Tyr Val Leu Gly Ser Ala His Glu Gly Cys Leu Pro Pro Phe Pro
        355                 360                 365

Ala Asp Val Phe Met Ile Pro Gln Tyr Gly Tyr Leu Thr Leu Asn Asp
    370                 375                 380

Gly Ser Gln Ala Val Gly Arg Ser Ser Phe Tyr Cys Leu Glu Tyr Phe
385                 390                 395                 400

Pro Ser Gln Met Leu Arg Thr Gly Asn Asn Phe Gln Phe Ser Tyr Glu
                405                 410                 415

Phe Glu Asn Val Pro Phe His Ser Ser Tyr Ala His Ser Gln Ser Leu
            420                 425                 430
```

```
Asp Arg Leu Met Asn Pro Leu Ile Asp Gln Tyr Leu Tyr Tyr Leu Ser
        435                 440                 445

Arg Thr Ile Asn Gly Ser Gly Gln Asn Gln Gln Thr Leu Lys Phe Ser
    450                 455                 460

Val Ala Gly Pro Ser Asn Met Ala Val Gln Gly Arg Asn Tyr Ile Pro
465                 470                 475                 480

Gly Pro Ser Tyr Arg Gln Gln Arg Val Ser Thr Thr Val Thr Gln Asn
                485                 490                 495

Asn Asn Ser Glu Phe Ala Trp Pro Gly Ala Ser Ser Trp Ala Leu Asn
            500                 505                 510

Gly Arg Asn Ser Leu Met Asn Pro Gly Pro Ala Met Ala Ser His Lys
        515                 520                 525

Glu Gly Glu Asp Arg Phe Phe Pro Leu Ser Gly Ser Leu Ile Phe Gly
    530                 535                 540

Lys Gln Gly Thr Gly Arg Asp Asn Val Asp Ala Asp Lys Val Met Ile
545                 550                 555                 560

Thr Asn Glu Glu Glu Ile Lys Thr Thr Asn Pro Val Ala Thr Glu Ser
                565                 570                 575

Tyr Gly Gln Val Ala Thr Asn His Gln Ser Ala Gln Gln Ala Val Arg
            580                 585                 590

Thr Ser Leu Ala Gln Ala Gln Thr Gly Trp Val Gln Asn Gln Gly Ile
        595                 600                 605

Leu Pro Gly Met Val Trp Gln Asp Arg Asp Val Tyr Leu Gln Gly Pro
    610                 615                 620

Ile Trp Ala Lys Ile Pro His Thr Asp Gly Asn Phe His Pro Ser Pro
625                 630                 635                 640
```

```
Leu Met Gly Gly Phe Gly Met Lys His Pro Pro Pro Gln Ile Leu Ile
                645                 650                 655

Lys Asn Thr Pro Val Pro Ala Asp Pro Pro Thr Ala Phe Asn Lys Asp
            660                 665                 670

Lys Leu Asn Ser Phe Ile Thr Gln Tyr Ser Thr Gly Gln Val Ser Val
        675                 680                 685

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

Glu Ile Gln Tyr Thr Ser Asn Tyr Tyr Lys Ser Asn Asn Val Glu Phe
705                 710                 715                 720

Ala Val Asn Thr Glu Gly Val Tyr Ser Glu Pro Arg Pro Ile Gly Thr
                725                 730                 735

Arg Tyr Leu Thr Arg Asn Leu
            740
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<210> 4
<211> 743
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 4

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Met Ala Ala Asp Gly Tyr Leu Pro Asp Trp Leu Glu Asp Asn Leu Ser
1               5                   10                  15

Glu Gly Ile Arg Glu Trp Trp Ala Leu Lys Pro Gly Ala Pro Gln Pro
            20                  25                  30

Lys Ala Asn Gln Gln His Gln Asp Asn Ala Arg Gly Leu Val Leu Pro
        35                  40                  45

Gly Tyr Lys Tyr Leu Gly Pro Gly Asn Gly Leu Asp Lys Gly Glu Pro
    50                  55                  60
```

```
Val Asn Ala Ala Asp Ala Ala Ala Leu Glu His Asp Lys Ala Tyr Asp
65                  70                  75                  80

Gln Gln Leu Lys Ala Gly Asp Asn Pro Tyr Leu Lys Tyr Asn His Ala
                85                  90                  95

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

Asn Leu Gly Arg Ala Val Phe Gln Ala Lys Lys Arg Leu Leu Glu Pro
        115                 120                 125

Leu Gly Leu Val Glu Glu Ala Ala Lys Thr Ala Pro Gly Lys Lys Arg
    130                 135                 140

Pro Val Glu Gln Ser Pro Gln Glu Pro Asp Ser Ser Ala Gly Ile Gly
145                 150                 155                 160

Lys Ser Gly Ala Gln Pro Ala Lys Lys Arg Leu Asn Phe Gly Gln Thr
                165                 170                 175

Gly Asp Thr Glu Ser Val Pro Asp Pro Gln Pro Ile Gly Glu Pro Pro
            180                 185                 190

Ala Ala Pro Ser Gly Val Gly Ser Leu Thr Met Ala Ser Gly Gly Gly
        195                 200                 205

Ala Pro Val Ala Asp Asn Asn Glu Gly Ala Asp Gly Val Gly Ser Ser
    210                 215                 220

Ser Gly Asn Trp His Cys Asp Ser Gln Trp Leu Gly Asp Arg Val Ile
225                 230                 235                 240

Thr Thr Ser Thr Arg Thr Trp Ala Leu Pro Thr Tyr Asn Asn His Leu
                245                 250                 255

Tyr Lys Gln Ile Ser Asn Ser Thr Ser Gly Gly Ser Ser Asn Asp Asn
            260                 265                 270
```

```
Ala Tyr Phe Gly Tyr Ser Thr Pro Trp Gly Tyr Phe Asp Phe Asn Arg
        275                 280                 285

Phe His Cys His Phe Ser Pro Arg Asp Trp Gln Arg Leu Ile Asn Asn
    290                 295                 300

Asn Trp Gly Phe Arg Pro Lys Arg Leu Asn Phe Lys Leu Phe Asn Ile
305                 310                 315                 320

Gln Val Lys Glu Val Thr Asp Asn Asn Gly Val Lys Thr Ile Ala Asn
                325                 330                 335

Asn Leu Thr Ser Thr Val Gln Val Phe Thr Asp Ser Asp Tyr Gln Leu
            340                 345                 350

Pro Tyr Val Leu Gly Ser Ala His Glu Gly Cys Leu Pro Pro Phe Pro
        355                 360                 365

Ala Asp Val Phe Met Ile Pro Gln Tyr Gly Tyr Leu Thr Leu Asn Asp
    370                 375                 380

Gly Ser Gln Ala Val Gly Arg Ser Ser Phe Tyr Cys Leu Glu Tyr Phe
385                 390                 395                 400

Pro Ser Gln Met Leu Arg Thr Gly Asn Asn Phe Gln Phe Ser Tyr Glu
                405                 410                 415

Phe Glu Asn Val Pro Phe His Ser Ser Tyr Ala His Ser Gln Ser Leu
            420                 425                 430

Asp Arg Leu Met Asn Pro Leu Ile Asp Gln Tyr Leu Tyr Tyr Leu Ser
        435                 440                 445

Arg Thr Ile Asn Gly Ser Gly Gln Asn Gln Gln Thr Leu Lys Phe Ser
    450                 455                 460

Val Ala Gly Pro Ser Asn Met Ala Val Gln Gly Arg Asn Tyr Ile Pro
465                 470                 475                 480

Gly Pro Ser Tyr Arg Gln Gln Arg Val Ser Thr Thr Val Thr Gln Asn
```

```
                485                 490                 495

Asn Asn Ser Glu Phe Ala Trp Pro Gly Ala Ser Ser Trp Ala Leu Asn
            500                 505                 510

Gly Arg Asn Ser Leu Met Asn Pro Gly Pro Ala Met Ala Ser His Lys
        515                 520                 525

Glu Gly Glu Asp Arg Phe Phe Pro Leu Ser Gly Ser Leu Ile Phe Gly
    530                 535                 540

Lys Gln Gly Thr Gly Arg Asp Asn Val Asp Ala Asp Lys Val Met Ile
545                 550                 555                 560

Thr Asn Glu Glu Glu Ile Lys Thr Thr Asn Pro Val Ala Thr Glu Ser
                565                 570                 575

Tyr Gly Gln Val Ala Thr Asn His Gln Ser Asp Gly Thr Leu Ala Val
            580                 585                 590

Pro Phe Lys Ala Gln Ala Gln Thr Gly Trp Val Gln Asn Gln Gly Ile
        595                 600                 605

Leu Pro Gly Met Val Trp Gln Asp Arg Asp Val Tyr Leu Gln Gly Pro
    610                 615                 620

Ile Trp Ala Lys Ile Pro His Thr Asp Gly Asn Phe His Pro Ser Pro
625                 630                 635                 640

Leu Met Gly Gly Phe Gly Met Lys His Pro Pro Pro Gln Ile Leu Ile
                645                 650                 655

Lys Asn Thr Pro Val Pro Ala Asp Pro Pro Thr Ala Phe Asn Lys Asp
            660                 665                 670

Lys Leu Asn Ser Phe Ile Thr Gln Tyr Ser Thr Gly Gln Val Ser Val
        675                 680                 685

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

```
Glu Ile Gln Tyr Thr Ser Asn Tyr Tyr Lys Ser Asn Asn Val Glu Phe
705                 710                 715                 720


Ala Val Asn Thr Glu Gly Val Tyr Ser Glu Pro Arg Pro Ile Gly Thr
                725                 730                 735


Arg Tyr Leu Thr Arg Asn Leu
            740
```

<210> 5
<211> 743
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 5

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Met Ala Ala Asp Gly Tyr Leu Pro Asp Trp Leu Glu Asp Asn Leu Ser
1               5                   10                  15


Glu Gly Ile Arg Glu Trp Trp Ala Leu Lys Pro Gly Ala Pro Gln Pro
            20                  25                  30


Lys Ala Asn Gln Gln His Gln Asp Asn Ala Arg Gly Leu Val Leu Pro
        35                  40                  45


Gly Tyr Lys Tyr Leu Gly Pro Gly Asn Gly Leu Asp Lys Gly Glu Pro
    50                  55                  60


Val Asn Ala Ala Asp Ala Ala Ala Leu Glu His Asp Lys Ala Tyr Asp
65                  70                  75                  80


Gln Gln Leu Lys Ala Gly Asp Asn Pro Tyr Leu Lys Tyr Asn His Ala
                85                  90                  95


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


Asn Leu Gly Arg Ala Val Phe Gln Ala Lys Lys Arg Leu Leu Glu Pro
```

```
        115                 120                 125

Leu Gly Leu Val Glu Glu Ala Ala Lys Thr Ala Pro Gly Lys Lys Arg
    130                 135                 140

Pro Val Glu Gln Ser Pro Gln Glu Pro Asp Ser Ser Ala Gly Ile Gly
145                 150                 155                 160

Lys Ser Gly Ala Gln Pro Ala Lys Lys Arg Leu Asn Phe Gly Gln Thr
                165                 170                 175

Gly Asp Thr Glu Ser Val Pro Asp Pro Gln Pro Ile Gly Glu Pro Pro
            180                 185                 190

Ala Ala Pro Ser Gly Val Gly Ser Leu Thr Met Ala Ser Gly Gly Gly
        195                 200                 205

Ala Pro Val Ala Asp Asn Asn Glu Gly Ala Asp Gly Val Gly Ser Ser
    210                 215                 220

Ser Gly Asn Trp His Cys Asp Ser Gln Trp Leu Gly Asp Arg Val Ile
225                 230                 235                 240

Thr Thr Ser Thr Arg Thr Trp Ala Leu Pro Thr Tyr Asn Asn His Leu
                245                 250                 255

Tyr Lys Gln Ile Ser Asn Ser Thr Ser Gly Gly Ser Ser Asn Asp Asn
            260                 265                 270

Ala Tyr Phe Gly Tyr Ser Thr Pro Trp Gly Tyr Phe Asp Phe Asn Arg
        275                 280                 285

Phe His Cys His Phe Ser Pro Arg Asp Trp Gln Arg Leu Ile Asn Asn
    290                 295                 300

Asn Trp Gly Phe Arg Pro Lys Arg Leu Asn Phe Lys Leu Phe Asn Ile
305                 310                 315                 320

Gln Val Lys Glu Val Thr Asp Asn Asn Gly Val Lys Thr Ile Ala Asn
                325                 330                 335
```

```
Asn Leu Thr Ser Thr Val Gln Val Phe Thr Asp Ser Asp Tyr Gln Leu
            340                 345                 350

Pro Tyr Val Leu Gly Ser Ala His Glu Gly Cys Leu Pro Pro Phe Pro
        355                 360                 365

Ala Asp Val Phe Met Ile Pro Gln Tyr Gly Tyr Leu Thr Leu Asn Asp
    370                 375                 380

Gly Ser Gln Ala Val Gly Arg Ser Ser Phe Tyr Cys Leu Glu Tyr Phe
385                 390                 395                 400

Pro Ser Gln Met Leu Arg Thr Gly Asn Asn Phe Gln Phe Ser Tyr Glu
                405                 410                 415

Phe Glu Asn Val Pro Phe His Ser Ser Tyr Ala His Ser Gln Ser Leu
            420                 425                 430

Asp Arg Leu Met Asn Pro Leu Ile Asp Gln Tyr Leu Tyr Tyr Leu Ser
        435                 440                 445

Arg Thr Ile Asn Gly Ser Gly Gln Asn Gln Gln Thr Leu Lys Phe Ser
    450                 455                 460

Val Ala Gly Pro Ser Asn Met Ala Val Gln Gly Arg Asn Tyr Ile Pro
465                 470                 475                 480

Gly Pro Ser Tyr Arg Gln Gln Arg Val Ser Thr Thr Val Thr Gln Asn
                485                 490                 495

Asn Asn Ser Glu Phe Ala Trp Pro Gly Ala Ser Ser Trp Ala Leu Asn
            500                 505                 510

Gly Arg Asn Ser Leu Met Asn Pro Gly Pro Ala Met Ala Ser His Lys
        515                 520                 525

Glu Gly Glu Asp Arg Phe Phe Pro Leu Ser Gly Ser Leu Ile Phe Gly
    530                 535                 540
```

```
Lys Gln Gly Thr Gly Arg Asp Asn Val Asp Ala Asp Lys Val Met Ile
545                 550                 555                 560

Thr Asn Glu Glu Glu Ile Lys Thr Thr Asn Pro Val Ala Thr Glu Ser
                565                 570                 575

Tyr Gly Gln Val Ala Thr Asn His Gln Ser Ala Gln Thr Leu Ala Val
            580                 585                 590

Pro Phe Ser Asn Pro Ala Gln Thr Gly Trp Val Gln Asn Gln Gly Ile
        595                 600                 605

Leu Pro Gly Met Val Trp Gln Asp Arg Asp Val Tyr Leu Gln Gly Pro
    610                 615                 620

Ile Trp Ala Lys Ile Pro His Thr Asp Gly Asn Phe His Pro Ser Pro
625                 630                 635                 640

Leu Met Gly Gly Phe Gly Met Lys His Pro Pro Pro Gln Ile Leu Ile
                645                 650                 655

Lys Asn Thr Pro Val Pro Ala Asp Pro Pro Thr Ala Phe Asn Lys Asp
            660                 665                 670

Lys Leu Asn Ser Phe Ile Thr Gln Tyr Ser Thr Gly Gln Val Ser Val
        675                 680                 685

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

Glu Ile Gln Tyr Thr Ser Asn Tyr Tyr Lys Ser Asn Asn Val Glu Phe
705                 710                 715                 720

Ala Val Asn Thr Glu Gly Val Tyr Ser Glu Pro Arg Pro Ile Gly Thr
                725                 730                 735

Arg Tyr Leu Thr Arg Asn Leu
            740
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<210> 6
<211> 2211
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 6
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gagtggtggg ctttgaaacc tggagcccct caacccaagg caaatcaaca acatcaagac 120

aacgctcgag gtcttgtgct tccgggttac aaataccttg gacccggcaa cggactcgac 180

aagggggagc cggtcaacgc agcagacgcg gcggccctcg agcacgacaa ggcctacgac 240

cagcagctca aggccggaga caacccgtac ctcaagtaca accacgccga cgccgagttc 300

caggagcggc tcaaagaaga tacgtctttt gggggcaacc tcgggcgagc agtcttccag 360

gccaaaaaga ggcttcttga acctcttggt ctggttgagg aagcggctaa gacggctcct 420

ggaaagaaga ggcctgtaga gcagtctcct caggaaccgg actcctccgc gggtattggc 480

aaatcgggtg cacagcccgc taaaaagaga ctcaatttcg gtcagactgg cgacacagag 540

tcagtcccag accctcaacc aatcggagaa cctcccgcag ccccctcagg tgtgggatct 600

cttacaatgg cttcaggtgg tggcgcacca gtggcagaca ataacgaagg tgccgatgga 660

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

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

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

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

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Phe Ser Val Thr Arg Gln Ala
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Gly Ala Ala Gly Lys Ser Leu
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Gly Arg Thr Val Gln Asp Arg
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His Ser Gly Pro Thr Ser Ser
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Leu Ile Ser Thr Thr His Arg
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Leu Lys Val Ala Ser Gly Leu
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Leu Leu Ala Thr Gly Leu Lys
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Leu Pro Gly Gly Ala Arg Leu
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Leu Arg Gly Ser Ala Gln Val
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Leu Thr Arg Val Gly Thr Val
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Met Ala Asn Thr Arg Ser Ala
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Met Ile Arg Gly Thr Ser Ser
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Met Leu Ser Gly Gln Ala Arg
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Met Arg Gly Gln Gly Val His
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Asn Asn Ser Gly His Ile Ser
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Asn Thr Leu Ile Asn Val Ser
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Ala Gln Thr Leu Ala Val Pro Phe Ser Asn Pro
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Ala Gln Ala Arg Gln Met Asp Leu Ser Ala Gln
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<400> 1066

Ala Gln Thr Asn Lys Val Gly Asn Ile Ala Gln
1 5 10

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<400> 1067

Ala Gln Leu Asn Ala Ile Lys Asn Ile Ala Gln
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Ala Gln Thr Leu Gln Ile Pro Phe Lys Ala Gln
1 5 10

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Ala Gln Thr Ala Leu Lys Pro Phe Leu Ala Gln
1 5 10

<210> 5665

<211> 11
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<400> 5665

Ala Gln Thr Thr Leu Lys Pro Phe Leu Ala Gln
1 5 10

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<400> 5666

Ala Gln Ser Ile Glu Arg Pro Phe Lys Ala Gln
1 5 10

<210> 5667
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<400> 5667

Ala Gln Thr Gln Asn Arg Pro Phe Leu Ala Gln
1 5 10

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<400> 5668

Ala Gln Thr Met Gln Lys Pro Phe Ile Ala Gln
1 5 10

<210> 5669
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<400> 5669

Ala Gln Thr Ser Thr Arg Pro Phe Leu Ala Gln
1   5   10

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<400> 5670

Ala Gln Gly Thr Phe Val Pro Pro Thr Ala Gln
1   5   10

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<400> 5671

Ala Gln Trp Ser Thr Asn Ala Gly Tyr Ala Gln
1   5   10

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<400> 5672

Ala Gln Thr Leu Glu Arg Pro Phe Thr Ala Gln
1   5   10

<210> 5673
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<400> 5673

Ala Gln Thr Ala Ala Lys Pro Phe Leu Ala Gln
1   5   10

<210> 5674
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<400> 5674

Ala Gln Ile Arg Ile Gly Tyr Ser Gln Ala Gln
1   5   10

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<400> 5675

Ala Gln Glu Arg Val Gly Phe Ala Gln Ala Gln
1   5   10

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<220>

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<400> 5676

Ala Gln Ala Asp Leu Leu Asn Tyr Arg Ala Gln
1   5   10

<210> 5677
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<400> 5677

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

<210> 5678
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<400> 5678

Ala Gln Ser Ser Leu Lys Pro Phe Leu Ala Gln
1   5   10

<210> 5679
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<220>
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<400> 5679

Ala Gln Thr His Ser Arg Pro Phe Ile Ala Gln
1   5   10

<210> 5680
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<220>
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<400> 5680

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

<210> 5681
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<400> 5681

Ala Gln Ile Ile Val Gly Tyr Ser Gln Ala Gln
1 5 10

<210> 5682
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<400> 5682

Ala Gln Arg Tyr Gln Gly Asp Ser Val Ala Gln
1 5 10

<210> 5683
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<220>
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<400> 5683

Ala Gln Arg Tyr Ala Gly Asp Ser Ile Ala Gln
1 5 10

<210> 5684
<211> 11
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<220>
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<400> 5684

Ala Gln Lys Thr Ile Gly Glu His Trp Ala Gln
1   5   10

<210> 5685
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<220>
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<400> 5685

Ala Gln Trp Met Thr His Gly Ser Ala Ala Gln
1   5   10

<210> 5686
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<220>
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<400> 5686

Ala Gln Ala Ala Ser Arg Pro Phe Leu Ala Gln
1   5   10

<210> 5687
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<400> 5687

Ala Gln Thr Thr Ser Arg Pro Phe Leu Ala Gln

1 5 10

<210> 5688
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<400> 5688

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

<210> 5689
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<400> 5689

Ala Gln Gly Thr Ser Pro Asn Leu Ala Ala Gln
1 5 10

<210> 5690
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<400> 5690

Ala Gln Val Arg Thr Gly Tyr Ser Ser Ala Gln
1 5 10

<210> 5691
<211> 11
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<400> 5691

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

<210> 5692
<211> 11
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<400> 5692

Ala Gln Thr Thr Leu Arg Pro Phe Ile Ala Gln
1 5 10

<210> 5693
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<400> 5693

Ala Gln Gly Ile Thr Ser Leu Phe Lys Ala Gln
1 5 10

<210> 5694
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<400> 5694

Ala Gln Thr Thr Gln Thr Pro Phe Arg Ala Gln
1 5 10

<210> 5695
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<400> 5695

Ala Gln Thr Val Ser Arg Pro Phe Leu Ala Gln
1   5   10

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<400> 5696

Ala Gln Tyr Gly Thr Asn Pro Phe Arg Ala Gln
1   5   10

<210> 5697
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<213> Artificial Sequence

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<400> 5697

Ala Gln Pro Thr Met Val Asp Ser Ser Ala Gln
1   5   10

<210> 5698
<211> 11
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<400> 5698

Ala Gln Asn Lys Ala Ser Ser Gln Asn Ala Gln
1   5   10

<210> 5699
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<212> PRT
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<220>
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<400> 5699

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

<210> 5700
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<400> 5700

Ala Gln Leu Pro Asp Arg Tyr Pro Asn Ala Gln
1 5 10

<210> 5701
<211> 11
<212> PRT
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<220>
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<400> 5701

Ala Gln Gln Asn Val Thr Lys Gly Val Ala Gln
1 5 10

<210> 5702
<211> 11
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<220>
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<400> 5702

Ala Gln Ala Gln Ser Pro Ile Leu Arg Ala Gln
1 5 10

<210> 5703
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<400> 5703

Ala Gln Val Ala Thr Gly Tyr Ser Ser Ala Gln
1   5   10

<210> 5704
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<400> 5704

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

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<400> 5705

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

<210> 5706
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<220>
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<400> 5706

Ala Gln Asp Leu Ser Arg Ile Phe Lys Ala Gln
1   5   10

<210> 5707
<211> 11
<212> PRT
<213> Artificial Sequence

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<400> 5707

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

<210> 5708
<211> 11
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<220>
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<400> 5708

Ala Gln Leu Glu Asn Met Val Met Ser Ala Gln
1   5   10

<210> 5709
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<220>
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<400> 5709

Ala Gln Leu Thr Gln Gln Thr Asp Val Ala Gln
1   5   10

<210> 5710
<211> 11
<212> PRT
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<400> 5710

Ala Gln Ala Gly Leu Ala His Ala Thr Ala Gln
1 5 10

<210> 5711
<211> 11
<212> PRT
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<400> 5711

Ala Gln Asn Ala His Thr Ala Leu Asp Ala Gln
1 5 10

<210> 5712
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<400> 5712

Ala Gln Trp Pro Ile Leu Arg Ala Asp Ala Gln
1 5 10

<210> 5713
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<400> 5713

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

<210> 5714
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<400> 5714

Ala Gln Arg Ile Asp Met Pro Phe Lys Ala Gln
1   5   10

<210> 5715
<211> 11
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<400> 5715

Ala Gln Thr Met Ser Leu Ser Ser Ser Ala Gln
1   5   10

<210> 5716
<211> 11
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<400> 5716

Ala Gln Gln Asn Val Ala Lys Asn Leu Ala Gln
1   5   10

<210> 5717
<211> 11
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<400> 5717

Ala Gln Phe Asp Asn Pro Asn Asn Val Ala Gln
1   5   10

<210> 5718

<211> 11
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<400> 5718

Ala Gln Val Leu Met Arg Glu Ser Leu Ala Gln
1 5 10

<210> 5719
<211> 11
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<400> 5719

Ala Gln His His Asp Thr Gly Ser Ala Ala Gln
1 5 10

<210> 5720
<211> 11
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<400> 5720

Ala Gln Asp Ala Pro Asn Ser Val Asp Ala Gln
1 5 10

<210> 5721
<211> 11
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<400> 5721

Ala Gln Thr Ala Ser Arg Asp Ala Lys Ala Gln
1 5 10

<210> 5722
<211> 11
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<220>
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<400> 5722

Ala Gln Thr Asn Tyr Thr Lys Gln Ile Ala Gln
1 5 10

<210> 5723
<211> 11
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<220>
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<400> 5723

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

<210> 5724
<211> 11
<212> PRT
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<220>
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<400> 5724

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

<210> 5725
<211> 11
<212> PRT
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<400> 5725

Ala Gln Met Val Pro Asn His Ser Gly Ala Gln
1   5   10

<210> 5726
<211> 11
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<400> 5726

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

<210> 5727
<211> 11
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<400> 5727

Ala Gln Leu Tyr His Gly Gly Ser Thr Ala Gln
1   5   10

<210> 5728
<211> 11
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<220>
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<400> 5728

Ala Gln Met Ile His Thr Arg Glu Thr Ala Gln
1   5   10

<210> 5729
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<213> Artificial Sequence

<220>

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<400> 5729

Ala Gln Thr Asn Asn Thr Lys Pro Leu Ala Gln
1   5   10

<210> 5730
<211> 11
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<213> Artificial Sequence

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<400> 5730

Ala Gln Leu Asn Thr Thr Arg Asn Thr Ala Gln
1   5   10

<210> 5731
<211> 11
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<213> Artificial Sequence

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<400> 5731

Ala Gln Ala Leu His Asn Ser Gln Asn Ala Gln
1   5   10

<210> 5732
<211> 11
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<400> 5732

Ala Gln Val Asn Ser Thr Arg Asn Val Ala Gln
1   5   10

<210> 5733
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<400> 5733

Ala Gln Gly Val Gly Val Val Thr Lys Ala Gln
1 5 10

<210> 5734
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5734

Ala Gln Val Leu Ser Lys Gln Leu Ala Ala Gln
1 5 10

<210> 5735
<211> 11
<212> PRT
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<220>
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<400> 5735

Ala Gln Ser Lys Ser Leu Gln Pro Leu Ala Gln
1 5 10

<210> 5736
<211> 11
<212> PRT
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<220>
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<400> 5736

Ala Gln Ser Asn Ser Thr Arg Leu Val Ala Gln
1 5 10

<210> 5737
<211> 11
<212> PRT
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<220>
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<400> 5737

Ala Gln Leu Asn Gln Thr Lys Gln Ile Ala Gln
1   5   10

<210> 5738
<211> 11
<212> PRT
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<220>
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<400> 5738

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

<210> 5739
<211> 11
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<220>
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<400> 5739

Ala Gln Met Ser Gly Tyr Ser His Thr Ala Gln
1   5   10

<210> 5740
<211> 11
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<400> 5740

Ala Gln Val Lys Val Pro Ile Ile Thr Ala Gln

1 5 10

<210> 5741
<211> 11
<212> PRT
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<220>
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<400> 5741

Ala Gln Gly Asn Asn Thr Arg Ala Val Ala Gln
1 5 10

<210> 5742
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5742

Ala Gln Gln Asn Gln Ile Lys Asn Ile Ala Gln
1 5 10

<210> 5743
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5743

Ala Gln Thr Asn Met Thr Lys Pro Leu Ala Gln
1 5 10

<210> 5744
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5744

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

<210> 5745
<211> 11
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<220>
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<400> 5745

Ala Gln Ser Met Leu Thr Ser Ile Val Ala Gln
1 5 10

<210> 5746
<211> 11
<212> PRT
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<220>
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<400> 5746

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

<210> 5747
<211> 11
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<220>
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<400> 5747

Ala Gln Asn Thr Gly Val Gln Val Arg Ala Gln
1 5 10

<210> 5748
<211> 11
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<213> Artificial Sequence

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<400> 5748

Ala Gln Thr Asn Thr Val Arg Pro Ile Ala Gln
1   5   10

<210> 5749
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<400> 5749

Ala Gln Gln Ser Thr Pro Gly Ala Thr Ala Gln
1   5   10

<210> 5750
<211> 11
<212> PRT
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<400> 5750

Ala Gln Gly His Ser Glu Asn Ser Arg Ala Gln
1   5   10

<210> 5751
<211> 11
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<400> 5751

Ala Gln Leu Pro Thr Gln Thr Leu Arg Ala Gln
1   5   10

<210> 5752
<211> 11

<212> PRT
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<220>
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<400> 5752

Ala Gln Lys Asn Ala Pro Met Pro Asp Ala Gln
1   5   10

<210> 5753
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5753

Ala Gln Ser Asn Ser Thr Lys Pro Thr Ala Gln
1   5   10

<210> 5754
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5754

Ala Gln Pro Ile Ile Thr Met Pro Ala Ala Gln
1   5   10

<210> 5755
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5755

Ala Gln Pro Leu Lys Gly Ile Gly Ser Ala Gln
1   5   10

<210> 5756
<211> 11
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<213> Artificial Sequence

<220>
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<400> 5756

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

<210> 5757
<211> 11
<212> PRT
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<220>
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<400> 5757

Ala Gln Ser Val Ala Ala Val His Met Ala Gln
1   5   10

<210> 5758
<211> 11
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<213> Artificial Sequence

<220>
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<400> 5758

Ala Gln Ser Asn Ser Ile Arg Leu Val Ala Gln
1   5   10

<210> 5759
<211> 11
<212> PRT
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<220>
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<400> 5759

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

<210> 5760
<211> 11
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<220>
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<400> 5760

Ala Gln Pro Pro Val Arg Ser Thr Ala Ala Gln
1 5 10

<210> 5761
<211> 11
<212> PRT
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<220>
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<400> 5761

Ala Gln Met Asn Thr Val Arg Asn Leu Ala Gln
1 5 10

<210> 5762
<211> 11
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<220>
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<400> 5762

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

<210> 5763
<211> 11
<212> PRT
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<220>
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<400> 5763

Ala Gln Thr Asn Ala Val Lys Leu Thr Ala Gln
1 5 10

<210> 5764
<211> 11
<212> PRT
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<220>
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<400> 5764

Ala Gln Arg Val Asp Ala Val Leu Ser Ala Gln
1 5 10

<210> 5765
<211> 11
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<220>
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<400> 5765

Ala Gln Thr Asn Ala Val Lys Ser Thr Ala Gln
1 5 10

<210> 5766
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5766

Ala Gln Met Leu Asn Thr Thr Ala Arg Ala Gln
1 5 10

<210> 5767
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5767

Ala Gln Gly Asn Asn Thr Arg Pro Thr Ala Gln
1   5   10

<210> 5768
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5768

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

<210> 5769
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5769

Ala Gln Val Ile Ala Leu Ser Thr Met Ala Gln
1   5   10

<210> 5770
<211> 11
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<213> Artificial Sequence

<220>
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<400> 5770

Ala Gln Leu Asn Thr Ile Arg Asn Val Ala Gln
1   5   10

<210> 5771

<211> 11
<212> PRT
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<220>
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<400> 5771

Ala Gln Ser Asn Ala Thr Arg Ser Val Ala Gln
1   5   10

<210> 5772
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5772

Ala Gln Gly Asn Gly Thr Lys Phe Ile Ala Gln
1   5   10

<210> 5773
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5773

Ala Gln Ser Asn Thr Ile Arg Pro Val Ala Gln
1   5   10

<210> 5774
<211> 11
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<213> Artificial Sequence

<220>
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<400> 5774

Ala Gln Ser Asn Ser Thr Arg Ala Ile Ala Gln
1   5   10

<210> 5775
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5775

Ala Gln Phe His Leu Thr Asp Arg Gly Ala Gln
1   5   10

<210> 5776
<211> 11
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<220>
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<400> 5776

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

<210> 5777
<211> 11
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<220>
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<400> 5777

Ala Gln Ala Asn Gln Ile His Asn Thr Ala Gln
1   5   10

<210> 5778
<211> 11
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<220>
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<400> 5778

Ala Gln Ser Asn Thr Val Arg Asn Thr Ala Gln
1   5   10

<210> 5779
<211> 11
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<400> 5779

Ala Gln Thr Ser Leu Gly Tyr Ser Ser Ala Gln
1   5   10

<210> 5780
<211> 11
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<220>
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<400> 5780

Ala Gln Ile Ser Gly Val Gln Thr Arg Ala Gln
1   5   10

<210> 5781
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<220>
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<400> 5781

Ala Gln Ser Asn Ala Val Arg Gln Thr Ala Gln
1   5   10

<210> 5782
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<220>

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<400> 5782

Ala Gln Ser Leu Ser Glu Leu Arg Ile Ala Gln
1   5   10

<210> 5783
<211> 11
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<220>
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<400> 5783

Ala Gln Ser Thr Glu Lys Arg Asp Glu Ala Gln
1   5   10

<210> 5784
<211> 11
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<220>
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<400> 5784

Ala Gln Asn Leu Val Gly Thr Leu Ile Ala Gln
1   5   10

<210> 5785
<211> 11
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<220>
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<400> 5785

Ala Gln Gly Asn Asn Ile Arg Leu Thr Ala Gln
1   5   10

<210> 5786
<211> 11
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<213> Artificial Sequence

<220>
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<400> 5786

Ala Gln Ala Val Pro Thr Gly Leu Arg Ala Gln
1   5   10

<210> 5787
<211> 11
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<220>
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<400> 5787

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

<210> 5788
<211> 11
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<213> Artificial Sequence

<220>
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<400> 5788

Ala Gln His Ala Asp Asn Arg Leu Lys Ala Gln
1   5   10

<210> 5789
<211> 11
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<220>
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<400> 5789

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

<210> 5790
<211> 11
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<220>
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<400> 5790

Ala Gln Gly Asn Thr Thr Arg Gly Leu Ala Gln
1   5   10

<210> 5791
<211> 11
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<220>
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<400> 5791

Ala Gln Leu Asn Leu Thr Ala Thr Asn Ala Gln
1   5   10

<210> 5792
<211> 11
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<220>
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<400> 5792

Ala Gln Ser Gly Val Ser Thr Thr Asp Ala Gln
1   5   10

<210> 5793
<211> 11
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<220>
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<400> 5793

Ala Gln Tyr Ala Lys Thr Leu Ala Met Ala Gln

1 5 10

<210> 5794
<211> 11
<212> PRT
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<220>
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<400> 5794

Ala Gln Met Asn His Thr Lys Pro Thr Ala Gln
1 5 10

<210> 5795
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5795

Ala Gln Ala Asn Ala Thr Arg Asn Ser Ala Gln
1 5 10

<210> 5796
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5796

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

<210> 5797
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5797

Ala Gln Ser Asn Ala Ile Lys Ala Thr Ala Gln
1 5 10

<210> 5798
<211> 11
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<220>
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<400> 5798

Ala Gln Tyr Pro Asp Asn Tyr Gly Lys Ala Gln
1 5 10

<210> 5799
<211> 11
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<220>
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<400> 5799

Ala Gln Gly Asn Thr Thr Ile Arg Ser Ala Gln
1 5 10

<210> 5800
<211> 11
<212> PRT
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<220>
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<400> 5800

Ala Gln Leu Gly Leu Thr Gly Ala Val Ala Gln
1 5 10

<210> 5801
<211> 11
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<220>
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<400> 5801

Ala Gln Ala Asn Ser Thr Arg Ile Leu Ala Gln
1   5   10

<210> 5802
<211> 11
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<213> Artificial Sequence

<220>
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<400> 5802

Ala Gln Asp Asn Ala Ile Arg Ala Gln Ala Gln
1   5   10

<210> 5803
<211> 11
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<220>
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<400> 5803

Ala Gln Thr Asn Tyr Thr Lys Leu Met Ala Gln
1   5   10

<210> 5804
<211> 11
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<213> Artificial Sequence

<220>
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<400> 5804

Ala Gln His Asn Ser Pro Ser Ser Tyr Ala Gln
1   5   10

<210> 5805
<211> 11

<212> PRT
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<220>
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<400> 5805

Ala Gln Glu Asn Met Val Arg Ser Val Ala Gln
1 5 10

<210> 5806
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5806

Ala Gln Thr Asn Asn Ile Lys Ser Tyr Ala Gln
1 5 10

<210> 5807
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5807

Ala Gln Thr Asn Ser Thr Arg Pro Val Ala Gln
1 5 10

<210> 5808
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5808

Ala Gln His Thr Ala Pro Pro His Pro Ala Gln
1 5 10

<210> 5809
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5809

Ala Gln Ala Leu Ser Gln Asn Thr Ser Ala Gln
1   5   10

<210> 5810
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5810

Ala Gln Pro Asn Val Thr Lys Asn Ala Ala Gln
1   5   10

<210> 5811
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5811

Ala Gln Leu Asp Thr Leu Thr Gly Tyr Ala Gln
1   5   10

<210> 5812
<211> 11
<212> PRT
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<220>
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<400> 5812

Ala Gln Pro Asn Ser Val Arg Ser Val Ala Gln
1   5   10

<210> 5813
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5813

Ala Gln Thr Ser Ser His Leu Pro His Ala Gln
1   5   10

<210> 5814
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5814

Ala Gln Val Leu His Gly Gly Asn Asp Ala Gln
1   5   10

<210> 5815
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5815

Ala Gln Ser Asn Tyr Val Lys Ser Ala Ala Gln
1   5   10

<210> 5816
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5816

Ala Gln Asp Asn Asn Ser Thr Arg Trp Ala Gln
1 5 10

<210> 5817
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5817

Ala Gln Thr Val Met Lys Gly Phe Thr Ala Gln
1 5 10

<210> 5818
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5818

Ala Gln Ser His Thr Leu Ser Thr Leu Ala Gln
1 5 10

<210> 5819
<211> 11
<212> PRT
<213> Artificial Sequence

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<400> 5819

Ala Gln Pro Gly Pro Gln Gln Ala Lys Ala Gln
1 5 10

<210> 5820
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5820

Ala Gln Thr Phe Gly Thr Ser Lys Leu Ala Gln
1   5   10

<210> 5821
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<213> Artificial Sequence

<220>
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<400> 5821

Ala Gln Ser Asn Ala Val Thr Asn Arg Ala Gln
1   5   10

<210> 5822
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5822

Ala Gln Leu Ser Met Ser Thr Val Pro Ala Gln
1   5   10

<210> 5823
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5823

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

<210> 5824

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

<220>
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<400> 5824

Ala Gln Thr Asn Ser Thr Lys Asn Ile Ala Gln
1 5 10

<210> 5825
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5825

Ala Gln Ile Asn Ala Gln Trp Ser Ala Ala Gln
1 5 10

<210> 5826
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5826

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

<210> 5827
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5827

Ala Gln Thr Asn Glu Thr Arg Met Val Ala Gln
1 5 10

<210> 5828
<211> 11
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<400> 5828

Ala Gln Ala Asn Ala Thr Arg Gly Val Ala Gln
1   5   10

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<400> 5829

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

<210> 5830
<211> 11
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<400> 5830

Ala Gln Leu Ser Glu Arg Asn Tyr Val Ala Gln
1   5   10

<210> 5831
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<400> 5831

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

<210> 5832
<211> 11
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<400> 5832

Ala Gln Gly Asn Thr Ala Lys Asn Ile Ala Gln
1 5 10

<210> 5833
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<400> 5833

Ala Gln Asp Asn Ala Val Arg Pro Leu Ala Gln
1 5 10

<210> 5834
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<400> 5834

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

<210> 5835
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<400> 5835

Ala Gln Pro Asn Thr Ile Arg Asn Val Ala Gln
1   5   10

<210> 5836
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<400> 5836

Ala Gln Glu Asn Leu Thr Arg Gly Val Ala Gln
1   5   10

<210> 5837
<211> 11
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<400> 5837

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

<210> 5838
<211> 11
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<220>
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<400> 5838

Ala Gln Glu Asn Ala Thr Arg Thr Tyr Ala Gln
1   5   10

<210> 5839
<211> 11
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<220>
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<400> 5839

Ala Gln Gly Asn Ser Thr Arg Met Asn Ala Gln
1 5 10

<210> 5840
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<400> 5840

Ala Gln Gly Asn Ser Thr Lys Ser Pro Ala Gln
1 5 10

<210> 5841
<211> 11
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<400> 5841

Ala Gln Met Gln Thr Thr Leu His Leu Ala Gln
1 5 10

<210> 5842
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<212> PRT
<213> Artificial Sequence

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<400> 5842

Ala Gln Asn Pro Thr Leu Ile Thr Leu Ala Gln
1 5 10

<210> 5843
<211> 11
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<400> 5843

Ala Gln Leu Ile Ser Gly His Ala Gln Ala Gln
1   5   10

<210> 5844
<211> 11
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<400> 5844

Ala Gln Phe Asn Gln Val Arg Ser Leu Ala Gln
1   5   10

<210> 5845
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<400> 5845

Ala Gln Met Asn Ile Leu Arg Glu Val Ala Gln
1   5   10

<210> 5846
<211> 11
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<400> 5846

Ala Gln Ser Ala Met Met Arg Gly Val Ala Gln

1 5 10

<210> 5847
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5847

Ala Gln Pro Met Leu Ser Ser Pro Ser Ala Gln
1 5 10

<210> 5848
<211> 11
<212> PRT
<213> Artificial Sequence

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<400> 5848

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

<210> 5849
<211> 11
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<220>
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<400> 5849

Ala Gln Arg His Ser Asp Pro Val Glu Ala Gln
1 5 10

<210> 5850
<211> 11
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<400> 5850

Ala Gln Val Asn Thr Thr Phe Ser Thr Ala Gln
1 5 10

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<211> 11
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<400> 5851

Ala Gln Ile Asn Ser Thr Arg Gly Ile Ala Gln
1 5 10

<210> 5852
<211> 11
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<400> 5852

Ala Gln Thr Asn Ala Val Arg Asp Leu Ala Gln
1 5 10

<210> 5853
<211> 11
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<400> 5853

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

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<400> 5854

Ala Gln Thr Ser Ile Ala Gly Ser Phe Ala Gln
1   5   10

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<400> 5855

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

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<400> 5856

Ala Gln Ala Asn Val Thr Thr Gln Arg Ala Gln
1   5   10

<210> 5857
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<400> 5857

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

<210> 5858
<211> 11

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<400> 5858

Ala Gln Ala Thr Asn Glu Pro Asp Arg Ala Gln
1   5   10

<210> 5859
<211> 11
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<220>
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<400> 5859

Ala Gln Arg Met Asn Pro Glu Gln Ser Ala Gln
1   5   10

<210> 5860
<211> 11
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<400> 5860

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

<210> 5861
<211> 11
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<400> 5861

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

<210> 5862
<211> 11
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<400> 5862

Ala Gln Leu Phe His Gly Thr His Glu Ala Gln
1   5   10

<210> 5863
<211> 11
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<400> 5863

Ala Gln Pro Gln Leu Gly Ser Thr Lys Ala Gln
1   5   10

<210> 5864
<211> 11
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<213> Artificial Sequence

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<400> 5864

Ala Gln Pro Ile Ser Ala Asn Arg Leu Ala Gln
1   5   10

<210> 5865
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5865

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

<210> 5866
<211> 11
<212> PRT
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<400> 5866

Ala Gln Lys Val Glu Ala Ile Gly Met Ala Gln
1   5   10

<210> 5867
<211> 11
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<213> Artificial Sequence

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<400> 5867

Ala Gln Lys Thr Leu Leu Asn Ser Val Ala Gln
1   5   10

<210> 5868
<211> 11
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<400> 5868

Ala Gln Asn Ala Met Asp Leu Lys Val Ala Gln
1   5   10

<210> 5869
<211> 11
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<400> 5869

Ala Gln Met Met Gly Asn Gly Ser Ser Ala Gln
1 5 10

<210> 5870
<211> 11
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<400> 5870

Ala Gln Ser Asn Ser Thr Lys Ala Leu Ala Gln
1 5 10

<210> 5871
<211> 11
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<220>
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<400> 5871

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

<210> 5872
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5872

Ala Gln Ser Leu Ser Ser Leu His Val Ala Gln
1 5 10

<210> 5873
<211> 11
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<400> 5873

Ala Gln Thr Leu Ser Gly Ala Leu Thr Ala Gln
1   5   10

<210> 5874
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<213> Artificial Sequence

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<400> 5874

Ala Gln Pro Asn Thr Val Arg Asn Asn Ala Gln
1   5   10

<210> 5875
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<212> PRT
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<400> 5875

Ala Gln Asn Asn Asn Val Lys Met Thr Ala Gln
1   5   10

<210> 5876
<211> 11
<212> PRT
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<400> 5876

Ala Gln Ser Val Ala Lys Pro Phe Met Ala Gln
1   5   10

<210> 5877

<211> 11
<212> PRT
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<220>
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<400> 5877

Ala Gln Thr Gln Thr Thr Arg Leu Ser Ala Gln
1 5 10

<210> 5878
<211> 11
<212> PRT
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<220>
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<400> 5878

Ala Gln Asn Asn Ala Thr Arg Gly Gly Ala Gln
1 5 10

<210> 5879
<211> 11
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<400> 5879

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

<210> 5880
<211> 11
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<400> 5880

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

<210> 5881
<211> 11
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<400> 5881

Ala Gln Ile Arg Glu Thr Ser Gly Lys Ala Gln
1 5 10

<210> 5882
<211> 11
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<400> 5882

Ala Gln Ser Ile Tyr Tyr His Thr Glu Ala Gln
1 5 10

<210> 5883
<211> 11
<212> PRT
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<220>
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<400> 5883

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

<210> 5884
<211> 11
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<400> 5884

Ala Gln Ser His Asn Met Thr Ile Arg Ala Gln
1 5 10

<210> 5885
<211> 11
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<400> 5885

Ala Gln Thr Ile Pro Ser Ala Gly Lys Ala Gln
1 5 10

<210> 5886
<211> 11
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<220>
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<400> 5886

Ala Pro Pro Arg His Thr Leu Ser Gln Ala Gln
1 5 10

<210> 5887
<211> 11
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<220>
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<400> 5887

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

<210> 5888
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<220>

<223> Synthetic Construct

<400> 5888

Ala Gln Tyr Gln Ser Leu Ala Asn Pro Ala Gln
1   5   10

<210> 5889
<211> 11
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<220>
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<400> 5889

Ala Gln Ile Leu Asn Met Ser Thr Asp Ala Gln
1   5   10

<210> 5890
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<212> PRT
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<220>
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<400> 5890

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

<210> 5891
<211> 11
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<400> 5891

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

<210> 5892
<211> 11
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<220>
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<400> 5892

Ala Gln Thr Asn Asp Thr Arg Arg Ile Ala Gln
1   5   10

<210> 5893
<211> 11
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<220>
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<400> 5893

Ala Gln Gln Thr Asp His Thr Ser Arg Ala Gln
1   5   10

<210> 5894
<211> 11
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<220>
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<400> 5894

Ala Gln Lys Asn Glu Ile Lys Asn Val Ala Gln
1   5   10

<210> 5895
<211> 11
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<220>
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<400> 5895

Ala Gln Trp Thr Gly Asn Glu Arg Leu Ala Gln
1   5   10

<210> 5896
<211> 11
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<220>
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<400> 5896

Ala Gln Gly Lys Ser Asp Ala Met Arg Ala Gln
1   5   10

<210> 5897
<211> 11
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<220>
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<400> 5897

Ala Gln Gly Asn Ala Thr Arg Thr Tyr Ala Gln
1   5   10

<210> 5898
<211> 11
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<220>
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<400> 5898

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

<210> 5899
<211> 11
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<220>
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<400> 5899

Ala Gln Ser Ser Leu Ser Gly Ser Pro Ala Gln

1 5 10

<210> 5900
<211> 11
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<400> 5900

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

<210> 5901
<211> 11
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<220>
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<400> 5901

Ala Gln Asp Gln Asn Gln Pro Arg Glu Ala Gln
1 5 10

<210> 5902
<211> 11
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<220>
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<400> 5902

Ala Gln Leu Thr Gln Asp Lys Gln Ala Ala Gln
1 5 10

<210> 5903
<211> 11
<212> PRT
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<220>
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<400> 5903

Ala Gln Phe Gly Ser Asn Glu His Asn Ala Gln
1 5 10

<210> 5904
<211> 11
<212> PRT
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<220>
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<400> 5904

Ala Gln Leu Asn Gln Pro Asn Val Arg Ala Gln
1 5 10

<210> 5905
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5905

Ala Gln Met Asn Thr Thr Arg Asn Leu Ala Gln
1 5 10

<210> 5906
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5906

Ala Gln Thr Asn Ser Thr Arg Thr Ser Ala Gln
1 5 10

<210> 5907
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5907

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

<210> 5908
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5908

Ala Gln Glu Gly Leu Gly Asn Ala Ala Ala Gln
1   5   10

<210> 5909
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5909

Ala Gln Leu Thr Val Thr Leu Asn His Ala Gln
1   5   10

<210> 5910
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5910

Ala Gln Phe Gly Asn Ala Ile Gln Ser Ala Gln
1   5   10

<210> 5911
<211> 11

<212> PRT
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<220>
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<400> 5911

Ala Gln Pro Gly Gly Gly Leu Thr Pro Ala Gln
1 5 10

<210> 5912
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5912

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

<210> 5913
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5913

Ala Gln Ser Gln Leu His Arg Leu Gln Ala Gln
1 5 10

<210> 5914
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5914

Ala Gln Asn Asp Pro Val Leu Thr Val Ala Gln
1 5 10

<210> 5915
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5915

Ala Gln Glu Asn Ser Val Arg Thr Thr Ala Gln
1   5   10

<210> 5916
<211> 11
<212> PRT
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<220>
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<400> 5916

Ala Gln Asp Arg Val Thr Asn Pro Lys Ala Gln
1   5   10

<210> 5917
<211> 11
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<213> Artificial Sequence

<220>
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<400> 5917

Ala Gln Leu Asn Thr Gly Gln Met Arg Ala Gln
1   5   10

<210> 5918
<211> 11
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<220>
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<400> 5918

Ala Gln Ile Ser Pro Ser Gln Val Lys Ala Gln
1   5   10

<210> 5919
<211> 11
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<220>
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<400> 5919

Ala Gln Tyr Ser Ala Asp Lys Thr Thr Ala Gln
1   5   10

<210> 5920
<211> 11
<212> PRT
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<220>
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<400> 5920

Ala Gln Ile Asp Ser Ala Gly Met Ala Ala Gln
1   5   10

<210> 5921
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5921

Ala Gln Ser Asn Asn Ile Lys Leu Asn Ala Gln
1   5   10

<210> 5922
<211> 11
<212> PRT
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<220>
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<400> 5922

Ala Gln Leu Glu Thr Gln Pro Arg Thr Ala Gln
1 5 10

<210> 5923
<211> 11
<212> PRT
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<220>
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<400> 5923

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

<210> 5924
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5924

Ala Gln Met Val Lys Asp Thr Gln Leu Ala Gln
1 5 10

<210> 5925
<211> 11
<212> PRT
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<220>
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<400> 5925

Ala Gln Leu Met His Leu Thr Asn Pro Ala Gln
1 5 10

<210> 5926
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5926

Ala Gln Val Ala Ser Pro Asp Lys Arg Ala Gln
1   5   10

<210> 5927
<211> 11
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<213> Artificial Sequence

<220>
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<400> 5927

Ala Gln Val Val Ala Val Leu Thr Ser Ala Gln
1   5   10

<210> 5928
<211> 11
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<213> Artificial Sequence

<220>
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<400> 5928

Ala Gln Asn Ile Met Val Asn Val Pro Ala Gln
1   5   10

<210> 5929
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5929

Ala Gln Pro Tyr Ser Gly Gln Arg Thr Ala Gln
1   5   10

<210> 5930

<211> 11
<212> PRT
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<220>
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<400> 5930

Ala Gln Pro Leu Leu Lys Thr Asn Thr Ala Gln
1 5 10

<210> 5931
<211> 11
<212> PRT
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<220>
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<400> 5931

Ala Gln Gly Asn Thr Thr Val Arg Gly Ala Gln
1 5 10

<210> 5932
<211> 11
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<220>
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<400> 5932

Ala Gln Thr Asn Lys Val Arg Asp Asp Ala Gln
1 5 10

<210> 5933
<211> 11
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<220>
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<400> 5933

Ala Gln Pro Ser Thr Ala Leu Leu Val Ala Gln
1 5 10

<210> 5934
<211> 11
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<213> Artificial Sequence

<220>
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<400> 5934

Ala Gln Ile Gln Ser Ile Thr Leu Lys Ala Gln
1   5   10

<210> 5935
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5935

Ala Gln Pro Leu His Ala Asn Met Ser Ala Gln
1   5   10

<210> 5936
<211> 11
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<220>
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<400> 5936

Ala Gln Thr Ala His Ala Glu Ala Arg Ala Gln
1   5   10

<210> 5937
<211> 11
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<400> 5937

Ala Gln Thr Asn Thr Asp Ser Tyr Arg Ala Gln
1 5 10

<210> 5938
<211> 11
<212> PRT
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<220>
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<400> 5938

Ala Gln Thr His Val Ser Leu Asp Arg Ala Gln
1 5 10

<210> 5939
<211> 11
<212> PRT
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<220>
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<400> 5939

Ala Gln Phe Ser Thr Lys Asp His Val Ala Gln
1 5 10

<210> 5940
<211> 11
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<400> 5940

Ala Gln Asp Asn Thr Gln Thr Ala Pro Ala Gln
1 5 10

<210> 5941
<211> 11
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<400> 5941

Ala Gln Ser Asn Arg Ile Ile Ser Gly Ala Gln
1   5   10

<210> 5942
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5942

Ala Gln Thr Asn Ser Val Arg Asn Asn Ala Gln
1   5   10

<210> 5943
<211> 11
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<400> 5943

Ala Gln Ser Asn Glu Val Arg Asn Met Ala Gln
1   5   10

<210> 5944
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<400> 5944

Ala Gln Glu Leu Tyr Lys Pro Ser Arg Ala Gln
1   5   10

<210> 5945
<211> 11
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<213> Artificial Sequence

<220>
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<400> 5945

Ala Gln Trp Ile Thr Gly Gly Ala Ser Ala Gln
1 5 10

<210> 5946
<211> 11
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<220>
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<400> 5946

Ala Gln Asn Asn Ser Val Arg Pro Thr Ala Gln
1 5 10

<210> 5947
<211> 11
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<400> 5947

Ala Gln His Thr Ala Val Leu Arg Thr Ala Gln
1 5 10

<210> 5948
<211> 11
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<220>
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<400> 5948

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

<210> 5949
<211> 11
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<400> 5949

Ala Gln Pro Asn Ala Ser Val Asn Ser Ala Gln
1   5   10

<210> 5950
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<400> 5950

Ala Gln Val Thr Gly Gly Asn Thr Tyr Ala Gln
1   5   10

<210> 5951
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<400> 5951

Ala Gln Val Asn Glu Asn Leu Ile Glu Ala Gln
1   5   10

<210> 5952
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<400> 5952

Ala Gln Val Leu Thr Thr His Ser Asn Ala Gln

1 5 10

<210> 5953
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<400> 5953

Ala Gln His Thr Gln Leu Pro Leu Thr Ala Gln
1 5 10

<210> 5954
<211> 11
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<400> 5954

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

<210> 5955
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<400> 5955

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

<210> 5956
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<400> 5956

Ala Gln Pro Thr Asn Ile Met Leu Asp Ala Gln
1 5 10

<210> 5957
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<400> 5957

Ala Gln Pro Asn Met Ser Ala Met Ile Ala Gln
1 5 10

<210> 5958
<211> 11
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<400> 5958

Ala Gln Ile Met Asn Gly Gln Ala Leu Ala Gln
1 5 10

<210> 5959
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<400> 5959

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

<210> 5960
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<400> 5960

Ala Gln Ala Asn Val Thr Arg Ser Thr Ala Gln
1   5   10

<210> 5961
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<400> 5961

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

<210> 5962
<211> 11
<212> PRT
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<220>
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<400> 5962

Ala Gln Gln Ala Gln Met Ser Ser Ala Ala Gln
1   5   10

<210> 5963
<211> 11
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<220>
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<400> 5963

Ala Gln Leu Thr Met Ala Thr Asn Val Ala Gln
1   5   10

<210> 5964
<211> 11

<212> PRT
<213> Artificial Sequence

<220>
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<400> 5964

Ala Gln Asp Arg Asp Ser Val Gln Asn Ala Gln
1   5   10

<210> 5965
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 5965

Ala Gln Val Asn Pro Thr Asn Asn Leu Ala Gln
1   5   10

<210> 5966
<211> 11
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<220>
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<400> 5966

Ala Gln Pro Ser Phe Thr Thr Met Ser Ala Gln
1   5   10

<210> 5967
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<400> 5967

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

<210> 5968
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<400> 5968

Ala Gln Ser Leu Asn Phe Thr Thr Ala Ala Gln
1   5   10

<210> 5969
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<220>
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<400> 5969

Ala Gln Gly Met Ser Gly Val Ala Gln Ala Gln
1   5   10

<210> 5970
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<400> 5970

Ala Gln Lys Val Asp Ala Ala Gln Ser Ala Gln
1   5   10

<210> 5971
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<220>
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<400> 5971

Ala Gln His Ile Thr Thr Asn Val Ser Ala Gln
1   5   10

<210> 5972
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<400> 5972

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

<210> 5973
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<400> 5973

Ala Gln Asp Asn Arg Thr Gln Arg Thr Ala Gln
1   5   10

<210> 5974
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<220>
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<400> 5974

Ala Gln Ser Ala Pro Asn Val Thr Ile Ala Gln
1   5   10

<210> 5975
<211> 11
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<220>
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<400> 5975

Ala Gln Glu Asn Gly Thr Arg Asn Thr Ala Gln
1 5 10

<210> 5976
<211> 11
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<213> Artificial Sequence

<220>
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<400> 5976

Ala Gln Gly Thr Ala Val Phe Thr Ala Ala Gln
1 5 10

<210> 5977
<211> 11
<212> PRT
<213> Artificial Sequence

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<400> 5977

Ala Gln Ala Asn Asn Met Ser Gln Thr Ala Gln
1 5 10

<210> 5978
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<400> 5978

Ala Gln Gly Asn His Thr Tyr Asn Leu Ala Gln
1 5 10

<210> 5979
<211> 11
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<400> 5979

Ala Gln Leu Ser Pro Ser Asn Ser Asn Ala Gln
1   5   10

<210> 5980
<211> 11
<212> PRT
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<220>
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<400> 5980

Ala Gln Met Gly Ala Asp His Arg Thr Ala Gln
1   5   10

<210> 5981
<211> 11
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<400> 5981

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

<210> 5982
<211> 11
<212> PRT
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<400> 5982

Ala Gln Asn Thr Ser Gly Val Pro Lys Ala Gln
1   5   10

<210> 5983

<211> 11
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<400> 5983

Ala Gln Ile Asn Thr Ala Val Val Ser Ala Gln
1 5 10

<210> 5984
<211> 11
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<400> 5984

Ala Gln Met Gly Val Gln Ala Tyr Val Ala Gln
1 5 10

<210> 5985
<211> 11
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<400> 5985

Ala Gln Gly Asn Phe Val Lys Pro Asn Ala Gln
1 5 10

<210> 5986
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<400> 5986

Ala Gln Val Asn Ser Val Arg Met Ile Ala Gln
1 5 10

<210> 5987
<211> 11
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<213> Artificial Sequence

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<400> 5987

Ala Gln His Asp Ser Ala Asn Ser Arg Ala Gln
1   5   10

<210> 5988
<211> 11
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<400> 5988

Ala Gln Leu Gly Val Arg Asp Asp Ser Ala Gln
1   5   10

<210> 5989
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<212> PRT
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<400> 5989

Ala Gln Ser Asn Ala Val Arg Ala Asn Ala Gln
1   5   10

<210> 5990
<211> 11
<212> PRT
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<220>
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<400> 5990

Ala Gln Pro Val Leu Ala Ala Thr Met Ala Gln
1 5 10

<210> 5991
<211> 11
<212> PRT
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<220>
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<400> 5991

Ala Gln Asn Lys Pro Val Ser Gly Asn Ala Gln
1 5 10

<210> 5992
<211> 11
<212> PRT
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<220>
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<400> 5992

Ala Gln Val Gly Leu Ala Ser His Thr Ala Gln
1 5 10

<210> 5993
<211> 11
<212> PRT
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<220>
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<400> 5993

Ala Gln Gly Ser Asn Thr Asn Met Lys Ala Gln
1 5 10

<210> 5994
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<220>

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<400> 5994

Ala Gln Val Ala Thr Thr Val His Asn Ala Gln
1 5 10

<210> 5995
<211> 11
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<220>
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<400> 5995

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

<210> 5996
<211> 11
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<400> 5996

Ala Gln Arg Glu Ala Asn Leu Gln Ala Ala Gln
1 5 10

<210> 5997
<211> 11
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<220>
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<400> 5997

Ala Gln Val Asp Ala Leu Ser His Met Ala Gln
1 5 10

<210> 5998
<211> 11
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<213> Artificial Sequence

<220>
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<400> 5998

Ala Gln Leu Arg Leu Ala Gly Leu Ala Ala Gln
1 5 10

<210> 5999
<211> 11
<212> PRT
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<400> 5999

Ala Gln Ile Thr Val Thr Asn Tyr Ser Ala Gln
1 5 10

<210> 6000
<211> 11
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<220>
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<400> 6000

Ala Gln Trp Asp Ser Gly Ser Gly Glu Ala Gln
1 5 10

<210> 6001
<211> 11
<212> PRT
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<220>
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<400> 6001

Ala Gln Phe Ala Ser Glu Thr Val Ala Ala Gln
1 5 10

<210> 6002
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6002

Ala Gln Gln Asn Val Thr Gly Thr Arg Ala Gln
1   5   10

<210> 6003
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6003

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

<210> 6004
<211> 11
<212> PRT
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<220>
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<400> 6004

Ala Gln Asn Met Leu Lys Gln Ser Glu Ala Gln
1   5   10

<210> 6005
<211> 11
<212> PRT
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<220>
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<400> 6005

Ala Gln Phe Asn Glu Val Pro Lys Ala Ala Gln

1 5 10

<210> 6006
<211> 11
<212> PRT
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<220>
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<400> 6006

Ala Gln Leu Gly Asp Ile Thr Gly Phe Ala Gln
1 5 10

<210> 6007
<211> 11
<212> PRT
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<220>
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<400> 6007

Ala Gln Ile Ser Ala Ser His Ser Arg Ala Gln
1 5 10

<210> 6008
<211> 11
<212> PRT
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<220>
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<400> 6008

Ala Gln Ser Gln Thr Gln Ile Ala Leu Ala Gln
1 5 10

<210> 6009
<211> 11
<212> PRT
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<220>
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<400> 6009

Ala Gln Asn Met Ala Thr Gln Met Lys Ala Gln
1 5 10

<210> 6010
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6010

Ala Gln Val Asn His Asn Ile Arg Leu Ala Gln
1 5 10

<210> 6011
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6011

Ala Gln Asn Ala Leu Gln Val Pro Val Ala Gln
1 5 10

<210> 6012
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6012

Ala Gln Asn Ser Thr Gly Ile Asp Thr Ala Gln
1 5 10

<210> 6013
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6013

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

<210> 6014
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6014

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

<210> 6015
<211> 11
<212> PRT
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<400> 6015

Ala Gln Asn Arg Val Asp Ser Arg Ala Ala Gln
1   5   10

<210> 6016
<211> 11
<212> PRT
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<220>
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<400> 6016

Ala Gln Ser Thr His Ser Thr Tyr Val Ala Gln
1   5   10

<210> 6017
<211> 11

<212> PRT
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<220>
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<400> 6017

Ala Gln Ser Gly His Gly Thr Leu Arg Ala Gln
1   5   10

<210> 6018
<211> 11
<212> PRT
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<400> 6018

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

<210> 6019
<211> 11
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<400> 6019

Ala Gln Asp Thr Lys Pro Thr Asn Thr Ala Gln
1   5   10

<210> 6020
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<400> 6020

Ala Gln Asn Arg Asp Thr Ile Asn Asn Ala Gln
1   5   10

<210> 6021
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<400> 6021

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

<210> 6022
<211> 11
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<220>
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<400> 6022

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

<210> 6023
<211> 11
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<220>
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<400> 6023

Ala Gln Leu Gly Asn Pro Thr Pro Ser Ala Gln
1   5   10

<210> 6024
<211> 11
<212> PRT
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<220>
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<400> 6024

Ala Gln Tyr Gln Ala Met Tyr Arg Asp Ala Gln
1 5 10

<210> 6025
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6025

Ala Gln Ser Gly Val Gln Glu Phe Asp Ala Gln
1 5 10

<210> 6026
<211> 11
<212> PRT
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<220>
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<400> 6026

Ala Gln Ser Asn His Leu Ser Thr Val Ala Gln
1 5 10

<210> 6027
<211> 11
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<220>
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<400> 6027

Ala Gln His Asp Glu Arg Ala Asn Met Ala Gln
1 5 10

<210> 6028
<211> 11
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<213> Artificial Sequence

<220>
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<400> 6028

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

<210> 6029
<211> 11
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<220>
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<400> 6029

Ala Gln Pro Thr Asp Lys Ser Tyr Pro Ala Gln
1 5 10

<210> 6030
<211> 11
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<220>
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<400> 6030

Ala Gln Met Thr Glu Gln Arg Thr Ala Ala Gln
1 5 10

<210> 6031
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6031

Ala Gln Thr Asn Ala Thr His Ser Lys Ala Gln
1 5 10

<210> 6032
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6032

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

<210> 6033
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6033

Ala Gln Asn Thr Thr Lys Phe Asn Thr Ala Gln
1   5   10

<210> 6034
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6034

Ala Gln Gly Ile Pro Pro Leu Thr Lys Ala Gln
1   5   10

<210> 6035
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6035

Ala Gln Thr Ala Asn Ser Thr Gln Arg Ala Gln
1   5   10

<210> 6036

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

<220>
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<400> 6036

Ala Gln Thr Gln Gly Pro Gly Pro Lys Ala Gln
1 5 10

<210> 6037
<211> 11
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<220>
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<400> 6037

Ala Gln Met Asn Thr Thr Arg Asn Tyr Ala Gln
1 5 10

<210> 6038
<211> 11
<212> PRT
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<220>
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<400> 6038

Ala Gln Leu Arg Glu Gly Thr Phe Met Ala Gln
1 5 10

<210> 6039
<211> 11
<212> PRT
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<220>
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<400> 6039

Ala Gln Asn Ile Ser Ser Thr Asp Arg Ala Gln
1 5 10

<210> 6040
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6040

Ala Gln Ser Val Ser Arg Pro Phe Gln Ala Gln
1   5   10

<210> 6041
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6041

Ala Gln Pro Met Ser Ala Asn Gly Lys Ala Gln
1   5   10

<210> 6042
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6042

Ala Gln Glu Val Arg Gly Asn Thr Phe Ala Gln
1   5   10

<210> 6043
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6043

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

<210> 6044
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6044

Ala Gln Ile Ala Glu Asn Leu Ser Ala Ala Gln
1   5   10

<210> 6045
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6045

Ala Gln Phe Ser Asn Met Asn Leu Lys Ala Gln
1   5   10

<210> 6046
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6046

Ala Gln Pro Arg Glu Arg Thr Tyr Thr Ala Gln
1   5   10

<210> 6047
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<400> 6047

Ala Gln Trp Ser His Asn Pro Asp Ser Ala Gln
1   5   10

<210> 6048
<211> 11
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<400> 6048

Ala Gln Gly Leu Gln Thr Leu Ile Thr Ala Gln
1   5   10

<210> 6049
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<213> Artificial Sequence

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<400> 6049

Ala Gln Ser Asn Arg Thr Lys Asp Ile Ala Gln
1   5   10

<210> 6050
<211> 11
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<213> Artificial Sequence

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<400> 6050

Ala Gln Val Thr Glu Thr Ile Leu Lys Ala Gln
1   5   10

<210> 6051
<211> 11
<212> PRT

<213> Artificial Sequence

<220>
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<400> 6051

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

<210> 6052
<211> 11
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<213> Artificial Sequence

<220>
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<400> 6052

Ala Gln Met Asn Ala Asn Ile Leu Val Ala Gln
1   5   10

<210> 6053
<211> 11
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<400> 6053

Ala Gln Thr Thr Asn Arg Val Gly Thr Ala Gln
1   5   10

<210> 6054
<211> 11
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<400> 6054

Ala Gln Val Leu Lys Ser His Leu Gln Ala Gln
1   5   10

<210> 6055
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<400> 6055

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

<210> 6056
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<400> 6056

Ala Gln Leu Asn Ser Val Lys Pro Asn Ala Gln
1   5   10

<210> 6057
<211> 11
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<400> 6057

Ala Gln Ser Gln Ala Ile Ala Pro Lys Ala Gln
1   5   10

<210> 6058
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<400> 6058

Ala Gln Ser Asn Asn Val Arg Ala Pro Ala Gln

1 5 10

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<400> 6059

Ala Gln Ile Ser His Leu Ser Glu Ser Ala Gln
1 5 10

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<400> 6060

Ala Gln Leu Leu Pro Gly Met Arg Phe Ala Gln
1 5 10

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<400> 6061

Ala Gln Leu Leu Ala Ser Ala Thr Lys Ala Gln
1 5 10

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<400> 6062

Ala Gln Asn His Asn Gly Met Val Ser Ala Gln
1 5 10

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<400> 6063

Ala Gln His Ser Gly Glu Leu Asn Asn Ala Gln
1 5 10

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<400> 6064

Ala Gln Leu Ser Ala Pro Lys Asp Thr Ala Gln
1 5 10

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<400> 6065

Ala Gln Ile Gly Thr His Val Gly Thr Ala Gln
1 5 10

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<400> 6066

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

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<400> 6067

Ala Gln Ile Thr Leu Gln Ser Asn Ala Ala Gln
1   5   10

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<400> 6068

Ala Gln Val Asp His Ser Leu Thr Ser Ala Gln
1   5   10

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<400> 6069

Ala Gln Gly Asn Glu Ala Thr Ser Leu Ala Gln
1   5   10

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<400> 6070

Ala Gln Pro Val Ser Ser Thr Thr Leu Ala Gln
1   5   10

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<400> 6071

Ala Gln Pro Tyr Gln Thr Ser Ser Ala Ala Gln
1   5   10

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<400> 6072

Ala Gln Thr Ser Val Val Ser Ala Phe Ala Gln
1   5   10

<210> 6073
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<400> 6073

Ala Gln Asn Gly Val Pro Asp Asn Asn Ala Gln
1   5   10

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<400> 6074

Ala Gln Ser Thr Gln Thr Ile Gly Phe Ala Gln
1   5   10

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<400> 6075

Ala Gln Ile Arg Ser Ser Asp Leu Ala Ala Gln
1   5   10

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<400> 6076

Ala Gln Asn Thr Gln Ser Ala Lys Tyr Ala Gln
1   5   10

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<400> 6077

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

<210> 6078
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<400> 6078

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

<210> 6079
<211> 11
<212> PRT
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<400> 6079

Ala Gln Met Gln Glu Arg Arg Glu Tyr Ala Gln
1   5   10

<210> 6080
<211> 11
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<400> 6080

Ala Gln Trp Leu Leu Lys Asp Gly Tyr Ala Gln
1   5   10

<210> 6081
<211> 11
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<400> 6081

Ala Gln Gly Arg Tyr Gln Thr Thr Ser Ala Gln
1 5 10

<210> 6082
<211> 11
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<400> 6082

Ala Gln Asn Thr Thr Lys Phe Pro Phe Ala Gln
1 5 10

<210> 6083
<211> 11
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<400> 6083

Ala Gln Met Ser Asn Gly Ile Ser Arg Ala Gln
1 5 10

<210> 6084
<211> 11
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<220>
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<400> 6084

Ala Gln Pro Ile Arg Asp Pro Glu Lys Ala Gln
1 5 10

<210> 6085
<211> 11
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<400> 6085

Ala Gln Ser Thr Leu Ser Pro His Val Ala Gln
1   5   10

<210> 6086
<211> 11
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<400> 6086

Ala Gln Phe Met Pro Ile Ser Ser Ala Ala Gln
1   5   10

<210> 6087
<211> 11
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<400> 6087

Ala Gln Arg Ser Asp Thr Gln Ser Ser Ala Gln
1   5   10

<210> 6088
<211> 11
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<400> 6088

Ala Gln Asp Asn His Val Met Ala Arg Ala Gln
1   5   10

<210> 6089

<211> 11
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<400> 6089

Ala Gln Asn Leu Ser Ser Lys Ser Trp Ala Gln
1   5   10

<210> 6090
<211> 11
<212> PRT
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<400> 6090

Ala Gln Ser Thr Ile Leu Lys Asp Thr Ala Gln
1   5   10

<210> 6091
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<400> 6091

Ala Gln Pro Thr His Gln Ser Lys Pro Ala Gln
1   5   10

<210> 6092
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<400> 6092

Ala Gln Thr Glu Val Thr Gln Asn Lys Ala Gln
1   5   10

<210> 6093
<211> 11
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<400> 6093

Ala Gln His Leu Asp Ser Asn Gly Ser Ala Gln
1   5   10

<210> 6094
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6094

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

<210> 6095
<211> 11
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<400> 6095

Ala Gln Ser Met Gly Leu Lys Glu Lys Ala Gln
1   5   10

<210> 6096
<211> 11
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<400> 6096

Ala Gln Leu Ser Thr Ser Tyr Thr Arg Ala Gln
1 5 10

<210> 6097
<211> 11
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<213> Artificial Sequence

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<400> 6097

Ala Gln Ser Gly Met Ser Asn Asn His Ala Gln
1 5 10

<210> 6098
<211> 11
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<400> 6098

Ala Gln Thr Asn Tyr Asp Leu Arg Ala Ala Gln
1 5 10

<210> 6099
<211> 11
<212> PRT
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<400> 6099

Ala Gln Thr Pro Gln Ser Gln Glu Met Ala Gln
1 5 10

<210> 6100
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<220>

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<400> 6100

Ala Gln Asn Ser Asn Met Val Thr Pro Ala Gln
1   5   10

<210> 6101
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<213> Artificial Sequence

<220>
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<400> 6101

Ala Gln Ser Ala Val Pro Asn Val Lys Ala Gln
1   5   10

<210> 6102
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6102

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

<210> 6103
<211> 11
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<213> Artificial Sequence

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<400> 6103

Ala Gln Gly Asn Asn Ser Arg Asn Met Ala Gln
1   5   10

<210> 6104
<211> 11
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<213> Artificial Sequence

<220>
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<400> 6104

Ala Gln Met Pro Arg Gly His Val Ser Ala Gln
1 5 10

<210> 6105
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6105

Ala Gln Trp Ser His Ser Glu Asn Ser Ala Gln
1 5 10

<210> 6106
<211> 11
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<213> Artificial Sequence

<220>
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<400> 6106

Ala Gln Phe Glu Lys Asp Pro Val Ala Ala Gln
1 5 10

<210> 6107
<211> 11
<212> PRT
<213> Artificial Sequence

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<400> 6107

Ala Gln Ile Thr Gln Ala Thr Pro Ser Ala Gln
1 5 10

<210> 6108
<211> 11
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<213> Artificial Sequence

<220>
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<400> 6108

Ala Gln Ala Asn Leu Ser His Leu His Ala Gln
1   5   10

<210> 6109
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6109

Ala Gln Gly Ile Thr Asn Ser Thr Ile Ala Gln
1   5   10

<210> 6110
<211> 11
<212> PRT
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<400> 6110

Ala Gln Pro Ser Gln Gln Pro Thr Arg Ala Gln
1   5   10

<210> 6111
<211> 11
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<400> 6111

Ala Gln Gln Gln Thr His Glu Asp Ile Ala Gln

1 5 10

<210> 6112
<211> 11
<212> PRT
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<400> 6112

Ala Gln Gln Val Asn Val Ser Pro Asp Ala Gln
1 5 10

<210> 6113
<211> 11
<212> PRT
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<400> 6113

Ala Gln Lys Ala Val Val Thr Gln Thr Ala Gln
1 5 10

<210> 6114
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6114

Ala Gln Asn Thr Val Arg Ser Ser Thr Ala Gln
1 5 10

<210> 6115
<211> 11
<212> PRT
<213> Artificial Sequence

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<400> 6115

Ala Gln Asn Ala Ser Ser His Leu Leu Ala Gln
1 5 10

<210> 6116
<211> 11
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<400> 6116

Ala Gln Tyr Ile Lys Asp Ser Thr Pro Ala Gln
1 5 10

<210> 6117
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6117

Ala Gln Ser Ser Glu Ser Thr Asn Leu Ala Gln
1 5 10

<210> 6118
<211> 11
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<400> 6118

Ala Gln Lys Glu Asn Val Glu Gly Asn Ala Gln
1 5 10

<210> 6119
<211> 11
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<220>
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<400> 6119

Ala Gln Asn Asn Val Leu Gly Thr Pro Ala Gln
1   5   10

<210> 6120
<211> 11
<212> PRT
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<220>
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<400> 6120

Ala Gln Gln Asn Val Ser Ile Leu Asp Ala Gln
1   5   10

<210> 6121
<211> 11
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<400> 6121

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

<210> 6122
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<400> 6122

Ala Gln Thr Ile Asn Leu Val Gly Tyr Ala Gln
1   5   10

<210> 6123
<211> 11

<212> PRT
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<400> 6123

Ala Gln Pro Ala Leu Ala Ala Gln Ala Ala Gln
1   5   10

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<400> 6124

Ala Gln Thr Leu Gln Asn Ser Ile Thr Ala Gln
1   5   10

<210> 6125
<211> 11
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<400> 6125

Ala Gln Leu Gly Gly Thr Asp Gly His Ala Gln
1   5   10

<210> 6126
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<400> 6126

Ala Gln Ala Gly Pro Ile Asn Asn Thr Ala Gln
1   5   10

<210> 6127
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<400> 6127

Ala Gln His Val Leu Thr Gln Ser Val Ala Gln
1 5 10

<210> 6128
<211> 11
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<400> 6128

Ala Gln Thr Thr Ile Pro Ser His Gln Ala Gln
1 5 10

<210> 6129
<211> 11
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<400> 6129

Ala Gln His Asp Gly Leu Leu Ser Arg Ala Gln
1 5 10

<210> 6130
<211> 11
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<400> 6130

Ala Gln Ser Ile His Thr Gly Leu Thr Ala Gln
1   5   10

<210> 6131
<211> 11
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<400> 6131

Ala Gln Gly Asn Met Thr Lys Phe Thr Ala Gln
1   5   10

<210> 6132
<211> 11
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<400> 6132

Ala Gln Tyr Ala Leu Ser Thr Asp Thr Ala Gln
1   5   10

<210> 6133
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<400> 6133

Ala Gln Thr Gln Ala Asp Asn Leu Lys Ala Gln
1   5   10

<210> 6134
<211> 11
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<400> 6134

Ala Gln Trp Tyr Lys Thr Leu Asp Ala Ala Gln
1 5 10

<210> 6135
<211> 11
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<220>
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<400> 6135

Ala Gln Pro Gln Tyr Ala Lys Ile Ser Ala Gln
1 5 10

<210> 6136
<211> 11
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<400> 6136

Ala Gln Leu Ala Thr Asp Asn Lys Ser Ala Gln
1 5 10

<210> 6137
<211> 11
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<400> 6137

Ala Gln Leu Ser Val Val Ile Thr Ser Ala Gln
1 5 10

<210> 6138
<211> 11
<212> PRT
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<220>
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<400> 6138

Ala Gln Asn Val Pro Thr Ser Pro Arg Ala Gln
1   5   10

<210> 6139
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6139

Ala Gln Ala Arg Pro Asp Leu Lys Leu Ala Gln
1   5   10

<210> 6140
<211> 11
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<220>
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<400> 6140

Ala Gln Ser Ala Leu Ala Asn Thr Leu Ala Gln
1   5   10

<210> 6141
<211> 11
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<220>
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<400> 6141

Ala Gln Leu Met Asp Phe Ser Asn Pro Ala Gln
1   5   10

<210> 6142

<211> 11
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<220>
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<400> 6142

Ala Gln Pro Arg Thr Glu Leu Ile Ser Ala Gln
1   5   10

<210> 6143
<211> 11
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<400> 6143

Ala Gln Thr Ser Asp Ile Lys Ser Lys Ala Gln
1   5   10

<210> 6144
<211> 11
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<400> 6144

Ala Gln Ser Asn Ala Thr Met Arg Phe Ala Gln
1   5   10

<210> 6145
<211> 11
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<400> 6145

Ala Gln Val Gln Ser Pro Ala Leu Gln Ala Gln
1   5   10

<210> 6146
<211> 11
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<220>
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<400> 6146

Ala Gln Thr Ala Asn Thr Thr Ser Arg Ala Gln
1   5   10

<210> 6147
<211> 11
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<400> 6147

Ala Gln Gln His Met Thr Ser Gln Ile Ala Gln
1   5   10

<210> 6148
<211> 11
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<400> 6148

Ala Gln Ser Asn Met Ser Leu Ser Ser Ala Gln
1   5   10

<210> 6149
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<400> 6149

Ala Gln Ile Thr Gly Ile Pro Thr Ser Ala Gln
1 5 10

<210> 6150
<211> 11
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<220>
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<400> 6150

Ala Gln Phe Thr Asn Asn Val Arg Asp Ala Gln
1 5 10

<210> 6151
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6151

Ala Gln Asn Ser Asn Ala Gly Gly Lys Ala Gln
1 5 10

<210> 6152
<211> 11
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<400> 6152

Ala Gln Tyr Asn Thr Asp Ile Thr Lys Ala Gln
1 5 10

<210> 6153
<211> 11
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<400> 6153

Ala Gln Phe Ser Asn Pro Asp Lys Met Ala Gln
1   5   10

<210> 6154
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<220>
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<400> 6154

Ala Gln Leu Met Thr Thr Ser Thr Ile Ala Gln
1   5   10

<210> 6155
<211> 11
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<220>
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<400> 6155

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

<210> 6156
<211> 11
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<220>
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<400> 6156

Ala Gln Ser Asn Tyr Thr Lys Ile Ile Ala Gln
1   5   10

<210> 6157
<211> 11
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<400> 6157

Ala Gln Ser Ala Gly Leu Ile Ser Ser Ala Gln
1 5 10

<210> 6158
<211> 11
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<400> 6158

Ala Gln Lys Gln Gly Pro Met Leu Ser Ala Gln
1 5 10

<210> 6159
<211> 11
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<400> 6159

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

<210> 6160
<211> 11
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<400> 6160

Ala Gln Thr Pro Asp His Arg Glu Arg Ala Gln
1 5 10

<210> 6161
<211> 11
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<220>
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<400> 6161

Ala Gln Met Asn Ala Thr Val Pro Ser Ala Gln
1   5   10

<210> 6162
<211> 11
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<400> 6162

Ala Gln Leu His Ser Met Leu Ala Pro Ala Gln
1   5   10

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<400> 6163

Ala Gln Asp Met His His Ser Gln Pro Ala Gln
1   5   10

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<400> 6164

Ala Gln Lys Pro Leu Pro Thr Thr Tyr Ala Gln

1 5 10

<210> 6165
<211> 11
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<400> 6165

Ala Gln Ala Met Gln Val Thr Leu Ser Ala Gln
1 5 10

<210> 6166
<211> 11
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<400> 6166

Ala Gln Ser Pro Thr His Asp Ala Arg Ala Gln
1 5 10

<210> 6167
<211> 11
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<400> 6167

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

<210> 6168
<211> 11
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<220>
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<400> 6168

Ala Gln Pro Ser Arg Val Pro Thr Gln Ala Gln
1 5 10

<210> 6169
<211> 11
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<400> 6169

Ala Gln Gly Ser Leu Gly Leu Gly Lys Ala Gln
1 5 10

<210> 6170
<211> 11
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<400> 6170

Ala Gln His Ser Ser Tyr Ser Ser Lys Ala Gln
1 5 10

<210> 6171
<211> 11
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<400> 6171

Ala Gln Pro Asn Pro Ser Asn Pro Ser Ala Gln
1 5 10

<210> 6172
<211> 11
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<400> 6172

Ala Gln Thr Lys Asn Gly Val Ala Gln Ala Gln
1   5   10

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Ala Gln Arg Ser Thr His Glu Asn Thr Ala Gln
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Ala Gln Ser Gly His Asp Arg Asp Ala Ala Gln
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<400> 6176

Ala Gln Asn Thr Gln Ser Tyr Thr Ser Ala Gln
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Ala Gln Asp Arg Val Pro His Leu Arg Ala Gln
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<400> 6178

Ala Gln Asn Asn Pro Pro His Met Arg Ala Gln
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Ala Gln Arg Ser Leu Gln Ser Gln Phe Ala Gln
1   5   10

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<400> 6180

Ala Gln Ile Arg Asp Asp Arg Ser Leu Ala Gln
1 5 10

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Ala Gln Met Leu Ser Ala Pro Leu Pro Ala Gln
1 5 10

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Ala Gln Thr Ser Ser Ile Leu Thr Thr Ala Gln
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<400> 6183

Ala Gln Arg Glu Gln Met Asn Leu Val Ala Gln
1   5   10

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<400> 6184

Ala Gln Lys Thr Gln Ser Leu Ser Asn Ala Gln
1   5   10

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<400> 6185

Ala Gln Leu Lys Thr Ala Glu Tyr Thr Ala Gln
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<400> 6186

Ala Gln Ser Ser Glu Lys Pro Phe Arg Ala Gln
1   5   10

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<400> 6187

Ala Gln Pro Thr Ser Gly Val Phe Gly Ala Gln
1 5 10

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<400> 6188

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

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<400> 6189

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

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<400> 6190

Ala Gln Asn Thr Ile Thr Met Ala Lys Ala Gln
1 5 10

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<400> 6191

Ala Gln Arg Asn Gln Pro Val Pro Ser Ala Gln
1   5   10

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<400> 6192

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

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<400> 6193

Ala Gln Tyr Asn Leu Thr Met Val Ser Ala Gln
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<400> 6194

Ala Gln Thr Ala Asp Ser His Pro Arg Ala Gln
1   5   10

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<400> 6195

Ala Gln Leu Leu Gly Glu Lys Val Met Ala Gln
1 5 10

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<400> 6196

Ala Gln Trp Asp Leu Thr Ala Pro Gln Ala Gln
1 5 10

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<400> 6197

Ala Gln Val Leu Ala Asp Arg Leu Pro Ala Gln
1 5 10

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<400> 6198

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

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<400> 6199

Ala Gln Ser Ser Leu Asn Met Pro Arg Ala Gln
1   5   10

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Ala Gln Gln Lys Val Ser Ile Leu Ala Ala Gln
1   5   10

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<400> 6201

Ala Gln Arg Gly Asp Asn Ser Arg Leu Ala Gln
1   5   10

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<400> 6202

Ala Gln Arg Ile Asp Leu Gly Ser Gln Ala Gln
1   5   10

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<400> 6203

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

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<400> 6204

Ala Gln Ser Met Gln Asn Gly Leu Arg Ala Gln
1   5   10

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<400> 6205

Ala Gln Thr Leu Ala Val Gly Ile Ala Ala Gln
1   5   10

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<400> 6206

Ala Gln Gly Gln Thr Val Thr Gly Ala Ala Gln
1 5 10

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<400> 6207

Ala Gln His Ala Leu Ser Pro Ser Pro Ala Gln
1 5 10

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<400> 6208

Ala Gln Val Ser Ser Val Phe Thr Glu Ala Gln
1 5 10

<210> 6209
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<400> 6209

Ala Gln Tyr Gly Ala Gly Ala Val Lys Ala Gln
1 5 10

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<400> 6210

Ala Gln Lys Glu Thr Leu Pro Asn Ala Ala Gln
1 5 10

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<400> 6211

Ala Gln Ile Pro Ser Gln Thr Pro Leu Ala Gln
1 5 10

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<400> 6212

Ala Gln Ser Ala Ile Ser Thr Phe Val Ala Gln
1 5 10

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<400> 6213

Ala Gln Val Asn Ser Thr Ser Ser Thr Ala Gln
1 5 10

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<400> 6214

Ala Gln Pro Thr Arg Asp Tyr Lys Glu Ala Gln
1   5   10

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<400> 6215

Ala Gln Asn Asn Pro Ala Ser Thr Gln Ala Gln
1   5   10

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<400> 6216

Ala Gln Val Thr Gln Thr Ser Val Asn Ala Gln
1   5   10

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<400> 6217

Ala Gln Trp Ala Gly Thr Thr Ser His Ala Gln

1 5 10

<210> 6218
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<400> 6218

Ala Gln Val Thr Ala Gly Phe Ser Ala Ala Gln
1 5 10

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<400> 6219

Ala Gln Leu His Ser Pro Ser Met Gln Ala Gln
1 5 10

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<400> 6220

Ala Gln Phe Pro Thr Gln Pro Ser Met Ala Gln
1 5 10

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<400> 6221

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

<210> 6222
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<400> 6222

Ala Gln Val Ala Ser Thr Thr Tyr Thr Ala Gln
1 5 10

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<400> 6223

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

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<400> 6224

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

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<400> 6225

Ala Gln Ser Asn Arg Lys Ile Asp Asp Ala Gln
1   5   10

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<400> 6226

Ala Gln Ser Pro Asn Asn Arg Ala Val Ala Gln
1   5   10

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<400> 6227

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

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<400> 6228

Ala Gln Leu Leu Ala Thr Gly Leu Lys Ala Gln
1   5   10

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<400> 6229

Ala Gln Val His Leu Arg Ser Gln Ile Ala Gln
1   5   10

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<400> 6230

Ala Gln Ser Ala Asn Ser Asn Leu Lys Ala Gln
1   5   10

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<400> 6231

Ala Gln Ser Lys Ala Gly Glu Gly Asn Ala Gln
1   5   10

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<400> 6232

Ala Gln Val Ser Asn Pro Ala Met Lys Ala Gln
1   5   10

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<400> 6233

Ala Gln Ile Asn Gly Asn Asn Gln Arg Ala Gln
1   5   10

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<400> 6234

Ala Gln Tyr Lys Ser Thr Thr Leu Ser Ala Gln
1   5   10

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<400> 6235

Ala Gln Lys Glu Gly Leu Val Ser Arg Ala Gln
1   5   10

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<400> 6236

Ala Gln His Leu Lys Val Met Thr Ile Ala Gln
1   5   10

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<400> 6237

Ala Gln Arg Thr Asn Asp His Ser Ser Ala Gln
1   5   10

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<400> 6238

Ala Gln Leu Pro Ser Gln Ser Ala Lys Ala Gln
1   5   10

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<400> 6239

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

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<400> 6240

Ala Gln Gln Met Ile Ala Asn Ile Pro Ala Gln
1 5 10

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<400> 6241

Ala Gln Ser Ser Ser Thr Asp Gln His Ala Gln
1 5 10

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<211> 11
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<400> 6242

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

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<400> 6243

Ala Gln Gln His Ala Ser Ile Ser Ala Ala Gln
1 5 10

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<400> 6244

Ala Gln Asn Ile Ser Ser Met Gln Met Ala Gln
1   5   10

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<400> 6245

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

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<400> 6246

Ala Gln Ser Lys Gly Asp Thr Ser Ala Ala Gln
1   5   10

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<400> 6247

Ala Gln Leu Leu Asn Thr Gly Thr Lys Ala Gln
1   5   10

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<400> 6248

Ala Gln Gly Thr Gly Ala Ser Met Asn Ala Gln
1 5 10

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<400> 6249

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

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<400> 6250

Ala Gln Leu Pro Glu Arg Pro Asn Ser Ala Gln
1 5 10

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<400> 6251

Ala Gln Ala Arg Glu Ile Leu Asn His Ala Gln
1 5 10

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<400> 6252

Ala Gln Asn Phe Lys Thr Thr Asn Ser Ala Gln
1   5   10

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<400> 6253

Ala Gln Gly Arg Thr Val Gln Asp Arg Ala Gln
1   5   10

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<400> 6254

Ala Gln Gly Met Asn Gln Thr Thr Thr Ala Gln
1   5   10

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<400> 6255

Ala Gln Val Gly Lys Asp Gly Val Leu Ala Gln
1   5   10

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<400> 6256

Ala Gln Val Thr Arg Asp Gly Ala Lys Ala Gln
1   5   10

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<400> 6257

Ala Gln Gly Thr Ala Thr Tyr Gly Lys Ala Gln
1   5   10

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<400> 6258

Ala Gln Met Leu Gly Ala Glu Gly Tyr Ala Gln
1   5   10

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<400> 6259

Ala Gln Val Thr Gln Gln Asn His His Ala Gln
1   5   10

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<400> 6260

Ala Gln Thr Val Asn Ala Asp Gln Leu Ala Gln
1   5   10

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<400> 6261

Ala Gln Gln Met Gln Asn Ser Pro Ile Ala Gln
1   5   10

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<400> 6262

Ala Gln Gly Thr Leu Ala Ser Ser Lys Ala Gln
1   5   10

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<400> 6263

Ala Gln Ser Asn Val Thr Ile Ala His Ala Gln
1 5 10

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<400> 6264

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

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<400> 6265

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

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<211> 11
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<400> 6266

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

<210> 6267
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<400> 6267

Ala Gln Leu Thr Asn Leu Val Ser Arg Ala Gln
1   5   10

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<400> 6268

Ala Gln Ala Gly Gln His Leu Ala Leu Ala Gln
1   5   10

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<400> 6269

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

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<400> 6270

Ala Gln Glu Thr Val Ser Thr Ser Leu Ala Gln

1 5 10

<210> 6271
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<400> 6271

Ala Gln Ile Leu Ala Ala Leu Thr Gly Ala Gln
1 5 10

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<400> 6272

Ala Gln Thr Thr Asp Lys Ala Ala Leu Ala Gln
1 5 10

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<400> 6273

Ala Gln Tyr Leu Asp Lys Pro Gly Ala Ala Gln
1 5 10

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<400> 6274

Ala Gln Pro Asn Leu Ser Asn Leu Met Ala Gln
1 5 10

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<400> 6275

Ala Gln Ile Asn Ala Pro Thr Ala Ser Ala Gln
1 5 10

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<400> 6276

Ala Gln His Gly Gly Thr Ser Leu Ala Ala Gln
1 5 10

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<400> 6277

Ala Gln Asn Ile Gln Leu Ser Leu Ala Ala Gln
1 5 10

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<400> 6278

Ala Gln Thr Leu His Met Ser Ser Lys Ala Gln
1   5   10

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<400> 6279

Ala Gln Ala Ile Ile Asn Pro His Ser Ala Gln
1   5   10

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<400> 6280

Ala Gln Asn Thr Leu Ile Asn Val Ser Ala Gln
1   5   10

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<400> 6281

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

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<400> 6282

Ala Gln Asn Met Ala Ser Leu Ser Ala Ala Gln
1   5   10

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<400> 6283

Ala Gln Ser Ser Thr His Leu Leu Ala Ala Gln
1   5   10

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<400> 6284

Ala Gln Asp Asn Ser Gln Ser Asp Lys Ala Gln
1   5   10

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<400> 6285

Ala Gln Gly Ile Thr Thr Asn Ala His Ala Gln
1   5   10

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<400> 6286

Ala Gln Ser Ser Thr Ile Asn Gly Tyr Ala Gln
1   5   10

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<400> 6287

Ala Gln Asn His Thr Arg Met Asn Glu Ala Gln
1   5   10

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<400> 6288

Ala Gln Gly Asn Gln Gln Lys Asn Leu Ala Gln
1   5   10

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<400> 6289

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

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<400> 6290

Ala Gln Ser Asp Ser Glu Tyr Lys Pro Ala Gln
1   5   10

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<400> 6291

Ala Gln Thr Ala Ala His Val Ser Tyr Ala Gln
1   5   10

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<400> 6292

Ala Gln Met Ala Thr Thr His Ala Ala Ala Gln
1   5   10

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<400> 6293

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

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<400> 6294

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

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<400> 6295

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

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<400> 6296

Ala Gln Ser His Glu Ala Lys Asn Pro Ala Gln
1 5 10

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<400> 6297

Ala Gln Pro Tyr Ser Thr Ala Asp Arg Ala Gln
1   5   10

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<400> 6298

Ala Gln Met Leu Ser Asn Thr Asn His Ala Gln
1   5   10

<210> 6299
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<220>
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<400> 6299

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

<210> 6300
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<400> 6300

Ala Gln Asn Ala Met Asn Met Pro Val Ala Gln
1   5   10

<210> 6301

<211> 11
<212> PRT
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<220>
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<400> 6301

Ala Gln Met Leu Gly His Ile Ala Asn Ala Gln
1 5 10

<210> 6302
<211> 11
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<400> 6302

Ala Gln Lys Gly Gln Thr Val Ser Glu Ala Gln
1 5 10

<210> 6303
<211> 11
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<220>
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<400> 6303

Ala Gln Met Asp Asn Arg Asn Asn Trp Ala Gln
1 5 10

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<400> 6304

Ala Gln Leu Leu His Arg Asn Asp Val Ala Gln
1 5 10

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<400> 6305

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

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<400> 6306

Ala Gln Ser Leu Thr Arg Asp Leu Lys Ala Gln
1   5   10

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<400> 6307

Ala Gln Gly Gly Gln Ile Val Ser Arg Ala Gln
1   5   10

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<400> 6308

Ala Gln Asn Tyr Thr Pro Asp Lys Arg Ala Gln
1 5 10

<210> 6309
<211> 11
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<400> 6309

Ala Gln Leu Tyr Ala Asn His His Ser Ala Gln
1 5 10

<210> 6310
<211> 11
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<220>
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<400> 6310

Ala Gln Glu Ser Val Ala Gly His Met Ala Gln
1 5 10

<210> 6311
<211> 11
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<400> 6311

Ala Gln Glu Pro Arg Gln Asp Ala His Ala Gln
1 5 10

<210> 6312
<211> 11
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<400> 6312

Ala Gln Ser Val Gly Gly Thr Thr Gln Ala Gln
1 5 10

<210> 6313
<211> 11
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<400> 6313

Ala Gln Gln Pro Ala Met Phe Asn Gly Ala Gln
1 5 10

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<400> 6314

Ala Gln Val Lys Gln Thr Val Met Ser Ala Gln
1 5 10

<210> 6315
<211> 11
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<400> 6315

Ala Gln Leu Tyr Glu Gln Ala Ser Lys Ala Gln
1 5 10

<210> 6316
<211> 11
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<400> 6316

Ala Gln Ile Asn Ala Ala Ile Ala Leu Ala Gln
1 5 10

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<400> 6317

Ala Gln Leu Glu Leu Ser His Ser Arg Ala Gln
1 5 10

<210> 6318
<211> 11
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<400> 6318

Ala Gln Ser Val Lys Ser Ile Met Asn Ala Gln
1 5 10

<210> 6319
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<400> 6319

Ala Gln Val Pro Asn Arg Glu Pro Lys Ala Gln
1 5 10

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<211> 11
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<400> 6320

Ala Gln Ile Ala Ser Leu Leu Ser Arg Ala Gln
1   5   10

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<400> 6321

Ala Gln Ala Asn Asn Val Ala Asp Arg Ala Gln
1   5   10

<210> 6322
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<400> 6322

Ala Gln Ser Val Asp Arg Ala Glu Arg Ala Gln
1   5   10

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<211> 11
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<400> 6323

Ala Gln Val Leu Ala Asp Arg Val Pro Ala Gln

1 5 10

<210> 6324
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<400> 6324

Ala Gln Arg Thr Asp Ser Ser His Pro Ala Gln
1 5 10

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<400> 6325

Ala Gln Ile Leu Gly Thr Gly Gly Gln Ala Gln
1 5 10

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<400> 6326

Ala Gln Ser Thr Ala Gln Ala Ser Tyr Ala Gln
1 5 10

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<400> 6327

Ala Gln Val Gly Pro Ile Asn Thr Val Ala Gln
1 5 10

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<400> 6328

Ala Gln Gln Thr Asn Asn Thr Val Arg Ala Gln
1 5 10

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<400> 6329

Ala Gln Gly Asn Ala Val Arg Ser Thr Ala Gln
1 5 10

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<400> 6330

Ala Gln Gln Asn Leu Thr Lys Gly Gln Ala Gln
1 5 10

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<211> 11
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<400> 6331

Ala Gln Lys Gln Leu Ser Lys Asp Tyr Ala Gln
1   5   10

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<400> 6332

Ala Gln Met Val Gln Asn Gly Leu Ile Ala Gln
1   5   10

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<400> 6333

Ala Gln Ile Val Glu His Met Pro Leu Ala Gln
1   5   10

<210> 6334
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<400> 6334

Ala Gln Tyr Asp Thr Thr Ser Ile Phe Ala Gln
1   5   10

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<400> 6335

Ala Gln Asn Ser Ile Ser Ser Ser Ala Ala Gln
1   5   10

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<400> 6336

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

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<400> 6337

Ala Gln Ile Ser Gly Ala Ser Leu Met Ala Gln
1   5   10

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<400> 6338

Ala Gln Ala Thr Leu Ser Arg Asn Val Ala Gln
1   5   10

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<400> 6339

Ala Gln Leu Ala Asn Asn Val Pro Leu Ala Gln
1   5   10

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<400> 6340

Ala Gln Trp Ser Asp Pro Ser Asp Leu Ala Gln
1   5   10

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<400> 6341

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

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<400> 6342

Ala Gln Tyr Val Pro Asp His Thr Arg Ala Gln
1 5 10

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<400> 6343

Ala Gln Asn Asn Thr Glu Gly Lys Ala Ala Gln
1 5 10

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<400> 6344

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

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<400> 6345

Ala Gln Ile Ala Gln Ser Asn Thr Leu Ala Gln
1 5 10

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<400> 6346

Ala Gln His Asp Asn Ala Thr Lys Tyr Ala Gln
1 5 10

<210> 6347
<211> 11
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<220>
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<400> 6347

Ala Gln Thr Lys Ala Asn Glu Met Gln Ala Gln
1 5 10

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<211> 11
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<400> 6348

Ala Gln Tyr Leu Gly Thr Val Val Ala Ala Gln
1 5 10

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<211> 11
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<400> 6349

Ala Gln Pro Ser Ile Glu Leu Lys Pro Ala Gln
1 5 10

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<400> 6350

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

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<220>
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<400> 6351

Ala Gln Thr Ser Val Ala Asn Leu Arg Ala Gln
1   5   10

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<400> 6352

Ala Gln Phe Ser Arg Glu Pro Lys Pro Ala Gln
1   5   10

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<400> 6353

Ala Gln Thr Pro Arg Glu Asn Trp Gly Ala Gln
1   5   10

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<400> 6354

Ala Gln Ser Gln Asn Val Gly Thr Lys Ala Gln
1 5 10

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<220>
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<400> 6355

Ala Gln Tyr Leu Asp Lys Gly Arg Thr Ala Gln
1 5 10

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<400> 6356

Ala Gln Thr Ser Thr Thr Pro Phe Leu Ala Gln
1 5 10

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<400> 6357

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

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<400> 6358

Ala Gln Ile Ser Asp Ser Arg Val His Ala Gln
1 5 10

<210> 6359
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<400> 6359

Ala Gln Ser Gln Ser Ser His Tyr Lys Ala Gln
1 5 10

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<400> 6360

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

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<400> 6361

Ala Gln Met Ala Leu Asp Asn Ser Arg Ala Gln
1 5 10

<210> 6362
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<220>
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<400> 6362

Ala Gln Leu Ile Gln Ser Met Ala Lys Ala Gln
1 5 10

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<400> 6363

Ala Gln Ala Gly Glu Pro Asn Ser Arg Ala Gln
1 5 10

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<400> 6364

Ala Gln Ser Asn Gln Ser Thr Val Arg Ala Gln
1 5 10

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<220>

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<400> 6365

Ala Gln Thr Ser Asn Leu Ser Glu Arg Ala Gln
1   5   10

<210> 6366
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<400> 6366

Ala Gln Ser Asn Ser Thr Ser Arg Ala Ala Gln
1   5   10

<210> 6367
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<400> 6367

Ala Gln Met Gln Gln Gln Phe Pro Ser Ala Gln
1   5   10

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<400> 6368

Ala Gln Phe Asn Thr Leu Ala Glu Val Ala Gln
1   5   10

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<400> 6369

Ala Gln Pro Gly Val Thr Val Ile Ser Ala Gln
1 5 10

<210> 6370
<211> 11
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<400> 6370

Ala Gln Leu Gln Asn Val His Asp Ser Ala Gln
1 5 10

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<400> 6371

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

<210> 6372
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<400> 6372

Ala Gln Asn Glu Gly Val Arg Pro Leu Ala Gln
1 5 10

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<400> 6373

Ala Gln Ser Val Asn Pro Ser Val Val Ala Gln
1   5   10

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<400> 6374

Ala Gln Met Ser Thr Thr Ser Glu Asp Ala Gln
1   5   10

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<400> 6375

Ala Gln Ile His Ser Gly Leu Pro Lys Ala Gln
1   5   10

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<400> 6376

Ala Gln Gly Met Asn Gly Tyr Pro Lys Ala Gln

1 5 10

<210> 6377
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<400> 6377

Ala Gln Ser Ile Arg Asp Ser Val Lys Ala Gln
1 5 10

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<400> 6378

Ala Gln Met Leu Lys Pro Asp Asn Val Ala Gln
1 5 10

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<400> 6379

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

<210> 6380
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<400> 6380

Ala Gln Met Leu Asp Lys Ser Ser Ser Ala Gln
1 5 10

<210> 6381
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<400> 6381

Ala Gln Lys Thr Gln Asn Thr Gln Met Ala Gln
1 5 10

<210> 6382
<211> 11
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<220>
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<400> 6382

Ala Gln Gly Thr Thr Ser Ser Met Ala Ala Gln
1 5 10

<210> 6383
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<220>
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<400> 6383

Ala Gln Gly Ser Ala Ala Ser Gln Ala Ala Gln
1 5 10

<210> 6384
<211> 11
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<220>
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<400> 6384

Ala Gln Ala His Ser Asn Ile Asp Ser Ala Gln
1   5   10

<210> 6385
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<400> 6385

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

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<400> 6386

Ala Gln Leu Ser Pro Asn Ser Ser Phe Ala Gln
1   5   10

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<211> 11
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<400> 6387

Ala Gln Gly His Ser Val Thr Pro Ser Ala Gln
1   5   10

<210> 6388
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<400> 6388

Ala Gln Lys Gly Gly Asn Ser Ile Asp Ala Gln
1   5   10

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<400> 6389

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

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<400> 6390

Ala Gln Gln Leu Pro Met Leu Asn Ala Ala Gln
1   5   10

<210> 6391
<211> 11
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<213> Artificial Sequence

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<400> 6391

Ala Gln Ala Thr Asn Ile Leu Thr Ala Ala Gln
1   5   10

<210> 6392
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<400> 6392

Ala Gln Leu Met Gln Asn Gly Gln Lys Ala Gln
1   5   10

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<400> 6393

Ala Gln His Asn Asn Gly Gln Ala Leu Ala Gln
1   5   10

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<400> 6394

Ala Gln Ser Ile Thr Gln Thr Leu Ser Ala Gln
1   5   10

<210> 6395
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<400> 6395

Ala Gln Gly Asn Arg Ile Ser Asn Thr Ala Gln
1   5   10

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<213> Artificial Sequence

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<400> 6396

Ala Gln Gly Pro Gln Asn Asp Pro Pro Ala Gln
1   5   10

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<400> 6397

Ala Gln Ile Asn Gly Met Gly Pro Asn Ala Gln
1   5   10

<210> 6398
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<400> 6398

Ala Gln Thr Gly Asn Ala His Pro Asn Ala Gln
1   5   10

<210> 6399
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<400> 6399

Ala Gln Tyr Ala Val Asn Leu Asn Asn Ala Gln
1 5 10

<210> 6400
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<220>
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<400> 6400

Ala Gln Ala Leu Ile Ser Asn Ser Thr Ala Gln
1 5 10

<210> 6401
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<400> 6401

Ala Gln Ser His Val Ser Thr Thr Met Ala Gln
1 5 10

<210> 6402
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<220>
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<400> 6402

Ala Gln Leu Asp Asp Phe Val Arg Pro Ala Gln
1 5 10

<210> 6403
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<400> 6403

Ala Gln Asn Asn Thr Ala Arg Ser Val Ala Gln
1   5   10

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<400> 6404

Ala Gln Asn Lys Tyr Pro Gln Pro Ser Ala Gln
1   5   10

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<400> 6405

Ala Gln Tyr Ala Ser Glu Leu Phe Val Ala Gln
1   5   10

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<400> 6406

Ala Gln Phe Tyr Thr Ala Asn Ala Ser Ala Gln
1   5   10

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<400> 6407

Ala Gln Phe Thr Lys Ser Asn Ala Thr Ala Gln
1 5 10

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<400> 6408

Ala Gln Leu Ala Val Ser Gln Met Arg Ala Gln
1 5 10

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<400> 6409

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

<210> 6410
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<400> 6410

Ala Gln Asp Thr Ala Asn Thr Ala Arg Ala Gln
1 5 10

<210> 6411
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<400> 6411

Ala Gln Lys Pro Thr Glu Val Gln His Ala Gln
1   5   10

<210> 6412
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<400> 6412

Ala Gln Leu Thr Asn Ala Ala Thr Tyr Ala Gln
1   5   10

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<400> 6413

Ala Gln Ile Ser Asn Val Gln Ala Asn Ala Gln
1   5   10

<210> 6414
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<400> 6414

Ala Gln Glu Ser Arg Asn Asn Gly Phe Ala Gln
1   5   10

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<400> 6415

Ala Gln Ser Thr Gly Pro Thr Met His Ala Gln
1   5   10

<210> 6416
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<400> 6416

Ala Gln Thr Pro Gly Glu Ser His Lys Ala Gln
1   5   10

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<400> 6417

Ala Gln Ser Val Ser Ile Ala Ser Ser Ala Gln
1   5   10

<210> 6418
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<400> 6418

Ala Gln Asn Gly Val Thr Gln Ser Lys Ala Gln
1   5   10

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<400> 6419

Ala Gln Ala Lys Asn Thr Tyr Ala Ser Ala Gln
1   5   10

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<400> 6420

Ala Gln Gly Thr Ser Asp Gly His Arg Ala Gln
1   5   10

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<400> 6421

Ala Gln Trp Ser Gln Asn Lys Gly Tyr Ala Gln
1   5   10

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<400> 6422

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

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<400> 6423

Ala Gln Ile Gly Gly Gly Ala Gln Lys Ala Gln
1 5 10

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<400> 6424

Ala Gln Ala Gly Asn Ala Ser His Thr Ala Gln
1 5 10

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<211> 11
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<400> 6425

Ala Gln Phe Asn Gln Val Gly Lys Met Ala Gln
1 5 10

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<400> 6426

Ala Gln Thr Arg Asp Thr Leu Tyr Lys Ala Gln
1   5   10

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<400> 6427

Ala Gln Asn Gly Ser Pro Ser Tyr Asn Ala Gln
1   5   10

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<400> 6428

Ala Gln Leu Ala Glu Ala His Ala Arg Ala Gln
1   5   10

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<400> 6429

Ala Gln Pro Met Ser Asn Ser Glu Arg Ala Gln

1 5 10

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<400> 6430

Ala Gln His Val Thr Ser Leu Asn Asp Ala Gln
1 5 10

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<400> 6431

Ala Gln Gly Ala Pro His Val Ser Arg Ala Gln
1 5 10

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<400> 6432

Ala Gln Asn Thr Asn Gly Asn Ser Ala Ala Gln
1 5 10

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<400> 6433

Ala Gln Asn Glu Leu Thr Gly Met Leu Ala Gln
1 5 10

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<400> 6434

Ala Gln Ser Ser Leu Leu Pro Ala Ala Ala Gln
1 5 10

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<400> 6435

Ala Gln Pro Val Gly Gln Ser Leu Thr Ala Gln
1 5 10

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<400> 6436

Ala Gln Leu Thr Ala Ala Lys Gly Leu Ala Gln
1 5 10

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<400> 6437

Ala Gln Leu Ile Gly Arg Leu Thr Ser Ala Gln
1   5   10

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<400> 6438

Ala Gln Ala Lys His Asn Asp Asn Ile Ala Gln
1   5   10

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<400> 6439

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

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<400> 6440

Ala Gln Pro Gln Asn Ser Thr Thr Ala Ala Gln
1   5   10

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<400> 6441

Ala Gln Leu Ala Thr Gly Pro Leu Phe Ala Gln
1   5   10

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<400> 6442

Ala Gln Ala Ser Ala Val Ser Gln Lys Ala Gln
1   5   10

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<400> 6443

Ala Gln Ala Pro Val Ser Ser Ala Leu Ala Gln
1   5   10

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<400> 6444

Ala Gln Thr Met Pro Ser Leu Asp Ser Ala Gln
1   5   10

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<400> 6445

Ala Gln His Met Asn Phe Pro Asn Pro Ala Gln
1   5   10

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<400> 6446

Ala Gln Ala Ser Ala Arg Met Asp Ala Ala Gln
1   5   10

<210> 6447
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<400> 6447

Ala Gln Thr Val Ile Val Gly Gly Arg Ala Gln
1   5   10

<210> 6448
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<400> 6448

Ala Gln Ser Ser Gln Ser Gln Thr Val Ala Gln
1   5   10

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<400> 6449

Ala Gln Ile Asn Thr Thr Ser Gln Lys Ala Gln
1   5   10

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<400> 6450

Ala Gln Ala Gly Ala Arg Val Thr Glu Ala Gln
1   5   10

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<400> 6451

Ala Gln Pro Ala Pro His Ser Gly Ser Ala Gln
1   5   10

<210> 6452
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<400> 6452

Ala Gln Leu Asn Val Met Tyr Asn Pro Ala Gln
1 5 10

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<400> 6453

Ala Gln Gly His Ala Gln Thr Leu Tyr Ala Gln
1 5 10

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<400> 6454

Ala Gln Thr Pro Asn Leu Ser Thr His Ala Gln
1 5 10

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Ala Gln Ser Ala Glu Arg Thr Asn Val Ala Gln
1 5 10

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<400> 6456

Ala Gln Asn Asn Leu Arg Pro Val Tyr Ala Gln
1   5   10

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<400> 6457

Ala Gln Asn Gln Gln Ser Ala Tyr Thr Ala Gln
1   5   10

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<400> 6458

Ala Gln Val Val Asp Gly Lys Thr Gln Ala Gln
1   5   10

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<400> 6459

Ala Gln Pro Leu Pro Gln Gln Leu Asp Ala Gln
1   5   10

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<400> 6460

Ala Gln Val Ala Glu Ile Val Gln Leu Ala Gln
1 5 10

<210> 6461
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<400> 6461

Ala Gln Asp Arg Asn Thr Thr Val Arg Ala Gln
1 5 10

<210> 6462
<211> 11
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<400> 6462

Ala Gln Asn Met Met Lys Thr Gly Met Ala Gln
1 5 10

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<400> 6463

Ala Gln Val Gln Phe Asn Thr Ser Lys Ala Gln
1 5 10

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<400> 6464

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

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<400> 6465

Ala Gln Leu Gly Gly Ile Leu Ser Ala Ala Gln
1   5   10

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<400> 6466

Ala Gln Gln Thr Asp His Ser His Leu Ala Gln
1   5   10

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<400> 6467

Ala Gln Thr Leu His Ala Glu Phe Ser Ala Gln
1 5 10

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<400> 6468

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

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<400> 6469

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

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<400> 6470

Ala Gln Thr Leu Asn Ser Thr Ala Ser Ala Gln
1 5 10

<210> 6471
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<400> 6471

Ala Gln Ser Gly Arg Val Val Ala Gln Ala Gln
1   5   10

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<400> 6472

Ala Gln Asn Asn Arg Thr Thr Asn Asn Ala Gln
1   5   10

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<400> 6473

Ala Gln Asn Val Pro Ser Ser Thr Tyr Ala Gln
1   5   10

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<400> 6474

Ala Gln Val Pro Ser Thr Ala Leu Lys Ala Gln
1   5   10

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<400> 6475

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

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<400> 6476

Ala Gln Thr Asn Thr Thr Arg Ala Met Ala Gln
1 5 10

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<400> 6477

Ala Gln Ser Asn Arg Thr Val Arg Glu Ala Gln
1 5 10

<210> 6478
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<400> 6478

Ala Gln Ala Ser Thr Gln Ile Met Arg Ala Gln
1 5 10

<210> 6479
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<400> 6479

Ala Gln Thr Val Ile Ser Ser Ser Arg Ala Gln
1   5   10

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<400> 6480

Ala Gln Val Tyr Ser Pro Gln Gly Thr Ala Gln
1   5   10

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<400> 6481

Ala Gln Gly Ser Pro Thr Gln Ser Met Ala Gln
1   5   10

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<400> 6482

Ala Gln Ala Val Ser Ser Glu Ala Arg Ala Gln

1 5 10

<210> 6483
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<400> 6483

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

<210> 6484
<211> 11
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<400> 6484

Ala Gln Ser Ala Asn Thr Gly Thr Gly Ala Gln
1 5 10

<210> 6485
<211> 11
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<220>
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<400> 6485

Ala Gln Ile Val Gln Gly Thr Ser Met Ala Gln
1 5 10

<210> 6486
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<400> 6486

Ala Gln Thr Pro Ser Leu Gly Val Leu Ala Gln
1 5 10

<210> 6487
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<400> 6487

Ala Gln Pro Asn Met Met Gly Ser Ser Ala Gln
1 5 10

<210> 6488
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<400> 6488

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

<210> 6489
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<400> 6489

Ala Gln Lys Gly Ser Asn Ser Thr Leu Ala Gln
1 5 10

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<400> 6490

Ala Gln Pro Met Ala Ala Ala Pro Arg Ala Gln
1   5   10

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<400> 6491

Ala Gln Val Thr Thr Gly Pro Ser Arg Ala Gln
1   5   10

<210> 6492
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<400> 6492

Ala Gln Val Val Ser Pro Leu Ser Tyr Ala Gln
1   5   10

<210> 6493
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<400> 6493

Ala Gln Val Thr Gly Ser Val Gln Lys Ala Gln
1   5   10

<210> 6494
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<400> 6494

Ala Gln Gly Gly Thr Thr Val Gln Thr Ala Gln
1   5   10

<210> 6495
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<400> 6495

Ala Gln Asn Ser Ala Gln Ile Asn Met Ala Gln
1   5   10

<210> 6496
<211> 11
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<400> 6496

Ala Gln Pro Gly Thr Gln Lys Pro Thr Ala Gln
1   5   10

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<400> 6497

Ala Gln Gly Lys Ala Ser His Tyr Pro Ala Gln
1   5   10

<210> 6498
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<400> 6498

Ala Gln Tyr Asn Ser Val Pro Ser Ala Ala Gln
1   5   10

<210> 6499
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<400> 6499

Ala Gln Val Tyr Glu Arg Val Ser His Ala Gln
1   5   10

<210> 6500
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<400> 6500

Ala Gln Asp Val Asn Asn Arg Ser Met Ala Gln
1   5   10

<210> 6501
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<400> 6501

Ala Gln Pro His Ala Val Ser Met Leu Ala Gln
1   5   10

<210> 6502
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<400> 6502

Ala Gln Gly Met Pro Ala Pro Leu Gly Ala Gln
1   5   10

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<400> 6503

Ala Gln Gln Leu Gln Ile Asn Pro Ala Ala Gln
1   5   10

<210> 6504
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<400> 6504

Ala Gln Thr Met Asp Leu Ser Pro Pro Ala Gln
1   5   10

<210> 6505
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<400> 6505

Ala Gln Thr Thr Asp Leu His Ala Lys Ala Gln
1 5 10

<210> 6506
<211> 11
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<400> 6506

Ala Gln His His Thr Thr Gln Thr Thr Ala Gln
1 5 10

<210> 6507
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<400> 6507

Ala Gln Pro Ser Ser Asn Ser Thr Asn Ala Gln
1 5 10

<210> 6508
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<400> 6508

Ala Gln Thr Arg Tyr Asn Val Asp Pro Ala Gln
1 5 10

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<400> 6509

Ala Gln Ser Val Val Ser Leu Ser Pro Ala Gln
1   5   10

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<400> 6510

Ala Gln Glu Lys Val Asp Gln Leu Arg Ala Gln
1   5   10

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<400> 6511

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

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<400> 6512

Ala Gln Thr Tyr Pro Ala Thr Ser Asp Ala Gln
1   5   10

<210> 6513

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<400> 6513

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

<210> 6514
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<400> 6514

Ala Gln Leu Glu Ser Ser Asn Ala Ile Ala Gln
1   5   10

<210> 6515
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<400> 6515

Ala Gln Ser Pro Thr Asn His Ala Pro Ala Gln
1   5   10

<210> 6516
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<400> 6516

Ala Gln Ala His Glu Gly Met Val Lys Ala Gln
1   5   10

<210> 6517
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<400> 6517

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

<210> 6518
<211> 11
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<400> 6518

Ala Gln Thr Ala Gly Gln Leu Thr Trp Ala Gln
1   5   10

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<400> 6519

Ala Gln Met Gly Met Asp Gly Gln Ile Ala Gln
1   5   10

<210> 6520
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<400> 6520

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

<210> 6521
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<400> 6521

Ala Gln Leu Asp Leu Ser Val Ser Arg Ala Gln
1   5   10

<210> 6522
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<400> 6522

Ala Gln Ser Gln His Pro Asn Met Thr Ala Gln
1   5   10

<210> 6523
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<400> 6523

Ala Gln Tyr His Glu Val Ser Glu His Ala Gln
1   5   10

<210> 6524
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<400> 6524

Ala Gln Met Arg Ser Pro Pro Pro Thr Ala Gln
1   5   10

<210> 6525
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<400> 6525

Ala Gln Gly Ser Gly Ser Ser Thr Ile Ala Gln
1   5   10

<210> 6526
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<400> 6526

Ala Gln Gly Gly Asp Ala Gly Arg Trp Ala Gln
1   5   10

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<400> 6527

Ala Gln Lys Ala Glu Ala Met Val Ile Ala Gln
1   5   10

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<400> 6528

Ala Gln Ala Asn Lys Asp Leu Gly Val Ala Gln
1 5 10

<210> 6529
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<400> 6529

Ala Gln Thr Ser Ser Glu Asn Arg Thr Ala Gln
1 5 10

<210> 6530
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<400> 6530

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

<210> 6531
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<400> 6531

Ala Gln Gly Ser Thr Val Val His Leu Ala Gln
1 5 10

<210> 6532
<211> 11
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<400> 6532

Ala Gln Thr Ala Val Val Val Pro Gln Ala Gln
1   5   10

<210> 6533
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<400> 6533

Ala Gln Ala Val Asn Ile Ala Asn Ala Ala Gln
1   5   10

<210> 6534
<211> 11
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<400> 6534

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

<210> 6535
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<400> 6535

Ala Gln His Thr Gly Glu Gly Lys Leu Ala Gln

1 5 10

<210> 6536
<211> 11
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<400> 6536

Ala Gln Ser Asn Gly Asn Asn Ile Arg Ala Gln
1 5 10

<210> 6537
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<400> 6537

Ala Gln Glu Val Thr Leu Met His Lys Ala Gln
1 5 10

<210> 6538
<211> 11
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<400> 6538

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

<210> 6539
<211> 11
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<400> 6539

Ala Gln Asp Ile Ser Gly Lys Ile Ala Ala Gln
1 5 10

<210> 6540
<211> 11
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<400> 6540

Ala Gln Ile Ser Pro Asn Val Tyr Ser Ala Gln
1 5 10

<210> 6541
<211> 11
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<400> 6541

Ala Gln Tyr Asn Lys Leu Val Asp Gly Ala Gln
1 5 10

<210> 6542
<211> 11
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<400> 6542

Ala Gln Phe His Thr His Pro Thr Ser Ala Gln
1 5 10

<210> 6543
<211> 11
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<400> 6543

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

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<400> 6544

Ala Gln Glu Leu Gly Arg Asn Gly Pro Ala Gln
1   5   10

<210> 6545
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<400> 6545

Ala Gln Val Asp Lys Val Glu Arg Leu Ala Gln
1   5   10

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<400> 6546

Ala Gln Thr Thr Thr Met Thr Pro Arg Ala Gln
1   5   10

<210> 6547
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<400> 6547

Ala Gln Leu Gln Gln Ile Pro Thr Pro Ala Gln
1   5   10

<210> 6548
<211> 11
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<400> 6548

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

<210> 6549
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<400> 6549

Ala Gln Asp Asp Arg Ser Val Arg Phe Ala Gln
1   5   10

<210> 6550
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<400> 6550

Ala Gln Leu Ala Thr Gln Asn Ala Ser Ala Gln
1   5   10

<210> 6551
<211> 11
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<400> 6551

Ala Gln Val Gly Thr His Ile His Ser Ala Gln
1   5   10

<210> 6552
<211> 11
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<213> Artificial Sequence

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<400> 6552

Ala Gln Ser Glu Arg Ser Ser Val Lys Ala Gln
1   5   10

<210> 6553
<211> 11
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<400> 6553

Ala Gln Gly Tyr Ala His Ser Met Ile Ala Gln
1   5   10

<210> 6554
<211> 11
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<400> 6554

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

<210> 6555
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<400> 6555

Ala Gln Leu Thr Tyr Val Ala Ser Ser Ala Gln
1   5   10

<210> 6556
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<400> 6556

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

<210> 6557
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<400> 6557

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

<210> 6558
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<400> 6558

Ala Gln Thr Lys Ile Asp Thr Val Arg Ala Gln
1 5 10

<210> 6559
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<400> 6559

Ala Gln Ser Gly Gly Thr Gln Ala Arg Ala Gln
1 5 10

<210> 6560
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<400> 6560

Ala Gln His Ser Thr Pro Leu Val Ser Ala Gln
1 5 10

<210> 6561
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<400> 6561

Ala Gln His Ser Gly Thr Asn Leu Arg Ala Gln
1 5 10

<210> 6562
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<400> 6562

Ala Gln Ala Gln Pro Arg Leu Val Thr Ala Gln
1   5   10

<210> 6563
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<400> 6563

Ala Gln Pro Leu Gly Ala His Gly Ser Ala Gln
1   5   10

<210> 6564
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<400> 6564

Ala Gln Ile Ser Asp Ala Ser Val Leu Ala Gln
1   5   10

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<400> 6565

Ala Gln Met Ser Val Gly Val Lys Thr Ala Gln
1   5   10

<210> 6566

<211> 11
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<400> 6566

Ala Gln Asn Ile Ala Glu Gly Leu Ser Ala Gln
1   5   10

<210> 6567
<211> 11
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<400> 6567

Ala Gln Ser Ser Asn Ser Asp Gly Ile Ala Gln
1   5   10

<210> 6568
<211> 11
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<220>
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<400> 6568

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

<210> 6569
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<400> 6569

Ala Gln Glu Ser Lys Arg Pro Phe Leu Ala Gln
1   5   10

<210> 6570
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<400> 6570

Ala Gln Ser Gln Glu Asn Ser Arg Thr Ala Gln
1   5   10

<210> 6571
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<400> 6571

Ala Gln Asn Thr Gly Thr Asp His Pro Ala Gln
1   5   10

<210> 6572
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<400> 6572

Ala Gln Gly Asn Trp Val Lys Asp Ile Ala Gln
1   5   10

<210> 6573
<211> 11
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<400> 6573

Ala Gln Arg Leu Thr Glu Thr Val Thr Ala Gln
1 5 10

<210> 6574
<211> 11
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<220>
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<400> 6574

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

<210> 6575
<211> 11
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<400> 6575

Ala Gln Leu Ala Pro Glu Pro Leu Lys Ala Gln
1 5 10

<210> 6576
<211> 11
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<400> 6576

Ala Gln Asn Lys Leu Pro Pro Ala Leu Ala Gln
1 5 10

<210> 6577
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<220>

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<400> 6577

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

<210> 6578
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<400> 6578

Ala Gln Thr Val Arg Glu Leu Gln Pro Ala Gln
1   5   10

<210> 6579
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<400> 6579

Ala Gln Glu Asn His Gly Thr Thr Ser Ala Gln
1   5   10

<210> 6580
<211> 11
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<400> 6580

Ala Gln His Thr Asp Arg Asn Tyr Val Ala Gln
1   5   10

<210> 6581
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<220>
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<400> 6581

Ala Gln Thr Val Gly Pro Thr Ser His Ala Gln
1 5 10

<210> 6582
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<220>
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<400> 6582

Ala Gln Gly Leu Val Lys Asp His Pro Ala Gln
1 5 10

<210> 6583
<211> 11
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<400> 6583

Ala Gln Ile Asn Ala Leu Thr Asn Gly Ala Gln
1 5 10

<210> 6584
<211> 11
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<220>
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<400> 6584

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

<210> 6585
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<220>
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<400> 6585

Ala Gln Leu Lys Val Thr Lys Ile Asp Ala Gln
1   5   10

<210> 6586
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<400> 6586

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

<210> 6587
<211> 11
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<400> 6587

Ala Gln Thr Thr Val Ile Leu Lys Thr Ala Gln
1   5   10

<210> 6588
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<400> 6588

Ala Gln Leu Gly Lys Gly Met Thr Ala Ala Gln

1 5 10

<210> 6589
<211> 11
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<400> 6589

Ala Gln Phe Ser Ile Ser Asp Leu Lys Ala Gln
1 5 10

<210> 6590
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<220>
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<400> 6590

Ala Gln Ser Thr Asp Thr His Leu Pro Ala Gln
1 5 10

<210> 6591
<211> 11
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<400> 6591

Ala Gln Leu Asn Ala Val Lys Asn Val Ala Gln
1 5 10

<210> 6592
<211> 11
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<400> 6592

Ala Gln Arg Ser Thr Pro Asn Thr Ile Ala Gln
1 5 10

<210> 6593
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<400> 6593

Ala Gln Leu Ser Ile Lys Leu Gln Asn Ala Gln
1 5 10

<210> 6594
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<400> 6594

Ala Gln Ser Leu Ala Ile Thr Ser Ser Ala Gln
1 5 10

<210> 6595
<211> 11
<212> PRT
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<220>
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<400> 6595

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

<210> 6596
<211> 11
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<220>
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<400> 6596

Ala Gln Gly Asn Ala Thr Pro Arg Ser Ala Gln
1   5   10

<210> 6597
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<400> 6597

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

<210> 6598
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<400> 6598

Ala Gln Trp Gln Thr Gln Asp Lys Glu Ala Gln
1   5   10

<210> 6599
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<400> 6599

Ala Gln Thr Pro Asn Val Pro Ser Pro Ala Gln
1   5   10

<210> 6600
<211> 11

<212> PRT
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<400> 6600

Ala Gln Ile Asn Thr Ile Ser Pro Lys Ala Gln
1   5   10

<210> 6601
<211> 11
<212> PRT
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<220>
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<400> 6601

Ala Gln Pro Leu Gly Thr Ser Asn Thr Ala Gln
1   5   10

<210> 6602
<211> 11
<212> PRT
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<220>
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<400> 6602

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

<210> 6603
<211> 11
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<220>
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<400> 6603

Ala Gln Pro Ile Asn Asp Lys Val Met Ala Gln
1   5   10

<210> 6604
<211> 11
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<220>
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<400> 6604

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

<210> 6605
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<220>
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<400> 6605

Ala Gln Gln Ala Asn Trp Thr Ala Ser Ala Gln
1   5   10

<210> 6606
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<400> 6606

Ala Gln Arg Pro Glu Asn His Ser Ser Ala Gln
1   5   10

<210> 6607
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<400> 6607

Ala Gln Thr Arg Asn Leu Asp Val His Ala Gln
1   5   10

<210> 6608
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<220>
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<400> 6608

Ala Gln Ile Asn Ser Ser Phe Ser Lys Ala Gln
1   5   10

<210> 6609
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<400> 6609

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

<210> 6610
<211> 11
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<400> 6610

Ala Gln Val Val Ala Val Gly Gln Phe Ala Gln
1   5   10

<210> 6611
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6611

Ala Gln Val Asn Lys Val Arg Asp Val Ala Gln
1 5 10

<210> 6612
<211> 11
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<400> 6612

Ala Gln Lys Pro Asn Ala Gln Ile Gln Ala Gln
1 5 10

<210> 6613
<211> 11
<212> PRT
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<400> 6613

Ala Gln Met Ser Ile Gly Thr Gly Ser Ala Gln
1 5 10

<210> 6614
<211> 11
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<400> 6614

Ala Gln Gly Leu Gln Ala Thr Tyr Ser Ala Gln
1 5 10

<210> 6615
<211> 11
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<400> 6615

Ala Gln Gln Thr Leu Ser Ala Ser Ser Ala Gln
1   5   10

<210> 6616
<211> 11
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<213> Artificial Sequence

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<400> 6616

Ala Gln Asp Pro Pro Asn Lys Phe Pro Ala Gln
1   5   10

<210> 6617
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6617

Ala Gln Arg Ile Ser Thr Leu Gly Leu Ala Gln
1   5   10

<210> 6618
<211> 11
<212> PRT
<213> Artificial Sequence

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<400> 6618

Ala Gln Asn Ser Asp Arg Ser Val Ser Ala Gln
1   5   10

<210> 6619

<211> 11
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<400> 6619

Ala Gln Tyr Asn Leu Arg Leu Gly Gly Ala Gln
1 5 10

<210> 6620
<211> 11
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<400> 6620

Ala Gln Val Gln Asp Arg Ala Met Thr Ala Gln
1 5 10

<210> 6621
<211> 11
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<400> 6621

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

<210> 6622
<211> 11
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<400> 6622

Ala Gln Gly Gly Val Gln Thr Asp Ser Ala Gln
1 5 10

<210> 6623
<211> 11
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<213> Artificial Sequence

<220>
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<400> 6623

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

<210> 6624
<211> 11
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<400> 6624

Ala Gln Tyr His Ala Ala Gln Ala Val Ala Gln
1   5   10

<210> 6625
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<400> 6625

Ala Gln Met Ser Gly Val Gly Ser Ser Ala Gln
1   5   10

<210> 6626
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<400> 6626

Ala Gln Leu Thr Gly Gln Val Leu Val Ala Gln
1 5 10

<210> 6627
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<400> 6627

Ala Gln Ala Val Asn Arg Leu Pro Ile Ala Gln
1 5 10

<210> 6628
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<400> 6628

Ala Gln Ser Ser Gln Met Pro Leu Arg Ala Gln
1 5 10

<210> 6629
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<400> 6629

Ala Gln Ser Ser Asn Ile Ala Asp Ser Ala Gln
1 5 10

<210> 6630
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<400> 6630

Ala Gln Val Val Thr Pro Gln Ile Ser Ala Gln
1   5   10

<210> 6631
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<400> 6631

Ala Gln Asp Ser Lys Lys Met Ser Trp Ala Gln
1   5   10

<210> 6632
<211> 11
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<400> 6632

Ala Gln Glu Thr Tyr Lys Thr Thr Leu Ala Gln
1   5   10

<210> 6633
<211> 11
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<400> 6633

Ala Gln Leu Thr Met Gly Asn Ser Leu Ala Gln
1   5   10

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Ala Gln Phe Lys Val Ser Ile Gln Gln Ala Gln
1 5 10

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Ala Gln Asp Gly His Ala His Leu Pro Ala Gln
1 5 10

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

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<400> 6637

Ala Gln Ser Gln Asn Gln Met Gln Thr Ala Gln
1 5 10

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<400> 6638

Ala Gln Gln Ser Val Thr Thr Gln His Ala Gln
1   5   10

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<400> 6639

Ala Gln Leu Ser Thr Ala Leu Thr Val Ala Gln
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Ala Gln Leu Ala Asn Ala Val Thr Lys Ala Gln
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Ala Gln Thr Gly His Val His Glu Asn Ala Gln

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<400> 6642

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

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<400> 6645

Ala Gln Leu Ser His Asn Thr Thr His Ala Gln
1 5 10

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<400> 6646

Ala Gln Pro Ser Asn Phe Ser Asn Ser Ala Gln
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<400> 6647

Ala Gln Phe Asp Lys Ser Val Pro Ser Ala Gln
1 5 10

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<400> 6648

Ala Gln Thr Gln Ala Thr Glu Lys Asp Ala Gln
1 5 10

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<400> 6649

Ala Gln Leu Ser Ala Lys Ala Ser Gln Ala Gln
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Ala Gln Ser Val Gln Pro Ala Val Ser Ala Gln
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Ala Gln Ser Leu Met His Gly Thr Pro Ala Gln
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<400> 6652

Ala Gln Pro Thr Ile Arg Thr Asn Thr Ala Gln
1   5   10

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<400> 6653

Ala Gln Asn Asp Ser Leu Lys Val Asn Ala Gln
1   5   10

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<400> 6654

Ala Gln Ser Thr Gln Pro Val Asn Arg Ala Gln
1   5   10

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Ala Gln Ser Ser Asp Lys His Asn Pro Ala Gln
1   5   10

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<400> 6656

Ala Gln Phe Leu Glu Asn Ala Lys Ile Ala Gln
1   5   10

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<400> 6657

Ala Gln Val Ser Thr Gly Thr Leu Lys Ala Gln
1   5   10

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<400> 6658

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

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<400> 6659

Ala Gln Lys Gly Thr Glu Ile Lys Leu Ala Gln
1   5   10

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<400> 6660

Ala Gln Ile Met Asn Gln Leu Gly Asp Ala Gln
1   5   10

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<400> 6661

Ala Gln Pro Ser Asn Asn Thr Gln Ile Ala Gln
1   5   10

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<400> 6662

Ala Gln Thr Ser Ser Ser Ile Thr Thr Ala Gln
1   5   10

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<400> 6663

Ala Gln Arg Asp Leu Asn Ala His Asn Ala Gln
1   5   10

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<400> 6664

Ala Gln Thr Gly Phe Ala Arg Ser Glu Ala Gln
1 5 10

<210> 6665
<211> 11
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<400> 6665

Ala Gln Leu Glu Gln Leu Ala Pro Lys Ala Gln
1 5 10

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<400> 6666

Ala Gln Ala Ala Met Gln Ser Glu Arg Ala Gln
1 5 10

<210> 6667
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<400> 6667

Ala Gln Gln Leu Asn Tyr Glu Ala His Ala Gln
1 5 10

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<400> 6668

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

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<400> 6669

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

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<400> 6670

Ala Gln Leu Pro Gln Asn Ser Ala Lys Ala Gln
1   5   10

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<400> 6671

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

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<400> 6672

Ala Gln Arg Ala Thr Asn Val Glu Val Ala Gln
1 5 10

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<400> 6673

Ala Gln Pro Gln Pro Asn Asn Arg Gly Ala Gln
1 5 10

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<400> 6674

Ala Gln Ser Pro Ser Thr Pro His Leu Ala Gln
1 5 10

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<400> 6675

Ala Gln Leu Ser Asn Thr Leu Thr Asn Ala Gln
1 5 10

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<400> 6676

Ala Gln Ser Asn Arg Glu Gly Leu Met Ala Gln
1   5   10

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<400> 6677

Ala Gln Val Ala His Ser Pro Pro Ser Ala Gln
1   5   10

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Ala Gln Ser Val Lys Asn Met Leu Thr Ala Gln
1   5   10

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<400> 6679

Ala Gln Gly Leu Ser Thr Gly Leu Ala Ala Gln
1   5   10

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<400> 6680

Ala Gln Ala Met Ser Arg Pro Glu Leu Ala Gln
1   5   10

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<400> 6681

Ala Gln Ala Met Asp Leu Lys Leu Gln Ala Gln
1   5   10

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<400> 6682

Ala Gln Ala Val Ala Gly Pro Thr Lys Ala Gln
1   5   10

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<400> 6683

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

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<400> 6684

Ala Gln Ser Glu Asn Pro Ile Asp Pro Ala Gln
1   5   10

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<400> 6685

Ala Gln Thr Asn Asn Ser Pro Gly Thr Ala Gln
1   5   10

<210> 6686
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<400> 6686

Ala Gln His Thr Ser Pro Thr Ser Leu Ala Gln
1   5   10

<210> 6687
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<400> 6687

Ala Gln Asn Asn Ala Gly Ile Ser Met Ala Gln
1 5 10

<210> 6688
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<400> 6688

Ala Gln Leu Val Tyr Ser Asn Asn Thr Ala Gln
1 5 10

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<400> 6689

Ala Gln Pro Ala Ser Gln Ser Thr Thr Ala Gln
1 5 10

<210> 6690
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<400> 6690

Ala Gln Val Gln Val Gly His Pro Leu Ala Gln
1 5 10

<210> 6691
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<400> 6691

Ala Gln Asp Ala Ser Tyr Thr Gly Thr Ala Gln
1   5   10

<210> 6692
<211> 11
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<400> 6692

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

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<400> 6693

Ala Gln Ser Met Pro Gln His Ala Ile Ala Gln
1   5   10

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<400> 6694

Ala Gln Leu Gln Ser Ala Leu Gln Asn Ala Gln

1 5 10

<210> 6695
<211> 11
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<220>
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<400> 6695

Ala Gln Lys Ser Ser Asp Ser Thr Ser Ala Gln
1 5 10

<210> 6696
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<400> 6696

Ala Gln Lys Ser Pro Ala Gly Ala Leu Ala Gln
1 5 10

<210> 6697
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<400> 6697

Ala Gln Thr Glu Met Ser Leu Thr Ser Ala Gln
1 5 10

<210> 6698
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<400> 6698

Ala Gln Leu Asn Ser Glu Thr Phe Pro Ala Gln
1 5 10

<210> 6699
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<400> 6699

Ala Gln Ser Ala Leu Ser Gln Gln Tyr Ala Gln
1 5 10

<210> 6700
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<400> 6700

Ala Gln Arg Ser Val Ala Asn Val Pro Ala Gln
1 5 10

<210> 6701
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<400> 6701

Ala Gln Ser Ser Gly Ala Thr Leu Gln Ala Gln
1 5 10

<210> 6702
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<400> 6702

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

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<400> 6703

Ala Gln Ser His Gln Thr Thr Pro Thr Ala Gln
1   5   10

<210> 6704
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<400> 6704

Ala Gln Tyr Glu Asn Ser Ser Ser Leu Ala Gln
1   5   10

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<400> 6705

Ala Gln Ile Gln Thr Ser Ala His Thr Ala Gln
1   5   10

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<400> 6706

Ala Gln Arg Glu Ile Gln Lys Met Ser Ala Gln
1   5   10

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<400> 6707

Ala Gln Ser Ala Gly Met Ile Ser His Ala Gln
1   5   10

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<400> 6708

Ala Gln Met Arg Ser Thr Asp Ser Glu Ala Gln
1   5   10

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<400> 6709

Ala Gln Ser His Pro Gln Gly Asp Ser Ala Gln
1   5   10

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<400> 6710

Ala Gln Leu Ile Asp Thr Lys Ile Ser Ala Gln
1 5 10

<210> 6711
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<400> 6711

Ala Gln Thr His Leu Lys Asp Leu Leu Ala Gln
1 5 10

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<400> 6712

Ala Gln Gly Thr Ser Ser Val Leu Ile Ala Gln
1 5 10

<210> 6713
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<400> 6713

Ala Gln Pro Leu Val Thr Asn Glu Pro Ala Gln
1   5   10

<210> 6714
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<400> 6714

Ala Gln Arg Asp Leu Ser His Asn Ser Ala Gln
1   5   10

<210> 6715
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<400> 6715

Ala Gln Tyr Asp Asn Glu His Arg Pro Ala Gln
1   5   10

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<400> 6716

Ala Gln Val Gly Ser His Thr Met Thr Ala Gln
1   5   10

<210> 6717
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<400> 6717

Ala Gln Gly His Thr Ser Val Ser Leu Ala Gln
1 5 10

<210> 6718
<211> 11
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<400> 6718

Ala Gln Leu Asp Leu Lys Asn Gln Arg Ala Gln
1 5 10

<210> 6719
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<400> 6719

Ala Gln Pro Val Ala Lys Ile Thr Ser Ala Gln
1 5 10

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<400> 6720

Ala Gln Leu Glu Asn Gly Lys Pro Lys Ala Gln
1 5 10

<210> 6721
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<400> 6721

Ala Gln Asp Leu Ala Arg Ala Thr Leu Ala Gln
1   5   10

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<400> 6722

Ala Gln Lys Val Arg Asp Asp Lys Pro Ala Gln
1   5   10

<210> 6723
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<400> 6723

Ala Gln His Asn Val Ala Ile Thr Pro Ala Gln
1   5   10

<210> 6724
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<400> 6724

Ala Gln Thr Phe Asn Ala Thr Tyr Ala Ala Gln
1   5   10

<210> 6725

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<400> 6725

Ala Gln Gly Ser Gln Gly Thr Ile Arg Ala Gln
1 5 10

<210> 6726
<211> 11
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<400> 6726

Ala Gln Ser Leu Gly His Asp Ala Arg Ala Gln
1 5 10

<210> 6727
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<400> 6727

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

<210> 6728
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<400> 6728

Ala Gln Ala Met Asn Leu Gln Asn Leu Ala Gln
1 5 10

<210> 6729
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<400> 6729

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

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<400> 6730

Ala Gln Thr Val Met Ser Ser Ser Ser Ala Gln
1   5   10

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<400> 6731

Ala Gln His Thr Ser Pro Val Gly Tyr Ala Gln
1   5   10

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<400> 6732

Ala Gln Trp Thr Ser Gln Ala Thr Ala Ala Gln
1   5   10

<210> 6733
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<400> 6733

Ala Gln Thr Met Asn Ser Val Pro Arg Ala Gln
1   5   10

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<400> 6734

Ala Gln Val Asn Gly Gly Met Val Asn Ala Gln
1   5   10

<210> 6735
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<400> 6735

Ala Gln Thr Asn Ala Arg Met Asn Thr Ala Gln
1   5   10

<210> 6736
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<400> 6736

Ala Gln Ile Ser Gly Asn Met His Ser Ala Gln
1   5   10

<210> 6737
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<400> 6737

Ala Gln Ser Val Gly Gly Ala Ser Phe Ala Gln
1   5   10

<210> 6738
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<400> 6738

Ala Gln Thr Ser Glu Ser Pro Tyr Lys Ala Gln
1   5   10

<210> 6739
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<400> 6739

Ala Gln Gly His Phe Gly Thr Met Ser Ala Gln
1   5   10

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<400> 6740

Ala Gln Leu Thr Thr Ser Gly Leu Lys Ala Gln
1 5 10

<210> 6741
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<400> 6741

Ala Gln Arg Ile Asn Ser Ser Thr Tyr Ala Gln
1 5 10

<210> 6742
<211> 11
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<400> 6742

Ala Gln Leu Thr Gly Ser Ser Leu Thr Ala Gln
1 5 10

<210> 6743
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<400> 6743

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

<210> 6744
<211> 11
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<400> 6744

Ala Gln Thr Thr Ser Asn Asn Thr His Ala Gln
1   5   10

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<400> 6745

Ala Gln Gln Val Thr Thr Asn Leu Asp Ala Gln
1   5   10

<210> 6746
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<400> 6746

Ala Gln Ala Leu Asp Ser Ser Glu Pro Ala Gln
1   5   10

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<400> 6747

Ala Gln Tyr Pro Lys Asn Val Ala Trp Ala Gln

1 5 10

<210> 6748
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Ala Gln Ser Thr Thr Gly Arg Asn Leu Ala Gln
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Ala Gln Thr Lys Leu Met Gln Ser Asn Ala Gln
1 5 10

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Ala Gln Asn Ser Tyr Gly Asp Ala Ala Ala Gln
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Ala Gln Glu His Thr Gly Ala Pro Ala Ala Gln
1 5 10

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Ala Gln Leu Arg Thr Glu Thr Ala Asn Ala Gln
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Ala Gln Val Leu Asp Val Asn Thr Leu Ala Gln
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Ala Gln Asp Arg Gly Asn Asp Lys Leu Ala Gln
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<400> 6755

Ala Gln Ser Phe Thr Asn Ser Thr His Ala Gln
1   5   10

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Ala Gln Leu Ala His Ser Ser Leu Ser Ala Gln
1   5   10

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

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

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<400> 6763

Ala Gln Tyr Ala Gln Gln Leu Pro Val Ala Gln
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<400> 6764

Ala Gln Ile Val Thr Gly Thr Thr Gln Ala Gln
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<400> 6765

Ala Gln Ser Lys Ile Thr Glu Ser Asn Ala Gln
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<400> 6766

Ala Gln Ile Ala Gly Gln Val Gly Ala Ala Gln
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<400> 6767

Ala Gln Gly Tyr Ser Gln Thr Pro His Ala Gln
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<400> 6768

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

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<400> 6769

Ala Gln Asn Ala Val Ser Asn Asn Thr Ala Gln
1   5   10

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<400> 6770

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

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<400> 6771

Ala Gln Thr Ser Ile Pro Asp Lys Pro Ala Gln
1 5 10

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<400> 6772

Ala Gln Gly Ser Ser Thr Ala Ser Leu Ala Gln
1 5 10

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<400> 6773

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

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<400> 6774

Ala Gln Ser Leu Asn Gly Gly Arg Thr Ala Gln
1   5   10

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<400> 6775

Ala Gln Pro Val Lys Thr Val Gly Ile Ala Gln
1   5   10

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<400> 6776

Ala Gln Gln Pro Ser Ala Ile Pro Asn Ala Gln
1   5   10

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<400> 6777

Ala Gln Phe Ala Ser Ser Val Ser Ala Ala Gln
1   5   10

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<400> 6778

Ala Gln Glu Gly Asn Leu Thr Lys Leu Ala Gln
1 5 10

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<400> 6779

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

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<400> 6780

Ala Gln Thr His Arg Asp Phe Ser Pro Ala Gln
1 5 10

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<400> 6781

Ala Gln Thr Gly Val Ser Thr Gly Val Ala Gln
1 5 10

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<400> 6782

Ala Gln Val Pro Asn Asn Ser Gln Arg Ala Gln
1   5   10

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<400> 6783

Ala Gln Met Pro Ser Gly Val Pro Val Ala Gln
1   5   10

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<400> 6784

Ala Gln Asn Ala Leu Pro Arg Pro Asn Ala Gln
1   5   10

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<400> 6785

Ala Gln Arg Thr Asp His Ser Gln Ile Ala Gln
1 5 10

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<400> 6786

Ala Gln Gln Thr Leu Lys Ser Ala Tyr Ala Gln
1 5 10

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<400> 6787

Ala Gln Lys Glu Glu His Thr Arg Gly Ala Gln
1 5 10

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<400> 6788

Ala Gln Leu Pro Ala Ala Pro Arg Tyr Ala Gln
1 5 10

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<400> 6789

Ala Gln Leu Asp Lys Ala His Phe Ala Ala Gln
1   5   10

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<400> 6790

Ala Gln His Ala Ile Asp Ala Val Lys Ala Gln
1   5   10

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<400> 6791

Ala Gln Pro Ile Leu Thr Ala Val Pro Ala Gln
1   5   10

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<400> 6792

Ala Gln Thr Val Gln Gln Ser Ala Met Ala Gln
1   5   10

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<400> 6793

Ala Gln Ser Glu Gly Ile Gly Gly Arg Ala Gln
1 5 10

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<400> 6794

Ala Gln Met Gly Ser Thr Val Thr Arg Ala Gln
1 5 10

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<400> 6795

Ala Gln Ser Val Arg Ser Pro Thr Lys Ala Gln
1 5 10

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<400> 6796

Ala Gln Thr Thr Arg Asp Val Thr Thr Ala Gln
1 5 10

<210> 6797
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<400> 6797

Ala Gln Ser Ala Ala Gly Lys Thr Tyr Ala Gln
1   5   10

<210> 6798
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<400> 6798

Ala Gln Thr Thr Pro Ser Thr Val Arg Ala Gln
1   5   10

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<400> 6799

Ala Gln Val Ala Leu Thr Thr Thr Val Ala Gln
1   5   10

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Ala Gln Asp Thr Gln Leu Pro Leu Ser Ala Gln

1 5 10

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<400> 6801

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

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<400> 6802

Ala Gln Met Glu Leu Lys Tyr Gln Arg Ala Gln
1 5 10

<210> 6803
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<400> 6803

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

<210> 6804
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<400> 6804

Ala Gln His Ser Pro Ser Leu Ser Asp Ala Gln
1 5 10

<210> 6805
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<400> 6805

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

<210> 6806
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<400> 6806

Ala Gln Arg Glu Val Ser Ser Thr Thr Ala Gln
1 5 10

<210> 6807
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<400> 6807

Ala Gln Gly Lys Ala Thr Leu Asp Thr Ala Gln
1 5 10

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<400> 6808

Ala Gln Leu Asn Pro Pro Leu Asn Asn Ala Gln
1   5   10

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<400> 6809

Ala Gln Thr Ser Gly His Ser Pro Ser Ala Gln
1   5   10

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<400> 6810

Ala Gln Asp Val Thr Ala Thr Ala Pro Ala Gln
1   5   10

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<400> 6811

Ala Gln His Gln Asn Thr Gly Ser Val Ala Gln
1   5   10

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<400> 6812

Ala Gln Asp Leu Thr His Thr Phe Asp Ala Gln
1 5 10

<210> 6813
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<400> 6813

Ala Gln Tyr Leu Pro Asn Lys Glu Arg Ala Gln
1 5 10

<210> 6814
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<400> 6814

Ala Gln Val Asp Gly Thr Tyr Thr Val Ala Gln
1 5 10

<210> 6815
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<400> 6815

Ala Gln Tyr Leu Thr Ser Gly Gly Tyr Ala Gln
1 5 10

<210> 6816
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<400> 6816

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

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<400> 6817

Ala Gln Phe Asp Ala Asn Ser Lys Ile Ala Gln
1 5 10

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<400> 6818

Ala Gln Tyr Leu Thr Glu Ser Pro Gly Ala Gln
1 5 10

<210> 6819
<211> 11
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<400> 6819

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

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<400> 6820

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

<210> 6821
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<400> 6821

Ala Gln Arg Val Glu Lys Leu Thr Pro Ala Gln
1   5   10

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<400> 6822

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

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<400> 6823

Ala Gln Pro Ala Ala Thr Ser Gly Phe Ala Gln
1 5 10

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<400> 6824

Ala Gln Ile Leu Thr Ile His Thr His Ala Gln
1 5 10

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<400> 6825

Ala Gln Ile Asn Ile Ser Ser His Val Ala Gln
1 5 10

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<400> 6826

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

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<400> 6827

Ala Gln Ser Thr Met Pro Thr Arg Leu Ala Gln
1   5   10

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<400> 6828

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

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<400> 6829

Ala Gln Leu Val Gln Thr Gly Leu Leu Ala Gln
1   5   10

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<400> 6830

Ala Gln Val Ser Leu Asn Arg Thr Glu Ala Gln
1   5   10

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<400> 6831

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

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<400> 6832

Ala Gln Val Glu Arg Met Pro Arg Met Ala Gln
1   5   10

<210> 6833
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<400> 6833

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

<210> 6834
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<400> 6834

Ala Gln Ala Thr Val Lys Ser Ser Thr Ala Gln
1   5   10

<210> 6835
<211> 11
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<400> 6835

Ala Gln Gly Gly Asn Val Gln Ala Ile Ala Gln
1   5   10

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<400> 6836

Ala Gln Thr Ile Val Asn Val Thr Ser Ala Gln
1   5   10

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<400> 6837

Ala Gln Gly Asp Pro Ala Gln Ser Ser Ala Gln
1   5   10

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<400> 6838

Ala Gln Thr Lys Asn Thr Asp Phe Gln Ala Gln
1 5 10

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<400> 6839

Ala Gln Arg His Thr Asp Ala Val Ile Ala Gln
1 5 10

<210> 6840
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<400> 6840

Ala Gln Ser Val His Thr Ala Val Arg Ala Gln
1 5 10

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<400> 6841

Ala Gln Ile Thr Ser Leu Met Ser Gly Ala Gln
1 5 10

<210> 6842
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<400> 6842

Ala Gln Asp His Asn Gln Ile Ser Leu Ala Gln
1   5   10

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<400> 6843

Ala Gln Gln Gly Gln Ser Ala Leu Lys Ala Gln
1   5   10

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<400> 6844

Ala Gln Asn Asn Ala Thr Arg Tyr Thr Ala Gln
1   5   10

<210> 6845
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<400> 6845

Ala Gln Ser Arg Asn Thr Thr Ser Trp Ala Gln
1   5   10

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<400> 6846

Ala Gln Pro Ser Asn Ser Lys Leu Ile Ala Gln
1 5 10

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<400> 6847

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

<210> 6848
<211> 11
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<400> 6848

Ala Gln Thr Pro Leu Pro Arg Val Ser Ala Gln
1 5 10

<210> 6849
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<400> 6849

Ala Gln Gln Thr Ile Ala Ser Ala Leu Ala Gln
1 5 10

<210> 6850
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<400> 6850

Ala Gln Pro Ile Met Lys Thr Thr Val Ala Gln
1   5   10

<210> 6851
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<400> 6851

Ala Gln Ser Ala Val Ile Gln Gly His Ala Gln
1   5   10

<210> 6852
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<400> 6852

Ala Gln Pro Leu Tyr Gly Thr Met Ser Ala Gln
1   5   10

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<400> 6853

Ala Gln Ala Asn Arg Thr Lys Asp Tyr Ala Gln

1 5 10

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<400> 6854

Ala Gln Val Ile Pro Gln Thr Glu Arg Ala Gln
1 5 10

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<400> 6855

Ala Gln Ile Val Asn Gly His Ile Arg Ala Gln
1 5 10

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<400> 6856

Ala Gln Ser Arg Pro Asn Glu Thr Thr Ala Gln
1 5 10

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<400> 6857

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

<210> 6858
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<400> 6858

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

<210> 6859
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<400> 6859

Ala Gln Ser Thr Gly Ser Pro Thr Ile Ala Gln
1 5 10

<210> 6860
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<400> 6860

Ala Gln Ser Thr Met Thr Gly Leu Ile Ala Gln
1 5 10

<210> 6861
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<400> 6861

Ala Gln Ile His Ala Val Gly Ala Glu Ala Gln
1   5   10

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<400> 6862

Ala Gln Thr Ala Asn Val Ser Glu Leu Ala Gln
1   5   10

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<400> 6863

Ala Gln Asn Lys Ser Asp Met Pro His Ala Gln
1   5   10

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<400> 6864

Ala Gln Ser Asn Tyr Asn Thr His Asp Ala Gln
1   5   10

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<400> 6865

Ala Gln Pro Ser Val Thr His His Pro Ala Gln
1   5   10

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<400> 6866

Ala Gln Asn Leu Ser Leu Lys Pro Leu Ala Gln
1   5   10

<210> 6867
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<400> 6867

Ala Gln Leu Tyr Ser Asn Lys Ser Asn Ala Gln
1   5   10

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<400> 6868

Ala Gln Asp Asn Gly Leu Val His Arg Ala Gln
1   5   10

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<400> 6869

Ala Gln Met Gly Thr Leu Thr Ile Ser Ala Gln
1 5 10

<210> 6870
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<400> 6870

Ala Gln Thr Phe Gln Ser Asp Glu Arg Ala Gln
1 5 10

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<400> 6871

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

<210> 6872
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<400> 6872

Ala Gln Thr Val Val Asn Pro Ser Ser Ala Gln
1   5   10

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<400> 6873

Ala Gln Asp Asn Asn Val Arg His Thr Ala Gln
1   5   10

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<400> 6874

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

<210> 6875
<211> 11
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<400> 6875

Ala Gln His Pro Pro Val Pro Ala Ser Ala Gln
1   5   10

<210> 6876
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<400> 6876

Ala Gln Lys Tyr Ile Thr Pro Ser Ser Ala Gln
1 5 10

<210> 6877
<211> 11
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<400> 6877

Ala Gln Val Pro Asp Lys Gln Ala Met Ala Gln
1 5 10

<210> 6878
<211> 11
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<400> 6878

Ala Gln Val Ile Ala Lys Thr Glu Tyr Ala Gln
1 5 10

<210> 6879
<211> 11
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<400> 6879

Ala Gln Gly Gly Gln Ala Glu Ala Arg Ala Gln
1 5 10

<210> 6880
<211> 11
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<400> 6880

Ala Gln Gln Pro Val Leu Asn Gln Pro Ala Gln
1   5   10

<210> 6881
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<400> 6881

Ala Gln Asn Asn Thr Asn Glu Asn Leu Ala Gln
1   5   10

<210> 6882
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<400> 6882

Ala Gln Thr Asn Leu Ser Leu Ser Ser Ala Gln
1   5   10

<210> 6883
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<400> 6883

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

<210> 6884

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<400> 6884

Ala Gln Thr His Ala Thr Thr Phe Ala Ala Gln
1 5 10

<210> 6885
<211> 11
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<400> 6885

Ala Gln Thr Ser Gln Gln Asp Arg Ser Ala Gln
1 5 10

<210> 6886
<211> 11
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<400> 6886

Ala Gln Ala Leu Leu His Arg Glu Ala Ala Gln
1 5 10

<210> 6887
<211> 11
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<400> 6887

Ala Gln Asn Pro Ser Val Thr Ala Leu Ala Gln
1 5 10

<210> 6888
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<400> 6888

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

<210> 6889
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<400> 6889

Ala Gln Thr Met Leu Leu Glu Pro Lys Ala Gln
1   5   10

<210> 6890
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<213> Artificial Sequence

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<400> 6890

Ala Gln Asn Val Arg Pro Ser Thr Tyr Ala Gln
1   5   10

<210> 6891
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<400> 6891

Ala Gln Val Ile His Ile Thr Asn Thr Ala Gln
1   5   10

<210> 6892
<211> 11
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<220>
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<400> 6892

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

<210> 6893
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<400> 6893

Ala Gln Tyr Gln Asp Asn Ala Arg Leu Ala Gln
1   5   10

<210> 6894
<211> 11
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<400> 6894

Ala Gln Ile Gln Gly Leu Thr Ser His Ala Gln
1   5   10

<210> 6895
<211> 11
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<220>

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<400> 6895

Ala Gln Thr Tyr Asn Gln Gly Lys Gln Ala Gln
1 5 10

<210> 6896
<211> 11
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<220>
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<400> 6896

Ala Gln Ala Pro Thr Gly Met Lys His Ala Gln
1 5 10

<210> 6897
<211> 11
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<213> Artificial Sequence

<220>
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<400> 6897

Ala Gln Met Ser Gly Glu Leu Ile Arg Ala Gln
1 5 10

<210> 6898
<211> 11
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<213> Artificial Sequence

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<400> 6898

Ala Gln Arg Leu Asn Thr Ser His Leu Ala Gln
1 5 10

<210> 6899
<211> 11
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<220>
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<400> 6899

Ala Gln Ala Thr Ala Leu Ala Ala Gly Ala Gln
1 5 10

<210> 6900
<211> 11
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<220>
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<400> 6900

Ala Gln Pro Ile Ser Gly Leu Lys Ser Ala Gln
1 5 10

<210> 6901
<211> 11
<212> PRT
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<400> 6901

Ala Gln Glu Arg Thr Phe Asn Pro Ala Ala Gln
1 5 10

<210> 6902
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 6902

Ala Gln Met Ser Asn Ile Ser Ser Val Ala Gln
1 5 10

<210> 6903
<211> 11
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<220>
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<400> 6903

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

<210> 6904
<211> 11
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<400> 6904

Ala Gln Asp His Tyr Val Asn Thr Arg Ala Gln
1   5   10

<210> 6905
<211> 11
<212> PRT
<213> Artificial Sequence

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<400> 6905

Ala Gln Pro Gly Thr Ala Val Arg Leu Ala Gln
1   5   10

<210> 6906
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<400> 6906

Ala Gln Asp Lys Gly Thr Leu Ser Glu Ala Gln

1 5 10

<210> 6907
<211> 11
<212> PRT
<213> Artificial Sequence

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<400> 6907

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

<210> 6908
<211> 11
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<213> Artificial Sequence

<220>
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<400> 6908

Ala Gln Glu Pro Val Leu His Thr Val Ala Gln
1 5 10

<210> 6909
<211> 11
<212> PRT
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<400> 6909

Ala Gln Asp Arg Ala Ile Leu Asn Ser Ala Gln
1 5 10

<210> 6910
<211> 11
<212> PRT
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<400> 6910

Ala Gln Glu Ile Gly Ser Leu Arg Gln Ala Gln
1 5 10

<210> 6911
<211> 11
<212> PRT
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<400> 6911

Ala Gln Ala Phe Val Gly Ala Thr Pro Ala Gln
1 5 10

<210> 6912
<211> 11
<212> PRT
<213> Artificial Sequence

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<400> 6912

Ala Gln Phe Val Gln Asn Lys Asp Ala Ala Gln
1 5 10

<210> 6913
<211> 11
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<213> Artificial Sequence

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<400> 6913

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

<210> 6914
<211> 11
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<213> Artificial Sequence

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<400> 6914

Ala Gln Leu Leu Pro Thr Ala His Asn Ala Gln
1   5   10

<210> 6915
<211> 11
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<400> 6915

Ala Gln Pro Asn Gly Ile Thr Ser Thr Ala Gln
1   5   10

<210> 6916
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<400> 6916

Ala Gln Ser Gly Val Thr Lys Gly Ser Ala Gln
1   5   10

<210> 6917
<211> 11
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<400> 6917

Ala Gln Met Asn Ser Thr Ile Ser His Ala Gln
1   5   10

<210> 6918
<211> 11

<212> PRT
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<400> 6918

Ala Gln Tyr Lys Ser Asp Val Gly Ser Ala Gln
1   5   10

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<211> 11
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<400> 6919

Ala Gln Pro Val Thr Arg Val Asn Leu Ala Gln
1   5   10

<210> 6920
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<400> 6920

Ala Gln Arg Asn Val Ala Asp Gly Leu Ala Gln
1   5   10

<210> 6921
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<400> 6921

Ala Gln Ala Ser Ala Thr Ser Ile Thr Ala Gln
1   5   10

<210> 6922
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<400> 6922

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

<210> 6923
<211> 11
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<400> 6923

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

<210> 6924
<211> 11
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<400> 6924

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

<210> 6925
<211> 11
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<400> 6925

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

<210> 6926
<211> 11
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<400> 6926

Ala Gln Ala Ala Ser Glu Arg Arg Met Ala Gln
1 5 10

<210> 6927
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<213> Artificial Sequence

<220>
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<400> 6927

Ala Gln Arg His Ser Ala Val Pro Glu Ala Gln
1 5 10

<210> 6928
<211> 11
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<220>
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<400> 6928

Ala Gln Tyr Gln Asp Thr Lys Gly Gln Ala Gln
1 5 10

<210> 6929
<211> 11
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<400> 6929

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

<210> 6930
<211> 11
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<220>
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<400> 6930

Ala Gln Ile Ala Arg Ser Val Ser Met Ala Gln
1 5 10

<210> 6931
<211> 11
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<220>
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<400> 6931

Ala Gln Pro Ser Ser Lys Leu Pro Leu Ala Gln
1 5 10

<210> 6932
<211> 11
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<220>
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<400> 6932

Ala Gln Ile Asn Asp Gln Arg Ile Ser Ala Gln
1 5 10

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<400> 6933

Ala Gln Gly Ile Ser Glu Lys Thr Ser Ala Gln
1   5   10

<210> 6934
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<400> 6934

Ala Gln Thr Ser Ala Tyr Thr Ser Val Ala Gln
1   5   10

<210> 6935
<211> 11
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<220>
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<400> 6935

Ala Gln Gly Thr Leu His Ser Ser Ala Ala Gln
1   5   10

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<400> 6936

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

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<400> 6937

Ala Gln Asn Asn Thr Ala Met Ser Leu Ala Gln
1 5 10

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<400> 6938

Ala Gln Ile Leu Arg Val Ala Asp Ala Ala Gln
1 5 10

<210> 6939
<211> 11
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<400> 6939

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

<210> 6940
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<400> 6940

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

<210> 6941
<211> 11
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<400> 6941

Ala Gln Ile Tyr Gln Thr Ala Ser Ala Ala Gln
1   5   10

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<400> 6942

Ala Gln Thr Ser Glu Arg Thr Gln Phe Ala Gln
1   5   10

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<400> 6943

Ala Gln Ser Thr Val Ala Leu Thr Ser Ala Gln
1   5   10

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<400> 6944

Ala Gln Gly Asn Thr Val Ile Asn Ala Ala Gln
1 5 10

<210> 6945
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<400> 6945

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

<210> 6946
<211> 11
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<400> 6946

Ala Gln Leu Arg Met Ser Asp Ser Phe Ala Gln
1 5 10

<210> 6947
<211> 11
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<400> 6947

Ala Gln Thr Ser Glu Ser Gly Thr Leu Ala Gln
1 5 10

<210> 6948
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<400> 6948

Ala Gln Glu Ala Thr Arg Pro Val Arg Ala Gln
1   5   10

<210> 6949
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<400> 6949

Ala Gln Asn Lys Gln Phe Leu Ala Asp Ala Gln
1   5   10

<210> 6950
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<400> 6950

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

<210> 6951
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<400> 6951

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

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<400> 6952

Ala Gln Gln Asn Ala Thr Asn Leu Met Ala Gln
1 5 10

<210> 6953
<211> 11
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<220>
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<400> 6953

Ala Gln Ser Met Tyr Ala Gly His Glu Ala Gln
1 5 10

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<400> 6954

Ala Gln Met Val Asn Ser Glu Lys Ala Ala Gln
1 5 10

<210> 6955
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<400> 6955

Ala Gln Arg Met Ser Met Arg Ser Asp Ala Gln
1 5 10

<210> 6956
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<400> 6956

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

<210> 6957
<211> 11
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<400> 6957

Ala Gln Gln Ser Ser Val Leu Thr Pro Ala Gln
1   5   10

<210> 6958
<211> 11
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<220>
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<400> 6958

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

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<400> 6959

Ala Gln Met Arg Gly Thr Leu Ser Met Ala Gln

1 5 10

<210> 6960
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<400> 6960

Ala Gln Asp His Gly Ala Ser Leu Pro Ala Gln
1 5 10

<210> 6961
<211> 11
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<400> 6961

Ala Gln Ser His Leu Ala Thr Pro Lys Ala Gln
1 5 10

<210> 6962
<211> 11
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<220>
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<400> 6962

Ala Gln Ser Asp Ala Ser His Arg Gln Ala Gln
1 5 10

<210> 6963
<211> 11
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<400> 6963

Ala Gln Thr Gly Thr Glu Arg Leu Ser Ala Gln
1 5 10

<210> 6964
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<400> 6964

Ala Gln Ala Val Gly His Val Gly Pro Ala Gln
1 5 10

<210> 6965
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<400> 6965

Ala Gln Gln Ser Gln Gln Gly Val Lys Ala Gln
1 5 10

<210> 6966
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<400> 6966

Ala Gln Asn Leu Thr Ile Ser Asn Arg Ala Gln
1 5 10

<210> 6967
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<400> 6967

Ala Gln Val Ser Ser Gly Tyr Glu Thr Ala Gln
1   5   10

<210> 6968
<211> 11
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<400> 6968

Ala Gln Ser Ile Ser Pro Pro Arg Thr Ala Gln
1   5   10

<210> 6969
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<400> 6969

Ala Gln Pro Tyr Asn Gln Ser Pro Ser Ala Gln
1   5   10

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<400> 6970

Ala Gln Thr Met Ser Tyr Asn Thr Asn Ala Gln
1   5   10

<210> 6971
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<400> 6971

Ala Gln Gly Ala Tyr Asn Thr Val Ser Ala Gln
1   5   10

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<400> 6972

Ala Gln Ser Lys Val Thr Pro Pro Leu Ala Gln
1   5   10

<210> 6973
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<400> 6973

Ala Gln Arg Phe Arg Glu Asn Asp His Ala Gln
1   5   10

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<400> 6974

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

<210> 6975
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<400> 6975

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

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<211> 11
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<400> 6976

Ala Gln Thr Leu Ser Tyr Val Thr Ser Ala Gln
1   5   10

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<400> 6977

Ala Gln Ser Thr Thr Val Leu Pro Val Ala Gln
1   5   10

<210> 6978
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<400> 6978

Ala Gln Met Thr His Thr Leu Leu Ser Ala Gln
1   5   10

<210> 6979
<211> 11
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<400> 6979

Ala Gln Ser Thr Tyr Asn Lys Thr Phe Ala Gln
1   5   10

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<400> 6980

Ala Gln Ala Thr Ser Ser His Thr Leu Ala Gln
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<400> 6981

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

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<400> 6982

Ala Gln Gln Ala Asn Thr Pro Thr Lys Ala Gln
1 5 10

<210> 6983
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<400> 6983

Ala Gln Ser Ala Val Ile Asn Ser Ser Ala Gln
1 5 10

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<400> 6984

Ala Gln Asn His Gly Asn Glu Val Lys Ala Gln
1 5 10

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<400> 6985

Ala Gln Lys His Leu Ser His Asp Pro Ala Gln
1 5 10

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<400> 6986

Ala Gln Leu Gly Ser Gly Arg Met Ala Ala Gln
1   5   10

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<400> 6987

Ala Gln Ser Asn Gln Ile Thr Ile Val Ala Gln
1   5   10

<210> 6988
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<400> 6988

Ala Gln Gly Gly Arg Gly Val Gly Met Ala Gln
1   5   10

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<400> 6989

Ala Gln Phe Val Thr Glu Ser Lys Ser Ala Gln
1   5   10

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<400> 6990

Ala Gln Asn Ser Val His Asn Asp Leu Ala Gln
1 5 10

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<400> 6991

Ala Gln Ser Pro Gln Gln Ser Arg Tyr Ala Gln
1 5 10

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<400> 6992

Ala Gln Thr Gln Pro Asn His Asp Ser Ala Gln
1 5 10

<210> 6993
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<400> 6993

Ala Gln Thr Arg Leu Asn Glu Val Thr Ala Gln
1 5 10

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<400> 6994

Ala Gln Thr Ala Gln Arg Thr Asn Val Ala Gln
1   5   10

<210> 6995
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<400> 6995

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

<210> 6996
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<400> 6996

Ala Gln Ala Tyr Ser Val Val Arg Gly Ala Gln
1   5   10

<210> 6997
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<400> 6997

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

<210> 6998
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<400> 6998

Ala Gln Thr Lys Met Gly Thr Pro Asn Ala Gln
1 5 10

<210> 6999
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<400> 6999

Ala Gln Thr Thr Pro Asn Leu Asn Pro Ala Gln
1 5 10

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<400> 7000

Ala Gln Thr Ser Gly Thr Asp Gly Ile Ala Gln
1 5 10

<210> 7001
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<220>

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<400> 7001

Ala Gln Pro Met Pro Asn Met Pro Ser Ala Gln
1   5   10

<210> 7002
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<400> 7002

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

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<400> 7003

Ala Gln Leu Gln Thr Ser Ser His Thr Ala Gln
1   5   10

<210> 7004
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<400> 7004

Ala Gln Thr Ser Met Gln Gly Val Tyr Ala Gln
1   5   10

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<400> 7005

Ala Gln Gln Thr Thr Val Leu Asn Lys Ala Gln
1 5 10

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<400> 7006

Ala Gln Ile Ile Pro Val Asn Ser Thr Ala Gln
1 5 10

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<400> 7007

Ala Gln Ile Ala Thr Val Thr Ser Ser Ala Gln
1 5 10

<210> 7008
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<400> 7008

Ala Gln Leu Glu Thr Pro Gly Arg Met Ala Gln
1 5 10

<210> 7009
<211> 11
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<400> 7009

Ala Gln Ile Ala Thr Ser Val Gly Ser Ala Gln
1   5   10

<210> 7010
<211> 11
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<400> 7010

Ala Gln Val Arg Glu His Glu Ala Leu Ala Gln
1   5   10

<210> 7011
<211> 11
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<400> 7011

Ala Gln Pro Leu Thr Asn Val Gln Gly Ala Gln
1   5   10

<210> 7012
<211> 11
<212> PRT
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<220>
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<400> 7012

Ala Gln Arg Asp Met Val Gln Thr Met Ala Gln

1 5 10

<210> 7013
<211> 11
<212> PRT
<213> Artificial Sequence

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<400> 7013

Ala Gln Arg Leu Gly Phe Ala Thr Asn Ala Gln
1 5 10

<210> 7014
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<400> 7014

Ala Gln Met Ser Gln Val Thr Thr Glu Ala Gln
1 5 10

<210> 7015
<211> 11
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<400> 7015

Ala Gln Ser Val Leu Pro Asn Ala Ile Ala Gln
1 5 10

<210> 7016
<211> 11
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<400> 7016

Ala Gln Lys Phe Ser Pro Thr Leu Ala Ala Gln
1 5 10

<210> 7017
<211> 11
<212> PRT
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<220>
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<400> 7017

Ala Gln Asn Ile Gly Asn Met Val Leu Ala Gln
1 5 10

<210> 7018
<211> 11
<212> PRT
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<400> 7018

Ala Gln Ser Leu Leu Thr Val Leu Ser Ala Gln
1 5 10

<210> 7019
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<400> 7019

Ala Gln Asn Ser Asn Pro Ser Met Leu Ala Gln
1 5 10

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<400> 7020

Ala Gln Ile Thr Ala Ala Val Arg Asp Ala Gln
1   5   10

<210> 7021
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<400> 7021

Ala Gln Ala Tyr Thr Ser Asn Asp Arg Ala Gln
1   5   10

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<400> 7022

Ala Gln Asn Ser Val Gly Ser Met Lys Ala Gln
1   5   10

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<400> 7023

Ala Gln Arg Leu Asp Thr Thr Trp Val Ala Gln
1   5   10

<210> 7024
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<400> 7024

Ala Gln Ile Ala Glu Ala Gly Gly Arg Ala Gln
1 5 10

<210> 7025
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<400> 7025

Ala Gln Ser Lys Thr Asn Leu Gln Leu Ala Gln
1 5 10

<210> 7026
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<400> 7026

Ala Gln Phe Ser Lys Asp Asp Ala Val Ala Gln
1 5 10

<210> 7027
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<400> 7027

Ala Gln Leu Thr Ser His Ser Leu Thr Ala Gln
1 5 10

<210> 7028
<211> 11
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<220>
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<400> 7028

Ala Gln His Val Gln Leu Gln Tyr Pro Ala Gln
1 5 10

<210> 7029
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<400> 7029

Ala Gln Asn His Asn Gln Pro Ser Ala Ala Gln
1 5 10

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<400> 7030

Ala Gln Thr Glu Gly Ala Arg Ser Leu Ala Gln
1 5 10

<210> 7031
<211> 11
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<400> 7031

Ala Gln Asn Gln Ser Asp Ser Lys Val Ala Gln
1   5   10

<210> 7032
<211> 11
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<400> 7032

Ala Gln Val Ser Leu Pro Leu Ala Pro Ala Gln
1   5   10

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<400> 7033

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

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<220>
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<400> 7034

Ala Gln Tyr Ser Asn Ser Asn Asn His Ala Gln
1   5   10

<210> 7035
<211> 11
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<400> 7035

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

<210> 7036
<211> 11
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<400> 7036

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

<210> 7037
<211> 11
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<400> 7037

Ala Gln Met Gly Ala Arg Met Pro Leu Ala Gln
1 5 10

<210> 7038
<211> 11
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<220>
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<400> 7038

Ala Gln Ser His Asp His Met Leu Ile Ala Gln
1 5 10

<210> 7039
<211> 11
<212> PRT
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<400> 7039

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

<210> 7040
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<400> 7040

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

<210> 7041
<211> 11
<212> PRT
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<400> 7041

Ala Gln Leu Ser Asn Ile Asn Pro His Ala Gln
1   5   10

<210> 7042
<211> 11
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<400> 7042

Ala Gln Ser Ser Asn His Thr Ser Arg Ala Gln
1   5   10

<210> 7043

<211> 11
<212> PRT
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<220>
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<400> 7043

Ala Gln Met His Val Asn Ala Ser Pro Ala Gln
1 5 10

<210> 7044
<211> 11
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<400> 7044

Ala Gln Trp Asp Ser Leu Ala Ala Pro Ala Gln
1 5 10

<210> 7045
<211> 11
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<220>
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<400> 7045

Ala Gln Leu Asp Gly Ala His Asn Ala Ala Gln
1 5 10

<210> 7046
<211> 11
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<220>
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<400> 7046

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

<210> 7047
<211> 11
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<220>
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<400> 7047

Ala Gln Asn Gly Thr Leu Lys Gly Leu Ala Gln
1 5 10

<210> 7048
<211> 11
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<400> 7048

Ala Gln Phe Tyr Gln Glu Gln Ser Leu Ala Gln
1 5 10

<210> 7049
<211> 11
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<220>
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<400> 7049

Ala Gln Tyr Asp Gln Lys Ser Leu Ala Ala Gln
1 5 10

<210> 7050
<211> 11
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<220>
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<400> 7050

Ala Gln Leu Ser Thr Asn Arg Thr Phe Ala Gln
1 5 10

<210> 7051
<211> 11
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<400> 7051

Ala Gln Lys Gln Thr Gln Asp Ser Ser Ala Gln
1 5 10

<210> 7052
<211> 11
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<220>
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<400> 7052

Ala Gln Tyr Glu Arg Gly Pro Gln Met Ala Gln
1 5 10

<210> 7053
<211> 11
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<220>
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<400> 7053

Ala Gln Thr His Ala Asn Ser Val Arg Ala Gln
1 5 10

<210> 7054
<211> 11
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<220>

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<400> 7054

Ala Gln Ser Met Asn Thr Asn Ala Ser Ala Gln
1   5   10

<210> 7055
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<220>
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<400> 7055

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

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<400> 7056

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

<210> 7057
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<400> 7057

Ala Gln Met Arg Met Pro Val Asn Met Ala Gln
1   5   10

<210> 7058
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<213> Artificial Sequence

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<400> 7058

Ala Gln Gly Thr Ser Asn Leu Pro Ser Ala Gln
1 5 10

<210> 7059
<211> 11
<212> PRT
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<220>
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<400> 7059

Ala Gln Glu Gly Glu Met Lys Ser Pro Ala Gln
1 5 10

<210> 7060
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<220>
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<400> 7060

Ala Gln Gln Leu Gly His Asp Asn Arg Ala Gln
1 5 10

<210> 7061
<211> 11
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<220>
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<400> 7061

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

<210> 7062
<211> 11
<212> PRT
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<220>
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<400> 7062

Ala Gln Thr Gly Ala Gly Asn Gly Arg Ala Gln
1   5   10

<210> 7063
<211> 11
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<220>
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<400> 7063

Ala Gln Asn Thr Gly Ala Ala Met Met Ala Gln
1   5   10

<210> 7064
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<220>
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<400> 7064

Ala Gln Met Gly Ala Asn Thr Ser Val Ala Gln
1   5   10

<210> 7065
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<220>
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<400> 7065

Ala Gln Pro Ser Thr His Gly Gly Ser Ala Gln

1 5 10

<210> 7066
<211> 11
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<220>
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<400> 7066

Ala Gln Met Pro Gln Ser Gln Pro Asn Ala Gln
1 5 10

<210> 7067
<211> 11
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<400> 7067

Ala Gln Ser Thr Gln Ala Arg Leu Thr Ala Gln
1 5 10

<210> 7068
<211> 11
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<400> 7068

Ala Gln Ser Glu Tyr Leu Leu Asn Pro Ala Gln
1 5 10

<210> 7069
<211> 11
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<400> 7069

Ala Gln Thr Thr Gly Pro Gly Leu Asn Ala Gln
1 5 10

<210> 7070
<211> 11
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<220>
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<400> 7070

Ala Gln Pro Gly Ser Ser Val Ser Tyr Ala Gln
1 5 10

<210> 7071
<211> 11
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<220>
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<400> 7071

Ala Gln Tyr Phe Gly Ser Ala Gln Glu Ala Gln
1 5 10

<210> 7072
<211> 11
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<220>
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<400> 7072

Ala Gln Ala Val Ile Asn Asn Ala Thr Ala Gln
1 5 10

<210> 7073
<211> 11
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<220>
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<400> 7073

Ala Gln Val Ala Met Gln Asp Lys Lys Ala Gln
1   5   10

<210> 7074
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<400> 7074

Ala Gln Ala Asp Asn Met Asn Ile Lys Ala Gln
1   5   10

<210> 7075
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<400> 7075

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

<210> 7076
<211> 11
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<400> 7076

Ala Gln Met Asn Leu His Leu Lys Gly Ala Gln
1   5   10

<210> 7077
<211> 11

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<220>
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<400> 7077

Ala Gln Ser Asn Gln Ile Arg Asp Ser Ala Gln
1   5   10

<210> 7078
<211> 11
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<400> 7078

Ala Gln Val Asn Gly Gln Ser Thr Pro Ala Gln
1   5   10

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<400> 7079

Ala Gln Ile Leu Pro Gln Leu Asn Ser Ala Gln
1   5   10

<210> 7080
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<212> PRT
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<400> 7080

Ala Gln Val Gln Asp Ser Leu His Phe Ala Gln
1   5   10

<210> 7081
<211> 11
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<400> 7081

Ala Gln Asp Val Ser Asn Arg Asn Asn Ala Gln
1   5   10

<210> 7082
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<220>
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<400> 7082

Ala Gln Asp Ala Ser His Gly Ser Ser Ala Gln
1   5   10

<210> 7083
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<400> 7083

Ala Gln Arg Ala Ser Ala His Pro Pro Ala Gln
1   5   10

<210> 7084
<211> 11
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<400> 7084

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

<210> 7085
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<213> Artificial Sequence

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<400> 7085

Ala Gln Asp Lys Thr Pro Pro Val Ala Ala Gln
1   5   10

<210> 7086
<211> 11
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<400> 7086

Ala Gln Leu Asn Asp Val Thr Thr Arg Ala Gln
1   5   10

<210> 7087
<211> 11
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<400> 7087

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

<210> 7088
<211> 11
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<400> 7088

Ala Gln Asn Gly Ser Arg Asp Ala Leu Ala Gln
1 5 10

<210> 7089
<211> 11
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<400> 7089

Ala Gln Tyr Gly Val Glu Arg Met Ser Ala Gln
1 5 10

<210> 7090
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<400> 7090

Ala Gln Ala Lys Val Ala Ser Ser Phe Ala Gln
1 5 10

<210> 7091
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<400> 7091

Ala Gln His Lys Gln Ile Leu Leu Asp Ala Gln
1 5 10

<210> 7092
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<400> 7092

Ala Gln Asp Arg Ala Asn Asp Arg Ile Ala Gln
1   5   10

<210> 7093
<211> 11
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<400> 7093

Ala Gln Lys Met Ser Thr Thr Met Leu Ala Gln
1   5   10

<210> 7094
<211> 11
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<400> 7094

Ala Gln Gly Gly Glu Asn Gly Val Ile Ala Gln
1   5   10

<210> 7095
<211> 11
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<400> 7095

Ala Gln Val Thr Gln Thr Leu Ile Ser Ala Gln
1   5   10

<210> 7096

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<400> 7096

Ala Gln Leu Tyr Thr Lys Ala Leu Ile Ala Gln
1   5   10

<210> 7097
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<400> 7097

Ala Gln Thr Leu Pro Gly His Asn Arg Ala Gln
1   5   10

<210> 7098
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<400> 7098

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

<210> 7099
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<400> 7099

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

<210> 7100
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<400> 7100

Ala Gln Trp Asn Gly Thr Gly Val Ser Ala Gln
1   5   10

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<400> 7101

Ala Gln Leu Val Gln Asn Asn Thr Met Ala Gln
1   5   10

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<400> 7102

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

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<400> 7103

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

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<400> 7104

Ala Gln Leu Gly Arg Asn Asp Thr Leu Ala Gln
1   5   10

<210> 7105
<211> 11
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<400> 7105

Ala Gln Arg Ser Thr Asn Gly Glu Ala Ala Gln
1   5   10

<210> 7106
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<400> 7106

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

<210> 7107
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<400> 7107

Ala Gln Gly Lys Ser Gln Leu Leu Met Ala Gln
1   5   10

<210> 7108
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<400> 7108

Ala Gln Asn Thr Ala Thr Phe Ser Ser Ala Gln
1   5   10

<210> 7109
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<400> 7109

Ala Gln Tyr Ser Thr Thr Ile Ser Pro Ala Gln
1   5   10

<210> 7110
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<400> 7110

Ala Gln Pro Arg His Ser Val Gln Asp Ala Gln
1   5   10

<210> 7111
<211> 11
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<400> 7111

Ala Gln Asn Asn Asn Thr Lys Met Asn Ala Gln
1 5 10

<210> 7112
<211> 11
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<400> 7112

Ala Gln Leu Thr Gly His His Thr Lys Ala Gln
1 5 10

<210> 7113
<211> 11
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<400> 7113

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

<210> 7114
<211> 11
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<400> 7114

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

<210> 7115
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<400> 7115

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

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<400> 7116

Ala Gln Asn Ser Thr Glu Asn Ser Thr Ala Gln
1   5   10

<210> 7117
<211> 11
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<400> 7117

Ala Gln Ser Leu Val Ala Gln Pro Val Ala Gln
1   5   10

<210> 7118
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<400> 7118

Ala Gln His Ala Ala Thr Val Ser His Ala Gln

1 5 10

<210> 7119
<211> 11
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<400> 7119

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

<210> 7120
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<400> 7120

Ala Gln Arg Ala Asp Lys Phe Asp Tyr Ala Gln
1 5 10

<210> 7121
<211> 11
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<400> 7121

Ala Gln Ser Gln Pro Asp Val Thr Tyr Ala Gln
1 5 10

<210> 7122
<211> 11
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<400> 7122

Ala Gln Val Leu Thr Gln Gln Thr His Ala Gln
1 5 10

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<211> 11
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<400> 7123

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

<210> 7124
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<400> 7124

Ala Gln Tyr Asn Thr Arg Tyr Asp Ala Ala Gln
1 5 10

<210> 7125
<211> 11
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<400> 7125

Ala Gln Ser Ala Asn Asp Ala Arg Val Ala Gln
1 5 10

<210> 7126
<211> 11
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<400> 7126

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

<210> 7127
<211> 11
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<400> 7127

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

<210> 7128
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<400> 7128

Ala Gln Leu Ser Ala Ser His Thr Ile Ala Gln
1   5   10

<210> 7129
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<400> 7129

Ala Gln Thr Lys Val Leu Ile Glu Lys Ala Gln
1   5   10

<210> 7130
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<400> 7130

Ala Gln Met Asn Thr Leu Ile Pro Ala Ala Gln
1 5 10

<210> 7131
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<220>
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<400> 7131

Ala Gln Ser Ser Asn Val Val Thr Thr Ala Gln
1 5 10

<210> 7132
<211> 11
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<400> 7132

Ala Gln Met Asn Val Arg Pro Thr Thr Ala Gln
1 5 10

<210> 7133
<211> 11
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<400> 7133

Ala Gln Asp Thr Gly Leu Asn Asn Arg Ala Gln
1 5 10

<210> 7134
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<400> 7134

Ala Gln Thr Leu Asn Arg Asp His Met Ala Gln
1   5   10

<210> 7135
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<400> 7135

Ala Gln Leu Leu Leu Ser His His Ala Ala Gln
1   5   10

<210> 7136
<211> 11
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<400> 7136

Ala Gln Asn Pro Ala Met Ala Thr Phe Ala Gln
1   5   10

<210> 7137
<211> 11
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<400> 7137

Ala Gln Ile Ser Gln Arg Ile Tyr Ala Ala Gln
1 5 10

<210> 7138
<211> 11
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<400> 7138

Ala Gln Thr Thr Gly Val Ala Gly Ser Ala Gln
1 5 10

<210> 7139
<211> 11
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<213> Artificial Sequence

<220>
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<400> 7139

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

<210> 7140
<211> 11
<212> PRT
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<400> 7140

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

<210> 7141
<211> 11
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<400> 7141

Ala Gln Ser Lys Ala Ser Leu Asp Ser Ala Gln
1 5 10

<210> 7142
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 7142

Ala Gln Leu Leu Asn Ser His Ser Ala Ala Gln
1 5 10

<210> 7143
<211> 11
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<400> 7143

Ala Gln Ala Ser Ile His Lys Asp Ile Ala Gln
1 5 10

<210> 7144
<211> 11
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<220>
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<400> 7144

Ala Gln Ser Asp Pro Gly Lys Phe Met Ala Gln
1 5 10

<210> 7145
<211> 11
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<213> Artificial Sequence

<220>
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<400> 7145

Ala Gln Gly Thr Ser Ser Ala Gln Arg Ala Gln
1   5   10

<210> 7146
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<220>
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<400> 7146

Ala Gln Ser Thr Asn Ser Lys Leu Glu Ala Gln
1   5   10

<210> 7147
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<400> 7147

Ala Gln Asn Leu Gln Thr Val Pro Asn Ala Gln
1   5   10

<210> 7148
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<220>
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<400> 7148

Ala Gln Val Val Thr His Leu Asn Ala Ala Gln
1   5   10

<210> 7149

<211> 11
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<220>
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<400> 7149

Ala Gln Leu Ser Thr Ser Asn Asn Phe Ala Gln
1   5   10

<210> 7150
<211> 11
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<220>
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<400> 7150

Ala Gln Asn Asn Ser Gly His Ile Ser Ala Gln
1   5   10

<210> 7151
<211> 11
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<220>
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<400> 7151

Ala Gln Ala Tyr Gln Val Asn Ser Asp Ala Gln
1   5   10

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<400> 7152

Ala Gln Gln Gln Asn Tyr Leu Asn His Ala Gln
1   5   10

<210> 7153
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<220>
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<400> 7153

Ala Gln Phe Ala Thr Thr Asn Thr Gly Ala Gln
1 5 10

<210> 7154
<211> 11
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<213> Artificial Sequence

<220>
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<400> 7154

Ala Gln Leu Ala Asn Lys Ile Ala Asn Ala Gln
1 5 10

<210> 7155
<211> 11
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<220>
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<400> 7155

Ala Gln Gln Ser Phe Gln Arg Glu Val Ala Gln
1 5 10

<210> 7156
<211> 11
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<220>
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<400> 7156

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

<210> 7157
<211> 11
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<220>
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<400> 7157

Ala Gln Arg Val Gly Glu Arg Glu Gln Ala Gln
1 5 10

<210> 7158
<211> 11
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<400> 7158

Ala Gln Val Asn Ile Ile Gln Ala Ser Ala Gln
1 5 10

<210> 7159
<211> 11
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<220>
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<400> 7159

Ala Gln Gly Val Gly Leu His Asn Lys Ala Gln
1 5 10

<210> 7160
<211> 11
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<220>

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<400> 7160

Ala Gln Asn Asn Pro Ala Ile Pro Ile Ala Gln
1   5   10

<210> 7161
<211> 11
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<220>
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<400> 7161

Ala Gln Arg Leu Ser Ser Gln Ala Val Ala Gln
1   5   10

<210> 7162
<211> 11
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<400> 7162

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

<210> 7163
<211> 11
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<220>
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<400> 7163

Ala Gln Ser Leu Gly Pro Thr Thr Asn Ala Gln
1   5   10

<210> 7164
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<220>
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<400> 7164

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

<210> 7165
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<400> 7165

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

<210> 7166
<211> 11
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<400> 7166

Ala Gln Gln Val Pro Pro Leu Val Pro Ala Gln
1 5 10

<210> 7167
<211> 11
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<400> 7167

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

<210> 7168
<211> 11
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<400> 7168

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

<210> 7169
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<400> 7169

Ala Gln Arg Pro Asp Ala Thr Ser His Ala Gln
1   5   10

<210> 7170
<211> 11
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<400> 7170

Ala Gln Val Glu Lys Gln Met Leu Asn Ala Gln
1   5   10

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<220>
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<400> 7171

Ala Gln Phe Lys Ser Ala Gln Ala Thr Ala Gln

1 5 10

<210> 7172
<211> 11
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<220>
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<400> 7172

Ala Gln Trp Ala Leu Ser Thr Asp Gly Ala Gln
1 5 10

<210> 7173
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<220>
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<400> 7173

Ala Gln Leu Ala Gly Leu Ala Thr Asn Ala Gln
1 5 10

<210> 7174
<211> 11
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<220>
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<400> 7174

Ala Gln Thr Leu Thr Ala Gly Thr Pro Ala Gln
1 5 10

<210> 7175
<211> 11
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<220>
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<400> 7175

Ala Gln Ile Pro Val Thr Ser Arg Met Ala Gln
1 5 10

<210> 7176
<211> 11
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<220>
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<400> 7176

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

<210> 7177
<211> 11
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<220>
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<400> 7177

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

<210> 7178
<211> 11
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<220>
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<400> 7178

Ala Gln Asn Met Ser Met Pro Val Lys Ala Gln
1 5 10

<210> 7179
<211> 11
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<400> 7179

Ala Gln Ser Val Gly Val Gly Met Ser Ala Gln
1   5   10

<210> 7180
<211> 11
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<400> 7180

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

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<211> 11
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<400> 7181

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

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<400> 7182

Ala Gln Met His Leu Val Pro Thr Thr Ala Gln
1   5   10

<210> 7183
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<400> 7183

Ala Gln Asn Ala Pro Pro Val Ser Ser Ala Gln
1   5   10

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<400> 7184

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

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<400> 7185

Ala Gln Ile Met Gln Gly Met Thr Thr Ala Gln
1   5   10

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<400> 7186

Ala Gln Ser Arg Glu Thr Thr Ser Pro Ala Gln
1   5   10

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<400> 7187

Ala Gln Asn Pro Thr Ser Phe Ser Thr Ala Gln
1 5 10

<210> 7188
<211> 11
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<220>
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<400> 7188

Ala Gln Asn Leu Gln His Gly Ser Thr Ala Gln
1 5 10

<210> 7189
<211> 11
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<400> 7189

Ala Gln Asn Phe His Ser Gly His Thr Ala Gln
1 5 10

<210> 7190
<211> 11
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<400> 7190

Ala Gln Thr Glu Ser Val Tyr Ala Arg Ala Gln
1   5   10

<210> 7191
<211> 11
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<400> 7191

Ala Gln Thr Lys Ser Glu Ile Pro Asn Ala Gln
1   5   10

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<400> 7192

Ala Gln Thr Ser Leu Ala Asp Met Arg Ala Gln
1   5   10

<210> 7193
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<400> 7193

Ala Gln Arg Leu Lys Ala Asp Ile Thr Ala Gln
1   5   10

<210> 7194
<211> 11
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<220>
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<400> 7194

Ala Gln Leu Asn Met Asn Val Leu Ala Ala Gln
1 5 10

<210> 7195
<211> 11
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<400> 7195

Ala Gln Ser Leu Arg Pro Ile Ser Val Ala Gln
1 5 10

<210> 7196
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<400> 7196

Ala Gln Leu Ser Val Gln Leu Val Glu Ala Gln
1 5 10

<210> 7197
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<400> 7197

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

<210> 7198
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<400> 7198

Ala Gln Ile Ile Val Gly Leu Gln Pro Ala Gln
1   5   10

<210> 7199
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<400> 7199

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

<210> 7200
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<400> 7200

Ala Gln Arg Thr Asn Asp Ala Ile Val Ala Gln
1   5   10

<210> 7201
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<220>
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<400> 7201

Ala Gln Phe Ser Glu His Arg Glu Leu Ala Gln
1   5   10

<210> 7202

<211> 11
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<220>
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<400> 7202

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

<210> 7203
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<220>
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<400> 7203

Ala Gln Leu Arg Ala Ser Ile Thr Val Ala Gln
1 5 10

<210> 7204
<211> 11
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<220>
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<400> 7204

Ala Gln Trp Leu Gly Ile Thr Glu Ala Ala Gln
1 5 10

<210> 7205
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<220>
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<400> 7205

Ala Gln Ser Ser Gln Lys Ala Ala Glu Ala Gln
1 5 10

<210> 7206
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<400> 7206

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

<210> 7207
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<213> Artificial Sequence

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<400> 7207

Ala Gln Lys Gly Asn Ala Asn Asp Leu Ala Gln
1   5   10

<210> 7208
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<220>
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<400> 7208

Ala Gln Thr Ser Ala Pro Leu Lys Leu Ala Gln
1   5   10

<210> 7209
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<220>
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<400> 7209

Ala Gln Pro Val Gln Thr Asn Gly His Ala Gln
1 5 10

<210> 7210
<211> 11
<212> PRT
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<220>
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<400> 7210

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

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<400> 7212

Ala Gln Val Met Thr Val Gly Ser Leu Ala Gln
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<400> 7213

Ala Gln Ala Leu Asn Lys Glu Asn Trp Ala Gln
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Ala Gln His His His Leu Thr Gly Asn Ala Gln
1   5   10

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Ala Gln Gly Met Arg Thr Val Asn Ile Ala Gln
1   5   10

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Ala Gln Thr Leu Asn Ser Ser Val Ala Ala Gln
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Ala Gln Ser Ala Ser Thr Ile Leu Val Ala Gln
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Ala Gln Glu Met Ile Arg Pro Arg Ala Ala Gln
1 5 10

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<400> 7219

Ala Gln Met Ser Ala Ala Ser Tyr Lys Ala Gln
1 5 10

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<400> 7220

Ala Gln His Phe Thr Thr Gly Ser Val Ala Gln
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<400> 7221

Ala Gln Ala Ser His Thr Ile Gly Leu Ala Gln
1   5   10

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<400> 7222

Ala Gln Ser Arg Glu His Gln Leu Tyr Ala Gln
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<400> 7223

Ala Gln Ala Gly Thr Thr Ala Pro Leu Ala Gln
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<400> 7224

Ala Gln Gly Lys Val Ser Gly Ala Met Ala Gln

1 5 10

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<400> 7225

Ala Gln Lys Leu Ser Gly Met Ser Val Ala Gln
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<400> 7226

Ala Gln Val Leu Pro Lys Asp Asp Ala Ala Gln
1 5 10

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<400> 7227

Ala Gln Leu Ala Gly Ile Leu Thr Thr Ala Gln
1 5 10

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<400> 7228

Ala Gln Val Val Pro Gly Ala Gln Thr Ala Gln
1 5 10

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<400> 7229

Ala Gln Gly Gln His Ser Tyr Ala His Ala Gln
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Ala Gln His His Leu Ser Thr Ser Ile Ala Gln
1 5 10

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<400> 7231

Ala Gln Thr Leu Ile Pro Pro Asn Pro Ala Gln
1 5 10

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<400> 7232

Ala Gln Glu Met His Asn Pro Arg Ala Ala Gln
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<400> 7233

Ala Gln Ile Glu Asn Pro Pro Arg Gly Ala Gln
1   5   10

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

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Ala Gln Ala Glu Ala Ser Ala Ser Arg Ala Gln
1   5   10

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<400> 7236

Ala Gln Leu Val Lys Gly Asp Ala Arg Ala Gln
1   5   10

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<400> 7237

Ala Gln Gln Gly His Thr His Gly Asn Ala Gln
1   5   10

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Ala Gln Gln Lys Pro Thr Ser Thr Phe Ala Gln
1   5   10

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<400> 7239

Ala Gln Lys Leu Ala Ala Leu Gly Ala Ala Gln
1   5   10

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<400> 7240

Ala Gln Ser Ser Val Asp Gln Met Lys Ala Gln
1 5 10

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<400> 7241

Ala Gln Gly Ile Val Thr Ala Pro Leu Ala Gln
1 5 10

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<400> 7242

Ala Gln Leu Leu Lys Met Pro Ser Pro Ala Gln
1 5 10

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Ala Gln Asn Val Ala His Thr Val Arg Ala Gln
1   5   10

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<400> 7244

Ala Gln Leu Met Ser Thr Asn Val Ser Ala Gln
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Ala Gln Leu Ser Asn Asn Asn Ala Leu Ala Gln
1   5   10

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<400> 7246

Ala Gln Leu Leu Ile Gly Pro Thr Gly Ala Gln
1   5   10

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<400> 7247

Ala Gln Val Arg Asn Thr Met Ile Ser Ala Gln
1 5 10

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<400> 7248

Ala Gln Gly Ala Thr Gly His Leu Thr Ala Gln
1 5 10

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<400> 7249

Ala Gln Met Thr Val Gly Asn Leu Gly Ala Gln
1 5 10

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<400> 7250

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

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<400> 7251

Ala Gln Arg Asn Glu Asn Glu Ser Arg Ala Gln
1   5   10

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<400> 7252

Ala Gln Gly Asn Ala Arg Asp Ala Ser Ala Gln
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Ala Gln Ile Ser Lys Leu Leu Leu Ser Ala Gln
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<400> 7254

Ala Gln Asn Asp Thr Thr Asn Met Ser Ala Gln
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<400> 7255

Ala Gln Gly Leu Glu Ala Asn Lys Ser Ala Gln
1 5 10

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<400> 7256

Ala Gln His Tyr Ser Thr Val Gly Val Ala Gln
1 5 10

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<400> 7257

Ala Gln Pro Thr Ile Ser Val Leu Pro Ala Gln
1 5 10

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<400> 7258

Ala Gln Val Gln Thr Ile Gly His Glu Ala Gln
1 5 10

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<400> 7259

Ala Gln Lys Pro Glu Thr Ala Ser Asp Ala Gln
1   5   10

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<400> 7260

Ala Gln Thr Asn Thr Pro Thr Ser Arg Ala Gln
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<400> 7261

Ala Gln Ser Leu Thr Leu Ser Ser His Ala Gln
1   5   10

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<400> 7262

Ala Gln His Tyr His Ser Ile Gln Ala Ala Gln
1 5 10

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<400> 7263

Ala Gln Tyr His Gly Glu Asn Glu Arg Ala Gln
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Ala Gln Leu Pro His Thr Ala Arg Val Ala Gln
1 5 10

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<400> 7265

Ala Gln Thr Arg Glu Gly Ser Thr Gly Ala Gln
1 5 10

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Ala Gln Val Asp Arg Arg Ala Met Leu Ala Gln
1   5   10

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<400> 7267

Ala Gln Thr Ser Val Ser Ala Val Met Ala Gln
1   5   10

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1   5   10

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<400> 7269

Ala Gln Arg Leu Pro Ser Leu Ser Val Ala Gln
1   5   10

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Ala Gln Ser Val Ser Glu Gly Ser Arg Ala Gln
1 5 10

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<400> 7271

Ala Gln Ser Ile Pro Ser Val Ser Ala Ala Gln
1 5 10

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<400> 7272

Ala Gln Thr Thr Asn Asn Ala Lys Ser Ala Gln
1 5 10

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<400> 7273

Ala Gln Ala Ser Gly Glu Ala Ser Thr Ala Gln
1 5 10

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Ala Gln Asp Asn Asn Ser Ser Ile Ala Ala Gln
1   5   10

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Ala Gln Val His Asp Asn Ser Lys Leu Ala Gln
1   5   10

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Ala Gln Ser Thr Leu Ala Gly Ser Glu Ala Gln
1   5   10

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<400> 7277

Ala Gln Pro Glu Lys Ser His Ser Ser Ala Gln

1 5 10

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<400> 7278

Ala Gln Gln Met Leu Arg Ala Ser Val Ala Gln
1 5 10

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<400> 7279

Ala Gln Ala Leu Ser Asn Asn Ile Thr Ala Gln
1 5 10

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<400> 7280

Ala Gln Ser Leu Ala Asn Gln Leu Pro Ala Gln
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<400> 7281

Ala Gln Glu Gln Ser Arg Leu Gln Thr Ala Gln
1 5 10

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

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Ala Gln Ser His Lys Leu Ser Ser Ser Ala Gln
1 5 10

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Ala Gln Pro Thr Asn Thr Lys Thr Ala Ala Gln
1 5 10

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

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<400> 7289

Ala Gln Thr Leu Gly Leu Asn Thr Asn Ala Gln
1 5 10

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Ala Gln Pro Leu Ser Asn His Gly Thr Ala Gln
1 5 10

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Ala Gln Ala Val Ser Arg Leu Pro Met Ala Gln
1 5 10

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<400> 7292

Ala Gln Leu Leu Thr Glu Ser Lys Met Ala Gln
1 5 10

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<400> 7293

Ala Gln His Met Arg Thr Asp Thr Ala Ala Gln
1   5   10

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<400> 7294

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

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Ala Gln Asn Pro Asn Gly Val Thr Val Ala Gln
1   5   10

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Ala Gln Thr Thr Lys Leu Pro Thr Leu Ala Gln
1   5   10

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<400> 7297

Ala Gln Asn Ser Thr Ser Lys Gln Leu Ala Gln
1   5   10

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<400> 7298

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

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<400> 7299

Ala Gln Pro Arg Ala Thr Asp Pro Gln Ala Gln
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<400> 7300

Ala Gln Ser Leu Leu Asn Lys Thr Thr Ala Gln
1 5 10

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<400> 7301

Ala Gln Gln Lys Ser Asp Gly Ser Pro Ala Gln
1 5 10

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<400> 7302

Ala Gln Thr Val Ser Gly Phe Thr Lys Ala Gln
1 5 10

<210> 7303
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<400> 7303

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

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<400> 7304

Ala Gln Gly Ala His Ile Ser Asn Pro Ala Gln
1   5   10

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<400> 7305

Ala Gln Glu Pro Ser Ile Pro Arg Pro Ala Gln
1   5   10

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<400> 7306

Ala Gln Gly Thr Val Gln Ala Arg Gln Ala Gln
1   5   10

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<400> 7307

Ala Gln Asn Asn His Asn Tyr Val Asp Ala Gln
1   5   10

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<400> 7308

Ala Gln Arg Thr Ala Ser Val Ser Leu Ala Gln
1 5 10

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<400> 7309

Ala Gln Ile Ser Met Asp Asn His Arg Ala Gln
1 5 10

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<400> 7310

Ala Gln Ser Asp Gly His Asn His Ser Ala Gln
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<400> 7311

Ala Gln Ser Ala Gly Ser Gly Ile Gly Ala Gln
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Ala Gln Lys Ala Thr Leu Ser Glu Lys Ala Gln
1   5   10

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<400> 7313

Ala Gln Ile His Ala Gly Gly Gln Arg Ala Gln
1   5   10

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<400> 7314

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

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<400> 7315

Ala Gln Asp Gly Lys Ala Tyr Asn His Ala Gln
1 5 10

<210> 7316
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<400> 7316

Ala Gln Trp Ser Ala Gln Thr Met Asn Ala Gln
1 5 10

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<400> 7317

Ala Gln Asn Ser Thr Arg Ile Ile Val Ala Gln
1 5 10

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Ala Gln Lys Asn Ser Ser Met Leu Leu Ala Gln
1 5 10

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Ala Gln Arg Gln Val Ser Gly Thr Ser Ala Gln
1   5   10

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Ala Gln Pro Val Thr Gly Asn Ser Asp Ala Gln
1   5   10

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Ala Gln Met Tyr Pro Asp Arg His Ser Ala Gln
1   5   10

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<400> 7322

Ala Gln Thr Tyr Gln Ile Gly Ala Val Ala Gln
1   5   10

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<400> 7323

Ala Gln Lys Thr Gly Ser Leu Ser Ala Ala Gln
1 5 10

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<400> 7324

Ala Gln Ile Ile Pro Ala Ser Ser Pro Ala Gln
1 5 10

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<400> 7325

Ala Gln Asp Asn Gln Gly Thr Lys His Ala Gln
1 5 10

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Ala Gln Ala Ile Ile Ser Asn Asn Arg Ala Gln
1   5   10

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Ala Gln Thr Asp Gln Ile Arg Thr Tyr Ala Gln
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Ala Gln His Ser Ala Thr Asn Ile Asp Ala Gln
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Ala Gln Gly Thr Val Asn Ile Ser Ala Ala Gln

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<400> 7331

Ala Gln Ala Val Val Pro Ala Met Gln Ala Gln
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Ala Gln Ile Pro Arg Ser Asp Pro Ser Ala Gln
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Ala Gln Thr Lys Tyr Thr Leu Gln Ser Ala Gln
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Ala Gln Ser Leu Arg Glu Thr Ser Ile Ala Gln
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Ala Gln Glu Gly Asp Asn Lys Arg Leu Ala Gln
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Ala Gln Ile Val Ser Ser Thr Ser Ser Ala Gln
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Ala Gln Leu Val Asn Ser Gly Ala His Ala Gln
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<400> 7338

Ala Gln Arg Thr Ser Asp Asn Gln Thr Ala Gln
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<400> 7339

Ala Gln Pro Asp Gly Lys Ser Leu Ala Ala Gln
1   5   10

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<400> 7340

Ala Gln His Lys Asn Met Leu Glu Thr Ala Gln
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Ala Gln Leu Ser Pro Gly Val Thr Ala Ala Gln
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<400> 7342

Ala Gln Thr Asn His Thr Arg Asn Thr Ala Gln
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<400> 7344

Ala Gln Leu Leu Lys Ile Glu Gln Met Ala Gln
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<400> 7346

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Ala Gln Asp Met His Ser Gly Val Lys Ala Gln
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Ala Gln Pro Ser Ser Pro Ile Pro Asn Ala Gln
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<400> 7349

Ala Gln Leu Ser Ser Thr Leu Asp Asp Ala Gln
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Ala Gln Pro Asn Thr Ala His Ser Ser Ala Gln
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Ala Gln Ala Thr Arg Val Asp Val Ile Ala Gln
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<400> 7352

Ala Gln Ser Thr Asn Val Thr Thr Val Ala Gln
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<400> 7353

Ala Gln Tyr Gly Asn Asn Ser Phe Ser Ala Gln
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Ala Gln Pro Thr Ala Lys Pro Met Tyr Ala Gln
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Ala Gln Leu Pro Asn Leu Pro Thr Ile Ala Gln
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Ala Gln Thr Arg Leu Pro Asn Ile Ser Ala Gln
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<400> 7357

Ala Gln His Lys His Ser Thr Gln Gly Ala Gln
1   5   10

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<400> 7358

Ala Gln Asn Gly Thr Asn Gly Phe Thr Ala Gln
1   5   10

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<400> 7359

Ala Gln Ser Thr Asp Ala Ile Arg Phe Ala Gln
1   5   10

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<400> 7360

Ala Gln Leu Val Arg Asp His Thr Ala Ala Gln
1   5   10

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Ala Gln Ile Ser Leu Gly Tyr Ser Lys Ala Gln
1 5 10

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Ala Gln Leu Phe Gly Ser Ser His Thr Ala Gln
1 5 10

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<400> 7363

Ala Gln Ser Thr Ile Thr Pro Arg Leu Ala Gln
1 5 10

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<400> 7364

Ala Gln Gln Ile Thr Asn Gly Leu Arg Ala Gln
1 5 10

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<400> 7365

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

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

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Ala Gln Glu Arg Ser Pro Thr Ile Leu Ala Gln
1 5 10

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Ala Gln His Gly Asp Ser Ala Arg Thr Ala Gln
1 5 10

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Ala Gln Leu Ser Val Pro Asn Gln Gln Ala Gln
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Ala Gln Ser Asp Gly Pro Val Pro Arg Ala Gln
1 5 10

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Ala Gln Asn Met Asn His Ile Ala Ser Ala Gln
1 5 10

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Ala Gln Val Pro Asn Ser Pro Gln Arg Ala Gln
1   5   10

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Ala Gln Asp Arg Met Ala Ser Ser Arg Ala Gln
1   5   10

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

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Ala Gln Glu Gln Arg Thr Pro Ser Pro Ala Gln
1 5 10

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Ala Gln Gln His Leu Asn Gly Ser Ile Ala Gln
1 5 10

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

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<400> 7380

Ala Gln Gly Asn Pro Asn Asp Arg Gln Ala Gln
1   5   10

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<400> 7381

Ala Gln Thr Asp Lys Ala Val Gln Ile Ala Gln
1   5   10

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<400> 7382

Ala Gln Glu Lys Tyr Thr Gly Ser Pro Ala Gln
1   5   10

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<400> 7383

Ala Gln Leu Ala Gly Ser Arg Asn Leu Ala Gln

1 5 10

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Ala Gln Met Ile Pro Ser Thr Asn Phe Ala Gln
1 5 10

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<400> 7385

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

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<400> 7386

Ala Gln Ser Val Ser Asn Ala Phe Ser Ala Gln
1 5 10

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Ala Gln Gln Gly Gly Gln Ala Leu Arg Ala Gln
1 5 10

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<400> 7388

Ala Gln His Pro Gly Gln Thr Leu Ser Ala Gln
1 5 10

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<400> 7389

Ala Gln Lys Glu Tyr Asn Thr Tyr Ser Ala Gln
1 5 10

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Ala Gln Thr His Thr Ala Gln Pro Ser Ala Gln
1 5 10

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Ala Gln Met Thr Pro Gln Val Pro Arg Ala Gln
1   5   10

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<400> 7392

Ala Gln Thr Arg Val Ser Ser Leu Ala Ala Gln
1   5   10

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<400> 7393

Ala Gln His Ala Asp Leu Lys Ile Val Ala Gln
1   5   10

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<400> 7394

Ala Gln Asn Arg Asn Thr Asp Thr Val Ala Gln
1   5   10

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<400> 7395

Ala Gln Ala His Lys Asp Asn His Leu Ala Gln
1 5 10

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<400> 7396

Ala Gln Ser Val Pro Val Pro Ala Ala Ala Gln
1 5 10

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<400> 7397

Ala Gln Gln Thr Asn Ser Ala Leu Met Ala Gln
1 5 10

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<400> 7398

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

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<400> 7399

Ala Gln Ser Ser Val Ala Leu Val Val Ala Gln
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Ala Gln Met Asn Ala Ala Thr Thr Gln Ala Gln
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Ala Gln Met Val Ser Thr Ala Lys Asp Ala Gln
1   5   10

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<400> 7402

Ala Gln Leu Gly Gln Met Tyr Ser Pro Ala Gln
1   5   10

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<400> 7403

Ala Gln Asp Ser Lys Glu Lys Pro Asn Ala Gln
1   5   10

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<400> 7404

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

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<400> 7405

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

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<400> 7406

Ala Gln Ile Tyr Ser Pro Thr Thr Val Ala Gln
1 5 10

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<400> 7407

Ala Gln Ser Gln Ser Lys Glu Leu Arg Ala Gln
1 5 10

<210> 7408
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<400> 7408

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

<210> 7409
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<400> 7409

Ala Gln Thr Ile Ile Asn Ser Ser Lys Ala Gln
1 5 10

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<400> 7410

Ala Gln Pro Val Ser Ala Gln Pro Val Ala Gln
1   5   10

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<400> 7411

Ala Gln Ser Asn Glu Ala Val Thr Asn Ala Gln
1   5   10

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<400> 7412

Ala Gln Ala Ser Met Gln Met Asn Arg Ala Gln
1   5   10

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<400> 7413

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

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<400> 7414

Ala Gln Ser Gln Val Asn Pro Ser Ser Ala Gln
1   5   10

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<400> 7415

Ala Gln Ile Thr Thr Asp Gln Pro Phe Ala Gln
1   5   10

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<400> 7416

Ala Gln Asn Asn Gly Ser Gly Ser Tyr Ala Gln
1   5   10

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<400> 7417

Ala Gln Thr Leu Ala Arg Ser Ser Val Ala Gln
1   5   10

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<400> 7418

Ala Gln Asn Ala Ser Thr Met Thr Arg Ala Gln
1   5   10

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<400> 7419

Ala Gln Thr Asn Gln Val Arg Tyr Val Ala Gln
1   5   10

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<400> 7420

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

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<400> 7421

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

<210> 7422
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<400> 7422

Ala Gln Pro Gly Ser His Val Val Ala Ala Gln
1 5 10

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<400> 7423

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

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<400> 7424

Ala Gln Ala His Gly Gln Val Gln Glu Ala Gln
1 5 10

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<400> 7425

Ala Gln Ala Leu Ser His Asp Leu Ser Ala Gln
1   5   10

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<400> 7426

Ala Gln Leu Gly Ser Ser Leu Thr Ala Ala Gln
1   5   10

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<400> 7427

Ala Gln Gly Asn Asn Thr Ala Lys Leu Ala Gln
1   5   10

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<400> 7428

Ala Gln Asn Tyr Ala Gln Ser Ala Leu Ala Gln
1   5   10

<210> 7429
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<400> 7429

Ala Gln Asp Ser Gln Ser Lys Thr Phe Ala Gln
1 5 10

<210> 7430
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<400> 7430

Ala Gln Thr Asn His Val Lys Phe Thr Ala Gln
1 5 10

<210> 7431
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<400> 7431

Ala Gln Ser Thr Pro Thr His Gly Leu Ala Gln
1 5 10

<210> 7432
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<400> 7432

Ala Gln Ser Val Gly Leu Thr Met Val Ala Gln
1 5 10

<210> 7433
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<400> 7433

Ala Gln Ile Pro Lys Gly Ser Gly Ala Ala Gln
1   5   10

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<400> 7434

Ala Gln Thr Ala Gln Ala Arg Val Leu Ala Gln
1   5   10

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<400> 7435

Ala Gln Trp His Ala Gly Ser Val Gly Ala Gln
1   5   10

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<400> 7436

Ala Gln Ser Gln Ser Leu Leu Val Glu Ala Gln

1 5 10

<210> 7437
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<400> 7437

Ala Gln Asn Asn Ser Gly Pro Leu Lys Ala Gln
1 5 10

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<400> 7438

Ala Gln Arg Asp Asn Ala Ile Glu His Ala Gln
1 5 10

<210> 7439
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<400> 7439

Ala Gln Thr Met Ser Asn Ile Thr Arg Ala Gln
1 5 10

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<400> 7440

Ala Gln Leu Ser Thr Leu Ser Gln Met Ala Gln
1 5 10

<210> 7441
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<400> 7441

Ala Gln Val Met Gln Asn Tyr Gly Ser Ala Gln
1 5 10

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<400> 7442

Ala Gln Thr His Ser Ala Gln Gln Asn Ala Gln
1 5 10

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<400> 7443

Ala Gln Ser Val Pro Pro Asn Arg Asn Ala Gln
1 5 10

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<400> 7444

Ala Gln Ser Val Ala Ala Ser Pro Arg Ala Gln
1   5   10

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<400> 7445

Ala Gln Asn Asn Thr Ser Thr Leu His Ala Gln
1   5   10

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<400> 7446

Ala Gln Asn Leu Ser Asp His Met Pro Ala Gln
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<400> 7447

Ala Gln Gly Leu Tyr Ala Thr Thr Ser Ala Gln
1   5   10

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Ala Gln Arg Asn Gly Gly Ala Asn Val Ala Gln
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Ala Gln Phe His Asn Leu Thr Leu Ser Ala Gln
1   5   10

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<400> 7450

Ala Gln Trp Lys Ser Pro Ala Ala Ile Ala Gln
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Ala Gln Pro Lys Gly Leu Ser Gly Glu Ala Gln
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<400> 7452

Ala Gln Ser His Tyr Gln Leu His Pro Ala Gln
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<400> 7453

Ala Gln Thr Thr Phe Arg Ser Ala Pro Ala Gln
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<400> 7454

Ala Gln Tyr Asp Ala Thr His Ser Ala Ala Gln
1   5   10

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Ala Gln Asn Gln Ser Gly Pro Leu Lys Ala Gln
1 5 10

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<400> 7456

Ala Gln His Thr Asn Met Thr Ser Met Ala Gln
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<400> 7457

Ala Gln His Met Lys Ser Gln Leu Pro Ala Gln
1 5 10

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<400> 7458

Ala Gln Lys Leu Pro Thr Met Ala Asn Ala Gln
1 5 10

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<400> 7459

Ala Gln Val Gly Thr Asn Ala Asn His Ala Gln
1 5 10

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<400> 7460

Ala Gln Leu Lys Thr Asp Pro Phe Leu Ala Gln
1 5 10

<210> 7461
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<400> 7461

Ala Gln His Leu Gln Gln Asn Leu Thr Ala Gln
1 5 10

<210> 7462
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<400> 7462

Ala Gln Thr Gln Asn Lys Asn Ser His Ala Gln
1 5 10

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<400> 7463

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

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<400> 7464

Ala Gln Gly Ser Gly His Ser Thr Leu Ala Gln
1   5   10

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<400> 7465

Ala Gln Leu Thr Gly Arg Leu Glu Lys Ala Gln
1   5   10

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<400> 7466

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

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<400> 7467

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

<210> 7468
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<400> 7468

Ala Gln Ile Ala Ser Thr Tyr Ser Ser Ala Gln
1   5   10

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<400> 7469

Ala Gln Thr Ile Asn His Ala Thr Ser Ala Gln
1   5   10

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<400> 7470

Ala Gln Ala Met Asn Asn Arg Ala His Ala Gln
1   5   10

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<400> 7471

Ala Gln Ser His His Glu Gln Val Ser Ala Gln
1 5 10

<210> 7472
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<400> 7472

Ala Gln Ser Gly Val Thr Ser Lys Leu Ala Gln
1 5 10

<210> 7473
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<400> 7473

Ala Gln Val Phe Thr Asn Asp Val Pro Ala Gln
1 5 10

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<400> 7474

Ala Gln Ala Ala Val Leu Val Ala Pro Ala Gln
1 5 10

<210> 7475
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<400> 7475

Ala Gln Pro Thr Ala Gly Arg Tyr Leu Ala Gln
1 5 10

<210> 7476
<211> 11
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<400> 7476

Ala Gln His Leu Asn Ser Gln Asn Met Ala Gln
1 5 10

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<400> 7477

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

<210> 7478
<211> 11
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<220>

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<400> 7478

Ala Gln Ala Ser Glu Asn Leu Arg Ser Ala Gln
1   5   10

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<400> 7479

Ala Gln Asn Ser Pro Met Arg Thr Ala Ala Gln
1   5   10

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<400> 7480

Ala Gln Val Ala Gly Thr Asn Gln Pro Ala Gln
1   5   10

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<400> 7481

Ala Gln Gly Ser Glu Ser Ser Met Arg Ala Gln
1   5   10

<210> 7482
<211> 11
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<400> 7482

Ala Gln Thr Leu Ala Ser Ala Ser Arg Ala Gln
1 5 10

<210> 7483
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<400> 7483

Ala Gln Ile Ser Gln Ser Trp Thr Ala Ala Gln
1 5 10

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<400> 7484

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

<210> 7485
<211> 11
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<213> Artificial Sequence

<220>
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<400> 7485

Ala Gln Pro Asn Ile Lys Thr Asp Leu Ala Gln
1 5 10

<210> 7486
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<213> Artificial Sequence

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<400> 7486

Ala Gln Trp Gln Ala Thr Asp Thr Ala Ala Gln
1   5   10

<210> 7487
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<400> 7487

Ala Gln Asn Asn Asn Val Val Thr Tyr Ala Gln
1   5   10

<210> 7488
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<400> 7488

Ala Gln Lys Ala Ile Ser Thr Ala Asn Ala Gln
1   5   10

<210> 7489
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<400> 7489

Ala Gln Arg Gln Glu Val Ser Gly Asn Ala Gln

1 5 10

<210> 7490
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<213> Artificial Sequence

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<400> 7490

Ala Gln Trp Gln Asp Leu Asn Val Val Ala Gln
1 5 10

<210> 7491
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<400> 7491

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

<210> 7492
<211> 11
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<400> 7492

Ala Gln Ile Gly Ser Ser Thr Lys Pro Ala Gln
1 5 10

<210> 7493
<211> 11
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<220>
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<400> 7493

Ala Gln Ser Pro Ile Ile Asn Thr Ser Ala Gln
1 5 10

<210> 7494
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<400> 7494

Ala Gln Asp Lys Asp Thr Ala Ala Pro Ala Gln
1 5 10

<210> 7495
<211> 11
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<220>
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<400> 7495

Ala Gln Ser Lys Val Asp Ser Ser Tyr Ala Gln
1 5 10

<210> 7496
<211> 11
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<213> Artificial Sequence

<220>
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<400> 7496

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

<210> 7497
<211> 11
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<213> Artificial Sequence

<220>
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<400> 7497

Ala Gln Thr Arg Thr Ser Pro Ile Gln Ala Gln
1   5   10

<210> 7498
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<213> Artificial Sequence

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<400> 7498

Ala Gln Leu Thr Ser Ala Thr Thr Asn Ala Gln
1   5   10

<210> 7499
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<400> 7499

Ala Gln Thr Ile Asn Ile His Ser Ala Ala Gln
1   5   10

<210> 7500
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<400> 7500

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

<210> 7501
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<212> PRT
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<400> 7501

Ala Gln Gly Met Ala Leu Gly Thr Gly Ala Gln
1 5 10

<210> 7502
<211> 11
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<220>
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<400> 7502

Ala Gln Tyr Asn Gly Thr Gln Gly Arg Ala Gln
1 5 10

<210> 7503
<211> 11
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<400> 7503

Ala Gln Asn Lys Leu Leu Glu His Pro Ala Gln
1 5 10

<210> 7504
<211> 11
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<220>
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<400> 7504

Ala Gln Tyr Val Asn Asn Val Ala Pro Ala Gln
1 5 10

<210> 7505
<211> 11
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<400> 7505

Ala Gln Tyr Ser Val Val His Asp Lys Ala Gln
1   5   10

<210> 7506
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<400> 7506

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

<210> 7507
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<400> 7507

Ala Gln Ala Pro Asn Leu Met Ala Asp Ala Gln
1   5   10

<210> 7508
<211> 11
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<400> 7508

Ala Gln Asn Ser Asn Gly Met Ala Pro Ala Gln
1   5   10

<210> 7509
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<400> 7509

Ala Gln Ser Leu Asn Tyr Ser Gln Asn Ala Gln
1   5   10

<210> 7510
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<400> 7510

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

<210> 7511
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<400> 7511

Ala Gln Pro Leu Gly His Val Arg Ser Ala Gln
1   5   10

<210> 7512
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<400> 7512

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

<210> 7513
<211> 11
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<400> 7513

Ala Gln Val Ile Arg Ser Asn Thr His Ala Gln
1 5 10

<210> 7514
<211> 11
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<400> 7514

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

<210> 7515
<211> 11
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<400> 7515

Ala Gln Trp Ala Gln Arg Thr Ser Gln Ala Gln
1 5 10

<210> 7516
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<400> 7516

Ala Gln Asn Asp Lys Gly Met Ser Arg Ala Gln
1   5   10

<210> 7517
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<400> 7517

Ala Gln Gln Asn Asp Thr Arg Asn Tyr Ala Gln
1   5   10

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<400> 7518

Ala Gln Gly Glu Val Ala Gly Arg Leu Ala Gln
1   5   10

<210> 7519
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<400> 7519

Ala Gln Thr Thr Thr Asn Thr Val Ser Ala Gln
1   5   10

<210> 7520

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<400> 7520

Ala Gln Pro Val Met Ser Asn Lys Asp Ala Gln
1   5   10

<210> 7521
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<400> 7521

Ala Gln Asn Gly Gly Thr Thr Phe Ile Ala Gln
1   5   10

<210> 7522
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<400> 7522

Ala Gln Val Leu Lys Thr Thr Ala Ile Ala Gln
1   5   10

<210> 7523
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<400> 7523

Ala Gln Pro His Gly Val Gly Ser Ala Ala Gln
1   5   10

<210> 7524
<211> 11
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<400> 7524

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

<210> 7525
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<400> 7525

Ala Gln Lys Ser Thr Ser Leu Asp Pro Ala Gln
1   5   10

<210> 7526
<211> 11
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<400> 7526

Ala Gln Phe Asn Lys Thr Asn Asp Met Ala Gln
1   5   10

<210> 7527
<211> 11
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<220>
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<400> 7527

Ala Gln His Gln Thr Ser Glu Leu Arg Ala Gln
1 5 10

<210> 7528
<211> 11
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<220>
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<400> 7528

Ala Gln Trp Ala Lys Val Leu Asp Lys Ala Gln
1 5 10

<210> 7529
<211> 11
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<400> 7529

Ala Gln Met Ser Ser Asn Asn Lys Ser Ala Gln
1 5 10

<210> 7530
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<400> 7530

Ala Gln Asp Gly Thr His Leu Lys Leu Ala Gln
1 5 10

<210> 7531
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<400> 7531

Ala Gln Thr Val Ile Ser Asp Gln Arg Ala Gln
1   5   10

<210> 7532
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<400> 7532

Ala Gln Met His Ser Gln Leu Leu Pro Ala Gln
1   5   10

<210> 7533
<211> 11
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<220>
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<400> 7533

Ala Gln Ser Ser Tyr Gly Thr Ala Ala Ala Gln
1   5   10

<210> 7534
<211> 11
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<220>
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<400> 7534

Ala Gln Val Leu Ser Thr Met Ala Val Ala Gln
1   5   10

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<220>
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<400> 7535

Ala Gln Ser Ala Ser Asn Phe Ala Ser Ala Gln
1 5 10

<210> 7536
<211> 11
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<220>
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<400> 7536

Ala Gln Ser Lys Ala Gly Leu Ser Asp Ala Gln
1 5 10

<210> 7537
<211> 11
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<220>
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<400> 7537

Ala Gln Ile Asn Arg Ile Val Ser Gly Ala Gln
1 5 10

<210> 7538
<211> 11
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<400> 7538

Ala Gln Lys Leu Asp Thr Pro Gly Lys Ala Gln
1 5 10

<210> 7539
<211> 11
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<400> 7539

Ala Gln Met Asp Arg Ile Val Lys Met Ala Gln
1   5   10

<210> 7540
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<400> 7540

Ala Gln Arg Glu Arg Ser Thr Asp Ala Ala Gln
1   5   10

<210> 7541
<211> 11
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<400> 7541

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

<210> 7542
<211> 11
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<220>
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<400> 7542

Ala Gln Met Arg Gly Gln Gly Val His Ala Gln

1 5 10

<210> 7543
<211> 11
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<220>
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<400> 7543

Ala Gln Ser Ala Gln Met Ile Ser Pro Ala Gln
1 5 10

<210> 7544
<211> 11
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<220>
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<400> 7544

Ala Gln Trp Thr Asn Gly Val Ala Lys Ala Gln
1 5 10

<210> 7545
<211> 11
<212> PRT
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<220>
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<400> 7545

Ala Gln Thr Ala Ile Ser Ile Gln Val Ala Gln
1 5 10

<210> 7546
<211> 11
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<400> 7546

Ala Gln Pro Ser Gly Ser Gln Ser His Ala Gln
1 5 10

<210> 7547
<211> 11
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<220>
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<400> 7547

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

<210> 7548
<211> 11
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<220>
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<400> 7548

Ala Gln Ile Ala Leu Glu His Arg Asn Ala Gln
1 5 10

<210> 7549
<211> 11
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<400> 7549

Ala Gln Pro Ala Arg Thr Pro Pro Gln Ala Gln
1 5 10

<210> 7550
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<400> 7550

Ala Gln Met Gly Lys Ser Asn Gly Val Ala Gln
1   5   10

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<400> 7551

Ala Gln Pro Ile Val Arg Ser Thr Ser Ala Gln
1   5   10

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<400> 7552

Ala Gln Val Thr Gln Leu Ser Pro Arg Ala Gln
1   5   10

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<400> 7553

Ala Gln Lys Ala Leu Leu Pro Leu Thr Ala Gln
1   5   10

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

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<400> 7555

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

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<400> 7556

Ala Gln Asn Leu Gln Asn Met Ile Gln Ala Gln
1   5   10

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<400> 7557

Ala Gln Ser Ser Tyr Asp Lys Ser Leu Ala Gln
1   5   10

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<400> 7558

Ala Gln Val Leu Ala Asn Gln Gln Ile Ala Gln
1   5   10

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<400> 7559

Ala Gln Arg Thr Thr Asn Glu Pro Thr Ala Gln
1   5   10

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<400> 7560

Ala Gln Ile Val Ser Asn Gln Met Ser Ala Gln
1   5   10

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<400> 7561

Ala Gln Asn Ala Thr His Ala Asn Val Ala Gln
1   5   10

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<400> 7562

Ala Gln Lys Gly Asn Glu Pro Leu Arg Ala Gln
1   5   10

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<400> 7563

Ala Gln Leu Gly Thr Tyr Leu Ser Pro Ala Gln
1   5   10

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<400> 7564

Ala Gln Thr Asn Val Leu Pro Leu Pro Ala Gln
1   5   10

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<400> 7565

Ala Gln Lys Leu Ser His Glu Pro Ser Ala Gln
1 5 10

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<400> 7566

Ala Gln Phe Asp Lys Gln Asn Pro Thr Ala Gln
1 5 10

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<400> 7567

Ala Gln Phe Gly Gly Arg Tyr Glu Lys Ala Gln
1 5 10

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<400> 7568

Ala Gln Thr Val Gln Asn His Thr Asn Ala Gln
1 5 10

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<400> 7569

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

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<400> 7570

Ala Gln Gln Gly Glu Thr Asn His Arg Ala Gln
1   5   10

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<400> 7571

Ala Gln Ala His Ser Asn Met Val Asn Ala Gln
1   5   10

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<400> 7572

Ala Gln Val Ser Ala Ser Ser Asn Lys Ala Gln
1   5   10

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<400> 7573

Ala Gln Thr Asn Gln Ser Lys Asn Phe Ala Gln
1 5 10

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<400> 7574

Ala Gln Lys Met Lys Asp Met Ser Ile Ala Gln
1 5 10

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<400> 7575

Ala Gln His Pro Ser Gly Ser Thr Leu Ala Gln
1 5 10

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<400> 7576

Ala Gln Ile Lys Asp Thr Val Ser Gly Ala Gln
1 5 10

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<400> 7577

Ala Gln Met Asn Thr Leu Thr Asn Val Ala Gln
1   5   10

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<400> 7578

Ala Gln Thr Asp Ser Ala Pro His Pro Ala Gln
1   5   10

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<400> 7579

Ala Gln Pro Arg Pro Val Ser Asn Gly Ala Gln
1   5   10

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<400> 7580

Ala Gln Ser Val Asp Arg Arg Pro Gln Ala Gln
1 5 10

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<400> 7581

Ala Gln Met Asp Ser Pro Ile Arg Asn Ala Gln
1 5 10

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<400> 7582

Ala Gln Ala Thr Arg Met Ser Ile Pro Ala Gln
1 5 10

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<400> 7583

Ala Gln Asn Val Pro Thr Ser Leu Pro Ala Gln
1 5 10

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<400> 7584

Ala Gln Ser Leu Arg Ile Glu Ser Lys Ala Gln
1   5   10

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<400> 7585

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

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<400> 7586

Ala Gln Arg Leu Asp His Ala Ser Ile Ala Gln
1   5   10

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<400> 7587

Ala Gln Ser His Leu Val Val Ser Ala Ala Gln
1   5   10

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<400> 7588

Ala Gln Pro Ala Ser Pro Arg Ser His Ala Gln
1 5 10

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<400> 7589

Ala Gln Asn His Thr Leu Val Pro Pro Ala Gln
1 5 10

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<400> 7590

Ala Gln Met Gln Met Thr Gly Thr Ala Ala Gln
1 5 10

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<400> 7591

Ala Gln Asn Thr Gln Ala Asn Pro Arg Ala Gln
1 5 10

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<400> 7592

Ala Gln Thr Arg Asp Leu Asn Ala Ile Ala Gln
1   5   10

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<400> 7593

Ala Gln Thr Asp Ala Ser Ser Pro Phe Ala Gln
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<400> 7594

Ala Gln Ala Asp Gln Arg Gln Pro Lys Ala Gln
1   5   10

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<400> 7595

Ala Gln Ala Val Asn Pro Asn Tyr Ala Ala Gln

1 5 10

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<400> 7596

Ala Gln Leu Thr Ala Thr Asn Val Arg Ala Gln
1 5 10

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<400> 7597

Ala Gln Leu Thr Ala Ser Thr Tyr Ser Ala Gln
1 5 10

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<400> 7598

Ala Gln Gly Ser Arg Asp Asn Ser Val Ala Gln
1 5 10

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<400> 7599

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

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<400> 7600

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

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<400> 7601

Ala Gln Leu Ser His Ala Met Arg Ser Ala Gln
1 5 10

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<400> 7602

Ala Gln Arg Leu Pro Met Thr Thr Met Ala Gln
1 5 10

<210> 7603
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<400> 7603

Ala Gln Leu Tyr His Glu Ser Gln Thr Ala Gln
1   5   10

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<400> 7604

Ala Gln Ile Leu His Gln Ser Ser Thr Ala Gln
1   5   10

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<400> 7605

Ala Gln Thr Ser Leu Ala Thr Gln Thr Ala Gln
1   5   10

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<400> 7606

Ala Gln Arg Thr Pro Thr Leu Thr Val Ala Gln
1   5   10

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<400> 7607

Ala Gln Ala Thr Arg Glu Ser Arg Thr Ala Gln
1   5   10

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<400> 7608

Ala Gln Leu Ser Glu Ser Leu Arg Ile Ala Gln
1   5   10

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<400> 7609

Ala Gln Ser Val Thr Gly Gly Met Val Ala Gln
1   5   10

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<400> 7610

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

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<400> 7611

Ala Gln Val His Ser Thr Val Thr Ser Ala Gln
1 5 10

<210> 7612
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<400> 7612

Ala Gln Gly Thr Asn Met Asn His Leu Ala Gln
1 5 10

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<400> 7613

Ala Gln Met Lys Ala Glu Leu Tyr Ala Ala Gln
1 5 10

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<400> 7614

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

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<400> 7615

Ala Gln Thr Asn Ser Pro Gln Phe Pro Ala Gln
1   5   10

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<400> 7616

Ala Gln Asn Asn Ser Leu Arg Ser Asn Ala Gln
1   5   10

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<400> 7617

Ala Gln Asp Ser His Met Gly Lys Tyr Ala Gln
1   5   10

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<400> 7618

Ala Gln Val Asn Ser Met Thr Pro Arg Ala Gln
1 5 10

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<400> 7619

Ala Gln Leu Ala Pro Ile Ser Leu Asn Ala Gln
1 5 10

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<400> 7620

Ala Gln Asn Met Pro Ser Ile Met Gln Ala Gln
1 5 10

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<400> 7621

Ala Gln Gly Asn Met Ile Lys Val Ala Ala Gln
1 5 10

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<400> 7622

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

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<400> 7623

Ala Gln Pro Gln Phe Asn Thr Ala Ser Ala Gln
1   5   10

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<400> 7624

Ala Gln Thr Glu Ala Tyr Arg Asn Thr Ala Gln
1   5   10

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<400> 7625

Ala Gln Leu Met Lys Ala Asp Thr Val Ala Gln
1   5   10

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<400> 7626

Ala Gln Asn His Lys Glu Phe Met Leu Ala Gln
1 5 10

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<400> 7627

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

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<400> 7628

Ala Gln Thr Ala Lys Ile Leu Thr Met Ala Gln
1 5 10

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<400> 7629

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

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<400> 7630

Ala Gln Leu Lys Gly Gly Asp Ser Trp Ala Gln
1   5   10

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<400> 7631

Ala Gln Lys Thr Val Asp Ile Met Gly Ala Gln
1   5   10

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<400> 7632

Ala Gln Leu Asn Met Gly Gln Met Lys Ala Gln
1   5   10

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<400> 7633

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

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<400> 7634

Ala Gln Gln Leu Leu Gly Thr Ser Lys Ala Gln
1 5 10

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<400> 7635

Ala Gln Met Asn Pro Lys His Gly Leu Ala Gln
1 5 10

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<400> 7636

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

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<400> 7637

Ala Gln Ala Asn Met Pro Asn Ser Arg Ala Gln
1   5   10

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<400> 7638

Ala Gln Ala Tyr Ile Ser Ser Gly Val Ala Gln
1   5   10

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<400> 7639

Ala Gln Glu Arg Gly Ser Gln Ala Asn Ala Gln
1   5   10

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<400> 7640

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

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<400> 7641

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

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<400> 7642

Ala Gln Leu Thr His Asn Val Gly Val Ala Gln
1 5 10

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<400> 7643

Ala Gln Arg Glu Asp Gly Val Ala Lys Ala Gln
1 5 10

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<400> 7644

Ala Gln Pro Ala Asp Gly Tyr Lys Leu Ala Gln
1 5 10

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<400> 7645

Ala Gln Gln Leu Asp Ala Thr Arg Ala Ala Gln
1   5   10

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<400> 7646

Ala Gln Val Thr Gly Met Thr Thr Arg Ala Gln
1   5   10

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<400> 7647

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

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<400> 7648

Ala Gln Val Glu Pro Leu Lys Pro Asp Ala Gln

1 5 10

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<400> 7649

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

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<400> 7650

Ala Gln Met Gly Glu Arg Met Ser Ile Ala Gln
1 5 10

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<400> 7651

Ala Gln Phe Thr Lys Thr Glu Asp Leu Ala Gln
1 5 10

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<400> 7652

Ala Gln Val Lys Asn Thr Glu Leu Leu Ala Gln
1 5 10

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<400> 7653

Ala Gln Thr Val Thr Ser Thr Val Val Ala Gln
1 5 10

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<400> 7654

Ala Gln Ala Lys Tyr Gly Asp Pro Thr Ala Gln
1 5 10

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<400> 7655

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

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<400> 7656

Ala Gln Ala Val Gly Asn Thr Lys Met Ala Gln
1   5   10

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<400> 7657

Ala Gln Gln Thr Tyr Asn Lys Met Asp Ala Gln
1   5   10

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<400> 7658

Ala Gln Ala Trp Ala Ser Gln Ser Ser Ala Gln
1   5   10

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<400> 7659

Ala Gln Asn Ala Phe Leu Thr Gly Gly Ala Gln
1   5   10

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<400> 7660

Ala Gln Ser Ile Gly Asp Lys Tyr Thr Ala Gln
1   5   10

<210> 7661
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<400> 7661

Ala Gln Ser Asn His His His Thr Gly Ala Gln
1   5   10

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<400> 7662

Ala Gln Ile Thr Asn Lys Pro Met Thr Ala Gln
1   5   10

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<400> 7663

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

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<400> 7664

Ala Gln Asn Ser Met Ser Gly His Leu Ala Gln
1   5   10

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<400> 7665

Ala Gln Pro Ala Val His Gly Tyr Ala Ala Gln
1   5   10

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<400> 7666

Ala Gln Leu Met Arg Thr Lys Gln Pro Ala Gln
1   5   10

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<400> 7667

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

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<400> 7668

Ala Gln Asn Thr Gln Ser Glu Pro Arg Ala Gln
1   5   10

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<400> 7669

Ala Gln Asp His Leu Val Ser Val Pro Ala Gln
1   5   10

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<400> 7670

Ala Gln Trp Ala Thr Ser Thr His Asp Ala Gln
1   5   10

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<400> 7671

Ala Gln Pro Gln Gln Gln Pro Ile Gly Ala Gln
1 5 10

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Ala Gln Ser Leu Ser Thr His Ser Asp Ala Gln
1 5 10

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<400> 7673

Ala Gln Gly Ser Met Ala Ala Arg Ser Ala Gln
1 5 10

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<400> 7674

Ala Gln Ala Pro Gly Met Thr Ala Arg Ala Gln
1 5 10

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<400> 7675

Ala Gln Val Leu Ala Asn Met Thr Ala Ala Gln
1   5   10

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

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Ala Gln Gly Ala Asn Ser Gly Gly Val Ala Gln
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<400> 7678

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

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Ala Gln Val His Gly Glu Arg Ser Val Ala Gln
1 5 10

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<400> 7680

Ala Gln Ala His Gln Thr Ala Ala Ser Ala Gln
1 5 10

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Ala Gln Val Arg Glu Met Gln Thr Ala Ala Gln
1 5 10

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<400> 7682

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

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<400> 7683

Ala Gln Ser Val Gly His His Asn Met Ala Gln
1   5   10

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<400> 7684

Ala Gln Phe Leu Thr Gln Gly Asp Val Ala Gln
1   5   10

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<400> 7685

Ala Gln Phe Ser Thr Gln Phe Gln His Ala Gln
1   5   10

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<400> 7686

Ala Gln Gln Asn Thr Thr Arg Ser Asn Ala Gln
1 5 10

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<400> 7687

Ala Gln Pro Ala Val Thr Ser Ile Ala Ala Gln
1 5 10

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<400> 7688

Ala Gln Ala Ser Thr Asn Thr Tyr Val Ala Gln
1 5 10

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<400> 7689

Ala Gln Ser Thr Ala Thr Pro Thr Ser Ala Gln
1 5 10

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<400> 7690

Ala Gln His Phe Asn Arg Thr Ser Pro Ala Gln
1   5   10

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<400> 7691

Ala Gln Ser Val Ala Gly Met Leu Pro Ala Gln
1   5   10

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<400> 7692

Ala Gln Pro Met Ser Ser Glu Ser Ser Ala Gln
1   5   10

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<400> 7693

Ala Gln Ser Leu Ala Ser Thr Thr Val Ala Gln
1   5   10

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<400> 7694

Ala Gln Thr Ser Thr Pro Ala Gln Val Ala Gln
1 5 10

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<400> 7695

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

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<400> 7696

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

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<400> 7697

Ala Gln Leu Asp Ala Ala Lys Ser Leu Ala Gln
1 5 10

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<400> 7698

Ala Gln Asn Phe Ala Asn Lys Asn Val Ala Gln
1   5   10

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<400> 7699

Ala Gln Gly Pro Ala Ser Val Thr Pro Ala Gln
1   5   10

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<400> 7700

Ala Gln Tyr Ser Arg Glu Ala Thr Asn Ala Gln
1   5   10

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<400> 7701

Ala Gln Thr Gly Ser Ser Phe Ala Met Ala Gln

1 5 10

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<400> 7702

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

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<400> 7703

Ala Gln Val Thr Ser Thr Ser His Ala Ala Gln
1 5 10

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<400> 7704

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

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<400> 7705

Ala Gln Met Arg Gln Glu Gly Leu Ser Ala Gln
1 5 10

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<400> 7706

Ala Gln Leu Asn Leu Asn Ala Ile Ala Ala Gln
1 5 10

<210> 7707
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<400> 7707

Ala Gln Ser Lys Asn Glu Gly Pro Thr Ala Gln
1 5 10

<210> 7708
<211> 11
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<400> 7708

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

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<211> 11
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<400> 7709

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

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<400> 7710

Ala Gln Ile Asn Lys Pro Gly Thr Pro Ala Gln
1   5   10

<210> 7711
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<400> 7711

Ala Gln Val Ser Ala Pro Leu Asn Ile Ala Gln
1   5   10

<210> 7712
<211> 11
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<400> 7712

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

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<400> 7713

Ala Gln Leu Asn His Ile Asn Glu Lys Ala Gln
1   5   10

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<400> 7714

Ala Gln Lys Ser Val Thr Ile Leu Ser Ala Gln
1   5   10

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<400> 7715

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

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<400> 7716

Ala Gln Phe Ser Gln Thr Val Gly Gly Ala Gln
1   5   10

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<400> 7717

Ala Gln Arg Pro Ser Ile Thr His Asp Ala Gln
1   5   10

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<400> 7718

Ala Gln Arg Gln Glu Ser Thr Thr Leu Ala Gln
1   5   10

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<400> 7719

Ala Gln Gly Pro Tyr Val Thr Pro Gln Ala Gln
1   5   10

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<400> 7720

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

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<400> 7721

Ala Gln His Ala Gly Asn Val Pro Gly Ala Gln
1 5 10

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<400> 7722

Ala Gln Pro Met Gly Asn Asn Leu Val Ala Gln
1 5 10

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<400> 7723

Ala Gln Val Tyr Asn Asp Arg Ser His Ala Gln
1 5 10

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<400> 7724

Ala Gln Thr His Lys Glu Ser Gly Tyr Ala Gln
1 5 10

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<400> 7725

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

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<400> 7726

Ala Gln Tyr Leu Glu Asn Gln Tyr Ser Ala Gln
1 5 10

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<400> 7727

Ala Gln Ser Ile Thr Ser Arg Pro Asn Ala Gln
1 5 10

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<400> 7728

Ala Gln Ser His Gln Asn Thr Ala Arg Ala Gln
1   5   10

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<400> 7729

Ala Gln Arg Leu Val Gln Ser Ala Glu Ala Gln
1   5   10

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<400> 7730

Ala Gln Tyr Pro Lys Ser Ala Thr Asn Ala Gln
1   5   10

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<400> 7731

Ala Gln Ile Asn Ser Ser Pro Pro Leu Ala Gln
1   5   10

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<400> 7732

Ala Gln Thr Gln Asn Leu Ala Gly Gly Ala Gln
1 5 10

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<400> 7733

Ala Gln Phe Gln Val Ala Lys Asp Arg Ala Gln
1 5 10

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<400> 7734

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

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<400> 7735

Ala Gln Thr Thr Asp Arg Val Ser His Ala Gln
1 5 10

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<400> 7736

Ala Gln Thr Ala Thr Val Thr Ala Arg Ala Gln
1 5 10

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<400> 7737

Ala Gln Leu Ser Met Met Ser Asp Lys Ala Gln
1 5 10

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<400> 7738

Ala Gln Thr Leu Ile Gln Thr Ser Pro Ala Gln
1 5 10

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<400> 7739

Ala Gln Pro Met His Ile Thr Asn Ala Ala Gln
1 5 10

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<400> 7740

Ala Gln Thr Val Gly Gln Pro Ala His Ala Gln
1 5 10

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<400> 7741

Ala Gln Glu Asp Lys Asp Val Arg Leu Ala Gln
1 5 10

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<400> 7742

Ala Gln Met Lys Val Ala Gln Pro Met Ala Gln
1 5 10

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<400> 7743

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

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<400> 7744

Ala Gln Ala Pro Leu Ser Ser Asp Pro Ala Gln
1   5   10

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<400> 7745

Ala Gln Phe Leu His Ala Ser Val Asp Ala Gln
1   5   10

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<400> 7746

Ala Gln Pro Thr Val Gly Thr Tyr Ile Ala Gln
1   5   10

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<400> 7747

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

<210> 7748
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<400> 7748

Ala Gln Ala Ser Thr Val Thr Val Glu Ala Gln
1 5 10

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<400> 7749

Ala Gln Ala Pro Arg Ile Asp Asn Ala Ala Gln
1 5 10

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<400> 7750

Ala Gln Tyr Arg Asp Ser Ala Ala Pro Ala Gln
1 5 10

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<400> 7751

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

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<400> 7752

Ala Gln Leu Ser Ala Arg Leu Thr Thr Ala Gln
1   5   10

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<400> 7753

Ala Gln Asn Gly Lys Ser Ser Asp Lys Ala Gln
1   5   10

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<400> 7754

Ala Gln Ala Leu Val Lys Asp Thr Thr Ala Gln

1 5 10

<210> 7755
<211> 11
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<400> 7755

Ala Gln Met Leu Val Thr Thr Gly Glu Ala Gln
1 5 10

<210> 7756
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<400> 7756

Ala Gln Ser Gly Asn Pro Ser Tyr Ala Ala Gln
1 5 10

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<400> 7757

Ala Gln Val Ile Thr Gly Gly Met Ser Ala Gln
1 5 10

<210> 7758
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<220>
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<400> 7758

Ala Gln Leu Glu Pro Asn Val Gln Thr Ala Gln
1 5 10

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<400> 7759

Ala Gln Arg Phe Ser Glu Val Thr Pro Ala Gln
1 5 10

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<400> 7760

Ala Gln Asp Pro Gly Lys Ala Ser Leu Ala Gln
1 5 10

<210> 7761
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<400> 7761

Ala Gln Ile Ala His Glu Ser Thr Asp Ala Gln
1 5 10

<210> 7762
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<400> 7762

Ala Gln Tyr Pro Ser Asn Ser Met His Ala Gln
1   5   10

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<400> 7763

Ala Gln Ser Thr Thr Pro Pro Ser Gly Ala Gln
1   5   10

<210> 7764
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<400> 7764

Ala Gln Val Glu Gln Asn Ser Lys Asn Ala Gln
1   5   10

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<400> 7765

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

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<400> 7766

Ala Gln Ala Arg His Thr Gly Glu Met Ala Gln
1 5 10

<210> 7767
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<400> 7767

Ala Gln Gln His Leu Pro Asn His Ile Ala Gln
1 5 10

<210> 7768
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<400> 7768

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

<210> 7769
<211> 11
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<400> 7769

Ala Gln Thr Glu Ser Val Met Pro Arg Ala Gln
1 5 10

<210> 7770
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<400> 7770

Ala Gln Gly Ala Lys Pro Ser Asn Asp Ala Gln
1   5   10

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<211> 11
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<400> 7771

Ala Gln Ala Val Ser Ser Asp Met Ser Ala Gln
1   5   10

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<400> 7772

Ala Gln His Ser Pro Gln Leu Gly Gly Ala Gln
1   5   10

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<400> 7773

Ala Gln Leu Tyr Thr Asn Pro Asn Thr Ala Gln
1 5 10

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<400> 7774

Ala Gln Thr Val Ala Leu Asn Met Ala Ala Gln
1 5 10

<210> 7775
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<400> 7775

Ala Gln Gln Arg Val Pro Ala Tyr Gln Ala Gln
1 5 10

<210> 7776
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<400> 7776

Ala Gln Ser Asp Val Ser Lys Val Tyr Ala Gln
1 5 10

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<400> 7777

Ala Gln Ser Asn Thr Gly Glu Gln Val Ala Gln
1 5 10

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<400> 7778

Ala Gln Phe Thr Thr Gly Leu Asn His Ala Gln
1 5 10

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<400> 7779

Ala Gln Asn Asp Thr Gln Tyr Lys His Ala Gln
1 5 10

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<400> 7780

Ala Gln Val His Asp Val Lys Gly Ile Ala Gln
1 5 10

<210> 7781
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<400> 7781

Ala Gln Tyr Gly Gly Arg Asp Ser Tyr Ala Gln
1   5   10

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<400> 7782

Ala Gln His Ser Thr Ala Thr Thr His Ala Gln
1   5   10

<210> 7783
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<400> 7783

Ala Gln Pro Ser Pro Thr Thr Arg Thr Ala Gln
1   5   10

<210> 7784
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<400> 7784

Ala Gln Gly His Ala Glu Ala Ala Met Ala Gln
1   5   10

<210> 7785

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<400> 7785

Ala Gln Ser Leu Ser Thr Arg Pro Val Ala Gln
1 5 10

<210> 7786
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<400> 7786

Ala Gln Ser Pro Val Pro Gly Lys Pro Ala Gln
1 5 10

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<400> 7787

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

<210> 7788
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<400> 7788

Ala Gln Glu Ser Thr Tyr Ala Lys Leu Ala Gln
1 5 10

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<400> 7789

Ala Gln Gln Ile Asn Gln Gly Thr Arg Ala Gln
1   5   10

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<400> 7790

Ala Gln Gly Ser Arg Thr Gly Ser Ile Ala Gln
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<400> 7791

Ala Gln Gly Asn Ala Ser Trp Ser Ala Ala Gln
1   5   10

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<400> 7792

Ala Gln Ala Ala His Asp Ile Gly Lys Ala Gln
1 5 10

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<400> 7793

Ala Gln Lys Asp Arg Pro Phe Val Glu Ala Gln
1 5 10

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<400> 7794

Ala Gln Leu Pro His Thr Lys Pro Phe Ala Gln
1 5 10

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<400> 7795

Ala Gln Pro Gly Lys Gly Val Ser Leu Ala Gln
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<400> 7796

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

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<400> 7797

Ala Gln Val Gln Pro Ser Leu Ser Val Ala Gln
1   5   10

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<400> 7798

Ala Gln Lys Pro Thr Pro Ile Glu Phe Ala Gln
1   5   10

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<400> 7799

Ala Gln Leu Leu His Asp Met Lys Ser Ala Gln
1   5   10

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<400> 7800

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

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<400> 7801

Ala Gln Lys Val Gly His Gly Phe Asn Ala Gln
1 5 10

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<400> 7802

Ala Gln Thr Lys Pro Ala Val Ser Phe Ala Gln
1 5 10

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<211> 11
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<400> 7803

Ala Gln Ala Met Thr Asn Ile Pro Lys Ala Gln
1 5 10

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<400> 7804

Ala Gln Phe Ser His Met Ser Leu Pro Ala Gln
1   5   10

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<400> 7805

Ala Gln Gly Ser Val Arg Asp Asn Pro Ala Gln
1   5   10

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<400> 7806

Ala Gln Ser Ser Ser Gln Gly Pro Thr Ala Gln
1   5   10

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<400> 7807

Ala Gln Leu Val Gly Arg Pro Val Thr Ala Gln

1 5 10

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<400> 7808

Ala Gln Ile Asn Tyr Gly Val Gln Lys Ala Gln
1 5 10

<210> 7809
<211> 11
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<400> 7809

Ala Gln Ile Asn Lys Asp Asn Asn Gln Ala Gln
1 5 10

<210> 7810
<211> 11
<212> PRT
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<400> 7810

Ala Gln Ser Gly Gln Ser Ser Ala Met Ala Gln
1 5 10

<210> 7811
<211> 11
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<400> 7811

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

<210> 7812
<211> 11
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<400> 7812

Ala Gln Phe Met Thr Leu Glu Arg Ala Ala Gln
1 5 10

<210> 7813
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<400> 7813

Ala Gln Phe Gly Lys Asp Tyr Val Asn Ala Gln
1 5 10

<210> 7814
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<400> 7814

Ala Gln Leu Leu Leu Gly Gly Thr Pro Ala Gln
1 5 10

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<400> 7815

Ala Gln Thr Thr Thr Tyr Thr Arg Asn Ala Gln
1   5   10

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<400> 7816

Ala Gln Asp Arg Gly Met Arg Gly Ala Ala Gln
1   5   10

<210> 7817
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<400> 7817

Ala Gln Ala Val Ser Gly Thr Arg Thr Ala Gln
1   5   10

<210> 7818
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<400> 7818

Ala Gln Asn Phe Ser Gly Val Ala Lys Ala Gln
1   5   10

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<400> 7819

Ala Gln Asp Arg Asn Asn Ser Ile Ser Ala Gln
1 5 10

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<400> 7820

Ala Gln Ile Pro Gln Arg Pro Leu Asp Ala Gln
1 5 10

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<400> 7821

Ala Gln Pro Ala Ala Asn Gln Tyr Val Ala Gln
1 5 10

<210> 7822
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<400> 7822

Ala Gln Tyr Ser Gly Thr Ala Ile Arg Ala Gln
1 5 10

<210> 7823
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<400> 7823

Ala Gln Trp Val Gln Arg Thr Glu Ser Ala Gln
1   5   10

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<400> 7824

Ala Gln Pro Lys Asp Gly Gly Ala Ile Ala Gln
1   5   10

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<400> 7825

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

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<213> Artificial Sequence

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<400> 7826

Ala Gln Leu Asn Ser Pro Val Met Ala Ala Gln
1   5   10

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<400> 7827

Ala Gln Gly Ala Thr Gly Thr Arg Ala Ala Gln
1   5   10

<210> 7828
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<400> 7828

Ala Gln Arg Thr Asp Val Arg Thr Asn Ala Gln
1   5   10

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<400> 7829

Ala Gln Arg Asn Leu Ala His Pro Tyr Ala Gln
1   5   10

<210> 7830
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<400> 7830

Ala Gln Leu Ser Thr Ser Tyr Ser Thr Ala Gln
1 5 10

<210> 7831
<211> 11
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<400> 7831

Ala Gln Gly Val Asn Gln Thr Ala Arg Ala Gln
1 5 10

<210> 7832
<211> 11
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<400> 7832

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

<210> 7833
<211> 11
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<400> 7833

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

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<400> 7834

Ala Gln Val Gly Thr Tyr Thr Ala Thr Ala Gln
1   5   10

<210> 7835
<211> 11
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<400> 7835

Ala Gln Arg Ser Met Thr Val Ile Glu Ala Gln
1   5   10

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<400> 7836

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

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<400> 7837

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

<210> 7838

<211> 11
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<400> 7838

Ala Gln Met Pro Gln Ser Ser Leu Ala Ala Gln
1 5 10

<210> 7839
<211> 11
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<400> 7839

Ala Gln Pro Ser Lys His Glu Arg Tyr Ala Gln
1 5 10

<210> 7840
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<400> 7840

Ala Gln Leu Phe Asp Ser Ser Lys Thr Ala Gln
1 5 10

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<400> 7841

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

<210> 7842
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<400> 7842

Ala Gln Arg Arg Pro Asp Val Glu Asn Ala Gln
1   5   10

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<400> 7843

Ala Gln Pro Met Gly Ser Ala Gly Ser Ala Gln
1   5   10

<210> 7844
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<400> 7844

Ala Gln Trp Ser Thr Gly Met Thr Ser Ala Gln
1   5   10

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<400> 7845

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

<210> 7846
<211> 11
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<400> 7846

Ala Gln Glu Gly Ser Tyr Ser Thr Ser Ala Gln
1 5 10

<210> 7847
<211> 11
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<220>
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<400> 7847

Ala Gln Ala Thr Ser Met Leu Thr His Ala Gln
1 5 10

<210> 7848
<211> 11
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<400> 7848

Ala Gln Ser Thr Thr Gly Pro Pro Ser Ala Gln
1 5 10

<210> 7849
<211> 11
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<400> 7849

Ala Gln Arg Gly Ala Ser Val Ser Met Ala Gln
1   5   10

<210> 7850
<211> 11
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<400> 7850

Ala Gln Val His Glu His Gly Ala Ser Ala Gln
1   5   10

<210> 7851
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<400> 7851

Ala Gln His Ser Pro Ser Gln Pro Arg Ala Gln
1   5   10

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<400> 7852

Ala Gln Gly Ile Gly Gln Asn Thr Ala Ala Gln
1   5   10

<210> 7853
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<400> 7853

Ala Gln His Arg Val Glu Asn Ser Tyr Ala Gln
1 5 10

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<400> 7854

Ala Gln Thr Glu Phe Lys Pro Pro Ser Ala Gln
1 5 10

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<400> 7855

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

<210> 7856
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<400> 7856

Ala Gln Leu Thr Arg Val Leu Thr Gly Ala Gln
1 5 10

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<211> 11
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<400> 7857

Ala Gln Met Lys Asn Ser Asn Gly Ala Ala Gln
1   5   10

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<400> 7858

Ala Gln Gly Thr Gln Thr His Leu Gln Ala Gln
1   5   10

<210> 7859
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<400> 7859

Ala Gln Asn Ala Leu Ala Arg Thr Met Ala Gln
1   5   10

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<400> 7860

Ala Gln Asn Asn Ser Met Gln Thr Val Ala Gln

1 5 10

<210> 7861
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<400> 7861

Ala Gln Gln Gln Gly Asn Gly Arg Ser Ala Gln
1 5 10

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<400> 7862

Ala Gln Leu Thr Lys Ser Gln Gly Tyr Ala Gln
1 5 10

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<400> 7863

Ala Gln Ala Pro Ala Glu Pro Lys Thr Ala Gln
1 5 10

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<400> 7864

Ala Gln Tyr Ser Asn Gln Val Ser Asn Ala Gln
1 5 10

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<400> 7865

Ala Gln Thr Arg Thr Gly Phe Ser Pro Ala Gln
1 5 10

<210> 7866
<211> 11
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<400> 7866

Ala Gln Pro Val Tyr Lys Thr Asp Asp Ala Gln
1 5 10

<210> 7867
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<400> 7867

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

<210> 7868
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<400> 7868

Ala Gln Val Gln Glu Lys Ser Arg Pro Ala Gln
1   5   10

<210> 7869
<211> 11
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<400> 7869

Ala Gln Ser Gly Gly Leu Thr Glu Arg Ala Gln
1   5   10

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<400> 7870

Ala Gln Ser Gly Gly Thr Arg Glu Gly Ala Gln
1   5   10

<210> 7871
<211> 11
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<400> 7871

Ala Gln Ala Val Pro Gly Glu Thr Arg Ala Gln
1   5   10

<210> 7872
<211> 11

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<400> 7872

Ala Gln Pro Arg Pro Glu Arg Met Tyr Ala Gln
1   5   10

<210> 7873
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<400> 7873

Ala Gln Ser Asn Gly Asn Ile Ser Arg Ala Gln
1   5   10

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<400> 7874

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

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<400> 7875

Ala Gln Ser Pro Gln Gln Phe Ser Lys Ala Gln
1   5   10

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<400> 7876

Ala Gln Ser Thr Gly Pro Phe Pro Gln Ala Gln
1 5 10

<210> 7877
<211> 11
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<400> 7877

Ala Gln Ala Asn Ile Gly Thr Ser Thr Ala Gln
1 5 10

<210> 7878
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<400> 7878

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

<210> 7879
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<400> 7879

Ala Gln Val Gln Thr Arg Ser Pro Met Ala Gln
1 5 10

<210> 7880
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<220>
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<400> 7880

Ala Gln Ile His Thr Ser Ile Val Asp Ala Gln
1 5 10

<210> 7881
<211> 11
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<400> 7881

Ala Gln Met Thr Arg Thr Ser Ser Glu Ala Gln
1 5 10

<210> 7882
<211> 11
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<220>
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<400> 7882

Ala Gln Pro Ser Asn Phe Pro Gly Ser Ala Gln
1 5 10

<210> 7883
<211> 11
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<220>
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<400> 7883

Ala Gln Met Ile Gly Gly Thr Gln Ser Ala Gln
1 5 10

<210> 7884
<211> 11
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<400> 7884

Ala Gln Lys Leu Asp Lys His Glu Ser Ala Gln
1 5 10

<210> 7885
<211> 11
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<400> 7885

Ala Gln Leu Thr Ser Ser Asn Ser Ala Ala Gln
1 5 10

<210> 7886
<211> 11
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<400> 7886

Ala Gln Ser Thr Arg Asp Thr His Phe Ala Gln
1 5 10

<210> 7887
<211> 11
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<400> 7887

Ala Gln Asp Thr Leu Lys Ala Val Arg Ala Gln
1   5   10

<210> 7888
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<213> Artificial Sequence

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<400> 7888

Ala Gln Gln Arg Asn Pro Ser Leu His Ala Gln
1   5   10

<210> 7889
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<400> 7889

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

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<400> 7890

Ala Gln Gly Val Tyr Lys Thr Leu His Ala Gln
1   5   10

<210> 7891

<211> 11
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<400> 7891

Ala Gln Ile Asn Ser Asn Gln Val Ser Ala Gln
1 5 10

<210> 7892
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<400> 7892

Ala Gln His Tyr Asn Glu His Met Thr Ala Gln
1 5 10

<210> 7893
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<400> 7893

Ala Gln Thr Val Gln Val Arg Asp Arg Ala Gln
1 5 10

<210> 7894
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<400> 7894

Ala Gln Gly Asn Asp Ile Arg Ser Arg Ala Gln
1 5 10

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<400> 7895

Ala Gln Val Ser Val Ser Met Gly Pro Ala Gln
1   5   10

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<400> 7896

Ala Gln Phe Lys Thr Asn Ile Ser Ala Ala Gln
1   5   10

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<400> 7897

Ala Gln Phe Pro Lys Val Glu Arg Tyr Ala Gln
1   5   10

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<400> 7898

Ala Gln Leu Ser Lys Phe Gln Thr Thr Ala Gln
1 5 10

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<400> 7899

Ala Gln Ser Leu Met Asn Ser Arg Ser Ala Gln
1 5 10

<210> 7900
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<400> 7900

Ala Gln Gly Arg Gly Val Leu Glu Ser Ala Gln
1 5 10

<210> 7901
<211> 11
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<220>
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<400> 7901

Ala Gln Pro Asn Gly Ser Gln Met Ile Ala Gln
1 5 10

<210> 7902
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<400> 7902

Ala Gln Pro Thr Val Gly Asn Ser Tyr Ala Gln
1   5   10

<210> 7903
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<400> 7903

Ala Gln Ser Ser Asp Ile Met Lys Ala Ala Gln
1   5   10

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<400> 7904

Ala Gln Leu Met Thr Ser Ala Gly Arg Ala Gln
1   5   10

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<400> 7905

Ala Gln Pro Ala Met Ser Ser Ser Arg Ala Gln
1   5   10

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<400> 7906

Ala Gln Arg Asp Lys Ala Ile Ser Thr Ala Gln
1 5 10

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<400> 7907

Ala Gln Leu Thr Leu Lys Gln Gly Ile Ala Gln
1 5 10

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<400> 7908

Ala Gln Ser His Ala Asn Gly Phe Ser Ala Gln
1 5 10

<210> 7909
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<400> 7909

Ala Gln Pro Asn Leu Lys Ala Pro Gln Ala Gln
1 5 10

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<400> 7910

Ala Gln Ser Tyr Gly Arg Glu Val Arg Ala Gln
1   5   10

<210> 7911
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<400> 7911

Ala Gln Asn Asp Thr Gln Ser Pro Lys Ala Gln
1   5   10

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<400> 7912

Ala Gln Asp Glu Arg Ala Pro Lys His Ala Gln
1   5   10

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<400> 7913

Ala Gln Asn Gly Arg Pro Met Gly Met Ala Gln

1 5 10

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<400> 7914

Ala Gln His Thr Gln Ser Val Thr Met Ala Gln
1 5 10

<210> 7915
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<400> 7915

Ala Gln Asn Asn Phe Asn Ala Ser Leu Ala Gln
1 5 10

<210> 7916
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<400> 7916

Ala Gln Glu Tyr Leu Lys Gly Ser Ala Ala Gln
1 5 10

<210> 7917
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<400> 7917

Ala Gln Ser Lys Thr Pro Asp Met Leu Ala Gln
1 5 10

<210> 7918
<211> 11
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<400> 7918

Ala Gln Val Asn Thr Gly His Val Arg Ala Gln
1 5 10

<210> 7919
<211> 11
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<400> 7919

Ala Gln Gly Ser Gln Ser Asp Ala Arg Ala Gln
1 5 10

<210> 7920
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<400> 7920

Ala Gln Ser Leu Thr Phe Ser Lys Asp Ala Gln
1 5 10

<210> 7921
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<400> 7921

Ala Gln Asn Ala Leu Glu Ser Arg Met Ala Gln
1   5   10

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<400> 7922

Ala Gln Asn Gly Ile Ala Arg Glu Pro Ala Gln
1   5   10

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<400> 7923

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

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<400> 7924

Ala Gln Asp Met Leu Ser Tyr Lys Pro Ala Gln
1   5   10

<210> 7925
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<400> 7925

Ala Gln Arg Ser Thr Asp Ser Met Thr Ala Gln
1   5   10

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<400> 7926

Ala Gln Glu Met Asn His Ser Leu Ser Ala Gln
1   5   10

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<400> 7927

Ala Gln Ala Leu Ser Lys Glu Ala Ser Ala Gln
1   5   10

<210> 7928
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<400> 7928

Ala Gln Asn Gly His Asn Met Ser Gln Ala Gln
1   5   10

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<400> 7929

Ala Gln Thr Thr Ala Glu Ala Thr Arg Ala Gln
1   5   10

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<400> 7930

Ala Gln Arg Glu Ser Ala His His Asn Ala Gln
1   5   10

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<400> 7931

Ala Gln Met Phe Thr Gly Asn Gly Gln Ala Gln
1   5   10

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<400> 7932

Ala Gln His Leu Gln Thr Pro Pro Ala Ala Gln
1 5 10

<210> 7933
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<400> 7933

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

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<400> 7934

Ala Gln Leu Pro Leu Thr Pro Ile Ala Ala Gln
1 5 10

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<400> 7935

Ala Gln Ala Met Lys Gln Ser Ser Ile Ala Gln
1 5 10

<210> 7936
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<400> 7936

Ala Gln Tyr Pro Thr Asn Val Lys Ser Ala Gln
1 5 10

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<400> 7937

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

<210> 7938
<211> 11
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<400> 7938

Ala Gln Pro Thr Ala Ala Thr Gly Thr Ala Gln
1 5 10

<210> 7939
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<400> 7939

Ala Gln Ile Ala Gln Asn Gly Pro Gly Ala Gln
1 5 10

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<400> 7940

Ala Gln Thr Thr His Gln Leu Thr Pro Ala Gln
1   5   10

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<400> 7941

Ala Gln Leu Ile Pro Ala Arg Asp Val Ala Gln
1   5   10

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<400> 7942

Ala Gln Lys Ile Ala His Gly Asp Ile Ala Gln
1   5   10

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<400> 7943

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

<210> 7944

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<400> 7944

Ala Gln Pro Arg Pro Asn Val Leu Asp Ala Gln
1 5 10

<210> 7945
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<400> 7945

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

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<400> 7946

Ala Gln Arg Val Tyr Asn Gly Asp Leu Ala Gln
1 5 10

<210> 7947
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<400> 7947

Ala Gln Thr Val Pro Ala Asn Ser Ser Ala Gln
1 5 10

<210> 7948
<211> 11
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<400> 7948

Ala Gln Thr Arg His Thr Ser Leu Thr Ala Gln
1   5   10

<210> 7949
<211> 11
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<400> 7949

Ala Gln Asn His Ala Val Thr Asn Ser Ala Gln
1   5   10

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<400> 7950

Ala Gln Leu Ala Ser His Ser Thr Leu Ala Gln
1   5   10

<210> 7951
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<400> 7951

Ala Gln Val Ala Phe Lys Ser Gly Ile Ala Gln
1 5 10

<210> 7952
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<400> 7952

Ala Gln Arg Val Gly Pro Glu Ser Ser Ala Gln
1 5 10

<210> 7953
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<400> 7953

Ala Gln Ala Pro Ser Asn Val His Thr Ala Gln
1 5 10

<210> 7954
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<400> 7954

Ala Gln Thr Arg Ser Glu Val Met Lys Ala Gln
1 5 10

<210> 7955
<211> 11
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<220>

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<400> 7955

Ala Gln Leu Lys Glu Gln His Gly Gly Ala Gln
1   5   10

<210> 7956
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<400> 7956

Ala Gln Lys Ala Glu Ser His Ala Thr Ala Gln
1   5   10

<210> 7957
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<400> 7957

Ala Gln Tyr Arg Thr Asp Met Leu Ser Ala Gln
1   5   10

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<400> 7958

Ala Gln Asp Thr Gln Gly Arg Met Arg Ala Gln
1   5   10

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<400> 7959

Ala Gln Cys Leu Pro Lys Gly Cys Thr Ala Gln
1 5 10

<210> 7960
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<400> 7960

Ala Gln Gly Ser Pro Thr Val Val His Ala Gln
1 5 10

<210> 7961
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<400> 7961

Ala Gln Leu Ser Leu Ser Thr Gln Arg Ala Gln
1 5 10

<210> 7962
<211> 11
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<400> 7962

Ala Gln Asn Met Ala Gln Asn Ala Arg Ala Gln
1 5 10

<210> 7963
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<400> 7963

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

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<400> 7964

Ala Gln Thr Ser Pro Val Ile Arg Thr Ala Gln
1   5   10

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<400> 7965

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

<210> 7966
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<400> 7966

Ala Gln Leu Ser Gly Thr Ala Thr Ser Ala Gln

1 5 10

<210> 7967
<211> 11
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<400> 7967

Ala Gln Thr Gly Asn Pro Asn Pro Thr Ala Gln
1 5 10

<210> 7968
<211> 11
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<400> 7968

Ala Gln Gln Phe Glu His Ser Leu Pro Ala Gln
1 5 10

<210> 7969
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<400> 7969

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

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<400> 7970

Ala Gln Leu Met Asn Ala Lys Thr Thr Ala Gln
1 5 10

<210> 7971
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<400> 7971

Ala Gln Gln Arg Asp Thr Asn Met Ala Ala Gln
1 5 10

<210> 7972
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<400> 7972

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

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<400> 7973

Ala Gln Asp Val Lys Asp Lys Gln Ile Ala Gln
1 5 10

<210> 7974
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<400> 7974

Ala Gln Val Thr Ile Ser Asn Lys Pro Ala Gln
1   5   10

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<400> 7975

Ala Gln Ser Thr Pro Ile Asn Ser Arg Ala Gln
1   5   10

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<400> 7976

Ala Gln Gly Thr His Gly Leu Thr Ser Ala Gln
1   5   10

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<400> 7977

Ala Gln Gln Ser Pro Gly Met Ile His Ala Gln
1   5   10

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<400> 7978

Ala Gln Gln Thr Gly Pro Val Leu Ser Ala Gln
1 5 10

<210> 7979
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<400> 7979

Ala Gln Thr Tyr Val Ser Ser Gly Pro Ala Gln
1 5 10

<210> 7980
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<400> 7980

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

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<400> 7981

Ala Gln Tyr Thr His Lys Asp Asn Asp Ala Gln
1 5 10

<210> 7982
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<400> 7982

Ala Gln Leu Gly Ala Gln Ser Thr Leu Ala Gln
1   5   10

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<400> 7983

Ala Gln Leu Ala Gln Val Arg Pro Ala Ala Gln
1   5   10

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<400> 7984

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

<210> 7985
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<400> 7985

Ala Gln Ser Asn Arg Val Arg Asp Leu Ala Gln
1   5   10

<210> 7986
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<400> 7986

Ala Gln Glu Arg Asp Arg Glu Lys Leu Ala Gln
1   5   10

<210> 7987
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<400> 7987

Ala Gln Lys Ser Gly Thr Ser Ser Thr Ala Gln
1   5   10

<210> 7988
<211> 11
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<400> 7988

Ala Gln Ala Gly Gln Ser Thr Ile Tyr Ala Gln
1   5   10

<210> 7989
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<400> 7989

Ala Gln Glu Phe Ser Gln Pro Arg Leu Ala Gln
1 5 10

<210> 7990
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<400> 7990

Ala Gln Thr Tyr Ala Arg Ser Asp Lys Ala Gln
1 5 10

<210> 7991
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<400> 7991

Ala Gln Gly Lys Phe Asn Gly His Thr Ala Gln
1 5 10

<210> 7992
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<400> 7992

Ala Gln Arg Leu Ile Ser Asn Gly Asn Ala Gln
1 5 10

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<400> 7993

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

<210> 7994
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<400> 7994

Ala Gln Asn Arg His Thr Leu Ala Val Ala Gln
1   5   10

<210> 7995
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<400> 7995

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

<210> 7996
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<400> 7996

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

<210> 7997

<211> 11
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<400> 7997

Ala Gln Leu Thr Thr Ser Val Ile Ser Ala Gln
1   5   10

<210> 7998
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<400> 7998

Ala Gln Phe Lys Gly Val Ala His Ile Ala Gln
1   5   10

<210> 7999
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<400> 7999

Ala Gln Lys Thr Thr Glu Ala Leu Pro Ala Gln
1   5   10

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<400> 8000

Ala Gln Arg Asn Gln His Asp Thr Thr Ala Gln
1   5   10

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<400> 8001

Ala Gln Asn Lys Leu Leu Pro Arg Ser Ala Gln
1   5   10

<210> 8002
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<400> 8002

Ala Gln Val Asn Ser His Glu Arg Ala Ala Gln
1   5   10

<210> 8003
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<400> 8003

Ala Gln Ala Lys Gly Ser Leu Asn Met Ala Gln
1   5   10

<210> 8004
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<400> 8004

Ala Gln Val Lys Thr Asp Arg Val Leu Ala Gln
1   5   10

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<400> 8005

Ala Gln Pro Arg Ser Asp Gln Ile Arg Ala Gln
1   5   10

<210> 8006
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<400> 8006

Ala Gln Asn Arg Val Gly Thr Glu Arg Ala Gln
1   5   10

<210> 8007
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<400> 8007

Ala Gln Gly Val Pro Thr Ala Gly Thr Ala Gln
1   5   10

<210> 8008
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<400> 8008

Ala Gln Ser Leu Met Lys Gln Ser His Ala Gln
1   5   10

<210> 8009
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<400> 8009

Ala Gln Gly Thr Ser Ser Asn Ile Met Ala Gln
1   5   10

<210> 8010
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<400> 8010

Ala Gln Leu Arg Ser Asp Ile Ser Thr Ala Gln
1   5   10

<210> 8011
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<400> 8011

Ala Gln Met Thr Thr Gly Arg Asp Leu Ala Gln
1   5   10

<210> 8012
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<400> 8012

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

<210> 8013
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<400> 8013

Ala Gln Ala Val Pro Ser Tyr Asn Asn Ala Gln
1   5   10

<210> 8014
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<400> 8014

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

<210> 8015
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<400> 8015

Ala Gln Asn Ser His Ser Thr Ser Trp Ala Gln
1   5   10

<210> 8016
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<400> 8016

Ala Gln Met Tyr His Thr Gly Gln Val Ala Gln
1   5   10

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<400> 8017

Ala Gln Arg Asp Lys Leu Tyr Ile Ala Ala Gln
1   5   10

<210> 8018
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<400> 8018

Ala Gln Arg Lys Ser Glu Ala Val Leu Ala Gln
1   5   10

<210> 8019
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<400> 8019

Ala Gln His Lys Gly Ile Gln Val Ile Ala Gln

1 5 10

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<400> 8020

Ala Gln Ile Gly Lys Asp Ala Pro Lys Ala Gln
1 5 10

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<400> 8021

Ala Gln Ser Leu Ala Gly Leu Gln Asp Ala Gln
1 5 10

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<400> 8022

Ala Gln Phe Arg Val Ser Val Ala Glu Ala Gln
1 5 10

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<400> 8023

Ala Gln Thr His Lys Glu His Ser Ile Ala Gln
1 5 10

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<400> 8024

Ala Gln Asn Ser Asn His Thr Tyr Arg Ala Gln
1 5 10

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<400> 8025

Ala Gln Phe Asn Gly Val Arg Thr Val Ala Gln
1 5 10

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<400> 8026

Ala Gln His Met Gly Met Arg Asp Gly Ala Gln
1 5 10

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<400> 8027

Ala Gln Gly Gln Gln Ser Met Ala Val Ala Gln
1   5   10

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<400> 8028

Ala Gln Trp Ser Ser Gln Val Asn Arg Ala Gln
1   5   10

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<400> 8029

Ala Gln Gly Ser His Val Gly Met Pro Ala Gln
1   5   10

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<400> 8030

Ala Gln Lys Gly Ser Leu Thr Ala Ser Ala Gln
1   5   10

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<400> 8031

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

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<400> 8032

Ala Gln Asn Asp Tyr Asn His Thr Arg Ala Gln
1   5   10

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<400> 8033

Ala Gln Gln Ile Asn Pro Ser Ser Val Ala Gln
1   5   10

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<400> 8034

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

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<400> 8035

Ala Gln Ser Ala Ser Thr Met Ser Phe Ala Gln
1   5   10

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<400> 8036

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

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<400> 8037

Ala Gln Ser Thr Thr Leu Ala Ser Lys Ala Gln
1   5   10

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<400> 8038

Ala Gln His Arg Met Leu Asp Gly Val Ala Gln
1 5 10

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<400> 8039

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

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<400> 8040

Ala Gln Leu Tyr Asp Ser Ser His Ser Ala Gln
1 5 10

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<211> 11
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<400> 8041

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

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<400> 8042

Ala Gln Met His Asn Val Ala Thr Val Ala Gln
1 5 10

<210> 8043
<211> 11
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<400> 8043

Ala Gln Thr Asn Tyr Gly Asp Ser Val Ala Gln
1 5 10

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<400> 8044

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

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<211> 11
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<220>
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<400> 8045

Ala Gln Phe Gly Lys Thr Ala Ala Thr Ala Gln
1 5 10

<210> 8046
<211> 11
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<400> 8046

Ala Gln Asn Thr Lys Val Asn Thr Glu Ala Gln
1   5   10

<210> 8047
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<400> 8047

Ala Gln Val Thr Gly His Leu Ser Ser Ala Gln
1   5   10

<210> 8048
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<400> 8048

Ala Gln Val Ala Thr Ser His Leu Lys Ala Gln
1   5   10

<210> 8049
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<400> 8049

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

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<400> 8050

Ala Gln Gly Phe Thr Thr Val Thr His Ala Gln
1 5 10

<210> 8051
<211> 11
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<400> 8051

Ala Gln Ala Ala Ala Thr Ser Thr Thr Ala Gln
1 5 10

<210> 8052
<211> 11
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<400> 8052

Ala Gln Ala Asn Ile His Val His Gly Ala Gln
1 5 10

<210> 8053
<211> 11
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<400> 8053

Ala Gln Tyr Ser Leu Arg Gly Asn Asp Ala Gln
1 5 10

<210> 8054
<211> 11
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<400> 8054

Ala Gln Ile Asp Gln Ile Val Gln Arg Ala Gln
1   5   10

<210> 8055
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<400> 8055

Ala Gln Phe Asn Ser Asp Leu Ala Met Ala Gln
1   5   10

<210> 8056
<211> 11
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<220>
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<400> 8056

Ala Gln Asn Met Glu Ser Gln Arg Tyr Ala Gln
1   5   10

<210> 8057
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<400> 8057

Ala Gln Pro Leu Ser Ser Ser Leu Ser Ala Gln
1 5 10

<210> 8058
<211> 11
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<400> 8058

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

<210> 8059
<211> 11
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<400> 8059

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

<210> 8060
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<400> 8060

Ala Gln Ala Asn Gly Lys Ile Gln Leu Ala Gln
1 5 10

<210> 8061
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<400> 8061

Ala Gln Tyr Ser Lys Asp Arg His Asp Ala Gln
1   5   10

<210> 8062
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<400> 8062

Ala Gln Asp Ser Thr Ser Arg Ala Trp Ala Gln
1   5   10

<210> 8063
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<400> 8063

Ala Gln Gly Leu Ser Val Ala Ile Pro Ala Gln
1   5   10

<210> 8064
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<400> 8064

Ala Gln Ser Tyr Leu Thr Asn His Val Ala Gln
1   5   10

<210> 8065
<211> 11
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<400> 8065

Ala Gln Val Ile Thr His Asn Met Pro Ala Gln
1 5 10

<210> 8066
<211> 11
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<400> 8066

Ala Gln Asn Arg Thr His Val Pro Gln Ala Gln
1 5 10

<210> 8067
<211> 11
<212> PRT
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<400> 8067

Ala Gln Leu Gln Thr Thr Arg Ala Val Ala Gln
1 5 10

<210> 8068
<211> 11
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<220>
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<400> 8068

Ala Gln Ala Pro Asn Ala Ile Asp Val Ala Gln
1 5 10

<210> 8069
<211> 11
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<400> 8069

Ala Gln Val Arg Asp Asn Thr Val Tyr Ala Gln
1   5   10

<210> 8070
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<400> 8070

Ala Gln Thr Arg Ile Gly Thr Ser Leu Ala Gln
1   5   10

<210> 8071
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<400> 8071

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

<210> 8072
<211> 11
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<400> 8072

Ala Gln His Leu Asp Thr Met Arg Gly Ala Gln

1 5 10

<210> 8073
<211> 11
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<220>
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<400> 8073

Ala Gln Leu Ser Ser Thr Thr Leu Asn Ala Gln
1 5 10

<210> 8074
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<400> 8074

Ala Gln Val Gln Ser Asn Arg Thr Asn Ala Gln
1 5 10

<210> 8075
<211> 11
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<400> 8075

Ala Gln Asn Asn Asn Ile Thr Thr Ser Ala Gln
1 5 10

<210> 8076
<211> 11
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<400> 8076

Ala Gln Val Gly Thr Ala Gly Lys Leu Ala Gln
1 5 10

<210> 8077
<211> 11
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<220>
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<400> 8077

Ala Gln Pro Ala Ile Ser Thr Asp His Ala Gln
1 5 10

<210> 8078
<211> 11
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<400> 8078

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

<210> 8079
<211> 11
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<400> 8079

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

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<400> 8080

Ala Gln Ala Ser Lys Gly Met Thr Leu Ala Gln
1   5   10

<210> 8081
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<400> 8081

Ala Gln Ala Thr Ala Gln Asp Lys Thr Ala Gln
1   5   10

<210> 8082
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<400> 8082

Ala Gln Trp Asp Ser Ser Ser Val Arg Ala Gln
1   5   10

<210> 8083
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<400> 8083

Ala Gln Thr Asn Gly Ser Glu Lys Ser Ala Gln
1   5   10

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<400> 8084

Ala Gln Ser Ala Glu Asn His Thr Tyr Ala Gln
1   5   10

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<400> 8085

Ala Gln Ser Val Pro Gln Ala Tyr Gln Ala Gln
1   5   10

<210> 8086
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<400> 8086

Ala Gln Lys Asp Tyr Val Val Thr Asn Ala Gln
1   5   10

<210> 8087
<211> 11
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<400> 8087

Ala Gln Val Val Gln Met Lys Gln Thr Ala Gln
1   5   10

<210> 8088
<211> 11
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<400> 8088

Ala Gln Arg Thr Leu Ser Leu Thr Ala Ala Gln
1   5   10

<210> 8089
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<400> 8089

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

<210> 8090
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<400> 8090

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

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<400> 8091

Ala Gln Thr Thr Gly Met Asp Val Lys Ala Gln
1   5   10

<210> 8092
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<400> 8092

Ala Gln Asn Asn Arg Asp Thr Thr Asn Ala Gln
1   5   10

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<400> 8093

Ala Gln Trp Gly Asn Tyr Thr Pro Thr Ala Gln
1   5   10

<210> 8094
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<400> 8094

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

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<400> 8095

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

<210> 8096
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<400> 8096

Ala Gln Arg Ser Ala Ser Val Glu Asn Ala Gln
1 5 10

<210> 8097
<211> 11
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<220>
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<400> 8097

Ala Gln Ser Leu Ser Leu Gly Lys Gly Ala Gln
1 5 10

<210> 8098
<211> 11
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<400> 8098

Ala Gln Lys Arg Glu Val Val Gly Asp Ala Gln
1 5 10

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<400> 8099

Ala Gln Ile Gln Pro Ser Asn His Glu Ala Gln
1   5   10

<210> 8100
<211> 11
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<400> 8100

Ala Gln Met Asn Leu Gly Asn Ala Pro Ala Gln
1   5   10

<210> 8101
<211> 11
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<400> 8101

Ala Gln Gln Pro Asn Asn Thr Asn Ser Ala Gln
1   5   10

<210> 8102
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<400> 8102

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

<210> 8103

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<400> 8103

Ala Gln His Gly Asn Thr Thr Ser Thr Ala Gln
1 5 10

<210> 8104
<211> 11
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<400> 8104

Ala Gln Ile Gln Ser Thr Val Thr Leu Ala Gln
1 5 10

<210> 8105
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<400> 8105

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

<210> 8106
<211> 11
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<400> 8106

Ala Gln Gln Thr Ala Thr Asn Ile Leu Ala Gln
1 5 10

<210> 8107
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<400> 8107

Ala Gln Arg Gln His Ala Asp Thr Val Ala Gln
1   5   10

<210> 8108
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<400> 8108

Ala Gln Thr Arg Ser Glu Ser Ser Leu Ala Gln
1   5   10

<210> 8109
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<400> 8109

Ala Gln Arg Gly His Asp Pro Ala Val Ala Gln
1   5   10

<210> 8110
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<400> 8110

Ala Gln Ser Thr Ser Gln Thr Asp Leu Ala Gln
1 5 10

<210> 8111
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<400> 8111

Ala Gln Val Ser Thr Ser Ala Val Leu Ala Gln
1 5 10

<210> 8112
<211> 11
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<400> 8112

Ala Gln Ser Met Pro Pro Glu Arg Phe Ala Gln
1 5 10

<210> 8113
<211> 11
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<400> 8113

Ala Gln Val Thr Ser Ala His Pro Val Ala Gln
1 5 10

<210> 8114
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<400> 8114

Ala Gln Thr Ser Arg Gln Val Gly Leu Ala Gln
1   5   10

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<400> 8115

Ala Gln Thr Pro Lys Phe Ser Tyr Glu Ala Gln
1   5   10

<210> 8116
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<400> 8116

Ala Gln Asn Arg Met Ala Ser Thr Met Ala Gln
1   5   10

<210> 8117
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<400> 8117

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

<210> 8118
<211> 11
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<400> 8118

Ala Gln Leu Thr Thr Ile Pro Ser Thr Ala Gln
1   5   10

<210> 8119
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<400> 8119

Ala Gln Ala Asn Arg Ile Arg Asp Asn Ala Gln
1   5   10

<210> 8120
<211> 11
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<400> 8120

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

<210> 8121
<211> 11
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<400> 8121

Ala Gln Met Pro His Gly Leu Lys Asn Ala Gln
1   5   10

<210> 8122
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<400> 8122

Ala Gln Pro Phe Thr Gln Asn His Leu Ala Gln
1   5   10

<210> 8123
<211> 11
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<400> 8123

Ala Gln Asn Ala Asn Gly Asn Thr Arg Ala Gln
1   5   10

<210> 8124
<211> 11
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<400> 8124

Ala Gln Leu Ala Tyr Ser Thr Ser Ala Ala Gln
1   5   10

<210> 8125
<211> 11
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<400> 8125

Ala Gln Thr Asp Arg Tyr Asn Ile Lys Ala Gln

1 5 10

<210> 8126
<211> 11
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<400> 8126

Ala Gln Tyr Val Thr Ser Ala Glu His Ala Gln
1 5 10

<210> 8127
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<400> 8127

Ala Gln Ser His Gln Gln Thr Thr Val Ala Gln
1 5 10

<210> 8128
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<400> 8128

Ala Gln Leu Asn Met Gln Thr Arg Gly Ala Gln
1 5 10

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<400> 8129

Ala Gln Tyr Thr Pro Gln Leu Lys Ser Ala Gln
1 5 10

<210> 8130
<211> 11
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<400> 8130

Ala Gln Gln Ile Asn Gly Gln Val Ile Ala Gln
1 5 10

<210> 8131
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<400> 8131

Ala Gln Thr Arg Glu Gly Val Leu Pro Ala Gln
1 5 10

<210> 8132
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<400> 8132

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

<210> 8133
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<400> 8133

Ala Gln Pro Tyr Ser Met Gly His Pro Ala Gln
1   5   10

<210> 8134
<211> 11
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<400> 8134

Ala Gln Gly Thr Lys Thr His Ser Leu Ala Gln
1   5   10

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Ala Gln Thr Leu Thr Thr Gly Ser Lys Ala Gln
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Ala Gln Phe Thr Ile Gly Val Thr Gly Ala Gln
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Ala Gln Leu Ser Ser His Asn His Asn Ala Gln
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Ala Gln Thr Gly Lys Met Pro Leu Glu Ala Gln
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Ala Gln Thr Ala Asn Pro His Ala Thr Ala Gln
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Ala Gln His Asp Ser Val Ala Ser Ser Ala Gln
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Ala Gln Thr Arg Ala Asp Val Leu Met Ala Gln
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Ala Gln Ala Asn His Ala Ser Asn Ala Ala Gln
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Ala Gln Ser His Ile Val Gly Val Glu Ala Gln
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Ala Gln Tyr Thr Ala Gln Lys Thr Ser Ala Gln
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Ala Gln Leu Pro Ala Val Gln Lys Met Ala Gln
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Ala Gln Ser Gly Ile Gln Thr Ala Lys Ala Gln
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Ala Gln Asp Pro Val Lys Ile Gly His Ala Gln
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<400> 8148

Ala Gln Ser Gln Thr Met Ser Lys Ser Ala Gln
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<400> 8149

Ala Gln Ser Leu Thr Pro Thr Asn Ile Ala Gln
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Ala Gln Tyr Leu Asn Asn Thr Asn Ser Ala Gln
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<400> 8151

Ala Gln Met Thr Arg Met Ser Gln Asn Ala Gln
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Ala Gln Val Asn Gln Ser Leu Ser Arg Ala Gln
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Ala Gln Arg Thr Val Thr Asp Asn Arg Ala Gln
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Ala Gln Ile Thr Gly Val Phe Ala Asn Ala Gln
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Ala Gln Ser Pro Gly Leu Ser Arg Val Ala Gln
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<400> 8156

Ala Gln Val Val Asn Pro Gln Thr Arg Ala Gln
1 5 10

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<400> 8157

Ala Gln Trp Ser Gln Ser Leu Ser Ala Ala Gln
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<400> 8158

Ala Gln Pro Arg Asp Ala Ser Asn Asp Ala Gln
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<400> 8159

Ala Gln Tyr Thr Ser Met Thr Glu Phe Ala Gln
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<400> 8160

Ala Gln Asn Asn Ser Pro Ser Pro Arg Ala Gln
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Ala Gln Asn Ser Leu Ser His Gly Asp Ala Gln
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<400> 8162

Ala Gln Arg Val Ala Gly Glu Met Ala Ala Gln
1   5   10

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<400> 8163

Ala Gln Gly Ile Gly Ser Arg Glu Leu Ala Gln
1 5 10

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<400> 8164

Ala Gln Tyr Val Ser Arg Ile Arg Asp Ala Gln
1 5 10

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<400> 8165

Ala Gln Tyr Pro Ser Pro Asn Asp Asn Ala Gln
1 5 10

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<400> 8166

Ala Gln Leu Gln Arg Thr Ala His Asn Ala Gln
1 5 10

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<400> 8167

Ala Gln Leu Asp Ser Leu Ser Arg His Ala Gln
1   5   10

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<400> 8168

Ala Gln Thr Lys Ile Ser Ala Gly Ser Ala Gln
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<400> 8169

Ala Gln Lys Asp Asn Ser Pro Val Val Ala Gln
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Ala Gln Thr Gly Gln Gly Ser Ser Leu Ala Gln
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<400> 8171

Ala Gln Asp Thr His Leu Ser Arg His Ala Gln
1 5 10

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<400> 8172

Ala Gln Asp Ile Val Arg Arg Gln Ala Ala Gln
1 5 10

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<400> 8173

Ala Gln Ala Met Lys Tyr Ala Gln Thr Ala Gln
1 5 10

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Ala Gln Arg Leu Ala Asp Gln His Pro Ala Gln
1 5 10

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<400> 8175

Ala Gln Ala Pro Asp Ser Thr Arg Met Ala Gln
1   5   10

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<400> 8176

Ala Gln Ser Arg Val Ser Pro Ser Ser Ala Gln
1   5   10

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Ala Gln Val His Gly Gln Gly Glu Pro Ala Gln
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Ala Gln Met Arg Asp Ser Ser Thr Arg Ala Gln

1 5 10

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<400> 8179

Ala Gln Trp Pro Gln His Thr Asn Thr Ala Gln
1 5 10

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Ala Gln Val Gly Ser Tyr Pro Val Thr Ala Gln
1 5 10

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<400> 8181

Ala Gln Thr Ala Thr Gln Gly Ala Asn Ala Gln
1 5 10

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<400> 8182

Ala Gln Lys Asn Asn Ser Met Asp Ser Ala Gln
1 5 10

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<400> 8183

Ala Gln His Thr Asn Ala Val Lys Glu Ala Gln
1 5 10

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Ala Gln Leu His Ser Val Thr Thr Pro Ala Gln
1 5 10

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<400> 8185

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

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<400> 8186

Ala Gln Ser Tyr Thr Asn Arg Thr Met Ala Gln
1   5   10

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<400> 8187

Ala Gln Ser Gly Gln Ser Asn Thr Lys Ala Gln
1   5   10

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<400> 8188

Ala Gln Asp Ser Tyr Arg Ala Gln Ser Ala Gln
1   5   10

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<400> 8189

Ala Gln Met Tyr Lys His Asn Ser Asp Ala Gln
1   5   10

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<400> 8190

Ala Gln Ser Leu Ala Met Val Asn Pro Ala Gln
1   5   10

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Ala Gln Pro Leu Thr Ser Lys Ser Met Ala Gln
1   5   10

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<400> 8192

Ala Gln Leu Gly Ala Gln Pro Thr Pro Ala Gln
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Ala Gln Glu Gly Asn Gln Lys Pro Gln Ala Gln
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Ala Gln Gln Val Arg Pro Gly Ala His Ala Gln
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<400> 8195

Ala Gln Ser Gly Asn Ile Thr Ala Met Ala Gln
1   5   10

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Ala Gln Asn Asp Ser Lys Ile Ala Glu Ala Gln
1   5   10

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<400> 8197

Ala Gln Ile Met Lys Asn Glu His Asn Ala Gln
1 5 10

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

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<400> 8199

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

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<400> 8200

Ala Gln Ile Asp His Gly Lys Thr Asn Ala Gln
1 5 10

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<400> 8201

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

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<400> 8202

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

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<400> 8203

Ala Gln Ile Met Gln Ser Ile Gln Asn Ala Gln
1   5   10

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<400> 8204

Ala Gln Lys Val Ser Pro Ser Ser Thr Ala Gln
1   5   10

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<400> 8205

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

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<400> 8206

Ala Gln Gly Ala Ala Arg Ala Gln Ala Ala Gln
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<400> 8207

Ala Gln Lys Phe Gln Ser Pro Glu Pro Ala Gln
1   5   10

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<400> 8208

Ala Gln Met Ala Thr Asn Ser Thr Glu Ala Gln
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<400> 8209

Ala Gln Asn Val Leu Thr Asn Ile Ser Ala Gln
1 5 10

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<400> 8210

Ala Gln Lys Asn Gly Met Asn Leu Val Ala Gln
1 5 10

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<400> 8211

Ala Gln Thr Pro Thr Gln Pro Ser Ser Ala Gln
1 5 10

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<400> 8212

Ala Gln Thr Lys Glu Leu Val Ile His Ala Gln
1 5 10

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<400> 8213

Ala Gln Ile Met Asn Gln Ser Val Gln Ala Gln
1 5 10

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<400> 8214

Ala Gln Val Ser Asn Ala Arg Asp Lys Ala Gln
1 5 10

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<400> 8215

Ala Gln Ser Asn His Thr Arg Ser Tyr Ala Gln
1 5 10

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<400> 8216

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

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<400> 8217

Ala Gln Ala Ala Pro Ser Met Ser Asp Ala Gln
1 5 10

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<400> 8218

Ala Gln Phe Ser Asn Thr His Ala Leu Ala Gln
1 5 10

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<400> 8219

Ala Gln Ala His Asp Leu His Arg Val Ala Gln
1 5 10

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<400> 8220

Ala Gln Leu Gln Val Asn His Val Ala Ala Gln
1   5   10

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<400> 8221

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

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<400> 8222

Ala Gln Thr Tyr Thr Ser Thr Pro Gly Ala Gln
1   5   10

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<400> 8223

Ala Gln Tyr Gly Thr Pro Pro Ser Thr Ala Gln
1   5   10

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<400> 8224

Ala Gln Tyr Gly Val Ser Ser Gly Ser Ala Gln
1 5 10

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<400> 8225

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

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<400> 8226

Ala Gln Lys Ile Asp Ala Met Thr Gln Ala Gln
1 5 10

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<400> 8227

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

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<400> 8228

Ala Gln Phe Asp Pro Leu Gln Ser Ser Ala Gln
1   5   10

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Ala Gln Leu Leu His His Val Glu Val Ala Gln
1   5   10

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

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Ala Gln Leu Leu Asn Asp Arg Ser Val Ala Gln

1 5 10

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<400> 8232

Ala Gln Phe Val Asp Arg Arg Pro Gln Ala Gln
1 5 10

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<400> 8233

Ala Gln Thr Asn Val Thr Thr Thr Thr Ala Gln
1 5 10

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<400> 8234

Ala Gln Asp Glu Thr Asn Lys Arg Trp Ala Gln
1 5 10

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<400> 8235

Ala Gln Thr Ser Thr Ser Ala Ile Arg Ala Gln
1 5 10

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<400> 8236

Ala Gln Gly Thr Ser Arg Val Gln Gly Ala Gln
1 5 10

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<400> 8237

Ala Gln Leu Asn Thr Met Ala Leu Pro Ala Gln
1 5 10

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<400> 8238

Ala Gln Ser Thr His Ala Thr Asp Arg Ala Gln
1 5 10

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<400> 8239

Ala Gln His His Gly Val Thr Ser Gly Ala Gln
1   5   10

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<400> 8240

Ala Gln Gly Leu Met Ala Asn Asn Pro Ala Gln
1   5   10

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<400> 8241

Ala Gln Gly Ser Ser Ser Asn Ser Phe Ala Gln
1   5   10

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<400> 8242

Ala Gln Arg Glu Lys Met Thr Leu Leu Ala Gln
1   5   10

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<400> 8243

Ala Gln Ser Pro Val Ser Ser Asp Ser Ala Gln
1   5   10

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<400> 8244

Ala Gln Asp Val Ala His Lys Asp Arg Ala Gln
1   5   10

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<400> 8245

Ala Gln Ser Met Val Ser Asn Ile Ala Ala Gln
1   5   10

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<400> 8246

Ala Gln Met Met His Asn Met Gln Ser Ala Gln
1   5   10

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<400> 8247

Ala Gln Val Ser Asn Ser Ser Arg Met Ala Gln
1   5   10

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<400> 8248

Ala Gln Tyr Thr Ala Thr Lys Ala Ser Ala Gln
1   5   10

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<400> 8249

Ala Gln Ser Thr Ser Gly Gly Val Arg Ala Gln
1   5   10

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<400> 8250

Ala Gln Phe Thr Arg Ala Glu Pro Ala Ala Gln
1 5 10

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Ala Gln Pro Ile Thr Arg Gly Thr Ile Ala Gln
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Ala Gln Tyr His Asn Ser Met Leu Gly Ala Gln
1 5 10

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Ala Gln Ser Asn Ser Pro Gly Asn Ala Ala Gln
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Ala Gln Gln Lys Gly Val Gln Leu Pro Ala Gln
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<400> 8255

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

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Ala Gln Gln Thr Arg His Thr Ser Met Ala Gln
1 5 10

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Ala Gln Met His Ala Asp Arg Ala Leu Ala Gln
1   5   10

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<400> 8259

Ala Gln Ser Thr Thr His Ala Pro Lys Ala Gln
1   5   10

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<400> 8260

Ala Gln Ser Asn Gln Thr Ile Met Thr Ala Gln
1   5   10

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

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<400> 8262

Ala Gln Lys Arg Gly Glu Glu Met Val Ala Gln
1 5 10

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<400> 8263

Ala Gln Gln Asp Ser Gly Asn Ser Tyr Ala Gln
1 5 10

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<400> 8264

Ala Gln Ser His Ala Thr Thr Gly Gly Ala Gln
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<400> 8265

Ala Gln Lys Leu Ser Glu Thr Ser His Ala Gln
1 5 10

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<400> 8266

Ala Gln Leu Asn Tyr Lys Glu Ala Pro Ala Gln
1   5   10

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<400> 8267

Ala Gln Ser Val Asp Ser Val Arg Leu Ala Gln
1   5   10

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<400> 8268

Ala Gln Gln Pro Asn Val Ile Gln Thr Ala Gln
1   5   10

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<400> 8269

Ala Gln Arg Met Thr Asn Leu Gln Thr Ala Gln
1 5 10

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<400> 8270

Ala Gln Ala Thr Pro Gly Gly Ser Gly Ala Gln
1 5 10

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<400> 8271

Ala Gln Asp Val Asn Ser Met Ser Ser Ala Gln
1 5 10

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<400> 8272

Ala Gln Leu Pro Arg Ser His Leu Asp Ala Gln
1 5 10

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<400> 8273

Ala Gln Pro Ala Pro Arg Tyr Asp Lys Ala Gln
1 5 10

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Ala Gln Arg Asn Tyr Ser Asp Lys Asp Ala Gln
1 5 10

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Ala Gln Ser Glu Asn Leu Leu Ser Arg Ala Gln
1 5 10

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Ala Gln Ser Ser Leu Asn Met Lys Asp Ala Gln
1 5 10

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Ala Gln Ser Asp Lys Glu Tyr Gly Arg Ala Gln
1 5 10

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<400> 8278

Ala Gln Tyr Val Ser Gln Ser Gly Met Ala Gln
1 5 10

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<400> 8279

Ala Gln Asn Val Val Ser Val Arg Gln Ala Gln
1 5 10

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<400> 8280

Ala Gln Thr Gly Lys Glu Gly Arg Thr Ala Gln
1 5 10

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<400> 8281

Ala Gln Phe Lys Asn Thr Val Ala Thr Ala Gln
1   5   10

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<400> 8282

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

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Ala Gln Arg Glu Lys Val Ser Thr Pro Ala Gln
1   5   10

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Ala Gln Gln Glu Pro Ala Arg His Asn Ala Gln

1 5 10

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Ala Gln Thr Ser His Ser Asn Gly Arg Ala Gln
1 5 10

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<400> 8286

Ala Gln Asp Leu Ser Ser Pro Lys Met Ala Gln
1 5 10

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<400> 8287

Ala Gln Leu Ala Thr Thr Pro Lys Pro Ala Gln
1 5 10

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<400> 8288

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

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<400> 8289

Ala Gln Pro Val Tyr Asn Ala Ser Pro Ala Gln
1 5 10

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Ala Gln Asn Ser Thr Thr Leu Val Met Ala Gln
1 5 10

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Ala Gln Arg Asn Ala Val Val Ser Met Ala Gln
1 5 10

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<400> 8292

Ala Gln Lys Asp Leu Leu Ala Lys Leu Ala Gln
1   5   10

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<400> 8293

Ala Gln Pro His Glu Gly Ser Ser Arg Ala Gln
1   5   10

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<400> 8294

Ala Gln Arg Asp Thr Val Ser Arg Tyr Ala Gln
1   5   10

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<400> 8295

Ala Gln Gly Gln Ala Ala Gln Gly His Ala Gln
1   5   10

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<400> 8296

Ala Gln Arg Ala Glu Thr Ala His Val Ala Gln
1   5   10

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<400> 8297

Ala Gln Glu Asn Arg Thr Val Pro Thr Ala Gln
1   5   10

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<400> 8298

Ala Gln Ser Ser Asn Asp Ala Arg Val Ala Gln
1   5   10

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<400> 8299

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

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<400> 8300

Ala Gln Gly Pro Gly Ala Asn Thr Thr Ala Gln
1   5   10

<210> 8301
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<400> 8301

Ala Gln Met Pro Glu Asn Leu Lys Glu Ala Gln
1   5   10

<210> 8302
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<400> 8302

Ala Gln Thr Asn Ala Val Ala Ser Asn Ala Gln
1   5   10

<210> 8303
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<400> 8303

Ala Gln Tyr Gly Lys Ile Glu Leu Tyr Ala Gln
1   5   10

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<400> 8304

Ala Gln Asn Pro Asn Gly Thr Gly Phe Ala Gln
1   5   10

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<400> 8305

Ala Gln Ser Arg Asn Thr Met Gly Ser Ala Gln
1   5   10

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<400> 8306

Ala Gln Pro Ser His Gly Ile Thr Ala Ala Gln
1   5   10

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<400> 8307

Ala Gln Leu Glu Thr Leu Arg Gly Pro Ala Gln
1 5 10

<210> 8308
<211> 11
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<400> 8308

Ala Gln Asp Arg Ser Pro Asp Ile Arg Ala Gln
1 5 10

<210> 8309
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<400> 8309

Ala Gln Lys Asp Leu Ala Ser Ala Lys Ala Gln
1 5 10

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<400> 8310

Ala Gln Ile Thr Ser His Gly Asn Ser Ala Gln
1 5 10

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Ala Gln His Ser Lys Met Pro Ser Thr Ala Gln
1   5   10

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<400> 8312

Ala Gln Ile Ala Thr Phe Thr Thr Ala Ala Gln
1   5   10

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<400> 8313

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

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<400> 8314

Ala Gln Asp Ser Val Arg Pro Ala Ile Ala Gln
1   5   10

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Ala Gln Arg Leu Ser Glu Glu Met Arg Ala Gln
1   5   10

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<400> 8316

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

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<400> 8317

Ala Gln Ser Asn Val Ala Ala Gln Met Ala Gln
1   5   10

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<400> 8318

Ala Gln Tyr Gln Ser Leu Ile Ser Glu Ala Gln
1   5   10

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Ala Gln Tyr Gln Ser Gly Tyr Asp Lys Ala Gln
1 5 10

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<400> 8320

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

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Ala Gln Pro Ala Thr Asn Asn Met Arg Ala Gln
1 5 10

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<400> 8322

Ala Gln Val Ser Ser Ser Lys Phe Ser Ala Gln
1 5 10

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<400> 8323

Ala Gln Thr Thr Leu Leu Asp Lys Ala Ala Gln
1 5 10

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<400> 8324

Ala Gln Ser Pro Ala Leu His Pro Ser Ala Gln
1 5 10

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<400> 8325

Ala Gln Phe Asn His Asn Arg Thr Asp Ala Gln
1 5 10

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Ala Gln Ala Glu Lys Thr Ala Asn Gly Ala Gln
1 5 10

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<400> 8327

Ala Gln Asn Leu Arg Val Thr Ala Ser Ala Gln
1 5 10

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<400> 8328

Ala Gln Met Lys Asp Gly Ser Arg Ile Ala Gln
1 5 10

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<400> 8329

Ala Gln Arg Ile Gly Ala Asn Ala Thr Ala Gln
1 5 10

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<400> 8330

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

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<400> 8331

Ala Gln Ser Val Ser Asp Lys Ser His Ala Gln
1 5 10

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<400> 8332

Ala Gln Tyr Ser Thr Leu His Thr Ala Ala Gln
1 5 10

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<400> 8333

Ala Gln Thr Lys Phe Gly Gly Ile Gln Ala Gln
1 5 10

<210> 8334
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<400> 8334

Ala Gln Asp Ile Pro Lys Gly Ser Ser Ala Gln
1   5   10

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<400> 8335

Ala Gln Ile Leu Pro Ser Ser Ser Gln Ala Gln
1   5   10

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Ala Gln Val Ser Gln Thr Thr Ser Ser Ala Gln
1   5   10

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<400> 8337

Ala Gln Thr Ile His Leu His Lys Asp Ala Gln

1 5 10

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<400> 8338

Ala Gln Val Thr Asp Arg Val Gly Asn Ala Gln
1 5 10

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<400> 8339

Ala Gln Leu Pro Ala Arg Ala Ala Asn Ala Gln
1 5 10

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<400> 8340

Ala Gln His Thr Gln Ser Met Thr Val Ala Gln
1 5 10

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<400> 8341

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

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<400> 8342

Ala Gln Arg Asn Ser Glu Leu Arg Ala Ala Gln
1 5 10

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Ala Gln Gln Lys Ser Pro Asn Gly Leu Ala Gln
1 5 10

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<400> 8344

Ala Gln Lys Ser Gly Asp His Leu Thr Ala Gln
1 5 10

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<400> 8345

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

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<400> 8346

Ala Gln Met Val Ala Leu Thr Val Gly Ala Gln
1   5   10

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<400> 8347

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

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Ala Gln Ala Ser Asn Asn Gln Thr Tyr Ala Gln
1   5   10

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<400> 8349

Ala Gln Asn Asn Ile Val Thr Thr Ser Ala Gln
1   5   10

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<400> 8350

Ala Gln His Asp Thr Lys Lys Pro Met Ala Gln
1   5   10

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<400> 8351

Ala Gln Ile Asn Thr Ala Ser Tyr Lys Ala Gln
1   5   10

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<400> 8352

Ala Gln Ser Gly Met Val Ser Met Ser Ala Gln
1   5   10

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Ala Gln Leu Val Thr Ala Ser Ala Arg Ala Gln
1 5 10

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<400> 8354

Ala Gln Ser Arg Ala Pro Ser Ala Met Ala Gln
1 5 10

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Ala Gln Asn Asn Asn Gln Lys Val Tyr Ala Gln
1 5 10

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Ala Gln Thr Ser Val Val Ala Asn Pro Ala Gln
1   5   10

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<400> 8357

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

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<400> 8358

Ala Gln Tyr Ser Thr Ser Leu Glu Leu Ala Gln
1   5   10

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<400> 8359

Ala Gln Pro Ser Asn Pro Pro Lys Glu Ala Gln
1   5   10

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Ala Gln Thr Asn Ser Lys Pro Ser Trp Ala Gln
1 5 10

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Ala Gln Ser Ile Asp Arg Gln Gln Leu Ala Gln
1 5 10

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Ala Gln Asn Lys Ala Gly Pro Ala Ser Ala Gln
1 5 10

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<400> 8363

Ala Gln Ser Met Thr Thr Asn Arg Ser Ala Gln
1 5 10

<210> 8364
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<400> 8364

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

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<400> 8365

Ala Gln Arg Ser Ser Asp Val Asn Thr Ala Gln
1   5   10

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<400> 8366

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

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<400> 8367

Ala Gln Glu Lys Asp His Gly Met Ala Ala Gln
1   5   10

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<400> 8368

Ala Gln Tyr Arg Leu Pro Asp Gly Arg Ala Gln
1   5   10

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<400> 8369

Ala Gln Ser Ser Arg Glu Leu Arg Leu Ala Gln
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<400> 8370

Ala Gln Asn Gln Val Glu Ser Arg Val Ala Gln
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<400> 8371

Ala Gln Ala Leu His Ser Val Pro Lys Ala Gln
1   5   10

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<400> 8372

Ala Gln Thr Gly Pro Ser Thr Val Pro Ala Gln
1 5 10

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<400> 8373

Ala Gln Glu Pro Leu Gly Val His Pro Ala Gln
1 5 10

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<400> 8374

Ala Gln Thr Arg Thr Asp Thr Thr Asn Ala Gln
1 5 10

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<400> 8375

Ala Gln Ser His Asn Leu Thr Ala Asp Ala Gln
1 5 10

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<400> 8376

Ala Gln Asn Val Arg Arg Asp Asp Thr Ala Gln
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<400> 8377

Ala Gln Phe Ala Ala Asn Leu Val Ala Ala Gln
1 5 10

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<400> 8378

Ala Gln Ile Gly Ala Gln Ala Arg Met Ala Gln
1 5 10

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<400> 8379

Ala Gln Asn Ser Met Ser Lys Ala Tyr Ala Gln
1   5   10

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<400> 8380

Ala Gln Asn Val Asn Lys Asp Arg Val Ala Gln
1   5   10

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<400> 8381

Ala Gln Ser Phe Gln Gly Ser Ala Arg Ala Gln
1   5   10

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<400> 8382

Ala Gln Ala Asn Ser Asp His Ile His Ala Gln
1   5   10

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<400> 8383

Ala Gln Val Ser Leu Ala Ser Lys Ser Ala Gln
1 5 10

<210> 8384
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<400> 8384

Ala Gln Pro Lys Asp Arg Ala Thr Ser Ala Gln
1 5 10

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<400> 8385

Ala Gln Val Arg Ser Gln Ser Asp Ser Ala Gln
1 5 10

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<400> 8386

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

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<400> 8387

Ala Gln Ser Thr Lys Glu Ser Pro Lys Ala Gln
1   5   10

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<400> 8388

Ala Gln Leu Gln Pro Thr Thr Phe Ser Ala Gln
1   5   10

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<400> 8389

Ala Gln Pro Met His Thr Ala Met Val Ala Gln
1   5   10

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<400> 8390

Ala Gln Val Phe Ala His Thr Gly Leu Ala Gln

1 5 10

<210> 8391
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<400> 8391

Ala Gln Gln Lys Ala Thr Ser Ile His Ala Gln
1 5 10

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<400> 8392

Ala Gln Gly Ser Lys Ser Asp Asn Leu Ala Gln
1 5 10

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<400> 8393

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

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<220>
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<400> 8394

Ala Gln Thr Lys Leu Thr Thr Leu Ser Ala Gln
1 5 10

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<400> 8395

Ala Gln Pro Ile Leu His Asn Gln Ile Ala Gln
1 5 10

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<211> 11
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<400> 8396

Ala Gln Val Thr Asn Pro Ile Lys Pro Ala Gln
1 5 10

<210> 8397
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<400> 8397

Ala Gln Thr Asn Ala Leu His Met Lys Ala Gln
1 5 10

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<220>
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<400> 8398

Ala Gln Val Ala His Ala Tyr Pro Ala Ala Gln
1   5   10

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<400> 8399

Ala Gln Ala Glu His Gly Leu Gly Pro Ala Gln
1   5   10

<210> 8400
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<400> 8400

Ala Gln Met Asn Lys Tyr Ser Pro Ala Ala Gln
1   5   10

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<400> 8401

Ala Gln Thr Met Gln Asp Arg Leu Thr Ala Gln
1   5   10

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<212> PRT
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<400> 8402

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

<210> 8403
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<220>
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<400> 8403

Ala Gln Ala Gln Asn Lys Met Thr Ser Ala Gln
1 5 10

<210> 8404
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<400> 8404

Ala Gln Thr Ser Ala Leu Thr Asp Ile Ala Gln
1 5 10

<210> 8405
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<400> 8405

Ala Gln Asp Leu Arg His Ala Asp Ile Ala Gln
1 5 10

<210> 8406
<211> 11
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<400> 8406

Ala Gln Gln Asn Lys Ala Leu Thr Val Ala Gln
1   5   10

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<211> 11
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<400> 8407

Ala Gln Thr Gln Gly Ile Thr Ile Val Ala Gln
1   5   10

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<400> 8408

Ala Gln Thr Ala Thr Ile Leu Ser Gly Ala Gln
1   5   10

<210> 8409
<211> 11
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<400> 8409

Ala Gln Phe Ala Ala Ser Asn Ile Ser Ala Gln
1 5 10

<210> 8410
<211> 11
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<400> 8410

Ala Gln Arg Asn Thr Met Glu Thr Met Ala Gln
1 5 10

<210> 8411
<211> 11
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<400> 8411

Ala Gln Ser Ser Gly Thr Ser Tyr Ser Ala Gln
1 5 10

<210> 8412
<211> 11
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<400> 8412

Ala Gln Ala Asn His Gly Leu Asn Ala Ala Gln
1 5 10

<210> 8413
<211> 11
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<400> 8413

Ala Gln Met Leu Ser Asn Ser Arg Ser Ala Gln
1 5 10

<210> 8414
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<400> 8414

Ala Gln Ala Ala Ile His Ala Thr Pro Ala Gln
1 5 10

<210> 8415
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<400> 8415

Ala Gln Trp Gln Ser Phe Ala Ser Ala Ala Gln
1 5 10

<210> 8416
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<400> 8416

Ala Gln Met Gly Gly Asn Ser Ser Thr Ala Gln
1 5 10

<210> 8417
<211> 11
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<400> 8417

Ala Gln Lys Thr Asp Leu Ala Gln His Ala Gln
1   5   10

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<400> 8418

Ala Gln Val Asn Thr Thr Arg Phe Ser Ala Gln
1   5   10

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<400> 8419

Ala Gln Asn Val His Ala His Gln Ala Ala Gln
1   5   10

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<400> 8420

Ala Gln Gly Ala Met Ser Ile Gln Thr Ala Gln
1   5   10

<210> 8421

<211> 11
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<400> 8421

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

<210> 8422
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<400> 8422

Ala Gln Thr Met His Ser Lys Ser Asp Ala Gln
1   5   10

<210> 8423
<211> 11
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<400> 8423

Ala Gln Thr Val Thr Gln Thr Thr Gln Ala Gln
1   5   10

<210> 8424
<211> 11
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<400> 8424

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

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<400> 8425

Ala Gln Arg Val Ile Ala Ser Val Asn Ala Gln
1   5   10

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<400> 8426

Ala Gln Pro Ser Ser Gly Asn Ser Glu Ala Gln
1   5   10

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<400> 8427

Ala Gln Gln Pro His Gly Phe Thr Ala Ala Gln
1   5   10

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<400> 8428

Ala Gln Thr Thr Gly Thr Asn Met Arg Ala Gln
1 5 10

<210> 8429
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<400> 8429

Ala Gln Phe Thr Arg Leu Glu Asp Arg Ala Gln
1 5 10

<210> 8430
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<400> 8430

Ala Gln Asp Arg Ser Pro Ala His Thr Ala Gln
1 5 10

<210> 8431
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<400> 8431

Ala Gln His Val His Asn Thr Val Pro Ala Gln
1 5 10

<210> 8432
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<400> 8432

Ala Gln Met Asn Thr Thr Gly Thr Lys Ala Gln
1   5   10

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<400> 8433

Ala Gln Phe Ala Thr Gln Thr Ile Ala Ala Gln
1   5   10

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<400> 8434

Ala Gln Val Ser Gly Asn Ile Pro Val Ala Gln
1   5   10

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<400> 8435

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

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<400> 8436

Ala Gln Met Leu Pro Thr Val Asn Arg Ala Gln
1 5 10

<210> 8437
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<400> 8437

Ala Gln Pro Thr Thr Asn Val Leu Gly Ala Gln
1 5 10

<210> 8438
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<400> 8438

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

<210> 8439
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<400> 8439

Ala Gln Ser Pro Tyr Ser Thr Arg Pro Ala Gln
1 5 10

<210> 8440
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<400> 8440

Ala Gln Tyr Asn Met Asn Thr Glu Met Ala Gln
1   5   10

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<400> 8441

Ala Gln Gly Ala Arg Met Gly His Ser Ala Gln
1   5   10

<210> 8442
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<400> 8442

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

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<400> 8443

Ala Gln Gln Gln His Ile Pro Pro Ser Ala Gln

1 5 10

<210> 8444
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<220>
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<400> 8444

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

<210> 8445
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<220>
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<400> 8445

Ala Gln Val Asn Gly Ile Lys Glu Tyr Ala Gln
1 5 10

<210> 8446
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<220>
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<400> 8446

Ala Gln Gly Val Arg Thr Glu Pro Met Ala Gln
1 5 10

<210> 8447
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<400> 8447

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

<210> 8448
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<400> 8448

Ala Gln Phe Asn Ala Ser Pro Lys Leu Ala Gln
1 5 10

<210> 8449
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<400> 8449

Ala Gln Gly Leu Thr Thr Ser Thr Thr Ala Gln
1 5 10

<210> 8450
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<400> 8450

Ala Gln Met Ile Arg Gly Thr Ser Ser Ala Gln
1 5 10

<210> 8451
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<400> 8451

Ala Gln Thr Lys Leu Val Ala Thr Val Ala Gln
1   5   10

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<400> 8452

Ala Gln Val Ser Arg Gln Phe Glu Pro Ala Gln
1   5   10

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<400> 8453

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

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<400> 8454

Ala Gln Thr Gln Asn Leu Ser Ser His Ala Gln
1   5   10

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<400> 8455

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

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<400> 8456

Ala Gln Gly Arg Gly Pro Glu Ala Gln Ala Gln
1   5   10

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<400> 8457

Ala Gln Pro Arg Asn Val Gly Leu Glu Ala Gln
1   5   10

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<400> 8458

Ala Gln Phe Asn Ser Ser Ile Pro Thr Ala Gln
1   5   10

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<400> 8459

Ala Gln Gly Asn Gln Gln His Ser Ser Ala Gln
1 5 10

<210> 8460
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<220>
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<400> 8460

Ala Gln Pro Ile Thr Asn Gly Ser Phe Ala Gln
1 5 10

<210> 8461
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<400> 8461

Ala Gln Val Gln Arg Thr Pro Leu Thr Ala Gln
1 5 10

<210> 8462
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<400> 8462

Ala Gln Thr Pro Tyr Ala Gly Arg Ala Ala Gln
1 5 10

<210> 8463
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<400> 8463

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

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<400> 8464

Ala Gln Gly Gln Met Ala Thr Gly Leu Ala Gln
1 5 10

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<400> 8465

Ala Gln Ser Asn Pro Ala Thr Thr Thr Ala Gln
1 5 10

<210> 8466
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<400> 8466

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

<210> 8467
<211> 11
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<400> 8467

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

<210> 8468
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<400> 8468

Ala Gln His Leu Ser Thr Pro Asp Leu Ala Gln
1 5 10

<210> 8469
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<400> 8469

Ala Gln Met Pro His Ala Pro Thr Ser Ala Gln
1 5 10

<210> 8470
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<400> 8470

Ala Gln Val Ala Gly Met Leu Thr His Ala Gln
1   5   10

<210> 8471
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<400> 8471

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

<210> 8472
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<400> 8472

Ala Gln Thr Gln Ser Met Thr Ser Arg Ala Gln
1   5   10

<210> 8473
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<400> 8473

Ala Gln Pro Ile Ser Thr Met Ser Leu Ala Gln
1   5   10

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<400> 8474

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

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<400> 8475

Ala Gln His Leu Pro Lys Tyr Glu His Ala Gln
1 5 10

<210> 8476
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<220>
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<400> 8476

Ala Gln Gly Val Gln Ala Val Val Gly Ala Gln
1 5 10

<210> 8477
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<400> 8477

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

<210> 8478
<211> 11
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<400> 8478

Ala Gln Ala Ser Pro Leu Val Met Ser Ala Gln
1   5   10

<210> 8479
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<400> 8479

Ala Gln Ser Asn Ala Gly Met Ser Lys Ala Gln
1   5   10

<210> 8480
<211> 11
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<220>
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<400> 8480

Ala Gln Arg Ser Val Ser Ala Val Pro Ala Gln
1   5   10

<210> 8481
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<220>
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<400> 8481

Ala Gln Pro Ser Tyr His Lys Ser Pro Ala Gln
1 5 10

<210> 8482
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<400> 8482

Ala Gln His Gln Phe Thr Ser Ser Ala Ala Gln
1 5 10

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<400> 8483

Ala Gln Asn Gln Ser Pro Ile Gly Ala Ala Gln
1 5 10

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<400> 8484

Ala Gln Gly Ala Ala Gly Met Ser Arg Ala Gln
1 5 10

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<400> 8485

Ala Gln Thr Val Lys Thr Tyr Ser Ala Ala Gln
1   5   10

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<400> 8486

Ala Gln Leu Ser Met Thr Ser Gln Met Ala Gln
1   5   10

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<400> 8487

Ala Gln Gly Leu Ser Pro Thr Phe Gly Ala Gln
1   5   10

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<400> 8488

Ala Gln Met Asp Thr Val Met Lys Gly Ala Gln
1   5   10

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<400> 8489

Ala Gln Arg Asp Lys Ile Ser Thr Tyr Ala Gln
1   5   10

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<400> 8490

Ala Gln Asp Ser Asn Ser Tyr Val Arg Ala Gln
1   5   10

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<400> 8491

Ala Gln Ser Leu Lys Ser Ser Pro Phe Ala Gln
1   5   10

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<400> 8492

Ala Gln Leu Asp Arg Thr Ala Lys Pro Ala Gln
1   5   10

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<400> 8493

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

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<400> 8494

Ala Gln Tyr Leu Asn Gln Ile Arg Ser Ala Gln
1   5   10

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<400> 8495

Ala Gln Gln Asn Arg Ser Val Val Glu Ala Gln
1   5   10

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<400> 8496

Ala Gln Gln Glu Ser Met Val Lys Tyr Ala Gln

1 5 10

<210> 8497
<211> 11
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<400> 8497

Ala Gln Lys Leu Ser Gln Glu Ser Asn Ala Gln
1 5 10

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<400> 8498

Ala Gln Arg Gly Thr Met Glu His Asp Ala Gln
1 5 10

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<400> 8499

Ala Gln Gln Ser Gly Pro Gly Ile Val Ala Gln
1 5 10

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<400> 8500

Ala Gln Leu Asn Gln Gly Asp Leu Leu Ala Gln
1 5 10

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<400> 8501

Ala Gln Ala Lys Thr Ile Gly Ser Thr Ala Gln
1 5 10

<210> 8502
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<400> 8502

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

<210> 8503
<211> 11
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<400> 8503

Ala Gln Leu Ser His Ser Thr Ser Phe Ala Gln
1 5 10

<210> 8504
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<400> 8504

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

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<400> 8505

Ala Gln Asp His Ser Asn Ala Tyr Arg Ala Gln
1   5   10

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<400> 8506

Ala Gln Val Pro Thr Asp Arg Pro Arg Ala Gln
1   5   10

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<400> 8507

Ala Gln Ser Met Gln Leu Ile Asn Glu Ala Gln
1   5   10

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<400> 8508

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

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<400> 8509

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

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<400> 8510

Ala Gln Leu Ile Pro Val Thr Ser Val Ala Gln
1 5 10

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<400> 8511

Ala Gln Gly Asn Met Asn Ser Arg Thr Ala Gln
1 5 10

<210> 8512
<211> 11
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<400> 8512

Ala Gln Ser His Asn Asp Arg Ser Leu Ala Gln
1 5 10

<210> 8513
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<400> 8513

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

<210> 8514
<211> 11
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<400> 8514

Ala Gln Met Gly Lys Asp Tyr Thr His Ala Gln
1 5 10

<210> 8515
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<400> 8515

Ala Gln Ser His Ala Ser Thr Pro Ile Ala Gln
1   5   10

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<400> 8516

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

<210> 8517
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<400> 8517

Ala Gln Arg Thr Leu Ser Asp Ser Val Ala Gln
1   5   10

<210> 8518
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<400> 8518

Ala Gln Leu Thr Thr Ala Lys Thr Phe Ala Gln
1   5   10

<210> 8519
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<400> 8519

Ala Gln Arg Ile Val Gly Ser Thr Ser Ala Gln
1 5 10

<210> 8520
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<400> 8520

Ala Gln Thr Lys Thr Leu Ala Leu His Ala Gln
1 5 10

<210> 8521
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<400> 8521

Ala Gln Trp Glu Val Pro Ala Arg Asn Ala Gln
1 5 10

<210> 8522
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<400> 8522

Ala Gln Ile Ser Asn Pro Ala Ile Ala Ala Gln
1 5 10

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<400> 8523

Ala Gln Leu Gly Ala Ser Gln Thr Ser Ala Gln
1   5   10

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<400> 8524

Ala Gln Leu Ser Thr His Asn Ser Val Ala Gln
1   5   10

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<400> 8525

Ala Gln Arg His Thr Asp Ile Asp Thr Ala Gln
1   5   10

<210> 8526
<211> 11
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<400> 8526

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

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<400> 8527

Ala Gln Ala Asn Leu Arg Asp Gly Val Ala Gln
1 5 10

<210> 8528
<211> 11
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<400> 8528

Ala Gln Val Gln Ser Pro Ser Ile Thr Ala Gln
1 5 10

<210> 8529
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<400> 8529

Ala Gln Phe Thr Ser Gly Ser His Leu Ala Gln
1 5 10

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<400> 8530

Ala Gln Pro Leu Gln Gln Ser Gly His Ala Gln
1 5 10

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<400> 8531

Ala Gln Ala Arg Val Ala Thr Thr Leu Ala Gln
1 5 10

<210> 8532
<211> 11
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<400> 8532

Ala Gln Pro Gly Arg Gln Asn Asp Ala Ala Gln
1 5 10

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<211> 11
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<400> 8533

Ala Gln Lys Tyr Ser Ser Thr Ala Ile Ala Gln
1 5 10

<210> 8534
<211> 11
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<400> 8534

Ala Gln His Ser Thr His Tyr Ile Ala Ala Gln
1 5 10

<210> 8535
<211> 11
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<400> 8535

Ala Gln Gln Pro Leu Asn Ala Leu Pro Ala Gln
1 5 10

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<211> 11
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<400> 8536

Ala Gln Lys Thr Gln Glu Thr Gly Asn Ala Gln
1 5 10

<210> 8537
<211> 11
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<400> 8537

Ala Gln Ser Glu Leu Ser Arg His Ala Ala Gln
1 5 10

<210> 8538
<211> 11
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<400> 8538

Ala Gln Gly Pro Lys Thr Ile Ser Thr Ala Gln
1   5   10

<210> 8539
<211> 11
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<400> 8539

Ala Gln Ser His Ser Ile Val Asn Pro Ala Gln
1   5   10

<210> 8540
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<400> 8540

Ala Gln His Ser Asn Thr Val Ser Ser Ala Gln
1   5   10

<210> 8541
<211> 11
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<400> 8541

Ala Gln Val Ala Gly Leu Thr Val Gln Ala Gln
1   5   10

<210> 8542
<211> 11
<212> PRT

<213> Artificial Sequence

<220>
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<400> 8542

Ala Gln Ala Asn Pro Gly Leu Ala Asn Ala Gln
1 5 10

<210> 8543
<211> 11
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<220>
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<400> 8543

Ala Gln Ala Ser Val Gln Met Thr Leu Ala Gln
1 5 10

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<400> 8544

Ala Gln Leu Val Thr Ala Gln Gly Pro Ala Gln
1 5 10

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<400> 8545

Ala Gln Thr Thr Arg Tyr Thr Ser Pro Ala Gln
1 5 10

<210> 8546
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<400> 8546

Ala Gln Met Asp Thr Asp Lys Pro Arg Ala Gln
1   5   10

<210> 8547
<211> 11
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<400> 8547

Ala Gln Gly Thr Ser Val Gln Asp Arg Ala Gln
1   5   10

<210> 8548
<211> 11
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<400> 8548

Ala Gln Arg Ala Ser Pro Gln Gln Tyr Ala Gln
1   5   10

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<400> 8549

Ala Gln Val Ser Ser Glu His Arg Ile Ala Gln

1 5 10

<210> 8550
<211> 11
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<400> 8550

Ala Gln Ser Asn Met Lys Ile Gln Pro Ala Gln
1 5 10

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<400> 8551

Ala Gln Asn Leu Arg Ile Glu Pro Met Ala Gln
1 5 10

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<400> 8552

Ala Gln Pro Thr Glu Ser Leu Arg Val Ala Gln
1 5 10

<210> 8553
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<400> 8553

Ala Gln Thr Asn Arg Gly Leu Ala Leu Ala Gln
1 5 10

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<400> 8554

Ala Gln His Glu Lys Thr Ala Tyr Ile Ala Gln
1 5 10

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<400> 8555

Ala Gln Asn Val Ile Ser Lys Asn Leu Ala Gln
1 5 10

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<400> 8556

Ala Gln Gly Thr Ala Gly Phe Ser Ser Ala Gln
1 5 10

<210> 8557
<211> 11
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<400> 8557

Ala Gln Ile Ala Gln Met Gly Val Lys Ala Gln
1   5   10

<210> 8558
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<400> 8558

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

<210> 8559
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<220>
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<400> 8559

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

<210> 8560
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<400> 8560

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

<210> 8561
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<400> 8561

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

<210> 8562
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<400> 8562

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

<210> 8563
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<400> 8563

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

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<220>
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<400> 8564

Ala Gln Asn Pro Glu Leu Pro Arg Gln Ala Gln
1   5   10

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<400> 8565

Ala Gln Thr Ser Ser Ser Phe Lys Glu Ala Gln
1 5 10

<210> 8566
<211> 11
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<220>
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<400> 8566

Ala Gln Asn Arg Glu Tyr Met Thr His Ala Gln
1 5 10

<210> 8567
<211> 11
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<220>
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<400> 8567

Ala Gln Thr Pro Gly Val Ala His Pro Ala Gln
1 5 10

<210> 8568
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<220>
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<400> 8568

Ala Gln Thr Gln Ser Ser Glu Gly Pro Ala Gln
1   5   10

<210> 8569
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<220>
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<400> 8569

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

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<211> 11
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<400> 8570

Ala Gln Ser Leu Thr Ser Leu Asn Ser Ala Gln
1   5   10

<210> 8571
<211> 11
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<400> 8571

Ala Gln Thr Val Leu His Thr Arg Gln Ala Gln
1   5   10

<210> 8572
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<220>
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<400> 8572

Ala Gln Leu Ser Lys Ser Gly Ala Asp Ala Gln
1 5 10

<210> 8573
<211> 11
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<400> 8573

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

<210> 8574
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<220>
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<400> 8574

Ala Gln Phe Val Thr Ser Ser Ser Gly Ala Gln
1 5 10

<210> 8575
<211> 11
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<213> Artificial Sequence

<220>
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<400> 8575

Ala Gln Gly Ala Asn Asn His Thr Arg Ala Gln
1 5 10

<210> 8576
<211> 11
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<213> Artificial Sequence

<220>
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<400> 8576

Ala Gln His Ala Ser Asp Val Asn Asn Ala Gln
1   5   10

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<400> 8577

Ala Gln Gly His His Thr Ser Asp Pro Ala Gln
1   5   10

<210> 8578
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<400> 8578

Ala Gln Asp Lys Asn Pro Gly Val His Ala Gln
1   5   10

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<400> 8579

Ala Gln Ser Arg Asn Ser His Ile Glu Ala Gln
1   5   10

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<400> 8580

Ala Gln Gln Ala Ser Ser Asp His Val Ala Gln
1   5   10

<210> 8581
<211> 11
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<400> 8581

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

<210> 8582
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<400> 8582

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

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<400> 8583

Ala Gln Gly His Val Asn Asn Ala Val Ala Gln
1   5   10

<210> 8584
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<400> 8584

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

<210> 8585
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<400> 8585

Ala Gln Ser Lys Glu Arg Asn Gly Gln Ala Gln
1 5 10

<210> 8586
<211> 11
<212> PRT
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<220>
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<400> 8586

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

<210> 8587
<211> 11
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<400> 8587

Ala Gln Thr Met Ser Thr Thr Tyr Glu Ala Gln
1 5 10

<210> 8588
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<400> 8588

Ala Gln Gly Ala Asp Asn Arg Ile Ser Ala Gln
1 5 10

<210> 8589
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<400> 8589

Ala Gln Thr Gln Asn Asn Gly Asp Val Ala Gln
1 5 10

<210> 8590
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<400> 8590

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

<210> 8591
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<400> 8591

Ala Gln Thr Ala Leu Arg Asp Val Gly Ala Gln
1 5 10

<210> 8592
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<400> 8592

Ala Gln Arg Thr Met Gly Thr Thr Met Ala Gln
1 5 10

<210> 8593
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<400> 8593

Ala Gln Thr Arg Gly Thr Thr Val Glu Ala Gln
1 5 10

<210> 8594
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<220>
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<400> 8594

Ala Gln Thr Val Ser Arg Val Gln Val Ala Gln
1 5 10

<210> 8595
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<213> Artificial Sequence

<220>
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<400> 8595

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

<210> 8596
<211> 11
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<220>
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<400> 8596

Ala Gln Leu Met Thr Lys Gly Leu Val Ala Gln
1 5 10

<210> 8597
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<400> 8597

Ala Gln Pro Met Arg Met Gln Thr Ala Ala Gln
1 5 10

<210> 8598
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<400> 8598

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

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<400> 8599

Ala Gln Ser Asn Asn Gly Asn Gly His Ala Gln
1   5   10

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<400> 8600

Ala Gln Arg Gly Pro Asp Leu Leu Asn Ala Gln
1   5   10

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<400> 8601

Ala Gln Gly Phe Asn Ser Met Lys Pro Ala Gln
1   5   10

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<400> 8602

Ala Gln Leu Asn Ser Asn Pro Met Asn Ala Gln

1 5 10

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<400> 8603

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

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<400> 8604

Ala Gln Ser Arg Met Glu Gly Thr Val Ala Gln
1 5 10

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<400> 8605

Ala Gln Ser Glu Gln Tyr Val Arg Val Ala Gln
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<400> 8606

Ala Gln Ser Asn Leu Ala Asn Gln Pro Ala Gln
1 5 10

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<400> 8607

Ala Gln Val Ser Met Gln Arg Pro Thr Ala Gln
1 5 10

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<400> 8608

Ala Gln Phe His Gly Gln Gly Met Ser Ala Gln
1 5 10

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<400> 8609

Ala Gln Thr Gly Ala Ile Asn Ala Pro Ala Gln
1 5 10

<210> 8610
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<400> 8610

Ala Gln Thr Leu Phe Lys Asn Gly Pro Ala Gln
1   5   10

<210> 8611
<211> 11
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<400> 8611

Ala Gln Val Val Pro Ile Ser Thr Asn Ala Gln
1   5   10

<210> 8612
<211> 11
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<400> 8612

Ala Gln Ala Lys Gly Thr Ala Leu Val Ala Gln
1   5   10

<210> 8613
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<400> 8613

Ala Gln Arg Asp Thr Val Gln Val Tyr Ala Gln
1   5   10

<210> 8614
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<400> 8614

Ala Gln Leu Gly Thr Lys Ala Thr His Ala Gln
1   5   10

<210> 8615
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<400> 8615

Ala Gln Asp Asn Val Arg Val Thr Ala Ala Gln
1   5   10

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<400> 8616

Ala Gln Thr Arg Pro Gly Ser His Thr Ala Gln
1   5   10

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<400> 8617

Ala Gln Ala Gln Leu Ala Pro Arg Ala Ala Gln
1   5   10

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<400> 8618

Ala Gln Ser Thr Met Arg Thr Ser Leu Ala Gln
1 5 10

<210> 8619
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<400> 8619

Ala Gln Met Asn Gln Thr Ser Ala Lys Ala Gln
1 5 10

<210> 8620
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<400> 8620

Ala Gln Ser Arg Ser Ser Pro Thr Ile Ala Gln
1 5 10

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<400> 8621

Ala Gln Ser Ala Leu Asn Gln Tyr Pro Ala Gln
1   5   10

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<400> 8622

Ala Gln Ile Ser Thr Thr Thr Arg Asn Ala Gln
1   5   10

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<400> 8623

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

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<400> 8624

Ala Gln Asn Phe Asn Lys Gln Gly Leu Ala Gln
1   5   10

<210> 8625
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<400> 8625

Ala Gln Pro Ser Asn Thr Ser Ser Val Ala Gln
1 5 10

<210> 8626
<211> 11
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<400> 8626

Ala Gln Thr Val Ser Thr Asn Ala Arg Ala Gln
1 5 10

<210> 8627
<211> 11
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<400> 8627

Ala Gln Asn Met Ser Gln Thr Val Ala Ala Gln
1 5 10

<210> 8628
<211> 11
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<400> 8628

Ala Gln Ile Gly Lys Ser Ser Thr Pro Ala Gln
1 5 10

<210> 8629
<211> 11
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<400> 8629

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

<210> 8630
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<400> 8630

Ala Gln Pro Tyr Thr Pro Leu Thr Gly Ala Gln
1   5   10

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<400> 8631

Ala Gln Ala Glu Tyr Asn Thr Gly Val Ala Gln
1   5   10

<210> 8632
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<400> 8632

Ala Gln Gly Arg Asn Ala Glu Thr Arg Ala Gln
1   5   10

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<211> 11
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<400> 8633

Ala Gln Thr Phe Asn His Thr Thr Asp Ala Gln
1   5   10

<210> 8634
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<400> 8634

Ala Gln Thr His Leu Ser Thr Leu Gly Ala Gln
1   5   10

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<213> Artificial Sequence

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<400> 8635

Ala Gln Leu Lys Gly Ile Ser Gln His Ala Gln
1   5   10

<210> 8636
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<400> 8636

Ala Gln Tyr Ser Ser Gly Met Thr Thr Ala Gln
1   5   10

<210> 8637
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<400> 8637

Ala Gln Thr Ala Ile Thr Met Thr Ser Ala Gln
1   5   10

<210> 8638
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<400> 8638

Ala Gln Arg Gly Asn Glu Leu Asn Thr Ala Gln
1   5   10

<210> 8639
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<400> 8639

Ala Gln Val Val Ser Ser Gln Met Ala Ala Gln
1   5   10

<210> 8640
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<400> 8640

Ala Gln His Gln His Glu Asn Met Val Ala Gln
1 5 10

<210> 8641
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<400> 8641

Ala Gln Ser Phe Gly Gly Val Pro Lys Ala Gln
1 5 10

<210> 8642
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<400> 8642

Ala Gln Leu Met Arg Asp Ser Lys Ser Ala Gln
1 5 10

<210> 8643
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<400> 8643

Ala Gln Met Arg Thr Asn Leu Ser Met Ala Gln
1 5 10

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<400> 8644

Ala Gln Pro Asn Asn Pro Val Val Pro Ala Gln
1   5   10

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<400> 8645

Ala Gln Arg Val Ser Gln Ser Met Gly Ala Gln
1   5   10

<210> 8646
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<400> 8646

Ala Gln Ala Glu Gly Pro Gln Lys Thr Ala Gln
1   5   10

<210> 8647
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<400> 8647

Ala Gln Leu Asn Ser Val Val His Thr Ala Gln
1   5   10

<210> 8648
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<400> 8648

Ala Gln Leu Leu Thr Leu Asn Ser Ala Ala Gln
1 5 10

<210> 8649
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<400> 8649

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

<210> 8650
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<400> 8650

Ala Gln Arg Val Ala Asn Pro Ala Thr Ala Gln
1 5 10

<210> 8651
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<400> 8651

Ala Gln Leu Pro Asp Pro Arg Leu Gln Ala Gln
1 5 10

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<400> 8652

Ala Gln Lys Met Asp Val Gly Glu Ala Ala Gln
1   5   10

<210> 8653
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<400> 8653

Ala Gln Gly Pro Ser Pro Met Val Met Ala Gln
1   5   10

<210> 8654
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<400> 8654

Ala Gln Gly Thr Asn Lys Ala Thr Ala Ala Gln
1   5   10

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<400> 8655

Ala Gln Leu Ser Ala His Gly Thr Thr Ala Gln

1 5 10

<210> 8656
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<400> 8656

Ala Gln Thr Ser Arg Tyr Asn Ser Ala Ala Gln
1 5 10

<210> 8657
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<400> 8657

Ala Gln Gly Pro Asn Ser Ser Phe Lys Ala Gln
1 5 10

<210> 8658
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<400> 8658

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

<210> 8659
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<400> 8659

Ala Gln Phe Gln Gly Glu Lys Thr Trp Ala Gln
1 5 10

<210> 8660
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<400> 8660

Ala Gln Thr Ser Ser Ala Arg Thr Ile Ala Gln
1 5 10

<210> 8661
<211> 11
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<400> 8661

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

<210> 8662
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<400> 8662

Ala Gln Leu Asn Leu Gly Thr Pro Lys Ala Gln
1 5 10

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<400> 8663

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

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<400> 8664

Ala Gln Met Arg Gln Ala Asn His Pro Ala Gln
1   5   10

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<400> 8665

Ala Gln Glu Gln Gln Arg Asp Val Leu Ala Gln
1   5   10

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<400> 8666

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

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<400> 8667

Ala Gln Asn Ala Arg Val Gln Glu Thr Ala Gln
1   5   10

<210> 8668
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<400> 8668

Ala Gln Thr Thr Val Ala Thr Gln Ser Ala Gln
1   5   10

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<220>
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<400> 8669

Ala Gln Thr Glu Val Ser His Arg Pro Ala Gln
1   5   10

<210> 8670
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<400> 8670

Ala Gln Ser Ser Thr Val Lys Asn Val Ala Gln
1   5   10

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<400> 8671

Ala Gln Ile Asp Ser His Leu Asn Arg Ala Gln
1 5 10

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<400> 8672

Ala Gln Gly Ser Thr Gln Leu Ser Leu Ala Gln
1 5 10

<210> 8673
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<400> 8673

Ala Gln Asp Gly Ser Pro Ala Thr Lys Ala Gln
1 5 10

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<400> 8674

Ala Gln Gln Thr Gly Asn Ser Gln Ala Ala Gln
1 5 10

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<400> 8675

Ala Gln Arg Gln Asp Val Asn Val Ser Ala Gln
1 5 10

<210> 8676
<211> 11
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<220>
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<400> 8676

Ala Gln Leu Asp Tyr Gly Val Lys Ser Ala Gln
1 5 10

<210> 8677
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<220>
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<400> 8677

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

<210> 8678
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<220>
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<400> 8678

Ala Gln Trp Ser Asn Met Thr Ala Ala Ala Gln
1 5 10

<210> 8679
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<220>
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<400> 8679

Ala Gln Thr Asn Thr Thr Arg Ile Ser Ala Gln
1 5 10

<210> 8680
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<220>
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<400> 8680

Ala Gln Pro Tyr Ala Glu Arg Gln Ala Ala Gln
1 5 10

<210> 8681
<211> 11
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<400> 8681

Ala Gln Thr Ser Ser Ala Thr Val Leu Ala Gln
1 5 10

<210> 8682
<211> 11
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<220>
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<400> 8682

Ala Gln Ala Gln Thr Asp Phe Arg Gln Ala Gln
1   5   10

<210> 8683
<211> 11
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<400> 8683

Ala Gln Asn Ser Gly Asn Glu His Ser Ala Gln
1   5   10

<210> 8684
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<400> 8684

Ala Gln Lys Pro Leu Ile Asn Ala Thr Ala Gln
1   5   10

<210> 8685
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<400> 8685

Ala Gln Met Gly Ser Ser Ser Ala Phe Ala Gln
1   5   10

<210> 8686

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<400> 8686

Ala Gln Ile Gly Asn Lys Thr Ser Leu Ala Gln
1 5 10

<210> 8687
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<400> 8687

Ala Gln Ala Ala Asn Thr Ala Pro Lys Ala Gln
1 5 10

<210> 8688
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<400> 8688

Ala Gln Leu Val Asp Gln Arg Ala Thr Ala Gln
1 5 10

<210> 8689
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<400> 8689

Ala Gln Gln Val Lys Leu Gly Ser Thr Ala Gln
1 5 10

<210> 8690
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<400> 8690

Ala Gln Leu Thr Ser Asn Thr His Val Ala Gln
1   5   10

<210> 8691
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<400> 8691

Ala Gln Val Tyr Ser Ala Ile Asn Lys Ala Gln
1   5   10

<210> 8692
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<400> 8692

Ala Gln Arg Ala Asn Gly Ser Asp Leu Ala Gln
1   5   10

<210> 8693
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<400> 8693

Ala Gln Asn Leu Lys Ser Gln Thr Glu Ala Gln
1   5   10

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<400> 8694

Ala Gln Ser Tyr Gly Asn Glu Ile Arg Ala Gln
1   5   10

<210> 8695
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<220>
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<400> 8695

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

<210> 8696
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<400> 8696

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

<210> 8697
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<400> 8697

Ala Gln Arg Ser Met Pro Asp Gly Ser Ala Gln
1   5   10

<210> 8698
<211> 11
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<400> 8698

Ala Gln Thr Ala His Thr Gly Pro Leu Ala Gln
1   5   10

<210> 8699
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<400> 8699

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

<210> 8700
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<400> 8700

Ala Gln Leu Gln Ala Ile Ala His Ser Ala Gln
1   5   10

<210> 8701
<211> 11
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<213> Artificial Sequence

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<400> 8701

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

<210> 8702
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<400> 8702

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

<210> 8703
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<400> 8703

Ala Gln Thr Leu His Leu Ala Lys Glu Ala Gln
1 5 10

<210> 8704
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<400> 8704

Ala Gln Asn Ile Ser Ser Ser Gly Lys Ala Gln
1 5 10

<210> 8705
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<400> 8705

Ala Gln Gly Arg His Met Val Met Glu Ala Gln
1   5   10

<210> 8706
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<400> 8706

Ala Gln Gly Glu Arg Phe Gly Gly Pro Ala Gln
1   5   10

<210> 8707
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<400> 8707

Ala Gln Tyr Ser Gly Ser Ser Thr Lys Ala Gln
1   5   10

<210> 8708
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<400> 8708

Ala Gln Lys Glu Ser Val Ser Ala Asn Ala Gln

1 5 10

<210> 8709
<211> 11
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<400> 8709

Ala Gln Ile Thr Ser Asp Gly Lys Pro Ala Gln
1 5 10

<210> 8710
<211> 11
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<220>
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<400> 8710

Ala Gln Gly His Asp Ala Arg Val Val Ala Gln
1 5 10

<210> 8711
<211> 11
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<400> 8711

Ala Gln Thr Ser Ser Asn Gly Val Arg Ala Gln
1 5 10

<210> 8712
<211> 11
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<400> 8712

Ala Gln Asn His Gln Asn Arg Ser Leu Ala Gln
1 5 10

<210> 8713
<211> 11
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<400> 8713

Ala Gln Arg Val Pro Glu Gln Asn Val Ala Gln
1 5 10

<210> 8714
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Ala Gln Ser Ala Gln Leu Arg Ser Ser Ala Gln
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<400> 8715

Ala Gln His Ala Lys Ser Glu Thr Tyr Ala Gln
1 5 10

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<400> 8716

Ala Gln Leu Leu Thr Gln Val Glu Thr Ala Gln
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<400> 8717

Ala Gln Thr Lys Thr Ala Asp Thr Tyr Ala Gln
1   5   10

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<400> 8718

Ala Gln Val Met Pro Ala Thr Leu Ser Ala Gln
1   5   10

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<400> 8719

Ala Gln Tyr Gln Ala Asn Asn Leu Ile Ala Gln
1   5   10

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<400> 8720

Ala Gln Val Arg Val Pro Asp Ser Ser Ala Gln
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<400> 8721

Ala Gln His Gln Thr Gly Ser Gly Phe Ala Gln
1   5   10

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<400> 8722

Ala Gln Ser Ala Thr Leu Ser Gly Tyr Ala Gln
1   5   10

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<400> 8723

Ala Gln Asn Gly Ser Ala Thr Tyr Ser Ala Gln
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<400> 8724

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

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<400> 8725

Ala Gln Arg Pro Ala Asp Val Ser Gln Ala Gln
1 5 10

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<400> 8726

Ala Gln Ser His Leu Ser Ser Thr Gly Ala Gln
1 5 10

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<400> 8727

Ala Gln Ala Asn Gln Ser Tyr Asp Arg Ala Gln
1 5 10

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<400> 8728

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

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<400> 8729

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

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<400> 8730

Ala Gln Leu Val Thr Ile His Ser Ala Ala Gln
1 5 10

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<400> 8731

Ala Gln Pro Gln His Glu Thr Thr Leu Ala Gln
1 5 10

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<400> 8732

Ala Gln Pro Thr Lys Ser Ala Gln Tyr Ala Gln
1 5 10

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<400> 8733

Ala Gln Lys Lys Asp Pro Val Leu Gly Ala Gln
1 5 10

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<400> 8734

Ala Gln Phe Arg Val Gly Pro Ser Ala Ala Gln
1 5 10

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<400> 8735

Ala Gln Thr Ser Ser Gly His Ala Val Ala Gln
1   5   10

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<400> 8736

Ala Gln Arg Val Gly Glu Ala Arg Met Ala Gln
1   5   10

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<400> 8737

Ala Gln Arg Val Thr Ser Pro Ser Lys Ala Gln
1   5   10

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<400> 8738

Ala Gln Asp Arg Met Pro Ser Thr Ile Ala Gln
1   5   10

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<400> 8739

Ala Gln Gln Gly Asp Thr Ser Lys His Ala Gln
1 5 10

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<400> 8740

Ala Gln Ser Thr Ser Ser Asn Arg Ala Ala Gln
1 5 10

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<400> 8741

Ala Gln Lys Val Pro Thr Gly Tyr Thr Ala Gln
1 5 10

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<400> 8742

Ala Gln Phe Lys Gly Gln Arg Asn Asp Ala Gln
1 5 10

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<400> 8743

Ala Gln Gly Asn His Leu Gly Asn Glu Ala Gln
1   5   10

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<400> 8744

Ala Gln Ala Ser Lys Ser Phe Glu Leu Ala Gln
1   5   10

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<400> 8745

Ala Gln Thr Val Arg Asp Thr Thr Arg Ala Gln
1   5   10

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<400> 8746

Ala Gln Lys Val Ser Pro Asn Thr Leu Ala Gln
1   5   10

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<400> 8747

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

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<400> 8748

Ala Gln Gln Val Ser Gly Val Arg Thr Ala Gln
1   5   10

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<400> 8749

Ala Gln Tyr Thr Gly Ile Ser Thr Ser Ala Gln
1   5   10

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<400> 8750

Ala Gln Gln Thr Ala Glu Pro His Lys Ala Gln
1 5 10

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<400> 8751

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

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<400> 8752

Ala Gln Ala Arg Asp Asp Ser Thr Asp Ala Gln
1 5 10

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<400> 8753

Ala Gln Asn Phe Lys His Ser Glu Val Ala Gln
1 5 10

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<400> 8754

Ala Gln Ile Thr Thr Pro Leu Gln Ala Ala Gln
1 5 10

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<400> 8755

Ala Gln Pro Met Ser Ser Arg Glu Arg Ala Gln
1 5 10

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<400> 8756

Ala Gln Val Glu Asn Gly Lys Gly Leu Ala Gln
1 5 10

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<400> 8757

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

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<400> 8758

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

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<400> 8759

Ala Gln Ala Ser Asn Glu Ala His Ala Ala Gln
1   5   10

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<400> 8760

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

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<400> 8761

Ala Gln Val Pro Ala Pro Gly Arg Tyr Ala Gln

1 5 10

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<400> 8762

Ala Gln Ala Ser Asp Arg Leu Ile Ala Ala Gln
1 5 10

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<400> 8763

Ala Gln Ile Ser Thr Trp Gln Thr Gln Ala Gln
1 5 10

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<400> 8764

Ala Gln Ile Thr Ser Gly Ala Thr Val Ala Gln
1 5 10

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<400> 8765

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

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<400> 8766

Ala Gln Pro Gln Gly Thr Phe Gly Ser Ala Gln
1 5 10

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<400> 8767

Ala Gln Ile Val Arg Pro Pro Asn Ser Ala Gln
1 5 10

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<400> 8768

Ala Gln Thr Ser His Leu Thr Ser Ala Ala Gln
1 5 10

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<400> 8769

Ala Gln Leu His Pro Glu Thr Met Arg Ala Gln
1   5   10

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<400> 8770

Ala Gln Val Leu His Asp Thr Arg Tyr Ala Gln
1   5   10

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<400> 8771

Ala Gln Val Ser Asn Pro Pro Arg Gly Ala Gln
1   5   10

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<400> 8772

Ala Gln Glu Pro Leu Met Thr Arg Pro Ala Gln
1   5   10

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<400> 8773

Ala Gln Asp Arg Val Ser Ser Ser His Ala Gln
1   5   10

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<400> 8774

Ala Gln Thr Lys Thr Gly His Ser Ser Ala Gln
1   5   10

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<400> 8775

Ala Gln Ser Ser Tyr Ser Pro Val Thr Ala Gln
1   5   10

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<400> 8776

Ala Gln Lys Pro Asn Leu Gln Asn Asn Ala Gln
1   5   10

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<400> 8777

Ala Gln Leu Lys Ser Pro Pro Gly Ile Ala Gln
1 5 10

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<400> 8778

Ala Gln Gly Met Gln Leu Gly Met Pro Ala Gln
1 5 10

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<400> 8779

Ala Gln His Gln Ala Asn Leu Thr Leu Ala Gln
1 5 10

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<400> 8780

Ala Gln Thr Gly His Pro Thr Thr Ala Ala Gln
1   5   10

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<400> 8781

Ala Gln Phe Ile Gly Ser His Leu Gly Ala Gln
1   5   10

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<400> 8782

Ala Gln Arg Asn Glu Ser Asn Gly Pro Ala Gln
1   5   10

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<400> 8783

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

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<400> 8784

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

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<400> 8785

Ala Gln Arg Pro Gly Met Leu Gly Thr Ala Gln
1 5 10

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<400> 8786

Ala Gln Leu Thr Gln Ile Gly Thr Ala Ala Gln
1 5 10

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<400> 8787

Ala Gln Asn Glu Asp Val Gln Arg Ala Ala Gln
1 5 10

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<400> 8788

Ala Gln His Leu Ala Asp Gln Ser Arg Ala Gln
1   5   10

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<400> 8789

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

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<400> 8790

Ala Gln Asn Asn His His Val Pro Pro Ala Gln
1   5   10

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<400> 8791

Ala Gln Asp Lys Ala Gly Thr Leu Ser Ala Gln
1   5   10

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<400> 8792

Ala Gln Arg Thr Lys Asn Glu Ser Met Ala Gln
1 5 10

<210> 8793
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<400> 8793

Ala Gln Phe Asn Val Val Arg Gly Asp Ala Gln
1 5 10

<210> 8794
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<400> 8794

Ala Gln Ile Val Arg Gly Met Asn Gln Ala Gln
1 5 10

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<400> 8795

Ala Gln Gln His Thr Pro Thr Leu Asn Ala Gln
1 5 10

<210> 8796
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<400> 8796

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

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<400> 8797

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

<210> 8798
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<400> 8798

Ala Gln Arg Ile Asn Ser Asp Ser Thr Ala Gln
1   5   10

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<400> 8799

Ala Gln Asn Pro His Asn His Pro Val Ala Gln
1 5 10

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<400> 8800

Ala Gln Ser His Lys Pro Ser Thr Val Ala Gln
1 5 10

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<400> 8801

Ala Gln Ser Ser Met Ser Thr Thr Tyr Ala Gln
1 5 10

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<400> 8802

Ala Gln Gly Ala Ala Ala Ser Asn Pro Ala Gln
1 5 10

<210> 8803
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<400> 8803

Ala Gln Met Asn Gln Arg Glu Gln Lys Ala Gln
1   5   10

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<400> 8804

Ala Gln Ser Tyr Pro Ser Asn Pro Arg Ala Gln
1   5   10

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<400> 8805

Ala Gln Leu Arg Asp Phe Val Thr Asp Ala Gln
1   5   10

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<400> 8806

Ala Gln Asn Asn Thr Val Met Arg Ser Ala Gln
1   5   10

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<400> 8807

Ala Gln Leu Ser Pro Arg Lys Tyr Ile Ala Gln
1 5 10

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<400> 8808

Ala Gln His Ile Arg Pro Pro Ser Pro Ala Gln
1 5 10

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<400> 8809

Ala Gln Pro Tyr Val Ser Thr Thr Ala Ala Gln
1 5 10

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<400> 8810

Ala Gln Val Asn His Gly Ser Pro Thr Ala Gln
1 5 10

<210> 8811
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<400> 8811

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

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<400> 8812

Ala Gln Ser Arg Glu Arg Thr Ser Asp Ala Gln
1   5   10

<210> 8813
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<400> 8813

Ala Gln Thr His Ser Val Thr Arg Ser Ala Gln
1   5   10

<210> 8814
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<400> 8814

Ala Gln Leu Val Ala Asn Lys Asn Ala Ala Gln

1 5 10

<210> 8815
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<400> 8815

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

<210> 8816
<211> 11
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<400> 8816

Ala Gln Tyr Arg Thr Ser Thr Leu Ala Ala Gln
1 5 10

<210> 8817
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<400> 8817

Ala Gln His Val Met Asn Lys Gln Ala Ala Gln
1 5 10

<210> 8818
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<400> 8818

Ala Gln Ala Thr Asn Asn Pro Ala Ser Ala Gln
1 5 10

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<400> 8819

Ala Gln Thr Ile Met Lys Ala Gln Thr Ala Gln
1 5 10

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<400> 8820

Ala Gln Gly Met Ser Thr Met Thr Pro Ala Gln
1 5 10

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<400> 8821

Ala Gln Gly Thr Pro Ile Tyr Lys Gln Ala Gln
1 5 10

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<400> 8822

Ala Gln Asn Gly Thr Leu Glu Lys Ala Ala Gln
1   5   10

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<400> 8823

Ala Gln Ser Asn Glu Arg Thr Ile Pro Ala Gln
1   5   10

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<400> 8824

Ala Gln Ile Pro Val Ser Ile Gln Ala Ala Gln
1   5   10

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<400> 8825

Ala Gln Asn Leu Gln Arg Glu Gly Pro Ala Gln
1   5   10

<210> 8826
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<400> 8826

Ala Gln Gly Glu Gly Gly Lys Ser Asn Ala Gln
1   5   10

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<400> 8827

Ala Gln Leu Gln Gly Asn Gly Arg Asn Ala Gln
1   5   10

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<400> 8828

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

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<400> 8829

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

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

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Ala Gln Ser Ile Leu Thr Arg Asp Ser Ala Gln
1   5   10

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

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Ala Gln Ser Phe Asn Gln Pro Ser Val Ala Gln
1 5 10

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<400> 8836

Ala Gln Leu Asn Gln Asn Gln Arg Val Ala Gln
1 5 10

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Ala Gln Arg Ile Asp Ser Gln Asp Thr Ala Gln
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<400> 8838

Ala Gln Thr Val Pro Gly Arg Pro Ser Ala Gln
1 5 10

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<400> 8839

Ala Gln Arg Glu Pro Asn Asn Thr Ser Ala Gln
1 5 10

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<400> 8840

Ala Gln Glu Arg Met Thr Met His Ala Ala Gln
1 5 10

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<400> 8841

Ala Gln Ile Ala Ile Gln Asn Asp Arg Ala Gln
1   5   10

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<400> 8842

Ala Gln Leu Gly Ala Gln Ser Ile Ser Ala Gln
1   5   10

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<400> 8843

Ala Gln Ala Gly Asp Lys Thr Tyr Val Ala Gln
1   5   10

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<400> 8844

Ala Gln Met Asn Arg Thr Ala Tyr Thr Ala Gln
1   5   10

<210> 8845

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<400> 8845

Ala Gln Ala Leu Pro Gly Gly Leu Met Ala Gln
1   5   10

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<400> 8846

Ala Gln Leu Lys Asn His Asp Thr Thr Ala Gln
1   5   10

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<400> 8847

Ala Gln Pro Leu Asn Tyr Ala Leu Glu Ala Gln
1   5   10

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<400> 8848

Ala Gln Ser Lys Gln Met His Asn Asp Ala Gln
1   5   10

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<400> 8849

Ala Gln Thr Ala His Thr Thr Pro Phe Ala Gln
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<400> 8850

Ala Gln Leu Lys Thr Gly Asp Ser Gln Ala Gln
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<400> 8851

Ala Gln Tyr Ser Thr Thr Ala Glu Tyr Ala Gln
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<400> 8852

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

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<400> 8853

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

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<400> 8854

Ala Gln Leu Arg Asn Leu Asp Leu Asn Ala Gln
1 5 10

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<400> 8855

Ala Gln Leu Gly Ser Thr Leu Thr Lys Ala Gln
1 5 10

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<400> 8856

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

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<400> 8857

Ala Gln Ser Arg Ser Leu Thr Glu Met Ala Gln
1   5   10

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Ala Gln Asn Gly Leu Ser Thr Thr Met Ala Gln
1   5   10

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<400> 8859

Ala Gln His Asp Lys Thr Tyr Ala Met Ala Gln
1   5   10

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<400> 8860

Ala Gln Val Pro Ser Asp Lys Met Arg Ala Gln
1 5 10

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<400> 8861

Ala Gln Gly Ala His Asn Leu Leu Thr Ala Gln
1 5 10

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<400> 8862

Ala Gln Ser Thr Ser Thr Met Val Met Ala Gln
1 5 10

<210> 8863
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<400> 8863

Ala Gln Asn Met Ala His Glu Ser Lys Ala Gln
1 5 10

<210> 8864
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<400> 8864

Ala Gln Tyr Leu Gly Val Gly Ala Thr Ala Gln
1   5   10

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<400> 8865

Ala Gln Ala Ser Glu Tyr Asn Gln His Ala Gln
1   5   10

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<400> 8866

Ala Gln Arg Ala Glu Gly Asp Lys Ile Ala Gln
1   5   10

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<400> 8867

Ala Gln Ser Ser Gly Ser Ser Phe His Ala Gln

1 5 10

<210> 8868
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<400> 8868

Ala Gln Trp Gly Lys Glu Tyr Thr Gly Ala Gln
1 5 10

<210> 8869
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<400> 8869

Ala Gln Pro Ala Ser Gly Ala Met Pro Ala Gln
1 5 10

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<400> 8870

Ala Gln Arg Gly Ala Val Val Val Ala Ala Gln
1 5 10

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<400> 8871

Ala Gln Val Met Met Gln Asn His Ala Ala Gln
1 5 10

<210> 8872
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<400> 8872

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

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<400> 8873

Ala Gln Gly His Ala Ala Val Ser Val Ala Gln
1 5 10

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<400> 8874

Ala Gln Asp Lys Thr Asp Ser Thr Pro Ala Gln
1 5 10

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<400> 8875

Ala Gln Val Pro Pro Thr Ser Phe Thr Ala Gln
1   5   10

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<400> 8876

Ala Gln Val Gly Pro Asn Ala Gln His Ala Gln
1   5   10

<210> 8877
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<400> 8877

Ala Gln His His Gly Arg Ala Asp Thr Ala Gln
1   5   10

<210> 8878
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<400> 8878

Ala Gln His Val Asn Met Gly Pro Ala Ala Gln
1   5   10

<210> 8879
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<212> PRT
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<400> 8879

Ala Gln His Ala Thr Lys Glu Thr Ser Ala Gln
1   5   10

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<400> 8880

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

<210> 8881
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<400> 8881

Ala Gln Ser Leu Gly Ser Tyr Pro Thr Ala Gln
1   5   10

<210> 8882
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<400> 8882

Ala Gln Gly Ser Lys Ala Tyr Val Gly Ala Gln
1   5   10

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<400> 8883

Ala Gln Gln Asp Arg Met Ser Val Asn Ala Gln
1   5   10

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<400> 8884

Ala Gln Trp Ser Asp Ser Leu Arg Asp Ala Gln
1   5   10

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<400> 8885

Ala Gln Thr Lys Val Pro Met Thr Gln Ala Gln
1   5   10

<210> 8886
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<400> 8886

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

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<400> 8887

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

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<400> 8888

Ala Gln Pro Thr Gln Thr Val Ser Ser Ala Gln
1   5   10

<210> 8889
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<400> 8889

Ala Gln Leu Asn Lys Leu Leu Gly Ala Ala Gln
1   5   10

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<400> 8890

Ala Gln His Ser Asn Gln Glu Pro Arg Ala Gln
1 5 10

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<400> 8891

Ala Gln Asn Gly Ala Ser Ile His Ser Ala Gln
1 5 10

<210> 8892
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<400> 8892

Ala Gln Leu Ser Gln Gln Arg Leu Gln Ala Gln
1 5 10

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<400> 8893

Ala Gln Leu Pro His Gly Thr Met Asn Ala Gln
1 5 10

<210> 8894
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<400> 8894

Ala Gln Ser Ser Pro Asp Ala Lys Tyr Ala Gln
1   5   10

<210> 8895
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<400> 8895

Ala Gln Phe His Thr Pro Ala Gly Asn Ala Gln
1   5   10

<210> 8896
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<400> 8896

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

<210> 8897
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<400> 8897

Ala Gln Leu Asp Lys Thr Ile Pro Gln Ala Gln
1   5   10

<210> 8898

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<400> 8898

Ala Gln Trp Gln Gly Asn Arg Gln Ala Ala Gln
1 5 10

<210> 8899
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<400> 8899

Ala Gln Gly Tyr Gly Thr Ile Thr Pro Ala Gln
1 5 10

<210> 8900
<211> 11
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<400> 8900

Ala Gln Met Arg Glu Gln Asn Lys Ala Ala Gln
1 5 10

<210> 8901
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<400> 8901

Ala Gln Asn Leu Ala Gly Leu Thr Gly Ala Gln
1 5 10

<210> 8902
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<400> 8902

Ala Gln Trp Phe Lys Ala Gly Ser Ala Ala Gln
1 5 10

<210> 8903
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<400> 8903

Ala Gln Ile Asn Val Ala Pro Tyr Lys Ala Gln
1 5 10

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<400> 8904

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

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<400> 8905

Ala Gln Met Ser Ala Ser Thr Asn Thr Ala Gln
1 5 10

<210> 8906
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<400> 8906

Ala Gln Gly Ser His Asn Ala Gln Gly Ala Gln
1 5 10

<210> 8907
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<400> 8907

Ala Gln Ile Ser Ala Val Pro Lys Asn Ala Gln
1 5 10

<210> 8908
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<400> 8908

Ala Gln Ala Gly Gly Gly Met Gln Asn Ala Gln
1 5 10

<210> 8909
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<400> 8909

Ala Gln Leu Leu Asn Thr Thr Ser Thr Ala Gln
1   5   10

<210> 8910
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<400> 8910

Ala Gln Thr Asn Thr Val Ser Ala Ser Ala Gln
1   5   10

<210> 8911
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<400> 8911

Ala Gln Gln Leu Ser Pro Ile Ala Met Ala Gln
1   5   10

<210> 8912
<211> 11
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<400> 8912

Ala Gln Ala Pro Arg Gly Val Asn Leu Ala Gln
1   5   10

<210> 8913
<211> 11
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<400> 8913

Ala Gln Leu Thr Arg Thr Ser Val Asp Ala Gln
1 5 10

<210> 8914
<211> 11
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<400> 8914

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

<210> 8915
<211> 11
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<400> 8915

Ala Gln Lys Asn Ala Pro Pro Leu Thr Ala Gln
1 5 10

<210> 8916
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<400> 8916

Ala Gln Val Arg Asn Ala Val His Ala Ala Gln
1 5 10

<210> 8917
<211> 11
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<400> 8917

Ala Gln Ile Arg His Met Asp Ala Pro Ala Gln
1   5   10

<210> 8918
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<400> 8918

Ala Gln Gly Ala Pro Leu Val Ala Thr Ala Gln
1   5   10

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<400> 8919

Ala Gln Ser Asp His Asn Ala Arg Gly Ala Gln
1   5   10

<210> 8920
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<400> 8920

Ala Gln Ile Ser Asp Thr Leu His Tyr Ala Gln

1 5 10

<210> 8921
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<400> 8921

Ala Gln Asn Asn Arg Gly Ser Ile Ser Ala Gln
1 5 10

<210> 8922
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<220>
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<400> 8922

Ala Gln Gln Arg Glu Arg Asp Gly Val Ala Gln
1 5 10

<210> 8923
<211> 11
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<220>
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<400> 8923

Ala Gln Ser Lys Gln Asp Val Arg Ala Ala Gln
1 5 10

<210> 8924
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<220>
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<400> 8924

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

<210> 8925
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<400> 8925

Ala Gln Gly Pro Ser Val Glu Ser Asn Ala Gln
1 5 10

<210> 8926
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<400> 8926

Ala Gln Leu Leu Ser Ser Ser Pro Ser Ala Gln
1 5 10

<210> 8927
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<400> 8927

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

<210> 8928
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<400> 8928

Ala Gln Asp Val Arg Asn Thr Ile Ala Ala Gln
1   5   10

<210> 8929
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<400> 8929

Ala Gln His Lys Leu Val Thr Lys Asp Ala Gln
1   5   10

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<400> 8930

Ala Gln Pro Tyr Val Ser Gly Val Pro Ala Gln
1   5   10

<210> 8931
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<400> 8931

Ala Gln Thr Thr Lys Ala Ser Phe Thr Ala Gln
1   5   10

<210> 8932
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<220>
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<400> 8932

Ala Gln Thr Pro His Gly Pro Asp Ala Ala Gln
1   5   10

<210> 8933
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<400> 8933

Ala Gln Asp Tyr Arg Gln Thr Asp His Ala Gln
1   5   10

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<400> 8934

Ala Gln His Ser Pro Lys Pro Asp His Ala Gln
1   5   10

<210> 8935
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<400> 8935

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

<210> 8936
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<400> 8936

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

<210> 8937
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<400> 8937

Ala Gln Ile Asn Ser Pro Ile Gly Asn Ala Gln
1 5 10

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<400> 8938

Ala Gln Gln Asn Gln Ile Met Ser Gly Ala Gln
1 5 10

<210> 8939
<211> 11
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<400> 8939

Ala Gln Val Tyr Gln Gly Asn Gln Asn Ala Gln
1   5   10

<210> 8940
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<400> 8940

Ala Gln Gly Ser Asn Ser Gln His Thr Ala Gln
1   5   10

<210> 8941
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<400> 8941

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

<210> 8942
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<400> 8942

Ala Gln His Arg Ser Ser Pro Ala Ala Ala Gln
1   5   10

<210> 8943
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<220>
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<400> 8943

Ala Gln Asn Glu Gly Asn Ser Met Lys Ala Gln
1 5 10

<210> 8944
<211> 11
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<220>
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<400> 8944

Ala Gln Arg Pro Asp Lys Gly Pro Met Ala Gln
1 5 10

<210> 8945
<211> 11
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<220>
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<400> 8945

Ala Gln Ala Ile Val Ser His Pro Leu Ala Gln
1 5 10

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<400> 8946

Ala Gln Thr Gln Gly Glu Arg Pro Val Ala Gln
1 5 10

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<400> 8947

Ala Gln Tyr Val Asn Ser Ala Pro Lys Ala Gln
1   5   10

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<400> 8948

Ala Gln Pro Ser Gly Thr Ser Ile Val Ala Gln
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<400> 8949

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

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<400> 8950

Ala Gln Ser Ala His Phe Asn His Ser Ala Gln
1   5   10

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Ala Gln Lys Val Asn Ser Ala His Leu Ala Gln
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<400> 8952

Ala Gln Gly Phe Gly Asn Met Gly Ala Ala Gln
1 5 10

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<400> 8953

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

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<400> 8955

Ala Gln His Asp Thr Leu Arg Thr Pro Ala Gln
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<400> 8956

Ala Gln Arg Phe Pro Gln Ala Pro Pro Ala Gln
1   5   10

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<400> 8957

Ala Gln Ser Ser Gly Asn Lys Ser Asp Ala Gln
1   5   10

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<400> 8958

Ala Gln Met Ser Lys Met Ala Asp Arg Ala Gln
1 5 10

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<400> 8959

Ala Gln Glu His Arg Glu Thr Ser Ile Ala Gln
1 5 10

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<400> 8960

Ala Gln Ser Thr Glu Tyr Pro Val Pro Ala Gln
1 5 10

<210> 8961
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<400> 8961

Ala Gln Asp Lys Ser Met Asn Pro Ser Ala Gln
1 5 10

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<400> 8962

Ala Gln Glu Tyr His Asn Asn Leu Lys Ala Gln
1   5   10

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<400> 8963

Ala Gln Ile Phe Thr Asn Thr Gly His Ala Gln
1   5   10

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<400> 8964

Ala Gln Lys Ser Asn Ser Pro Leu Ala Ala Gln
1   5   10

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<400> 8965

Ala Gln Tyr Ser Ser Gly Tyr Asn Ala Ala Gln
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<400> 8966

Ala Gln Gly Ser Lys Thr Gln Gly Asp Ala Gln
1 5 10

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<400> 8967

Ala Gln Ile Val Ser Gly Ser Ser Gln Ala Gln
1 5 10

<210> 8968
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<400> 8968

Ala Gln Ser Leu Ile Asn Ser Thr Tyr Ala Gln
1 5 10

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<400> 8969

Ala Gln Asn Met Lys Ile Gln His Val Ala Gln
1 5 10

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<400> 8970

Ala Gln Asp Ser Thr Lys Leu Gly His Ala Gln
1   5   10

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<400> 8971

Ala Gln Gln Ser His Gly Thr Ser Ser Ala Gln
1   5   10

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<400> 8972

Ala Gln Lys Asp Asn Asn Arg Ser Ala Ala Gln
1   5   10

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<400> 8973

Ala Gln Phe Gln Pro Ser Tyr Ala Ala Ala Gln

1 5 10

<210> 8974
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<400> 8974

Ala Gln Pro Thr Val Gln Met Lys Ala Ala Gln
1 5 10

<210> 8975
<211> 11
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<400> 8975

Ala Gln Ser Pro Thr Ser Ser Thr Phe Ala Gln
1 5 10

<210> 8976
<211> 11
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<400> 8976

Ala Gln Gly Arg Asp Ala Asn Val Pro Ala Gln
1 5 10

<210> 8977
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<400> 8977

Ala Gln Thr Leu Met Ser Thr Ser Pro Ala Gln
1 5 10

<210> 8978
<211> 11
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<400> 8978

Ala Gln Leu His Gly Ala Thr Thr Thr Ala Gln
1 5 10

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<400> 8979

Ala Gln Arg Thr Asn Glu Val Met Arg Ala Gln
1 5 10

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<400> 8980

Ala Gln Asp Asn Leu Arg Val Thr Ala Ala Gln
1 5 10

<210> 8981
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<400> 8981

Ala Gln Arg Gln Ala Gly Asp Gln Leu Ala Gln
1   5   10

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<400> 8982

Ala Gln Val Gly Gln His Leu Thr His Ala Gln
1   5   10

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<400> 8983

Ala Gln Leu Ser Ala Ala Ser Gly Ile Ala Gln
1   5   10

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<400> 8984

Ala Gln Ser Ser His Asn Gly Phe Ile Ala Gln
1   5   10

<210> 8985
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<400> 8985

Ala Gln Asn Ala Thr Arg Gln Tyr Ser Ala Gln
1   5   10

<210> 8986
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<400> 8986

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

<210> 8987
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<400> 8987

Ala Gln Asp Val Val Lys Pro His Gly Ala Gln
1   5   10

<210> 8988
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<213> Artificial Sequence

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<400> 8988

Ala Gln Gly Ile Gly Gly Ile Ser Ser Ala Gln
1   5   10

<210> 8989
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<400> 8989

Ala Gln Thr Asn Asn Ser Leu Arg Glu Ala Gln
1   5   10

<210> 8990
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<400> 8990

Ala Gln Thr Arg Thr Ala Ser Ala Leu Ala Gln
1   5   10

<210> 8991
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<400> 8991

Ala Gln Thr Thr Thr Ala Pro Ser Pro Ala Gln
1   5   10

<210> 8992
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<400> 8992

Ala Gln Asn Ala Ser Met Ser Ser Ile Ala Gln
1   5   10

<210> 8993
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<400> 8993

Ala Gln Thr Gln Pro His Arg Gly Leu Ala Gln
1   5   10

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<400> 8994

Ala Gln Arg Leu Asp His His Ser Ser Ala Gln
1   5   10

<210> 8995
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<400> 8995

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

<210> 8996
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<400> 8996

Ala Gln Ser Leu Arg Gly Asn Glu Ala Ala Gln
1 5 10

<210> 8997
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<400> 8997

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

<210> 8998
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<400> 8998

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

<210> 8999
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<400> 8999

Ala Gln Gln Lys Thr Glu Arg Thr Val Ala Gln
1 5 10

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<400> 9000

Ala Gln Asn His Thr Asn His Ser Ser Ala Gln
1   5   10

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<400> 9001

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

<210> 9002
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<400> 9002

Ala Gln Asp Leu Asp Lys Arg Gly Leu Ala Gln
1   5   10

<210> 9003
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<400> 9003

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

<210> 9004

<211> 11
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<400> 9004

Ala Gln Thr Lys Pro Asp Tyr Leu Val Ala Gln
1 5 10

<210> 9005
<211> 11
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<400> 9005

Ala Gln Lys Leu Gln Leu His Glu Val Ala Gln
1 5 10

<210> 9006
<211> 11
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<400> 9006

Ala Gln Thr Ser Val Thr Ile Ser Ser Ala Gln
1 5 10

<210> 9007
<211> 11
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<400> 9007

Ala Gln Asn Ser Ser Asn Arg Ala Glu Ala Gln
1 5 10

<210> 9008
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<400> 9008

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

<210> 9009
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<400> 9009

Ala Gln Thr Leu Gln Met Arg Glu His Ala Gln
1 5 10

<210> 9010
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<400> 9010

Ala Gln Gly Ser Pro Thr Ala Gln Thr Ala Gln
1 5 10

<210> 9011
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<400> 9011

Ala Gln Asn Lys Gly Gln Thr Leu Thr Ala Gln
1 5 10

<210> 9012
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<400> 9012

Ala Gln Ser Val Gly His Arg Asp Met Ala Gln
1 5 10

<210> 9013
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<400> 9013

Ala Gln Arg Asp Lys Ser Ser Met His Ala Gln
1 5 10

<210> 9014
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<400> 9014

Ala Gln Val Ser Val Ile Asn Asn Thr Ala Gln
1 5 10

<210> 9015
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<400> 9015

Ala Gln Leu Pro Asn Ser Ala Phe Ser Ala Gln
1   5   10

<210> 9016
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<400> 9016

Ala Gln Arg Thr Val Ser Thr Asp Asp Ala Gln
1   5   10

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<400> 9017

Ala Gln Leu Met Asp Arg Met Ala Ser Ala Gln
1   5   10

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<400> 9018

Ala Gln Pro Ser Gly Phe Asn Thr Leu Ala Gln
1   5   10

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<400> 9019

Ala Gln Lys Ser Ala Gln Pro Met Ser Ala Gln
1   5   10

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<400> 9020

Ala Gln Thr Gly Leu Ser Val Gln Lys Ala Gln
1   5   10

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<400> 9021

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

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<400> 9022

Ala Gln Ser Tyr Glu Ala Val Gly Ile Ala Gln
1   5   10

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<400> 9023

Ala Gln Thr Ala Lys Gly Val Leu Ser Ala Gln
1   5   10

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<400> 9024

Ala Gln Gly Ala Ser Thr His Asn Ala Ala Gln
1   5   10

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<400> 9025

Ala Gln Ile Ile Lys Glu Ile Pro Ala Ala Gln
1   5   10

<210> 9026
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<400> 9026

Ala Gln Asn His Val Ile Ser Asn Gly Ala Gln

1 5 10

<210> 9027
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<400> 9027

Ala Gln Tyr Thr Asn Met Ala Gly Val Ala Gln
1 5 10

<210> 9028
<211> 11
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<400> 9028

Ala Gln Phe Asn Arg Ile Gly Ala Gly Ala Gln
1 5 10

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<400> 9029

Ala Gln Trp Ser Thr Met Met Lys Ser Ala Gln
1 5 10

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<400> 9030

Ala Gln Thr Ala Pro Ala Asn His Val Ala Gln
1 5 10

<210> 9031
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<400> 9031

Ala Gln Met His Gly Gly Ser Glu Leu Ala Gln
1 5 10

<210> 9032
<211> 11
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<400> 9032

Ala Gln Met Ser Arg Met Gly Val Ala Ala Gln
1 5 10

<210> 9033
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<400> 9033

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

<210> 9034
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<400> 9034

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

<210> 9035
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<400> 9035

Ala Gln Asp Lys Arg His His Ala Glu Ala Gln
1   5   10

<210> 9036
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<400> 9036

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

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<400> 9037

Ala Gln Ser Val Thr Thr Ser His Val Ala Gln
1   5   10

<210> 9038
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<220>
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<400> 9038

Ala Gln Met Leu Thr Gly Gly Thr Asn Ala Gln
1   5   10

<210> 9039
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<400> 9039

Ala Gln Asp Asn Val Ala Asn Ala Gly Ala Gln
1   5   10

<210> 9040
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<400> 9040

Ala Gln Met Thr Thr Asn Ser Ile Ala Ala Gln
1   5   10

<210> 9041
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<400> 9041

Ala Gln Met Arg Thr Gln Ser Leu Ser Ala Gln
1   5   10

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<400> 9042

Ala Gln Tyr Gly Ser Phe Thr Gly Gln Ala Gln
1 5 10

<210> 9043
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<400> 9043

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

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<400> 9044

Ala Gln Met Thr Gln Lys Ala Pro Val Ala Gln
1 5 10

<210> 9045
<211> 11
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<400> 9045

Ala Gln Ser Ala Asn Ala Thr Lys Leu Ala Gln
1   5   10

<210> 9046
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<400> 9046

Ala Gln Phe Asn Gly Ser Leu Ala Met Ala Gln
1   5   10

<210> 9047
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<400> 9047

Ala Gln Ile Val Asn Ala Lys Leu Thr Ala Gln
1   5   10

<210> 9048
<211> 11
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<400> 9048

Ala Gln Met Phe Ser Gly Leu Gln Ala Ala Gln
1   5   10

<210> 9049
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<400> 9049

Ala Gln Val Asp Tyr Arg Val Asn Gly Ala Gln
1 5 10

<210> 9050
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<400> 9050

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

<210> 9051
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<400> 9051

Ala Gln Arg Asp Leu His Ser Lys Asp Ala Gln
1 5 10

<210> 9052
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<400> 9052

Ala Gln Ser His Val Ser Arg Thr Ala Ala Gln
1 5 10

<210> 9053
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<400> 9053

Ala Gln Thr Pro Val Gln Ser Leu Ser Ala Gln
1   5   10

<210> 9054
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<400> 9054

Ala Gln Tyr Leu Asn Gly Ser Glu Leu Ala Gln
1   5   10

<210> 9055
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<400> 9055

Ala Gln Pro Ala Leu Lys Thr His Glu Ala Gln
1   5   10

<210> 9056
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<400> 9056

Ala Gln Asn Lys Ser Leu Thr Ser Asp Ala Gln
1   5   10

<210> 9057

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<400> 9057

Ala Gln Tyr Asn Ala Thr Lys Ser Ser Ala Gln
1 5 10

<210> 9058
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<400> 9058

Ala Gln Met Arg Asp Lys Ser His Asp Ala Gln
1 5 10

<210> 9059
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<220>
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<400> 9059

Ala Gln His Arg Thr Glu Gly Gln Asn Ala Gln
1 5 10

<210> 9060
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<400> 9060

Ala Gln Leu His Lys Pro Asp Glu Phe Ala Gln
1 5 10

<210> 9061
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<400> 9061

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

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<400> 9062

Ala Gln Thr Pro Thr His Tyr Ser His Ala Gln
1   5   10

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<400> 9063

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

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<400> 9064

Ala Gln Gln Ser Val Gln Val Thr Ala Ala Gln
1 5 10

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<400> 9065

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

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<400> 9066

Ala Gln Arg Gln Pro Gln Ser Thr Val Ala Gln
1 5 10

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<400> 9067

Ala Gln Arg Val Asp Asp Gly Val Arg Ala Gln
1 5 10

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<400> 9068

Ala Gln Lys Ile Thr Asn Thr Tyr Ser Ala Gln
1   5   10

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<400> 9069

Ala Gln Pro Gly Lys Ala Thr Pro Pro Ala Gln
1   5   10

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<400> 9070

Ala Gln Phe Ser Thr His Thr Pro Pro Ala Gln
1   5   10

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<400> 9071

Ala Gln Leu Ala Pro Asn Met Arg Leu Ala Gln
1   5   10

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<400> 9072

Ala Gln Asn Leu Pro Arg Thr Asn Val Ala Gln
1 5 10

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<400> 9073

Ala Gln Glu Thr Ser Asn Val Asn Arg Ala Gln
1 5 10

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<400> 9074

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

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<400> 9075

Ala Gln Val Asn Thr Ala Met Pro Ala Ala Gln
1 5 10

<210> 9076
<211> 11
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<400> 9076

Ala Gln Met Val Ala Arg Asp Gln Asn Ala Gln
1   5   10

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<400> 9077

Ala Gln Lys Asn Asn Pro Val Leu His Ala Gln
1   5   10

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<400> 9078

Ala Gln Asp Ser Thr Thr Val Arg Leu Ala Gln
1   5   10

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<400> 9079

Ala Gln Lys Leu Asn Val Met Asn Asp Ala Gln

1 5 10

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<400> 9080

Ala Gln Ser Leu Arg Asp Lys Asn Ala Ala Gln
1 5 10

<210> 9081
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<400> 9081

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

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<400> 9082

Ala Gln Phe Ser Lys Thr Asn Phe Asn Ala Gln
1 5 10

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<400> 9083

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

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<400> 9084

Ala Gln Asp Ser Gln Thr Asn Arg Val Ala Gln
1 5 10

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<400> 9085

Ala Gln Ile Ser Thr Ser Ser Pro Val Ala Gln
1 5 10

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<400> 9086

Ala Gln Ile Leu Lys Ile Thr Glu Gly Ala Gln
1 5 10

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<400> 9087

Ala Gln Phe Arg Pro Ala Ser Glu Ile Ala Gln
1   5   10

<210> 9088
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<400> 9088

Ala Gln Lys Lys Asp Ser Glu Pro Leu Ala Gln
1   5   10

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<400> 9089

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

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<400> 9090

Ala Gln Lys Ala Ala Arg Met Glu Thr Ala Gln
1   5   10

<210> 9091
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<400> 9091

Ala Gln His Ala Asn Val Ser Ser Arg Ala Gln
1   5   10

<210> 9092
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<400> 9092

Ala Gln Thr Ser Thr Thr Gln Thr Ser Ala Gln
1   5   10

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<400> 9093

Ala Gln Ser Ala Leu Ser Leu Ser Pro Ala Gln
1   5   10

<210> 9094
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<400> 9094

Ala Gln Ala Asn Val Gln Ile Gln Ser Ala Gln
1   5   10

<210> 9095
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<400> 9095

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

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<400> 9096

Ala Gln Thr Met Thr Gly Pro Gly His Ala Gln
1   5   10

<210> 9097
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<400> 9097

Ala Gln Ile Thr Ala Gln Ile Thr Asn Ala Gln
1   5   10

<210> 9098
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<400> 9098

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

<210> 9099
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<400> 9099

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

<210> 9100
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<400> 9100

Ala Gln Tyr Thr Asn Gly Arg Ile Asn Ala Gln
1 5 10

<210> 9101
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<400> 9101

Ala Gln Asp Gly Ser Asn Val Val Lys Ala Gln
1 5 10

<210> 9102
<211> 11
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<400> 9102

Ala Gln Leu Pro Leu Ser Ile Pro Ala Ala Gln
1   5   10

<210> 9103
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<400> 9103

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

<210> 9104
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<400> 9104

Ala Gln Met Ser Pro Ser Arg Gly Asn Ala Gln
1   5   10

<210> 9105
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<400> 9105

Ala Gln Ser Val His Ala Ala Lys Gln Ala Gln
1   5   10

<210> 9106
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<400> 9106

Ala Gln Ala Phe Ser Ser Gly Thr Ser Ala Gln
1   5   10

<210> 9107
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<400> 9107

Ala Gln Thr Gly Trp Ser Pro Ser Pro Ala Gln
1   5   10

<210> 9108
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<400> 9108

Ala Gln Ala Ser His Ser Ala Ser Gly Ala Gln
1   5   10

<210> 9109
<211> 11
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<400> 9109

Ala Gln Val Thr Pro Arg Ser Pro Leu Ala Gln
1   5   10

<210> 9110

<211> 11
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<400> 9110

Ala Gln Thr Glu Arg Asp Thr Ser Arg Ala Gln
1   5   10

<210> 9111
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<400> 9111

Ala Gln Tyr Thr Leu Thr Gly Thr Thr Ala Gln
1   5   10

<210> 9112
<211> 11
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<400> 9112

Ala Gln Asp Leu Arg Val Ser Arg Asp Ala Gln
1   5   10

<210> 9113
<211> 11
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<400> 9113

Ala Gln Leu Ile Ala Ser His Thr Ala Ala Gln
1   5   10

<210> 9114
<211> 11
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<400> 9114

Ala Gln Gln Arg Ser Glu Asn Ser His Ala Gln
1   5   10

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<211> 11
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<400> 9115

Ala Gln Ser Ala Ser Asn Gln Thr Tyr Ala Gln
1   5   10

<210> 9116
<211> 11
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<400> 9116

Ala Gln Leu Glu Lys Val Leu Gln Pro Ala Gln
1   5   10

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<211> 11
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<400> 9117

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

<210> 9118
<211> 11
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<400> 9118

Ala Gln Gly Thr Ile His Ser Pro Val Ala Gln
1 5 10

<210> 9119
<211> 11
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<400> 9119

Ala Gln Asn Lys Asn Gly Glu Val Leu Ala Gln
1 5 10

<210> 9120
<211> 11
<212> PRT
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<220>
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<400> 9120

Ala Gln Pro Met Asn Glu Arg Glu Arg Ala Gln
1 5 10

<210> 9121
<211> 11
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<400> 9121

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

<210> 9122
<211> 11
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<400> 9122

Ala Gln Met Ser Leu His Ala Lys Ser Ala Gln
1   5   10

<210> 9123
<211> 11
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<400> 9123

Ala Gln Gln Glu Lys Ala Leu Ala Arg Ala Gln
1   5   10

<210> 9124
<211> 11
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<400> 9124

Ala Gln Asp Arg Ser Thr His Ala Lys Ala Gln
1   5   10

<210> 9125
<211> 11
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<400> 9125

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

<210> 9126
<211> 11
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<220>
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<400> 9126

Ala Gln Ser Ser Gly Gly Met Asn Glu Ala Gln
1 5 10

<210> 9127
<211> 11
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<400> 9127

Ala Gln Lys Leu His Ala Val Glu Ala Ala Gln
1 5 10

<210> 9128
<211> 11
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<400> 9128

Ala Gln Met Phe Ala Glu Gly Thr Val Ala Gln
1 5 10

<210> 9129
<211> 11
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<400> 9129

Ala Gln Thr Leu Gly Arg Val Pro Gln Ala Gln
1 5 10

<210> 9130
<211> 11
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<400> 9130

Ala Gln Leu Leu Gly Asn Lys Asp Lys Ala Gln
1 5 10

<210> 9131
<211> 11
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<400> 9131

Ala Gln Arg Val Asn Thr Ser Thr Asp Ala Gln
1 5 10

<210> 9132
<211> 11
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<400> 9132

Ala Gln Pro Gln Gly Val Ser Pro Ala Ala Gln

1 5 10

<210> 9133
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<400> 9133

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

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<400> 9134

Ala Gln Leu Gly His Ala Ala Thr Ser Ala Gln
1 5 10

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<400> 9135

Ala Gln Ser Gly Phe Ser Ser Thr Ala Ala Gln
1 5 10

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<400> 9136

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

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<400> 9137

Ala Gln Gly Arg Ala Glu Val Gly Ile Ala Gln
1 5 10

<210> 9138
<211> 11
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<400> 9138

Ala Gln Val Leu Ala Thr Lys Asn Ser Ala Gln
1 5 10

<210> 9139
<211> 11
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<220>
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<400> 9139

Ala Gln Gln Ala His Ala Phe Ala Asp Ala Gln
1 5 10

<210> 9140
<211> 11
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<400> 9140

Ala Gln Asn Leu Asp Thr Val Lys Thr Ala Gln
1   5   10

<210> 9141
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<400> 9141

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

<210> 9142
<211> 11
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<220>
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<400> 9142

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

<210> 9143
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<400> 9143

Ala Gln His Val Gln Met Asp Ala Asp Ala Gln
1   5   10

<210> 9144
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<212> PRT
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<400> 9144

Ala Gln Thr Tyr Arg Thr Glu Pro Val Ala Gln
1   5   10

<210> 9145
<211> 11
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<400> 9145

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

<210> 9146
<211> 11
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<400> 9146

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

<210> 9147
<211> 11
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<400> 9147

Ala Gln Leu Gly Ala Ser Gly Tyr Thr Ala Gln
1   5   10

<210> 9148
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<400> 9148

Ala Gln Ser Ala Val Thr Thr Met Pro Ala Gln
1   5   10

<210> 9149
<211> 11
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<400> 9149

Ala Gln Lys Val Asn Ala Glu Leu Leu Ala Gln
1   5   10

<210> 9150
<211> 11
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<400> 9150

Ala Gln Pro Phe Thr Pro Lys Leu Ser Ala Gln
1   5   10

<210> 9151
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<400> 9151

Ala Gln Met Arg Ser Thr Asn Ala Ser Ala Gln
1   5   10

<210> 9152
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<400> 9152

Ala Gln Val Met Tyr Ala Arg Gly Asp Ala Gln
1   5   10

<210> 9153
<211> 11
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<400> 9153

Ala Gln Arg Val Gly Ser Thr Met Gln Ala Gln
1   5   10

<210> 9154
<211> 11
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<220>
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<400> 9154

Ala Gln Leu Thr Val Ala Val Glu Thr Ala Gln
1   5   10

<210> 9155
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<400> 9155

Ala Gln Trp Thr Asn Ser Gly Ser Ser Ala Gln
1 5 10

<210> 9156
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<400> 9156

Ala Gln His Ala Met Arg Gly Thr Gly Ala Gln
1 5 10

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<211> 11
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<400> 9157

Ala Gln His Gln Asp Val Arg Gly Ser Ala Gln
1 5 10

<210> 9158
<211> 11
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<220>
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<400> 9158

Ala Gln Ser Phe Gln Arg Glu Ile Pro Ala Gln
1 5 10

<210> 9159
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<400> 9159

Ala Gln Leu Gln Arg Ala Ala Leu Asn Ala Gln
1   5   10

<210> 9160
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<400> 9160

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

<210> 9161
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<400> 9161

Ala Gln Gln Met Ser Thr Gly Arg Val Ala Gln
1   5   10

<210> 9162
<211> 11
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<400> 9162

Ala Gln Arg Ser Thr Gln Ala Ile Pro Ala Gln
1   5   10

<210> 9163

<211> 11
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<400> 9163

Ala Gln Gln Ile Arg Asp Ala Asn Ala Ala Gln
1   5   10

<210> 9164
<211> 11
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<400> 9164

Ala Gln Leu His Thr Ser Asn Ala Tyr Ala Gln
1   5   10

<210> 9165
<211> 11
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<400> 9165

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

<210> 9166
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<400> 9166

Ala Gln Asp His Lys Pro Val Arg Asp Ala Gln
1   5   10

<210> 9167
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<400> 9167

Ala Gln Met Lys Leu Val Ser Val Gly Ala Gln
1   5   10

<210> 9168
<211> 11
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<220>
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<400> 9168

Ala Gln Gly Glu Gln Ser Leu Lys Ala Ala Gln
1   5   10

<210> 9169
<211> 11
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<400> 9169

Ala Gln Met Thr Ser Gly Thr Asn Gly Ala Gln
1   5   10

<210> 9170
<211> 11
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<220>
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<400> 9170

Ala Gln His Ala Ala Lys Gly Val Val Ala Gln
1   5   10

<210> 9171
<211> 11
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<400> 9171

Ala Gln Ser Ser Arg Gln Asn Glu Pro Ala Gln
1   5   10

<210> 9172
<211> 11
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<220>
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<400> 9172

Ala Gln Ala Leu Ile Asn Arg Pro Asn Ala Gln
1   5   10

<210> 9173
<211> 11
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<400> 9173

Ala Gln Leu Arg Ser Ser Met Ala Ser Ala Gln
1   5   10

<210> 9174
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<400> 9174

Ala Gln Asn Asn Glu Tyr Ser Lys Leu Ala Gln
1   5   10

<210> 9175
<211> 11
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<220>
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<400> 9175

Ala Gln Thr Gly Arg Leu Asn Gly Glu Ala Gln
1   5   10

<210> 9176
<211> 11
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<400> 9176

Ala Gln Thr Asn Ser His Ala Val Arg Ala Gln
1   5   10

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Ala Gln Ile Val Thr Asn His Ser His Ala Gln
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<400> 9178

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

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Ala Gln Asn Thr Val Arg Ser Gln Gln Ala Gln
1 5 10

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<400> 9181

Ala Gln Met Glu Asn Ser Asn Lys Ala Ala Gln
1 5 10

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<400> 9182

Ala Gln Gly Thr Val Arg Val Gln Ala Ala Gln
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Ala Gln Thr Thr Ser His Leu Ile Asp Ala Gln
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Ala Gln Gly Thr Gln Ala His Gln Gly Ala Gln
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Ala Gln Lys Met Ser Ala Ser Ser Val Ala Gln

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<400> 9186

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

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<400> 9187

Ala Gln Ser Thr Gly Thr Ser Thr Leu Ala Gln
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<400> 9188

Ala Gln Val Leu Thr Asn Arg Glu Gln Ala Gln
1 5 10

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<400> 9189

Ala Gln Leu Asp Val Ser Arg Thr Leu Ala Gln
1 5 10

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<400> 9190

Ala Gln Ser Phe Gly Thr Glu Ser Arg Ala Gln
1 5 10

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<400> 9191

Ala Gln Gln Leu Ala Lys Gly Asn Tyr Ala Gln
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<400> 9192

Ala Gln Ala Lys Asn Asp Pro Arg Ala Ala Gln
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<400> 9193

Ala Gln Leu Thr Gln Val Gly Gly Thr Ala Gln
1   5   10

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<400> 9194

Ala Gln Lys Gln Asn Thr Thr Ser Leu Ala Gln
1   5   10

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<400> 9195

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

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<400> 9196

Ala Gln Thr Val Pro Asn Ile Pro Met Ala Gln
1   5   10

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<400> 9197

Ala Gln Asn Ser Leu Ser Lys Leu Ser Ala Gln
1   5   10

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<400> 9198

Ala Gln Met Asn Glu His Gln Met Lys Ala Gln
1   5   10

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<400> 9199

Ala Gln Asp Val Lys Gly His Gln Ser Ala Gln
1   5   10

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<400> 9200

Ala Gln Asp Val Ser Leu Gln Lys Asp Ala Gln
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<400> 9201

Ala Gln Thr Arg Pro Ser Gly Thr Tyr Ala Gln
1 5 10

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<400> 9202

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

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<400> 9203

Ala Gln Asn His Ser Ser Tyr Glu Leu Ala Gln
1 5 10

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<400> 9204

Ala Gln Thr Val Arg Thr Pro Leu Ile Ala Gln
1 5 10

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<400> 9205

Ala Gln Ala Ser Ile Asp Ser Gln His Ala Gln
1 5 10

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<400> 9206

Ala Gln Asp Gln Lys Asn Ser Gly His Ala Gln
1 5 10

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<400> 9207

Ala Gln Leu Asp Thr Asn Asn Lys Ala Ala Gln
1 5 10

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<400> 9208

Ala Gln Ala Ser Ala His Ala Gln Val Ala Gln
1 5 10

<210> 9209
<211> 11
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<400> 9209

Ala Gln Asp Ser Gly Lys His Asn Asp Ala Gln
1 5 10

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<400> 9210

Ala Gln Leu Asn Arg Asn Ser Gly Met Ala Gln
1 5 10

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<400> 9211

Ala Gln Pro Thr Met Leu Pro Asp Lys Ala Gln
1 5 10

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<400> 9212

Ala Gln Ser Thr Gln Val Ser Asn Tyr Ala Gln
1   5   10

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<400> 9213

Ala Gln Ser Asn Gln Thr Leu Met Ser Ala Gln
1   5   10

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<400> 9214

Ala Gln Arg Asn Pro Gly Ser Thr Ser Ala Gln
1   5   10

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<400> 9215

Ala Gln Arg Met Ala Gln Gly Tyr Ser Ala Gln
1   5   10

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<400> 9216

Ala Gln Gln Val Met Arg Gln Ser Ser Ala Gln
1 5 10

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<211> 11
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<400> 9217

Ala Gln Lys Asn Thr Thr Val Ser Asp Ala Gln
1 5 10

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<211> 11
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<400> 9218

Ala Gln Thr Gly Lys Thr Ala Arg Asp Ala Gln
1 5 10

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<400> 9219

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

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<400> 9220

Ala Gln Arg Leu Asp Asn Ala Gly Met Ala Gln
1   5   10

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<400> 9221

Ala Gln Ser Gly Thr Gly Arg Gln Gln Ala Gln
1   5   10

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<400> 9222

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

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<400> 9223

Ala Gln Arg Tyr Asp Gly Ser Val Ala Ala Gln
1   5   10

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<400> 9224

Ala Gln Ala His Tyr Pro Ala Ser Thr Ala Gln
1   5   10

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<400> 9225

Ala Gln Lys Ser Asn Gly Ser Pro Leu Ala Gln
1   5   10

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<400> 9226

Ala Gln Arg Asp Leu Val Leu Thr Lys Ala Gln
1   5   10

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<400> 9227

Ala Gln Thr Ser Asn Pro Gly Asn Met Ala Gln
1   5   10

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<400> 9228

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

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<400> 9229

Ala Gln Thr Gly Gly Gly Ser Phe Ser Ala Gln
1   5   10

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<400> 9230

Ala Gln Tyr Pro Asn Lys Glu Leu Ser Ala Gln
1   5   10

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<400> 9231

Ala Gln Thr Met Val His Gln Glu Ser Ala Gln
1 5 10

<210> 9232
<211> 11
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<400> 9232

Ala Gln Val Asn Ser Asn Asn Ser Met Ala Gln
1 5 10

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<400> 9233

Ala Gln Asn Gly Val His Val Thr Pro Ala Gln
1 5 10

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<400> 9234

Ala Gln Ala Lys Tyr Leu Asn Ser Asn Ala Gln
1 5 10

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<400> 9235

Ala Gln Gly Met Thr Lys Asn Gly Gly Ala Gln
1   5   10

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<400> 9236

Ala Gln Arg Ala Arg Asp Glu Gly Met Ala Gln
1   5   10

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<400> 9237

Ala Gln Val Pro Ser Pro Gly Ala Thr Ala Gln
1   5   10

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<400> 9238

Ala Gln Lys Thr Gln Leu Gly Gln Met Ala Gln

1 5 10

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<400> 9239

Ala Gln Ser Thr Ser Thr Ile Gln Pro Ala Gln
1 5 10

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<400> 9240

Ala Gln Arg Lys Glu Asn Ala Ser Tyr Ala Gln
1 5 10

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<400> 9241

Ala Gln Leu Thr Asn His Gly Asn Val Ala Gln
1 5 10

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<400> 9242

Ala Gln Leu Asp Asn Val His Ser His Ala Gln
1 5 10

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<400> 9243

Ala Gln Pro Thr Met Ala Val Thr Pro Ala Gln
1 5 10

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<400> 9244

Ala Gln Lys Pro Glu Arg Thr Glu Ala Ala Gln
1 5 10

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<400> 9245

Ala Gln Thr Gly Asp Arg Lys Ser Gly Ala Gln
1 5 10

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<400> 9246

Ala Gln Ala Lys His Thr Ser Phe Pro Ala Gln
1   5   10

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<400> 9247

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

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<400> 9248

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

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<400> 9249

Ala Gln Ala Glu Arg Ile Gly Met Gly Ala Gln
1   5   10

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<400> 9250

Ala Gln Ser Leu Val Arg Gln Ser Asp Ala Gln
1   5   10

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<400> 9251

Ala Gln His Val Lys Ala Asn Pro Ile Ala Gln
1   5   10

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<400> 9252

Ala Gln Val Val Asp Thr Leu Lys Asn Ala Gln
1   5   10

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<400> 9253

Ala Gln Gln Ile Pro Tyr Asn Ser Ser Ala Gln
1   5   10

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<400> 9254

Ala Gln Ala Asp His Ser Met His Val Ala Gln
1   5   10

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<400> 9255

Ala Gln Asn His Val Thr Ala Gln Ala Ala Gln
1   5   10

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<400> 9256

Ala Gln Thr Asn Phe Thr Lys Ser Gly Ala Gln
1   5   10

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<400> 9257

Ala Gln Tyr Gly His Ser Met Thr Asn Ala Gln
1   5   10

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<400> 9258

Ala Gln Met Arg Pro Asp Leu Lys Thr Ala Gln
1   5   10

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<400> 9259

Ala Gln Gly Pro Gly Thr Ser Phe Lys Ala Gln
1   5   10

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<400> 9260

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

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<400> 9261

Ala Gln Ser Val Lys Ala Asn Pro Thr Ala Gln
1 5 10

<210> 9262
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<400> 9262

Ala Gln Thr Pro Thr Val Phe Thr Pro Ala Gln
1 5 10

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<400> 9263

Ala Gln Met Leu Pro Ser Pro Gly Ser Ala Gln
1 5 10

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<400> 9264

Ala Gln Asn Phe Asp Tyr Ala Lys Pro Ala Gln
1 5 10

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<400> 9265

Ala Gln Thr Leu Asn Thr Ser Pro Met Ala Gln
1   5   10

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<400> 9266

Ala Gln Thr Asn Ser Pro Lys Ser Thr Ala Gln
1   5   10

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

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<400> 9268

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

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<400> 9269

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

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<400> 9270

Ala Gln Asn Ile His Thr Ala Thr Thr Ala Gln
1   5   10

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<400> 9271

Ala Gln Leu Leu Pro Gln Thr Thr Leu Ala Gln
1   5   10

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<400> 9272

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

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Ala Gln Glu Arg Asn Gly Ser His Glu Ala Gln
1   5   10

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<400> 9274

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

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<400> 9275

Ala Gln Val Gly Gln Tyr Ala Ser Pro Ala Gln
1   5   10

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<400> 9276

Ala Gln Val Ala Glu Thr Gly Arg Thr Ala Gln
1 5 10

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<400> 9277

Ala Gln Met Ser Ala Gly Ser Asn Ser Ala Gln
1 5 10

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<400> 9278

Ala Gln Leu Ser Pro Lys Asn Ala Gln Ala Gln
1 5 10

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<400> 9279

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

<210> 9280
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<400> 9280

Ala Gln Arg Leu Gln Asp Lys Pro Gln Ala Gln
1   5   10

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<400> 9281

Ala Gln Asn Val Pro Arg Ser Ser Val Ala Gln
1   5   10

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<400> 9282

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

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Ala Gln Ala Lys Glu Pro Met Ser Ala Ala Gln
1   5   10

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<400> 9284

Ala Gln Ala Val Ser Gly Ala Ala His Ala Gln
1 5 10

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<400> 9285

Ala Gln Tyr Asn Asn Lys Ser Ala Ala Ala Gln
1 5 10

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<400> 9286

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

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Ala Gln Lys Gly Thr His Pro Pro Ala Ala Gln
1 5 10

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Ala Gln Gln Tyr Pro Asn Ser Lys Val Ala Gln
1   5   10

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<400> 9289

Ala Gln His Asn Ala Ser Asn Ser Gly Ala Gln
1   5   10

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Ala Gln Glu Leu Asn Pro Lys Phe Ile Ala Gln
1   5   10

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Ala Gln Ser Arg Glu Thr Pro Gly Thr Ala Gln

1 5 10

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Ala Gln Asn Phe Lys Pro Gln Asn Glu Ala Gln
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<400> 9293

Ala Gln Ala Met Thr Ser Gly Ser Ala Ala Gln
1 5 10

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<400> 9294

Ala Gln Lys Asp Pro Arg Ser Thr Leu Ala Gln
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Ala Gln Asp Arg Gly Thr Arg Thr Val Ala Gln
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<400> 9296

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

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<400> 9297

Ala Gln Ala Ile Arg Phe Asn Glu Pro Ala Gln
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Ala Gln Gln His His Ile Ala Thr Pro Ala Gln
1 5 10

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

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<400> 9303

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

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<400> 9304

Ala Gln Ile Gln Asn Ser Leu Met Pro Ala Gln
1 5 10

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<400> 9305

Ala Gln Gln His Asn Thr Gln Asn Thr Ala Gln
1 5 10

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<400> 9306

Ala Gln Val Gly Pro Thr Met Thr His Ala Gln
1 5 10

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<400> 9307

Ala Gln Thr Asn Val Thr Met Ala Arg Ala Gln
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<400> 9308

Ala Gln Ser Ala His Phe Thr Gly Thr Ala Gln
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Ala Gln Arg Tyr Ser Val Asn Asp Lys Ala Gln
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<400> 9310

Ala Gln Val Tyr Lys Ser Ala Asp Pro Ala Gln
1   5   10

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Ala Gln Val His Thr Ala Leu Pro Met Ala Gln
1   5   10

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<400> 9312

Ala Gln Thr Ile Ser Ser Ala Gly Ile Ala Gln
1   5   10

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<400> 9313

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

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<400> 9314

Ala Gln Ser Gln Glu Arg Ala Met Ser Ala Gln
1 5 10

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<400> 9315

Ala Gln Met Asn Gln Leu Ala Asn Pro Ala Gln
1 5 10

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<400> 9316

Ala Gln Phe Gly Ala Thr Ser Gly Gln Ala Gln
1 5 10

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<400> 9317

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

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<400> 9318

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

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<400> 9319

Ala Gln Ile Ala Asn Ser Gln Ala Ala Ala Gln
1   5   10

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<400> 9320

Ala Gln Ser Asn Arg Ile Val Pro Val Ala Gln
1   5   10

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<400> 9321

Ala Gln Ser Pro Asn Pro Ser Asn Ala Ala Gln
1   5   10

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<400> 9322

Ala Gln Lys Trp Asp Ser Ala Asn Glu Ala Gln
1 5 10

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Ala Gln Ala Ser Arg Gln Gly Glu Ala Ala Gln
1 5 10

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<400> 9324

Ala Gln Val Pro Gly Asn Ser Pro His Ala Gln
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<400> 9325

Ala Gln Ser Ala Thr Thr Asn Ser Val Ala Gln
1 5 10

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<400> 9326

Ala Gln His Ile Gly Ala Arg Gln Val Ala Gln
1   5   10

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

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Ala Gln Asn Pro Thr Gln Ala Val Leu Ala Gln
1   5   10

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Ala Gln Thr Lys Asn Glu Thr Gly Thr Ala Gln
1   5   10

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<400> 9330

Ala Gln Leu Thr Ala Thr Leu Thr Ser Ala Gln
1   5   10

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

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Ala Gln Asn Asn His Ile Pro Leu Ala Ala Gln
1   5   10

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

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Ala Gln Gln Gln Asn Asp Arg Asn Ala Ala Gln
1   5   10

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<400> 9336

Ala Gln Met Leu Ser Thr Asn Arg Ser Ala Gln
1   5   10

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<400> 9337

Ala Gln Ile Thr Ser Ala Thr Leu Ser Ala Gln
1 5 10

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<400> 9338

Ala Gln Val Asp Ala Met Gln Arg Pro Ala Gln
1 5 10

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<400> 9339

Ala Gln Arg Glu Ala Asn Tyr Ala Ser Ala Gln
1 5 10

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<400> 9340

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

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Ala Gln Gly Leu Asp Lys Met Gly Ser Ala Gln
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<400> 9342

Ala Gln Phe Thr Thr Ser His Ala Pro Ala Gln
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<400> 9343

Ala Gln Asp Lys Ser Val Lys Phe Ala Ala Gln
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<400> 9344

Ala Gln His Ala Lys Lys Glu Leu Gln Ala Gln

1 5 10

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Ala Gln Val Glu Ser Lys Gly Ala Ser Ala Gln
1 5 10

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Ala Gln Lys Thr Ala Pro Ser Met Gly Ala Gln
1 5 10

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<400> 9347

Ala Gln Gly Leu Arg Thr Asp Asn Arg Ala Gln
1 5 10

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Ala Gln Arg Ile Ala Gly Asn Asn Pro Ala Gln
1 5 10

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<400> 9349

Ala Gln Lys Asp Pro His Gln Val Val Ala Gln
1 5 10

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Ala Gln Glu Gln Thr Pro His Asn Ser Ala Gln
1 5 10

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Ala Gln Gly Leu Asp Lys Gly Asn Trp Ala Gln
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Ala Gln Pro Ser Asn Gly Asn Tyr Ser Ala Gln
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Ala Gln Gly Arg Pro Gly Ile Gly Ser Ala Gln
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Ala Gln Arg Thr Ser Pro Gly Val Ser Ala Gln
1   5   10

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

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<400> 9356

Ala Gln Lys Thr Ser Thr Asn Leu Gln Ala Gln
1   5   10

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Ala Gln Met Asp Met Lys Gln Asn Met Ala Gln
1   5   10

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Ala Gln Asp Leu Asn Gly Ile Asn Val Ala Gln
1   5   10

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<400> 9359

Ala Gln Arg Thr Pro Pro Ser Phe Glu Ala Gln
1   5   10

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<400> 9360

Ala Gln Asp Phe His Asp Arg Lys Gly Ala Gln
1   5   10

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<400> 9361

Ala Gln Leu His Thr Gln Thr Gln Thr Ala Gln
1   5   10

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<400> 9362

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

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<400> 9363

Ala Gln Ile Ala Ser Val Pro Arg Asp Ala Gln
1   5   10

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<400> 9364

Ala Gln Lys Ala Lys Asp Val Gly Asp Ala Gln
1   5   10

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<400> 9365

Ala Gln Ser Ala Phe Ala Ala Lys Gln Ala Gln
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<400> 9366

Ala Gln Val Tyr Gln Gly Gln His Leu Ala Gln
1   5   10

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<400> 9367

Ala Gln Tyr Leu Pro Ala Ala Ser Ser Ala Gln
1 5 10

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<400> 9368

Ala Gln Ser Pro Ser Thr Val Ile Ser Ala Gln
1 5 10

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<400> 9369

Ala Gln Gly Thr Asn Lys Pro Pro Asp Ala Gln
1 5 10

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<400> 9370

Ala Gln Glu Ser Thr Gly Ala Ile Arg Ala Gln
1 5 10

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<400> 9371

Ala Gln Leu Met Asn Thr Thr Ile Ala Ala Gln
1   5   10

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<400> 9372

Ala Gln Met Ala Gly Val Ala Gln Pro Ala Gln
1   5   10

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<400> 9373

Ala Gln Arg Pro Glu Leu Lys Arg Glu Ala Gln
1   5   10

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<400> 9374

Ala Gln Lys Ala Gln Asp Thr Pro Thr Ala Gln
1   5   10

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<400> 9375

Ala Gln Ser Thr Asn His Ser Thr Ser Ala Gln
1   5   10

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<400> 9376

Ala Gln Phe Pro Arg Thr Thr Thr Asp Ala Gln
1   5   10

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<400> 9377

Ala Gln Ser Arg Ala His Asn Leu Asp Ala Gln
1   5   10

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<400> 9378

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

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<400> 9379

Ala Gln Gly Gly Lys Ser Phe Ala Gln Ala Gln
1   5   10

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<400> 9380

Ala Gln Gly Arg Pro Ser Ser Thr Gln Ala Gln
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<400> 9381

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

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<400> 9382

Ala Gln Glu Asn Leu Ser Asn Gly Arg Ala Gln
1   5   10

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Ala Gln Glu Asn Thr Ile Arg Met Ser Ala Gln
1   5   10

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<400> 9384

Ala Gln Pro Pro Arg Ser Met Pro Met Ala Gln
1   5   10

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<400> 9385

Ala Gln Leu Leu Ser Ser Asn Leu Pro Ala Gln
1   5   10

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<400> 9386

Ala Gln Arg Val Gln Ser Leu Asn Glu Ala Gln
1   5   10

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Ala Gln Pro Arg Arg Ala Gln Asp Asp Ala Gln
1   5   10

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<400> 9388

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

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<400> 9389

Ala Gln Ser Gly Glu Thr Leu Arg Gly Ala Gln
1   5   10

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<400> 9390

Ala Gln His Val Ser His Asn Thr Asp Ala Gln
1 5 10

<210> 9391
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<400> 9391

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

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<400> 9392

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

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<400> 9393

Ala Gln Val Arg Ser Glu Asn Gly Val Ala Gln
1 5 10

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<400> 9394

Ala Gln Thr Leu Lys Val Thr Gly Asp Ala Gln
1   5   10

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<400> 9395

Ala Gln Val Pro Lys Val Tyr Leu Asp Ala Gln
1   5   10

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<400> 9396

Ala Gln Thr Ser Met Arg Asn Thr Glu Ala Gln
1   5   10

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<400> 9397

Ala Gln Gly Tyr Ser His Gly Ser Met Ala Gln

1 5 10

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<400> 9398

Ala Gln Ala Thr Phe Pro Glu Lys Gln Ala Gln
1 5 10

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<400> 9399

Ala Gln Thr Gly Pro Thr His Gly Thr Ala Gln
1 5 10

<210> 9400
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Ala Gln Thr Asn Asp Arg His Ala Pro Ala Gln
1 5 10

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<400> 9401

Ala Gln Arg His Leu Ala Ser Val Asp Ala Gln
1 5 10

<210> 9402
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<220>
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<400> 9402

Ala Gln Asn Met Ile Gln Pro Ser Asn Ala Gln
1 5 10

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<400> 9403

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

<210> 9404
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<400> 9404

Ala Gln Gln Thr Val Gly Pro Leu Pro Ala Gln
1 5 10

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<400> 9405

Ala Gln Val Gly His Leu Ser Arg Asp Ala Gln
1   5   10

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<400> 9406

Ala Gln Gln Asn Phe Asn Ala Gly His Ala Gln
1   5   10

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<400> 9407

Ala Gln Leu Thr Gly Ala Ala Arg Val Ala Gln
1   5   10

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<400> 9408

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

<210> 9409
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<400> 9409

Ala Gln Met Pro Leu Ser Val Ala Pro Ala Gln
1   5   10

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<400> 9410

Ala Gln Asp Arg Val Gln Gln Phe Ser Ala Gln
1   5   10

<210> 9411
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<400> 9411

Ala Gln Asn Asn Asp Thr Ser Thr Lys Ala Gln
1   5   10

<210> 9412
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<400> 9412

Ala Gln Pro Ser Lys Asn Thr His Ile Ala Gln
1   5   10

<210> 9413
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<400> 9413

Ala Gln Pro Phe Lys Ala Asp Val Thr Ala Gln
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<210> 9414
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<400> 9414

Ala Gln Pro Lys Thr Pro Thr Tyr Val Ala Gln
1   5   10

<210> 9415
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<400> 9415

Ala Gln Leu Thr Asn Met Thr Thr Pro Ala Gln
1   5   10

<210> 9416
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<400> 9416

Ala Gln Gly Ser Lys Val His Leu Ser Ala Gln
1   5   10

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<400> 9417

Ala Gln Ser Ile Pro Gly Tyr Asn Asn Ala Gln
1   5   10

<210> 9418
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<400> 9418

Ala Gln Met Lys Thr Ala Glu Ser Tyr Ala Gln
1   5   10

<210> 9419
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<400> 9419

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

<210> 9420
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<400> 9420

Ala Gln Gly Thr Thr His Thr Ser Leu Ala Gln
1 5 10

<210> 9421
<211> 11
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<400> 9421

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

<210> 9422
<211> 11
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<220>
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<400> 9422

Ala Gln Met Asn Ala Leu Thr Asp Lys Ala Gln
1 5 10

<210> 9423
<211> 11
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<400> 9423

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

<210> 9424
<211> 11
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<400> 9424

Ala Gln Leu Asp Asn Gly Thr Thr Arg Ala Gln
1   5   10

<210> 9425
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<400> 9425

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

<210> 9426
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<400> 9426

Ala Gln Asn Met Gln Ala Ile Ser Asn Ala Gln
1   5   10

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<400> 9427

Ala Gln Asn Thr Asn Pro Arg Ser Ile Ala Gln
1   5   10

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<211> 11
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<400> 9428

Ala Gln Lys Ile Asn Ser Asn Ser Pro Ala Gln
1 5 10

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<400> 9429

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

<210> 9430
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<400> 9430

Ala Gln Arg Leu Asn His Asn Ser Pro Ala Gln
1 5 10

<210> 9431
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<400> 9431

Ala Gln Gln Leu Asn Thr Val Leu Pro Ala Gln
1 5 10

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<400> 9432

Ala Gln Asp Ser Phe Gly Lys Ser Leu Ala Gln
1 5 10

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<400> 9433

Ala Gln Lys Pro Pro Lys Leu Val Asp Ala Gln
1 5 10

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<400> 9434

Ala Gln Gln Ile Thr Val Gly Lys Pro Ala Gln
1 5 10

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<400> 9435

Ala Gln Gln His Pro His Gly Gln Gln Ala Gln
1 5 10

<210> 9436
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<400> 9436

Ala Gln Thr Ser Thr Asn Met Ala Ala Ala Gln
1 5 10

<210> 9437
<211> 11
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<400> 9437

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

<210> 9438
<211> 11
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<400> 9438

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

<210> 9439
<211> 11
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<400> 9439

Ala Gln Ser Gly Lys Pro Ala Ser Glu Ala Gln
1   5   10

<210> 9440
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<400> 9440

Ala Gln Arg Ser Val Ser Val Asn Ser Ala Gln
1   5   10

<210> 9441
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<400> 9441

Ala Gln Asp Arg Gly Gly Val Val Ala Ala Gln
1   5   10

<210> 9442
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<400> 9442

Ala Gln Gly Arg Glu Thr Gly Phe Ser Ala Gln
1   5   10

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<400> 9443

Ala Gln Gln Ile Val Pro Ser Asn Pro Ala Gln
1 5 10

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<400> 9444

Ala Gln Thr Thr Leu Gly His Ser Tyr Ser Gln
1 5 10

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<400> 9445

Ala Gln Ser Arg Glu Phe Gln Leu Ala Ala Gln
1 5 10

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<400> 9446

Ala Gln Gly Arg Asp His Asn Ile Gly Ala Gln
1 5 10

<210> 9447
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<400> 9447

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

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<400> 9448

Ala Gln Lys Asn Gln Ser Ser Asp Leu Ala Gln
1   5   10

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<400> 9449

Ala Gln Pro Asn Asp Arg Ala His Gly Ala Gln
1   5   10

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<400> 9450

Ala Gln Ala Leu Thr Arg Thr Gln Ser Ala Gln

1 5 10

<210> 9451
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<400> 9451

Ala Gln Met Arg Pro Pro Ser Asp Lys Ala Gln
1 5 10

<210> 9452
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<400> 9452

Ala Gln Thr Asn Ser Thr Thr Lys Ser Ala Gln
1 5 10

<210> 9453
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<400> 9453

Ala Gln Gly Arg His Gly Met Thr Ala Ala Gln
1 5 10

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<400> 9454

Ala Gln Val Ser His Ile Ser Pro Ala Ala Gln
1 5 10

<210> 9455
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<400> 9455

Ala Gln Lys Val Thr Ser Asn Ser Ser Ala Gln
1 5 10

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<400> 9456

Ala Gln Met Tyr Gly Pro Gly Ala Ser Ala Gln
1 5 10

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<400> 9457

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

<210> 9458
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<400> 9458

Ala Gln Asn Ser Ser Ser Ser Asn Lys Ala Gln
1   5   10

<210> 9459
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<400> 9459

Ala Gln Ser Thr Glu Lys Ser Thr Ser Ala Gln
1   5   10

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<400> 9460

Ala Gln Asn Thr Asn Gly Asn Lys Gly Ala Gln
1   5   10

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<400> 9461

Ala Gln Ile Thr Thr Asn Leu Gly Ala Ala Gln
1   5   10

<210> 9462
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<400> 9462

Ala Gln Ile Gln Lys Pro Gln Ser Ser Ala Gln
1   5   10

<210> 9463
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<400> 9463

Ala Gln Val Arg Asp Ala Ala Tyr Thr Ala Gln
1   5   10

<210> 9464
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<400> 9464

Ala Gln Ala Arg Ser Ser Thr Gly Ala Ala Gln
1   5   10

<210> 9465
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<400> 9465

Ala Gln Thr Ser Val His Asn Lys Val Ala Gln
1   5   10

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<400> 9466

Ala Gln Thr Ile Ser Thr His Gly Thr Ala Gln
1   5   10

<210> 9467
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<400> 9467

Ala Gln Thr Val Thr Asn Ile Asn Phe Ala Gln
1   5   10

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<400> 9468

Ala Gln Ser Ile Asn Ser Asn His Ile Ala Gln
1   5   10

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<220>
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<400> 9469

Ala Gln Gln Lys Ala Gly Tyr Ser Asn Ala Gln
1   5   10

<210> 9470
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<400> 9470

Ala Gln Ala Arg Asp Thr Val Arg Thr Ala Gln
1   5   10

<210> 9471
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<400> 9471

Ala Gln Tyr Lys Asp Gln Thr Lys Val Ala Gln
1   5   10

<210> 9472
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<400> 9472

Ala Gln Asn Ile Gly Leu Asn Pro Met Ala Gln
1   5   10

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<220>
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<400> 9473

Ala Gln Gly Ser Thr Asn Met Ile Tyr Ala Gln
1 5 10

<210> 9474
<211> 11
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<400> 9474

Ala Gln Ile Asp Ala Lys Gly Leu Lys Ala Gln
1 5 10

<210> 9475
<211> 11
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<400> 9475

Ala Gln Val Val Ser His Asn Leu Thr Ala Gln
1 5 10

<210> 9476
<211> 11
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<400> 9476

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

<210> 9477
<211> 11
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<400> 9477

Ala Gln Tyr Ser Gly Ser Asn Tyr His Ala Gln
1   5   10

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<400> 9478

Ala Gln Pro Ser Asp Ala Thr Met Gly Ala Gln
1   5   10

<210> 9479
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<400> 9479

Ala Gln Trp Gly Glu Thr Thr Asn Gly Ala Gln
1   5   10

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<400> 9480

Ala Gln Asn Tyr His Lys Thr Met Pro Ala Gln
1   5   10

<210> 9481

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<400> 9481

Ala Gln Ala Arg His Glu Leu Pro Val Ala Gln
1 5 10

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<400> 9482

Ala Gln His Asn Leu Thr Arg Asn Leu Ala Gln
1 5 10

<210> 9483
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<400> 9483

Ala Gln Gly Pro Gln Ile Gly Thr Val Ala Gln
1 5 10

<210> 9484
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<400> 9484

Ala Gln Met Arg Ala Asp Ser Asn Val Ala Gln
1 5 10

<210> 9485
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<400> 9485

Ala Gln Val Ala Asn Gly Pro Thr Thr Ala Gln
1   5   10

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<211> 11
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<400> 9486

Ala Gln Thr Lys Asn Leu Asn Thr Tyr Ala Gln
1   5   10

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<400> 9487

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

<210> 9488
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<400> 9488

Ala Gln Asn Ile Gly Ser Gly Gln Lys Ala Gln
1   5   10

<210> 9489
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<400> 9489

Ala Gln Gly Arg Glu Met Thr Asn Pro Ala Gln
1   5   10

<210> 9490
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<400> 9490

Ala Gln Ile Met Ala Ala Ala His Ser Ala Gln
1   5   10

<210> 9491
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<400> 9491

Ala Gln Ser Asp Gln Arg Ile His Pro Ala Gln
1   5   10

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<400> 9492

Ala Gln Val Ser Gly Gln Thr Asn Met Ala Gln
1   5   10

<210> 9493
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<400> 9493

Ala Gln Tyr Ser Leu Gly Ser Glu Pro Ala Gln
1   5   10

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<400> 9494

Ala Gln Ser Thr Leu Lys Ala Leu Thr Ala Gln
1   5   10

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<400> 9495

Ala Gln Ser Ala Leu Ile Pro Ser Pro Ala Gln
1   5   10

<210> 9496
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<400> 9496

Ala Gln Thr Ser Gln Ala Gly Asn Gln Ala Gln
1 5 10

<210> 9497
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<400> 9497

Ala Gln Lys His Ala Ser Leu Pro Ile Ala Gln
1 5 10

<210> 9498
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<400> 9498

Ala Gln Leu Asp Gln Leu Thr Lys Asn Ala Gln
1 5 10

<210> 9499
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<220>
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<400> 9499

Ala Gln Met Ala Arg Ser Thr Asp Arg Ala Gln
1 5 10

<210> 9500
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<400> 9500

Ala Gln Ser Tyr Asn His Ile Glu Lys Ala Gln
1   5   10

<210> 9501
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<400> 9501

Ala Gln Val Asn His Ile Gln Pro Met Ala Gln
1   5   10

<210> 9502
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<400> 9502

Ala Gln Ser Arg Ala Glu Pro Lys Leu Ala Gln
1   5   10

<210> 9503
<211> 11
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<400> 9503

Ala Gln Ala Ser His Ile Gly Asn Ser Ala Gln

1 5 10

<210> 9504
<211> 11
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<400> 9504

Ala Gln His Gln Gly Phe Ala Ser Ala Ala Gln
1 5 10

<210> 9505
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<212> PRT
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<220>
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<400> 9505

Ala Gln Glu Gly Lys Ser Ile Met Pro Ala Gln
1 5 10

<210> 9506
<211> 11
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<220>
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<400> 9506

Ala Gln Leu Thr Gly Met His Ser Thr Ala Gln
1 5 10

<210> 9507
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<400> 9507

Ala Gln Ser Asn Pro Ser Thr Ile His Ala Gln
1 5 10

<210> 9508
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<400> 9508

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

<210> 9509
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<400> 9509

Ala Gln Lys Thr Ala Glu Pro Tyr Thr Ala Gln
1 5 10

<210> 9510
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<400> 9510

Ala Gln Ile Gly Ser Asn Pro Asp Lys Ala Gln
1 5 10

<210> 9511
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<400> 9511

Ala Gln Leu Ala Ser Thr Phe Ser Pro Ala Gln
1   5   10

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<400> 9512

Ala Gln Leu Val Arg Leu Asn Thr Ser Ala Gln
1   5   10

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<400> 9513

Ala Gln Phe Gln Asp Leu Arg Ala Gln Ala Gln
1   5   10

<210> 9514
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<400> 9514

Ala Gln Ile Ser His Ser Pro Gln Thr Ala Gln
1   5   10

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<400> 9515

Ala Gln Phe Gln Asp Gly Gln Arg Glu Ala Gln
1 5 10

<210> 9516
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<400> 9516

Ala Gln Asp Thr Arg Glu Ala Phe Arg Ala Gln
1 5 10

<210> 9517
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<400> 9517

Ala Gln Leu Val Ala Asp Ala Arg Pro Ala Gln
1 5 10

<210> 9518
<211> 11
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<400> 9518

Ala Gln Ser Phe Ser Ser Gly Ala Gly Ala Gln
1 5 10

<210> 9519
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<400> 9519

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

<210> 9520
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<400> 9520

Ala Gln Lys Met Val Leu Asn Asn Ala Ala Gln
1   5   10

<210> 9521
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<400> 9521

Ala Gln Arg Lys Ile Asp Thr Met Ser Ala Gln
1   5   10

<210> 9522
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<400> 9522

Ala Gln Met Ser Gln Val Ile Thr Gly Ala Gln
1   5   10

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<400> 9523

Ala Gln Thr Tyr Asp Thr Arg Asn Thr Ala Gln
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<400> 9524

Ala Gln Tyr Arg Asp Gly Ser Gly Ser Ala Gln
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<400> 9525

Ala Gln Gly Asn Ile Ser Pro Ala Gly Ala Gln
1   5   10

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<400> 9526

Ala Gln Lys Ala Gly Leu Gly Leu Ser Ala Gln
1 5 10

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<400> 9527

Ala Gln Arg His Val Glu Lys Asp Thr Ala Gln
1 5 10

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<400> 9528

Ala Gln Lys Glu Val Arg Ala Asn Ala Ala Gln
1 5 10

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<400> 9529

Ala Gln Glu Ser Lys Pro Leu Pro Ala Ala Gln
1 5 10

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<400> 9530

Ala Gln Thr Leu Ser His Asn Ser Met Ala Gln
1   5   10

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<400> 9531

Ala Gln Val Gly Ser Tyr Thr Val Ser Ala Gln
1   5   10

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<400> 9532

Ala Gln Gln Ser Ala Thr Ser Leu Thr Ala Gln
1   5   10

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<400> 9533

Ala Gln His Ala Asn Gly Leu Arg Asp Ala Gln
1   5   10

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<400> 9534

Ala Gln Arg Met Ser His Asp Ser Pro Ala Gln
1 5 10

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<400> 9535

Ala Gln Lys His Ser Gly Leu Glu Ser Ala Gln
1 5 10

<210> 9536
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<400> 9536

Ala Gln Lys Leu Ser Thr Ala Ile Glu Ala Gln
1 5 10

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<400> 9537

Ala Gln Asn Ser Lys Gln Leu Leu Leu Ala Gln
1 5 10

<210> 9538
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<400> 9538

Ala Gln Ser Leu His Asn Asn Arg Val Ala Gln
1 5 10

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<400> 9539

Ala Gln Ser Ala Asp Arg Ser Ile Thr Ala Gln
1 5 10

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<400> 9540

Ala Gln Pro Thr Gly Arg Pro Gln Glu Ala Gln
1 5 10

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<400> 9541

Ala Gln Lys Thr Val Gln Glu Pro Leu Ala Gln
1 5 10

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<400> 9542

Ala Gln Ser Thr Lys Ala Leu Ser Asn Ala Gln
1 5 10

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<400> 9543

Ala Gln Ser Asn Gln Ser Thr Arg Ser Ala Gln
1 5 10

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<400> 9544

Ala Gln Gly Val Glu Gly Ser Ser Arg Ala Gln
1 5 10

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<400> 9545

Ala Gln Leu His Gln Gly Pro Ser Ser Ala Gln
1   5   10

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<400> 9546

Ala Gln Val Asp Ser Arg Asn Val Val Ala Gln
1   5   10

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<400> 9547

Ala Gln Leu Gly Lys Gln Thr Ala Leu Ala Gln
1   5   10

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<400> 9548

Ala Gln Ser Gly Asn Arg Thr Asn Met Ala Gln
1   5   10

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<400> 9549

Ala Gln Val Lys Gly Tyr Ala Ser Thr Ala Gln
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<400> 9550

Ala Gln Ala Ser Val Ser Ser Ser Ser Ala Gln
1 5 10

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<400> 9551

Ala Gln Leu Gln Leu Lys Ser Gly Met Ala Gln
1 5 10

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<400> 9552

Ala Gln Asp Met Arg Ala Ser Gly Ser Ala Gln
1 5 10

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<400> 9553

Ala Gln Leu Thr Ala Thr Leu Pro Tyr Ala Gln
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<400> 9554

Ala Gln Ser Asn Ala Pro Asn Ser Tyr Ala Gln
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<400> 9555

Ala Gln Lys Val Glu Ser Ser Arg Ala Ala Gln
1   5   10

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<400> 9556

Ala Gln Trp Ser Asn Ser Thr Thr Val Ala Gln

1 5 10

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<400> 9557

Ala Gln Ser Leu Ile His Thr Arg Pro Ala Gln
1 5 10

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<400> 9558

Ala Gln Thr Leu Ser Ser Pro His Asn Ala Gln
1 5 10

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<400> 9559

Ala Gln Val Pro Arg Phe Asn Gly Asn Ala Gln
1 5 10

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<400> 9560

Ala Gln Phe Asn His Ser Gly Ser Gly Ala Gln
1 5 10

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<400> 9561

Ala Gln Trp Val Asp Thr Asn Ser Lys Ala Gln
1 5 10

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<400> 9562

Ala Gln His Ser Asp Gly Ser Arg Leu Ala Gln
1 5 10

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<400> 9563

Ala Gln Arg Gln Ala Val Gln Thr Ser Ala Gln
1 5 10

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<400> 9564

Ala Gln Met His Ser Gly Ile Pro Thr Ala Gln
1   5   10

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<400> 9565

Ala Gln Val Lys Asp Gln Gly Arg Ser Ala Gln
1   5   10

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<400> 9566

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

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<400> 9567

Ala Gln Val Ser Lys Ser Ala Ala Leu Ala Gln
1   5   10

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<400> 9568

Ala Gln Lys Asp Ser His Leu Ser Ser Ala Gln
1 5 10

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<400> 9569

Ala Gln Val Gly Val Arg Met Thr Gly Ala Gln
1 5 10

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<400> 9570

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

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<400> 9571

Ala Gln Gly Ser Glu Leu Arg Thr Gly Ala Gln
1 5 10

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<400> 9572

Ala Gln Met Lys Leu Ser Thr Ser Ser Ala Gln
1 5 10

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<400> 9573

Ala Gln Gln Ala Tyr Asn Ile Val Pro Ala Gln
1 5 10

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<400> 9574

Ala Gln Val Gly Gly Asn Ile Arg Thr Ala Gln
1 5 10

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<400> 9575

Ala Gln Ser Tyr Gln Gln Thr Leu Gly Ala Gln
1   5   10

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<400> 9576

Ala Gln Met Arg Pro Thr Pro Thr Asp Ala Gln
1   5   10

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<400> 9577

Ala Gln Arg Lys Ala Asn Asp Leu Asn Ala Gln
1   5   10

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<400> 9578

Ala Gln Ile Ser Gly Thr Ala Ser Thr Ala Gln
1   5   10

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<400> 9579

Ala Gln Tyr Val Gln Leu Asn Asn Ala Ala Gln
1 5 10

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<400> 9580

Ala Gln Thr Glu Lys Gly Trp Gly Pro Ala Gln
1 5 10

<210> 9581
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<400> 9581

Ala Gln Ser Pro Gln Arg His Asn Ser Ala Gln
1 5 10

<210> 9582
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<400> 9582

Ala Gln Tyr Thr His Met Thr Glu Arg Ala Gln
1 5 10

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<400> 9583

Ala Gln Asp Arg Ser Met Gln Gln Ala Ala Gln
1   5   10

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<400> 9584

Ala Gln Asp Thr Met Asn Ala Met Arg Ala Gln
1   5   10

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<400> 9585

Ala Gln Leu Lys Pro Gly His Met Val Ala Gln
1   5   10

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<400> 9586

Ala Gln Gln Phe Asn Ser Lys Asp Thr Ala Gln
1   5   10

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<400> 9587

Ala Gln Trp Thr Asn Ser Arg Pro Met Ala Gln
1 5 10

<210> 9588
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<400> 9588

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

<210> 9589
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<400> 9589

Ala Gln Gln Arg Ala Ser Ser Gly Ser Ala Gln
1 5 10

<210> 9590
<211> 11
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<400> 9590

Ala Gln Pro Lys Glu Ser Asn Asn Met Ala Gln
1 5 10

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<400> 9591

Ala Gln Ala Lys His Val Ala Thr Glu Ala Gln
1   5   10

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<400> 9592

Ala Gln Thr Gln Ser Ser Thr Tyr Ser Ala Gln
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<400> 9593

Ala Gln Pro Arg Thr Ser Thr Asn Ile Ala Gln
1   5   10

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<400> 9594

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

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<400> 9595

Ala Gln Gly Pro Leu Gln Thr Asn Ala Ala Gln
1 5 10

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Ala Gln Lys Val Ser Ala Met Ser Asp Ala Gln
1 5 10

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<400> 9597

Ala Gln Ala Gly Lys Tyr Val Asn Ser Ala Gln
1 5 10

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<400> 9598

Ala Gln Pro Lys Ser Gly Ser Pro Ser Ala Gln
1   5   10

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<400> 9599

Ala Gln Phe Ile Ser Asn Gly Ser Ser Ala Gln
1   5   10

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<400> 9600

Ala Gln Asn Leu Asn Ala Met His Lys Ala Gln
1   5   10

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<400> 9601

Ala Gln Glu Ser His Ala Arg Glu Gly Ala Gln
1   5   10

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<400> 9602

Ala Gln Thr Val Val Gly Val Arg Gly Ala Gln
1 5 10

<210> 9603
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<400> 9603

Ala Gln Ala Lys Ala Thr Val Pro Ser Ala Gln
1 5 10

<210> 9604
<211> 11
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<400> 9604

Ala Gln Thr Lys Thr Val Asn Met Thr Ala Gln
1 5 10

<210> 9605
<211> 11
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<400> 9605

Ala Gln Gln Ser Ser Leu Lys Leu Thr Ala Gln
1 5 10

<210> 9606
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<400> 9606

Ala Gln Asn Ala Gln Arg Thr Gly Pro Ala Gln
1   5   10

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<400> 9607

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

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<400> 9608

Ala Gln Gly Asn Gln Asn Thr Leu Leu Ala Gln
1   5   10

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<400> 9609

Ala Gln Thr Arg Val Ser Gly Ser Ala Ala Gln

1 5 10

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<400> 9610

Ala Gln Val Thr Thr Ala Met Met Ser Ala Gln
1 5 10

<210> 9611
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<400> 9611

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

<210> 9612
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<400> 9612

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

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<400> 9613

Ala Gln Pro Gln Ala Ser Gln Ala Asn Ala Gln
1 5 10

<210> 9614
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<400> 9614

Ala Gln Thr Ala Arg Asn Val Pro Asn Ala Gln
1 5 10

<210> 9615
<211> 11
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<400> 9615

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

<210> 9616
<211> 11
<212> PRT
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<220>
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<400> 9616

Ala Gln Leu Gln Asp Lys Thr Leu Asn Ala Gln
1 5 10

<210> 9617
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<400> 9617

Ala Gln Tyr Arg Gly Glu Asn Asn Pro Ala Gln
1   5   10

<210> 9618
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<400> 9618

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

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<400> 9619

Ala Gln Val Leu Lys Asp Asp Gly His Ala Gln
1   5   10

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<400> 9620

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

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<400> 9621

Ala Gln Glu Phe Gln Arg Met His Pro Ala Gln
1   5   10

<210> 9622
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<400> 9622

Ala Gln Ile Ser Pro Met Ser Thr Ser Ala Gln
1   5   10

<210> 9623
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<400> 9623

Ala Gln Leu Gly His Asp His Ala Thr Ala Gln
1   5   10

<210> 9624
<211> 11
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<400> 9624

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

<210> 9625
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<400> 9625

Ala Gln Lys Phe Arg Gly Glu Glu Pro Ala Gln
1   5   10

<210> 9626
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<400> 9626

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

<210> 9627
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<400> 9627

Ala Gln Trp Glu Arg Ser Gln Leu Ser Ala Gln
1   5   10

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<400> 9628

Ala Gln Gln Gln Lys Ala Ala Asn Gly Ala Gln
1   5   10

<210> 9629
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<400> 9629

Ala Gln Tyr Thr Leu Ser Leu Ser Ser Ala Gln
1   5   10

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Ala Gln Gly Leu Ile Pro Asn Asn Ser Ala Gln
1   5   10

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<400> 9631

Ala Gln Ser Val Pro Val Ser Arg Thr Ala Gln
1   5   10

<210> 9632
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<400> 9632

Ala Gln Asn Lys Gln Gln Ser Gln Thr Ala Gln
1 5 10

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<400> 9633

Ala Gln Ser Lys His Ser Val Gln Val Ala Gln
1 5 10

<210> 9634
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<400> 9634

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

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<400> 9635

Ala Gln Gln Glu Tyr Arg Asn Thr Leu Ala Gln
1 5 10

<210> 9636
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<400> 9636

Ala Gln Phe Glu Arg Asp Arg Met Gly Ala Gln
1   5   10

<210> 9637
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<400> 9637

Ala Gln Ser Thr Ser Ser Asn Leu Ser Ala Gln
1   5   10

<210> 9638
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Ala Gln Arg Ser Leu Glu Gly Ile Val Ala Gln
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<400> 9639

Ala Gln Gly Asn Ser Arg Leu Asp Pro Ala Gln
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<400> 9640

Ala Gln Ile Asp Thr Ile Gly Lys Ala Ala Gln
1 5 10

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<400> 9641

Ala Gln Leu Asp His Thr Ser Arg Ala Ala Gln
1 5 10

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<400> 9642

Ala Gln Trp Gly Gln Thr Asn Ser Ser Ala Gln
1 5 10

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<400> 9643

Ala Gln Ala Arg Gly Asn Leu Ser Ser Ala Gln
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<400> 9644

Ala Gln Asp Asn Met Lys Leu His Val Ala Gln
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<400> 9645

Ala Gln Glu Lys Thr Gln Gln Ser Tyr Ala Gln
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<400> 9646

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

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<400> 9647

Ala Gln Val Val Ser His Arg Pro Ala Ala Gln
1   5   10

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<400> 9648

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

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<400> 9649

Ala Gln Asp His Ser His Gly Arg Asp Ala Gln
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<400> 9650

Ala Gln Ser Thr His Gln Val Ala Asn Ala Gln
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<400> 9651

Ala Gln Asn Gln Ser Ala Ser Ser Arg Ala Gln
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<400> 9652

Ala Gln Val Thr Val Gly Ser His Met Ala Gln
1   5   10

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<400> 9653

Ala Gln Ser Ser Asn Ile Ala Gln Asn Ala Gln
1   5   10

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<400> 9654

Ala Gln Leu Asn Glu Met Ala Thr Pro Ala Gln
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<400> 9655

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

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Ala Gln Tyr Ser Thr Gly Lys Asp Ala Ala Gln
1 5 10

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<400> 9658

Ala Gln Thr Gln Gly Ile Val Thr Ser Ala Gln
1 5 10

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<400> 9659

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

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<400> 9660

Ala Gln Thr Ala Gly Met Ser Ser Arg Ala Gln
1   5   10

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<400> 9661

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

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<400> 9662

Ala Gln Lys Thr Asn Ala Asp Tyr Gly Ala Gln

1 5 10

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<400> 9663

Ala Gln Val Asn Pro His Arg Thr Met Ala Gln
1 5 10

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<400> 9664

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

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<400> 9665

Ala Gln Arg Glu Val Ser Ser Thr Ser Ala Gln
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<400> 9666

Ala Gln Val Ser Gln Gly Thr Arg Val Ala Gln
1 5 10

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<400> 9667

Ala Gln Lys Thr Pro Ile Met His Ala Ala Gln
1 5 10

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<400> 9668

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

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<400> 9669

Ala Gln Val Leu Asn Ser Ser Met Thr Ala Gln
1 5 10

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<400> 9670

Ala Gln Phe Arg Thr Val Thr Gln Ala Ala Gln
1   5   10

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<400> 9671

Ala Gln Thr Gly Ala Met Asn Met Thr Ala Gln
1   5   10

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<400> 9672

Ala Gln Leu Lys Thr Gln Asn Tyr Ser Ala Gln
1   5   10

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<400> 9673

Ala Gln Gln Lys Thr Met Leu Thr Ala Ala Gln
1   5   10

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<400> 9674

Ala Gln Ser Asn Ile Ile Gly Ser Asp Ala Gln
1   5   10

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<400> 9675

Ala Gln Ser Val Ser Val Ser Lys Met Ala Gln
1   5   10

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<400> 9676

Ala Gln Ala Ala Gln Val Ser His Ala Ala Gln
1   5   10

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<400> 9677

Ala Gln Ile Asn Val Val Glu Lys Ala Ala Gln
1   5   10

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<400> 9678

Ala Gln Met Leu Arg Gly Asp Leu Pro Ala Gln
1 5 10

<210> 9679
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<400> 9679

Ala Gln Asn Leu Pro Thr Met Gln Pro Ala Gln
1 5 10

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<400> 9680

Ala Gln Phe Gln Asp Lys Ile Asn Arg Ala Gln
1 5 10

<210> 9681
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<400> 9681

Ala Gln Ser Arg Gln Thr Ile Glu Thr Ala Gln
1   5   10

<210> 9682
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<400> 9682

Ala Gln Leu His Ser Lys Leu Asn Gly Ala Gln
1   5   10

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<400> 9683

Ala Gln Thr Pro Ser Ala Ser Asn Met Ala Gln
1   5   10

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<400> 9684

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

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<400> 9685

Ala Gln Ser Pro Tyr Asn Gln Asn Asn Ala Gln
1 5 10

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<211> 11
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<400> 9686

Ala Gln Ser Gly Lys Gln Gln Thr Thr Ala Gln
1 5 10

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<400> 9687

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

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<400> 9688

Ala Gln Pro Asn Leu Thr Thr Glu Arg Ala Gln
1 5 10

<210> 9689
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<400> 9689

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

<210> 9690
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<400> 9690

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

<210> 9691
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<400> 9691

Ala Gln Leu Arg Asp Thr Arg Thr Asp Ala Gln
1   5   10

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<400> 9692

Ala Gln Leu Gln Gln Ala Gln Pro Gln Ala Gln
1   5   10

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<400> 9693

Ala Gln Tyr Ser Pro His Val Thr Pro Ala Gln
1 5 10

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<400> 9694

Ala Gln Leu Gln Ile Lys Thr Ser Pro Ala Gln
1 5 10

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<400> 9695

Ala Gln Arg Val Pro Pro Asn Leu Gln Ala Gln
1 5 10

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<400> 9696

Ala Gln Leu Ala Glu His Pro Lys Thr Ala Gln
1 5 10

<210> 9697
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<220>
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<400> 9697

Ala Gln Ile Ala Ala Arg Ser Pro Leu Ala Gln
1   5   10

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<400> 9698

Ala Gln Ser Gly Lys Gln His Glu Asp Ala Gln
1   5   10

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<400> 9699

Ala Gln Ile Gly Asn Leu Gln Ala Thr Ala Gln
1   5   10

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<400> 9700

Ala Gln Pro Asp Ala Ser Gln Arg Val Ala Gln
1 5 10

<210> 9701
<211> 11
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<400> 9701

Ala Gln Ala Val Asp Arg Met Thr Pro Ala Gln
1 5 10

<210> 9702
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<400> 9702

Ala Gln Phe Gly Arg Glu Lys Pro Ala Ala Gln
1 5 10

<210> 9703
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<400> 9703

Ala Gln Leu Asn Asn Arg Pro Gln Leu Ala Gln
1 5 10

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<400> 9704

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

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<400> 9705

Ala Gln Gly Val Arg Leu Ser Ser Thr Ala Gln
1   5   10

<210> 9706
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<400> 9706

Ala Gln Thr Val Asn Ser His Arg Gln Ala Gln
1   5   10

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<400> 9707

Ala Gln Asn Ser Asn His Thr Pro Arg Ala Gln
1   5   10

<210> 9708
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<213> Artificial Sequence

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<400> 9708

Ala Gln Ala Asn Thr Ile Thr Val Val Ala Gln
1 5 10

<210> 9709
<211> 11
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<400> 9709

Ala Gln Asp Val Thr Gln Ser Lys Pro Ala Gln
1 5 10

<210> 9710
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<400> 9710

Ala Gln Gly Asn His Ala Arg Asn Leu Ala Gln
1 5 10

<210> 9711
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<400> 9711

Ala Gln Gln His Arg Asp Thr Ser Met Ala Gln
1 5 10

<210> 9712
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<400> 9712

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

<210> 9713
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<400> 9713

Ala Gln Ile Ser Met Arg Glu Gln Ser Ala Gln
1 5 10

<210> 9714
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<400> 9714

Ala Gln Thr Arg Asn Phe Asp His Thr Ala Gln
1 5 10

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<400> 9715

Ala Gln Ala Ser His Arg Ala Gln Ile Ala Gln

1 5 10

<210> 9716
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<400> 9716

Ala Gln Asn Gln Gln Ser Pro His Lys Ala Gln
1 5 10

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<400> 9717

Ala Gln Arg Pro Gly Glu Ser Asn Pro Ala Gln
1 5 10

<210> 9718
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<400> 9718

Ala Gln Ala Arg Asp Ser Ser Ile Met Ala Gln
1 5 10

<210> 9719
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<400> 9719

Ala Gln Thr Gly Met Ser Thr Gln Val Ala Gln
1 5 10

<210> 9720
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<400> 9720

Ala Gln Met Gly Val Lys Ala Asp Ile Ala Gln
1 5 10

<210> 9721
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<400> 9721

Ala Gln Gln Phe Lys Gly Ile Thr Gln Ala Gln
1 5 10

<210> 9722
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<400> 9722

Ala Gln His Asn Asn Ser Pro Thr His Ala Gln
1 5 10

<210> 9723
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<400> 9723

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

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<400> 9724

Ala Gln Ala Val Pro His Met Gly Thr Ala Gln
1   5   10

<210> 9725
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<400> 9725

Ala Gln Val Val Ser Pro Asn Leu Met Ala Gln
1   5   10

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<400> 9726

Ala Gln Pro Phe Pro Lys Thr Leu Asp Ala Gln
1   5   10

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<400> 9727

Ala Gln Gln Ser Ala Gly Leu Ala Glu Ala Gln
1   5   10

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<400> 9728

Ala Gln Gly Lys Ala His Asp Leu Ala Ala Gln
1   5   10

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<400> 9729

Ala Gln Gln Arg Ile Ser Thr Asn Ala Ala Gln
1   5   10

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<400> 9730

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

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<400> 9731

Ala Gln Tyr Arg Ala Gln Gly Pro Leu Ala Gln
1 5 10

<210> 9732
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<220>
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<400> 9732

Ala Gln Val Met Lys Arg Tyr Asp Glu Ala Gln
1 5 10

<210> 9733
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<400> 9733

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

<210> 9734
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<400> 9734

Ala Gln Leu Gln Lys Val His Leu Gly Ala Gln
1   5   10

<210> 9735
<211> 11
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<220>
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<400> 9735

Ala Gln Arg Ser His Ser His Pro Ser Ala Gln
1   5   10

<210> 9736
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<400> 9736

Ala Gln His Thr Phe Thr Ser Thr Gly Ala Gln
1   5   10

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<400> 9737

Ala Gln Ser Val Gly Ser Gly Pro Gly Ala Gln
1   5   10

<210> 9738
<211> 11
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<400> 9738

Ala Gln Gln Ser Phe Asn Gly Ser Asn Ala Gln
1 5 10

<210> 9739
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<400> 9739

Ala Gln Val Thr Ala Ile Arg Gly Ala Ala Gln
1 5 10

<210> 9740
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<400> 9740

Ala Gln Leu Gly Lys Thr Ser Tyr Ser Ala Gln
1 5 10

<210> 9741
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<400> 9741

Ala Gln Ser Thr Met Ala Met Ala Ser Ala Gln
1 5 10

<210> 9742
<211> 11
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<400> 9742

Ala Gln Ala Ser Gly Arg Ser Ser Ala Ala Gln
1   5   10

<210> 9743
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<400> 9743

Ala Gln Gly Arg Thr Pro Ala Val Glu Ala Gln
1   5   10

<210> 9744
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<400> 9744

Ala Gln Gly Arg Ile Asp Val Ser Ser Ala Gln
1   5   10

<210> 9745
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<400> 9745

Ala Gln Thr Pro Lys Val Asn Ser Ser Ala Gln
1   5   10

<210> 9746

<211> 11
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<400> 9746

Ala Gln Ser Val Arg Asn Ser Thr Thr Ala Gln
1 5 10

<210> 9747
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<400> 9747

Ala Gln Val Asn Gly Ala Gln Gln Ile Ala Gln
1 5 10

<210> 9748
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<400> 9748

Ala Gln Asn Arg Ala Glu Ser Phe Arg Ala Gln
1 5 10

<210> 9749
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<400> 9749

Ala Gln His Asp Arg Ala Ser Val Arg Ala Gln
1 5 10

<210> 9750
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<400> 9750

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

<210> 9751
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<400> 9751

Ala Gln Ser Asn Asn Ile His Ser Lys Ala Gln
1   5   10

<210> 9752
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<400> 9752

Ala Gln Ile Asn Asn Ile Val Ile Pro Ala Gln
1   5   10

<210> 9753
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<400> 9753

Ala Gln Ile Arg Ser Ser Asp Glu Thr Ala Gln
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<400> 9754

Ala Gln Asn Met Pro Ser Leu Val Ala Ala Gln
1 5 10

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<400> 9755

Ala Gln Asn Arg Thr Leu Glu Ser Ile Ala Gln
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<400> 9756

Ala Gln Pro Gln His Asn Asn Gln Pro Ala Gln
1 5 10

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<400> 9757

Ala Gln Leu Gly Tyr Asn Ala His Pro Ala Gln
1 5 10

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<400> 9758

Ala Gln Leu Lys His Gln Tyr Asp Gly Ala Gln
1 5 10

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<400> 9759

Ala Gln His Tyr Ser Pro Thr Arg Glu Ala Gln
1 5 10

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<400> 9760

Ala Gln Ser Tyr Arg Ser Thr Ser Asp Ala Gln
1 5 10

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<400> 9761

Ala Gln Val Thr Pro Thr Ala Ala Leu Ala Gln
1   5   10

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<400> 9762

Ala Gln Leu Glu Gln Arg Tyr Ser Ser Ala Gln
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<400> 9763

Ala Gln Met Asn Asn Ile Arg Gln Ser Ala Gln
1   5   10

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<400> 9764

Ala Gln Ser Ser Arg Asn Asp Ala Ser Ala Gln
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<400> 9765

Ala Gln Gly Thr Asp Arg Lys Pro Phe Ala Gln
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<400> 9766

Ala Gln Arg Val Asn Lys Glu Asp Arg Ala Gln
1 5 10

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<400> 9767

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

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<400> 9768

Ala Gln Met Lys Ser Ser Thr Ser Asn Ala Gln

1 5 10

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<400> 9769

Ala Gln Arg His Asp Leu Ala Ser Asn Ala Gln
1 5 10

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<400> 9770

Ala Gln Leu Met Ala Val Ser Thr Pro Ala Gln
1 5 10

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<400> 9771

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

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<400> 9772

Ala Gln Asp Asn Lys Gly Ser Leu Ser Ala Gln
1 5 10

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<400> 9773

Ala Gln Lys Gly Gln Val Thr His Gly Ala Gln
1 5 10

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<400> 9774

Ala Gln Ser Lys Thr Leu Asn Asn Leu Ala Gln
1 5 10

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<400> 9775

Ala Gln Arg Asn Pro Gln Val Pro Thr Ala Gln
1 5 10

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<400> 9776

Ala Gln Ser Ala Asn Ala Ser Asn Thr Ala Gln
1   5   10

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<400> 9777

Ala Gln Gly Tyr Met Lys Pro Ala Ile Ala Gln
1   5   10

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<400> 9778

Ala Gln Ser Ser His Gly Pro Thr Pro Ala Gln
1   5   10

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<400> 9779

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

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<400> 9780

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

<210> 9781
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<400> 9781

Ala Gln Gly Ala Ala Lys Ser Gln Asn Ala Gln
1 5 10

<210> 9782
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<400> 9782

Ala Gln Leu Pro Thr Leu His Gly Pro Ala Gln
1 5 10

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<400> 9783

Ala Gln Val Pro Ser Thr Ile Lys Gly Ala Gln
1 5 10

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<400> 9784

Ala Gln Thr Ser Ser Met Arg Glu Ser Ala Gln
1 5 10

<210> 9785
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<400> 9785

Ala Gln Leu Met Ser Ser Asn Asn Ala Ala Gln
1 5 10

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<400> 9786

Ala Gln Ala Lys Thr Gln Ser Ala Thr Ala Gln
1 5 10

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<400> 9787

Ala Gln Lys Glu Gly Gln Ser Arg Tyr Ala Gln
1   5   10

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<400> 9788

Ala Gln Lys Val Asn Ser Ser Ala Thr Ala Gln
1   5   10

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<400> 9789

Ala Gln Arg Thr Thr Ser Leu Val Ala Ala Gln
1   5   10

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<400> 9790

Ala Gln Met Thr Asn Gln Ser Ala His Ala Gln
1   5   10

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<400> 9791

Ala Gln Pro His Ile Arg Gly Glu Asn Ala Gln
1 5 10

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<400> 9792

Ala Gln Arg Thr Gln Ser Ser Ile Ser Ala Gln
1 5 10

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<400> 9793

Ala Gln Met Phe Thr Thr Thr Gly Ala Ala Gln
1 5 10

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<400> 9794

Ala Gln Ser Asn Ile Lys Leu Met Ala Ala Gln
1 5 10

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<400> 9795

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

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<400> 9796

Ala Gln Ile Leu Ser Gly Arg Asn Gly Ala Gln
1   5   10

<210> 9797
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<400> 9797

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

<210> 9798
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<400> 9798

Ala Gln Thr Gly Ala Asn Leu Pro Asn Ala Gln
1   5   10

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<400> 9799

Ala Gln Tyr Ser Leu Ser Met Pro Asn Ala Gln
1 5 10

<210> 9800
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<400> 9800

Ala Gln Thr Phe Glu Arg Lys Ala Ala Ala Gln
1 5 10

<210> 9801
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<400> 9801

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

<210> 9802
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<400> 9802

Ala Gln Arg Thr Lys Thr Ser Asp Gly Ala Gln
1 5 10

<210> 9803
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<400> 9803

Ala Gln Leu Asn Pro His Leu Gly Pro Ala Gln
1   5   10

<210> 9804
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<400> 9804

Ala Gln Ile Met Pro Asn Asn Thr Met Ala Gln
1   5   10

<210> 9805
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<400> 9805

Ala Gln His Lys Ser Asp Ser Gly Tyr Ala Gln
1   5   10

<210> 9806
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<400> 9806

Ala Gln Asp Arg Leu Asn Lys Asn Ser Ala Gln
1 5 10

<210> 9807
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<400> 9807

Ala Gln Met Ser Gly Gly Ser Ser Lys Ala Gln
1 5 10

<210> 9808
<211> 11
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<400> 9808

Ala Gln Gln Arg Glu Gln Gly Asn Ala Ala Gln
1 5 10

<210> 9809
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<400> 9809

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

<210> 9810
<211> 11
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<400> 9810

Ala Gln Asn Leu Lys Asn Ala Tyr Val Ala Gln
1   5   10

<210> 9811
<211> 11
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<400> 9811

Ala Gln Ser Lys Asn Asp Arg Pro Gly Ala Gln
1   5   10

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<211> 11
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<400> 9812

Ala Gln Arg Gly Ser Gly Gln Asp Ile Ala Gln
1   5   10

<210> 9813
<211> 11
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<400> 9813

Ala Gln Val Gly Ser Asn Thr Ser Tyr Ala Gln
1   5   10

<210> 9814
<211> 11
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<400> 9814

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

<210> 9815
<211> 11
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<400> 9815

Ala Gln Gly Thr Leu Lys Glu Thr Ser Ala Gln
1 5 10

<210> 9816
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<400> 9816

Ala Gln Ser Ile Gln Arg Thr Val Ala Ala Gln
1 5 10

<210> 9817
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<400> 9817

Ala Gln Arg Gly Glu Ser Asn Gly Thr Ala Gln
1 5 10

<210> 9818
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<400> 9818

Ala Gln Glu Pro Ser Asn Ala Arg Val Ala Gln
1   5   10

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<400> 9819

Ala Gln Ser Gln Ala Thr Met Asn Lys Ala Gln
1   5   10

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<400> 9820

Ala Gln Ala Gln Gly Thr Ser Thr Thr Ala Gln
1   5   10

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<400> 9821

Ala Gln Tyr Met Ser Lys Asn Asn Leu Ala Gln

1 5 10

<210> 9822
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<400> 9822

Ala Gln Asn Thr Thr Asn Met Ser Lys Ala Gln
1 5 10

<210> 9823
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<400> 9823

Ala Gln Ser Lys Ala Ser Lys Thr Glu Ala Gln
1 5 10

<210> 9824
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<400> 9824

Ala Gln Met Ala Gly Ser Ile Val Thr Ala Gln
1 5 10

<210> 9825
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<400> 9825

Ala Gln Val Asn Ser Ser Gln Thr Pro Ala Gln
1 5 10

<210> 9826
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<400> 9826

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

<210> 9827
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<400> 9827

Ala Gln Gly Ile Ser Tyr Ser Pro Ser Ala Gln
1 5 10

<210> 9828
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<400> 9828

Ala Gln His Gly Arg Glu Val Pro Gln Ala Gln
1 5 10

<210> 9829
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<400> 9829

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

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<400> 9830

Ala Gln Ser Gly Asn Ser Ser Arg Gly Ala Gln
1   5   10

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<400> 9831

Ala Gln Thr Thr Lys Gly Asn Pro Ser Ala Gln
1   5   10

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<400> 9832

Ala Gln Asp Met Arg Ser Thr Arg Asp Ala Gln
1   5   10

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<400> 9833

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

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<400> 9834

Ala Gln Leu Thr Ser Met Ser Ile Pro Ala Gln
1 5 10

<210> 9835
<211> 11
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<400> 9835

Ala Gln Gly Thr His Ile Lys Gln Ala Ala Gln
1 5 10

<210> 9836
<211> 11
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<400> 9836

Ala Gln Thr Gln Gly Arg Ile Val Ser Ala Gln
1 5 10

<210> 9837
<211> 11
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<400> 9837

Ala Gln Leu Gly Gly Asn Asn Thr Leu Ala Gln
1   5   10

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<400> 9838

Ala Gln Met Ser Ala Asn Asn Gly Arg Ala Gln
1   5   10

<210> 9839
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<400> 9839

Ala Gln Val Thr Asn Pro Met Ser Ala Ala Gln
1   5   10

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<400> 9840

Ala Gln Glu Ala Tyr Lys Ser Thr Ser Ala Gln
1   5   10

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<400> 9841

Ala Gln Arg Pro Asn Asn Gln Gly Gln Ala Gln
1   5   10

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<400> 9842

Ala Gln Met Asn Phe Ala Gly Ser Gly Ala Gln
1   5   10

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<400> 9843

Ala Gln Lys Thr Asn His Ser Ser Ser Ala Gln
1   5   10

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<400> 9844

Ala Gln Asn Gly Tyr Gly Ser Gln Thr Ala Gln
1 5 10

<210> 9845
<211> 11
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<400> 9845

Ala Gln Lys Thr Gly His Gln Phe Thr Ala Gln
1 5 10

<210> 9846
<211> 11
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<400> 9846

Ala Gln Thr Ala Arg Thr Leu Gln Leu Ala Gln
1 5 10

<210> 9847
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<400> 9847

Ala Gln Gln Ala Ser Thr Thr Gln Ile Ala Gln
1 5 10

<210> 9848
<211> 11
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<220>
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<400> 9848

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

<210> 9849
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<400> 9849

Ala Gln Val Asn Ser His Val Ala Arg Ala Gln
1   5   10

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<400> 9850

Ala Gln Ser Pro Leu His Ser Asn Thr Ala Gln
1   5   10

<210> 9851
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<400> 9851

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

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<400> 9852

Ala Gln Thr Gln His Asn Val Asp Ser Ala Gln
1   5   10

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<400> 9853

Ala Gln Thr Phe Gln Thr Ser Asn Ser Ala Gln
1   5   10

<210> 9854
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<400> 9854

Ala Gln Ser Asn His Val Ser Val Asn Ala Gln
1   5   10

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<400> 9855

Ala Gln Met Leu His Ser Ser Ile Thr Ala Gln
1   5   10

<210> 9856
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<400> 9856

Ala Gln Leu Lys Ala Thr Asp Gly Ser Ala Gln
1   5   10

<210> 9857
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<400> 9857

Ala Gln Leu Gly Asn Met His Asn Met Ala Gln
1   5   10

<210> 9858
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<400> 9858

Ala Gln Ile Asn Arg Leu Ile Ser Gly Ala Gln
1   5   10

<210> 9859
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<213> Artificial Sequence

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<400> 9859

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

<210> 9860
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<400> 9860

Ala Gln His Ser Asn Gly Val Arg Gly Ala Gln
1   5   10

<210> 9861
<211> 11
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<220>
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<400> 9861

Ala Gln Ala Gly Asn Pro Arg Glu Lys Ala Gln
1   5   10

<210> 9862
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<400> 9862

Ala Gln Arg Ala Arg Asp Val Asp Glu Ala Gln
1   5   10

<210> 9863
<211> 11
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<400> 9863

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

<210> 9864
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<400> 9864

Ala Gln Ala Asn Gln Arg Gly Val Gly Ala Gln
1   5   10

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<400> 9865

Ala Gln Met Arg Ser Glu Thr Leu Asn Ala Gln
1   5   10

<210> 9866
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<400> 9866

Ala Gln Lys Pro Ser Ser Gln Leu Leu Ala Gln
1   5   10

<210> 9867
<211> 11
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<400> 9867

Ala Gln Ser Leu Arg Pro His Asp Arg Ala Gln
1 5 10

<210> 9868
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<220>
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<400> 9868

Ala Gln Gly Ser Asn Ala Ser Lys Tyr Ala Gln
1 5 10

<210> 9869
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Ala Gln Thr Asn Arg Asp Leu Gly Pro Ala Gln
1 5 10

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<400> 9870

Ala Gln Trp Gly Ser Thr Ala Gly Ala Ala Gln
1 5 10

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<400> 9871

Ala Gln Ile Ser Gly Ala Asp Arg Thr Ala Gln
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<400> 9872

Ala Gln Ser Ala Val Arg Ser Pro Ile Ala Gln
1   5   10

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<400> 9873

Ala Gln Arg Val Ser His Thr Glu Thr Ala Gln
1   5   10

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<400> 9874

Ala Gln Lys Ala Asn Ser Gln Ile Thr Ala Gln

1 5 10

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<400> 9875

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

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<400> 9876

Ala Gln Thr Thr Asn Phe Val Thr Ser Ala Gln
1 5 10

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<400> 9877

Ala Gln Asn Leu Met Pro Thr Asp Arg Ala Gln
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<400> 9878

Ala Gln Thr Asn His Thr Gly Ser Gln Ala Gln
1 5 10

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<400> 9879

Ala Gln His Trp Asn Gly Thr Asn Pro Ala Gln
1 5 10

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<400> 9880

Ala Gln His Lys Ser Ile Gly Gln Glu Ala Gln
1 5 10

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<400> 9881

Ala Gln Thr Arg Pro Ile Pro Ile Ser Ala Gln
1 5 10

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<400> 9882

Ala Gln Asn Pro Gly Met Ser Arg Met Ala Gln
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<400> 9883

Ala Gln Ile Ala Asn Arg Val Ser Pro Ala Gln
1   5   10

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<400> 9884

Ala Gln Thr Ala Leu Ala Asn Gln Lys Ala Gln
1   5   10

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<400> 9885

Ala Gln Thr Ser Leu Ser Ser Ser Ala Ala Gln
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<400> 9886

Ala Gln Ala Leu Thr Gly Asn Met Ser Ala Gln
1   5   10

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<400> 9887

Ala Gln Met Gln Thr Lys Asn Val Pro Ala Gln
1   5   10

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<400> 9888

Ala Gln Gln Ala Thr Lys Thr Asn Val Ala Gln
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<400> 9889

Ala Gln Leu His Thr Thr Ser Ser Val Ala Gln
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<400> 9890

Ala Gln Tyr Val Gln Ser Ser Ser Asn Ala Gln
1 5 10

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<400> 9891

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

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<400> 9892

Ala Gln Lys Ser His Ser Pro Gly Ser Ala Gln
1 5 10

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<400> 9893

Ala Gln Lys Ala Val Asp Pro Pro Asn Ala Gln
1   5   10

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<400> 9894

Ala Gln Asn Ala Pro Pro Met Ser Pro Ala Gln
1   5   10

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<400> 9895

Ala Gln Ile Asn Lys Met Phe Thr Pro Ala Gln
1   5   10

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<400> 9896

Ala Gln Tyr Ala Lys Ala Thr Leu Gly Ala Gln
1   5   10

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<400> 9897

Ala Gln His Leu Ala Arg Pro Ser Glu Ala Gln
1 5 10

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<400> 9898

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

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<400> 9899

Ala Gln Met Arg Pro Asp Thr Ser Tyr Ala Gln
1 5 10

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<400> 9900

Ala Gln Gly Val Ala Met Ser Ser Gly Ala Gln
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<400> 9901

Ala Gln Gly His Ser Arg Pro Asp Arg Ala Gln
1   5   10

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<400> 9902

Ala Gln Val Phe Gln Ala Thr Arg Thr Ala Gln
1   5   10

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<400> 9903

Ala Gln Thr Ser Leu Thr Ser Tyr Thr Ala Gln
1   5   10

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<400> 9904

Ala Gln Lys Leu Asn Thr Gly Asp Ile Ala Gln
1   5   10

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<400> 9905

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

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<400> 9906

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

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<400> 9907

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

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<400> 9908

Ala Gln Ser Asn Thr Thr Phe Ser Ala Ala Gln
1 5 10

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<400> 9909

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

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<400> 9910

Ala Gln Val Gly Ser Gly Gly Ser Arg Ala Gln
1 5 10

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<400> 9911

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

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<400> 9912

Ala Gln Met Ala Gly Gln Gln Arg Leu Ala Gln
1   5   10

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<400> 9913

Ala Gln Ile Arg Asn Ser Ala Pro Pro Ala Gln
1   5   10

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<400> 9914

Ala Gln Leu Ser Thr Lys Ser Phe Asn Ala Gln
1   5   10

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<400> 9915

Ala Gln Trp Pro Gly Ser Ile Thr Ala Ala Gln
1   5   10

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<400> 9916

Ala Gln Thr Gly Gly Val His Ala Gln Ala Gln
1   5   10

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<400> 9917

Ala Gln Ser Glu Arg Ser Ser Met Ala Ala Gln
1   5   10

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<400> 9918

Ala Gln Phe Gln Asn Gly Arg Asn Asn Ala Gln
1   5   10

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<400> 9919

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

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<400> 9920

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

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<400> 9921

Ala Gln Ser Lys Lys Ile Asp His Gly Ala Gln
1 5 10

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<400> 9922

Ala Gln Tyr Arg Asp Thr Leu Ala Ala Ala Gln
1 5 10

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<400> 9923

Ala Gln Leu His Ser Gly Glu Arg Asn Ala Gln
1 5 10

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<400> 9924

Ala Gln Ile Met Pro His Gly Ser Pro Ala Gln
1 5 10

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<400> 9925

Ala Gln Thr Ala Arg Thr Leu Asn Met Ala Gln
1 5 10

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<400> 9926

Ala Gln Ala Ser Val Gln Gly His Ser Ala Gln
1 5 10

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<400> 9927

Ala Gln Leu Asn Asn Ala Gly Arg Ala Ala Gln

1 5 10

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<400> 9928

Ala Gln Gly Leu Arg Gly Ser His Ala Ala Gln
1 5 10

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<400> 9929

Ala Gln Phe Val Arg Asp Ser Tyr Ser Ala Gln
1 5 10

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<400> 9930

Ala Gln Gly Arg Phe Thr Gly Thr Glu Ala Gln
1 5 10

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<400> 9931

Ala Gln Arg Gln Asn Pro Ile Glu Leu Ala Gln
1 5 10

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<400> 9932

Ala Gln Val Arg Asp Lys Phe Gly Thr Ala Gln
1 5 10

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<400> 9933

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

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<400> 9934

Ala Gln Val Arg Gln Glu His Thr Ser Ala Gln
1 5 10

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<400> 9935

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

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<400> 9936

Ala Gln Asp Tyr Ser Lys Ser Asn Thr Ala Gln
1   5   10

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<400> 9937

Ala Gln Met Ser Asn Val Asn Val Ser Ala Gln
1   5   10

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<400> 9938

Ala Gln Met Ser Ser Gly Arg Ser Leu Ala Gln
1   5   10

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<400> 9939

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

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<400> 9940

Ala Gln Leu Ile Ser Ala His Lys Gly Ala Gln
1 5 10

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<400> 9941

Ala Gln Pro Ile Asn Thr His Ala Ala Ala Gln
1 5 10

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<400> 9942

Ala Gln Met Pro His Val Gly Asn Ala Ala Gln
1 5 10

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<400> 9943

Ala Gln Tyr Gly Ser Ser Ala Ile Asn Ala Gln
1   5   10

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<400> 9944

Ala Gln His Ala Ser Met Pro Ser Ser Ala Gln
1   5   10

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<400> 9945

Ala Gln Phe Gly Glu Asn Ala Arg Phe Ala Gln
1   5   10

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<400> 9946

Ala Gln Ser Arg His Asp Leu Pro Ser Ala Gln
1   5   10

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<400> 9947

Ala Gln Arg Ser Gln Gly Ala Asn Met Ala Gln
1   5   10

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<400> 9948

Ala Gln Ala Asn Ser Asn Ser His Ser Ala Gln
1   5   10

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<400> 9949

Ala Gln Gln Ala Arg Gln Asn Gln Gly Ala Gln
1   5   10

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<400> 9950

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

<210> 9951
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<400> 9951

Ala Gln Lys Tyr Ser Ser Ser Gln Ser Ala Gln
1 5 10

<210> 9952
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<400> 9952

Ala Gln Ser Ala Lys Thr Leu Asn Thr Ala Gln
1 5 10

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<400> 9953

Ala Gln Gly Ile Arg Thr Thr Asn Ala Ala Gln
1 5 10

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<400> 9954

Ala Gln Met Asn Thr Thr Ile Asn Arg Ala Gln
1   5   10

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<400> 9955

Ala Gln Leu Lys Asn Thr Ser Leu Pro Ala Gln
1   5   10

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<400> 9956

Ala Gln Thr Asn Arg Ala Ala Thr Met Ala Gln
1   5   10

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<400> 9957

Ala Gln His Gly Tyr Pro Asn Val Pro Ala Gln
1   5   10

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<400> 9958

Ala Gln Trp Gly Tyr Arg Gly Ala Glu Ala Gln
1 5 10

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<400> 9959

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

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<400> 9960

Ala Gln Lys Asn Arg Leu Pro Pro Asp Ala Gln
1 5 10

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<400> 9961

Ala Gln Tyr Arg Ser Gln Glu His Pro Ala Gln
1 5 10

<210> 9962
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<400> 9962

Ala Gln His Gly Gly Arg Val Ser Pro Ala Gln
1   5   10

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<400> 9963

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

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<400> 9964

Ala Gln Gln Ser Val Ser Ala Thr Arg Ala Gln
1   5   10

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<400> 9965

Ala Gln Gln Arg Pro Ile Pro Gln Ala Ala Gln
1 5 10

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<400> 9966

Ala Gln Gln Arg Ala Ile Gly Ile Glu Ala Gln
1 5 10

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<400> 9967

Ala Gln Phe Gly His Val Gly Ile Asn Ala Gln
1 5 10

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<400> 9968

Ala Gln Phe Glu His Val Arg Ser Glu Ala Gln
1 5 10

<210> 9969
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<400> 9969

Ala Gln Lys Ser Val Thr Ser Asn Thr Ala Gln
1   5   10

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<400> 9970

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

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<400> 9971

Ala Gln Asn His Ala Tyr Pro Ser Ala Ala Gln
1   5   10

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<400> 9972

Ala Gln Met Pro Gln Gly Lys Ser Val Ala Gln
1   5   10

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<400> 9973

Ala Gln Leu Arg Thr Ala Ala Thr Ser Ala Gln
1 5 10

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<400> 9974

Ala Gln Asp Ser Gln His Arg Val Ser Ala Gln
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<400> 9975

Ala Gln Phe Leu Asn Glu His Thr Val Ala Gln
1 5 10

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<400> 9976

Ala Gln Asn Ser Thr Gly Thr Ser Met Ala Gln
1 5 10

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<400> 9977

Ala Gln His Ser Pro Pro Met Ser Ala Ala Gln
1   5   10

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<400> 9978

Ala Gln Leu Met Ser Gln Arg Pro Thr Ala Gln
1   5   10

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<400> 9979

Ala Gln Asn Thr Asn Val Asn Pro Pro Ala Gln
1   5   10

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<400> 9980

Ala Gln Trp Gly Gly Tyr Ser Ser Ala Ala Gln

1 5 10

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<400> 9981

Ala Gln Tyr Ser Leu Asn Pro Ser Gly Ala Gln
1 5 10

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<400> 9982

Ala Gln Lys Glu Ser Lys Asp Arg Val Ala Gln
1 5 10

<210> 9983
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<400> 9983

Ala Gln Lys Leu Val Ser Ser Pro Asp Ala Gln
1 5 10

<210> 9984
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<400> 9984

Ala Gln Asn Thr Ala Ser His Asn Ala Ala Gln
1 5 10

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Ala Gln Leu Val His Lys Asp Phe Pro Ala Gln
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Ala Gln Lys Pro Ala Leu Ala Gln Asn Ala Gln
1 5 10

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Ala Gln Gly Asn Ala Gln Pro Ser Lys Ala Gln
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Ala Gln Arg Val Ala His Thr Glu Asn Ala Gln
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Ala Gln Val Ser Ala Ser Phe Met Ala Ala Gln
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Ala Gln Arg Val Leu Thr Ala Asp Ala Ala Gln
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Ala Gln Thr Val Val Gly Thr Lys Gln Ala Gln
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Ala Gln Leu Ala Arg Thr Gln Pro Ser Ala Gln
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Ala Gln Met Ser Ser Ser His Ser Ala Ala Gln
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Ala Gln Pro Ser Ser Lys Ser Pro Ser Ala Gln
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Ala Gln Tyr Ser Gly Ala Met Ser Val Ala Gln
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Ala Gln Pro Pro Pro Thr Lys Ser Tyr Ala Gln
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<400> 9998

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

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Ala Gln Thr Ala Arg Leu Gln Asp Gly Ala Gln
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Ala Gln Arg Pro Val Leu Gly Gln Pro Ala Gln
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Ala Gln Ala Ser Phe Lys Thr Glu Val Ala Gln
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Ala Gln Val Thr Arg Thr Val Asn Ala Ala Gln
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Ala Gln Asp His Ala Arg Ser Gly Gly Ala Gln
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<400> 10009

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

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<400> 10013

Ala Gln Arg Phe Thr Asn Asn Glu Ala Ala Gln
1 5 10

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Ala Gln Ser Ser His Gln Met Arg Gly Ala Gln
1 5 10

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Ala Gln Thr Thr Met Gly Thr Met Leu Ala Gln
1 5 10

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<400> 10016

Ala Gln Thr Asn Gly Gly Val Pro Ile Ala Gln
1 5 10

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<400> 10017

Ala Gln Lys Ser Asn Glu Gly Asn Gly Ala Gln
1 5 10

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Ala Gln Asn Val Ala Met Thr Thr Leu Ala Gln
1   5   10

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Ala Gln Tyr Ser Gly His Thr Pro Met Ala Gln
1   5   10

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Ala Gln Gly Thr Pro Asn Arg Ala Leu Ala Gln
1   5   10

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

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<400> 10022

Ala Gln Ile Phe Asn Leu Lys Gln Asp Ala Gln
1   5   10

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Ala Gln His Ala Met Ser Leu Ser Pro Ala Gln
1   5   10

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<400> 10024

Ala Gln Ser Glu Ser Met Leu Arg Glu Ala Gln
1   5   10

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

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<400> 10027

Ala Gln Ile Pro Lys Ser Ala Asp Ile Ala Gln
1 5 10

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<400> 10028

Ala Gln Ala Gln Ser Leu Arg Thr Met Ala Gln
1 5 10

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<400> 10029

Ala Gln Met Leu Thr Ser Ser Leu Asp Ala Gln
1 5 10

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<400> 10030

Ala Gln Ile Tyr Arg Asp Asn Glu Arg Ala Gln
1   5   10

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<400> 10031

Ala Gln Ser Pro Pro Thr Met Pro Ala Ala Gln
1   5   10

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<400> 10032

Ala Gln Pro Met Arg Ser Gly Thr Pro Ala Gln
1   5   10

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<400> 10033

Ala Gln Leu Leu Ser Lys Ser Ser Glu Ala Gln

1 5 10

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<400> 10034

Ala Gln Thr Ala Asn Phe Gln Glu Arg Ala Gln
1 5 10

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Ala Gln Ser Gly Asn Arg Pro Val Thr Ala Gln
1 5 10

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Ala Gln Leu Asn Gln Val Asp Ser Arg Ala Gln
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<400> 10037

Ala Gln Ile Thr Pro Ser Ser Ser Lys Ala Gln
1 5 10

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<400> 10038

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

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<400> 10039

Ala Gln Ile Asn Met Arg Thr Ala Val Ala Gln
1 5 10

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Ala Gln Ser Lys Asn Thr Gly Ser Ala Ala Gln
1 5 10

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<400> 10041

Ala Gln Gly Ser Ala His Gln Glu Pro Ala Gln
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<400> 10042

Ala Gln Ser Lys Asn Ala Leu Asn His Ala Gln
1   5   10

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<400> 10043

Ala Gln Gly Lys Ala Val Ser Val Ser Ala Gln
1   5   10

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<400> 10044

Ala Gln Tyr Ser Gly Thr Gly Thr Val Ala Gln
1   5   10

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<400> 10045

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

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<400> 10046

Ala Gln Asn Ile Ala Asn Leu Asn Ala Ala Gln
1   5   10

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<400> 10047

Ala Gln Ser Gly Ala Arg Glu Leu Asn Ala Gln
1   5   10

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<400> 10048

Ala Gln Gly His Ser Tyr Thr Lys Glu Ala Gln
1   5   10

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<400> 10049

Ala Gln Thr Leu Asn Ser Ile Arg Ala Ala Gln
1   5   10

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Ala Gln Leu Ser Leu Ser Ser Ile Ala Ala Gln
1   5   10

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<400> 10051

Ala Gln Asn Val Ser Arg Val Thr Asn Ala Gln
1   5   10

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<400> 10052

Ala Gln Tyr Asp Thr Thr Ala Asn Arg Ala Gln
1   5   10

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<400> 10053

Ala Gln Ile Asp Arg Leu Asn Ser Ser Ala Gln
1   5   10

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<400> 10054

Ala Gln Thr Thr Thr Asn Arg Ile Ser Ala Gln
1   5   10

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<400> 10055

Ala Gln Phe Asn Thr Val Arg Asp Arg Ala Gln
1   5   10

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<400> 10056

Ala Gln Arg Thr Leu Ala Asp Glu Leu Ala Gln
1 5 10

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<400> 10057

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

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<400> 10058

Ala Gln Gln Thr Met Gly Ser Ser Val Ala Gln
1 5 10

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<400> 10059

Ala Gln Leu Asn Arg Pro Gln His Ser Ala Gln
1 5 10

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<400> 10060

Ala Gln Met Ser Val Ala Leu Arg Gly Ala Gln
1   5   10

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<400> 10061

Ala Gln Asp Asn Leu Ala Arg Met Gly Ala Gln
1   5   10

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<400> 10062

Ala Gln Thr Ala His Asn Ala Leu Leu Ala Gln
1   5   10

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

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<400> 10064

Ala Gln Tyr Val Gly Gly Ile Val Pro Ala Gln
1 5 10

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<400> 10065

Ala Gln Lys Pro Asn Gln Thr Pro Asn Ala Gln
1 5 10

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<400> 10066

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

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<400> 10067

Ala Gln Ser Asn Val His Asp Arg Ser Ala Gln
1 5 10

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<400> 10068

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

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<400> 10069

Ala Gln Arg Gly Val Glu Arg Ser Ser Ala Gln
1 5 10

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<400> 10070

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

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<400> 10071

Ala Gln Leu Ser Leu Ser Thr Asn Asn Ala Gln
1   5   10

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<400> 10072

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

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Ala Gln Asn Ala Ser Pro Gly Ser Ser Ala Gln
1   5   10

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Ala Gln Met Lys Ala Asn Ser Leu Ser Ala Gln
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Ala Gln His Lys Gly Met Ala Asn Ser Ala Gln
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Ala Gln Gly Arg Asn Asn Tyr Pro Asp Ala Gln
1   5   10

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Ala Gln Leu Pro Asp Gln Lys Trp Gln Ala Gln
1   5   10

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

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Ala Gln Asn Arg Ile Gly Met Gln Pro Ala Gln
1   5   10

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

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

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<400> 10082

Ala Gln Thr Gly Arg Pro Asn Leu Met Ala Gln
1   5   10

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<400> 10083

Ala Gln Val Ala Gly Arg Ser Pro Met Ala Gln
1   5   10

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<400> 10084

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

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<400> 10085

Ala Gln Leu Arg Thr Gly Ser Phe Ala Ala Gln
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<400> 10086

Ala Gln Ala Gly Val Ser Ser Gly Ser Ala Gln

1 5 10

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Ala Gln Trp Arg Asp Ser Gly His Gly Ala Gln
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Ala Gln Ser Phe Gly Asn Arg Pro Val Ala Gln
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Ala Gln Lys Val Ser His Asn Gly Asp Ala Gln
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Ala Gln Asn Thr Pro Pro Tyr Val Gln Ala Gln
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<400> 10091

Ala Gln Lys Lys Asp Asn Asn Gln Pro Ala Gln
1 5 10

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<400> 10092

Ala Gln Thr Ile Lys Ser Leu Pro Val Ala Gln
1 5 10

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<400> 10093

Ala Gln Ile Asn Ala Met Arg Ser Gln Ala Gln
1 5 10

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<400> 10094

Ala Gln Gly Asn Ser Ile Ala Lys Gly Ala Gln
1   5   10

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<400> 10095

Ala Gln Val Thr Thr Pro Lys Ala Phe Ala Gln
1   5   10

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<400> 10096

Ala Gln Gly Ser Val Ala Gly Ser Arg Ala Gln
1   5   10

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<400> 10097

Ala Gln Ser Ala Asn Asn Ala Pro Lys Ala Gln
1   5   10

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

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Ala Gln Arg Asn Gln Pro Thr Asp Val Ala Gln
1   5   10

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<400> 10100

Ala Gln Thr Gln Val Gly Ser Gly Pro Ala Gln
1   5   10

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<400> 10101

Ala Gln Leu Ser Gln Val Ser Arg Pro Ala Gln
1   5   10

<210> 10102
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<400> 10102

Ala Gln Asn Gly Ala Asn Leu Gln Met Ala Gln
1   5   10

<210> 10103
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<400> 10103

Ala Gln Met Leu Thr Thr Asn Ser Val Ala Gln
1   5   10

<210> 10104
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<400> 10104

Ala Gln Thr Ser Thr Arg Pro Ser Pro Ala Gln
1   5   10

<210> 10105
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<400> 10105

Ala Gln Lys Tyr Ile Gly Ser Gly Glu Ala Gln
1   5   10

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<400> 10106

Ala Gln Asn Asn Leu Thr Arg Val Thr Ala Gln
1   5   10

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<400> 10107

Ala Gln Lys Ile Glu Thr Met Met Pro Ala Gln
1   5   10

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<400> 10108

Ala Gln Leu Ser His His Thr Arg Asp Ala Gln
1   5   10

<210> 10109
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<400> 10109

Ala Gln Thr Arg Thr Asn Pro Thr Glu Ala Gln
1 5 10

<210> 10110
<211> 11
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<400> 10110

Ala Gln Ser Thr Arg Asn Val Val Gly Ala Gln
1 5 10

<210> 10111
<211> 11
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<220>
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<400> 10111

Ala Gln Ser Val Asp Leu Arg Lys Asp Ala Gln
1 5 10

<210> 10112
<211> 11
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<220>
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<400> 10112

Ala Gln Asn Ala Ala Ala Pro Ala Arg Ala Gln
1 5 10

<210> 10113
<211> 11
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<400> 10113

Ala Gln Thr Gln Ile Ala Ile Ser Pro Ala Gln
1   5   10

<210> 10114
<211> 11
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<400> 10114

Ala Gln Gln Lys Asn Leu Ser Gln Ser Ala Gln
1   5   10

<210> 10115
<211> 11
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<220>
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<400> 10115

Ala Gln Thr Ser Met Gly Gly Glu Pro Ala Gln
1   5   10

<210> 10116
<211> 11
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<220>
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<400> 10116

Ala Gln Ser Thr Ser His Gln Asn Thr Ala Gln
1   5   10

<210> 10117

<211> 11
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<400> 10117

Ala Gln Leu Arg Gly Ser Met Gln Ser Ala Gln
1 5 10

<210> 10118
<211> 11
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<400> 10118

Ala Gln Val Thr His Gln Ile His Asn Ala Gln
1 5 10

<210> 10119
<211> 11
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<400> 10119

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

<210> 10120
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<400> 10120

Ala Gln Gln Ser Arg Ser Ala Ala Ala Ala Gln
1 5 10

<210> 10121
<211> 11
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<400> 10121

Ala Gln His Asn Gln Ala Pro Ser Gly Ala Gln
1   5   10

<210> 10122
<211> 11
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<400> 10122

Ala Gln Ile Gly Ser Met His His Thr Ala Gln
1   5   10

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<400> 10123

Ala Gln Thr Asn Pro Gly Pro Leu Ala Ala Gln
1   5   10

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<400> 10124

Ala Gln Asn Thr Pro His Asn Ala Ser Ala Gln
1 5 10

<210> 10125
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<400> 10125

Ala Gln Arg Val Ile Gly Asn Ser Ser Ala Gln
1 5 10

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<400> 10126

Ala Gln Ser Thr Gly Asn Arg Ser Val Ala Gln
1 5 10

<210> 10127
<211> 11
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<400> 10127

Ala Gln Met Asn Ser Glu Val Thr Arg Ala Gln
1 5 10

<210> 10128
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<400> 10128

Ala Gln Gln Gln Ala Lys Gly Ser Thr Ala Gln
1   5   10

<210> 10129
<211> 11
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<400> 10129

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

<210> 10130
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<400> 10130

Ala Gln His Val Gly Ala Ala Thr Ser Ala Gln
1   5   10

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<400> 10131

Ala Gln Lys Trp Asn Ser Thr Met Glu Ala Gln
1   5   10

<210> 10132
<211> 11
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<400> 10132

Ala Gln Ser Arg Val Pro Glu Ser Asn Ala Gln
1 5 10

<210> 10133
<211> 11
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<400> 10133

Ala Gln Leu Met Ala Lys Ser Met Ser Ala Gln
1 5 10

<210> 10134
<211> 11
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<400> 10134

Ala Gln Arg Pro Met Glu Pro Ser Ile Ala Gln
1 5 10

<210> 10135
<211> 11
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<400> 10135

Ala Gln Gln Val Thr Ser Ser Arg Pro Ala Gln
1 5 10

<210> 10136
<211> 11
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<400> 10136

Ala Gln Arg Asp Ala Asn Met Ser Ser Ala Gln
1   5   10

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<400> 10137

Ala Gln Gly Leu Leu Ser Gln Asp Gly Ala Gln
1   5   10

<210> 10138
<211> 11
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<213> Artificial Sequence

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<400> 10138

Ala Gln Thr Ile Asn Ala His Ser Ile Ala Gln
1   5   10

<210> 10139
<211> 11
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<400> 10139

Ala Gln Leu Thr Gly Asn Lys Pro Gln Ala Gln

1 5 10

<210> 10140
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<400> 10140

Ala Gln Thr Phe Asp Thr Asn Lys Thr Ala Gln
1 5 10

<210> 10141
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<400> 10141

Ala Gln Thr Leu Gln Thr Thr Arg Leu Ala Gln
1 5 10

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<400> 10142

Ala Gln Thr Ser Gln Met Arg Ser Pro Ala Gln
1 5 10

<210> 10143
<211> 11
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<400> 10143

Ala Gln Val Ser Pro Ser Asn Lys Ala Ala Gln
1 5 10

<210> 10144
<211> 11
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<400> 10144

Ala Gln Leu Asn Arg Thr Tyr Pro Pro Ala Gln
1 5 10

<210> 10145
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<400> 10145

Ala Gln Asn Ala Glu Leu Ala Val Arg Ala Gln
1 5 10

<210> 10146
<211> 11
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<400> 10146

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

<210> 10147
<211> 11
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<213> Artificial Sequence

<220>
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<400> 10147

Ala Gln Thr Asn Arg Thr Gln Leu Tyr Ala Gln
1   5   10

<210> 10148
<211> 11
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<213> Artificial Sequence

<220>
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<400> 10148

Ala Gln Pro Lys Ser Ser Gly Ile Asn Ala Gln
1   5   10

<210> 10149
<211> 11
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<400> 10149

Ala Gln Asn Asn Ser Asn Thr Arg Gln Ala Gln
1   5   10

<210> 10150
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<400> 10150

Ala Gln Arg Val Thr Asp Ala Gly Ser Ala Gln
1   5   10

<210> 10151
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<400> 10151

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

<210> 10152
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<400> 10152

Ala Gln Asn Leu Asn Leu Ser Met Ser Ala Gln
1   5   10

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<220>
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<400> 10153

Ala Gln Pro Asn Arg Thr Ala Asn Asn Ala Gln
1   5   10

<210> 10154
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<220>
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<400> 10154

Ala Gln Trp Asn Arg Thr Ser Thr Ala Ala Gln
1   5   10

<210> 10155
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<400> 10155

Ala Gln Gln Ser Asn Pro Val Ile Pro Ala Gln
1   5   10

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<400> 10156

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

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<400> 10157

Ala Gln Glu Val Thr Asp Thr Thr Arg Ala Gln
1   5   10

<210> 10158
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<400> 10158

Ala Gln Ala Gln Asn Lys Ser Gly Pro Ala Gln
1   5   10

<210> 10159
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<220>
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<400> 10159

Ala Gln Tyr Ile Asn Gln Thr Glu Ser Ala Gln
1   5   10

<210> 10160
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<220>
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<400> 10160

Ala Gln Arg Val Pro Val Ser Glu Asn Ala Gln
1   5   10

<210> 10161
<211> 11
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<400> 10161

Ala Gln Gln Asn Gly Thr Lys Leu Gln Ala Gln
1   5   10

<210> 10162
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<400> 10162

Ala Gln Gly Tyr Ser Asn Asn Thr Ala Ala Gln
1 5 10

<210> 10163
<211> 11
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<220>
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<400> 10163

Ala Gln Asn Arg Gly Met Gly Asn Val Ala Gln
1 5 10

<210> 10164
<211> 11
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<400> 10164

Ala Gln Tyr Met Arg Asp Pro Ser Thr Ala Gln
1 5 10

<210> 10165
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<220>
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<400> 10165

Ala Gln Ser Ile Pro Ser Arg Asp Val Ala Gln
1 5 10

<210> 10166
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<220>
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<400> 10166

Ala Gln Gly Pro Val Ser Met Asn Ser Ala Gln
1   5   10

<210> 10167
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<220>
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<400> 10167

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

<210> 10168
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<220>
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<400> 10168

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

<210> 10169
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<400> 10169

Ala Gln Glu Met Thr Lys Thr Ile Pro Ala Gln
1   5   10

<210> 10170

<211> 11
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<220>
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<400> 10170

Ala Gln His Ala Ser Val Lys Met Pro Ala Gln
1 5 10

<210> 10171
<211> 11
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<220>
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<400> 10171

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

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<400> 10172

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

<210> 10173
<211> 11
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<220>
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<400> 10173

Ala Gln Lys Val Ala Ala Ala Ala Ala Ala Gln
1 5 10

<210> 10174
<211> 11
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<220>
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<400> 10174

Ala Gln Met Ala Asn Ala Ile Arg Ser Ala Gln
1 5 10

<210> 10175
<211> 11
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<400> 10175

Ala Gln Phe Gly Gln Ser Thr Ser Gly Ala Gln
1 5 10

<210> 10176
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<400> 10176

Ala Gln Thr Ser Ser Thr Ile Leu Arg Ala Gln
1 5 10

<210> 10177
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<220>
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<400> 10177

Ala Gln Asn Val Ser Arg Ala Glu His Ala Gln
1   5   10

<210> 10178
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<220>
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<400> 10178

Ala Gln Arg Thr Ala Pro Ser Thr Glu Ala Gln
1   5   10

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<400> 10179

Ala Gln Leu Ala Arg Ser Glu His Leu Ala Gln
1   5   10

<210> 10180
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<400> 10180

Ala Gln Ser Thr Gly His Pro Ser Gln Ala Gln
1   5   10

<210> 10181
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<400> 10181

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

<210> 10182
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<400> 10182

Ala Gln Lys Lys Ser Asp Ser Pro Asn Ala Gln
1   5   10

<210> 10183
<211> 11
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<220>
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<400> 10183

Ala Gln Val Asn Ser Arg Ile Tyr Ala Ala Gln
1   5   10

<210> 10184
<211> 11
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<220>
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<400> 10184

Ala Gln Leu Arg Gln Met Ala Asn Gly Ala Gln
1   5   10

<210> 10185
<211> 11
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<220>
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<400> 10185

Ala Gln Glu Arg Leu Lys Gly Ser Ser Ala Gln
1 5 10

<210> 10186
<211> 11
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<400> 10186

Ala Gln Met Ser Tyr Met Arg Val Asp Ala Gln
1 5 10

<210> 10187
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<400> 10187

Ala Gln Phe Asn Ser Lys Leu Gln Leu Ala Gln
1 5 10

<210> 10188
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<400> 10188

Ala Gln Arg Glu His Val Asn Asp Ser Ala Gln
1 5 10

<210> 10189
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<400> 10189

Ala Gln Gly Ser Pro Ser Gln Asn Thr Ala Gln
1   5   10

<210> 10190
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<400> 10190

Ala Gln His Thr Ala Glu Lys Ala Pro Ala Gln
1   5   10

<210> 10191
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<400> 10191

Ala Gln Ser Met Ser Gly Lys Leu Asp Ala Gln
1   5   10

<210> 10192
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<400> 10192

Ala Gln Thr Ser Gln Ser Arg Thr Ser Ala Gln

1 5 10

<210> 10193
<211> 11
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<220>
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<400> 10193

Ala Gln Trp Pro Thr Gln Ser Gly Ser Ala Gln
1 5 10

<210> 10194
<211> 11
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<220>
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<400> 10194

Ala Gln Asp Asn Thr Thr Arg Leu Lys Ala Gln
1 5 10

<210> 10195
<211> 11
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<400> 10195

Ala Gln Ser Ser Ala Ala Gly Lys Trp Ala Gln
1 5 10

<210> 10196
<211> 11
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<400> 10196

Ala Gln Ser Lys Phe Ala His Val Ala Ala Gln
1 5 10

<210> 10197
<211> 11
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<213> Artificial Sequence

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<400> 10197

Ala Gln Gln Thr Tyr Gln Gly Ser Thr Ala Gln
1 5 10

<210> 10198
<211> 11
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<220>
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<400> 10198

Ala Gln Thr Val Asn Leu Asn Arg Ala Ala Gln
1 5 10

<210> 10199
<211> 11
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<400> 10199

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

<210> 10200
<211> 11
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<213> Artificial Sequence

<220>
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<400> 10200

Ala Gln Arg Ser Asn Ser Ser Asn Leu Ala Gln
1   5   10

<210> 10201
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 10201

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

<210> 10202
<211> 11
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<213> Artificial Sequence

<220>
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<400> 10202

Ala Gln Trp Arg Asp Leu Ala Pro Val Ala Gln
1   5   10

<210> 10203
<211> 11
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<213> Artificial Sequence

<220>
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<400> 10203

Ala Gln His Ser Asp Ile Gln Arg Pro Ala Gln
1   5   10

<210> 10204
<211> 11

<212> PRT
<213> Artificial Sequence

<220>
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<400> 10204

Ala Gln Leu Ala Ala Met Thr Asn Ala Ala Gln
1   5   10

<210> 10205
<211> 11
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<400> 10205

Ala Gln Ser Ala Asn His Thr His Thr Ala Gln
1   5   10

<210> 10206
<211> 11
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<213> Artificial Sequence

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<400> 10206

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

<210> 10207
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<213> Artificial Sequence

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<400> 10207

Ala Gln Lys Pro Gly Ala Asn Pro Pro Ala Gln
1   5   10

<210> 10208
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<400> 10208

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

<210> 10209
<211> 11
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<213> Artificial Sequence

<220>
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<400> 10209

Ala Gln Leu Gly Ser Asn Ile Tyr Pro Ala Gln
1 5 10

<210> 10210
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<400> 10210

Ala Gln Asn Gly Ala His Ser Ser Glu Ala Gln
1 5 10

<210> 10211
<211> 11
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<400> 10211

Ala Gln Asn Thr Met Gly Gly Ala Ala Ala Gln
1   5   10

<210> 10212
<211> 11
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<400> 10212

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

<210> 10213
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<400> 10213

Ala Gln Tyr Ser Val Ala Gln Gln Pro Ala Gln
1   5   10

<210> 10214
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<400> 10214

Ala Gln Pro His Ser Lys Gly Met Leu Ala Gln
1   5   10

<210> 10215
<211> 11
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<400> 10215

Ala Gln Val Pro Ala His Gly Met Gly Ala Gln
1 5 10

<210> 10216
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<400> 10216

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

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<400> 10217

Ala Gln Val Gln Gly Thr Val Ser Arg Ala Gln
1 5 10

<210> 10218
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<400> 10218

Ala Gln Ser Gly Gly Ser Gly Ala Pro Ala Gln
1 5 10

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<400> 10219

Ala Gln Lys Val Pro Thr Gln Thr Glu Ala Gln
1   5   10

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<400> 10220

Ala Gln Ile Ser Thr Met Lys Pro Ser Ala Gln
1   5   10

<210> 10221
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<400> 10221

Ala Gln Ser Arg Val Val Glu Gln Ala Ala Gln
1   5   10

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<400> 10222

Ala Gln Val Leu Ser Arg Gln Ser Thr Ala Gln
1   5   10

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<400> 10223

Ala Gln Val Val Thr Thr Ser Ser Met Ala Gln
1   5   10

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<400> 10224

Ala Gln Ser Thr Gly Ser Ser Gly Leu Ala Gln
1   5   10

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<400> 10225

Ala Gln Pro Asn Arg Ala Ala Asn Asn Ala Gln
1   5   10

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<400> 10226

Ala Gln Tyr Pro Val Asn Ser Gln Pro Ala Gln
1   5   10

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<400> 10227

Ala Gln Lys Ser Ala Ser Pro Tyr Asp Ala Gln
1   5   10

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<400> 10228

Ala Gln Ser Lys Ser Trp Gly Ala Ala Ala Gln
1   5   10

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<400> 10229

Ala Gln Ser Ala Met Leu Lys Val Asp Ala Gln
1   5   10

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<400> 10230

Ala Gln Arg Ser Gln Thr Ile Gln Ala Ala Gln
1 5 10

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<400> 10231

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

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<400> 10232

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

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<400> 10233

Ala Gln Ala Ser Lys Gly Gln Tyr Leu Ala Gln
1 5 10

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<400> 10234

Ala Gln Val Arg Thr Leu Thr Val Asp Ala Gln
1   5   10

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<400> 10235

Ala Gln Arg Gly Asn Ala Ala Asn Glu Ala Gln
1   5   10

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<400> 10236

Ala Gln Phe Gly Ser His Pro Ser Val Ala Gln
1   5   10

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<400> 10237

Ala Gln Gly His Pro Thr Pro Val Asn Ala Gln
1   5   10

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<400> 10238

Ala Gln Ser Leu Asn Pro Val Arg Met Ala Gln
1 5 10

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<400> 10239

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

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<400> 10240

Ala Gln Thr Ala Lys Phe Asn Gln Gly Ala Gln
1 5 10

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<400> 10241

Ala Gln Leu Ile Ser Thr His Asp Met Ala Gln
1 5 10

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<400> 10242

Ala Gln Gln Ser Arg Asp Asn Ile Arg Ala Gln
1   5   10

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<400> 10243

Ala Gln Asn Asn Gly Asn Lys Gly Phe Ala Gln
1   5   10

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<400> 10244

Ala Gln Asn Val Asn Tyr Asp Gly Arg Ala Gln
1   5   10

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<400> 10245

Ala Gln Phe Met Lys Gly Ala Ser Ala Ala Gln

1 5 10

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<400> 10246

Ala Gln Leu Ala Thr Ser Thr Gln Met Ala Gln
1 5 10

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<400> 10247

Ala Gln Val His Gly Gly Tyr Ser Ala Ala Gln
1 5 10

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<400> 10248

Ala Gln Arg Gly Ser Glu Pro Met Gln Ala Gln
1 5 10

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<400> 10249

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

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<400> 10250

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

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<400> 10251

Ala Gln Met Lys Thr His Ser Pro Pro Ala Gln
1 5 10

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<400> 10252

Thr Leu Gln Ile Pro Phe Lys
1 5

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<400> 10253

Thr Ala Leu Lys Pro Phe Leu
1   5

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<400> 10254

Thr Thr Leu Lys Pro Phe Leu
1   5

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<400> 10255

Ser Ile Glu Arg Pro Phe Lys
1   5

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<400> 10256

Thr Gln Asn Arg Pro Phe Leu
1   5

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<400> 10257

Thr Met Gln Lys Pro Phe Ile
1   5

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<400> 10258

Thr Ser Thr Arg Pro Phe Leu
1   5

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<400> 10259

Gly Thr Phe Val Pro Pro Thr
1   5

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<400> 10260

Trp Ser Thr Asn Ala Gly Tyr
1   5

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<400> 10261

Thr Leu Glu Arg Pro Phe Thr
1   5

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<400> 10262

Thr Ala Ala Lys Pro Phe Leu
1   5

<210> 10263
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<400> 10263

Ile Arg Ile Gly Tyr Ser Gln
1   5

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<400> 10264

Glu Arg Val Gly Phe Ala Gln
1   5

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<400> 10265

Ala Asp Leu Leu Asn Tyr Arg
1   5

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<400> 10266

Leu Val Ala Gly Phe Ser Gln
1   5

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<400> 10267

Ser Ser Leu Lys Pro Phe Leu
1   5

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<400> 10268

Thr His Ser Arg Pro Phe Ile
1 5

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<400> 10269

Pro Phe Pro Gly Tyr Ser Ala
1 5

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<400> 10270

Ile Ile Val Gly Tyr Ser Gln
1 5

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<400> 10271

Arg Tyr Gln Gly Asp Ser Val
1 5

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<400> 10272

Arg Tyr Ala Gly Asp Ser Ile
1   5

<210> 10273
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<400> 10273

Lys Thr Ile Gly Glu His Trp
1   5

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<400> 10274

Trp Met Thr His Gly Ser Ala
1   5

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Ala Ala Ser Arg Pro Phe Leu
1   5

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<400> 10276

Thr Thr Ser Arg Pro Phe Leu
1 5

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<400> 10277

Ala Arg Val Gly Leu Ala Gln
1 5

<210> 10278
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<400> 10278

Gly Thr Ser Pro Asn Leu Ala
1 5

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<400> 10279

Val Arg Thr Gly Tyr Ser Ser
1 5

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<400> 10280

Ile Arg Val Gly Tyr Ser Ser
1   5

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<400> 10281

Thr Thr Leu Arg Pro Phe Ile
1   5

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<400> 10282

Gly Ile Thr Ser Leu Phe Lys
1   5

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<400> 10283

Thr Thr Gln Thr Pro Phe Arg
1   5

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Thr Val Ser Arg Pro Phe Leu
1   5

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Tyr Gly Thr Asn Pro Phe Arg
1   5

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Pro Thr Met Val Asp Ser Ser
1   5

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<400> 10287

Asn Lys Ala Ser Ser Gln Asn
1   5

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<400> 10288

Thr Phe Arg Ser Ser Asn Asp
1   5

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<400> 10289

Leu Pro Asp Arg Tyr Pro Asn
1   5

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Gln Asn Val Thr Lys Gly Val
1   5

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Ala Gln Ser Pro Ile Leu Arg
1   5

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<400> 10292

Val Ala Thr Gly Tyr Ser Ser
1   5

<210> 10293
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<400> 10293

Leu Asn Ser Asn Arg Pro Asn
1   5

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<400> 10294

Thr Ile Arg Asn Asn Thr Ile
1   5

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<400> 10295

Asp Leu Ser Arg Ile Phe Lys
1   5

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Leu Ser Asn Ser Ala Ser Gln
1   5

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<400> 10297

Leu Glu Asn Met Val Met Ser
1   5

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<400> 10298

Leu Thr Gln Gln Thr Asp Val

1 5

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<400> 10299

Ala Gly Leu Ala His Ala Thr
1 5

<210> 10300
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<400> 10300

Asn Ala His Thr Ala Leu Asp
1 5

<210> 10301
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<220>
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<400> 10301

Trp Pro Ile Leu Arg Ala Asp
1 5

<210> 10302
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<400> 10302

Ala Leu Ala Gly Leu Ser Leu
1 5

<210> 10303
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<400> 10303

Arg Ile Asp Met Pro Phe Lys
1 5

<210> 10304
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<400> 10304

Thr Met Ser Leu Ser Ser Ser
1 5

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<400> 10305

Gln Asn Val Ala Lys Asn Leu
1 5

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<400> 10306

Phe Asp Asn Pro Asn Asn Val
1   5

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<400> 10307

Val Leu Met Arg Glu Ser Leu
1   5

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<400> 10308

His His Asp Thr Gly Ser Ala
1   5

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<400> 10309

Asp Ala Pro Asn Ser Val Asp
1   5

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<400> 10310

Thr Ala Ser Arg Asp Ala Lys
1 5

<210> 10311
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<400> 10311

Thr Asn Tyr Thr Lys Gln Ile
1 5

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<400> 10312

Pro His Asn Ala Ser Val Leu
1 5

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<400> 10313

Thr Asn Asn Thr Arg Asn Ile
1 5

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<400> 10314

Met Val Pro Asn His Ser Gly
1   5

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<400> 10315

Pro Val Pro Gln Ser Glu His
1   5

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<400> 10316

Leu Tyr His Gly Gly Ser Thr
1   5

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<400> 10317

Met Ile His Thr Arg Glu Thr
1   5

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<400> 10318

Thr Asn Asn Thr Lys Pro Leu
1   5

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<400> 10319

Leu Asn Thr Thr Arg Asn Thr
1   5

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<400> 10320

Ala Leu His Asn Ser Gln Asn
1   5

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<400> 10321

Val Asn Ser Thr Arg Asn Val
1 5

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<400> 10322

Gly Val Gly Val Val Thr Lys
1 5

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<400> 10323

Val Leu Ser Lys Gln Leu Ala
1 5

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<400> 10324

Ser Lys Ser Leu Gln Pro Leu
1 5

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<400> 10325

Ser Asn Ser Thr Arg Leu Val
1   5

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<400> 10326

Leu Asn Gln Thr Lys Gln Ile
1   5

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<400> 10327

Asn Asn Ser Val Arg Gln Leu
1   5

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<400> 10328

Met Ser Gly Tyr Ser His Thr
1   5

<210> 10329

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<400> 10329

Val Lys Val Pro Ile Ile Thr
1 5

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<400> 10330

Gly Asn Asn Thr Arg Ala Val
1 5

<210> 10331
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<400> 10331

Gln Asn Gln Ile Lys Asn Ile
1 5

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<400> 10332

Thr Asn Met Thr Lys Pro Leu
1 5

<210> 10333
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<400> 10333

Asn Asn Ser Thr Arg Leu Ser
1   5

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<400> 10334

Ser Met Leu Thr Ser Ile Val
1   5

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Leu Asn Ala Thr Ala Ser Arg
1   5

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<400> 10336

Asn Thr Gly Val Gln Val Arg
1 5

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<400> 10337

Thr Asn Thr Val Arg Pro Ile
1 5

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<400> 10338

Gln Ser Thr Pro Gly Ala Thr
1 5

<210> 10339
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<220>
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<400> 10339

Gly His Ser Glu Asn Ser Arg
1 5

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Lys Asn Ala Pro Met Pro Asp
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Ser Asn Ser Thr Lys Pro Thr
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Pro Ile Ile Thr Met Pro Ala
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Pro Leu Lys Gly Ile Gly Ser
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Val Leu Ser Val Asn His Leu
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Ser Val Ala Ala Val His Met
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Ser Asn Ser Ile Arg Leu Val
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Pro Pro Val Arg Ser Thr Ala
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Leu Thr Asp Gly His Arg Ile

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

1 5

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Asp Asn Asn Ser Thr Arg Trp
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Thr Val Met Lys Gly Phe Thr
1 5

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

1 5

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Met Met Gly Asn Gly Ser Ser
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Ser Asn Ser Thr Lys Ala Leu
1 5

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

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

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

1 5

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

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

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

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Trp Tyr Lys Thr Leu Asp Ala
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Ser Arg Ala Leu Pro Asn Ser
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Met Ala Thr Thr His Ala Ala

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

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

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

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

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

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

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Gly His Thr Ser Val Ser Leu
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His Asn Val Ala Ile Thr Pro
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Leu Thr Thr Ser Gly Leu Lys
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Tyr Leu Thr Ser Gly Gly Tyr
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Arg Thr Thr Gly Asp Asn Thr

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

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

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

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

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Lys Thr Gly Ser Leu Ser Ala
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Ser Thr Asn Val Thr Thr Val

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

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

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

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

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

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

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

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

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

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

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

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

1 5

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

<210> 14882
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<220>
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<400> 14882

Ala Gln Pro Asn Thr Ile Arg Asn Val Ala Gln
1   5   10

<210> 14883
<211> 11
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<220>
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<400> 14883

Ala Gln Thr Ser Leu Gly Tyr Ser Ser Ala Gln
1   5   10

<210> 14884
<211> 11
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<220>
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<400> 14884

Ala Gln Met Gly Ala Asp His Arg Thr Ala Gln
1   5   10

<210> 14885
<211> 11
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<220>
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<400> 14885

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

<210> 14886
<211> 11
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<220>
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<400> 14886

Ala Gln Thr Pro Gln Ser Gln Glu Met Ala Gln
1 5 10

<210> 14887
<211> 11
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<220>
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<400> 14887

Ala Gln Ser Gly Val Ser Thr Thr Asp Ala Gln
1 5 10

<210> 14888
<211> 11
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<220>
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<400> 14888

Ala Gln Glu Gly Leu Gly Asn Ala Ala Ala Gln
1 5 10

<210> 14889
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<220>
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<400> 14889

Ala Gln Ile Ala Glu Asn Leu Ser Ala Ala Gln
1   5   10

<210> 14890
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<400> 14890

Ala Gln Leu Gly Asp Ile Thr Gly Phe Ala Gln
1   5   10

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<220>
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<400> 14891

Ala Gln Ser Gln Leu His Arg Leu Gln Ala Gln
1   5   10

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<400> 14892

Ala Gln Pro Ile Ile Thr Met Pro Ala Ala Gln

1 5 10

<210> 14893
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<220>
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<400> 14893

Ala Gln Trp Ser His Ser Glu Asn Ser Ala Gln
1 5 10

<210> 14894
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<400> 14894

Ala Gln Leu Thr Gln Gln Thr Asp Val Ala Gln
1 5 10

<210> 14895
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<220>
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<400> 14895

Ala Gln Gly Met Ser Gly Val Ala Gln Ala Gln
1 5 10

<210> 14896
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<400> 14896

Ala Gln Pro Thr Asn Ile Met Leu Asp Ala Gln
1 5 10

<210> 14897
<211> 11
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<220>
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<400> 14897

Ala Gln Asn Pro Thr Leu Ile Thr Leu Ala Gln
1 5 10

<210> 14898
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<220>
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<400> 14898

Ala Gln Pro Gly Gly Gly Leu Thr Pro Ala Gln
1 5 10

<210> 14899
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<400> 14899

Ala Gln Asp Arg Asp Ser Val Gln Asn Ala Gln
1 5 10

<210> 14900
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<400> 14900

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

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<400> 14901

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

<210> 14902
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<220>
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<400> 14902

Ala Gln Ser Ala Pro Asn Val Thr Ile Ala Gln
1   5   10

<210> 14903
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<400> 14903

Ala Gln Pro Asn Met Ser Ala Met Ile Ala Gln
1   5   10

<210> 14904
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<212> PRT
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<400> 14904

Ala Gln Tyr Ser Ala Asp Lys Thr Thr Ala Gln
1   5   10

<210> 14905
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<400> 14905

Ala Gln Arg Val Asp Ala Val Leu Ser Ala Gln
1   5   10

<210> 14906
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<400> 14906

Ala Gln Gly Thr Ala Val Phe Thr Ala Ala Gln
1   5   10

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<400> 14907

Ala Gln Thr Leu Ser Gly Ala Leu Thr Ala Gln
1   5   10

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<400> 14908

Ala Gln His Ala Asp Asn Arg Leu Lys Ala Gln
1   5   10

<210> 14909
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<220>
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<400> 14909

Ala Gln Thr Gln Gly Pro Gly Pro Lys Ala Gln
1   5   10

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<400> 14910

Ala Gln Val Asp Ala Leu Ser His Met Ala Gln
1   5   10

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<400> 14911

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

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<400> 14912

Ala Gln Leu Thr Val Ala Val Glu Thr Ala Gln
1   5   10

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<400> 14913

Ala Gln Ser Gln Ala Ile Ala Pro Lys Ala Gln
1   5   10

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<400> 14914

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

<210> 14915
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<400> 14915

Ala Gln Ser Ile Tyr Tyr His Thr Glu Ala Gln
1 5 10

<210> 14916
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<400> 14916

Ala Gln Met Asn Ile Leu Arg Glu Val Ala Gln
1 5 10

<210> 14917
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<400> 14917

Ala Gln Asn Met Leu Lys Gln Ser Glu Ala Gln
1 5 10

<210> 14918
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<400> 14918

Ala Gln Phe Met Pro Ile Ser Ser Ala Ala Gln
1 5 10

<210> 14919
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<400> 14919

Ala Gln Lys Asn Ala Pro Met Pro Asp Ala Gln
1   5   10

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<220>
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<400> 14920

Ala Gln Thr Asn Tyr Asp Leu Arg Ala Ala Gln
1   5   10

<210> 14921
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<400> 14921

Ser Asn Ser Ile Arg Leu Val
1   5

<210> 14922
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<220>
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<400> 14922

Pro Asn Thr Ile Arg Asn Val
1   5

<210> 14923

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<400> 14923

Thr Ser Leu Gly Tyr Ser Ser
1 5

<210> 14924
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<212> PRT
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<400> 14924

Met Gly Ala Asp His Arg Thr
1 5

<210> 14925
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<220>
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<400> 14925

Gly Asp Asn Ser Leu Thr Arg
1 5

<210> 14926
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<400> 14926

Thr Pro Gln Ser Gln Glu Met
1 5

<210> 14927
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<400> 14927

Ser Gly Val Ser Thr Thr Asp
1   5

<210> 14928
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<400> 14928

Glu Gly Leu Gly Asn Ala Ala
1   5

<210> 14929
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<400> 14929

Ile Ala Glu Asn Leu Ser Ala
1   5

<210> 14930
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<220>
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<400> 14930

Leu Gly Asp Ile Thr Gly Phe
1   5

<210> 14931
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<220>
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<400> 14931

Ser Gln Leu His Arg Leu Gln
1   5

<210> 14932
<211> 7
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<400> 14932

Pro Ile Ile Thr Met Pro Ala
1   5

<210> 14933
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<400> 14933

Trp Ser His Ser Glu Asn Ser
1   5

<210> 14934
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<400> 14934

Leu Thr Gln Gln Thr Asp Val
1   5

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<400> 14935

Gly Met Ser Gly Val Ala Gln
1   5

<210> 14936
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<220>
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<400> 14936

Pro Thr Asn Ile Met Leu Asp
1   5

<210> 14937
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<220>
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<400> 14937

Asn Pro Thr Leu Ile Thr Leu
1   5

<210> 14938
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<220>
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<400> 14938

Pro Gly Gly Gly Leu Thr Pro
1   5

<210> 14939
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<400> 14939

Asp Arg Asp Ser Val Gln Asn
1   5

<210> 14940
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<400> 14940

Leu Asn Gly Leu Asn Val Ser
1   5

<210> 14941
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<400> 14941

Ala Gln Thr Ser Asn Asp Pro
1   5

<210> 14942
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<400> 14942

Ser Ala Pro Asn Val Thr Ile
1   5

<210> 14943
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<400> 14943

Pro Asn Met Ser Ala Met Ile
1   5

<210> 14944
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<400> 14944

Tyr Ser Ala Asp Lys Thr Thr
1   5

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<400> 14945

Arg Val Asp Ala Val Leu Ser

1 5

<210> 14946
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<400> 14946

Gly Thr Ala Val Phe Thr Ala
1 5

<210> 14947
<211> 7
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<220>
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<400> 14947

Thr Leu Ser Gly Ala Leu Thr
1 5

<210> 14948
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<220>
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<400> 14948

His Ala Asp Asn Arg Leu Lys
1 5

<210> 14949
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<220>
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<400> 14949

Thr Gln Gly Pro Gly Pro Lys
1 5

<210> 14950
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<212> PRT
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<220>
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<400> 14950

Val Asp Ala Leu Ser His Met
1 5

<210> 14951
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<220>
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<400> 14951

Arg Asn Asp Ala Ile Leu Asn
1 5

<210> 14952
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<220>
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<400> 14952

Leu Thr Val Ala Val Glu Thr
1 5

<210> 14953
<211> 7
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<400> 14953

Ser Gln Ala Ile Ala Pro Lys
1   5

<210> 14954
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<400> 14954

Val Leu Ser Val Asn His Leu
1   5

<210> 14955
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<220>
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<400> 14955

Ser Ile Tyr Tyr His Thr Glu
1   5

<210> 14956
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<220>
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<400> 14956

Met Asn Ile Leu Arg Glu Val
1   5

<210> 14957
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<220>
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<400> 14957

Asn Met Leu Lys Gln Ser Glu
1   5

<210> 14958
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<400> 14958

Phe Met Pro Ile Ser Ser Ala
1   5

<210> 14959
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<400> 14959

Lys Asn Ala Pro Met Pro Asp
1   5

<210> 14960
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<400> 14960

Thr Asn Tyr Asp Leu Arg Ala
1   5

<210> 14961
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<210> 14962
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<400> 14962
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<210> 14963
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<400> 15053
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Ala Gln Lys Ala Tyr Ser Val Gln Val Ala Gln
1 5 10

<210> 15055
<211> 11
<212> PRT
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<400> 15055

Ala Gln Arg Thr Ala Asn Ala Leu Gly Ala Gln
1 5 10

<210> 15056
<211> 11
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<220>
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<400> 15056

Ala Gln Val Thr Gly Val Arg Ile Gly Ala Gln
1 5 10

<210> 15057
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<400> 15057

Ala Gln Pro Arg Pro Val Ser Asn Gly Ala Gln
1 5 10

<210> 15058
<211> 11
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<400> 15058

Ala Gln Phe Ser Val Thr Arg Gln Ala Ala Gln
1 5 10

<210> 15059
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<400> 15059

Ala Gln Tyr Pro His Met Thr His Asp Ala Gln
1 5 10

<210> 15060
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<400> 15060

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

<210> 15061
<211> 11
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<400> 15061

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

<210> 15062
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<400> 15062

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

<210> 15063
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<400> 15063

Ala Gln Ser Thr Arg Asn Val Val Gly Ala Gln
1   5   10

<210> 15064
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<400> 15064

Ala Gln Ser Gly Gly Thr Arg Glu Gly Ala Gln
1   5   10

<210> 15065

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<400> 15065

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

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<400> 15066

Ala Gln Asn Asn Asn Gln Lys Val Tyr Ala Gln
1   5   10

<210> 15067
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<400> 15067

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

<210> 15068
<211> 11
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<220>
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<400> 15068

Ala Gln Val Ala Gly Leu Thr Val Gln Ala Gln
1   5   10

<210> 15069
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<400> 15069

Ala Gln His Ser Ala Lys Thr Ile Ala Ala Gln
1   5   10

<210> 15070
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<400> 15070

Ala Gln Ser Ile Arg Ala Pro Val Ser Ala Gln
1   5   10

<210> 15071
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<400> 15071

Ala Gln Pro Val Gly Thr Arg Thr Ser Ala Gln
1   5   10

<210> 15072
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<400> 15072

Ala Gln Ile Asn Thr Ala Ser Tyr Lys Ala Gln
1 5 10

<210> 15073
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<400> 15073

Ala Gln Gly Arg Thr Val Gln Asp Arg Ala Gln
1 5 10

<210> 15074
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<400> 15074

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

<210> 15075
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<400> 15075

Ala Gln Met Ile Arg Gly Thr Ser Ser Ala Gln
1 5 10

<210> 15076
<211> 11
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<400> 15076

Ala Gln Phe Ser Gly Ser Ala Arg Val Ala Gln
1   5   10

<210> 15077
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<400> 15077

Ala Gln Arg Gln His Gln Leu Pro Met Ala Gln
1   5   10

<210> 15078
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<400> 15078

Ala Gln Pro Leu Arg Asn Ile Ser Ala Ala Gln
1   5   10

<210> 15079
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<400> 15079

Ala Gln Pro Tyr Ser Gly Gln Arg Thr Ala Gln
1   5   10

<210> 15080
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<400> 15080

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

<210> 15081
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<400> 15081

Ala Gln Pro Arg His Ala Thr Gln Ser Ala Gln
1   5   10

<210> 15082
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<400> 15082

Ala Gln Ser Lys Val Thr Pro Pro Leu Ala Gln
1   5   10

<210> 15083
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Ala Gln Asn Thr Ser Gly Val Pro Lys Ala Gln
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Ala Gln Thr Arg Ser Glu Val Met Lys Ala Gln
1   5   10

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Ala Gln Arg Thr Asp Val Arg Thr Asn Ala Gln
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<400> 15086

Ala Gln Met Leu Ser Gly Gln Ala Arg Ala Gln
1   5   10

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<400> 15087

Ala Gln Ser Met Leu Thr Ser Ile Val Ala Gln

1 5 10

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<400> 15088

Ala Gln Leu Arg Gly Ser Ala Gln Val Ala Gln
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<400> 15089

Ala Gln Lys Ala Ile Ser Thr Ala Asn Ala Gln
1 5 10

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<400> 15090

Ala Gln Ile Ser Gly Val Gln Thr Arg Ala Gln
1 5 10

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<400> 15091

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

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<400> 15092

Ala Gln Ala Asn Ala Met Gly Asp His Ala Gln
1 5 10

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<400> 15093

Ala Gln Asn Thr Leu Ile Asn Val Ser Ala Gln
1 5 10

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<400> 15094

Ala Gln Trp Ser Asp Pro Ser Asp Leu Ala Gln
1 5 10

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Ala Gln Arg Ile Ser Thr Leu Gly Leu Ala Gln
1   5   10

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<400> 15096

Ala Gln Phe Lys Val Ser Ile Gln Gln Ala Gln
1   5   10

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<400> 15097

Ala Gln Leu Ser Thr Ala Leu Thr Val Ala Gln
1   5   10

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<400> 15098

Ala Gln Ala Glu Tyr Asn Thr Gly Val Ala Gln
1   5   10

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<400> 15099

Ala Gln Ile Ser Ala Ser His Ser Arg Ala Gln
1   5   10

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<400> 15100

Ala Gln Val Asn Ser His Glu Arg Ala Ala Gln
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<400> 15101

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

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<400> 15102

Ala Gln Gly Ala Ala Gly Lys Ser Leu Ala Gln
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<400> 15103

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

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Ala Gln Lys Leu Ser Thr Leu His Gln Ala Gln
1   5   10

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<400> 15105

Ala Gln Met Arg Gly Gln Gly Val His Ala Gln
1   5   10

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<400> 15106

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

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<400> 15107

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

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<400> 15108

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

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<400> 15109

Ala Gln Gly His Ile Ser Ala Leu Ala Ala Gln
1   5   10

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<400> 15110

Ala Gln Ser Ile Ser Pro Pro Arg Thr Ala Gln
1 5 10

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<400> 15111

Ala Gln Phe Gln Gln Asp Thr Tyr Leu Ala Gln
1 5 10

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<400> 15112

Ala Gln Leu Leu Ala Thr Gly Leu Lys Ala Gln
1 5 10

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<400> 15113

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

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<400> 15114

Ala Gln Phe Asp Asn Pro Asn Asn Val Ala Gln
1   5   10

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<400> 15115

Ala Gln Tyr Leu Thr Ser Gly Gly Tyr Ala Gln
1   5   10

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<400> 15116

Ala Gln Arg Asp Thr Val Ser Arg Tyr Ala Gln
1   5   10

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<400> 15117

Ala Gln Ile Asn Lys Asp Asn Asn Gln Ala Gln
1   5   10

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<400> 15118

Ala Gln Met Ala Asn Thr Arg Ser Ala Ala Gln
1 5 10

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<400> 15119

Ala Gln Glu Ser Ile Gln Gln Leu Ser Ala Gln
1 5 10

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<400> 15120

Ala Gln Leu Thr Arg Val Gly Thr Val Ala Gln
1 5 10

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<400> 15121

Ala Gln Val Gln Val Ala Met Arg Ala Ala Gln
1 5 10

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<400> 15122

Ala Gln Thr Ala Ala His Val Ser Tyr Ala Gln
1   5   10

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<400> 15123

Ala Gln Pro Ser His Ala Arg Ala Ser Ala Gln
1   5   10

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<400> 15124

Ala Gln Asn Val Pro Thr Ser Pro Arg Ala Gln
1   5   10

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

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<400> 15126

Ala Gln Lys Ala Asn Ser Gln Ile Thr Ala Gln
1 5 10

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<400> 15127

Ala Gln Asn Asn Ser Gly His Ile Ser Ala Gln
1 5 10

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<400> 15128

Ala Gln Phe Leu Leu Thr Ser Asp Pro Ala Gln
1 5 10

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Ala Gln Val Lys Thr Asp Arg Val Leu Ala Gln
1   5   10

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<400> 15130

Ala Gln Val Ser Ile Ser Val Met Gly Ala Gln
1   5   10

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<400> 15131

Ala Gln Ala Gly Leu Ala His Ala Thr Ala Gln
1   5   10

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<400> 15132

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

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<400> 15133

Ala Gln Ser Val Pro Pro Asn Arg Asn Ala Gln
1 5 10

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<400> 15134

Ala Gln His Ser Gly Pro Thr Ser Ser Ala Gln
1 5 10

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<400> 15135

Ala Gln Lys Thr Asn Asn Thr Val Leu Ala Gln
1 5 10

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<400> 15136

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

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<400> 15137

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

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<400> 15138

Ala Gln Val Gly Ser Ser Asn Thr Tyr Ala Gln
1   5   10

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Ala Gln Leu Ile Ser Thr Thr His Arg Ala Gln
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Ala Gln Tyr Val Asn Ser Ala Pro Lys Ala Gln

1 5 10

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Ala Gln Asn Asn Asn Gln Lys Val Tyr Ala Gln
1 5 10

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Ala Gln Gly Thr Lys Thr His Ser Leu Ala Gln
1 5 10

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Ala Gln Pro Ile Ser Ala Asn Arg Leu Ala Gln
1 5 10

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Ala Gln His Pro Ser Leu Arg Gln Ser Ala Gln
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Ala Gln Pro Asn Arg Ala Ala Asn Asn Ala Gln
1 5 10

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Ala Gln Pro Ser His Ala Arg Ala Ser Ala Gln
1 5 10

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<400> 15147

Ala Gln Tyr Thr Leu Ser Gln Gly Trp Ala Gln
1 5 10

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Ala Gln Gln Ser Val Ser Lys Pro Phe Leu Ala Gln
1   5   10

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<400> 15149

Ala Gln Phe Thr Leu Thr Thr Pro Lys Ala Gln
1   5   10

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<400> 15150

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

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<400> 15151

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

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<400> 15152

Ala Gln Thr Leu Ala Thr Pro Phe Lys Ala Gln
1   5   10

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<400> 15153

Ala Thr Thr Leu Ala Thr Pro Phe Lys Ala Gln
1   5   10

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<400> 15154

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

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<400> 15155

Gly Gly Thr Leu Ala Thr Pro Phe Lys Ala Gln
1   5   10

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<400> 15156

Ser Gly Ser Leu Ala Val Pro Phe Lys Ala Gln
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<400> 15157

Ala Gln Thr Leu Ala Gln Pro Phe Lys Ala Gln
1   5   10

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<400> 15158

Ala Gln Thr Leu Ser Asn Pro Phe Lys Ala Gln
1   5   10

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<400> 15159

Ala Gln Thr Leu Ser Gln Pro Phe Lys Ala Gln
1   5   10

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<400> 15160

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

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<400> 15161

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

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<400> 15162

Asn Gln Thr Leu Ala Val Pro Phe Lys Ala Gln
1   5   10

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<400> 15163

Ser Gly Asn Leu Ala Val Pro Phe Lys Ala Gln
1 5 10

<210> 15164
<211> 11
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<400> 15164

Ala Thr Thr Leu Ala Val Pro Phe Lys Ala Gln
1 5 10

<210> 15165
<211> 11
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<400> 15165

Ala Gln Thr Leu Thr Met Pro Phe Lys Ala Gln
1 5 10

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<400> 15166

Ala Gln Thr Leu Ser Thr Pro Phe Lys Ala Gln
1 5 10

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<400> 15167

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

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<400> 15168

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

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<400> 15169

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

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<400> 15170

Ala Gln Asn Ser Arg Glu Val Asn Ile Ala Gln
1   5   10

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<400> 15171

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

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<400> 15172

Ala Gln Ile Gly Met Gly His Thr Leu Ala Gln
1   5   10

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<400> 15173

Ala Gln Thr Ala Glu Thr Lys Phe Leu Ala Gln
1   5   10

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<400> 15174

Ala Gln Lys Ala Thr Pro Pro Thr Glu Ala Gln
1   5   10

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<400> 15175

Ala Gln Ala Glu Thr Ser Arg Ser Val Ala Gln
1 5 10

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<400> 15176

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

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<400> 15177

Ala Gln Tyr Ala Leu Thr Asn Asp Arg Ala Gln
1 5 10

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<400> 15178

Ala Gln Ser Val Thr Asn Lys Met Leu Ala Gln
1   5   10

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<400> 15179

Ala Gln Ser Val Gln Ile Val Arg Gly Ala Gln
1   5   10

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<400> 15180

Ala Gln Tyr Pro Asn Thr Ser Gln Val Ala Gln
1   5   10

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<400> 15181

Ala Gln Tyr Thr Leu Ser Gln Gly Thr Ala Gln
1   5   10

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<400> 15182

Ala Gln Trp Gly Leu Asn Arg Gly Thr Ala Gln
1   5   10

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<400> 15183

Ala Gln Thr Pro Lys Asn Val Pro Asp Ala Gln
1   5   10

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<400> 15184

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

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<400> 15185

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

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<400> 15186

Ala Gln Thr Lys Ser Ser Tyr Gly Val Ala Gln
1 5 10

<210> 15187
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<400> 15187

Ala Gln Met Asn Ser Thr Lys Asn Val Ala Gln
1 5 10

<210> 15188
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<400> 15188

Ala Gln Ser Leu His His Gly Ser Ser Ala Gln
1 5 10

<210> 15189
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<400> 15189

Ala Gln Ser Ser Pro Gly Ala Met His Ala Gln
1 5 10

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<400> 15190

Ala Gln Ser Ser Tyr Asn Asp His Pro Ala Gln
1   5   10

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<400> 15191

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

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<400> 15192

Ala Gln Gln Gly Ser Leu Tyr Thr Ser Ala Gln
1   5   10

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<400> 15193

Ala Gln His Asn Ala Pro Gly Ser Leu Ala Gln

1 5 10

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<400> 15194

Ala Gln Ser Leu Ser Pro Thr Ile Asn Ala Gln
1 5 10

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<400> 15195

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

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<400> 15196

Ala Gln Glu Asn Arg Val Lys Ser Ala Ala Gln
1 5 10

<210> 15197
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<400> 15197

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