SEQUENCE LISTING

<110> Immatics US, Inc.

<120> METHODS FOR ACTIVATING, MODIFYING AND EXPANDING GAMMA DELTA T CELLS FOR

<130> 3000011-003977

<150> US62/591,041
<151> 2017-11-27

<150> DE102017127984.9
<151> 2017-11-27

<160> 5

<170> PatentIn version 3.5

<210> 1
<211> 559
<212> PRT
<213> Artificial Sequence

<220>
<223> RD114TR Fusion Protein

<400> 1

Met Lys Leu Pro Thr Gly Met Val Ile Leu Cys Ser Leu Ile Ile Val
1 5 10 15

Arg Ala Gly Phe Asp Asp Pro Arg Lys Ala Ile Ala Leu Val Gln Lys
20 25 30

Gln His Gly Lys Pro Cys Glu Cys Ser Gly Gly Gln Val Ser Glu Ala
35 40 45

Pro Pro Asn Ser Ile Gln Gln Val Thr Cys Pro Gly Lys Thr Ala Tyr
50 55 60

Leu Met Thr Asn Gln Lys Trp Lys Cys Arg Val Thr Pro Lys Ile Ser
65 70 75 80

Pro Ser Gly Gly Glu Leu Gln Asn Cys Pro Cys Asn Thr Phe Gln Asp
85 90 95

Ser Met His Ser Ser Cys Tyr Thr Glu Tyr Arg Gln Cys Arg Arg Ile

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            100                 105                 110

Asn Lys Thr Tyr Tyr Thr Ala Thr Leu Leu Lys Ile Arg Ser Gly Ser
        115                 120                 125

Leu Asn Glu Val Gln Ile Leu Gln Asn Pro Asn Gln Leu Leu Gln Ser
    130                 135                 140

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

Pro Ile His Ile Ser Asp Gly Gly Gly Pro Leu Asp Thr Lys Arg Val
                165                 170                 175

Trp Thr Val Gln Lys Arg Leu Glu Gln Ile His Lys Ala Met Thr Pro
            180                 185                 190

Glu Leu Gln Tyr His Pro Leu Ala Leu Pro Lys Val Arg Asp Asp Leu
        195                 200                 205

Ser Leu Asp Ala Arg Thr Phe Asp Ile Leu Asn Thr Thr Phe Arg Leu
    210                 215                 220

Leu Gln Met Ser Asn Phe Ser Leu Ala Gln Asp Cys Trp Leu Cys Leu
225                 230                 235                 240

Lys Leu Gly Thr Pro Thr Pro Leu Ala Ile Pro Thr Pro Ser Leu Thr
                245                 250                 255

Tyr Ser Leu Ala Asp Ser Leu Ala Asn Ala Ser Cys Gln Ile Ile Pro
            260                 265                 270

Pro Leu Leu Val Gln Pro Met Gln Phe Ser Asn Ser Ser Cys Leu Ser
        275                 280                 285

Ser Pro Phe Ile Asn Asp Thr Glu Gln Ile Asp Leu Gly Ala Val Thr
    290                 295                 300

Phe Thr Asn Cys Thr Ser Val Ala Asn Val Ser Ser Pro Leu Cys Ala
305                 310                 315                 320
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```
Leu Asn Gly Ser Val Phe Leu Cys Gly Asn Asn Met Ala Tyr Thr Tyr
                325                 330                 335

Leu Pro Gln Asn Trp Thr Arg Leu Cys Val Gln Ala Ser Leu Leu Pro
            340                 345                 350

Asp Ile Asp Ile Asn Pro Gly Asp Glu Pro Val Pro Ile Pro Ala Ile
        355                 360                 365

Asp His Tyr Ile His Arg Pro Lys Arg Ala Val Gln Phe Ile Pro Leu
    370                 375                 380

Leu Ala Gly Leu Gly Ile Thr Ala Ala Phe Thr Thr Gly Ala Thr Gly
385                 390                 395                 400

Leu Gly Val Ser Val Thr Gln Tyr Thr Lys Leu Ser His Gln Leu Ile
                405                 410                 415

Ser Asp Val Gln Val Leu Ser Gly Thr Ile Gln Asp Leu Gln Asp Gln
            420                 425                 430

Val Asp Ser Leu Ala Glu Val Val Leu Gln Asn Arg Arg Gly Leu Asp
        435                 440                 445

Leu Leu Thr Ala Glu Gln Gly Gly Ile Cys Leu Ala Leu Gln Glu Lys
    450                 455                 460

Cys Cys Phe Tyr Ala Asn Lys Ser Gly Ile Val Arg Asn Lys Ile Arg
465                 470                 475                 480

Thr Leu Gln Glu Glu Leu Gln Lys Arg Arg Glu Ser Leu Ala Ser Asn
                485                 490                 495

Pro Leu Trp Thr Gly Leu Gln Gly Phe Leu Pro Tyr Leu Leu Pro Leu
            500                 505                 510

Leu Gly Pro Leu Leu Thr Leu Leu Leu Ile Leu Thr Ile Gly Pro Cys
        515                 520                 525

Val Phe Asn Arg Leu Val Gln Phe Val Lys Asp Arg Ile Ser Val Val
```

```
    530                 535                 540

Gln Ala Leu Val Leu Thr Gln Gln Tyr His Gln Leu Lys Pro Leu
545                 550                 555
```

<210> 2
<211> 662
<212> PRT
<213> Feline Endogeneous Virus

<400> 2

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Met Lys Pro Pro Ala Gly Met Val Phe Leu Trp Val Leu Thr Ser Leu
1               5                   10                  15

Gly Ala Gly Ile Gly Ala Lys Ile Val Lys Glu Gly Asn Pro His Gln
            20                  25                  30

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

Trp Glu Val Gln Gly Asn His Ala Leu Asn Thr Trp Trp Pro Pro Leu
    50                  55                  60

Thr Pro Asp Phe Cys Gln Leu Ala Ala Gly Leu Asp Thr Trp Asp Ile
65                  70                  75                  80

Pro Ala Arg Ser Pro Lys Asn Leu Gln Ser Tyr Met Gly Glu Arg Ile
                85                  90                  95

Gln Gln Met Thr Ala His Gly Cys Ser Ser Pro Thr Ala Arg Cys Arg
            100                 105                 110

Leu Ala Gln Ala Glu Phe Tyr Val Cys Pro Arg Asp Asn Arg Asp Arg
        115                 120                 125

Ala Thr Ala His Arg Cys Gly Gly Tyr Glu Glu Tyr Phe Cys Ser Ala
    130                 135                 140

Trp Gly Cys Glu Thr Thr Gly Asp Ala Tyr Trp Gln Pro Thr Ser Ser
145                 150                 155                 160
```

```
Trp Asp Leu Ile Thr Ile Thr Arg Gly Tyr Thr Lys Pro Asp Pro Asp
                165                 170                 175

Gly His Thr Cys Tyr Tyr Lys Lys Gly Thr Glu Gly Tyr His His Trp
            180                 185                 190

Ile Ser Pro Leu Ser Leu Pro Leu Lys Ile Thr Phe Thr Asp Ser Gly
        195                 200                 205

Lys Arg Ala Leu Gly Trp Gln Thr Gly Tyr Thr Trp Gly Leu Arg Trp
    210                 215                 220

Tyr Leu Pro Gly Lys Asp Arg Gly Ile Val Leu Lys Ile Lys Leu Lys
225                 230                 235                 240

Ile Asp Thr Ile Thr Gln Thr Val Gly Pro Asn Leu Val Leu Ala Asp
                245                 250                 255

Gln Lys Ala Pro Val Gln Leu Ala Ile Pro Val Gln Pro Pro Arg Ala
            260                 265                 270

Pro Thr Gln Thr Pro Gly Ile Asn Pro Val Asn Ser Thr Leu Ser Pro
        275                 280                 285

Ser Leu Gly Tyr Pro Thr Pro Pro Leu Asp Arg Ala Gln Gly Asp Arg
    290                 295                 300

Leu Leu Asn Leu Val Gln Gly Val Tyr Leu Thr Leu Asn Leu Thr Ala
305                 310                 315                 320

Pro Asn Gln Thr Gln Asp Cys Trp Leu Cys Leu Thr Ala Lys Pro Pro
                325                 330                 335

Tyr Tyr Gln Gly Val Ala Ile Ile Gly Asn Phe Thr Asn His Thr Asn
            340                 345                 350

Ala Pro Leu Arg Cys Ser Thr Thr Pro Arg His Gly Leu Thr Leu Thr
        355                 360                 365

Glu Val Thr Gly His Gly Leu Cys Ile Gly Lys Ile Pro Pro Ser His
    370                 375                 380
```

```
Gln Asn Leu Cys Ser Gln Thr Ile Pro Ser Val Gly Gln Gly Pro Tyr
385                 390                 395                 400

Tyr Leu Thr Ala Pro Asn Gly Thr Tyr Trp Val Cys Asn Thr Gly Leu
                405                 410                 415

Thr Pro Cys Ile Ser Leu Gln Val Leu Asn Asn Thr Ala Asp Tyr Cys
            420                 425                 430

Ile Leu Ile Glu Leu Trp Pro Lys Ile Phe Tyr His Asp Ser Glu Tyr
        435                 440                 445

Ile Tyr Gly His Tyr Glu Pro Gly Gly Arg Phe Arg Arg Glu Pro Val
    450                 455                 460

Ser Leu Thr Val Ala Leu Leu Leu Gly Gly Leu Thr Met Gly Ser Leu
465                 470                 475                 480

Ala Ala Gly Ile Gly Thr Gly Thr Ala Ala Leu Ile Glu Thr Asn Gln
                485                 490                 495

Phe Lys Gln Leu Gln Ile Ala Met His Ser Asp Ile Gln Ala Leu Glu
            500                 505                 510

Glu Ser Ile Ser Ala Leu Glu Arg Ser Leu Thr Ser Leu Ser Glu Val
        515                 520                 525

Val Leu Gln Asn Arg Arg Gly Leu Asp Leu Leu Phe Leu Gln Glu Gly
    530                 535                 540

Gly Leu Cys Ala Ala Leu Lys Glu Glu Cys Cys Phe Tyr Ala Asp His
545                 550                 555                 560

Thr Gly Ile Val Arg Asp Ser Met Ala Lys Leu Arg Glu Arg Leu Lys
                565                 570                 575

Gln Arg Gln Lys Leu Phe Glu Ser Gln Gln Gly Trp Phe Glu Gly Trp
            580                 585                 590
```

```
Tyr Asn Lys Ser Pro Trp Phe Thr Thr Leu Val Ser Ser Leu Met Gly
        595                 600                 605

Pro Leu Ile Leu Leu Leu Leu Ile Leu Met Phe Gly Pro Cys Ile Leu
    610                 615                 620

Asn Arg Leu Val Gln Phe Ile Arg Glu Arg Leu Ser Val Ile Gln Ala
625                 630                 635                 640

Leu Val Leu Thr Gln Gln Tyr His Gln Leu Arg Gln Phe Asp Ala Glu
                645                 650                 655

Arg Pro Asp Thr Ile Glu
            660
```

<210> 3
<211> 511
<212> PRT
<213> Vesicular Stomatitis Virus

<400> 3

```
Met Lys Cys Leu Leu Tyr Leu Ala Phe Leu Phe Ile Gly Val Asn Cys
1               5                   10                  15

Lys Phe Thr Ile Val Phe Pro His Asn Gln Lys Gly Asn Trp Lys Asn
            20                  25                  30

Val Pro Ser Asn Tyr His Tyr Cys Pro Ser Ser Ser Asp Leu Asn Trp
        35                  40                  45

His Asn Asp Leu Ile Gly Thr Ala Leu Gln Val Lys Met Pro Lys Ser
    50                  55                  60

His Lys Ala Ile Gln Ala Asp Gly Trp Met Cys His Ala Ser Lys Trp
65                  70                  75                  80

Val Thr Thr Cys Asp Phe Arg Trp Tyr Gly Pro Lys Tyr Ile Thr His
                85                  90                  95

Ser Ile Arg Ser Phe Thr Pro Ser Val Glu Gln Cys Lys Glu Ser Ile
            100                 105                 110
```

```
Glu Gln Thr Lys Gln Gly Thr Trp Leu Asn Pro Gly Phe Pro Pro Gln
        115                 120                 125

Ser Cys Gly Tyr Ala Thr Val Thr Asp Ala Glu Ala Val Ile Val Gln
    130                 135                 140

Val Thr Pro His His Val Leu Val Asp Glu Tyr Thr Gly Glu Trp Val
145                 150                 155                 160

Asp Ser Gln Phe Ile Asn Gly Lys Cys Ser Asn Tyr Ile Cys Pro Thr
                165                 170                 175

Val His Asn Ser Thr Thr Trp His Ser Asp Tyr Lys Val Lys Gly Leu
            180                 185                 190

Cys Asp Ser Asn Leu Ile Ser Met Asp Ile Thr Phe Phe Ser Glu Asp
        195                 200                 205

Gly Glu Leu Ser Ser Leu Gly Lys Glu Gly Thr Gly Phe Arg Ser Asn
    210                 215                 220

Tyr Phe Ala Tyr Glu Thr Gly Gly Lys Ala Cys Lys Met Gln Tyr Cys
225                 230                 235                 240

Lys His Trp Gly Val Arg Leu Pro Ser Gly Val Trp Phe Glu Met Ala
                245                 250                 255

Asp Lys Asp Leu Phe Ala Ala Ala Arg Phe Pro Glu Cys Pro Glu Gly
            260                 265                 270

Ser Ser Ile Ser Ala Pro Ser Gln Thr Ser Val Asp Val Ser Leu Ile
        275                 280                 285

Gln Asp Val Glu Arg Ile Leu Asp Tyr Ser Leu Cys Gln Glu Thr Trp
    290                 295                 300

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

Leu Ala Pro Lys Asn Pro Gly Thr Gly Pro Ala Phe Thr Ile Ile Asn
```

```
                325                 330                 335

Gly Thr Leu Lys Tyr Phe Glu Thr Arg Tyr Ile Arg Val Asp Ile Ala
            340                 345                 350

Ala Pro Ile Leu Ser Arg Met Val Gly Met Ile Ser Gly Thr Thr Thr
        355                 360                 365

Glu Arg Glu Leu Trp Asp Asp Trp Ala Pro Tyr Glu Asp Val Glu Ile
    370                 375                 380

Gly Pro Asn Gly Val Leu Arg Thr Ser Ser Gly Tyr Lys Phe Pro Leu
385                 390                 395                 400

Tyr Met Ile Gly His Gly Met Leu Asp Ser Asp Leu His Leu Ser Ser
                405                 410                 415

Lys Ala Gln Val Phe Glu His Pro His Ile Gln Asp Ala Ala Ser Gln
            420                 425                 430

Leu Pro Asp Asp Glu Ser Leu Phe Phe Gly Asp Thr Gly Leu Ser Lys
        435                 440                 445

Asn Pro Ile Glu Leu Val Glu Gly Trp Phe Ser Ser Trp Lys Ser Ser
    450                 455                 460

Ile Ala Ser Phe Phe Phe Ile Ile Gly Leu Ile Ile Gly Leu Phe Leu
465                 470                 475                 480

Val Leu Arg Val Gly Ile His Leu Cys Ile Lys Leu Lys His Thr Lys
                485                 490                 495

Lys Arg Gln Ile Tyr Thr Asp Ile Glu Met Asn Arg Leu Gly Lys
            500                 505                 510
```

<210> 4
<211> 685
<212> PRT
<213> Gibbon ape leukemia virus

<400> 4

```
Met Val Leu Leu Pro Gly Ser Met Leu Leu Thr Ser Asn Leu His His
1               5                  10                  15

Leu Arg His Gln Met Ser Pro Gly Ser Trp Lys Arg Leu Ile Ile Leu
            20                  25                  30

Leu Ser Cys Val Phe Gly Gly Gly Gly Thr Ser Leu Gln Asn Lys Asn
        35                  40                  45

Pro His Gln Pro Met Thr Leu Thr Trp Gln Val Leu Ser Gln Thr Gly
    50                  55                  60

Asp Val Val Trp Asp Thr Lys Ala Val Gln Pro Pro Trp Thr Trp Trp
65                  70                  75                  80

Pro Thr Leu Lys Pro Asp Val Cys Ala Leu Ala Ala Ser Leu Glu Ser
                85                  90                  95

Trp Asp Ile Pro Gly Thr Asp Val Ser Ser Ser Lys Arg Val Arg Pro
            100                 105                 110

Pro Asp Ser Asp Tyr Thr Ala Ala Tyr Lys Gln Ile Thr Trp Gly Ala
        115                 120                 125

Ile Gly Cys Ser Tyr Pro Arg Ala Arg Thr Arg Met Ala Ser Ser Thr
    130                 135                 140

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

Cys Gly Gly Leu Glu Ser Leu Tyr Cys Lys Glu Trp Asp Cys Glu Thr
                165                 170                 175

Thr Gly Thr Gly Tyr Trp Leu Ser Lys Ser Ser Lys Asp Leu Ile Thr
            180                 185                 190

Val Lys Trp Asp Gln Asn Ser Glu Trp Thr Gln Lys Phe Gln Gln Cys
        195                 200                 205

His Gln Thr Gly Trp Cys Asn Pro Leu Lys Ile Asp Phe Thr Asp Lys
    210                 215                 220
```

```
Gly Lys Leu Ser Lys Asp Trp Ile Thr Gly Lys Thr Trp Gly Leu Arg
225                 230                 235                 240

Phe Tyr Val Ser Gly His Pro Gly Val Gln Phe Thr Ile Arg Leu Lys
                245                 250                 255

Ile Thr Asn Met Pro Ala Val Ala Val Gly Pro Asp Leu Val Leu Val
            260                 265                 270

Glu Gln Gly Pro Pro Arg Thr Ser Leu Ala Leu Pro Pro Pro Leu Pro
        275                 280                 285

Pro Arg Glu Ala Pro Pro Pro Ser Leu Pro Asp Ser Asn Ser Thr Ala
    290                 295                 300

Leu Ala Thr Ser Ala Gln Thr Pro Thr Val Arg Lys Thr Ile Val Thr
305                 310                 315                 320

Leu Asn Thr Pro Pro Pro Thr Thr Gly Asp Arg Leu Phe Asp Leu Val
                325                 330                 335

Gln Gly Ala Phe Leu Thr Leu Asn Ala Thr Asn Pro Gly Ala Thr Glu
            340                 345                 350

Ser Cys Trp Leu Cys Leu Ala Met Gly Pro Pro Tyr Tyr Glu Ala Ile
        355                 360                 365

Ala Ser Ser Gly Glu Val Ala Tyr Ser Thr Asp Leu Asp Arg Cys Arg
    370                 375                 380

Trp Gly Thr Gln Gly Lys Leu Thr Leu Thr Glu Val Ser Gly His Gly
385                 390                 395                 400

Leu Cys Ile Gly Lys Val Pro Phe Thr His Gln His Leu Cys Asn Gln
                405                 410                 415

Thr Leu Ser Ile Asn Ser Ser Gly Asp His Gln Tyr Leu Leu Pro Ser
            420                 425                 430
```

```
Asn His Ser Trp Trp Ala Cys Ser Thr Gly Leu Thr Pro Cys Leu Ser
        435                 440                 445

Thr Ser Val Phe Asn Gln Thr Arg Asp Phe Cys Ile Gln Val Gln Leu
    450                 455                 460

Ile Pro Arg Ile Tyr Tyr Tyr Pro Glu Glu Val Leu Leu Gln Ala Tyr
465                 470                 475                 480

Asp Asn Ser His Pro Arg Thr Lys Arg Glu Ala Val Ser Leu Thr Leu
                485                 490                 495

Ala Val Leu Leu Gly Leu Gly Ile Thr Ala Gly Ile Gly Thr Gly Ser
            500                 505                 510

Thr Ala Leu Ile Lys Gly Pro Ile Asp Leu Gln Gln Gly Leu Thr Ser
        515                 520                 525

Leu Gln Ile Ala Ile Asp Ala Asp Leu Arg Ala Leu Gln Asp Ser Val
    530                 535                 540

Ser Lys Leu Glu Asp Ser Leu Thr Ser Leu Ser Glu Val Val Leu Gln
545                 550                 555                 560

Asn Arg Arg Gly Leu Asp Leu Leu Phe Leu Lys Glu Gly Gly Leu Cys
                565                 570                 575

Ala Ala Leu Lys Glu Glu Cys Cys Phe Tyr Ile Asp His Ser Gly Ala
            580                 585                 590

Val Arg Asp Ser Met Lys Lys Leu Lys Glu Lys Leu Asp Lys Arg Gln
        595                 600                 605

Leu Glu Arg Gln Lys Ser Gln Asn Trp Tyr Glu Gly Trp Phe Asn Asn
    610                 615                 620

Ser Pro Trp Phe Thr Thr Leu Leu Ser Thr Ile Ala Gly Pro Leu Leu
625                 630                 635                 640

Leu Leu Leu Leu Leu Leu Ile Leu Gly Pro Cys Ile Ile Asn Lys Leu
                645                 650                 655
```

Val Gln Phe Ile Asn Asp Arg Ile Ser Ala Val Lys Ile Leu Val Leu
660 665 670

Arg Gln Lys Tyr Gln Ala Leu Glu Asn Glu Gly Asn Leu
675 680 685

<210> 5
<211> 565
<212> PRT
<213> Artificial Sequence

<220>
<223> RD114TR fusion protein

<400> 5

Met Lys Leu Pro Thr Gly Met Val Ile Leu Cys Ser Leu Ile Ile Val
1 5 10 15

Arg Ala Gly Phe Asp Asp Pro Arg Lys Ala Ile Ala Leu Val Gln Lys
20 25 30

Gln His Gly Lys Pro Cys Glu Cys Ser Gly Gly Gln Val Ser Glu Ala
35 40 45

Pro Pro Asn Ser Ile Gln Gln Val Thr Cys Pro Gly Lys Thr Ala Tyr
50 55 60

Leu Met Thr Asn Gln Lys Trp Lys Cys Arg Val Thr Pro Lys Asn Leu
65 70 75 80

Thr Pro Ser Gly Gly Glu Leu Gln Asn Cys Pro Cys Asn Thr Phe Gln
85 90 95

Asp Ser Met His Ser Ser Cys Tyr Thr Glu Tyr Arg Gln Cys Arg Ala
100 105 110

Asn Asn Lys Thr Tyr Tyr Thr Ala Thr Leu Leu Lys Ile Arg Ser Gly
115 120 125

Ser Leu Asn Glu Val Gln Ile Leu Gln Asn Pro Asn Gln Leu Leu Gln
130 135 140

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

Ala Pro Ile His Ile Ser Asp Gly Gly Gly Pro Leu Asp Thr Lys Arg
                165                 170                 175

Val Trp Thr Val Gln Lys Arg Leu Glu Gln Ile His Lys Ala Met His
            180                 185                 190

Pro Glu Leu Gln Tyr His Pro Leu Ala Leu Pro Lys Val Arg Asp Asp
        195                 200                 205

Leu Ser Leu Asp Ala Arg Thr Phe Asp Ile Leu Asn Thr Thr Phe Arg
    210                 215                 220

Leu Leu Gln Met Ser Asn Phe Ser Leu Ala Gln Asp Cys Trp Leu Cys
225                 230                 235                 240

Leu Lys Leu Gly Thr Pro Thr Pro Leu Ala Ile Pro Thr Pro Ser Leu
                245                 250                 255

Thr Tyr Ser Leu Ala Asp Ser Leu Ala Asn Ala Ser Cys Gln Ile Ile
            260                 265                 270

Pro Pro Leu Leu Val Gln Pro Met Gln Phe Ser Asn Ser Ser Cys Leu
        275                 280                 285

Ser Ser Pro Phe Ile Asn Asp Thr Glu Gln Ile Asp Leu Gly Ala Val
    290                 295                 300

Thr Phe Thr Asn Cys Thr Ser Val Ala Asn Val Ser Ser Pro Leu Cys
305                 310                 315                 320

Ala Leu Asn Gly Ser Val Phe Leu Cys Gly Asn Asn Met Ala Tyr Thr
                325                 330                 335

Tyr Leu Pro Gln Asn Trp Thr Gly Leu Cys Val Gln Ala Ser Leu Leu
            340                 345                 350
```

```
Pro Asp Ile Asp Ile Ile Pro Gly Asp Glu Pro Val Pro Ile Pro Ala
        355                 360                 365

Ile Asp His Tyr Ile His Arg Pro Lys Arg Ala Val Gln Phe Ile Pro
    370                 375                 380

Leu Leu Ala Gly Leu Gly Ile Thr Ala Ala Phe Thr Thr Gly Ala Thr
385                 390                 395                 400

Gly Leu Gly Val Ser Val Thr Gln Tyr Thr Lys Leu Ser His Gln Leu
                405                 410                 415

Ile Ser Asp Val Gln Val Leu Ser Gly Thr Ile Gln Asp Leu Gln Asp
            420                 425                 430

Gln Val Asp Ser Leu Ala Glu Val Val Leu Gln Asn Arg Arg Gly Leu
        435                 440                 445

Asp Leu Leu Thr Ala Glu Gln Gly Gly Ile Cys Leu Ala Leu Gln Glu
    450                 455                 460

Lys Cys Cys Phe Tyr Ala Asn Lys Ser Gly Ile Val Arg Asn Lys Ile
465                 470                 475                 480

Arg Thr Leu Gln Glu Glu Leu Gln Lys Arg Arg Glu Ser Leu Ala Ser
                485                 490                 495

Asn Pro Leu Trp Thr Gly Leu Gln Gly Phe Leu Pro Tyr Leu Leu Pro
            500                 505                 510

Leu Leu Gly Pro Leu Leu Thr Leu Leu Leu Ile Leu Thr Ile Gly Pro
        515                 520                 525

Cys Val Phe Ser Arg Leu Met Ala Phe Ile Asn Asp Arg Leu Asn Val
    530                 535                 540

Val His Ala Met Val Leu Ala Gln Gln Tyr Gln Ala Leu Lys Ala Glu
545                 550                 555                 560

Glu Glu Ala Gln Asp
                565
```