SEQUENCE LISTING

<110> RAO, Raman

<120> METHODS FOR PRODUCING VIRUS FOR VACCINE PRODUCTION

<130> 606772001140

<140> Not yet assigned
<141> Concurrently Herewith

<150> 62/116,361
<151> 2015-02-13

<160> 14

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 297
<212> PRT
<213> Enterovirus A

<400> 1
Gly Asp Arg Val Ala Asp Val Ile Glu Ser Ser Ile Gly Asp Ser Val
1 5 10 15
Ser Arg Ala Leu Thr Gln Ala Leu Pro Ala Pro Thr Gly Gln Asn Thr
20 25 30
Gln Val Ser Ser His Arg Leu Asp Thr Gly Glu Val Pro Ala Leu Gln
35 40 45
Ala Ala Glu Ile Gly Ala Ser Ser Asn Thr Ser Asp Glu Ser Met Ile
50 55 60
Glu Thr Arg Cys Val Leu Asn Ser His Ser Thr Ala Glu Thr Thr Leu
65 70 75 80
Asp Ser Phe Phe Ser Arg Ala Gly Leu Val Gly Glu Ile Asp Leu Pro
85 90 95
Leu Glu Gly Thr Thr Asn Pro Asn Gly Tyr Ala Asn Trp Asp Ile Asp
100 105 110
Ile Thr Gly Tyr Ala Gln Met Arg Arg Lys Val Glu Leu Phe Thr Tyr
115 120 125
Met Arg Phe Asp Ala Glu Phe Thr Phe Val Ala Cys Thr Pro Thr Gly
130 135 140
Glu Val Val Pro Gln Leu Leu Gln Tyr Met Phe Val Pro Pro Gly Ala
145 150 155 160
Pro Lys Pro Glu Ser Arg Glu Ser Leu Ala Trp Gln Thr Ala Thr Asn
165 170 175
Pro Ser Val Phe Val Lys Leu Thr Asp Pro Pro Ala Gln Val Ser Val
180 185 190
Pro Phe Met Ser Pro Ala Ser Ala Tyr Gln Trp Phe Tyr Asp Gly Tyr
195 200 205
Pro Thr Phe Gly Glu His Lys Gln Glu Lys Asp Leu Glu Tyr Gly Ala
210 215 220
Cys Pro Asn Asn Met Met Gly Thr Phe Ser Val Arg Thr Val Gly Ser
225 230 235 240
Ser Lys Ser Lys Tyr Pro Leu Val Val Arg Ile Tyr Met Arg Met Lys
245 250 255
His Val Arg Ala Trp Ile Pro Arg Pro Met Arg Asn Gln Asn Tyr Leu
260 265 270
Phe Lys Ala Asn Pro Asn Tyr Ala Gly Asn Ser Ile Lys Pro Thr Gly
275 280 285
Thr Ser Arg Asn Ala Ile Thr Thr Leu
290 295

<210> 2
<211> 305

<212> PRT
<213> Coxsackievirus A6

<400> 2
Asn Asp Pro Ile Ser Asn Ala Ile Glu Asn Ala Val Ser Thr Leu Ala
 1   5   10   15
Asp Thr Thr Ile Ser Arg Val Thr Ala Ala Asn Thr Ala Ala Ser Ser
            20   25   30
His Ser Leu Gly Thr Gly Arg Val Pro Ala Leu Gln Ala Ala Glu Thr
        35   40   45
Gly Ala Ser Ser Asn Ala Ser Asp Glu Asn Leu Ile Glu Thr Arg Cys
    50   55   60
Val Met Asn Arg Asn Gly Val Asn Glu Ala Ser Val Glu His Phe Tyr
65   70   75   80
Ser Arg Ala Gly Leu Val Gly Val Val Glu Val Lys Asp Ser Gly Thr
                85   90   95
Ser Gln Asp Gly Tyr Thr Val Trp Pro Ile Asp Val Met Gly Phe Val
            100   105   110
Gln Gln Arg Arg Lys Leu Glu Leu Ser Thr Tyr Met Arg Phe Asp Ala
        115   120   125
Glu Phe Thr Phe Val Ser Asn Leu Asn Asp Ser Thr Thr Pro Gly Met
    130   135   140
Leu Leu Gln Tyr Met Tyr Val Pro Pro Gly Ala Pro Lys Pro Asp Gly
145   150   155   160
Arg Lys Ser Tyr Gln Trp Gln Thr Ala Thr Asn Pro Ser Ile Phe Ala
                165   170   175
Lys Leu Ser Asp Pro Pro Pro Gln Val Ser Val Pro Phe Met Ser Pro
            180   185   190
Ala Ser Ala Tyr Gln Trp Phe Tyr Asp Gly Tyr Pro Thr Phe Gly Glu
        195   200   205
His Lys Gln Ala Thr Asn Leu Gln Tyr Gly Gln Cys Pro Asn Asn Met
    210   215   220
Met Gly His Phe Ala Ile Arg Thr Val Ser Glu Ser Thr Thr Gly Lys
225   230   235   240
Asn Val His Val Arg Val Tyr Met Arg Ile Lys His Val Arg Ala Trp
                245   250   255
Val Pro Arg Pro Phe Arg Ser Gln Ala Tyr Met Val Lys Asn Tyr Pro
            260   265   270
Thr Tyr Ser Gln Thr Ile Ser Asn Thr Ala Ala Asp Arg Ala Ser Ile
        275   280   285
Thr Thr Thr Asp Tyr Glu Gly Gly Val Pro Ala Asn Pro Gln Arg Thr
    290   295   300
Phe
305

<210> 3
<211> 256
<212> PRT
<213> Coxsackievirus A6

<400> 3
Ser Pro Ser Val Glu Ala Cys Gly Tyr Ser Asp Arg Val Ala Gln Leu
 1   5   10   15
Thr Val Gly Asn Ser Thr Ile Thr Thr Gln Glu Ala Ala Asn Ile Val
            20   25   30
Leu Ser Tyr Gly Glu Trp Pro Gly Tyr Cys Pro Ser Thr Asp Ala Thr
        35   40   45
Ala Val Asp Lys Pro Thr Arg Pro Asp Val Ser Val Asn Arg Phe Tyr
    50   55   60
Thr Leu Ser Thr Lys Ser Trp Lys Thr Glu Ser Thr Gly Trp Tyr Trp
65   70   75   80
Lys Phe Pro Asp Val Leu Asn Asp Thr Gly Val Phe Gly Gln Asn Ala
                85   90   95
Gln Phe His Tyr Leu Tyr Arg Ser Gly Phe Cys Met His Val Gln Cys
            100   105   110
Asn Ala Ser Lys Phe His Gln Gly Ala Leu Leu Val Val Val Ile Pro
        115   120   125

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Glu Phe Val Val Ala Ala Ser Ser Pro Ala Met Lys Pro Asn Gly Gln
    130                 135                 140
Gly Leu Tyr Pro Asp Phe Ala His Thr Asn Pro Gly Lys Glu Gly Gln
145                 150                 155                 160
Val Phe Arg Asp Pro Tyr Val Leu Asp Ala Gly Ile Pro Leu Ser Gln
                165                 170                 175
Ala Leu Val Phe Pro His Gln Trp Ile Asn Leu Arg Thr Asn Asn Cys
            180                 185                 190
Ala Thr Ile Ile Met Pro Tyr Val Asn Ala Leu Pro Phe Asp Ser Ala
        195                 200                 205
Leu Asn His Ser Asn Phe Gly Leu Ala Val Ile Pro Ile Ser Pro Leu
    210                 215                 220
Lys Tyr Cys Asn Gly Ala Thr Thr Glu Val Pro Ile Thr Leu Thr Ile
225                 230                 235                 240
Ala Pro Leu Asn Ser Glu Phe Ser Gly Leu Arg Gln Ala Ile Lys Gln
                245                 250                 255


<210> 4
<211> 240
<212> PRT
<213> Coxsackievirus A6

<400> 4
Gly Leu Pro Thr Glu Leu Lys Pro Gly Thr Asn Gln Phe Leu Thr Thr
 1               5                  10                  15
Asp Asp Gly Thr Ser Pro Pro Ile Leu Pro Gly Phe Glu Pro Thr Pro
            20                  25                  30
Leu Ile His Ile Pro Gly Glu Phe Thr Ser Leu Leu Asp Leu Cys Arg
        35                  40                  45
Ile Glu Thr Ile Leu Glu Val Asn Asn Thr Thr Gly Thr Thr Gly Val
    50                  55                  60
Asn Arg Leu Leu Ile Pro Val Arg Ala Gln Asn Asn Val Asp Gln Leu
65                  70                  75                  80
Cys Ala Ser Phe Gln Val Asp Pro Gly Arg Asn Gly Pro Trp Gln Ser
                85                  90                  95
Thr Met Val Gly Gln Ile Cys Arg Tyr Tyr Thr Gln Trp Ser Gly Ser
            100                 105                 110
Leu Lys Val Thr Phe Met Phe Thr Gly Ser Phe Met Ala Thr Gly Lys
        115                 120                 125
Met Leu Ile Ala Tyr Thr Pro Pro Gly Ser Ala Gln Pro Thr Thr Arg
    130                 135                 140
Glu Ala Ala Met Leu Gly Thr His Ile Val Trp Asp Phe Gly Leu Gln
145                 150                 155                 160
Ser Ser Val Thr Leu Val Ile Pro Trp Ile Ser Asn Thr His Phe Arg
                165                 170                 175
Ala Val Lys Thr Gly Gly Val Tyr Asp Tyr Tyr Ala Thr Gly Ile Val
            180                 185                 190
Thr Ile Trp Tyr Gln Thr Asn Phe Val Val Pro Pro Asp Thr Pro Ser
        195                 200                 205
Glu Ala Asn Ile Ile Ala Leu Gly Ala Ala Gln Glu Asn Phe Thr Leu
    210                 215                 220
Lys Leu Cys Lys Asp Thr Asp Glu Ile Arg Gln Thr Ala Glu Tyr Gln
225                 230                 235                 240


<210> 5
<211> 150
<212> PRT
<213> Coxsackievirus A16

<400> 5
Gly Lys Phe Gly Gln Gln Ser Gly Ala Ile Tyr Val Gly Asn Tyr Arg
 1               5                  10                  15
Val Val Asn Arg His Leu Ala Thr His Asn Asp Trp Ala Asn Leu Val
            20                  25                  30
Trp Glu Asp Ser Ser Arg Asp Leu Leu Val Ser Ser Thr Thr Ala Gln
        35                  40                  45
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Gly Cys Asp Thr Ile Ala Arg Cys Asp Cys Gln Thr Gly Ile Tyr Tyr
    50                  55                  60
Cys Ser Ser Lys Arg Lys His Tyr Pro Val Ser Phe Thr Lys Pro Ser
65                  70                  75                  80
Leu Ile Phe Val Glu Ala Ser Glu Tyr Tyr Pro Ala Arg Tyr Gln Ser
                85                  90                  95
His Leu Met Leu Ala Val Gly His Ser Glu Pro Gly Asp Cys Gly Gly
            100                 105                 110
Ile Leu Arg Cys Gln His Gly Val Val Gly Ile Val Ser Thr Gly Gly
        115                 120                 125
Asn Gly Leu Val Gly Phe Ala Asp Val Arg Asp Leu Leu Trp Leu Asp
    130                 135                 140
Glu Glu Ala Met Glu Gln
145                 150


<210> 6
<211> 254
<212> PRT
<213> Coxsackievirus A16

<400> 6
Ser Pro Ser Ala Glu Ala Cys Gly Tyr Ser Asp Arg Val Ala Gln Leu
 1               5                  10                  15
Thr Ile Gly Asn Ser Thr Ile Thr Thr Gln Glu Ala Ala Asn Ile Val
            20                  25                  30
Ile Ala Tyr Gly Glu Trp Pro Glu Tyr Cys Pro Asp Thr Asp Ala Thr
        35                  40                  45
Ala Val Asp Lys Pro Thr Arg Pro Asp Val Ser Val Asn Arg Phe Phe
    50                  55                  60
Thr Leu Asp Thr Lys Ser Trp Ala Lys Asp Ser Lys Gly Trp Tyr Trp
65                  70                  75                  80
Lys Phe Pro Asp Val Leu Thr Glu Val Gly Val Phe Gly Gln Asn Ala
                85                  90                  95
Gln Phe His Tyr Leu Tyr Arg Ser Gly Phe Cys Val His Val Gln Cys
            100                 105                 110
Asn Ala Ser Lys Phe His Gln Gly Ala Leu Leu Val Ala Val Leu Pro
        115                 120                 125
Glu Tyr Val Leu Gly Thr Ile Ala Gly Gly Thr Gly Asn Glu Asn Ser
    130                 135                 140
His Pro Pro Tyr Ala Thr Thr Gln Pro Gly Gln Val Gly Ala Val Leu
145                 150                 155                 160
Met His Pro Tyr Val Leu Asp Ala Gly Ile Pro Leu Ser Gln Leu Thr
                165                 170                 175
Val Cys Pro His Gln Trp Ile Asn Leu Arg Thr Asn Asn Cys Ala Thr
            180                 185                 190
Ile Ile Val Pro Tyr Met Asn Thr Val Pro Phe Asp Ser Ala Leu Asn
        195                 200                 205
His Cys Asn Phe Gly Leu Leu Val Ile Pro Val Val Pro Leu Asp Phe
    210                 215                 220
Asn Ala Gly Ala Thr Ser Glu Ile Pro Ile Thr Val Thr Ile Ala Pro
225                 230                 235                 240
Met Cys Ala Glu Phe Ala Gly Leu Arg Gln Ala Val Lys Gln
                245                 250


<210> 7
<211> 297
<212> PRT
<213> Coxsackievirus A16

<400> 7
Gly Asp Pro Ile Ala Asp Met Ile Asp Gln Thr Val Asn Asn Gln Val
 1               5                  10                  15
Asn Arg Ser Leu Thr Ala Leu Gln Val Leu Pro Thr Ala Ala Asn Thr
            20                  25                  30
Glu Ala Ser Ser His Arg Leu Gly Thr Gly Val Val Pro Ala Leu Gln
        35                  40                  45
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Ala Ala Glu Thr Gly Ala Ser Ser Asn Ala Ser Asp Lys Asn Leu Ile
    50                  55                  60
Glu Thr Arg Cys Val Leu Asn His His Ser Thr Gln Glu Thr Ala Ile
65                  70                  75                  80
Gly Asn Phe Phe Ser Arg Ala Gly Leu Val Ser Ile Ile Thr Met Pro
                85                  90                  95
Thr Thr Asp Thr Gln Asn Thr Asp Gly Tyr Val Asn Trp Asp Ile Asp
            100                 105                 110
Leu Met Gly Tyr Ala Gln Leu Arg Arg Lys Cys Glu Leu Phe Thr Tyr
        115                 120                 125
Met Arg Phe Asp Ala Glu Phe Thr Phe Val Val Ala Lys Pro Asn Gly
    130                 135                 140
Val Leu Val Pro Gln Leu Leu Gln Tyr Met Tyr Val Pro Pro Gly Ala
145                 150                 155                 160
Pro Lys Pro Thr Ser Arg Asp Ser Phe Ala Trp Gln Thr Ala Thr Asn
                165                 170                 175
Pro Ser Val Phe Val Lys Met Thr Asp Pro Pro Ala Gln Val Ser Val
            180                 185                 190
Pro Phe Met Ser Pro Ala Ser Ala Tyr Gln Trp Phe Tyr Asp Gly Tyr
        195                 200                 205
Pro Thr Phe Gly Glu His Leu Gln Ala Asn Asp Leu Asp Tyr Gly Gln
    210                 215                 220
Cys Pro Asn Asn Met Met Gly Thr Phe Ser Ile Arg Thr Val Gly Thr
225                 230                 235                 240
Glu Lys Ser Pro His Ser Ile Thr Leu Arg Val Tyr Met Arg Ile Lys
                245                 250                 255
His Val Arg Ala Trp Ile Pro Arg Pro Leu Arg Asn Gln Pro Tyr Leu
            260                 265                 270
Phe Lys Thr Asn Pro Asn Tyr Lys Gly Asn Asp Ile Lys Cys Thr Ser
        275                 280                 285
Thr Ser Arg Asp Lys Ile Thr Thr Leu
    290                 295


<210> 8
<211> 739
<212> PRT
<213> Coxsackievirus A6

<400> 8
Thr Thr Ala Ala Ala Ala Cys Ala Gly Cys Thr Ala Gly Thr Gly Gly
 1                  5                  10                  15
Gly Thr Thr Gly Cys Ala Cys Cys Cys Ala Cys Thr Cys Ala Cys Ala
            20                  25                  30
Gly Gly Gly Cys Cys Cys Ala Cys Thr Gly Gly Gly Cys Gly Cys Thr
        35                  40                  45
Ala Gly Cys Ala Cys Ala Cys Thr Gly Ala Thr Thr Thr Cys Cys Cys
    50                  55                  60
Gly Gly Ala Ala Thr Cys Cys Thr Thr Gly Thr Gly Cys Gly Cys Cys
65                  70                  75                  80
Thr Gly Thr Thr Thr Thr Ala Thr Ala Thr Cys Cys Cys Cys Thr Cys
                85                  90                  95
Cys Cys Cys Cys Ala Thr Gly Cys Gly Cys Ala Ala Cys Thr Thr Ala
            100                 105                 110
Gly Ala Ala Gly Cys Ala Ala Thr Cys Thr Ala Cys Ala Cys Cys Thr
        115                 120                 125
Thr Cys Gly Ala Thr Cys Ala Ala Thr Ala Gly Cys Ala Gly Gly Cys
    130                 135                 140
Gly Thr Gly Gly Cys Gly Cys Gly Cys Cys Ala Gly Cys Cys Ala Thr
145                 150                 155                 160
Gly Thr Cys Thr Ala Gly Ala Thr Cys Ala Ala Gly Cys Ala Cys Thr
                165                 170                 175
Thr Cys Thr Gly Thr Thr Thr Cys Cys Cys Cys Gly Gly Ala Cys Thr
            180                 185                 190
Gly Ala Gly Thr Ala Thr Cys Ala Ala Thr Ala Ala Ala Cys Thr Gly
        195                 200                 205
Cys Thr Cys Ala Cys Gly Cys Gly Gly Thr Thr Gly Ala Ala Gly Gly
    210                 215                 220
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Ala Gly Ala Ala Ala Ala Thr Gly Thr Thr Cys Gly Thr Thr Ala Cys
225                 230                 235                 240
Cys Cys Gly Gly Cys Thr Ala Ala Cys Thr Ala Cys Thr Thr Cys Gly
                245                 250                 255
Ala Gly Ala Ala Ala Cys Cys Thr Ala Gly Thr Ala Gly Cys Ala Cys
            260                 265                 270
Cys Ala Thr Gly Ala Ala Ala Ala Thr Thr Gly Cys Ala Gly Ala Gly
        275                 280                 285
Cys Gly Thr Thr Cys Gly Thr Cys Ala Gly Cys Gly Thr Cys Cys Cys
    290                 295                 300
Cys Gly Cys Gly Ala Gly Ala Thr Cys Ala Gly Gly Cys Thr Gly Ala
305                 310                 315                 320
Thr Gly Ala Gly Thr Cys Ala Cys Thr Gly Cys Ala Thr Thr Cys Cys
                325                 330                 335
Thr Cys Ala Cys Gly Gly Gly Cys Gly Ala Cys Cys Gly Thr Gly Gly
            340                 345                 350
Cys Ala Gly Thr Gly Gly Cys Thr Gly Cys Gly Thr Thr Gly Gly Cys
        355                 360                 365
Gly Gly Cys Cys Thr Gly Cys Cys Cys Ala Thr Gly Gly Gly Gly Thr
    370                 375                 380
Ala Ala Cys Cys Cys Ala Thr Gly Gly Gly Ala Cys Gly Cys Thr Cys
385                 390                 395                 400
Thr Ala Ala Thr Ala Thr Gly Gly Ala Cys Ala Thr Gly Gly Thr Gly
                405                 410                 415
Thr Gly Ala Ala Gly Ala Gly Thr Cys Thr Ala Thr Thr Gly Ala Gly
            420                 425                 430
Cys Thr Ala Gly Thr Thr Ala Gly Thr Ala Gly Thr Cys Cys Thr Cys
        435                 440                 445
Cys Gly Gly Cys Cys Cys Cys Thr Gly Ala Ala Thr Gly Cys Gly Gly
    450                 455                 460
Cys Thr Ala Ala Thr Cys Cys Thr Ala Ala Cys Thr Gly Cys Gly Gly
465                 470                 475                 480
Ala Gly Cys Ala Cys Ala Thr Ala Cys Cys Cys Cys Cys Ala Ala Ala
                485                 490                 495
Cys Cys Ala Gly Gly Gly Gly Gly Cys Gly Gly Thr Gly Thr Gly Thr
            500                 505                 510
Cys Gly Thr Ala Ala Cys Gly Gly Gly Cys Ala Ala Cys Thr Cys Thr
        515                 520                 525
Gly Cys Ala Gly Cys Gly Gly Ala Ala Cys Cys Gly Ala Cys Thr Ala
    530                 535                 540
Cys Thr Thr Thr Gly Gly Gly Thr Gly Thr Cys Cys Gly Thr Gly Thr
545                 550                 555                 560
Thr Thr Cys Cys Thr Thr Thr Thr Ala Thr Thr Cys Thr Thr Ala Thr
                565                 570                 575
Ala Thr Thr Gly Gly Cys Thr Gly Cys Thr Thr Ala Thr Gly Gly Thr
            580                 585                 590
Gly Ala Cys Ala Ala Thr Thr Gly Ala Ala Ala Gly Ala Thr Thr Gly
        595                 600                 605
Thr Thr Ala Cys Cys Ala Thr Ala Thr Ala Gly Cys Thr Ala Thr Thr
    610                 615                 620
Gly Gly Ala Thr Thr Gly Gly Cys Cys Ala Thr Cys Cys Gly Gly Thr
625                 630                 635                 640
Gly Ala Ala Thr Ala Ala Cys Ala Gly Ala Gly Cys Cys Thr Thr Gly
                645                 650                 655
Ala Thr Ala Thr Ala Cys Cys Thr Thr Thr Thr Thr Gly Thr Ala Gly
            660                 665                 670
Gly Gly Thr Thr Thr Ala Thr Ala Cys Cys Ala Cys Thr Thr Ala Cys
        675                 680                 685
Thr Cys Thr Thr Cys Gly Cys Gly Thr Thr Gly Thr Thr Gly Ala Gly
    690                 695                 700
Ala Cys Thr Cys Thr Ala Ala Ala Gly Thr Ala Cys Ala Thr Thr Cys
705                 710                 715                 720
Thr Ala Ala Thr Cys Thr Thr Gly Ala Ala Cys Ala Cys Thr Ala Gly
                725                 730                 735
Ala Ala Ala
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<210> 9
<211> 735
<212> PRT
<213> Coxsackievirus A16

<400> 9

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Ala Gly Cys Cys Thr Gly Thr Gly Gly Gly Thr Thr Gly Thr Thr Cys
 1               5                  10                  15
Cys Cys Ala Cys Cys Cys Ala Cys Ala Gly Gly Gly Cys Cys Cys Ala
            20                  25                  30
Gly Thr Gly Gly Gly Cys Gly Cys Thr Ala Gly Cys Ala Cys Ala Cys
        35                  40                  45
Thr Gly Ala Thr Thr Cys Thr Gly Cys Gly Gly Gly Ala Thr Cys Thr
    50                  55                  60
Thr Thr Gly Thr Gly Cys Gly Cys Cys Thr Gly Thr Thr Thr Thr Ala
65                  70                  75                  80
Thr Ala Ala Cys Cys Cys Cys Thr Thr Cys Cys Cys Thr Ala Ala Gly
                85                  90                  95
Cys Ala Gly Cys Ala Ala Cys Thr Thr Ala Gly Ala Ala Gly Thr Thr
            100                 105                 110
Thr Cys Ala Cys Ala Cys Ala Ala Thr Cys Ala Cys Gly Ala Cys Cys
        115                 120                 125
Ala Gly Thr Ala Gly Thr Gly Gly Gly Cys Gly Thr Gly Gly Cys Gly
    130                 135                 140
Cys Gly Cys Cys Ala Gly Thr Cys Ala Cys Gly Thr Cys Thr Thr Gly
145                 150                 155                 160
Gly Thr Cys Ala Ala Gly Cys Ala Cys Thr Thr Cys Thr Gly Thr Thr
                165                 170                 175
Cys Cys Cys Cys Cys Gly Gly Ala Cys Thr Gly Ala Gly Thr Ala Thr
            180                 185                 190
Cys Ala Ala Thr Ala Gly Ala Cys Thr Gly Cys Thr Cys Ala Cys Gly
        195                 200                 205
Cys Gly Gly Thr Thr Gly Ala Ala Gly Gly Ala Gly Ala Ala Ala Ala
    210                 215                 220
Cys Gly Thr Thr Cys Gly Thr Thr Ala Thr Cys Cys Gly Gly Cys Thr
225                 230                 235                 240
Ala Ala Cys Thr Ala Cys Thr Thr Cys Gly Ala Gly Ala Ala Ala Cys
                245                 250                 255
Cys Thr Ala Gly Ala Gly Cys Ala Cys Cys Gly Thr Gly Ala Ala Ala
            260                 265                 270
Gly Thr Thr Gly Cys Gly Gly Ala Gly Gly Thr Cys Gly Cys Thr Cys
        275                 280                 285
Ala Gly Cys Ala Cys Thr Thr Cys Cys Cys Cys Cys Gly Thr Gly Thr
    290                 295                 300
Ala Gly Ala Thr Cys Ala Gly Gly Thr Cys Gly Ala Thr Gly Ala Gly
305                 310                 315                 320
Thr Cys Ala Cys Thr Gly Thr Ala Ala Ala Cys Cys Cys Cys Ala Cys
                325                 330                 335
Gly Gly Gly Cys Gly Ala Cys Cys Gly Thr Gly Ala Cys Ala Gly Thr
            340                 345                 350
Gly Gly Cys Thr Gly Cys Gly Thr Thr Gly Gly Cys Gly Gly Cys Cys
        355                 360                 365
Thr Gly Cys Cys Cys Ala Thr Gly Gly Gly Gly Thr Ala Ala Cys Cys
    370                 375                 380
Cys Ala Thr Gly Gly Gly Ala Cys Gly Cys Thr Cys Thr Ala Ala Thr
385                 390                 395                 400
Ala Cys Ala Gly Ala Cys Ala Thr Gly Gly Thr Gly Thr Gly Ala Ala
                405                 410                 415
Gly Ala Gly Thr Cys Thr Ala Thr Thr Gly Ala Gly Cys Thr Ala Gly
            420                 425                 430
Thr Thr Ala Gly Thr Ala Gly Thr Cys Cys Thr Cys Cys Gly Gly Cys
        435                 440                 445
Cys Cys Cys Thr Gly Ala Ala Thr Gly Cys Gly Gly Cys Thr Ala Ala
    450                 455                 460
Thr Cys Cys Thr Ala Ala Cys Thr Gly Cys Gly Gly Ala Gly Cys Ala
465                 470                 475                 480
Cys Gly Cys Ala Cys Cys Cys Thr Cys Ala Ala Cys Cys Cys Ala Gly
                485                 490                 495
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Gly Gly Gly Gly Cys Gly Gly Cys Gly Thr Gly Thr Cys Gly Thr Ala
            500                 505                 510
Ala Thr Gly Gly Gly Thr Ala Ala Cys Thr Cys Thr Gly Cys Ala Gly
        515                 520                 525
Cys Gly Gly Ala Ala Cys Cys Gly Ala Cys Thr Ala Cys Thr Thr Thr
    530                 535                 540
Gly Gly Gly Thr Gly Thr Cys Cys Gly Thr Gly Thr Thr Thr Cys Cys
545                 550                 555                 560
Thr Thr Thr Thr Ala Thr Thr Cys Cys Thr Thr Ala Thr Thr Gly Gly
                565                 570                 575
Cys Thr Gly Cys Thr Thr Ala Thr Gly Gly Thr Gly Ala Cys Ala Ala
            580                 585                 590
Thr Thr Gly Ala Ala Ala Ala Gly Thr Thr Gly Thr Thr Ala Cys Cys
        595                 600                 605
Ala Thr Ala Thr Ala Gly Cys Thr Ala Thr Thr Gly Gly Ala Thr Thr
    610                 615                 620
Gly Gly Cys Cys Ala Thr Cys Cys Gly Gly Thr Gly Thr Cys Thr Ala
625                 630                 635                 640
Ala Cys Ala Gly Ala Gly Cys Thr Ala Thr Thr Gly Thr Thr Thr Ala
                645                 650                 655
Cys Cys Thr Ala Thr Thr Thr Ala Thr Thr Gly Gly Ala Thr Ala Cys
            660                 665                 670
Gly Thr Cys Cys Cys Thr Cys Thr Thr Ala Ala Thr Cys Thr Cys Ala
        675                 680                 685
Ala Gly Gly Cys Cys Ala Thr Thr Cys Ala Ala Ala Cys Thr Cys Thr
    690                 695                 700
Thr Gly Ala Thr Thr Ala Thr Ala Thr Ala Thr Thr Gly Cys Thr Cys
705                 710                 715                 720
Cys Thr Thr Ala Ala Cys Thr Gly Thr Ala Ala Gly Ala Ala Ala
                725                 730                 735


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

<220>
<223> Sythetic Construct

<400> 10
tccatgacgt tcctgacgtt                                                20

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

<220>
<223> Sythetic Construct

<400> 11
tctcccagcg tgcgccat                                                  18

<210> 12
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Sythetic Construct

<400> 12
accgatgacg tcgccggtga cggcaccacg                                     30

<210> 13
<211> 24
<212> DNA
```

<213> Artificial Sequence

<220>
<223> Sythetic Construct

<400> 13
tcgtcgtttt gtcgttttgt cgtt 24

<210> 14
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Sythetic Construct

<400> 14
tccatgacgt tcctgatgct 20