SEQUENCE LISTING

<110> Westfaelische Wilhemlms-Universitaet Muenster

<120> Rapid and deterministic generation of microglia from human pluripotent stem cells

<130> UKM16706PCT

<150> EP19176722.7
<151> 2019-05-27

<160> 87

<170> PatentIn version 3.5

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Ser Gly Tyr His Ala Asn Tyr Cys Glu Gly Glu Cys Pro Ser His Ile

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        35                  40                  45

Ala Gly Thr Ser Gly Ser Ser Leu Ser Phe His Ser Thr Val Ile Asn
    50                  55                  60

His Tyr Arg Met Arg Gly His Ser Pro Phe Ala Asn Leu Lys Ser Cys
65                  70                  75                  80

Cys Val Pro Thr Lys Leu Arg Pro Met Ser Met Leu Tyr Tyr Asp Asp
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Gly Gln Asn Ile Ile Lys Lys Asp Ile Gln Asn Met Ile Val Glu Glu
            100                 105                 110

Cys Gly Cys Ser
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Phe Tyr Cys His Gly Asp Cys Pro Phe Pro Leu Ala Asp His Leu Asn
        35                  40                  45

Ser Thr Asn His Ala Ile Val Gln Thr Leu Val Asn Ser Val Asn Ser
    50                  55                  60

Ser Ile Pro Lys Ala Cys Cys Val Pro Thr Glu Leu Ser Ala Ile Ser
65                  70                  75                  80

Met Leu Tyr Leu Asp Glu Tyr Asp Lys Val Val Leu Lys Asn Tyr Gln
                85                  90                  95
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Phe Lys Asp Pro Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu
            20                  25                  30


Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp
        35                  40                  45


Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser
    50                  55                  60


Ile Lys Gly Val Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly
65                  70                  75                  80


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


Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Thr
            100                 105                 110


Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Ser
        115                 120                 125


Lys Thr Gly Pro Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala
    130                 135                 140


Lys Ser
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<213> Homo sapiens

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Val Asp Ile Phe Gln Glu Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys
35 40 45

Pro Ser Cys Val Pro Leu Met Arg Cys Gly Gly Cys Cys Asn Asp Glu
50 55 60

Gly Leu Glu Cys Val Pro Thr Glu Glu Ser Asn Ile Thr Met Gln Ile
65 70 75 80

Met Arg Ile Lys Pro His Gln Gly Gln His Ile Gly Glu Met Ser Phe
85 90 95

Leu Gln His Asn Lys Cys Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg
100 105 110

Gln Glu Asn Cys Asp Lys Pro Arg Arg
115 120

<210> 11
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<213> Homo sapiens

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Met Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val
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Thr Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys
20 25 30

Tyr Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu
35 40 45

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Met Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe
    50                  55                  60

Ser Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu
65                  70                  75                  80

Val Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser
                85                  90                  95

Lys Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr
            100                 105                 110

Pro Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys
        115                 120                 125

Asp Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr
    130                 135                 140

Leu Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met
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Leu Pro Pro Val Ala
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Ser Asn Met Ile Asp Glu Ile Ile Thr His Leu Lys Gln Pro Pro Leu
            20                  25                  30

Pro Leu Leu Asp Phe Asn Asn Leu Asn Gly Glu Asp Gln Asp Ile Leu
        35                  40                  45

Met Glu Asn Asn Leu Arg Arg Pro Asn Leu Glu Ala Phe Asn Arg Ala
    50                  55                  60
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Val Lys Ser Leu Gln Asn Ala Ser Ala Ile Glu Ser Ile Leu Lys Asn
65 70 75 80

Leu Leu Pro Cys Leu Pro Leu Ala Thr Ala Ala Pro Thr Arg His Pro
85 90 95

Ile His Ile Lys Asp Gly Asp Trp Asn Glu Phe Arg Arg Lys Leu Thr
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Phe Tyr Leu Lys Thr Leu Glu Asn Ala Gln Ala Gln Gln Thr Thr Leu
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Ser Leu Ala Ile Phe
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35 40 45

Met Cys Glu Ser Ser Lys Glu Ala Leu Ala Glu Asn Asn Leu Asn Leu
50 55 60

Pro Lys Met Ala Glu Lys Asp Gly Cys Phe Gln Ser Gly Phe Asn Glu
65 70 75 80

Glu Thr Cys Leu Val Lys Ile Ile Thr Gly Leu Leu Glu Phe Glu Val
85 90 95

Tyr Leu Glu Tyr Leu Gln Asn Arg Phe Glu Ser Ser Glu Glu Gln Ala

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            100                 105                 110

Arg Ala Val Gln Met Ser Thr Lys Val Leu Ile Gln Phe Leu Gln Lys
        115                 120                 125

Lys Ala Lys Asn Leu Asp Ala Ile Thr Thr Pro Asp Pro Thr Thr Asn
    130                 135                 140

Ala Ser Leu Leu Thr Lys Leu Gln Ala Gln Asn Gln Trp Leu Gln Asp
145                 150                 155                 160

Met Thr Thr His Leu Ile Leu Arg Ser Phe Lys Glu Phe Leu Gln Ser
                165                 170                 175

Ser Leu Arg Ala Leu Arg Gln Met
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<210>  14
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<400>  14

Met Glu Glu Val Ser Glu Tyr Cys Ser His Met Ile Gly Ser Gly His
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            20                  25                  30

Gln Ile Thr Phe Glu Phe Val Asp Gln Glu Gln Leu Lys Asp Pro Val
        35                  40                  45

Cys Tyr Leu Lys Lys Ala Phe Leu Leu Val Gln Asp Ile Met Glu Asp
    50                  55                  60

Thr Met Arg Phe Arg Asp Asn Thr Pro Asn Ala Ile Ala Ile Val Gln
65                  70                  75                  80

Leu Gln Glu Leu Ser Leu Arg Leu Lys Ser Cys Phe Thr Lys Asp Tyr
                85                  90                  95
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Glu Glu His Asp Lys Ala Cys Val Arg Thr Phe Tyr Glu Thr Pro Leu
            100                 105                 110

Gln Leu Leu Glu Lys Val Lys Asn Val Phe Asn Glu Thr Lys Asn Leu
        115                 120                 125

Leu Asp Lys Asp Trp Asn Ile Phe Ser Lys Asn Cys Asn Asn Ser Phe
    130                 135                 140

Ala Glu Cys Ser Ser Gln Gly His Glu Arg Gln Ser Glu Gly Ser
145                 150                 155
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<213> Homo sapiens

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Val Thr Gly Phe Leu Arg Asp Lys Leu Gln Tyr Arg Ser Arg Leu Gln
            20                  25                  30

Tyr Met Lys His Tyr Phe Pro Ile Asn Tyr Lys Ile Ser Val Pro Tyr
        35                  40                  45

Glu Gly Val Phe Arg Ile Ala Asn Val Thr Arg Leu Gln Arg Ala Gln
    50                  55                  60

Val Ser Glu Arg Glu Leu Arg Tyr Leu Trp Val Leu Val Ser Leu Ser
65                  70                  75                  80

Ala Thr Glu Ser Val Gln Asp Val Leu Leu Glu Gly His Pro Ser Trp
                85                  90                  95

Lys Tyr Leu Gln Glu Val Glu Thr Leu Leu Leu Asn Val Gln Gln Gly
            100                 105                 110

Leu Thr Asp Val Glu Val Ser Pro Lys Val Glu Ser Val Leu Ser Leu
        115                 120                 125
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Leu Asn Ala Pro Gly Pro Asn Leu Lys Leu Val Arg Pro Lys Ala Leu
    130                 135                 140

Leu Asp Asn Cys Phe Arg Val Met Glu Leu Leu Tyr Cys Ser Cys Cys
145                 150                 155                 160

Lys Gln Ser Ser Val Leu Asn Trp Gln Asp Cys Glu Val Pro Ser Pro
                165                 170                 175

Gln Ser Cys Ser Pro Glu Pro Ser Leu Gln Tyr Ala Ala Thr Gln Leu
            180                 185                 190

Tyr Pro Pro Pro Pro Trp Ser Pro Ser Ser Pro Pro His Ser Thr Gly
        195                 200                 205

Ser Val Arg Pro Val Arg Ala Gln Gly Glu Gly Leu Leu Pro His His
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His His His His His His
225                 230
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<400> 16

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Val Asn Ala Ile Gln Glu Ala Arg Arg Leu Leu Asn Leu Ser Arg Asp
            20                  25                  30

Thr Ala Ala Glu Met Asn Glu Thr Val Glu Val Ile Ser Glu Met Phe
        35                  40                  45

Asp Leu Gln Glu Pro Thr Cys Leu Gln Thr Arg Leu Glu Leu Tyr Lys
    50                  55                  60

Gln Gly Leu Arg Gly Ser Leu Thr Lys Leu Lys Gly Pro Leu Thr Met
65                  70                  75                  80
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Met Ala Ser His Tyr Lys Gln His Cys Pro Pro Thr Pro Glu Thr Ser
85 90 95

Cys Ala Thr Gln Ile Ile Thr Phe Glu Ser Phe Lys Glu Asn Leu Lys
100 105 110

Asp Phe Leu Leu Val Ile Pro Phe Asp Cys Trp Glu Pro Val Gln Glu
115 120 125

<210> 17
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<213> Homo sapiens

<400> 17

Gln Val Gln Val Val Thr Gln Asp Glu Arg Glu Gln Leu Tyr Thr Pro
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Ala Ser Leu Lys Cys Ser Leu Gln Asn Ala Gln Glu Ala Leu Ile Val
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Thr Trp Gln Lys Lys Lys Ala Val Ser Pro Glu Asn Met Val Thr Phe
35 40 45

Ser Glu Asn His Gly Val Val Ile Gln Pro Ala Tyr Lys Asp Lys Ile
50 55 60

Asn Ile Thr Gln Leu Gly Leu Gln Asn Ser Thr Ile Thr Phe Trp Asn
65 70 75 80

Ile Thr Leu Glu Asp Glu Gly Cys Tyr Met Cys Leu Phe Asn Thr Phe
85 90 95

Gly Phe Gly Lys Ile Ser Gly Thr Ala Cys Leu Thr Val Tyr Val Gln
100 105 110

Pro Ile Val Ser Leu His Tyr Lys Phe Ser Glu Asp His Leu Asn Ile
115 120 125

Thr Cys Ser Ala Thr Ala Arg Pro Ala Pro Met Val Phe Trp Lys Val

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    130                 135                 140

Pro Arg Ser Gly Ile Glu Asn Ser Thr Val Thr Leu Ser His Pro Asn
145                 150                 155                 160

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

Gln Val Gly Lys Glu Val Ile Cys Gln Val Leu His Leu Gly Thr Val
            180                 185                 190

Thr Asp Phe Lys Gln Thr Val Asn Lys Gly Val Asp His His His His
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His His
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Ser Lys Ile Pro Val Ala Leu Leu Ile His Tyr Gln Gln Asn Gln Ala
            20                  25                  30

Ser Cys Gly Lys Arg Ala Ile Ile Leu Glu Thr Arg Gln His Arg Leu
        35                  40                  45

Phe Cys Ala Asp Pro Lys Glu Gln Trp Val Lys Asp Ala Met Gln His
    50                  55                  60

Leu Asp Arg Gln Ala Ala Ala Leu Thr Arg Asn Gly
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Val Arg Gln Leu Tyr Ile Asp Phe Arg Lys Asp Leu Gly Trp Lys Trp
            20                  25                  30

Ile His Glu Pro Lys Gly Tyr His Ala Asn Phe Cys Leu Gly Pro Cys
        35                  40                  45

Pro Tyr Ile Trp Ser Leu Asp Thr Gln Tyr Ser Lys Val Leu Ala Leu
    50                  55                  60

Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala Pro Cys Cys Val Pro
65                  70                  75                  80

Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr Tyr Val Gly Arg Lys Pro
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Lys Val Glu Gln Leu Ser Asn Met Ile Val Arg Ser Cys Lys Cys Ser
            100                 105                 110
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Gly Ala Pro Gln Glu Ile Val Ala Ala Asn Gln Arg Gly Ser Leu Tyr
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Gln Cys Asp Tyr Ser Thr Gly Ser Cys Glu Pro Ile Arg Leu Gln Val
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Pro Val Glu Ala Val Asn Met Ser Leu Gly Leu Ser Leu Ala Ala Thr
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Thr Ser Pro Pro Gln Leu Leu Ala Cys Gly Pro Thr Val His Gln Thr
100 105 110

Cys Ser Glu Asn Thr Tyr Val Lys Gly Leu Cys Phe Leu Phe Gly Ser
115 120 125

Asn Leu Arg Gln Gln Pro Gln Lys Phe Pro Glu Ala Leu Arg Gly Cys
130 135 140

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Pro Gln Glu Asp Ser Asp Ile Ala Phe Leu Ile Asp Gly Ser Gly Ser
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Ile Ile Pro His Asp Phe Arg Arg Met Lys Glu Phe Val Ser Thr Val
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Met Glu Gln Leu Lys Lys Ser Lys Thr Leu Phe Ser Leu Met Gln Tyr
            180                 185                 190

Ser Glu Glu Phe Arg Ile His Phe Thr Phe Lys Glu Phe Gln Asn Asn
        195                 200                 205

Pro Asn Pro Arg Ser Leu Val Lys Pro Ile Thr Gln Leu Leu Gly Arg
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Thr His Thr Ala Thr Gly Ile Arg Lys Val Val Arg Glu Leu Phe Asn
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Ile Thr Asn Gly Ala Arg Lys Asn Ala Phe Lys Ile Leu Val Val Ile
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Thr Asp Gly Glu Lys Phe Gly Asp Pro Leu Gly Tyr Glu Asp Val Ile
            260                 265                 270

Pro Glu Ala Asp Arg Glu Gly Val Ile Arg Tyr Val Ile Gly Val Gly
        275                 280                 285

Asp Ala Phe Arg Ser Glu Lys Ser Arg Gln Glu Leu Asn Thr Ile Ala
    290                 295                 300

Ser Lys Pro Pro Arg Asp His Val Phe Gln Val Asn Asn Phe Glu Ala
305                 310                 315                 320

Leu Lys Thr Ile Gln Asn Gln Leu Arg Glu Lys Ile Phe Ala Ile Glu
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Gly Thr Gln Thr Gly Ser Ser Ser Ser Phe Glu His Glu Met Ser Gln
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Glu Gly Phe Ser Ala Ala Ile Thr Ser Asn Gly Pro Leu Leu Ser Thr
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Asp Ala Tyr Leu Gly Tyr Ala Ala Ala Ile Ile Leu Arg Asn Arg Val
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Gln Ser Leu Val Leu Gly Ala Pro Arg Tyr Gln His Ile Gly Leu Val
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Ala Met Phe Arg Gln Asn Thr Gly Met Trp Glu Ser Asn Ala Asn Val
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Lys Gly Thr Gln Ile Gly Ala Tyr Phe Gly Ala Ser Leu Cys Ser Val
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His Tyr Tyr Glu Gln Thr Arg Gly Gly Gln Val Ser Val Cys Pro Leu
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Pro Arg Gly Arg Ala Arg Trp Gln Cys Asp Ala Val Leu Tyr Gly Glu
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Gln Gly Gln Pro Trp Gly Arg Phe Gly Ala Ala Leu Thr Val Leu Gly
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Asp Val Asn Gly Asp Lys Leu Thr Asp Val Ala Ile Gly Ala Pro Gly
    530                 535                 540

Glu Glu Asp Asn Arg Gly Ala Val Tyr Leu Phe His Gly Thr Ser Gly
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Ser Gly Ile Ser Pro Ser His Ser Gln Arg Ile Ala Gly Ser Lys Leu
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Ser Pro Arg Leu Gln Tyr Phe Gly Gln Ser Leu Ser Gly Gly Gln Asp
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Leu Thr Met Asp Gly Leu Val Asp Leu Thr Val Gly Ala Gln Gly His
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Val Leu Leu Leu Arg Ser Gln Pro Val Leu Arg Val Lys Ala Ile Met
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Glu Phe Asn Pro Arg Glu Val Ala Arg Asn Val Phe Glu Cys Asn Asp
625                 630                 635                 640

Gln Val Val Lys Gly Lys Glu Ala Gly Glu Val Arg Val Cys Leu His
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Val Gln Lys Ser Thr Arg Asp Arg Leu Arg Glu Gly Gln Ile Gln Ser
            660                 665                 670

Val Val Thr Tyr Asp Leu Ala Leu Asp Ser Gly Arg Pro His Ser Arg
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Ala Val Phe Asn Glu Thr Lys Asn Ser Thr Arg Arg Gln Thr Gln Val
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Leu Gly Leu Thr Gln Thr Cys Glu Thr Leu Lys Leu Gln Leu Pro Asn
705                 710                 715                 720

Cys Ile Glu Asp Pro Val Ser Pro Ile Val Leu Arg Leu Asn Phe Ser
                725                 730                 735

Leu Val Gly Thr Pro Leu Ser Ala Phe Gly Asn Leu Arg Pro Val Leu
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Ala Glu Asp Ala Gln Arg Leu Phe Thr Ala Leu Phe Pro Phe Glu Lys
        755                 760                 765

Asn Cys Gly Asn Asp Asn Ile Cys Gln Asp Asp Leu Ser Ile Thr Phe
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Ser Phe Met Ser Leu Asp Cys Leu Val Val Gly Gly Pro Arg Glu Phe
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            820                 825                 830

Thr Leu Gln Asn Gln Arg Ser Gln Arg Ser Trp Arg Leu Ala Cys Glu
        835                 840                 845

Ser Ala Ser Ser Thr Glu Val Ser Gly Ala Leu Lys Ser Thr Ser Cys
    850                 855                 860

Ser Ile Asn His Pro Ile Phe Pro Glu Asn Ser Glu Val Thr Phe Asn
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Ile Thr Phe Asp Val Asp Ser Lys Ala Ser Leu Gly Asn Lys Leu Leu
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Leu Lys Ala Asn Val Thr Ser Glu Asn Asn Met Pro Arg Thr Asn Lys
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Thr Glu Phe Gln Leu Glu Leu Pro Val Lys Tyr Ala Val Tyr Met Val
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Val Thr Ser His Gly Val Ser Thr Lys Tyr Leu Asn Phe Thr Ala Ser
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Glu Asn Thr Ser Arg Val Met Gln His Gln Tyr Gln Val Ser Asn Leu
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Gly Gln Arg Ser Leu Pro Ile Ser Leu Val Phe Leu Val Pro Val Arg
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Ile Gln  Glu Glu Phe Asn Ala  Thr Leu Lys Gly Asn  Leu Ser Phe
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Asp Trp  Tyr Ile Lys Thr Ser  His Asn His Leu Leu  Ile Val Ser
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Thr Ala  Glu Ile Leu Phe Asn  Asp Ser Val Phe Thr  Leu Leu Pro
    1070                1075                1080


Gly Gln  Gly Ala Phe Val Arg  Ser Gln Thr Glu Thr  Lys Val Glu
    1085                1090                1095


Pro Phe  Glu Val Pro Asn Pro  Leu Pro Leu Ile Val  Gly Ser Ser
    1100                1105                1110


Val Gly  Gly Leu Leu Leu Leu  Ala Leu Ile Thr Ala  Ala Leu Tyr
    1115                1120                1125


Lys Leu  Gly Phe Phe Lys Arg  Gln Tyr Lys Asp Met  Met Ser Glu
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Gly Gly  Pro Pro Gly Ala Glu  Pro Gln
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Asp Ser Ala Gly Phe Gly Asp Ser Val Val Gln Tyr Ala Asn Ser Trp
        35                  40                  45

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

Gly Leu Tyr Gln Cys Gly Tyr Ser Thr Gly Ala Cys Glu Pro Ile Gly
65                  70                  75                  80

Leu Gln Val Pro Pro Glu Ala Val Asn Met Ser Leu Gly Leu Ser Leu
                85                  90                  95

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

His His Glu Cys Gly Arg Asn Met Tyr Leu Thr Gly Leu Cys Phe Leu
        115                 120                 125

Leu Gly Pro Thr Gln Leu Thr Gln Arg Leu Pro Val Ser Arg Gln Glu
    130                 135                 140

Cys Pro Arg Gln Glu Gln Asp Ile Val Phe Leu Ile Asp Gly Ser Gly
145                 150                 155                 160

Ser Ile Ser Ser Arg Asn Phe Ala Thr Met Met Asn Phe Val Arg Ala
                165                 170                 175

Val Ile Ser Gln Phe Gln Arg Pro Ser Thr Gln Phe Ser Leu Met Gln
            180                 185                 190

Phe Ser Asn Lys Phe Gln Thr His Phe Thr Phe Glu Glu Phe Arg Arg
        195                 200                 205

Ser Ser Asn Pro Leu Ser Leu Leu Ala Ser Val His Gln Leu Gln Gly
    210                 215                 220

Phe Thr Tyr Thr Ala Thr Ala Ile Gln Asn Val Val His Arg Leu Phe
225                 230                 235                 240
```

```
His Ala Ser Tyr Gly Ala Arg Arg Asp Ala Ala Lys Ile Leu Ile Val
                245                 250                 255

Ile Thr Asp Gly Lys Lys Glu Gly Asp Ser Leu Asp Tyr Lys Asp Val
            260                 265                 270

Ile Pro Met Ala Asp Ala Ala Gly Ile Ile Arg Tyr Ala Ile Gly Val
        275                 280                 285

Gly Leu Ala Phe Gln Asn Arg Asn Ser Trp Lys Glu Leu Asn Asp Ile
    290                 295                 300

Ala Ser Lys Pro Ser Gln Glu His Ile Phe Lys Val Glu Asp Phe Asp
305                 310                 315                 320

Ala Leu Lys Asp Ile Gln Asn Gln Leu Lys Glu Lys Ile Phe Ala Ile
                325                 330                 335

Glu Gly Thr Glu Thr Thr Ser Ser Ser Ser Phe Glu Leu Glu Met Ala
            340                 345                 350

Gln Glu Gly Phe Ser Ala Val Phe Thr Pro Asp Gly Pro Val Leu Gly
        355                 360                 365

Ala Val Gly Ser Phe Thr Trp Ser Gly Gly Ala Phe Leu Tyr Pro Pro
    370                 375                 380

Asn Met Ser Pro Thr Phe Ile Asn Met Ser Gln Glu Asn Val Asp Met
385                 390                 395                 400

Arg Asp Ser Tyr Leu Gly Tyr Ser Thr Glu Leu Ala Leu Trp Lys Gly
                405                 410                 415

Val Gln Ser Leu Val Leu Gly Ala Pro Arg Tyr Gln His Thr Gly Lys
            420                 425                 430

Ala Val Ile Phe Thr Gln Val Ser Arg Gln Trp Arg Met Lys Ala Glu
        435                 440                 445

Val Thr Gly Thr Gln Ile Gly Ser Tyr Phe Gly Ala Ser Leu Cys Ser
    450                 455                 460
```

```
Val Asp Val Asp Ser Asp Gly Ser Thr Asp Leu Val Leu Ile Gly Ala
465                 470                 475                 480

Pro His Tyr Tyr Glu Gln Thr Arg Gly Gly Gln Val Ser Val Cys Pro
                485                 490                 495

Leu Pro Arg Gly Trp Arg Arg Trp Trp Cys Asp Ala Val Leu Tyr Gly
            500                 505                 510

Glu Gln Gly His Pro Trp Gly Arg Phe Gly Ala Ala Leu Thr Val Leu
        515                 520                 525

Gly Asp Val Asn Gly Asp Lys Leu Thr Asp Val Val Ile Gly Ala Pro
    530                 535                 540

Gly Glu Glu Glu Asn Arg Gly Ala Val Tyr Leu Phe His Gly Val Leu
545                 550                 555                 560

Gly Pro Ser Ile Ser Pro Ser His Ser Gln Arg Ile Ala Gly Ser Gln
                565                 570                 575

Leu Ser Ser Arg Leu Gln Tyr Phe Gly Gln Ala Leu Ser Gly Gly Gln
            580                 585                 590

Asp Leu Thr Gln Asp Gly Leu Val Asp Leu Ala Val Gly Ala Arg Gly
        595                 600                 605

Gln Val Leu Leu Leu Arg Thr Arg Pro Val Leu Trp Val Gly Val Ser
    610                 615                 620

Met Gln Phe Ile Pro Ala Glu Ile Pro Arg Ser Ala Phe Glu Cys Arg
625                 630                 635                 640

Glu Gln Val Val Ser Glu Gln Thr Leu Val Gln Ser Asn Ile Cys Leu
                645                 650                 655

Tyr Ile Asp Lys Arg Ser Lys Asn Leu Leu Gly Ser Arg Asp Leu Gln
            660                 665                 670
```

```
Ser Ser Val Thr Leu Asp Leu Ala Leu Asp Pro Gly Arg Leu Ser Pro
        675                 680                 685

Arg Ala Thr Phe Gln Glu Thr Lys Asn Arg Ser Leu Ser Arg Val Arg
    690                 695                 700

Val Leu Gly Leu Lys Ala His Cys Glu Asn Phe Asn Leu Leu Leu Pro
705                 710                 715                 720

Ser Cys Val Glu Asp Ser Val Thr Pro Ile Thr Leu Arg Leu Asn Phe
                725                 730                 735

Thr Leu Val Gly Lys Pro Leu Leu Ala Phe Arg Asn Leu Arg Pro Met
            740                 745                 750

Leu Ala Ala Asp Ala Gln Arg Tyr Phe Thr Ala Ser Leu Pro Phe Glu
        755                 760                 765

Lys Asn Cys Gly Ala Asp His Ile Cys Gln Asp Asn Leu Gly Ile Ser
    770                 775                 780

Phe Ser Phe Pro Gly Leu Lys Ser Leu Leu Val Gly Ser Asn Leu Glu
785                 790                 795                 800

Leu Asn Ala Glu Val Met Val Trp Asn Asp Gly Glu Asp Ser Tyr Gly
                805                 810                 815

Thr Thr Ile Thr Phe Ser His Pro Ala Gly Leu Ser Tyr Arg Tyr Val
            820                 825                 830

Ala Glu Gly Gln Lys Gln Gly Gln Leu Arg Ser Leu His Leu Thr Cys
        835                 840                 845

Asp Ser Ala Pro Val Gly Ser Gln Gly Thr Trp Ser Thr Ser Cys Arg
    850                 855                 860

Ile Asn His Leu Ile Phe Arg Gly Gly Ala Gln Ile Thr Phe Leu Ala
865                 870                 875                 880

Thr Phe Asp Val Ser Pro Lys Ala Val Leu Gly Asp Arg Leu Leu Leu
                885                 890                 895
```

```
Thr Ala Asn Val Ser Ser Glu Asn Asn Thr Pro Arg Thr Ser Lys Thr
            900                 905                 910

Thr Phe Gln Leu Glu Leu Pro Val Lys Tyr Ala Val Tyr Thr Val Val
        915                 920                 925

Ser Ser His Glu Gln Phe Thr Lys Tyr Leu Asn Phe Ser Glu Ser Glu
    930                 935                 940

Glu Lys Glu Ser His Val Ala Met His Arg Tyr Gln Val Asn Asn Leu
945                 950                 955                 960

Gly Gln Arg Asp Leu Pro Val Ser Ile Asn Phe Trp Val Pro Val Glu
                965                 970                 975

Leu Asn Gln Glu Ala Val Trp Met Asp Val Glu Val Ser His Pro Gln
            980                 985                 990

Asn Pro Ser Leu Arg Cys Ser Ser  Glu Lys Ile Ala Pro  Pro Ala Ser
        995                 1000                1005

Asp Phe  Leu Ala His Ile Gln  Lys Asn Pro Val Leu  Asp Cys Ser
    1010                1015                1020

Ile Ala  Gly Cys Leu Arg Phe  Arg Cys Asp Val Pro  Ser Phe Ser
    1025                1030                1035

Val Gln  Glu Glu Leu Asp Phe  Thr Leu Lys Gly Asn  Leu Ser Phe
    1040                1045                1050

Gly Trp  Val Arg Gln Ile Leu  Gln Lys Lys Val Ser  Val Val Ser
    1055                1060                1065

Val Ala  Glu Ile Thr Phe Asp  Thr Ser Val Tyr Ser  Gln Leu Pro
    1070                1075                1080

Gly Gln  Glu Ala Phe Met Arg  Ala Gln Thr Thr Thr  Val Leu Glu
    1085                1090                1095
```

```
Lys Tyr  Lys Val His Asn Pro  Thr Pro Leu Ile Val  Gly Ser Ser
    1100                1105                1110


Ile Gly  Gly Leu Leu Leu Leu  Ala Leu Ile Thr Ala  Val Leu Tyr
    1115                1120                1125


Lys Val  Gly Phe Phe Lys Arg  Gln Tyr Lys Glu Met  Met Glu Glu
    1130                1135                1140


Ala Asn  Gly Gln Ile Ala Pro  Glu Asn Gly Thr Gln  Thr Pro Ser
    1145                1150                1155


Pro Pro  Ser Glu Lys
    1160
```

<210> 47
<211> 375
<212> PRT
<213> Homo sapiens

<400> 47

```
Met Glu Arg Ala Ser Cys Leu Leu Leu Leu Leu Leu Pro Leu Val His
1               5                   10                  15


Val Ser Ala Thr Thr Pro Glu Pro Cys Glu Leu Asp Asp Glu Asp Phe
            20                  25                  30


Arg Cys Val Cys Asn Phe Ser Glu Pro Gln Pro Asp Trp Ser Glu Ala
        35                  40                  45


Phe Gln Cys Val Ser Ala Val Glu Val Glu Ile His Ala Gly Gly Leu
    50                  55                  60


Asn Leu Glu Pro Phe Leu Lys Arg Val Asp Ala Asp Ala Asp Pro Arg
65                  70                  75                  80


Gln Tyr Ala Asp Thr Val Lys Ala Leu Arg Val Arg Arg Leu Thr Val
                85                  90                  95


Gly Ala Ala Gln Val Pro Ala Gln Leu Leu Val Gly Ala Leu Arg Val
            100                 105                 110
```

```
Leu Ala Tyr Ser Arg Leu Lys Glu Leu Thr Leu Glu Asp Leu Lys Ile
        115                 120                 125

Thr Gly Thr Met Pro Pro Leu Pro Leu Glu Ala Thr Gly Leu Ala Leu
    130                 135                 140

Ser Ser Leu Arg Leu Arg Asn Val Ser Trp Ala Thr Gly Arg Ser Trp
145                 150                 155                 160

Leu Ala Glu Leu Gln Gln Trp Leu Lys Pro Gly Leu Lys Val Leu Ser
                165                 170                 175

Ile Ala Gln Ala His Ser Pro Ala Phe Ser Cys Glu Gln Val Arg Ala
            180                 185                 190

Phe Pro Ala Leu Thr Ser Leu Asp Leu Ser Asp Asn Pro Gly Leu Gly
        195                 200                 205

Glu Arg Gly Leu Met Ala Ala Leu Cys Pro His Lys Phe Pro Ala Ile
    210                 215                 220

Gln Asn Leu Ala Leu Arg Asn Thr Gly Met Glu Thr Pro Thr Gly Val
225                 230                 235                 240

Cys Ala Ala Leu Ala Ala Ala Gly Val Gln Pro His Ser Leu Asp Leu
                245                 250                 255

Ser His Asn Ser Leu Arg Ala Thr Val Asn Pro Ser Ala Pro Arg Cys
            260                 265                 270

Met Trp Ser Ser Ala Leu Asn Ser Leu Asn Leu Ser Phe Ala Gly Leu
        275                 280                 285

Glu Gln Val Pro Lys Gly Leu Pro Ala Lys Leu Arg Val Leu Asp Leu
    290                 295                 300

Ser Cys Asn Arg Leu Asn Arg Ala Pro Gln Pro Asp Glu Leu Pro Glu
305                 310                 315                 320

Val Asp Asn Leu Thr Leu Asp Gly Asn Pro Phe Leu Val Pro Gly Thr
```

```
                325                 330                 335

Ala Leu Pro His Glu Gly Ser Met Asn Ser Gly Val Val Pro Ala Cys
            340                 345                 350

Ala Arg Ser Thr Leu Ser Val Gly Val Ser Gly Thr Leu Val Leu Leu
        355                 360                 365

Gln Gly Ala Arg Gly Phe Ala
    370                 375
```

<210> 48
<211> 254
<212> PRT
<213> Homo sapiens

<400> 48

```
Met Trp Gln Leu Leu Leu Pro Thr Ala Leu Leu Leu Leu Val Ser Ala
1               5                   10                  15

Gly Met Arg Thr Glu Asp Leu Pro Lys Ala Val Val Phe Leu Glu Pro
            20                  25                  30

Gln Trp Tyr Arg Val Leu Glu Lys Asp Ser Val Thr Leu Lys Cys Gln
        35                  40                  45

Gly Ala Tyr Ser Pro Glu Asp Asn Ser Thr Gln Trp Phe His Asn Glu
    50                  55                  60

Ser Leu Ile Ser Ser Gln Ala Ser Ser Tyr Phe Ile Asp Ala Ala Thr
65                  70                  75                  80

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

Ser Asp Pro Val Gln Leu Glu Val His Ile Gly Trp Leu Leu Leu Gln
            100                 105                 110

Ala Pro Arg Trp Val Phe Lys Glu Glu Asp Pro Ile His Leu Arg Cys
        115                 120                 125
```

```
His Ser Trp Lys Asn Thr Ala Leu His Lys Val Thr Tyr Leu Gln Asn
    130                 135                 140

Gly Lys Gly Arg Lys Tyr Phe His His Asn Ser Asp Phe Tyr Ile Pro
145                 150                 155                 160

Lys Ala Thr Leu Lys Asp Ser Gly Ser Tyr Phe Cys Arg Gly Leu Phe
                165                 170                 175

Gly Ser Lys Asn Val Ser Ser Glu Thr Val Asn Ile Thr Ile Thr Gln
            180                 185                 190

Gly Leu Ala Val Ser Thr Ile Ser Ser Phe Phe Pro Pro Gly Tyr Gln
        195                 200                 205

Val Ser Phe Cys Leu Val Met Val Leu Leu Phe Ala Val Asp Thr Gly
    210                 215                 220

Leu Tyr Phe Ser Val Lys Thr Asn Ile Arg Ser Ser Thr Arg Asp Trp
225                 230                 235                 240

Lys Asp His Lys Phe Lys Trp Arg Lys Asp Pro Gln Asp Lys
                245                 250
```

<210> 49
<211> 510
<212> PRT
<213> Homo sapiens

<400> 49

```
Met Glu Asp Thr Lys Glu Ser Asn Val Lys Thr Phe Cys Ser Lys Asn
1               5                   10                  15

Ile Leu Ala Ile Leu Gly Phe Ser Ser Ile Ile Ala Val Ile Ala Leu
            20                  25                  30

Leu Ala Val Gly Leu Thr Gln Asn Lys Ala Leu Pro Glu Asn Val Lys
        35                  40                  45

Tyr Gly Ile Val Leu Asp Ala Gly Ser Ser His Thr Ser Leu Tyr Ile
    50                  55                  60
```

```
Tyr Lys Trp Pro Ala Glu Lys Glu Asn Asp Thr Gly Val Val His Gln
65                  70                  75                  80

Val Glu Glu Cys Arg Val Lys Gly Pro Gly Ile Ser Lys Phe Val Gln
                85                  90                  95

Lys Val Asn Glu Ile Gly Ile Tyr Leu Thr Asp Cys Met Glu Arg Ala
            100                 105                 110

Arg Glu Val Ile Pro Arg Ser Gln His Gln Glu Thr Pro Val Tyr Leu
        115                 120                 125

Gly Ala Thr Ala Gly Met Arg Leu Leu Arg Met Glu Ser Glu Glu Leu
    130                 135                 140

Ala Asp Arg Val Leu Asp Val Val Glu Arg Ser Leu Ser Asn Tyr Pro
145                 150                 155                 160

Phe Asp Phe Gln Gly Ala Arg Ile Ile Thr Gly Gln Glu Glu Gly Ala
                165                 170                 175

Tyr Gly Trp Ile Thr Ile Asn Tyr Leu Leu Gly Lys Phe Ser Gln Lys
            180                 185                 190

Thr Arg Trp Phe Ser Ile Val Pro Tyr Glu Thr Asn Asn Gln Glu Thr
        195                 200                 205

Phe Gly Ala Leu Asp Leu Gly Gly Ala Ser Thr Gln Val Thr Phe Val
    210                 215                 220

Pro Gln Asn Gln Thr Ile Glu Ser Pro Asp Asn Ala Leu Gln Phe Arg
225                 230                 235                 240

Leu Tyr Gly Lys Asp Tyr Asn Val Tyr Thr His Ser Phe Leu Cys Tyr
                245                 250                 255

Gly Lys Asp Gln Ala Leu Trp Gln Lys Leu Ala Lys Asp Ile Gln Val
            260                 265                 270

Ala Ser Asn Glu Ile Leu Arg Asp Pro Cys Phe His Pro Gly Tyr Lys
```

```
        275                 280                 285

Lys Val Val Asn Val Ser Asp Leu Tyr Lys Thr Pro Cys Thr Lys Arg
    290                 295                 300

Phe Glu Met Thr Leu Pro Phe Gln Gln Phe Glu Ile Gln Gly Ile Gly
305                 310                 315                 320

Asn Tyr Gln Gln Cys His Gln Ser Ile Leu Glu Leu Phe Asn Thr Ser
                325                 330                 335

Tyr Cys Pro Tyr Ser Gln Cys Ala Phe Asn Gly Ile Phe Leu Pro Pro
            340                 345                 350

Leu Gln Gly Asp Phe Gly Ala Phe Ser Ala Phe Tyr Phe Val Met Lys
        355                 360                 365

Phe Leu Asn Leu Thr Ser Glu Lys Val Ser Gln Glu Lys Val Thr Glu
    370                 375                 380

Met Met Lys Lys Phe Cys Ala Gln Pro Trp Glu Glu Ile Lys Thr Ser
385                 390                 395                 400

Tyr Ala Gly Val Lys Glu Lys Tyr Leu Ser Glu Tyr Cys Phe Ser Gly
                405                 410                 415

Thr Tyr Ile Leu Ser Leu Leu Leu Gln Gly Tyr His Phe Thr Ala Asp
            420                 425                 430

Ser Trp Glu His Ile His Phe Ile Gly Lys Ile Gln Gly Ser Asp Ala
        435                 440                 445

Gly Trp Thr Leu Gly Tyr Met Leu Asn Leu Thr Asn Met Ile Pro Ala
    450                 455                 460

Glu Gln Pro Leu Ser Thr Pro Leu Ser His Ser Thr Tyr Val Phe Leu
465                 470                 475                 480

Met Val Leu Phe Ser Leu Val Leu Phe Thr Val Ala Ile Ile Gly Leu
                485                 490                 495
```

Leu Ile Phe His Lys Pro Ser Tyr Phe Trp Lys Asp Met Val
500 505 510

<210> 50
<211> 1306
<212> PRT
<213> Homo sapiens

<400> 50

Met Thr Met Tyr Leu Trp Leu Lys Leu Leu Ala Phe Gly Phe Ala Phe
1 5 10 15

Leu Asp Thr Glu Val Phe Val Thr Gly Gln Ser Pro Thr Pro Ser Pro
20 25 30

Thr Gly Leu Thr Thr Ala Lys Met Pro Ser Val Pro Leu Ser Ser Asp
35 40 45

Pro Leu Pro Thr His Thr Thr Ala Phe Ser Pro Ala Ser Thr Phe Glu
50 55 60

Arg Glu Asn Asp Phe Ser Glu Thr Thr Thr Ser Leu Ser Pro Asp Asn
65 70 75 80

Thr Ser Thr Gln Val Ser Pro Asp Ser Leu Asp Asn Ala Ser Ala Phe
85 90 95

Asn Thr Thr Gly Val Ser Ser Val Gln Thr Pro His Leu Pro Thr His
100 105 110

Ala Asp Ser Gln Thr Pro Ser Ala Gly Thr Asp Thr Gln Thr Phe Ser
115 120 125

Gly Ser Ala Ala Asn Ala Lys Leu Asn Pro Thr Pro Gly Ser Asn Ala
130 135 140

Ile Ser Asp Val Pro Gly Glu Arg Ser Thr Ala Ser Thr Phe Pro Thr
145 150 155 160

Asp Pro Val Ser Pro Leu Thr Thr Thr Leu Ser Leu Ala His His Ser
165 170 175

```
Ser Ala Ala Leu Pro Ala Arg Thr Ser Asn Thr Thr Ile Thr Ala Asn
            180                 185                 190

Thr Ser Asp Ala Tyr Leu Asn Ala Ser Glu Thr Thr Thr Leu Ser Pro
        195                 200                 205

Ser Gly Ser Ala Val Ile Ser Thr Thr Thr Ile Ala Thr Thr Pro Ser
    210                 215                 220

Lys Pro Thr Cys Asp Glu Lys Tyr Ala Asn Ile Thr Val Asp Tyr Leu
225                 230                 235                 240

Tyr Asn Lys Glu Thr Lys Leu Phe Thr Ala Lys Leu Asn Val Asn Glu
                245                 250                 255

Asn Val Glu Cys Gly Asn Asn Thr Cys Thr Asn Asn Glu Val His Asn
            260                 265                 270

Leu Thr Glu Cys Lys Asn Ala Ser Val Ser Ile Ser His Asn Ser Cys
        275                 280                 285

Thr Ala Pro Asp Lys Thr Leu Ile Leu Asp Val Pro Pro Gly Val Glu
    290                 295                 300

Lys Phe Gln Leu His Asp Cys Thr Gln Val Glu Lys Ala Asp Thr Thr
305                 310                 315                 320

Ile Cys Leu Lys Trp Lys Asn Ile Glu Thr Phe Thr Cys Asp Thr Gln
                325                 330                 335

Asn Ile Thr Tyr Arg Phe Gln Cys Gly Asn Met Ile Phe Asp Asn Lys
            340                 345                 350

Glu Ile Lys Leu Glu Asn Leu Glu Pro Glu His Glu Tyr Lys Cys Asp
        355                 360                 365

Ser Glu Ile Leu Tyr Asn Asn His Lys Phe Thr Asn Ala Ser Lys Ile
    370                 375                 380
```

```
Ile Lys Thr Asp Phe Gly Ser Pro Gly Glu Pro Gln Ile Ile Phe Cys
385                 390                 395                 400

Arg Ser Glu Ala Ala His Gln Gly Val Ile Thr Trp Asn Pro Pro Gln
                405                 410                 415

Arg Ser Phe His Asn Phe Thr Leu Cys Tyr Ile Lys Glu Thr Glu Lys
            420                 425                 430

Asp Cys Leu Asn Leu Asp Lys Asn Leu Ile Lys Tyr Asp Leu Gln Asn
        435                 440                 445

Leu Lys Pro Tyr Thr Lys Tyr Val Leu Ser Leu His Ala Tyr Ile Ile
    450                 455                 460

Ala Lys Val Gln Arg Asn Gly Ser Ala Ala Met Cys His Phe Thr Thr
465                 470                 475                 480

Lys Ser Ala Pro Pro Ser Gln Val Trp Asn Met Thr Val Ser Met Thr
                485                 490                 495

Ser Asp Asn Ser Met His Val Lys Cys Arg Pro Pro Arg Asp Arg Asn
            500                 505                 510

Gly Pro His Glu Arg Tyr His Leu Glu Val Glu Ala Gly Asn Thr Leu
        515                 520                 525

Val Arg Asn Glu Ser His Lys Asn Cys Asp Phe Arg Val Lys Asp Leu
    530                 535                 540

Gln Tyr Ser Thr Asp Tyr Thr Phe Lys Ala Tyr Phe His Asn Gly Asp
545                 550                 555                 560

Tyr Pro Gly Glu Pro Phe Ile Leu His His Ser Thr Ser Tyr Asn Ser
                565                 570                 575

Lys Ala Leu Ile Ala Phe Leu Ala Phe Leu Ile Ile Val Thr Ser Ile
            580                 585                 590

Ala Leu Leu Val Val Leu Tyr Lys Ile Tyr Asp Leu His Lys Lys Arg
        595                 600                 605
```

```
Ser Cys Asn Leu Asp Glu Gln Gln Glu Leu Val Glu Arg Asp Asp Glu
    610                 615                 620

Lys Gln Leu Met Asn Val Glu Pro Ile His Ala Asp Ile Leu Leu Glu
625                 630                 635                 640

Thr Tyr Lys Arg Lys Ile Ala Asp Glu Gly Arg Leu Phe Leu Ala Glu
                645                 650                 655

Phe Gln Ser Ile Pro Arg Val Phe Ser Lys Phe Pro Ile Lys Glu Ala
            660                 665                 670

Arg Lys Pro Phe Asn Gln Asn Lys Asn Arg Tyr Val Asp Ile Leu Pro
        675                 680                 685

Tyr Asp Tyr Asn Arg Val Glu Leu Ser Glu Ile Asn Gly Asp Ala Gly
    690                 695                 700

Ser Asn Tyr Ile Asn Ala Ser Tyr Ile Asp Gly Phe Lys Glu Pro Arg
705                 710                 715                 720

Lys Tyr Ile Ala Ala Gln Gly Pro Arg Asp Glu Thr Val Asp Asp Phe
                725                 730                 735

Trp Arg Met Ile Trp Glu Gln Lys Ala Thr Val Ile Val Met Val Thr
            740                 745                 750

Arg Cys Glu Glu Gly Asn Arg Asn Lys Cys Ala Glu Tyr Trp Pro Ser
        755                 760                 765

Met Glu Glu Gly Thr Arg Ala Phe Gly Asp Val Val Val Lys Ile Asn
    770                 775                 780

Gln His Lys Arg Cys Pro Asp Tyr Ile Ile Gln Lys Leu Asn Ile Val
785                 790                 795                 800

Asn Lys Lys Glu Lys Ala Thr Gly Arg Glu Val Thr His Ile Gln Phe
                805                 810                 815
```

```
Thr Ser Trp Pro Asp His Gly Val Pro Glu Asp Pro His Leu Leu Leu
            820                 825                 830

Lys Leu Arg Arg Arg Val Asn Ala Phe Ser Asn Phe Phe Ser Gly Pro
        835                 840                 845

Ile Val Val His Cys Ser Ala Gly Val Gly Arg Thr Gly Thr Tyr Ile
    850                 855                 860

Gly Ile Asp Ala Met Leu Glu Gly Leu Glu Ala Glu Asn Lys Val Asp
865                 870                 875                 880

Val Tyr Gly Tyr Val Val Lys Leu Arg Arg Gln Arg Cys Leu Met Val
                885                 890                 895

Gln Val Glu Ala Gln Tyr Ile Leu Ile His Gln Ala Leu Val Glu Tyr
            900                 905                 910

Asn Gln Phe Gly Glu Thr Glu Val Asn Leu Ser Glu Leu His Pro Tyr
        915                 920                 925

Leu His Asn Met Lys Lys Arg Asp Pro Pro Ser Glu Pro Ser Pro Leu
    930                 935                 940

Glu Ala Glu Phe Gln Arg Leu Pro Ser Tyr Arg Ser Trp Arg Thr Gln
945                 950                 955                 960

His Ile Gly Asn Gln Glu Glu Asn Lys Ser Lys Asn Arg Asn Ser Asn
                965                 970                 975

Val Ile Pro Tyr Asp Tyr Asn Arg Val Pro Leu Lys His Glu Leu Glu
            980                 985                 990

Met Ser Lys Glu Ser Glu His Asp  Ser Asp Glu Ser Ser  Asp Asp Asp
        995                 1000                1005

Ser Asp  Ser Glu Glu Pro Ser  Lys Tyr Ile Asn Ala  Ser Phe Ile
    1010                1015                1020

Met Ser  Tyr Trp Lys Pro Glu  Val Met Ile Ala Ala  Gln Gly Pro
    1025                1030                1035
```

```
Leu Lys  Glu Thr Ile Gly Asp  Phe Trp Gln Met Ile  Phe Gln Arg
    1040                1045                1050

Lys Val  Lys Val Ile Val Met  Leu Thr Glu Leu Lys  His Gly Asp
    1055                1060                1065

Gln Glu  Ile Cys Ala Gln Tyr  Trp Gly Glu Gly Lys  Gln Thr Tyr
    1070                1075                1080

Gly Asp  Ile Glu Val Asp Leu  Lys Asp Thr Asp Lys  Ser Ser Thr
    1085                1090                1095

Tyr Thr  Leu Arg Val Phe Glu  Leu Arg His Ser Lys  Arg Lys Asp
    1100                1105                1110

Ser Arg  Thr Val Tyr Gln Tyr  Gln Tyr Thr Asn Trp  Ser Val Glu
    1115                1120                1125

Gln Leu  Pro Ala Glu Pro Lys  Glu Leu Ile Ser Met  Ile Gln Val
    1130                1135                1140

Val Lys  Gln Lys Leu Pro Gln  Lys Asn Ser Ser Glu  Gly Asn Lys
    1145                1150                1155

His His  Lys Ser Thr Pro Leu  Leu Ile His Cys Arg  Asp Gly Ser
    1160                1165                1170

Gln Gln  Thr Gly Ile Phe Cys  Ala Leu Leu Asn Leu  Leu Glu Ser
    1175                1180                1185

Ala Glu  Thr Glu Glu Val Val  Asp Ile Phe Gln Val  Val Lys Ala
    1190                1195                1200

Leu Arg  Lys Ala Arg Pro Gly  Met Val Ser Thr Phe  Glu Gln Tyr
    1205                1210                1215

Gln Phe  Leu Tyr Asp Val Ile  Ala Ser Thr Tyr Pro  Ala Gln Asn
    1220                1225                1230
```

Gly Gln Val Lys Lys Asn Asn His Gln Glu Asp Lys Ile Glu Phe
    1235   1240   1245

Asp Asn Glu Val Asp Lys Val Lys Gln Asp Ala Asn Cys Val Asn
    1250   1255   1260

Pro Leu Gly Ala Pro Glu Lys Leu Pro Glu Ala Lys Glu Gln Ala
    1265   1270   1275

Glu Gly Ser Glu Pro Thr Ser Gly Thr Glu Gly Pro Glu His Ser
    1280   1285   1290

Val Asn Gly Pro Ala Ser Pro Ala Leu Asn Gln Gly Ser
    1295   1300   1305

<210> 51
<211> 354
<212> PRT
<213> Homo sapiens

<400> 51

Met Arg Leu Ala Val Leu Phe Ser Gly Ala Leu Leu Gly Leu Leu Ala
1   5   10   15

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

Leu Pro Ser Phe Thr Val Thr Pro Thr Val Thr Glu Ser Thr Gly Thr
        35   40   45

Thr Ser His Arg Thr Thr Lys Ser His Lys Thr Thr Thr His Arg Thr
    50   55   60

Thr Thr Thr Gly Thr Thr Ser His Gly Pro Thr Thr Ala Thr His Asn
65   70   75   80

Pro Thr Thr Thr Ser His Gly Asn Val Thr Val His Pro Thr Ser Asn
                85   90   95

Ser Thr Ala Thr Ser Gln Gly Pro Ser Thr Ala Thr His Ser Pro Ala
            100   105   110

```
Thr Thr Ser His Gly Asn Ala Thr Val His Pro Thr Ser Asn Ser Thr
        115                 120                 125

Ala Thr Ser Pro Gly Phe Thr Ser Ser Ala His Pro Glu Pro Pro Pro
    130                 135                 140

Pro Ser Pro Ser Pro Ser Pro Thr Ser Lys Glu Thr Ile Gly Asp Tyr
145                 150                 155                 160

Thr Trp Thr Asn Gly Ser Gln Pro Cys Val His Leu Gln Ala Gln Ile
                165                 170                 175

Gln Ile Arg Val Met Tyr Thr Thr Gln Gly Gly Gly Glu Ala Trp Gly
            180                 185                 190

Ile Ser Val Leu Asn Pro Asn Lys Thr Lys Val Gln Gly Ser Cys Glu
        195                 200                 205

Gly Ala His Pro His Leu Leu Leu Ser Phe Pro Tyr Gly His Leu Ser
    210                 215                 220

Phe Gly Phe Met Gln Asp Leu Gln Gln Lys Val Val Tyr Leu Ser Tyr
225                 230                 235                 240

Met Ala Val Glu Tyr Asn Val Ser Phe Pro His Ala Ala Gln Trp Thr
                245                 250                 255

Phe Ser Ala Gln Asn Ala Ser Leu Arg Asp Leu Gln Ala Pro Leu Gly
            260                 265                 270

Gln Ser Phe Ser Cys Ser Asn Ser Ser Ile Ile Leu Ser Pro Ala Val
        275                 280                 285

His Leu Asp Leu Leu Ser Leu Arg Leu Gln Ala Ala Gln Leu Pro His
    290                 295                 300

Thr Gly Val Phe Gly Gln Ser Phe Ser Cys Pro Ser Asp Arg Ser Ile
305                 310                 315                 320

Leu Leu Pro Leu Ile Ile Gly Leu Ile Leu Leu Gly Leu Leu Ala Leu
```

325 330 335

Val Leu Ile Ala Phe Cys Ile Ile Arg Arg Arg Pro Ser Ala Tyr Gln
340 345 350

Ala Leu

<210> 52
<211> 972
<212> PRT
<213> Homo sapiens

<400> 52

Met Gly Pro Gly Val Leu Leu Leu Leu Leu Val Ala Thr Ala Trp His
1 5 10 15

Gly Gln Gly Ile Pro Val Ile Glu Pro Ser Val Pro Glu Leu Val Val
20 25 30

Lys Pro Gly Ala Thr Val Thr Leu Arg Cys Val Gly Asn Gly Ser Val
35 40 45

Glu Trp Asp Gly Pro Pro Ser Pro His Trp Thr Leu Tyr Ser Asp Gly
50 55 60

Ser Ser Ser Ile Leu Ser Thr Asn Asn Ala Thr Phe Gln Asn Thr Gly
65 70 75 80

Thr Tyr Arg Cys Thr Glu Pro Gly Asp Pro Leu Gly Gly Ser Ala Ala
85 90 95

Ile His Leu Tyr Val Lys Asp Pro Ala Arg Pro Trp Asn Val Leu Ala
100 105 110

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

Leu Thr Asp Pro Val Leu Glu Ala Gly Val Ser Leu Val Arg Val Arg
130 135 140

```
Gly Arg Pro Leu Met Arg His Thr Asn Tyr Ser Phe Ser Pro Trp His
145                 150                 155                 160


Gly Phe Thr Ile His Arg Ala Lys Phe Ile Gln Ser Gln Asp Tyr Gln
                165                 170                 175


Cys Ser Ala Leu Met Gly Gly Arg Lys Val Met Ser Ile Ser Ile Arg
            180                 185                 190


Leu Lys Val Gln Lys Val Ile Pro Gly Pro Pro Ala Leu Thr Leu Val
        195                 200                 205


Pro Ala Glu Leu Val Arg Ile Arg Gly Glu Ala Ala Gln Ile Val Cys
    210                 215                 220


Ser Ala Ser Ser Val Asp Val Asn Phe Asp Val Phe Leu Gln His Asn
225                 230                 235                 240


Asn Thr Lys Leu Ala Ile Pro Gln Gln Ser Asp Phe His Asn Asn Arg
                245                 250                 255


Tyr Gln Lys Val Leu Thr Leu Asn Leu Asp Gln Val Asp Phe Gln His
            260                 265                 270


Ala Gly Asn Tyr Ser Cys Val Ala Ser Asn Val Gln Gly Lys His Ser
        275                 280                 285


Thr Ser Met Phe Phe Arg Val Val Glu Ser Ala Tyr Leu Asn Leu Ser
    290                 295                 300


Ser Glu Gln Asn Leu Ile Gln Glu Val Thr Val Gly Glu Gly Leu Asn
305                 310                 315                 320


Leu Lys Val Met Val Glu Ala Tyr Pro Gly Leu Gln Gly Phe Asn Trp
                325                 330                 335


Thr Tyr Leu Gly Pro Phe Ser Asp His Gln Pro Glu Pro Lys Leu Ala
            340                 345                 350


Asn Ala Thr Thr Lys Asp Thr Tyr Arg His Thr Phe Thr Leu Ser Leu
        355                 360                 365
```

```
Pro Arg Leu Lys Pro Ser Glu Ala Gly Arg Tyr Ser Phe Leu Ala Arg
    370                 375                 380

Asn Pro Gly Gly Trp Arg Ala Leu Thr Phe Glu Leu Thr Leu Arg Tyr
385                 390                 395                 400

Pro Pro Glu Val Ser Val Ile Trp Thr Phe Ile Asn Gly Ser Gly Thr
                405                 410                 415

Leu Leu Cys Ala Ala Ser Gly Tyr Pro Gln Pro Asn Val Thr Trp Leu
            420                 425                 430

Gln Cys Ser Gly His Thr Asp Arg Cys Asp Glu Ala Gln Val Leu Gln
        435                 440                 445

Val Trp Asp Asp Pro Tyr Pro Glu Val Leu Ser Gln Glu Pro Phe His
    450                 455                 460

Lys Val Thr Val Gln Ser Leu Leu Thr Val Glu Thr Leu Glu His Asn
465                 470                 475                 480

Gln Thr Tyr Glu Cys Arg Ala His Asn Ser Val Gly Ser Gly Ser Trp
                485                 490                 495

Ala Phe Ile Pro Ile Ser Ala Gly Ala His Thr His Pro Pro Asp Glu
            500                 505                 510

Phe Leu Phe Thr Pro Val Val Val Ala Cys Met Ser Ile Met Ala Leu
        515                 520                 525

Leu Leu Leu Leu Leu Leu Leu Leu Leu Tyr Lys Tyr Lys Gln Lys Pro
    530                 535                 540

Lys Tyr Gln Val Arg Trp Lys Ile Ile Glu Ser Tyr Glu Gly Asn Ser
545                 550                 555                 560

Tyr Thr Phe Ile Asp Pro Thr Gln Leu Pro Tyr Asn Glu Lys Trp Glu
                565                 570                 575
```

```
Phe Pro Arg Asn Asn Leu Gln Phe Gly Lys Thr Leu Gly Ala Gly Ala
            580                 585                 590

Phe Gly Lys Val Val Glu Ala Thr Ala Phe Gly Leu Gly Lys Glu Asp
        595                 600                 605

Ala Val Leu Lys Val Ala Val Lys Met Leu Lys Ser Thr Ala His Ala
    610                 615                 620

Asp Glu Lys Glu Ala Leu Met Ser Glu Leu Lys Ile Met Ser His Leu
625                 630                 635                 640

Gly Gln His Glu Asn Ile Val Asn Leu Leu Gly Ala Cys Thr His Gly
                645                 650                 655

Gly Pro Val Leu Val Ile Thr Glu Tyr Cys Cys Tyr Gly Asp Leu Leu
            660                 665                 670

Asn Phe Leu Arg Arg Lys Ala Glu Ala Met Leu Gly Pro Ser Leu Ser
        675                 680                 685

Pro Gly Gln Asp Pro Glu Gly Gly Val Asp Tyr Lys Asn Ile His Leu
    690                 695                 700

Glu Lys Lys Tyr Val Arg Arg Asp Ser Gly Phe Ser Ser Gln Gly Val
705                 710                 715                 720

Asp Thr Tyr Val Glu Met Arg Pro Val Ser Thr Ser Ser Asn Asp Ser
                725                 730                 735

Phe Ser Glu Gln Asp Leu Asp Lys Glu Asp Gly Arg Pro Leu Glu Leu
            740                 745                 750

Arg Asp Leu Leu His Phe Ser Ser Gln Val Ala Gln Gly Met Ala Phe
        755                 760                 765

Leu Ala Ser Lys Asn Cys Ile His Arg Asp Val Ala Ala Arg Asn Val
    770                 775                 780

Leu Leu Thr Asn Gly His Val Ala Lys Ile Gly Asp Phe Gly Leu Ala
785                 790                 795                 800
```

```
Arg Asp Ile Met Asn Asp Ser Asn Tyr Ile Val Lys Gly Asn Ala Arg
                805                 810                 815

Leu Pro Val Lys Trp Met Ala Pro Glu Ser Ile Phe Asp Cys Val Tyr
            820                 825                 830

Thr Val Gln Ser Asp Val Trp Ser Tyr Gly Ile Leu Leu Trp Glu Ile
        835                 840                 845

Phe Ser Leu Gly Leu Asn Pro Tyr Pro Gly Ile Leu Val Asn Ser Lys
    850                 855                 860

Phe Tyr Lys Leu Val Lys Asp Gly Tyr Gln Met Ala Gln Pro Ala Phe
865                 870                 875                 880

Ala Pro Lys Asn Ile Tyr Ser Ile Met Gln Ala Cys Trp Ala Leu Glu
                885                 890                 895

Pro Thr His Arg Pro Thr Phe Gln Gln Ile Cys Ser Phe Leu Gln Glu
            900                 905                 910

Gln Ala Gln Glu Asp Arg Arg Glu Arg Asp Tyr Thr Asn Leu Pro Ser
        915                 920                 925

Ser Ser Arg Ser Gly Gly Ser Gly Ser Ser Ser Ser Glu Leu Glu Glu
    930                 935                 940

Glu Ser Ser Ser Glu His Leu Thr Cys Cys Glu Gln Gly Asp Ile Ala
945                 950                 955                 960

Gln Pro Leu Leu Gln Pro Asn Asn Tyr Gln Phe Cys
                965                 970
```

<210> 53
<211> 1156
<212> PRT
<213> Homo sapiens

<400> 53

```
Met Ser Lys Leu Arg Met Val Leu Leu Glu Asp Ser Gly Ser Ala Asp
```

```
1               5                   10                  15

Phe Arg Arg His Phe Val Asn Leu Ser Pro Phe Thr Ile Thr Val Val
            20                  25                  30

Leu Leu Leu Ser Ala Cys Phe Val Thr Ser Ser Leu Gly Gly Thr Asp
        35                  40                  45

Lys Glu Leu Arg Leu Val Asp Gly Glu Asn Lys Cys Ser Gly Arg Val
    50                  55                  60

Glu Val Lys Val Gln Glu Glu Trp Gly Thr Val Cys Asn Asn Gly Trp
65                  70                  75                  80

Ser Met Glu Ala Val Ser Val Ile Cys Asn Gln Leu Gly Cys Pro Thr
                85                  90                  95

Ala Ile Lys Ala Pro Gly Trp Ala Asn Ser Ser Ala Gly Ser Gly Arg
            100                 105                 110

Ile Trp Met Asp His Val Ser Cys Arg Gly Asn Glu Ser Ala Leu Trp
        115                 120                 125

Asp Cys Lys His Asp Gly Trp Gly Lys His Ser Asn Cys Thr His Gln
    130                 135                 140

Gln Asp Ala Gly Val Thr Cys Ser Asp Gly Ser Asn Leu Glu Met Arg
145                 150                 155                 160

Leu Thr Arg Gly Gly Asn Met Cys Ser Gly Arg Ile Glu Ile Lys Phe
                165                 170                 175

Gln Gly Arg Trp Gly Thr Val Cys Asp Asp Asn Phe Asn Ile Asp His
            180                 185                 190

Ala Ser Val Ile Cys Arg Gln Leu Glu Cys Gly Ser Ala Val Ser Phe
        195                 200                 205

Ser Gly Ser Ser Asn Phe Gly Glu Gly Ser Gly Pro Ile Trp Phe Asp
    210                 215                 220
```

```
Asp Leu Ile Cys Asn Gly Asn Glu Ser Ala Leu Trp Asn Cys Lys His
225                 230                 235                 240

Gln Gly Trp Gly Lys His Asn Cys Asp His Ala Glu Asp Ala Gly Val
                245                 250                 255

Ile Cys Ser Lys Gly Ala Asp Leu Ser Leu Arg Leu Val Asp Gly Val
            260                 265                 270

Thr Glu Cys Ser Gly Arg Leu Glu Val Arg Phe Gln Gly Glu Trp Gly
        275                 280                 285

Thr Ile Cys Asp Asp Gly Trp Asp Ser Tyr Asp Ala Ala Val Ala Cys
    290                 295                 300

Lys Gln Leu Gly Cys Pro Thr Ala Val Thr Ala Ile Gly Arg Val Asn
305                 310                 315                 320

Ala Ser Lys Gly Phe Gly His Ile Trp Leu Asp Ser Val Ser Cys Gln
                325                 330                 335

Gly His Glu Pro Ala Ile Trp Gln Cys Lys His His Glu Trp Gly Lys
            340                 345                 350

His Tyr Cys Asn His Asn Glu Asp Ala Gly Val Thr Cys Ser Asp Gly
        355                 360                 365

Ser Asp Leu Glu Leu Arg Leu Arg Gly Gly Gly Ser Arg Cys Ala Gly
    370                 375                 380

Thr Val Glu Val Glu Ile Gln Arg Leu Leu Gly Lys Val Cys Asp Arg
385                 390                 395                 400

Gly Trp Gly Leu Lys Glu Ala Asp Val Val Cys Arg Gln Leu Gly Cys
                405                 410                 415

Gly Ser Ala Leu Lys Thr Ser Tyr Gln Val Tyr Ser Lys Ile Gln Ala
            420                 425                 430

Thr Asn Thr Trp Leu Phe Leu Ser Ser Cys Asn Gly Asn Glu Thr Ser
```

```
        435                 440                 445

Leu Trp Asp Cys Lys Asn Trp Gln Trp Gly Gly Leu Thr Cys Asp His
    450                 455                 460

Tyr Glu Glu Ala Lys Ile Thr Cys Ser Ala His Arg Glu Pro Arg Leu
465                 470                 475                 480

Val Gly Gly Asp Ile Pro Cys Ser Gly Arg Val Glu Val Lys His Gly
                485                 490                 495

Asp Thr Trp Gly Ser Ile Cys Asp Ser Asp Phe Ser Leu Glu Ala Ala
            500                 505                 510

Ser Val Leu Cys Arg Glu Leu Gln Cys Gly Thr Val Val Ser Ile Leu
        515                 520                 525

Gly Gly Ala His Phe Gly Glu Gly Asn Gly Gln Ile Trp Ala Glu Glu
    530                 535                 540

Phe Gln Cys Glu Gly His Glu Ser His Leu Ser Leu Cys Pro Val Ala
545                 550                 555                 560

Pro Arg Pro Glu Gly Thr Cys Ser His Ser Arg Asp Val Gly Val Val
                565                 570                 575

Cys Ser Arg Tyr Thr Glu Ile Arg Leu Val Asn Gly Lys Thr Pro Cys
            580                 585                 590

Glu Gly Arg Val Glu Leu Lys Thr Leu Gly Ala Trp Gly Ser Leu Cys
        595                 600                 605

Asn Ser His Trp Asp Ile Glu Asp Ala His Val Leu Cys Gln Gln Leu
    610                 615                 620

Lys Cys Gly Val Ala Leu Ser Thr Pro Gly Gly Ala Arg Phe Gly Lys
625                 630                 635                 640

Gly Asn Gly Gln Ile Trp Arg His Met Phe His Cys Thr Gly Thr Glu
                645                 650                 655
```

```
Gln His Met Gly Asp Cys Pro Val Thr Ala Leu Gly Ala Ser Leu Cys
            660                 665                 670

Pro Ser Glu Gln Val Ala Ser Val Ile Cys Ser Gly Asn Gln Ser Gln
        675                 680                 685

Thr Leu Ser Ser Cys Asn Ser Ser Ser Leu Gly Pro Thr Arg Pro Thr
    690                 695                 700

Ile Pro Glu Glu Ser Ala Val Ala Cys Ile Glu Ser Gly Gln Leu Arg
705                 710                 715                 720

Leu Val Asn Gly Gly Gly Arg Cys Ala Gly Arg Val Glu Ile Tyr His
                725                 730                 735

Glu Gly Ser Trp Gly Thr Ile Cys Asp Asp Ser Trp Asp Leu Ser Asp
            740                 745                 750

Ala His Val Val Cys Arg Gln Leu Gly Cys Gly Glu Ala Ile Asn Ala
        755                 760                 765

Thr Gly Ser Ala His Phe Gly Glu Gly Thr Gly Pro Ile Trp Leu Asp
    770                 775                 780

Glu Met Lys Cys Asn Gly Lys Glu Ser Arg Ile Trp Gln Cys His Ser
785                 790                 795                 800

His Gly Trp Gly Gln Gln Asn Cys Arg His Lys Glu Asp Ala Gly Val
                805                 810                 815

Ile Cys Ser Glu Phe Met Ser Leu Arg Leu Thr Ser Glu Ala Ser Arg
            820                 825                 830

Glu Ala Cys Ala Gly Arg Leu Glu Val Phe Tyr Asn Gly Ala Trp Gly
        835                 840                 845

Thr Val Gly Lys Ser Ser Met Ser Glu Thr Thr Val Gly Val Val Cys
    850                 855                 860

Arg Gln Leu Gly Cys Ala Asp Lys Gly Lys Ile Asn Pro Ala Ser Leu
```

```
865                 870                 875                 880

Asp Lys Ala Met Ser Ile Pro Met Trp Val Asp Asn Val Gln Cys Pro
                885                 890                 895

Lys Gly Pro Asp Thr Leu Trp Gln Cys Pro Ser Ser Pro Trp Glu Lys
            900                 905                 910

Arg Leu Ala Ser Pro Ser Glu Glu Thr Trp Ile Thr Cys Asp Asn Lys
        915                 920                 925

Ile Arg Leu Gln Glu Gly Pro Thr Ser Cys Ser Gly Arg Val Glu Ile
    930                 935                 940

Trp His Gly Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Leu
945                 950                 955                 960

Asp Asp Ala Gln Val Val Cys Gln Gln Leu Gly Cys Gly Pro Ala Leu
                965                 970                 975

Lys Ala Phe Lys Glu Ala Glu Phe Gly Gln Gly Thr Gly Pro Ile Trp
            980                 985                 990

Leu Asn Glu Val Lys Cys Lys Gly  Asn Glu Ser Ser Leu  Trp Asp Cys
        995                 1000                1005

Pro Ala  Arg Arg Trp Gly His  Ser Glu Cys Gly His  Lys Glu Asp
    1010                1015                1020

Ala Ala  Val Asn Cys Thr Asp  Ile Ser Val Gln Lys  Thr Pro Gln
    1025                1030                1035

Lys Ala  Thr Thr Gly Arg Ser  Ser Arg Gln Ser Ser  Phe Ile Ala
    1040                1045                1050

Val Gly  Ile Leu Gly Val Val  Leu Leu Ala Ile Phe  Val Ala Leu
    1055                1060                1065

Phe Phe  Leu Thr Lys Lys Arg  Arg Gln Arg Gln Arg  Leu Ala Val
    1070                1075                1080
```

Ser Ser Arg Gly Glu Asn Leu Val His Gln Ile Gln Tyr Arg Glu
    1085   1090   1095

Met Asn Ser Cys Leu Asn Ala Asp Asp Leu Asp Leu Met Asn Ser
    1100   1105   1110

Ser Glu Asn Ser His Glu Ser Ala Asp Phe Ser Ala Ala Glu Leu
    1115   1120   1125

Ile Ser Val Ser Lys Phe Leu Pro Ile Ser Gly Met Glu Lys Glu
    1130   1135   1140

Ala Ile Leu Ser His Thr Glu Lys Glu Asn Gly Asn Leu
    1145   1150   1155

<210> 54
<211> 355
<212> PRT
<213> Homo sapiens

<400> 54

Met Asp Gln Phe Pro Glu Ser Val Thr Glu Asn Phe Glu Tyr Asp Asp
1   5   10   15

Leu Ala Glu Ala Cys Tyr Ile Gly Asp Ile Val Val Phe Gly Thr Val
            20   25   30

Phe Leu Ser Ile Phe Tyr Ser Val Ile Phe Ala Ile Gly Leu Val Gly
        35   40   45

Asn Leu Leu Val Val Phe Ala Leu Thr Asn Ser Lys Lys Pro Lys Ser
    50   55   60

Val Thr Asp Ile Tyr Leu Leu Asn Leu Ala Leu Ser Asp Leu Leu Phe
65   70   75   80

Val Ala Thr Leu Pro Phe Trp Thr His Tyr Leu Ile Asn Glu Lys Gly
                85   90   95

Leu His Asn Ala Met Cys Lys Phe Thr Thr Ala Phe Phe Phe Ile Gly
            100   105   110

```
Phe Phe Gly Ser Ile Phe Phe Ile Thr Val Ile Ser Ile Asp Arg Tyr
        115                 120                 125

Leu Ala Ile Val Leu Ala Ala Asn Ser Met Asn Asn Arg Thr Val Gln
    130                 135                 140

His Gly Val Thr Ile Ser Leu Gly Val Trp Ala Ala Ala Ile Leu Val
145                 150                 155                 160

Ala Ala Pro Gln Phe Met Phe Thr Lys Gln Lys Glu Asn Glu Cys Leu
                165                 170                 175

Gly Asp Tyr Pro Glu Val Leu Gln Glu Ile Trp Pro Val Leu Arg Asn
            180                 185                 190

Val Glu Thr Asn Phe Leu Gly Phe Leu Leu Pro Leu Leu Ile Met Ser
        195                 200                 205

Tyr Cys Tyr Phe Arg Ile Ile Gln Thr Leu Phe Ser Cys Lys Asn His
    210                 215                 220

Lys Lys Ala Lys Ala Ile Lys Leu Ile Leu Leu Val Val Ile Val Phe
225                 230                 235                 240

Phe Leu Phe Trp Thr Pro Tyr Asn Val Met Ile Phe Leu Glu Thr Leu
                245                 250                 255

Lys Leu Tyr Asp Phe Phe Pro Ser Cys Asp Met Arg Lys Asp Leu Arg
            260                 265                 270

Leu Ala Leu Ser Val Thr Glu Thr Val Ala Phe Ser His Cys Cys Leu
        275                 280                 285

Asn Pro Leu Ile Tyr Ala Phe Ala Gly Glu Lys Phe Arg Arg Tyr Leu
    290                 295                 300

Tyr His Leu Tyr Gly Lys Cys Leu Ala Val Leu Cys Gly Arg Ser Val
305                 310                 315                 320
```

His Val Asp Phe Ser Ser Ser Glu Ser Gln Arg Ser Arg His Gly Ser
325 330 335

Val Leu Ser Ser Asn Phe Thr Tyr His Thr Ser Asp Gly Asp Ala Leu
340 345 350

Leu Leu Leu
355

<210> 55
<211> 230
<212> PRT
<213> Homo sapiens

<400> 55

Met Glu Pro Leu Arg Leu Leu Ile Leu Leu Phe Val Thr Glu Leu Ser
1 5 10 15

Gly Ala His Asn Thr Thr Val Phe Gln Gly Val Ala Gly Gln Ser Leu
20 25 30

Gln Val Ser Cys Pro Tyr Asp Ser Met Lys His Trp Gly Arg Arg Lys
35 40 45

Ala Trp Cys Arg Gln Leu Gly Glu Lys Gly Pro Cys Gln Arg Val Val
50 55 60

Ser Thr His Asn Leu Trp Leu Leu Ser Phe Leu Arg Arg Trp Asn Gly
65 70 75 80

Ser Thr Ala Ile Thr Asp Asp Thr Leu Gly Gly Thr Leu Thr Ile Thr
85 90 95

Leu Arg Asn Leu Gln Pro His Asp Ala Gly Leu Tyr Gln Cys Gln Ser
100 105 110

Leu His Gly Ser Glu Ala Asp Thr Leu Arg Lys Val Leu Val Glu Val
115 120 125

Leu Ala Asp Pro Leu Asp His Arg Asp Ala Gly Asp Leu Trp Phe Pro
130 135 140

```
Gly Glu Ser Glu Ser Phe Glu Asp Ala His Val Glu His Ser Ile Ser
145                 150                 155                 160


Arg Ser Leu Leu Glu Gly Glu Ile Pro Phe Pro Pro Thr Ser Ile Leu
                165                 170                 175


Leu Leu Leu Ala Cys Ile Phe Leu Ile Lys Ile Leu Ala Ala Ser Ala
            180                 185                 190


Leu Trp Ala Ala Ala Trp His Gly Gln Lys Pro Gly Thr His Pro Pro
        195                 200                 205


Ser Glu Leu Asp Cys Gly His Asp Pro Gly Tyr Gln Leu Gln Thr Leu
    210                 215                 220


Pro Gly Leu Arg Asp Thr
225                 230


<210>  56
<211>  342
<212>  PRT
<213>  Homo sapiens

<400>  56

Met Gln Ala Val Asp Asn Leu Thr Ser Ala Pro Gly Asn Thr Ser Leu
1               5                   10                  15


Cys Thr Arg Asp Tyr Lys Ile Thr Gln Val Leu Phe Pro Leu Leu Tyr
            20                  25                  30


Thr Val Leu Phe Phe Val Gly Leu Ile Thr Asn Gly Leu Ala Met Arg
        35                  40                  45


Ile Phe Phe Gln Ile Arg Ser Lys Ser Asn Phe Ile Ile Phe Leu Lys
    50                  55                  60


Asn Thr Val Ile Ser Asp Leu Leu Met Ile Leu Thr Phe Pro Phe Lys
65                  70                  75                  80


Ile Leu Ser Asp Ala Lys Leu Gly Thr Gly Pro Leu Arg Thr Phe Val
                85                  90                  95
```

```
Cys Gln Val Thr Ser Val Ile Phe Tyr Phe Thr Met Tyr Ile Ser Ile
            100                 105                 110

Ser Phe Leu Gly Leu Ile Thr Ile Asp Arg Tyr Gln Lys Thr Thr Arg
        115                 120                 125

Pro Phe Lys Thr Ser Asn Pro Lys Asn Leu Leu Gly Ala Lys Ile Leu
    130                 135                 140

Ser Val Val Ile Trp Ala Phe Met Phe Leu Leu Ser Leu Pro Asn Met
145                 150                 155                 160

Ile Leu Thr Asn Arg Gln Pro Arg Asp Lys Asn Val Lys Lys Cys Ser
                165                 170                 175

Phe Leu Lys Ser Glu Phe Gly Leu Val Trp His Glu Ile Val Asn Tyr
            180                 185                 190

Ile Cys Gln Val Ile Phe Trp Ile Asn Phe Leu Ile Val Ile Val Cys
        195                 200                 205

Tyr Thr Leu Ile Thr Lys Glu Leu Tyr Arg Ser Tyr Val Arg Thr Arg
    210                 215                 220

Gly Val Gly Lys Val Pro Arg Lys Lys Val Asn Val Lys Val Phe Ile
225                 230                 235                 240

Ile Ile Ala Val Phe Phe Ile Cys Phe Val Pro Phe His Phe Ala Arg
                245                 250                 255

Ile Pro Tyr Thr Leu Ser Gln Thr Arg Asp Val Phe Asp Cys Thr Ala
            260                 265                 270

Glu Asn Thr Leu Phe Tyr Val Lys Glu Ser Thr Leu Trp Leu Thr Ser
        275                 280                 285

Leu Asn Ala Cys Leu Asp Pro Phe Ile Tyr Phe Phe Leu Cys Lys Ser
    290                 295                 300
```

```
Phe Arg Asn Ser Leu Ile Ser Met Leu Lys Cys Pro Asn Ser Ala Thr
305                 310                 315                 320


Ser Leu Ser Gln Asp Asn Arg Lys Lys Glu Gln Asp Gly Gly Asp Pro
                325                 330                 335


Asn Glu Glu Thr Pro Met
            340
```

<210> 57
<211> 283
<212> PRT
<213> Homo sapiens

<400> 57

```
Met Val Ser Ala Ala Ala Pro Ser Leu Leu Ile Leu Leu Leu Leu Leu
1               5                   10                  15


Leu Gly Ser Val Pro Ala Thr Asp Ala Arg Ser Val Pro Leu Lys Ala
            20                  25                  30


Thr Phe Leu Glu Asp Val Ala Gly Ser Gly Glu Ala Glu Gly Ser Ser
        35                  40                  45


Ala Ser Ser Pro Ser Leu Pro Pro Pro Trp Thr Pro Ala Leu Ser Pro
    50                  55                  60


Thr Ser Met Gly Pro Gln Pro Ile Thr Leu Gly Gly Pro Ser Pro Pro
65                  70                  75                  80


Thr Asn Phe Leu Asp Gly Ile Val Asp Phe Phe Arg Gln Tyr Val Met
                85                  90                  95


Leu Ile Ala Val Val Gly Ser Leu Ala Phe Leu Leu Met Phe Ile Val
            100                 105                 110


Cys Ala Ala Val Ile Thr Arg Gln Lys Gln Lys Ala Ser Ala Tyr Tyr
        115                 120                 125


Pro Ser Ser Phe Pro Lys Lys Lys Tyr Val Asp Gln Ser Asp Arg Ala
    130                 135                 140
```

```
Gly Gly Pro Arg Ala Phe Ser Glu Val Pro Asp Arg Ala Pro Asp Ser
145                 150                 155                 160


Arg Pro Glu Glu Ala Leu Asp Ser Ser Arg Gln Leu Gln Ala Asp Ile
                165                 170                 175


Leu Ala Ala Thr Gln Asn Leu Lys Ser Pro Thr Arg Ala Ala Leu Gly
            180                 185                 190


Gly Gly Asp Gly Ala Arg Met Val Glu Gly Arg Gly Ala Glu Glu Glu
        195                 200                 205


Glu Lys Gly Ser Gln Glu Gly Asp Gln Glu Val Gln Gly His Gly Val
    210                 215                 220


Pro Val Glu Thr Pro Glu Ala Gln Glu Glu Pro Cys Ser Gly Val Leu
225                 230                 235                 240


Glu Gly Ala Val Val Ala Gly Glu Gly Gln Gly Glu Leu Glu Gly Ser
                245                 250                 255


Leu Leu Leu Ala Gln Glu Ala Gln Gly Pro Val Gly Pro Pro Glu Ser
            260                 265                 270


Pro Cys Ala Cys Ser Ser Val His Pro Ser Val
        275                 280


<210>  58
<211>  254
<212>  PRT
<213>  Homo sapiens

<400>  58

Met Ala Ile Ser Gly Val Pro Val Leu Gly Phe Phe Ile Ile Ala Val
1               5                   10                  15


Leu Met Ser Ala Gln Glu Ser Trp Ala Ile Lys Glu Glu His Val Ile
            20                  25                  30


Ile Gln Ala Glu Phe Tyr Leu Asn Pro Asp Gln Ser Gly Glu Phe Met
        35                  40                  45
```

```
Phe Asp Phe Asp Gly Asp Glu Ile Phe His Val Asp Met Ala Lys Lys
    50                  55                  60

Glu Thr Val Trp Arg Leu Glu Glu Phe Gly Arg Phe Ala Ser Phe Glu
65                  70                  75                  80

Ala Gln Gly Ala Leu Ala Asn Ile Ala Val Asp Lys Ala Asn Leu Glu
                85                  90                  95

Ile Met Thr Lys Arg Ser Asn Tyr Thr Pro Ile Thr Asn Val Pro Pro
            100                 105                 110

Glu Val Thr Val Leu Thr Asn Ser Pro Val Glu Leu Arg Glu Pro Asn
        115                 120                 125

Val Leu Ile Cys Phe Ile Asp Lys Phe Thr Pro Pro Val Val Asn Val
    130                 135                 140

Thr Trp Leu Arg Asn Gly Lys Pro Val Thr Thr Gly Val Ser Glu Thr
145                 150                 155                 160

Val Phe Leu Pro Arg Glu Asp His Leu Phe Arg Lys Phe His Tyr Leu
                165                 170                 175

Pro Phe Leu Pro Ser Thr Glu Asp Val Tyr Asp Cys Arg Val Glu His
            180                 185                 190

Trp Gly Leu Asp Glu Pro Leu Leu Lys His Trp Glu Phe Asp Ala Pro
        195                 200                 205

Ser Pro Leu Pro Glu Thr Thr Glu Asn Val Val Cys Ala Leu Gly Leu
    210                 215                 220

Thr Val Gly Leu Val Gly Ile Ile Ile Gly Thr Ile Phe Ile Ile Lys
225                 230                 235                 240

Gly Val Arg Lys Ser Asn Ala Ala Glu Arg Arg Gly Pro Leu
                245                 250
```

<210> 59
<211> 20
<212> PRT
<213> Homo sapiens

<400> 59

Gly Gly Thr Ala Thr Gly Thr Thr Thr Cys Ala Thr Cys Cys Ala Cys
1 5 10 15

Thr Gly Gly Cys
20

<210> 60
<211> 20
<212> DNA
<213> Homo sapiens

<400> 60
gtctatacaa aggaagacct 20

<210> 61
<211> 7844
<212> DNA
<213> artificial sequence

<220>
<223> vector PUC_AAVS1_p-Resp-(PU.1-CEBPB)

<400> 61
gaactttaaa agtgctcatc attggaaaac gttcttcggg gcgaaaactc tcaaggatct 60

taccgctgtt gagatccagt tcgatgtaac ccactcgtgc acccaactga tcttcagcat 120

cttttacttt caccagcgtt tctgggtgag caaaaacagg aaggcaaaat gccgcaaaaa 180

agggaataag ggcgacacgg aaatgttgaa tactcatact cttccttttt caatattatt 240

gaagcattta tcagggttat tgtctcatga gcggatacat atttgaatgt atttagaaaa 300

ataaacaaat aggggttccg cgcacatttc cccgaaaagt gccacctgac gtctaagaaa 360

ccattattat catgacatta acctataaaa ataggcgtat cacgaggccc tttcgtctcg 420

cgcgtttcgg tgatgacggt gaaaacctct gacacatgca gctcccggag acggtcacag 480

cttgtctgta agcggatgcc gggagcagac aagcccgtca gggcgcgtca gcgggtgttg 540

gcgggtgtcg gggctggctt aactatgcgg catcagagca gattgtactg agagtgcacc 600

atatgcggtg tgaaataccg cacagatgcg taaggagaaa ataccgcatc aggcgccatt 660

cgccattcag gctgcgcaac tgttgggaag ggcgatcggt gcgggcctct tcgctattac 720

gccagctggc gaaaggggga tgtgctgcaa ggcgattaag ttgggtaacg ccagggtttt 780

cccagtcacg acgttgtaaa acgacggcca gtgaattgtg ctttctctga ccagcattct 840

ctcccctggg cctgtgccgc tttctgtctg tagcttgtgg cctgggtcac ctctacggct 900

ggcccagatc cttccctgcc gcctccttca ggttccgtct tcctccactc cctcttcccc 960

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