

P48611GB seq 1st.ST25
SEQUENCE LISTING

<110> Medical Research Council

<120> Methods

<130> MEDBY/P48611PC

<150> US 12/763005

<151> 2010-04-19

<150> GB 1006502.7

<151> 2010-04-19

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<151> 2010-06-30

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<151> 2010-07-01

<160> 38

<170> PatentIn version 3.3

<210> 1

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<212> PRT

<213> Homo sapiens

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Met Thr Met Asp Lys Ser Glu Leu Val Gln Lys Ala Lys Leu Ala Glu
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Gln Ala Glu Arg Tyr Asp Asp Met Ala Ala Ala Met Lys Ala Val Thr
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Glu Gln Gly His Glu Leu Ser Asn Glu Glu Arg Asn Leu Leu Ser Val
35 40 45

Ala Tyr Lys Asn Val Val Gly Ala Arg Arg Ser Ser Trp Arg Val Ile
50 55 60

Ser Ser Ile Glu Gln Lys Thr Glu Arg Asn Glu Lys Lys Gln Gln Met
65 70 75 80

Gly Lys Glu Tyr Arg Glu Lys Ile Glu Ala Glu Leu Gln Asp Ile Cys
85 90 95

Asn Asp Val Leu Glu Leu Leu Asp Lys Tyr Leu Ile Pro Asn Ala Thr
100 105 110

Gln Pro Glu Ser Lys Val Phe Tyr Leu Lys Met Lys Gly Asp Tyr Phe
115 120 125

Arg Tyr Leu Ser Glu Val Ala Ser Gly Asp Asn Lys Gln Thr Thr Val
130 135 140

Ser Asn Ser Gln Gln Ala Tyr Gln Glu Ala Phe Glu Ile Ser Lys Lys

P48611GB seq 1st.ST25

Ser Asn Ser Gln Gln Ala Tyr Gln Glu Ala Phe Glu Ile Ser Lys Lys
145 150 155 160

Glu Met Gln Pro Thr His Pro Ile Arg Leu Gly Leu Ala Leu Asn Phe
165 170 175

Ser Val Phe Tyr Tyr Glu Ile Leu Asn Ser Pro Glu Lys Ala Cys Ser
180 185 190

Leu Ala Lys Thr Ala Phe Asp Glu Ala Ile Ala Glu Leu Asp Thr Leu
195 200 205

Asn Glu Glu Ser Tyr Lys Asp Ser Thr Leu Ile Met Gln Leu Leu Arg
210 215 220

Asp Asn Leu Thr Leu Trp Thr Ser Glu Asn Gln Gly Asp Glu Gly Asp
225 230 235 240

Ala Gly Glu Gly Glu Asn
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Ala Glu Arg Tyr Asp Glu Met Val Glu Ser Met Lys Lys Val Ala Gly
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Met Asp Val Glu Leu Thr Val Glu Glu Arg Asn Leu Leu Ser Val Ala
35 40 45

Tyr Lys Asn Val Ile Gly Ala Arg Arg Ala Ser Trp Arg Ile Ile Ser
50 55 60

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

Met Ile Arg Glu Tyr Arg Gln Met Val Glu Thr Glu Leu Lys Leu Ile
85 90 95

Cys Cys Asp Ile Leu Asp Val Leu Asp Lys His Leu Ile Pro Ala Ala
100 105 110

Asn Thr Gly Glu Ser Lys Val Phe Tyr Tyr Lys Met Lys Gly Asp Tyr
115 120 125

P48611GB seq 1st.ST25

His Arg Tyr Leu Ala Glu Phe Ala Thr Gly Asn Asp Arg Lys Glu Ala
130 135 140

Ala Glu Asn Ser Leu Val Ala Tyr Lys Ala Ala Ser Asp Ile Ala Met
145 150 155 160

Thr Glu Leu Pro Pro Thr His Pro Ile Arg Leu Gly Leu Ala Leu Asn
165 170 175

Phe Ser Val Phe Tyr Tyr Glu Ile Leu Asn Ser Pro Asp Arg Ala Cys
180 185 190

Arg Leu Ala Lys Ala Ala Phe Asp Asp Ala Ile Ala Glu Leu Asp Thr
195 200 205

Leu Ser Glu Glu Ser Tyr Lys Asp Ser Thr Leu Ile Met Gln Leu Leu
210 215 220

Arg Asp Asn Leu Thr Leu Trp Thr Ser Asp Met Gln Gly Asp Gly Glu
225 230 235 240

Glu Gln Asn Lys Glu Ala Leu Gln Asp Val Glu Asp Glu Asn Gln
245 250 255

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Ala Glu Arg Tyr Asp Glu Met Val Glu Ser Met Lys Lys Val Ala Gly
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Met Asp Val Glu Leu Thr Val Glu Glu Arg Asn Leu Leu Ser Val Ala
35 40 45

Tyr Lys Asn Val Ile Gly Ala Arg Arg Ala Ser Trp Arg Ile Ile Ser
50 55 60

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

Met Ile Arg Glu Tyr Arg Gln Met Val Glu Thr Glu Leu Lys Leu Ile
85 90 95

Cys Cys Asp Ile Leu Asp Val Gln Asp Lys His Leu Ile Pro Ala Ala
100 105 110

P48611GB seq 1st.ST25

Asn Thr Gly Glu Ser Lys Val Phe Tyr Tyr Lys Met Lys Gly Asp Tyr
115 120 125

His Arg Tyr Leu Ala Glu Phe Ala Thr Gly Asn Asp Arg Lys Glu Ala
130 135 140

Ala Glu Asn Ser Leu Val Ala Tyr Lys Ala Ala Ser Asp Ile Ala Met
145 150 155 160

Thr Glu Leu Pro Pro Thr His Pro Ile Arg Leu Gly Leu Ala Leu Asn
165 170 175

Phe Ser Val Phe Tyr Tyr Glu Ile Leu Asn Ser Pro Asp Arg Ala Cys
180 185 190

Arg Leu Ala Lys Ala Ala Phe Asp Asp Ala Ile Ala Glu Leu Asp Thr
195 200 205

Leu Ser Glu Glu Ser Tyr Lys Asp Ser Thr Leu Ile Met Gln Leu Leu
210 215 220

Arg Asp Asn Leu Thr Leu Trp Thr Ser Asp Met Gln Gly Asp Gly Glu
225 230 235 240

Glu Gln Asn Lys Glu Ala Leu Gln Asp Val Glu Asp Glu Asn Gln
245 250 255

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Met Gly Asp Arg Glu Gln Leu Leu Gln Arg Ala Arg Leu Ala Glu Gln
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35 40 45

Tyr Lys Asn Val Val Gly Ala Arg Arg Ser Ser Trp Arg Val Ile Ser
50 55 60

Ser Ile Glu Gln Lys Thr Met Ala Asp Gly Asn Glu Lys Lys Leu Glu
65 70 75 80

Lys Val Lys Ala Tyr Arg Glu Lys Ile Glu Lys Glu Leu Glu Thr Val
85 90 95

Cys Asn Asp Val Leu Ser Leu Leu Asp Lys Phe Leu Ile Lys Asn Cys

P48611GB seq 1st.ST25

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Asn Asp Phe Gln Tyr Glu Ser Lys Val Phe Tyr Leu Lys Met Lys Gly
115 120 125

Asp Tyr Tyr Arg Tyr Leu Ala Glu Val Ala Ser Gly Glu Lys Lys Asn
130 135 140

Ser Val Val Glu Ala Ser Glu Ala Ala Tyr Lys Glu Ala Phe Glu Ile
145 150 155 160

Ser Lys Glu Gln Met Gln Pro Thr His Pro Ile Arg Leu Gly Leu Ala
165 170 175

Leu Asn Phe Ser Val Phe Tyr Tyr Glu Ile Gln Asn Ala Pro Glu Gln
180 185 190

Ala Cys Leu Leu Ala Lys Gln Ala Phe Asp Asp Ala Ile Ala Glu Leu
195 200 205

Asp Thr Leu Asn Glu Asp Ser Tyr Lys Asp Ser Thr Leu Ile Met Gln
210 215 220

Leu Leu Arg Asp Asn Leu Thr Leu Trp Thr Ser Asp Gln Gln Asp Glu
225 230 235 240

Glu Ala Gly Glu Gly Asn
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Leu Asn Glu Pro Leu Ser Asn Glu Asp Arg Asn Leu Leu Ser Val Ala
35 40 45

Tyr Lys Asn Val Val Gly Ala Arg Arg Ser Ser Trp Arg Val Ile Ser
50 55 60

Ser Ile Glu Gln Lys Thr Met Ala Asp Gly Asn Glu Lys Lys Leu Glu
65 70 75 80

Lys Val Lys Ala Tyr Arg Glu Lys Ile Glu Lys Glu Leu Glu Thr Val
85 90 95

P48611GB seq 1st.ST25

Cys Asn Asp Val Leu Ala Leu Leu Asp Lys Phe Leu Ile Lys Asn Cys
100 105 110

Asn Asp Phe Gln Tyr Glu Ser Lys Val Phe Tyr Leu Lys Met Lys Gly
115 120 125

Asp Tyr Tyr Arg Tyr Leu Ala Glu Val Ala Ser Gly Glu Lys Lys Asn
130 135 140

Ser Val Val Glu Ala Ser Glu Ala Ala Tyr Lys Glu Ala Phe Glu Ile
145 150 155 160

Ser Lys Glu His Met Gln Pro Thr His Pro Ile Arg Leu Gly Leu Ala
165 170 175

Leu Asn Phe Ser Val Phe Tyr Tyr Glu Ile Gln Asn Ala Pro Glu Gln
180 185 190

Ala Cys Leu Leu Ala Lys Gln Ala Phe Asp Asp Ala Ile Ala Glu Leu
195 200 205

Asp Thr Leu Asn Glu Asp Ser Tyr Lys Asp Ser Thr Leu Ile Met Gln
210 215 220

Leu Leu Arg Asp Asn Leu Thr Leu Trp Thr Ser Asp Gln Gln Asp Glu
225 230 235 240

Glu Ala Gly Glu Gly Asn
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<213> Homo sapiens

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

Tyr Lys Asn Val Val Gly Ala Arg Arg Ser Ser Trp Arg Val Ile Ser
50 55 60

Ser Ile Glu Gln Lys Thr Ser Ala Asp Gly Asn Glu Lys Lys Ile Glu
65 70 75 80

P48611GB seq 1st.ST25

Met Val Arg Ala Tyr Arg Glu Lys Ile Glu Lys Glu Leu Glu Ala Val
85 90 95

Cys Gln Asp Val Leu Ser Leu Leu Asp Asn Tyr Leu Ile Lys Asn Cys
100 105 110

Ser Glu Thr Gln Tyr Glu Ser Lys Val Phe Tyr Leu Lys Met Lys Gly
115 120 125

Asp Tyr Tyr Arg Tyr Leu Ala Glu Val Ala Thr Gly Glu Lys Arg Ala
130 135 140

Thr Val Val Glu Ser Ser Glu Lys Ala Tyr Ser Glu Ala His Glu Ile
145 150 155 160

Ser Lys Glu His Met Gln Pro Thr His Pro Ile Arg Leu Gly Leu Ala
165 170 175

Leu Asn Tyr Ser Val Phe Tyr Tyr Glu Ile Gln Asn Ala Pro Glu Gln
180 185 190

Ala Cys His Leu Ala Lys Thr Ala Phe Asp Asp Ala Ile Ala Glu Leu
195 200 205

Asp Thr Leu Asn Glu Asp Ser Tyr Lys Asp Ser Thr Leu Ile Met Gln
210 215 220

Leu Leu Arg Asp Asn Leu Thr Leu Trp Thr Ser Asp Gln Gln Asp Asp
225 230 235 240

Asp Gly Gly Glu Gly Asn Asn
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Met Val Asp Arg Glu Gln Leu Val Gln Lys Ala Arg Leu Ala Glu Gln
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Ala Glu Arg Tyr Asp Asp Met Ala Ala Ala Met Lys Asn Val Thr Glu
20 25 30

Leu Asn Glu Pro Leu Ser Asn Glu Glu Arg Asn Leu Leu Ser Val Ala
35 40 45

Tyr Lys Asn Val Val Gly Ala Arg Arg Ser Ser Trp Arg Val Ile Ser
50 55 60

P48611GB seq 1st.ST25

Ser Ile Glu Gln Lys Thr Ser Ala Asp Gly Asn Glu Lys Lys Ile Glu
65 70 75 80

Met Val Arg Ala Tyr Arg Glu Lys Ile Glu Lys Glu Leu Glu Ala Val
85 90 95

Cys Gln Asp Val Leu Ser Leu Leu Asp Asn Tyr Leu Ile Lys Asn Cys
100 105 110

Ser Glu Thr Gln Tyr Glu Ser Lys Val Phe Tyr Leu Lys Met Lys Gly
115 120 125

Asp Tyr Tyr Arg Tyr Leu Ala Glu Val Ala Thr Gly Glu Lys Arg Ala
130 135 140

Thr Val Val Glu Ser Ser Glu Lys Ala Tyr Ser Glu Ala His Glu Ile
145 150 155 160

Ser Lys Glu His Met Gln Pro Thr His Pro Ile Arg Leu Gly Leu Ala
165 170 175

Leu Asn Tyr Ser Val Phe Tyr Tyr Glu Ile Gln Asn Ala Pro Glu Gln
180 185 190

Ala Cys His Leu Ala Lys Thr Ala Phe Asp Asp Ala Ile Ala Glu Leu
195 200 205

Asp Thr Leu Asn Glu Asp Ser Tyr Lys Asp Ser Thr Leu Ile Met Gln
210 215 220

Leu Leu Arg Asp Asn Leu Thr Leu Trp Thr Ser Asp Gln Gln Asp Asp
225 230 235 240

Asp Gly Gly Glu Gly Asn Asn
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<210> 9
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<213> Homo sapiens

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Met Glu Lys Thr Glu Leu Ile Gln Lys Ala Lys Leu Ala Glu Gln Ala
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Glu Arg Tyr Asp Asp Met Ala Thr Cys Met Lys Ala Val Thr Glu Gln
20 25 30

Gly Ala Glu Leu Ser Asn Glu Glu Arg Asn Leu Leu Ser Val Ala Tyr
35 40 45

Lys Asn Val Val Gly Gly Arg Arg Ser Ala Trp Arg Val Ile Ser Ser
Page 9

P48611GB seq 1st.ST25

50

55

60

Ile Glu Gln Lys Thr Asp Thr Ser Asp Lys Lys Leu Gln Leu Ile Lys
65 70 75 80

Asp Tyr Arg Glu Lys Val Glu Ser Glu Leu Arg Ser Ile Cys Thr Thr
85 90 95

Val Leu Glu Leu Leu Asp Lys Tyr Leu Ile Ala Asn Ala Thr Asn Pro
100 105 110

Glu Ser Lys Val Phe Tyr Leu Lys Met Lys Gly Asp Tyr Phe Arg Tyr
115 120 125

Leu Ala Glu Val Ala Cys Gly Asp Asp Arg Lys Gln Thr Ile Asp Asn
130 135 140

Ser Gln Gly Ala Tyr Gln Glu Ala Phe Asp Ile Ser Lys Lys Glu Met
145 150 155 160

Gln Pro Thr His Pro Ile Arg Leu Gly Leu Ala Leu Asn Phe Ser Val
165 170 175

Phe Tyr Tyr Glu Ile Leu Asn Asn Pro Glu Leu Ala Cys Thr Leu Ala
180 185 190

Lys Thr Ala Phe Asp Glu Ala Ile Ala Glu Leu Asp Thr Leu Asn Glu
195 200 205

Asp Ser Tyr Lys Asp Ser Thr Leu Ile Met Gln Leu Leu Arg Asp Asn
210 215 220

Leu Thr Leu Trp Thr Ser Asp Ser Ala Gly Glu Glu Cys Asp Ala Ala
225 230 235 240

Glu Gly Ala Glu Asn
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<213> Mus musculus

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

P48611GB seq 1st.ST25

Lys Asn Val Val Gly Gly Arg Arg Ser Ala Trp Arg Val Ile Ser Ser
50 55 60

Ile Glu Gln Lys Thr Asp Thr Ser Asp Lys Lys Leu Gln Leu Ile Lys
65 70 75 80

Asp Tyr Arg Glu Lys Val Glu Ser Glu Leu Arg Ser Ile Cys Thr Thr
85 90 95

Val Leu Glu Leu Leu Asp Lys Tyr Leu Ile Ala Asn Ala Thr Asn Pro
100 105 110

Glu Ser Lys Val Phe Tyr Leu Lys Met Lys Gly Asp Tyr Phe Arg Tyr
115 120 125

Leu Ala Glu Val Ala Cys Gly Asp Asp Arg Lys Gln Thr Ile Glu Asn
130 135 140

Ser Gln Gly Ala Tyr Gln Glu Ala Phe Asp Ile Ser Lys Lys Glu Met
145 150 155 160

Gln Pro Thr His Pro Ile Arg Leu Gly Leu Ala Leu Asn Phe Ser Val
165 170 175

Phe Tyr Tyr Glu Ile Leu Asn Asn Pro Glu Leu Ala Cys Thr Leu Ala
180 185 190

Lys Thr Ala Phe Asp Glu Ala Ile Ala Glu Leu Asp Thr Leu Asn Glu
195 200 205

Asp Ser Tyr Lys Asp Ser Thr Leu Ile Met Gln Leu Leu Arg Asp Asn
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Leu Thr Leu Trp Thr Ser Asp Ser Ala Gly Glu Glu Cys Asp Ala Ala
225 230 235 240

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

P48611GB seq 1st.ST25

Gly Ala Glu Leu Ser Asn Glu Glu Arg Asn Leu Leu Ser Val Ala Tyr
35 40 45

Lys Asn Val Val Gly Ala Arg Arg Ser Ser Trp Arg Val Val Ser Ser
50 55 60

Ile Glu Gln Lys Thr Glu Gly Ala Glu Lys Lys Gln Gln Met Ala Arg
65 70 75 80

Glu Tyr Arg Glu Lys Ile Glu Thr Glu Leu Arg Asp Ile Cys Asn Asp
85 90 95

Val Leu Ser Leu Leu Glu Lys Phe Leu Ile Pro Asn Ala Ser Gln Ala
100 105 110

Glu Ser Lys Val Phe Tyr Leu Lys Met Lys Gly Asp Tyr Tyr Arg Tyr
115 120 125

Leu Ala Glu Val Ala Ala Gly Asp Asp Lys Lys Gly Ile Val Asp Gln
130 135 140

Ser Gln Gln Ala Tyr Gln Glu Ala Phe Glu Ile Ser Lys Lys Glu Met
145 150 155 160

Gln Pro Thr His Pro Ile Arg Leu Gly Leu Ala Leu Asn Phe Ser Val
165 170 175

Phe Tyr Tyr Glu Ile Leu Asn Ser Pro Glu Lys Ala Cys Ser Leu Ala
180 185 190

Lys Thr Ala Phe Asp Glu Ala Ile Ala Glu Leu Asp Thr Leu Ser Glu
195 200 205

Glu Ser Tyr Lys Asp Ser Thr Leu Ile Met Gln Leu Leu Arg Asp Asn
210 215 220

Leu Thr Leu Trp Thr Ser Asp Thr Gln Gly Asp Glu Ala Glu Ala Gly
225 230 235 240

Glu Gly Gly Glu Asn
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P48611GB seq 1st.ST25

Glu Arg Tyr Asp Asp Met Ala Ala Cys Met Lys Ser Val Thr Glu Gln
20 25 30

Gly Ala Glu Leu Ser Asn Glu Glu Arg Asn Leu Leu Ser Val Ala Tyr
35 40 45

Lys Asn Val Val Gly Ala Arg Arg Ser Ser Trp Arg Val Val Ser Ser
50 55 60

Ile Glu Gln Lys Thr Glu Gly Ala Glu Lys Lys Gln Gln Met Ala Arg
65 70 75 80

Glu Tyr Arg Glu Lys Ile Glu Thr Glu Leu Arg Asp Ile Cys Asn Asp
85 90 95

Val Leu Ser Leu Leu Glu Lys Phe Leu Ile Pro Asn Ala Ser Gln Pro
100 105 110

Glu Ser Lys Val Phe Tyr Leu Lys Met Lys Gly Asp Tyr Tyr Arg Tyr
115 120 125

Leu Ala Glu Val Ala Ala Gly Asp Asp Lys Lys Gly Ile Val Asp Gln
130 135 140

Ser Gln Gln Ala Tyr Gln Glu Ala Phe Glu Ile Ser Lys Lys Glu Met
145 150 155 160

Gln Pro Thr His Pro Ile Arg Leu Gly Leu Ala Leu Asn Phe Ser Val
165 170 175

Phe Tyr Tyr Glu Ile Leu Asn Ser Pro Glu Lys Ala Cys Ser Leu Ala
180 185 190

Lys Thr Ala Phe Asp Glu Ala Ile Ala Glu Leu Asp Thr Leu Ser Glu
195 200 205

Glu Ser Tyr Lys Asp Ser Thr Leu Ile Met Gln Leu Leu Arg Asp Asn
210 215 220

Leu Thr Leu Trp Thr Ser Asp Thr Gln Gly Asp Glu Ala Glu Ala Gly
225 230 235 240

Glu Gly Gly Glu Asn
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<212> PRT
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Met Glu Arg Ala Ser Leu Ile Gln Lys Ala Lys Leu Ala Glu Gln Ala

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Glu Arg Tyr Glu Asp Met Ala Ala Phe Met Lys Gly Ala Val Glu Lys
20 25 30

Gly Glu Glu Leu Ser Cys Glu Glu Arg Asn Leu Leu Ser Val Ala Tyr
35 40 45

Lys Asn Val Val Gly Gly Gln Arg Ala Ala Trp Arg Val Leu Ser Ser
50 55 60

Ile Glu Gln Lys Ser Asn Glu Glu Gly Ser Glu Glu Lys Gly Pro Glu
65 70 75 80

Val Arg Glu Tyr Arg Glu Lys Val Glu Thr Glu Leu Gln Gly Val Cys
85 90 95

Asp Thr Val Leu Gly Leu Leu Asp Ser His Leu Ile Lys Glu Ala Gly
100 105 110

Asp Ala Glu Ser Arg Val Phe Tyr Leu Lys Met Lys Gly Asp Tyr Tyr
115 120 125

Arg Tyr Leu Ala Glu Val Ala Thr Gly Asp Asp Lys Lys Arg Ile Ile
130 135 140

Asp Ser Ala Arg Ser Ala Tyr Gln Glu Ala Met Asp Ile Ser Lys Lys
145 150 155 160

Glu Met Pro Pro Thr Asn Pro Ile Arg Leu Gly Leu Ala Leu Asn Phe
165 170 175

Ser Val Phe His Tyr Glu Ile Ala Asn Ser Pro Glu Glu Ala Ile Ser
180 185 190

Leu Ala Lys Thr Thr Phe Asp Glu Ala Met Ala Asp Leu His Thr Leu
195 200 205

Ser Glu Asp Ser Tyr Lys Asp Ser Thr Leu Ile Met Gln Leu Leu Arg
210 215 220

Asp Asn Leu Thr Leu Trp Thr Ala Asp Asn Ala Gly Glu Glu Gly Gly
225 230 235 240

Glu Ala Pro Gln Glu Pro Gln Ser
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P48611GB seq 1st.ST25

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Met Glu Arg Ala Ser Leu Ile Gln Lys Ala Lys Leu Ala Glu Gln Ala
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Glu Arg Tyr Glu Asp Met Ala Ala Phe Met Lys Ser Ala Val Glu Lys
20 25 30

Gly Glu Glu Leu Ser Cys Glu Glu Arg Asn Leu Leu Ser Val Ala Tyr
35 40 45

Lys Asn Val Val Gly Gly Gln Arg Ala Ala Trp Arg Val Leu Ser Ser
50 55 60

Ile Glu Gln Lys Ser Asn Glu Glu Gly Ser Glu Glu Lys Gly Pro Glu
65 70 75 80

Val Lys Glu Tyr Arg Glu Lys Val Glu Thr Glu Leu Arg Gly Val Cys
85 90 95

Asp Thr Val Leu Gly Leu Leu Asp Ser His Leu Ile Lys Gly Ala Gly
100 105 110

Asp Ala Glu Ser Arg Val Phe Tyr Leu Lys Met Lys Gly Asp Tyr Tyr
115 120 125

Arg Tyr Leu Ala Glu Val Ala Thr Gly Asp Asp Lys Lys Arg Ile Ile
130 135 140

Asp Ser Ala Arg Ser Ala Tyr Gln Glu Ala Met Asp Ile Ser Lys Lys
145 150 155 160

Glu Met Pro Pro Thr Asn Pro Ile Arg Leu Gly Leu Ala Leu Asn Phe
165 170 175

Ser Val Phe His Tyr Glu Ile Ala Asn Ser Pro Glu Glu Ala Ile Ser
180 185 190

Leu Ala Lys Thr Thr Phe Asp Glu Ala Met Ala Asp Leu His Thr Leu
195 200 205

Ser Glu Asp Ser Tyr Lys Asp Ser Thr Leu Ile Met Gln Leu Leu Arg
210 215 220

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

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Ile Leu Ser Ser Asp Asp Ser Leu Arg
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His Ser Asp Ser Ile Ser Ser Leu Ala Ser Glu Arg
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Lys Lys Lys Ser Asn Ser Ile Ser Val Gly Glu Phe Tyr Arg Asp Ala
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Val Leu Gln Arg Cys Ser Pro Asn Leu Gln Arg His Ser Asn Ser Leu
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Gly Pro Ile Phe Asp
35

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<400> 32

Lys Arg Lys Ser Asn Ser Ile Ser Val Gly Glu Val Tyr Arg Asp Leu
1 5 10 15

Ala Leu Gln Arg Tyr Ser Pro Asn Ala Gln Arg His Ser Asn Ser Leu
20 25 30

Gly Pro Val Phe Asp
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<210> 33
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<213> Rattus norvegicus

<400> 33

Lys Lys Lys Ser Asn Ser Val Ser Val Gly Glu Val Tyr Arg Asp Leu
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Ala Leu Gln Arg Cys Ser Pro Asn Ala Gln Arg His Ser Ser Ser Leu
20 25 30

Gly Pro Val Phe Asp
35

<210> 34
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<400> 34

P48611GB seq 1st.ST25

Lys Thr Lys Ser Asn Ser Ile Ser Val Gly Glu Phe Tyr Gln Asp Pro
1 5 10 15

Ala Leu Gln Arg Cys Ser Pro Asn Leu Gln Arg His Ser Ser Ser Leu
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Gly Pro Ile Phe Asp
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<210> 35
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<400> 35

Lys Arg Lys Ser Asn Ser Ile Ser Val Gly Glu Phe Tyr His Asp Arg
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Ala Leu Gln Arg Cys Ser Pro Asn Leu Gln Arg His Ser Asn Ser Leu
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Gly Pro Ile Phe Asp
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<400> 36

Lys Lys Lys Ser Asn Ser Ile Ala Val Ala Asp Leu His Cys Arg Glu
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Val Gly Pro Gly Ser Asp
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Val Lys Lys Lys Ser Asn Ser Ile Ser Val Gly Glu Phe
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<210> 38
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| Leu | Gln | Arg | His | Ser | Asn | Ser | Leu | Gly | Pro | Ile | Phe | Asp |
| 1 | | | | 5 | | | | 10 | | | | |