SEQUENCE LISTING

<110> GENENTECH, INC. ET AL.

<120> ANTI-HTRA1 ANTIBODIES AND METHODS OF USE

<130> P4761R1-WO

<140>
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<150> 61/547,649
<151> 2011-10-14

<160> 90

<170> PatentIn version 3.5

<210> 1
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1
Arg Ala Ser Gln Asp Val Ser Thr Ala Val Ala
1 5 10

<210> 2
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 2
Ser Ala Ser Phe Leu Tyr Ser
1 5

<210> 3
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 3
Gln Gln Ser Tyr Thr Thr Pro Pro Thr
1 5

<210> 4
<211> 10
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 4
Gly Phe Asn Ile Ser Gly Tyr Tyr Ile His
1 5 10

<210> 5
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 5
Trp Ile Asp Pro Tyr Gly Gly Asp Thr Asn Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 6
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 6
Gly Thr Phe Leu Thr Ser Trp Gly His Tyr Phe Asp Tyr
1 5 10

<210> 7
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 7
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 8
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 8
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Ser Gly Tyr
20 25 30

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

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

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

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

Ala Arg Gly Thr Phe Leu Thr Ser Trp Gly His Tyr Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Thr
115

<210> 9
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 9
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 10
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 10
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

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

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

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

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

Ala Arg Gly Phe Asp Tyr Trp Gly Gln Gly Thr
100 105

<210> 11
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 11

Met Lys His Gln His Gln His Gln His Gln His Gln Met His
1 5 10 15

Gln Ser Thr Ala Ala
20

<210> 12
<211> 10
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> N-term Mca

<220>
<221> MOD_RES
<222> (9)..(9)
<223> Lys(DNP)

<400> 12
Ile Arg Arg Val Ser Tyr Ser Phe Lys Lys
1 5 10

<210> 13
<211> 480
<212> PRT
<213> Homo sapiens

<400> 13
Met Gln Ile Pro Arg Ala Ala Leu Leu Pro Leu Leu Leu Leu Leu Leu
1 5 10 15

Ala Ala Pro Ala Ser Ala Gln Leu Ser Arg Ala Gly Arg Ser Ala Pro
20 25 30

Leu Ala Ala Gly Cys Pro Asp Arg Cys Glu Pro Ala Arg Cys Pro Pro
35 40 45

Gln Pro Glu His Cys Glu Gly Gly Arg Ala Arg Asp Ala Cys Gly Cys
50 55 60

Cys Glu Val Cys Gly Ala Pro Glu Gly Ala Ala Cys Gly Leu Gln Glu
65 70 75 80

Gly Pro Cys Gly Glu Gly Leu Gln Cys Val Val Pro Phe Gly Val Pro
85 90 95

Ala Ser Ala Thr Val Arg Arg Arg Ala Gln Ala Gly Leu Cys Val Cys
100 105 110

Ala Ser Ser Glu Pro Val Cys Gly Ser Asp Ala Asn Thr Tyr Ala Asn
115 120 125

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Leu Cys Gln Leu Arg Ala Ala Ser Arg Arg Ser Glu Arg Leu His Arg
    130                 135                 140

Pro Pro Val Ile Val Leu Gln Arg Gly Ala Cys Gly Gln Gly Gln Glu
145                 150                 155                 160

Asp Pro Asn Ser Leu Arg His Lys Tyr Asn Phe Ile Ala Asp Val Val
                165                 170                 175

Glu Lys Ile Ala Pro Ala Val Val His Ile Glu Leu Phe Arg Lys Leu
            180                 185                 190

Pro Phe Ser Lys Arg Glu Val Pro Val Ala Ser Gly Ser Gly Phe Ile
        195                 200                 205

Val Ser Glu Asp Gly Leu Ile Val Thr Asn Ala His Val Val Thr Asn
    210                 215                 220

Lys His Arg Val Lys Val Glu Leu Lys Asn Gly Ala Thr Tyr Glu Ala
225                 230                 235                 240

Lys Ile Lys Asp Val Asp Glu Lys Ala Asp Ile Ala Leu Ile Lys Ile
                245                 250                 255

Asp His Gln Gly Lys Leu Pro Val Leu Leu Leu Gly Arg Ser Ser Glu
            260                 265                 270

Leu Arg Pro Gly Glu Phe Val Val Ala Ile Gly Ser Pro Phe Ser Leu
        275                 280                 285

Gln Asn Thr Val Thr Thr Gly Ile Val Ser Thr Thr Gln Arg Gly Gly
    290                 295                 300

Lys Glu Leu Gly Leu Arg Asn Ser Asp Met Asp Tyr Ile Gln Thr Asp
305                 310                 315                 320

Ala Ile Ile Asn Tyr Gly Asn Ser Gly Gly Pro Leu Val Asn Leu Asp
                325                 330                 335

Gly Glu Val Ile Gly Ile Asn Thr Leu Lys Val Thr Ala Gly Ile Ser
            340                 345                 350

Phe Ala Ile Pro Ser Asp Lys Ile Lys Lys Phe Leu Thr Glu Ser His
        355                 360                 365

Asp Arg Gln Ala Lys Gly Lys Ala Ile Thr Lys Lys Lys Tyr Ile Gly
    370                 375                 380

Ile Arg Met Met Ser Leu Thr Ser Ser Lys Ala Lys Glu Leu Lys Asp
385                 390                 395                 400
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Arg His Arg Asp Phe Pro Asp Val Ile Ser Gly Ala Tyr Ile Ile Glu
                405                 410                 415

Val Ile Pro Asp Thr Pro Ala Glu Ala Gly Gly Leu Lys Glu Asn Asp
            420                 425                 430

Val Ile Ile Ser Ile Asn Gly Gln Ser Val Val Ser Ala Asn Asp Val
        435                 440                 445

Ser Asp Val Ile Lys Arg Glu Ser Thr Leu Asn Met Val Val Arg Arg
    450                 455                 460

Gly Asn Glu Asp Ile Met Ile Thr Val Ile Pro Glu Glu Ile Asp Pro
465                 470                 475                 480
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<210> 14
<211> 480
<212> PRT
<213> Mus musculus

<400> 14

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Met Gln Ser Leu Arg Thr Thr Leu Leu Ser Leu Leu Leu Leu Leu Leu
1               5                   10                  15

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

Ala Ala Thr Val Cys Pro Glu His Cys Asp Pro Thr Arg Cys Ala Pro
        35                  40                  45

Pro Pro Thr Asp Cys Glu Gly Gly Arg Val Arg Asp Ala Cys Gly Cys
    50                  55                  60

Cys Glu Val Cys Gly Ala Leu Glu Gly Ala Ala Cys Gly Leu Gln Glu
65                  70                  75                  80

Gly Pro Cys Gly Glu Gly Leu Gln Cys Val Val Pro Phe Gly Val Pro
                85                  90                  95

Ala Ser Ala Thr Val Arg Arg Arg Ala Gln Ala Gly Leu Cys Val Cys
            100                 105                 110

Ala Ser Ser Glu Pro Val Cys Gly Ser Asp Ala Lys Thr Tyr Thr Asn
        115                 120                 125

Leu Cys Gln Leu Arg Ala Ala Ser Arg Arg Ser Glu Lys Leu Arg Gln
    130                 135                 140

Pro Pro Val Ile Val Leu Gln Arg Gly Ala Cys Gly Gln Gly Gln Glu
145                 150                 155                 160

Asp Pro Asn Ser Leu Arg His Lys Tyr Asn Phe Ile Ala Asp Val Val
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                165                 170                 175

Glu Lys Ile Ala Pro Ala Val Val His Ile Glu Leu Tyr Arg Lys Leu
            180                 185                 190

Pro Phe Ser Lys Arg Glu Val Pro Val Ala Ser Gly Ser Gly Phe Ile
        195                 200                 205

Val Ser Glu Asp Gly Leu Ile Val Thr Asn Ala His Val Val Thr Asn
    210                 215                 220

Lys Asn Arg Val Lys Val Glu Leu Lys Asn Gly Ala Thr Tyr Glu Ala
225                 230                 235                 240

Lys Ile Lys Asp Val Asp Glu Lys Ala Asp Ile Ala Leu Ile Lys Ile
                245                 250                 255

Asp His Gln Gly Lys Leu Pro Val Leu Leu Leu Gly Arg Ser Ser Glu
            260                 265                 270

Leu Arg Pro Gly Glu Phe Val Val Ala Ile Gly Ser Pro Phe Ser Leu
        275                 280                 285

Gln Asn Thr Val Thr Thr Gly Ile Val Ser Thr Thr Gln Arg Gly Gly
    290                 295                 300

Lys Glu Leu Gly Leu Arg Asn Ser Asp Met Asp Tyr Ile Gln Thr Asp
305                 310                 315                 320

Ala Ile Ile Asn Tyr Gly Asn Ser Gly Gly Pro Leu Val Asn Leu Asp
                325                 330                 335

Gly Glu Val Ile Gly Ile Asn Thr Leu Lys Val Thr Ala Gly Ile Ser
            340                 345                 350

Phe Ala Ile Pro Ser Asp Lys Ile Lys Lys Phe Leu Thr Glu Ser His
        355                 360                 365

Asp Arg Gln Ala Lys Gly Lys Ala Val Thr Lys Lys Lys Tyr Ile Gly
    370                 375                 380

Ile Arg Met Met Ser Leu Thr Ser Ser Lys Ala Lys Glu Leu Lys Asp
385                 390                 395                 400

Arg His Arg Asp Phe Pro Asp Val Leu Ser Gly Ala Tyr Ile Ile Glu
                405                 410                 415

Val Ile Pro Asp Thr Pro Ala Glu Ala Gly Gly Leu Lys Glu Asn Asp
            420                 425                 430

Val Ile Ile Ser Ile Asn Gly Gln Ser Val Val Thr Ala Asn Asp Val
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435 440 445

Ser Asp Val Ile Lys Lys Glu Asn Thr Leu Asn Met Val Val Arg Arg
450 455 460

Gly Asn Glu Asp Ile Val Ile Thr Val Ile Pro Glu Glu Ile Asp Pro
465 470 475 480

<210> 15
<211> 459
<212> PRT
<213> Mus musculus

<400> 15
Met Gln Ala Arg Ala Leu Leu Pro Ala Thr Leu Ala Ile Leu Ala Thr
1 5 10 15

Leu Ala Val Leu Ala Leu Ala Arg Glu Pro Pro Ala Ala Pro Cys Pro
20 25 30

Ala Arg Cys Asp Val Ser Arg Cys Pro Ser Pro Arg Cys Pro Gly Gly
35 40 45

Tyr Val Pro Asp Leu Cys Asn Cys Cys Leu Val Cys Ala Ala Ser Glu
50 55 60

Gly Glu Pro Cys Gly Arg Pro Leu Asp Ser Pro Cys Gly Asp Ser Leu
65 70 75 80

Glu Cys Val Arg Gly Val Cys Arg Cys Arg Trp Thr His Thr Val Cys
85 90 95

Gly Thr Asp Gly His Thr Tyr Ala Asp Val Cys Ala Leu Gln Ala Ala
100 105 110

Ser Arg Arg Ala Leu Gln Val Ser Gly Thr Pro Val Arg Gln Leu Gln
115 120 125

Lys Gly Ala Cys Pro Ser Gly Leu His Gln Leu Thr Ser Pro Arg Tyr
130 135 140

Lys Phe Asn Phe Ile Ala Asp Val Val Glu Lys Ile Ala Pro Ala Val
145 150 155 160

Val His Ile Glu Leu Phe Leu Arg His Pro Leu Phe Gly Arg Asn Val
165 170 175

Pro Leu Ser Ser Gly Ser Gly Phe Ile Met Ser Glu Ala Gly Leu Ile
180 185 190

Val Thr Asn Ala His Val Val Ser Ser Ser Ser Thr Ala Ser Gly Arg
195 200 205

```
Gln Gln Leu Lys Val Gln Leu Gln Asn Gly Asp Ala Tyr Glu Ala Thr
    210                 215                 220

Ile Gln Asp Ile Asp Lys Lys Ser Asp Ile Ala Thr Ile Val Ile His
225                 230                 235                 240

Pro Lys Lys Lys Leu Pro Val Leu Leu Leu Gly His Ser Ala Asp Leu
                245                 250                 255

Arg Pro Gly Glu Phe Val Val Ala Ile Gly Ser Pro Phe Ala Leu Gln
            260                 265                 270

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

Glu Leu Gly Leu Arg Asp Ser Asp Met Asp Tyr Ile Gln Thr Asp Ala
    290                 295                 300

Ile Ile Asn Tyr Gly Asn Ser Gly Gly Pro Leu Val Asn Leu Asp Gly
305                 310                 315                 320

Glu Val Ile Gly Ile Asn Thr Leu Lys Val Ala Ala Gly Ile Ser Phe
                325                 330                 335

Ala Ile Pro Ser Asp Arg Ile Thr Arg Phe Leu Ser Glu Phe Gln Asn
            340                 345                 350

Lys His Val Lys Asp Trp Lys Lys Arg Phe Ile Gly Ile Arg Met Arg
        355                 360                 365

Thr Ile Thr Pro Ser Leu Val Glu Glu Leu Lys Ala Ala Asn Pro Asp
    370                 375                 380

Phe Pro Ala Val Ser Ser Gly Ile Tyr Val Gln Glu Val Val Pro Asn
385                 390                 395                 400

Ser Pro Ser Gln Arg Gly Gly Ile Gln Asp Gly Asp Ile Ile Val Lys
                405                 410                 415

Val Asn Gly Arg Pro Leu Ala Asp Ser Ser Glu Leu Gln Glu Ala Val
            420                 425                 430

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

Leu Leu Phe Ser Ile Ile Pro Glu Val Val Met
    450                 455
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<210> 16
<211> 483
<212> PRT

<213> Mus musculus

<400> 16
Met Ser Phe Gln Arg Leu Trp Ala Val Arg Thr Gln Phe Leu Leu Leu
1 5 10 15

Trp Leu Leu Leu Pro Ala Val Pro Val Pro Trp Ala Glu Ala Arg Arg
20 25 30

Ser Arg Val Ser Leu Pro Cys Pro Asp Ala Cys Asp Pro Thr Arg Cys
35 40 45

Pro Thr Leu Pro Thr Cys Ser Ala Gly Leu Ala Pro Val Pro Asp Arg
50 55 60

Cys Gly Cys Cys Arg Val Cys Ala Ala Ala Glu Gly Gln Glu Cys Gly
65 70 75 80

Gly Ala Arg Gly Arg Pro Cys Ala Pro Arg Leu Arg Cys Gly Ala Pro
85 90 95

Phe Ser Arg Asp Pro Ser Gly Gly Ala Trp Leu Gly Thr Cys Gly Cys
100 105 110

Ala Glu Gly Ala Glu Asp Ala Val Val Cys Gly Ser Asp Gly Arg Thr
115 120 125

Tyr Pro Ser Leu Cys Ala Leu Arg Lys Glu Asn Arg Ala Ala Arg Gln
130 135 140

Arg Gly Ala Leu Pro Ala Val Pro Val Gln Lys Gly Ala Cys Glu Glu
145 150 155 160

Ala Gly Thr Thr Arg Ala Gly Arg Leu Arg Arg Lys Tyr Asn Phe Ile
165 170 175

Ala Ala Val Val Glu Lys Val Ala Pro Ser Val Val His Leu Gln Leu
180 185 190

Phe Arg Arg Ser Pro Leu Thr Asn Gln Glu Ile Pro Ser Ser Ser Gly
195 200 205

Ser Gly Phe Ile Val Ser Glu Asp Gly Leu Ile Val Thr Asn Ala His
210 215 220

Val Leu Thr Asn Gln Gln Lys Ile Gln Val Glu Leu Gln Ser Gly Ala
225 230 235 240

Arg Tyr Glu Ala Thr Val Lys Asp Ile Asp His Lys Leu Asp Leu Ala
245 250 255

Leu Ile Lys Ile Glu Pro Asp Thr Glu Leu Pro Val Leu Leu Leu Gly

260 265 270

Arg Ser Ser Asp Leu Arg Ala Gly Glu Phe Val Val Ala Leu Gly Ser
275 280 285

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

Gln Arg Gly Gly Arg Glu Leu Gly Leu Lys Asn Ser Asp Ile Asp Tyr
305 310 315 320

Ile Gln Thr Asp Ala Ile Ile Asn His Gly Asn Ser Gly Gly Pro Leu
325 330 335

Val Asn Leu Asp Gly Asp Val Ile Gly Ile Asn Thr Leu Lys Val Thr
340 345 350

Ala Gly Ile Ser Phe Ala Ile Pro Ser Asp Arg Ile Arg Gln Phe Leu
355 360 365

Glu Asp Tyr His Glu Arg Gln Leu Lys Gly Lys Ala Pro Leu Gln Lys
370 375 380

Lys Tyr Leu Gly Leu Arg Met Leu Pro Leu Thr Leu Asn Leu Leu Gln
385 390 395 400

Glu Met Lys Arg Gln Asp Pro Glu Phe Pro Asp Val Ser Ser Gly Val
405 410 415

Phe Val Tyr Glu Val Ile Gln Gly Ser Ala Ala Ala Ser Ser Gly Leu
420 425 430

Arg Asp His Asp Val Ile Val Ser Ile Asn Gly Gln Pro Val Thr Thr
435 440 445

Thr Thr Asp Val Ile Glu Ala Val Lys Asp Asn Asp Phe Leu Ser Ile
450 455 460

Ile Val Leu Arg Gly Ser Gln Thr Leu Phe Leu Thr Val Thr Pro Glu
465 470 475 480

Ile Ile Asn

<210> 17
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 17
Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly
1   5   10

<210> 18
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<400> 18
Arg Ala Ser Gln Ser Ile Asn Thr Tyr Leu Ala
1   5   10

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

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<400> 19
Gln Gln Ser Asp Asp Thr Pro Pro Thr
1   5

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

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<400> 20
Gly Phe Ser Ile Ser Gly Tyr Tyr Ile His
1   5   10

<210> 21
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<400> 21
Arg Ala Ser Gln Val Val Gly Asn Tyr Leu Ala
1   5   10

<210> 22
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<400> 22
Gln Gln Ser Asp Asp His Pro Pro Thr
1 5

<210> 23
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Consensus peptide

<220>
<221> MOD_RES
<222> (5)..(5)
<223> Asp, Ser or Val

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Val or Ile

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Ser, Asn or Gly

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Thr or Asn

<220>
<221> MOD_RES
<222> (9)..(9)
<223> Ala or Tyr

<220>
<221> MOD_RES
<222> (10)..(10)
<223> Val or Leu

<400> 23
Arg Ala Ser Gln Xaa Xaa Xaa Xaa Xaa Xaa Ala
1 5 10

<210> 24
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Consensus peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Ser, Val or Asp

<220>

<221> MOD_RES
<222> (4)..(4)
<223> Tyr, Asp or Ser

<220>
<221> MOD_RES
<222> (5)..(5)
<223> Thr, Ser, Ala, Asp or Asn

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Thr, His, Asn, Ser, Ala, Leu or Arg

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Pro, Thr, Ala or Ser

<400> 24
Gln Gln Xaa Xaa Xaa Xaa Pro Xaa Thr
1 5

<210> 25
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Consensus peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Asn, Ser or Thr

<220>
<221> MOD_RES
<222> (5)..(5)
<223> Ser, Asp, Tyr or Ala

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Gly or Asp

<400> 25
Gly Phe Xaa Ile Xaa Xaa Tyr Tyr Ile His
1 5 10

<210> 26
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Consensus peptide

<220>
<221> MOD_RES
<222> (10)..(10)
<223> Asn or Asp

<400> 26
Trp Ile Asp Pro Tyr Gly Gly Asp Thr Xaa Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 27
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Consensus peptide

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Ser or Thr

<400> 27
Gly Thr Phe Leu Thr Xaa Trp Gly His Tyr Phe Asp Tyr
1 5 10

<210> 28
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 28
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 29
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 29
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Ile Ser Gly Tyr
20 25 30

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

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

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

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

Ala Arg Gly Thr Phe Leu Thr Ser Trp Gly His Tyr Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Thr
115

<210> 30
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 30
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

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

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 31
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Consensus polypeptide

<220>
<221> MOD_RES
<222> (28)..(28)
<223> Asp, Ser or Val

<220>
<221> MOD_RES
<222> (29)..(29)
<223> Val or Ile

<220>
<221> MOD_RES
<222> (30)..(30)
<223> Ser, Asn or Gly

<220>
<221> MOD_RES
<222> (31)..(31)
<223> Thr or Asn

<220>
<221> MOD_RES
<222> (32)..(32)
<223> Ala or Tyr

<220>
<221> MOD_RES
<222> (33)..(33)
<223> Val or Leu

<220>
<221> MOD_RES
<222> (91)..(91)
<223> Ser, Val or Asp

<220>
<221> MOD_RES
<222> (92)..(92)
<223> Tyr, Asp or Ser

<220>
<221> MOD_RES
<222> (93)..(93)
<223> Thr, Ser, Ala, Asp or Asn

<220>

<221> MOD_RES
<222> (94)..(94)
<223> Thr, His, Asn, Ser, Ala, Leu or Arg

<220>
<221> MOD_RES
<222> (96)..(96)
<223> Pro, Thr, Ala or Ser

<400> 31
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

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

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

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

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Xaa Xaa Xaa Xaa Pro Xaa
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 32
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Consensus polypeptide

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<223> Asn, Ser or Thr

<220>
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<222> (30)..(30)
<223> Ser, Asp, Tyr or Ala

<220>
<221> MOD_RES
<222> (31)..(31)
<223> Gly or Asp

<220>
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<222> (59)..(59)
<223> Asn or Asp

<220>
<221> MOD_RES
<222> (104)..(104)
<223> Ser or Thr

<400> 32
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Xaa Ile Xaa Xaa Tyr
20 25 30

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

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

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

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

Ala Arg Gly Thr Phe Leu Thr Xaa Trp Gly His Tyr Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Thr
115

<210> 33
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 33
Arg Ala Ser Gln Asp Val Gly Thr Tyr Leu Ala
1 5 10

<210> 34
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 34
Gln Gln Val Tyr Ser His Pro Pro Thr
1 5

<210> 35
<211> 9

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 35
Gln Gln Ser Tyr Thr Asn Pro Pro Thr
1 5

<210> 36
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 36
Gln Gln Ser Tyr Ala Thr Pro Thr Thr
1 5

<210> 37
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 37
Gln Gln Ser Tyr Ser Ser Pro Ala Thr
1 5

<210> 38
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 38
Gln Gln Val Tyr Thr Thr Pro Pro Thr
1 5

<210> 39
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 39
Gln Gln Val Tyr Ala Thr Pro Ser Thr
1 5

<210> 40
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 40
Gln Gln Ser Tyr Asn Ser Pro Ala Thr
1 5

<210> 41
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 41
Gln Gln Ser Tyr Ser Thr Pro Ala Thr
1 5

<210> 42
<211> 9
<212> PRT
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<220>
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Gln Gln Ser Tyr Thr Ala Pro Thr Thr
1 5

<210> 43
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 43
Gln Gln Asp Ser Thr Leu Pro Pro Thr
1 5

<210> 44
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<220>
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<400> 44
Gln Gln Ser Asp Ala Ala Pro Pro Thr
1 5

<210> 45
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 45
Gln Gln Ser Tyr Ser Thr Pro Pro Thr
1 5

<210> 46
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 46
Gln Gln Ser Tyr Thr Arg Pro Pro Thr
1 5

<210> 47
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 47
Gly Phe Ser Ile Ser Asp Tyr Tyr Ile His
1 5 10

<210> 48
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 48
Gly Phe Ser Ile Asp Gly Tyr Tyr Ile His
1 5 10

<210> 49
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 49

Gly Phe Thr Ile Tyr Asp Tyr Tyr Ile His
1 5 10

<210> 50
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 50
Gly Phe Ser Ile Ala Gly Tyr Tyr Ile His
1 5 10

<210> 51
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 51
Gly Phe Thr Ile Ser Asp Tyr Tyr Ile His
1 5 10

<210> 52
<211> 17
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 52
Trp Ile Asp Pro Tyr Gly Gly Asp Thr Asp Tyr Ala Asp Ser Val Lys
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Gly

<210> 53
<211> 13
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 53
Gly Thr Phe Leu Thr Thr Trp Gly His Tyr Phe Asp Tyr
1 5 10

<210> 54
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 54
Asp Val Ser Thr Ala Val
1 5

<210> 55
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 55
Ser Ile Asn Thr Tyr Leu
1 5

<210> 56
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 56
Asp Val Gly Thr Tyr Leu
1 5

<210> 57
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 57
Val Val Gly Asn Tyr Leu
1 5

<210> 58
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 58
Ser Ala Ser Phe Leu Tyr
1 5

<210> 59
<211> 6

<212> PRT
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<220>
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peptide

<400> 59
Ser Tyr Thr Thr Pro Pro
1 5

<210> 60
<211> 6
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<220>
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peptide

<400> 60
Val Tyr Ser His Pro Pro
1 5

<210> 61
<211> 6
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<220>
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peptide

<400> 61
Ser Tyr Thr Asn Pro Pro
1 5

<210> 62
<211> 6
<212> PRT
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<220>
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peptide

<400> 62
Ser Tyr Ala Thr Pro Thr
1 5

<210> 63
<211> 6
<212> PRT
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<220>
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peptide

<400> 63
Ser Asp Asp Thr Pro Pro
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<210> 64
<211> 6
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 64
Ser Tyr Ser Ser Pro Ala
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<210> 65
<211> 6
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<220>
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<400> 65
Val Tyr Thr Thr Pro Pro
1 5

<210> 66
<211> 6
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<220>
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<400> 66
Val Tyr Ala Thr Pro Ser
1 5

<210> 67
<211> 6
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 67
Ser Tyr Asn Ser Pro Ala
1 5

<210> 68
<211> 6
<212> PRT
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<220>
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<400> 68
Ser Tyr Ser Thr Pro Ala
1 5

<210> 69
<211> 6
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 69
Ser Tyr Thr Ala Pro Thr
1 5

<210> 70
<211> 6
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<220>
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<400> 70
Asp Ser Thr Leu Pro Pro
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<210> 71
<211> 6
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<220>
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<400> 71
Ser Asp Ala Ala Pro Pro
1 5

<210> 72
<211> 6
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 72
Ser Asp Asp His Pro Pro
1 5

<210> 73
<211> 6
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 73

Ser Tyr Ser Thr Pro Pro
1 5

<210> 74
<211> 6
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 74
Ser Tyr Thr Arg Pro Pro
1 5

<210> 75
<211> 8
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 75
Gly Phe Ser Ile Ser Gly Tyr Tyr
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<210> 76
<211> 8
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<220>
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Gly Phe Ser Ile Ser Asp Tyr Tyr
1 5

<210> 77
<211> 8
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<400> 77
Gly Phe Ser Ile Asp Gly Tyr Tyr
1 5

<210> 78
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 78
Gly Phe Thr Ile Tyr Asp Tyr Tyr
1 5

<210> 79
<211> 8
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 79
Gly Phe Ser Ile Ala Gly Tyr Tyr
1 5

<210> 80
<211> 8
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 80
Gly Phe Thr Ile Ser Asp Tyr Tyr
1 5

<210> 81
<211> 10
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 81
Trp Ile Asp Pro Tyr Gly Gly Asp Thr Asn
1 5 10

<210> 82
<211> 10
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 82
Trp Ile Asp Pro Tyr Gly Gly Asp Thr Asp
1 5 10

<210> 83
<211> 10
<212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 83
Gly Thr Phe Leu Thr Ser Trp Gly His Tyr
1 5 10

<210> 84
<211> 10
<212> PRT
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<220>
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peptide

<400> 84
Gly Thr Phe Leu Thr Thr Trp Gly His Tyr
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<210> 85
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<220>
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peptide

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<223> Ser, Asn or Gly

<220>
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<223> Thr or Asn

<220>
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<222> (5)..(5)
<223> Ala or Tyr

<220>
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<222> (6)..(6)
<223> Val or Leu

<400> 85
Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 86

<211> 6
<212> PRT
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<220>
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peptide

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<223> Ser, Val or Asp

<220>
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<222> (2)..(2)
<223> Tyr, Asp or Ser

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Thr, Ser, Ala, Asp or Asn

<220>
<221> MOD_RES
<222> (4)..(4)
<223> Thr, His, Asn, Ser, Ala, Leu or Arg

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Pro, Thr, Ala or Ser

<400> 86
Xaa Xaa Xaa Xaa Pro Xaa
1 5

<210> 87
<211> 8
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
peptide

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<222> (3)..(3)
<223> Asn, Ser or Thr

<220>
<221> MOD_RES
<222> (5)..(5)
<223> Ser, Asp, Tyr or Ala

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Gly or Asp

<400> 87
Gly Phe Xaa Ile Xaa Xaa Tyr Tyr
1 5

<210> 88
<211> 10
<212> PRT
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<220>
<221> MOD_RES
<222> (10)..(10)
<223> Asn or Asp

<400> 88
Trp Ile Asp Pro Tyr Gly Gly Asp Thr Xaa
1 5 10

<210> 89
<211> 10
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

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<221> MOD_RES
<222> (6)..(6)
<223> Ser or Thr

<400> 89
Gly Thr Phe Leu Thr Xaa Trp Gly His Tyr
1 5 10

<210> 90
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic 6xHis tag

<400> 90
His His His His His His
1 5