

WAY10252sequencelistingST25
SEQUENCE LISTING

<110> Wayne State University
Henry Ford Health System

<120> METHODS, SYSTEMS AND COMPOSITIONS RELATING TO CELL CONVERSION VIA
PROTEIN-INDUCED IN-VIVO CELL REPROGRAMMING

<130> WAY-10252/47

<150> 61/895,562
<151> 2013-10-25

<160> 127

<170> PatentIn version 3.5

<210> 1
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<212> PRT
<213> Homo sapiens

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35 40 45

Met Val Trp Ser Arg Gly Gln Arg Arg Lys Met Ala Gln Glu Asn Pro
50 55 60

Lys Met His Asn Ser Glu Ile Ser Lys Arg Leu Gly Ala Glu Trp Lys
65 70 75 80

Leu Leu Ser Glu Thr Glu Lys Arg Pro Phe Ile Asp Glu Ala Lys Arg
85 90 95

Leu Arg Ala Leu His Met Lys Glu His Pro Asp Tyr Lys Tyr Arg Pro
100 105 110

Arg Arg Lys Thr Lys Thr Leu Met Lys Lys Asp Lys Tyr Thr Leu Pro
115 120 125

Gly Gly Leu Leu Ala Pro Gly Gly Asn Ser Met Ala Ser Gly Val Gly
130 135 140

Val Gly Ala Gly Leu Gly Ala Gly Val Asn Gln Arg Met Asp Ser Tyr
145 150 155 160

Ala His Met Asn Gly Trp Ser Asn Gly Ser Tyr Ser Met Met Gln Asp
165 170 175

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Gln Leu Gly Tyr Pro Gln His Pro Gly Leu Asn Ala His Gly Ala Ala
180 185 190

Gln Met Gln Pro Met His Arg Tyr Asp Val Ser Ala Leu Gln Tyr Asn
195 200 205

Ser Met Thr Ser Ser Gln Thr Tyr Met Asn Gly Ser Pro Thr Tyr Ser
210 215 220

Met Ser Tyr Ser Gln Gln Gly Thr Pro Gly Met Ala Leu Gly Ser Met
225 230 235 240

Gly Ser Val Val Lys Ser Glu Ala Ser Ser Ser Pro Pro Val Val Thr
245 250 255

Ser Ser Ser His Ser Arg Ala Pro Cys Gln Ala Gly Asp Leu Arg Asp
260 265 270

Met Ile Ser Met Tyr Leu Pro Gly Ala Glu Val Pro Glu Pro Ala Ala
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Pro Ser Arg Leu His Met Ser Gln His Tyr Gln Ser Gly Pro Val Pro
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Gly Thr Ala Ile Asn Gly Thr Leu Pro Leu Ser His Met
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Arg Thr Trp Leu Ser Phe Gln Gly Pro Pro Gly Gly Pro Gly Ile Gly
35 40 45

Pro Gly Val Gly Pro Gly Ser Glu Val Trp Gly Ile Pro Pro Cys Pro
50 55 60

Pro Pro Tyr Glu Phe Cys Gly Gly Met Ala Tyr Cys Gly Pro Gln Val
65 70 75 80

Gly Val Gly Leu Val Pro Gln Gly Gly Leu Glu Thr Ser Gln Pro Glu
85 90 95

Gly Glu Ala Gly Val Gly Val Glu Ser Asn Ser Asp Gly Ala Ser Pro
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100

105

110

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

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Asn Ser Pro Ala Ser Asp Leu Glu Ala Ala Leu Glu Ala Ala Gly Glu
260 265 270

Gly Leu Asn Val Ile Gln Gln Thr Thr Arg Tyr Phe Ser Thr Pro Gln
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Val
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35 40 45

Val Arg Met Gly Phe Gly Phe Leu Ser Met Thr Ala Arg Ala Gly Val
50 55 60

Ala Leu Asp Pro Pro Val Asp Val Phe Val His Gln Ser Lys Leu His
65 70 75 80

Met Glu Gly Phe Arg Ser Leu Lys Glu Gly Glu Ala Val Glu Phe Thr
85 90 95

Phe Lys Lys Ser Ala Lys Gly Leu Glu Ser Ile Arg Val Thr Gly Pro
100 105 110

Gly Gly Val Phe Cys Ile Gly Ser Glu Arg Arg Pro Lys Gly Lys Ser
115 120 125

Met Gln Lys Arg Arg Ser Lys Gly Asp Arg Cys Tyr Asn Cys Gly Gly
130 135 140

Leu Asp His His Ala Lys Glu Cys Lys Leu Pro Pro Gln Pro Lys Lys
145 150 155 160

Cys His Phe Cys Gln Ser Ile Ser His Met Val Ala Ser Cys Pro Leu
165 170 175

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

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Thr Leu Arg Gln Ala Gly Ala Pro Asn Asn Arg Trp Arg Glu Glu Leu
35 40 45

Ser His Met Lys Arg Leu Pro Pro Val Leu Pro Gly Arg Pro Tyr Asp
50 55 60

Leu Ala Ala Ala Thr Val Ala Thr Asp Leu Glu Ser Gly Gly Ala Gly
65 70 75 80

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

Glu Glu Phe Asn Asp Leu Leu Asp Leu Asp Phe Ile Leu Ser Asn Ser
100 105 110

Leu Thr His Pro Pro Glu Ser Val Ala Ala Thr Val Ser Ser Ser Ala
115 120 125

Ser Ala Ser Ser Ser Ser Ser Pro Ser Ser Ser Gly Pro Ala Ser Ala
130 135 140

Pro Ser Thr Cys Ser Phe Thr Tyr Pro Ile Arg Ala Gly Asn Asp Pro
145 150 155 160

Gly Val Ala Pro Gly Gly Thr Gly Gly Gly Leu Leu Tyr Gly Arg Glu
165 170 175

Ser Ala Pro Pro Pro Thr Ala Pro Phe Asn Leu Ala Asp Ile Asn Asp
180 185 190

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Val Ser Pro Ser Gly Gly Phe Val Ala Glu Leu Leu Arg Pro Glu Leu
195 200 205

Asp Pro Val Tyr Ile Pro Pro Gln Gln Pro Gln Pro Pro Gly Gly Gly
210 215 220

Leu Met Gly Lys Phe Val Leu Lys Ala Ser Leu Ser Ala Pro Gly Ser
225 230 235 240

Glu Tyr Gly Ser Pro Ser Val Ile Ser Val Ser Lys Gly Ser Pro Asp
245 250 255

Gly Ser His Pro Val Val Val Ala Pro Tyr Asn Gly Gly Pro Pro Arg
260 265 270

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

Gly Ala Gly Pro Pro Leu Ser Asn Gly His Arg Pro Ala Ala His Asp
290 295 300

Phe Pro Leu Gly Arg Gln Leu Pro Ser Arg Thr Thr Pro Thr Leu Gly
305 310 315 320

Leu Glu Glu Val Leu Ser Ser Arg Asp Cys His Pro Ala Leu Pro Leu
325 330 335

Pro Pro Gly Phe His Pro His Pro Gly Pro Asn Tyr Pro Ser Phe Leu
340 345 350

Pro Asp Gln Met Gln Pro Gln Val Pro Pro Leu His Tyr Gln Glu Leu
355 360 365

Met Pro Pro Gly Ser Cys Met Pro Glu Glu Pro Lys Pro Lys Arg Gly
370 375 380

Arg Arg Ser Trp Pro Arg Lys Arg Thr Ala Thr His Thr Cys Asp Tyr
385 390 395 400

Ala Gly Cys Gly Lys Thr Tyr Thr Lys Ser Ser His Leu Lys Ala His
405 410 415

Leu Arg Thr His Thr Gly Glu Lys Pro Tyr His Cys Asp Trp Asp Gly
420 425 430

Cys Gly Trp Lys Phe Ala Arg Ser Asp Glu Leu Thr Arg His Tyr Arg
435 440 445

Lys His Thr Gly His Arg Pro Phe Gln Cys Gln Lys Cys Asp Arg Ala
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Phe Ser Arg Ser Asp His Leu Ala Leu His Met Lys Arg His Phe
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35 40 45

Gln Gln Gln Gln Ser Glu Leu Gln Pro Pro Ala Pro Ser Glu Asp Ile
50 55 60

Trp Lys Lys Phe Glu Leu Leu Pro Thr Pro Pro Leu Ser Pro Ser Arg
65 70 75 80

Arg Ser Gly Leu Cys Ser Pro Ser Tyr Val Ala Val Thr Pro Phe Ser
85 90 95

Leu Arg Gly Asp Asn Asp Gly Gly Gly Ser Phe Ser Thr Ala Asp
100 105 110

Gln Leu Glu Met Val Thr Glu Leu Leu Gly Gly Asp Met Val Asn Gln
115 120 125

Ser Phe Ile Cys Asp Pro Asp Asp Glu Thr Phe Ile Lys Asn Ile Ile
130 135 140

Ile Gln Asp Cys Met Trp Ser Gly Phe Ser Ala Ala Ala Lys Leu Val
145 150 155 160

Ser Glu Lys Leu Ala Ser Tyr Gln Ala Ala Arg Lys Asp Ser Gly Ser
165 170 175

Pro Asn Pro Ala Arg Gly His Ser Val Cys Ser Thr Ser Ser Leu Tyr
180 185 190

Leu Gln Asp Leu Ser Ala Ala Ala Ser Glu Cys Ile Asp Pro Ser Val
195 200 205

Val Phe Pro Tyr Pro Leu Asn Asp Ser Ser Ser Pro Lys Ser Cys Ala
210 215 220

Ser Gln Asp Ser Ser Ala Phe Ser Pro Ser Ser Asp Ser Leu Leu Ser
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Asp	Glu	Glu 275	Glu	Ile	Asp	Val	Val 280	Ser	Val	Glu	Lys	Arg 285	Gln	Ala	Pro			
Gly	Lys 290	Arg	Ser	Glu	Ser	Gly 295	Ser	Pro	Ser	Ala	Gly 300	Gly	His	Ser	Lys			
Pro 305	Pro	His	Ser	Pro	Leu 310	Val	Leu	Lys	Arg	Cys 315	His	Val	Ser	Thr	His 320			
Gln	His	Asn	Tyr	Ala 325	Ala	Pro	Pro	Ser	Thr 330	Arg	Lys	Asp	Tyr	Pro 335	Ala			
Ala	Lys	Arg	Val 340	Lys	Leu	Asp	Ser	Val 345	Arg	Val	Leu	Arg	Gln 350	Ile	Ser			
Asn	Asn	Arg 355	Lys	Cys	Thr	Ser	Pro 360	Arg	Ser	Ser	Asp	Thr 365	Glu	Glu	Asn			
Val	Lys 370	Arg	Arg	Thr	His	Asn 375	Val	Leu	Glu	Arg	Gln 380	Arg	Arg	Asn	Glu			
Leu 385	Lys	Arg	Ser	Phe	Phe 390	Ala	Leu	Arg	Asp	Gln 395	Ile	Pro	Glu	Leu	Glu 400			
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Tyr	Ile	Leu	Ser 420	Val	Gln	Ala	Glu	Glu 425	Gln	Lys	Leu	Ile	Ser 430	Glu	Glu			
Asp	Leu	Leu 435	Arg	Lys	Arg	Arg	Glu 440	Gln	Leu	Lys	His	Lys 445	Leu	Glu	Gln			
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Ala Ser Ser Pro Val Tyr Val Pro Thr Pro Arg Val Pro Ser Ser Val
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Leu Gly Leu Ser Tyr Leu Gln Gly Gly Gly Ala Gly Ser Ala Ser Gly
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Gly Ala Ser Gly Gly Ser Ser Gly Gly Ala Ala Ser Gly Ala Gly Pro
65 70 75 80

Gly Thr Gln Gln Gly Ser Pro Gly Trp Ser Gln Ala Gly Ala Asp Gly
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Ala Ala Tyr Thr Pro Pro Pro Val Ser Pro Arg Phe Ser Phe Pro Gly
100 105 110

Thr Thr Gly Ser Leu Ala Ala Ala Ala Ala Ala Ala Ala Arg Glu
115 120 125

Ala Ala Ala Tyr Ser Ser Gly Gly Gly Ala Ala Gly Ala Gly Leu Ala
130 135 140

Gly Arg Glu Gln Tyr Gly Arg Ala Gly Phe Ala Gly Ser Tyr Ser Ser
145 150 155 160

Pro Tyr Pro Ala Tyr Met Ala Asp Val Gly Ala Ser Trp Ala Ala Ala
165 170 175

Ala Ala Ala Ser Ala Gly Pro Phe Asp Ser Pro Val Leu His Ser Leu
180 185 190

Pro Gly Arg Ala Asn Pro Ala Ala Arg His Pro Asn Leu Asp Met Phe
195 200 205

Asp Asp Phe Ser Glu Gly Arg Glu Cys Val Asn Cys Gly Ala Met Ser
210 215 220

Thr Pro Leu Trp Arg Arg Asp Gly Thr Gly His Tyr Leu Cys Asn Ala
225 230 235 240

Cys Gly Leu Tyr His Lys Met Asn Gly Ile Asn Arg Pro Leu Ile Lys
245 250 255

Pro Gln Arg Arg Leu Ser Ala Ser Arg Arg Val Gly Leu Ser Cys Ala
260 265 270

Asn Cys Gln Thr Thr Thr Thr Thr Leu Trp Arg Arg Asn Ala Glu Gly
275 280 285

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Glu Pro Val Cys Asn Ala Cys Gly Leu Tyr Met Lys Leu His Gly Val
 290 295 300
 Pro Arg Pro Leu Ala Met Arg Lys Glu Gly Ile Gln Thr Arg Lys Arg
 305 310 315 320
 Lys Pro Lys Asn Leu Asn Lys Ser Lys Thr Pro Ala Ala Pro Ser Gly
 325 330 335
 Ser Glu Ser Leu Pro Pro Ala Ser Gly Ala Ser Ser Asn Ser Ser Asn
 340 345 350
 Ala Thr Thr Ser Ser Ser Glu Glu Met Arg Pro Ile Lys Thr Glu Pro
 355 360 365
 Gly Leu Ser Ser His Tyr Gly His Ser Ser Ser Val Ser Gln Thr Phe
 370 375 380
 Ser Val Ser Ala Met Ser Gly His Gly Pro Ser Ile His Pro Val Leu
 385 390 395 400
 Ser Ala Leu Lys Leu Ser Pro Gln Gly Tyr Ala Ser Pro Val Ser Gln
 405 410 415
 Ser Pro Gln Thr Ser Ser Lys Gln Asp Ser Trp Asn Ser Leu Val Leu
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 35 40 45
 Gly His Pro Glu Met Ser Pro Pro Asp Tyr Ser Met Ala Leu Ser Tyr
 50 55 60
 Ser Pro Glu Tyr Ala Ser Gly Ala Ala Gly Leu Asp His Ser His Tyr
 65 70 75 80

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

Pro Val Lys Arg Arg Gly Thr Ala Asn Arg Lys Glu Arg Arg Arg Thr
100 105 110

Gln Ser Ile Asn Ser Ala Phe Ala Glu Leu Arg Glu Cys Ile Pro Asn
115 120 125

Val Pro Ala Asp Thr Lys Leu Ser Lys Ile Lys Thr Leu Arg Leu Ala
130 135 140

Thr Ser Tyr Ile Ala Tyr Leu Met Asp Leu Leu Ala Lys Asp Asp Gln
145 150 155 160

Asn Gly Glu Ala Glu Ala Phe Lys Ala Glu Ile Lys Lys Thr Asp Val
165 170 175

Lys Glu Glu Lys Arg Lys Lys Glu Leu Asn Glu Ile Leu Lys Ser Thr
180 185 190

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Tyr Glu Leu Ser Val Leu Cys Asp Cys Glu Ile Ala Leu Ile Ile Phe
35 40 45

Asn Ser Thr Asn Lys Leu Phe Gln Tyr Ala Ser Thr Asp Met Asp Lys
50 55 60

Val Leu Leu Lys Tyr Thr Glu Tyr Asn Glu Pro His Glu Ser Arg Thr
65 70 75 80

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

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Asp Ser Pro Asp 100 Pro Asp Ala Asp 105 Ser Val Gly His Ser 110 Pro Glu
 Ser Glu Asp 115 Lys Tyr Arg Lys Ile 120 Asn Glu Asp Ile Asp 125 Leu Met Ile
 Ser Arg 130 Gln Arg Leu Cys Ala 135 Val Pro Pro Pro Asn 140 Phe Glu Met Pro
 Val 145 Ser Ile Pro Val 150 Ser His Asn Ser 155 Leu Val Tyr Ser Asn 160 Pro
 Val Ser Ser Leu Gly 165 Asn Pro Asn Leu 170 Leu Pro Leu Ala His Pro 175 Ser
 Leu Gln Arg Asn 180 Ser Met Ser Pro Gly 185 Val Thr His Arg Pro 190 Pro Ser
 Ala Gly Asn 195 Thr Gly Gly Leu 200 Met Gly Gly Asp Leu 205 Thr Ser Gly Ala
 Gly Thr 210 Ser Ala Gly Asn 215 Tyr Gly Asn Pro Arg 220 Asn Ser Pro Gly
 Leu 225 Leu Val Ser Pro Gly 230 Asn Leu Asn Lys Asn 235 Met Gln Ala Lys Ser 240
 Pro Pro Pro Met 245 Asn Leu Gly Met Asn 250 Asn Arg Lys Pro Asp 255 Leu Arg
 Val Leu Ile 260 Pro Pro Gly Ser Lys Asn 265 Thr Met Pro Ser Val 270 Ser Glu
 Asp Val 275 Asp Leu Leu Leu Asn 280 Gln Arg Ile Asn Asn Ser 285 Gln Ser Ala
 Gln Ser 290 Leu Ala Thr Pro Val 295 Val Ser Val Ala Thr 300 Pro Thr Leu Pro
 Gly 305 Gln Gly Met Gly 310 Gly Tyr Pro Ser Ala Ile 315 Ser Thr Thr Tyr Gly 320
 Thr Glu Tyr Ser 325 Leu Ser Ser Ala Asp 330 Leu Ser Ser Leu Ser Gly 335 Phe
 Asn Thr Ala 340 Ser Ala Leu His Leu 345 Gly Ser Val Thr Gly Trp 350 Gln Gln
 Gln His 355 Leu His Asn Met Pro 360 Pro Ser Ala Leu Ser 365 Gln Leu Gly Ala

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Cys Thr Ser Thr His Leu Ser Gln Ser Ser Asn Leu Ser Leu Pro Ser
370 375 380

Thr Gln Ser Leu Asn Ile Lys Ser Glu Pro Val Ser Pro Pro Arg Asp
385 390 395 400

Arg Thr Thr Thr Pro Ser Arg Tyr Pro Gln His Thr Arg His Glu Ala
405 410 415

Gly Arg Ser Pro Val Asp Ser Leu Ser Ser Cys Ser Ser Ser Tyr Asp
420 425 430

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

Gln Gly Met Glu Gly Ile Lys Val Phe Leu His Glu Arg Glu Leu Trp
50 55 60

Leu Lys Phe His Glu Val Gly Thr Glu Met Ile Ile Thr Lys Ala Gly
65 70 75 80

Arg Arg Met Phe Pro Ser Tyr Lys Val Lys Val Thr Gly Leu Asn Pro
85 90 95

Lys Thr Lys Tyr Ile Leu Leu Met Asp Ile Val Pro Ala Asp Asp His
100 105 110

Arg Tyr Lys Phe Ala Asp Asn Lys Trp Ser Val Thr Gly Lys Ala Glu
115 120 125

Pro Ala Met Pro Gly Arg Leu Tyr Val His Pro Asp Ser Pro Ala Thr

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130

135

140

Gly Ala His Trp Met Arg Gln Leu Val Ser Phe Gln Lys Leu Lys Leu
 145 150 155 160

Thr Asn Asn His Leu Asp Pro Phe Gly His Ile Ile Leu Asn Ser Met
 165 170 175

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

Gly Phe Gly Ser Lys Asn Thr Ala Phe Cys Thr His Val Phe Pro Glu
 195 200 205

Thr Ala Phe Ile Ala Val Thr Ser Tyr Gln Asn His Lys Ile Thr Gln
 210 215 220

Leu Lys Ile Glu Asn Asn Pro Phe Ala Lys Gly Phe Arg Gly Ser Asp
 225 230 235 240

Asp Met Glu Leu His Arg Met Ser Arg Met Gln Ser Lys Glu Tyr Pro
 245 250 255

Val Val Pro Arg Ser Thr Val Arg Gln Lys Val Ala Ser Asn His Ser
 260 265 270

Pro Phe Ser Ser Glu Ser Arg Ala Leu Ser Thr Ser Ser Asn Leu Gly
 275 280 285

Ser Gln Tyr Gln Cys Glu Asn Gly Val Ser Gly Pro Ser Gln Asp Leu
 290 295 300

Leu Pro Pro Pro Asn Pro Tyr Pro Leu Pro Gln Glu His Ser Gln Ile
 305 310 315 320

Tyr His Cys Thr Lys Arg Lys Gly Glu Cys Asp His Pro Trp Ser Ile
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Thr Ser Ala Pro Pro Ser Pro Thr Arg Thr Arg Gly Asn Cys Ala Glu
35 40 45

Ala Glu Glu Gly Gly Cys Arg Gly Ala Pro Arg Lys Leu Arg Ala Arg
50 55 60

Arg Gly Gly Arg Ser Arg Pro Lys Ser Glu Leu Ala Leu Ser Lys Gln
65 70 75 80

Arg Arg Ser Arg Arg Lys Lys Ala Asn Asp Arg Glu Arg Asn Arg Met
85 90 95

His Asn Leu Asn Ser Ala Leu Asp Ala Leu Arg Gly Val Leu Pro Thr
100 105 110

Phe Pro Asp Asp Ala Lys Leu Thr Lys Ile Glu Thr Leu Arg Phe Ala
115 120 125

His Asn Tyr Ile Trp Ala Leu Thr Gln Thr Leu Arg Ile Ala Asp His
130 135 140

Ser Leu Tyr Ala Leu Glu Pro Pro Ala Pro His Cys Gly Glu Leu Gly
145 150 155 160

Ser Pro Gly Gly Ser Pro Gly Asp Trp Gly Ser Leu Tyr Ser Pro Val
165 170 175

Ser Gln Ala Gly Ser Leu Ser Pro Ala Ala Ser Leu Glu Glu Arg Pro
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Ala Phe Ser Asp Phe Leu
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20 25 30

Cys Asp Ile Ser Arg Ile Leu Lys Val Ser Asn Gly Cys Val Ser Lys
35 40 45

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Ile Leu Gly Arg Tyr Tyr Arg Thr Gly Val Leu Glu Pro Lys Gly Ile
50 55 60

Gly Gly Ser Lys Pro Arg Leu Ala Thr Pro Pro Val Val Ala Arg Ile
65 70 75 80

Ala Gln Leu Lys Gly Glu Cys Pro Ala Leu Phe Ala Trp Glu Ile Gln
85 90 95

Arg Gln Leu Cys Ala Glu Gly Leu Cys Thr Gln Asp Lys Thr Pro Ser
100 105 110

Val Ser Ser Ile Asn Arg Val Leu Arg Ala Leu Gln Glu Asp Gln Gly
115 120 125

Leu Pro Cys Thr Arg Leu Arg Ser Pro Ala Val Leu Ala Pro Ala Val
130 135 140

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

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

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

Gly Lys Leu Ala Thr Ala Thr Ser Leu Pro Glu Asp Thr Val Arg Val
195 200 205

Trp Phe Ser Asn Arg Arg Ala Lys Trp Arg Arg Gln Glu Lys Leu Lys
210 215 220

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

Val Ala Pro Gly Ile Ile Ser Ala Gln Gln Ser Pro Gly Ser Val Pro
245 250 255

Thr Ala Ala Leu Pro Ala Leu Glu Pro Leu Gly Pro Ser Cys Tyr Gln
260 265 270

Leu Cys Trp Ala Thr Ala Pro Glu Arg Cys Leu Ser Asp Thr Pro Pro
275 280 285

Lys Ala Cys Leu Lys Pro Cys Trp Gly His Leu Pro Pro Gln Pro Asn
290 295 300

Ser Leu Asp Ser Gly Leu Leu Cys Leu Pro Cys Pro Ser Ser His Cys
305 310 315 320

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Pro Leu Leu Tyr Gly Leu Glu
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Pro Ala Cys Leu Tyr Met Gly Arg Gln Pro Pro Pro Pro Pro Pro His
35 40 45

Pro Phe Pro Gly Ala Leu Gly Ala Leu Glu Gln Gly Ser Pro Pro Asp
50 55 60

Ile Ser Pro Tyr Glu Val Pro Pro Leu Ala Asp Asp Pro Ala Val Ala
65 70 75 80

His Leu His His His Leu Pro Ala Gln Leu Ala Leu Pro His Pro Pro
85 90 95

Ala Gly Pro Phe Pro Glu Gly Ala Glu Pro Gly Val Leu Glu Glu Pro
100 105 110

Asn Arg Val Gln Leu Pro Phe Pro Trp Met Lys Ser Thr Lys Ala His
115 120 125

Ala Trp Lys Gly Gln Trp Ala Gly Gly Ala Tyr Ala Ala Glu Pro Glu
130 135 140

Glu Asn Lys Arg Thr Arg Thr Ala Tyr Thr Arg Ala Gln Leu Leu Glu
145 150 155 160

Leu Glu Lys Glu Phe Leu Phe Asn Lys Tyr Ile Ser Arg Pro Arg Arg
165 170 175

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

Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys Glu Glu Asp Lys Lys
195 200 205

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Arg Gly Gly Gly Thr Ala Val Gly Gly Gly Gly Val Ala Glu Pro Glu
210 215 220

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

Pro Pro Pro Pro Gly Gly Ala Val Pro Pro Ala Ala Pro Val Ala Ala
245 250 255

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

Ser Val Ala Pro Arg Arg Pro Gln Glu Pro Arg
275 280

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<400> 14

Met Asn Leu Leu Asp Pro Phe Met Lys Met Thr Asp Glu Gln Glu Lys
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Gly Leu Ser Gly Ala Pro Ser Pro Thr Met Ser Glu Asp Ser Ala Gly
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Ser Pro Cys Pro Ser Gly Ser Gly Ser Asp Thr Glu Asn Thr Arg Pro
35 40 45

Gln Glu Asn Thr Phe Pro Lys Gly Glu Pro Asp Leu Lys Lys Glu Ser
50 55 60

Glu Glu Asp Lys Phe Pro Val Cys Ile Arg Glu Ala Val Ser Gln Val
65 70 75 80

Leu Lys Gly Tyr Asp Trp Thr Leu Val Pro Met Pro Val Arg Val Asn
85 90 95

Gly Ser Ser Lys Asn Lys Pro His Val Lys Arg Pro Met Asn Ala Phe
100 105 110

Met Val Trp Ala Gln Ala Ala Arg Arg Lys Leu Ala Asp Gln Tyr Pro
115 120 125

His Leu His Asn Ala Glu Leu Ser Lys Thr Leu Gly Lys Leu Trp Arg
130 135 140

Leu Leu Asn Glu Ser Glu Lys Arg Pro Phe Val Glu Glu Ala Glu Arg
145 150 155 160

Leu Arg Val Gln His Lys Lys Asp His Pro Asp Tyr Lys Tyr Gln Pro
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165

170

175

Arg Arg Arg Lys Ser Val Lys Asn Gly Gln Ala Glu Ala Glu Glu Ala
180 185 190

Thr Glu Gln Thr His Ile Ser Pro Asn Ala Ile Phe Lys Ala Leu Gln
195 200 205

Ala Asp Ser Pro His Ser Ser Ser Gly Met Ser Glu Val His Ser Pro
210 215 220

Gly Glu His Ser Gly Gln Ser Gln Gly Pro Pro Thr Pro Pro Thr Thr
225 230 235 240

Pro Lys Thr Asp Val Gln Pro Gly Lys Ala Asp Leu Lys Arg Glu Gly
245 250 255

Arg Pro Leu Pro Glu Gly Gly Arg Gln Pro Pro Ile Asp Phe Arg Asp
260 265 270

Val Asp Ile Gly Glu Leu Ser Ser Asp Val Ile Ser Asn Ile Glu Thr
275 280 285

Phe Asp Val Asn Glu Phe Asp Gln Tyr Leu Pro Pro Asn Gly His Pro
290 295 300

Gly Val Pro Ala Thr His Gly Gln Val Thr Tyr Thr Gly Ser Tyr Gly
305 310 315 320

Ile Ser Ser Thr Ala Ala Thr Pro Ala Ser Ala Gly His Val Trp Met
325 330 335

Ser Lys Gln Gln Ala Pro Pro Pro Pro Gln Gln Pro Pro Gln Ala
340 345 350

Pro Pro Ala Pro Gln Ala Pro Pro Gln Pro Gln Ala Ala Pro Pro Gln
355 360 365

Gln Pro Ala Ala Pro Pro Gln Gln Pro Gln Ala His Thr Leu Thr Thr
370 375 380

Leu Ser Ser Glu Pro Gly Gln Ser Gln Arg Thr His Ile Lys Thr Glu
385 390 395 400

Gln Leu Ser Pro Ser His Tyr Ser Glu Gln Gln Gln His Ser Pro Gln
405 410 415

Gln Ile Ala Tyr Ser Pro Phe Asn Leu Pro His Tyr Ser Pro Ser Tyr
420 425 430

Pro Pro Ile Thr Arg Ser Gln Tyr Asp Tyr Thr Asp His Gln Asn Ser

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435

440

445

Ser Ser Tyr Tyr Ser His Ala Ala Gly Gln Gly Thr Gly Leu Tyr Ser
 450 455 460

Thr Phe Thr Tyr Met Asn Pro Ala Gln Arg Pro Met Tyr Thr Pro Ile
 465 470 475 480

Ala Asp Thr Ser Gly Val Pro Ser Ile Pro Gln Thr His Ser Pro Gln
 485 490 495

His Trp Glu Gln Pro Val Tyr Thr Gln Leu Thr Arg Pro
 500 505

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 20 25 30

Leu Tyr Glu Ser Tyr Ser Met Pro Val Ile Pro Gln Pro Glu Ile Leu
 35 40 45

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

Phe His Ala Gln Leu Pro Asn Gly Leu Ser Pro Leu Ser Gly Tyr Ser
 65 70 75 80

Ser Ser Leu Gly Arg Val Ser Pro Pro Pro Pro Ser Asp Thr Ser Ser
 85 90 95

Lys Asp His Ser Gly Ser Glu Ser Pro Ile Ser Asp Glu Glu Glu Arg
 100 105 110

Leu Gln Ser Lys Leu Ser Asp Pro His Ala Ile Glu Ala Glu Lys Phe
 115 120 125

Gln Cys Asn Leu Cys Asn Lys Thr Tyr Ser Thr Phe Ser Gly Leu Ala
 130 135 140

Lys His Lys Gln Leu His Cys Asp Ala Gln Ser Arg Lys Ser Phe Ser
 145 150 155 160

Cys Lys Tyr Cys Asp Lys Glu Tyr Val Ser Leu Gly Ala Leu Lys Met
 165 170 175

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His Ile Arg Thr His Thr Leu Pro Cys Val Cys Lys Ile Cys Gly Lys
180 185 190

Ala Phe Ser Arg Pro Trp Leu Leu Gln Gly His Ile Arg Thr His Thr
195 200 205

Gly Glu Lys Pro Phe Ser Cys Pro His Cys Asn Arg Ala Phe Ala Asp
210 215 220

Arg Ser Asn Leu Arg Ala His Leu Gln Thr His Ser Asp Val Lys Lys
225 230 235 240

Tyr Gln Cys Lys Asn Cys Ser Lys Thr Phe Ser Arg Met Ser Leu Leu
245 250 255

His Lys His Glu Glu Ser Gly Cys Cys Val Ala His
260 265

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<212> PRT
<213> Homo sapiens

<400> 16

Met Ala Ala Glu Leu Ala Met Gly Ala Glu Leu Pro Ser Ser Pro Leu
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Ala Ile Glu Tyr Val Asn Asp Phe Asp Leu Met Lys Phe Glu Val Lys
20 25 30

Lys Glu Pro Pro Glu Ala Glu Arg Phe Cys His Arg Leu Pro Pro Gly
35 40 45

Ser Leu Ser Ser Thr Pro Leu Ser Thr Pro Cys Ser Ser Val Pro Ser
50 55 60

Ser Pro Ser Phe Cys Ala Pro Ser Pro Gly Thr Gly Gly Gly Gly Gly
65 70 75 80

Ala Gly Gly Gly Gly Gly Ser Ser Gln Ala Gly Gly Ala Pro Gly Pro
85 90 95

Pro Ser Gly Gly Pro Gly Ala Val Gly Gly Thr Ser Gly Lys Pro Ala
100 105 110

Leu Glu Asp Leu Tyr Trp Met Ser Gly Tyr Gln His His Leu Asn Pro
115 120 125

Glu Ala Leu Asn Leu Thr Pro Glu Asp Ala Val Glu Ala Leu Ile Gly
130 135 140

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Ser Gly His His Gly Ala His His Gly Ala His His Pro Ala Ala Ala
145 150 155 160

Ala Ala Tyr Glu Ala Phe Arg Gly Pro Gly Phe Ala Gly Gly Gly Gly
165 170 175

Ala Asp Asp Met Gly Ala Gly His His His Gly Ala His His Ala Ala
180 185 190

His His His His Ala Ala His His His His His His His His His
195 200 205

Gly Gly Ala Gly His Gly Gly Gly Ala Gly His His Val Arg Leu Glu
210 215 220

Glu Arg Phe Ser Asp Asp Gln Leu Val Ser Met Ser Val Arg Glu Leu
225 230 235 240

Asn Arg Gln Leu Arg Gly Phe Ser Lys Glu Glu Val Ile Arg Leu Lys
245 250 255

Gln Lys Arg Arg Thr Leu Lys Asn Arg Gly Tyr Ala Gln Ser Cys Arg
260 265 270

Phe Lys Arg Val Gln Gln Arg His Ile Leu Glu Ser Glu Lys Cys Gln
275 280 285

Leu Gln Ser Gln Val Glu Gln Leu Lys Leu Glu Val Gly Arg Leu Ala
290 295 300

Lys Glu Arg Asp Leu Tyr Lys Glu Lys Tyr Glu Lys Leu Ala Gly Arg
305 310 315 320

Gly Gly Pro Gly Ser Ala Gly Gly Ala Gly Phe Pro Arg Glu Pro Ser
325 330 335

Pro Pro Gln Ala Gly Pro Gly Gly Ala Lys Gly Thr Ala Asp Phe Phe
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Leu

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20 25 30

Glu His Glu Ala Asp Lys Lys Glu Asp Asp Leu Glu Ala Met Asn Ala
35 40 45

Glu Glu Asp Ser Leu Arg Asn Gly Gly Glu Glu Glu Asp Glu Asp Glu
50 55 60

Asp Leu Glu Glu Glu Glu Glu Glu Glu Glu Asp Asp Asp Gln Lys
65 70 75 80

Pro Lys Arg Arg Gly Pro Lys Lys Lys Lys Met Thr Lys Ala Arg Leu
85 90 95

Glu Arg Phe Lys Leu Arg Arg Met Lys Ala Asn Ala Arg Glu Arg Asn
100 105 110

Arg Met His Gly Leu Asn Ala Ala Leu Asp Asn Leu Arg Lys Val Val
115 120 125

Pro Cys Tyr Ser Lys Thr Gln Lys Leu Ser Lys Ile Glu Thr Leu Arg
130 135 140

Leu Ala Lys Asn Tyr Ile Trp Ala Leu Ser Glu Ile Leu Arg Ser Gly
145 150 155 160

Lys Ser Pro Asp Leu Val Ser Phe Val Gln Thr Leu Cys Lys Gly Leu
165 170 175

Ser Gln Pro Thr Thr Asn Leu Val Ala Gly Cys Leu Gln Leu Asn Pro
180 185 190

Arg Thr Phe Leu Pro Glu Gln Asn Gln Asp Met Pro Pro His Leu Pro
195 200 205

Thr Ala Ser Ala Ser Phe Pro Val His Pro Tyr Ser Tyr Gln Ser Pro
210 215 220

Gly Leu Pro Ser Pro Pro Tyr Gly Thr Met Asp Ser Ser His Val Phe
225 230 235 240

His Val Lys Pro Pro Pro His Ala Tyr Ser Ala Ala Leu Glu Pro Phe
245 250 255

Phe Glu Ser Pro Leu Thr Asp Cys Thr Ser Pro Ser Phe Asp Gly Pro
260 265 270

Leu Ser Pro Pro Leu Ser Ile Asn Gly Asn Phe Ser Phe Lys His Glu
275 280 285

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Pro Ser Ala Glu Phe Glu Lys Asn Tyr Ala Phe Thr Met His Tyr Pro
290 295 300

Ala Ala Thr Leu Ala Gly Ala Gln Ser His Gly Ser Ile Phe Ser Gly
305 310 315 320

Thr Ala Ala Pro Arg Cys Glu Ile Pro Ile Asp Asn Ile Met Ser Phe
325 330 335

Asp Ser His Ser His His Glu Arg Val Met Ser Ala Gln Leu Asn Ala
340 345 350

Ile Phe His Asp
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<400> 18

Met Asp Val Met Asp Gly Cys Gln Phe Ser Pro Ser Glu Tyr Phe Tyr
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35 40 45

Ser Asp Glu Asp Glu His Val Arg Ala Pro Thr Gly His His Gln Ala
50 55 60

Gly His Cys Leu Met Trp Ala Cys Lys Ala Cys Lys Arg Lys Ser Thr
65 70 75 80

Thr Met Asp Arg Arg Lys Ala Ala Thr Met Arg Glu Arg Arg Arg Leu
85 90 95

Lys Lys Val Asn Gln Ala Phe Glu Thr Leu Lys Arg Cys Thr Thr Thr
100 105 110

Asn Pro Asn Gln Arg Leu Pro Lys Val Glu Ile Leu Arg Asn Ala Ile
115 120 125

Arg Tyr Ile Glu Ser Leu Gln Glu Leu Leu Arg Glu Gln Val Glu Asn
130 135 140

Tyr Tyr Ser Leu Pro Gly Gln Ser Cys Ser Glu Pro Thr Ser Pro Thr
145 150 155 160

Ser Asn Cys Ser Asp Gly Met Pro Glu Cys Asn Ser Pro Val Trp Ser

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165

170

175

Arg Lys Ser Ser Thr Phe Asp Ser Ile Tyr Cys Pro Asp Val Ser Asn
180 185 190

Val Tyr Ala Thr Asp Lys Asn Ser Leu Ser Ser Leu Asp Cys Leu Ser
195 200 205

Asn Ile Val Asp Arg Ile Thr Ser Ser Glu Gln Pro Gly Leu Pro Leu
210 215 220

Gln Asp Leu Ala Ser Leu Ser Pro Val Ala Ser Thr Asp Ser Gln Pro
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Ala Thr Pro Gly Ala Ser Ser Ser Arg Leu Ile Tyr His Val Leu
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<400> 19

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35 40 45

Gly Ser Pro Pro Pro Phe Pro Thr Ser Glu Asp Phe Thr Pro Lys Glu
50 55 60

Gly Ser Pro Tyr Glu Ala Pro Val Tyr Ile Pro Glu Asp Ile Pro Ile
65 70 75 80

Pro Ala Asp Phe Glu Leu Arg Glu Ser Ser Ile Pro Gly Ala Gly Leu
85 90 95

Gly Val Trp Ala Lys Arg Lys Met Glu Ala Gly Glu Arg Leu Gly Pro
100 105 110

Cys Val Val Val Pro Arg Ala Ala Lys Glu Thr Asp Phe Gly Trp
115 120 125

Glu Gln Ile Leu Thr Asp Val Glu Val Ser Pro Gln Glu Gly Cys Ile
130 135 140

Thr Lys Ile Ser Glu Asp Leu Gly Ser Glu Lys Phe Cys Val Asp Ala
145 150 155 160

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Asn Gln Ala Gly Ala Gly Ser Trp Leu Lys Tyr Ile Arg Val Ala Cys
 165 170 175
 Ser Cys Asp Asp Gln Asn Leu Thr Met Cys Gln Ile Ser Glu Gln Val
 180 185 190
 Ile Tyr Tyr Lys Val Ile Lys Asp Ile Glu Pro Gly Glu Glu Leu Leu
 195 200 205
 Val His Val Lys Glu Gly Val Tyr Pro Leu Gly Thr Val Pro Pro Gly
 210 215 220
 Leu Asp Glu Glu Pro Thr Phe Arg Cys Asp Glu Cys Asp Glu Leu Phe
 225 230 235 240
 Gln Ser Lys Leu Asp Leu Arg Arg His Lys Lys Tyr Thr Cys Gly Ser
 245 250 255
 Val Gly Ala Ala Leu Tyr Glu Gly Leu Ala Glu Glu Leu Lys Pro Glu
 260 265 270
 Gly Leu Gly Gly Gly Ser Gly Gln Ala His Glu Cys Lys Asp Cys Glu
 275 280 285
 Arg Met Phe Pro Asn Lys Tyr Ser Leu Glu Gln His Met Val Ile His
 290 295 300
 Thr Glu Glu Arg Glu Tyr Lys Cys Asp Gln Cys Pro Lys Ala Phe Asn
 305 310 315 320
 Trp Lys Ser Asn Phe Ile Arg His Gln Met Ser His Asp Ser Gly Lys
 325 330 335
 Arg Phe Glu Cys Glu Asn Cys Val Lys Val Phe Thr Asp Pro Ser Asn
 340 345 350
 Leu Gln Arg His Ile Arg Ser Gln His Val Gly Ala Arg Ala His Ala
 355 360 365
 Cys Pro Asp Cys Gly Lys Thr Phe Ala Thr Ser Ser Gly Leu Lys Gln
 370 375 380
 His Lys His Ile His Ser Thr Val Lys Pro Phe Ile Cys Glu Val Cys
 385 390 395 400
 His Lys Ser Tyr Thr Gln Phe Ser Asn Leu Cys Arg His Lys Arg Met
 405 410 415
 His Ala Asp Cys Arg Thr Gln Ile Lys Cys Lys Asp Cys Gly Gln Met
 420 425 430

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Phe Ser Thr Thr Ser Ser Leu Asn Lys His Arg Arg Phe Cys Glu Gly
 435 440 445
 Lys Asn His Tyr Thr Pro Gly Gly Ile Phe Ala Pro Gly Leu Pro Leu
 450 455 460
 Thr Pro Ser Pro Met Met Asp Lys Ala Lys Pro Ser Pro Ser Leu Asn
 465 470 475 480
 His Ala Ser Leu Gly Phe Asn Glu Tyr Phe Pro Tyr Arg Pro His Pro
 485 490 495
 Gly Ser Leu Pro Phe Ser Thr Ala Pro Pro Thr Phe Pro Ala Leu Thr
 500 505 510
 Pro Gly Phe Pro Gly Ile Phe Pro Pro Ser Leu Tyr Pro Arg Pro Pro
 515 520 525
 Leu Leu Pro Pro Thr Ser Leu Leu Lys Ser Pro Leu Asn His Thr Gln
 530 535 540
 Asp Ala Lys Leu Pro Ser Pro Leu Gly Asn Pro Ala Leu Pro Leu Val
 545 550 555 560
 Ser Ala Val Ser Asn Ser Ser Gln Gly Thr Thr Ala Ala Ala Gly Pro
 565 570 575
 Glu Glu Lys Phe Glu Ser Arg Leu Glu Asp Ser Cys Val Glu Lys Leu
 580 585 590
 Lys Thr Arg Ser Ser Asp Met Ser Asp Gly Ser Asp Phe Glu Asp Val
 595 600 605
 Asn Thr Thr Thr Gly Thr Asp Leu Asp Thr Thr Thr Gly Thr Gly Ser
 610 615 620
 Asp Leu Asp Ser Asp Val Asp Ser Asp Pro Asp Lys Asp Lys Gly Lys
 625 630 635 640
 Gly Lys Ser Ala Glu Gly Gln Pro Lys Phe Gly Gly Gly Leu Ala Pro
 645 650 655
 Pro Gly Ala Pro Asn Ser Val Ala Glu Val Pro Val Phe Tyr Ser Gln
 660 665 670
 His Ser Phe Phe Pro Pro Pro Asp Glu Gln Leu Leu Thr Ala Thr Gly
 675 680 685
 Ala Ala Gly Asp Ser Ile Lys Ala Ile Ala Ser Ile Ala Glu Lys Tyr
 690 695 700

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Phe Gly Pro Gly Phe Met Gly Met Gln Glu Lys Lys Leu Gly Ser Leu
 705 710 715 720
 Pro Tyr His Ser Ala Phe Pro Phe Gln Phe Leu Pro Asn Phe Pro His
 725 730 735
 Ser Leu Tyr Pro Phe Thr Asp Arg Ala Leu Ala His Asn Leu Leu Val
 740 745 750
 Lys Ala Glu Pro Lys Ser Pro Arg Asp Ala Leu Lys Val Gly Gly Pro
 755 760 765
 Ser Ala Glu Cys Pro Phe Asp Leu Thr Thr Lys Pro Lys Asp Val Lys
 770 775 780
 Pro Ile Leu Pro Met Pro Lys Gly Pro Ser Ala Pro Ala Ser Gly Glu
 785 790 795 800
 Glu Gln Pro Leu Asp Leu Ser Ile Gly Ser Arg Ala Arg Ala Ser Gln
 805 810 815
 Asn Gly Gly Gly Arg Glu Pro Arg Lys Asn His Val Tyr Gly Glu Arg
 820 825 830
 Lys Leu Gly Ala Gly Glu Gly Leu Pro Gln Val Cys Pro Ala Arg Met
 835 840 845
 Pro Gln Gln Pro Pro Leu His Tyr Ala Lys Pro Ser Pro Phe Phe Met
 850 855 860
 Asp Pro Ile Tyr Arg Val Glu Lys Arg Lys Val Thr Asp Pro Val Gly
 865 870 875 880
 Ala Leu Lys Glu Lys Tyr Leu Arg Pro Ser Pro Leu Leu Phe His Pro
 885 890 895
 Gln Met Ser Ala Ile Glu Thr Met Thr Glu Lys Leu Glu Ser Phe Ala
 900 905 910
 Ala Met Lys Ala Asp Ser Gly Ser Ser Leu Gln Pro Leu Pro His His
 915 920 925
 Pro Phe Asn Phe Arg Ser Pro Pro Pro Thr Leu Ser Asp Pro Ile Leu
 930 935 940
 Arg Lys Gly Lys Glu Arg Tyr Thr Cys Arg Tyr Cys Gly Lys Ile Phe
 945 950 955 960
 Pro Arg Ser Ala Asn Leu Thr Arg His Leu Arg Thr His Thr Gly Glu
 965 970 975

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Gln Pro Tyr Arg Cys Lys Tyr Cys Asp Arg Ser Phe Ser Ile Ser Ser
980 985 990

Asn Leu Gln Arg His Val Arg Asn Ile His Asn Lys Glu Lys Pro Phe
995 1000 1005

Lys Cys His Leu Cys Asn Arg Cys Phe Gly Gln Gln Thr Asn Leu
1010 1015 1020

Asp Arg His Leu Lys Lys His Glu His Glu Asn Ala Pro Val Ser
1025 1030 1035

Gln His Pro Gly Val Leu Thr Asn His Leu Gly Thr Ser Ala Ser
1040 1045 1050

Ser Pro Thr Ser Glu Ser Asp Asn His Ala Leu Leu Asp Glu Lys
1055 1060 1065

Glu Asp Ser Tyr Phe Ser Glu Ile Arg Asn Phe Ile Ala Asn Ser
1070 1075 1080

Glu Met Asn Gln Ala Ser Thr Arg Thr Glu Lys Arg Ala Asp Met
1085 1090 1095

Gln Ile Val Asp Gly Ser Ala Gln Cys Pro Gly Leu Ala Ser Glu
1100 1105 1110

Lys Gln Glu Asp Val Glu Glu Glu Asp Asp Asp Asp Leu Glu Glu
1115 1120 1125

Asp Asp Glu Asp Ser Leu Ala Gly Lys Ser Gln Asp Asp Thr Val
1130 1135 1140

Ser Pro Ala Pro Glu Pro Gln Ala Ala Tyr Glu Asp Glu Glu Asp
1145 1150 1155

Glu Glu Pro Ala Ala Ser Leu Ala Val Gly Phe Asp His Thr Arg
1160 1165 1170

Arg Cys Ala Glu Asp His Glu Gly Gly Leu Leu Ala Leu Glu Pro
1175 1180 1185

Met Pro Thr Phe Gly Lys Gly Leu Asp Leu Arg Arg Ala Ala Glu
1190 1195 1200

Glu Ala Phe Glu Val Lys Asp Val Leu Asn Ser Thr Leu Asp Ser
1205 1210 1215

Glu Ala Leu Lys His Thr Leu Cys Arg Gln Ala Lys Asn Gln Ala
1220 1225 1230

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Tyr Ala Met Met Leu Ser Leu Ser Glu Asp Thr Pro Leu His Thr
1235 1240 1245

Pro Ser Gln Gly Ser Leu Asp Ala Trp Leu Lys Val Thr Gly Ala
1250 1255 1260

Thr Ser Glu Ser Gly Ala Phe His Pro Ile Asn His Leu
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<213> Homo sapiens
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20 25 30

Ala His Ser Gly Ala Arg Pro Cys Asp Ile Ser Arg Ile Leu Gln Thr
35 40 45

His Ala Asp Ala Lys Val Gln Val Leu Asp Asn Gln Asn Val Ser Asn
50 55 60

Gly Cys Val Ser Lys Ile Leu Gly Arg Tyr Tyr Glu Thr Gly Ser Ile
65 70 75 80

Arg Pro Arg Ala Ile Gly Gly Ser Lys Pro Arg Val Ala Thr Pro Glu
85 90 95

Val Val Ser Lys Ile Ala Gln Tyr Lys Arg Glu Cys Pro Ser Ile Phe
100 105 110

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

Asp Asn Ile Pro Ser Val Ser Ser Ile Asn Arg Val Leu Arg Asn Leu
130 135 140

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

Arg Met Leu Asn Gly Gln Thr Gly Ser Trp Gly Thr Arg Pro Gly Trp
165 170 175

Tyr Pro Gly Thr Ser Val Pro Gly Gln Pro Thr Gln Asp Gly Cys Gln
180 185 190

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Gln Gln Glu Gly Gly Gly Glu Asn Thr Asn Ser Ile Ser Ser Asn Gly
195 200 205

Glu Asp Ser Asp Glu Ala Gln Met Arg Leu Gln Leu Lys Arg Lys Leu
210 215 220

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

Lys Glu Phe Glu Arg Thr His Tyr Pro Asp Val Phe Ala Arg Glu Arg
245 250 255

Leu Ala Ala Lys Ile Asp Leu Pro Glu Ala Arg Ile Gln Val Trp Phe
260 265 270

Ser Asn Arg Arg Ala Lys Trp Arg Arg Glu Glu Lys Leu Arg Asn Gln
275 280 285

Arg Arg Gln Ala Ser Asn Thr Pro Ser His Ile Pro Ile Ser Ser Ser
290 295 300

Phe Ser Thr Ser Val Tyr Gln Pro Ile Pro Gln Pro Thr Thr Pro Val
305 310 315 320

Ser Ser Phe Thr Ser Gly Ser Met Leu Gly Arg Thr Asp Thr Ala Leu
325 330 335

Thr Asn Thr Tyr Ser Ala Leu Pro Pro Met Pro Ser Phe Thr Met Ala
340 345 350

Asn Asn Leu Pro Met Gln Pro Pro Val Pro Ser Gln Thr Ser Ser Tyr
355 360 365

Ser Cys Met Leu Pro Thr Ser Pro Ser Val Asn Gly Arg Ser Tyr Asp
370 375 380

Thr Tyr Thr Pro Pro His Met Gln Thr His Met Asn Ser Gln Pro Met
385 390 395 400

Gly Thr Ser Gly Thr Thr Ser Thr Gly Leu Ile Ser Pro Gly Val Ser
405 410 415

Val Pro Val Gln Val Pro Gly Ser Glu Pro Asp Met Ser Gln Tyr Trp
420 425 430

Pro Arg Leu Gln
435

<210> 21
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<213> Homo sapiens

<400> 21

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Pro Gly Pro Tyr Leu Leu Ala Gly Glu Gly Pro Leu Asp Lys Gly Glu
35        40        45
Ser Cys Gly Gly Gly Arg Gly Glu Leu Ala Glu Leu Pro Asn Gly Leu
50        55        60
Gly Glu Thr Arg Gly Ser Glu Asp Glu Thr Asp Asp Asp Gly Glu Asp
65        70        75        80
Phe Thr Pro Pro Ile Leu Lys Glu Leu Glu Asn Leu Ser Pro Glu Glu
85        90        95
Ala Ala His Gln Lys Ala Val Val Glu Thr Leu Leu Gln Glu Asp Pro
100       105       110
Trp Arg Val Ala Lys Met Val Lys Ser Tyr Leu Gln Gln His Asn Ile
115      120      125
Pro Gln Arg Glu Val Val Asp Thr Thr Gly Leu Asn Gln Ser His Leu
130      135      140
Ser Gln His Leu Asn Lys Gly Thr Pro Met Lys Thr Gln Lys Arg Ala
145      150      155      160
Ala Leu Tyr Thr Trp Tyr Val Arg Lys Gln Arg Glu Val Ala Gln Gln
165      170      175
Phe Thr His Ala Gly Gln Gly Gly Leu Ile Glu Glu Pro Thr Gly Asp
180      185      190
Glu Leu Pro Thr Lys Lys Gly Arg Arg Asn Arg Phe Lys Trp Gly Pro
195      200      205
Ala Ser Gln Gln Ile Leu Phe Gln Ala Tyr Glu Arg Gln Lys Asn Pro
210      215      220
Ser Lys Glu Glu Arg Glu Thr Leu Val Glu Glu Cys Asn Arg Ala Glu
225      230      235      240
Cys Ile Gln Arg Gly Val Ser Pro Ser Gln Ala Gln Gly Leu Gly Ser
245      250      255

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Asn Leu Val Thr Glu Val Arg Val Tyr Asn Trp Phe Ala Asn Arg Arg
 260 265 270
 Lys Glu Glu Ala Phe Arg His Lys Leu Ala Met Asp Thr Tyr Ser Gly
 275 280 285
 Pro Pro Pro Gly Pro Gly Pro Gly Pro Ala Leu Pro Ala His Ser Ser
 290 295 300
 Pro Gly Leu Pro Pro Pro Ala Leu Ser Pro Ser Lys Val His Gly Val
 305 310 315 320
 Arg Tyr Gly Gln Pro Ala Thr Ser Glu Thr Ala Glu Val Pro Ser Ser
 325 330 335
 Ser Gly Gly Pro Leu Val Thr Val Ser Thr Pro Leu His Gln Val Ser
 340 345 350
 Pro Thr Gly Leu Glu Pro Ser His Ser Leu Leu Ser Thr Glu Ala Lys
 355 360 365
 Leu Val Ser Ala Ala Gly Gly Pro Leu Pro Pro Val Ser Thr Leu Thr
 370 375 380
 Ala Leu His Ser Leu Glu Gln Thr Ser Pro Gly Leu Asn Gln Gln Pro
 385 390 395 400
 Gln Asn Leu Ile Met Ala Ser Leu Pro Gly Val Met Thr Ile Gly Pro
 405 410 415
 Gly Glu Pro Ala Ser Leu Gly Pro Thr Phe Thr Asn Thr Gly Ala Ser
 420 425 430
 Thr Leu Val Ile Gly Leu Ala Ser Thr Gln Ala Gln Ser Val Pro Val
 435 440 445
 Ile Asn Ser Met Gly Ser Ser Leu Thr Thr Leu Gln Pro Val Gln Phe
 450 455 460
 Ser Gln Pro Leu His Pro Ser Tyr Gln Gln Pro Leu Met Pro Pro Val
 465 470 475 480
 Gln Ser His Val Thr Gln Ser Pro Phe Met Ala Thr Met Ala Gln Leu
 485 490 495
 Gln Ser Pro His Ala Leu Tyr Ser His Lys Pro Glu Val Ala Gln Tyr
 500 505 510
 Thr His Thr Gly Leu Leu Pro Gln Thr Met Leu Ile Thr Asp Thr Thr
 515 520 525

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Asn Leu Ser Ala Leu Ala Ser Leu Thr Pro Thr Lys Gln Val Phe Thr
530 535 540

Ser Asp Thr Glu Ala Ser Ser Glu Ser Gly Leu His Thr Pro Ala Ser
545 550 555 560

Gln Ala Thr Thr Leu His Val Pro Ser Gln Asp Pro Ala Gly Ile Gln
565 570 575

His Leu Gln Pro Ala His Arg Leu Ser Ala Ser Pro Thr Val Ser Ser
580 585 590

Ser Ser Leu Val Leu Tyr Gln Ser Ser Asp Ser Ser Asn Gly Gln Ser
595 600 605

His Leu Leu Pro Ser Asn His Ser Val Ile Glu Thr Phe Ile Ser Thr
610 615 620

Gln Met Ala Ser Ser Ser Gln
625 630

<210> 22
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<212> PRT
<213> Homo sapiens

<400> 22

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Thr Met Ala Pro Leu Asn Ser Tyr Met Thr Leu Asn Pro Leu Ser Ser
35 40 45

Pro Tyr Pro Pro Gly Gly Leu Pro Ala Ser Pro Leu Pro Ser Gly Pro
50 55 60

Leu Ala Pro Pro Ala Pro Ala Ala Pro Leu Gly Pro Thr Phe Pro Gly
65 70 75 80

Leu Gly Val Ser Gly Gly Ser Ser Ser Ser Gly Tyr Gly Ala Pro Gly
85 90 95

Pro Gly Leu Val His Gly Lys Glu Met Pro Lys Gly Tyr Arg Arg Pro
100 105 110

Leu Ala His Ala Lys Pro Pro Tyr Ser Tyr Ile Ser Leu Ile Thr Met
115 120 125

Ala Ile Gln Gln Ala Pro Gly Lys Met Leu Thr Leu Ser Glu Ile Tyr

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130

135

140

Gln Trp Ile Met Asp Leu Phe Pro Tyr Tyr Arg Glu Asn Gln Gln Arg
145 150 155 160

Trp Gln Asn Ser Ile Arg His Ser Leu Ser Phe Asn Asp Cys Phe Val
165 170 175

Lys Val Ala Arg Ser Pro Asp Lys Pro Gly Lys Gly Ser Tyr Trp Ala
180 185 190

Leu His Pro Ser Ser Gly Asn Met Phe Glu Asn Gly Cys Tyr Leu Arg
195 200 205

Arg Gln Lys Arg Phe Lys Leu Glu Glu Lys Val Lys Lys Gly Gly Ser
210 215 220

Gly Ala Ala Thr Thr Thr Arg Asn Gly Thr Gly Ser Ala Ala Ser Thr
225 230 235 240

Thr Thr Pro Ala Ala Thr Val Thr Ser Pro Pro Gln Pro Pro Pro Pro
245 250 255

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

Cys Gly Ser Pro Ala Ser Ser Thr Pro Tyr Phe Thr Gly Leu Glu Leu
275 280 285

Pro Gly Glu Leu Lys Leu Asp Ala Pro Tyr Asn Phe Asn His Pro Phe
290 295 300

Ser Ile Asn Asn Leu Met Ser Glu Gln Thr Pro Ala Pro Pro Lys Leu
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Asp Val Gly Phe Gly Gly Tyr Gly Ala Glu Gly Gly Glu Pro Gly Val
325 330 335

Tyr Tyr Gln Gly Leu Tyr Ser Arg Ser Leu Leu Asn Ala Ser
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<210> 23
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<213> Homo sapiens

<400> 23

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Ser Tyr Tyr Ala Asp Thr Gln Glu Ala Tyr Ser Ser Val Pro Val Ser
20 25 30

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

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Ala Asp Ser Pro Leu His Arg Gly Val His Gly Lys Thr Gly Gln Leu
305 310 315 320

Glu Gly Ala Pro Ala Pro Gly Pro Ala Ala Ser Pro Gln Thr Leu Asp
325 330 335

His Ser Gly Ala Thr Ala Thr Gly Gly Ala Ser Glu Leu Lys Thr Pro
340 345 350

Ala Ser Ser Thr Ala Pro Pro Ile Ser Ser Gly Pro Gly Ala Leu Ala
355 360 365

Ser Val Pro Ala Ser His Pro Ala His Gly Leu Ala Pro His Glu Ser
370 375 380

Gln Leu His Leu Lys Gly Asp Pro His Tyr Ser Phe Asn His Pro Phe
385 390 395 400

Ser Ile Asn Asn Leu Met Ser Ser Ser Glu Gln Gln His Lys Leu Asp
405 410 415

Phe Lys Ala Tyr Glu Gln Ala Leu Gln Tyr Ser Pro Tyr Gly Ser Thr
420 425 430

Leu Pro Ala Ser Leu Pro Leu Gly Ser Ala Ser Val Thr Thr Arg Ser
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Pro Ile Glu Pro Ser Ala Leu Glu Pro Ala Tyr Tyr Gln Gly Val Tyr
450 455 460

Ser Arg Pro Val Leu Asn Thr Ser
465 470

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<213> Homo sapiens

<400> 24

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

Tyr Met Ser Met Ser Ala Ala Ala Met Gly Ser Gly Ser Gly Asn Met
50 55 60

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Ser Ala Gly Ser Met Asn Met Ser Ser Tyr Val Gly Ala Gly Met Ser
65 70 75 80

Pro Ser Leu Ala Gly Met Ser Pro Gly Ala Gly Ala Met Ala Gly Met
85 90 95

Gly Gly Ser Ala Gly Ala Ala Gly Val Ala Gly Met Gly Pro His Leu
100 105 110

Ser Pro Ser Leu Ser Pro Leu Gly Gly Gln Ala Ala Gly Ala Met Gly
115 120 125

Gly Leu Ala Pro Tyr Ala Asn Met Asn Ser Met Ser Pro Met Tyr Gly
130 135 140

Gln Ala Gly Leu Ser Arg Ala Arg Asp Pro Lys Thr Tyr Arg Arg Ser
145 150 155 160

Tyr Thr His Ala Lys Pro Pro Tyr Ser Tyr Ile Ser Leu Ile Thr Met
165 170 175

Ala Ile Gln Gln Ser Pro Asn Lys Met Leu Thr Leu Ser Glu Ile Tyr
180 185 190

Gln Trp Ile Met Asp Leu Phe Pro Phe Tyr Arg Gln Asn Gln Gln Arg
195 200 205

Trp Gln Asn Ser Ile Arg His Ser Leu Ser Phe Asn Asp Cys Phe Leu
210 215 220

Lys Val Pro Arg Ser Pro Asp Lys Pro Gly Lys Gly Ser Phe Trp Thr
225 230 235 240

Leu His Pro Asp Ser Gly Asn Met Phe Glu Asn Gly Cys Tyr Leu Arg
245 250 255

Arg Gln Lys Arg Phe Lys Cys Glu Lys Gln Leu Ala Leu Lys Glu Ala
260 265 270

Ala Gly Ala Ala Gly Ser Gly Lys Lys Ala Ala Ala Gly Ala Gln Ala
275 280 285

Ser Gln Ala Gln Leu Gly Glu Ala Ala Gly Pro Ala Ser Glu Thr Pro
290 295 300

Ala Gly Thr Glu Ser Pro His Ser Ser Ala Ser Pro Cys Gln Glu His
305 310 315 320

Lys Arg Gly Gly Leu Gly Glu Leu Lys Gly Thr Pro Ala Ala Ala Leu
325 330 335

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Ser Pro Pro Glu Pro Ala Pro Ser Pro Gly Gln Gln Gln Gln Ala Ala
340 345 350

Ala His Leu Leu Gly Pro Pro His His Pro Gly Leu Pro Pro Glu Ala
355 360 365

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

Asn Asn Leu Met Ser Ser Glu Gln Gln His His His Ser His His His
385 390 395 400

His Gln Pro His Lys Met Asp Leu Lys Ala Tyr Glu Gln Val Met His
405 410 415

Tyr Pro Gly Tyr Gly Ser Pro Met Pro Gly Ser Leu Ala Met Gly Pro
420 425 430

Val Thr Asn Lys Thr Gly Leu Asp Ala Ser Pro Leu Ala Ala Asp Thr
435 440 445

Ser Tyr Tyr Gln Gly Val Tyr Ser Arg Pro Ile Met Asn Ser Ser
450 455 460

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<212> PRT
<213> Homo sapiens
<400> 25

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1 5 10 15

Phe Gly Phe Pro Arg Gly Ala Gly Pro Ala Gln Pro Pro Ala Pro Pro
20 25 30

Ala Ala Pro Glu Pro Leu Gly Gly Ile Cys Glu His Glu Thr Ser Ile
35 40 45

Asp Ile Ser Ala Tyr Ile Asp Pro Ala Ala Phe Asn Asp Glu Phe Leu
50 55 60

Ala Asp Leu Phe Gln His Ser Arg Gln Gln Glu Lys Ala Lys Ala Ala
65 70 75 80

Val Gly Pro Thr Gly Gly Gly Gly Gly Gly Asp Phe Asp Tyr Pro Gly
85 90 95

Ala Pro Ala Gly Pro Gly Gly Ala Val Met Pro Gly Gly Ala His Gly
100 105 110

WAY10252sequencelistingST25

Pro Pro Pro Gly Tyr Gly Cys Ala Ala Ala Gly Tyr Leu Asp Gly Arg
115 120 125

Leu Glu Pro Leu Tyr Glu Arg Val Gly Ala Pro Ala Leu Arg Pro Leu
130 135 140

Val Ile Lys Gln Glu Pro Arg Glu Glu Asp Glu Ala Lys Gln Leu Ala
145 150 155 160

Leu Ala Gly Leu Phe Pro Tyr Gln Pro Pro Pro Pro Pro Pro Ser
165 170 175

His Pro His Pro His Pro Pro Pro Ala His Leu Ala Ala Pro His Leu
180 185 190

Gln Phe Gln Ile Ala His Cys Gly Gln Thr Thr Met His Leu Gln Pro
195 200 205

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

Pro Ala Leu Gly Ala Ala Gly Leu Pro Gly Pro Gly Ser Ala Leu Lys
225 230 235 240

Gly Leu Gly Ala Ala His Pro Asp Leu Arg Ala Ser Gly Gly Ser Gly
245 250 255

Ala Gly Lys Ala Lys Lys Ser Val Asp Lys Asn Ser Asn Glu Tyr Arg
260 265 270

Val Arg Arg Glu Arg Asn Asn Ile Ala Val Arg Lys Ser Arg Asp Lys
275 280 285

Ala Lys Gln Arg Asn Val Glu Thr Gln Gln Lys Val Leu Glu Leu Thr
290 295 300

Ser Asp Asn Asp Arg Leu Arg Lys Arg Val Glu Gln Leu Ser Arg Glu
305 310 315 320

Leu Asp Thr Leu Arg Gly Ile Phe Arg Gln Leu Pro Glu Ser Ser Leu
325 330 335

Val Lys Ala Met Gly Asn Cys Ala
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<210> 26
<211> 271
<212> PRT
<213> Homo sapiens

<400> 26

Met Leu Gln Ala Cys Lys Met Glu Gly Phe Pro Leu Val Pro Pro Gln
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 Pro Ser Glu Asp₂₀ Leu Val Pro Tyr Asp₂₅ Thr Asp Leu Tyr Gln₃₀ Arg Gln
 Thr His Glu₃₅ Tyr Tyr Pro Tyr Leu₄₀ Ser Ser Asp Gly Glu₄₅ Ser His Ser
 Asp His₅₀ Tyr Trp Asp Phe His₅₅ Pro His His Val His₆₀ Ser Glu Phe Glu
 Ser Phe Ala Glu Asn₇₀ Asn Phe Thr Glu Leu Gln₇₅ Ser Val Gln Pro Pro₈₀
 Gln Leu Gln Gln Leu₈₅ Tyr Arg His Met Glu₉₀ Leu Glu Gln Met His₉₅ Val
 Leu Asp Thr Pro₁₀₀ Met Val Pro Pro His₁₀₅ Pro Ser Leu Gly His₁₁₀ Gln Val
 Ser Tyr Leu₁₁₅ Pro Arg Met Cys Leu₁₂₀ Gln Tyr Pro Ser Leu₁₂₅ Ser Pro Ala
 Gln Pro₁₃₀ Ser Ser Asp Glu Glu₁₃₅ Glu Gly Glu Arg Gln₁₄₀ Ser Pro Pro Leu
 Glu₁₄₅ Val Ser Asp Gly Glu₁₅₀ Ala Asp Gly Leu Glu₁₅₅ Pro Gly Pro Gly Leu₁₆₀
 Leu Pro Gly Glu Thr₁₆₅ Gly Ser Lys Lys Lys₁₇₀ Ile Arg Leu Tyr Gln₁₇₅ Phe
 Leu Leu Asp Leu₁₈₀ Leu Arg Ser Gly Asp₁₈₅ Met Lys Asp Ser Ile₁₉₀ Trp Trp
 Val Asp Lys₁₉₅ Asp Lys Gly Thr Phe₂₀₀ Gln Phe Ser Ser Lys₂₀₅ His Lys Glu
 Ala Leu₂₁₀ Ala His Arg Trp Gly₂₁₅ Ile Gln Lys Gly Asn₂₂₀ Arg Lys Lys Met
 Thr Tyr Gln Lys Met Ala₂₃₀ Arg Ala Leu Arg Asn₂₃₅ Tyr Gly Lys Thr Gly₂₄₀
 Glu Val Lys Lys Val₂₄₅ Lys Lys Lys Leu Thr₂₅₀ Tyr Gln Phe Ser Gly₂₅₅ Glu
 Val Leu Gly Arg₂₆₀ Gly Gly Leu Ala Glu₂₆₅ Arg Arg His Pro Pro₂₇₀ His

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<211> 443
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 <213> Homo sapiens

<400> 27

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 Gly Tyr Arg Glu Ala Gln Ser Leu Val Gln Gly Asp Tyr Gly Ala Leu
 35 40 45
 Gln Ser Asn Gly His Pro Leu Ser His Ala His Gln Trp Ile Thr Ala
 50 55 60
 Leu Ser His Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
 65 70 75 80
 Gly Gly Gly Gly Gly Gly Gly Gly Asp Gly Ser Pro Trp Ser Thr Ser
 85 90 95
 Pro Leu Gly Gln Pro Asp Ile Lys Pro Ser Val Val Val Gln Gln Gly
 100 105 110
 Gly Arg Gly Asp Glu Leu His Gly Pro Gly Ala Leu Gln Gln Gln His
 115 120 125
 Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
 130 135 140
 Gln Gln Gln Gln Gln Arg Pro Pro His Leu Val His His Ala Ala Asn
 145 150 155 160
 His His Pro Gly Pro Gly Ala Trp Arg Ser Ala Ala Ala Ala Ala His
 165 170 175
 Leu Pro Pro Ser Met Gly Ala Ser Asn Gly Gly Leu Leu Tyr Ser Gln
 180 185 190
 Pro Ser Phe Thr Val Asn Gly Met Leu Gly Ala Gly Gly Gln Pro Ala
 195 200 205
 Gly Leu His His His Gly Leu Arg Asp Ala His Asp Glu Pro His His
 210 215 220
 Ala Asp His His Pro His Pro His Ser His Pro His Gln Gln Pro Pro
 225 230 235 240
 Pro Pro Pro Pro Pro Gln Gly Pro Pro Gly His Pro Gly Ala His His
 245 250 255

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Asp Pro His Ser Asp Glu Asp Thr Pro Thr Ser Asp Asp Leu Glu Gln
260 265 270

Phe Ala Lys Gln Phe Lys Gln Arg Arg Ile Lys Leu Gly Phe Thr Gln
275 280 285

Ala Asp Val Gly Leu Ala Leu Gly Thr Leu Tyr Gly Asn Val Phe Ser
290 295 300

Gln Thr Thr Ile Cys Arg Phe Glu Ala Leu Gln Leu Ser Phe Lys Asn
305 310 315 320

Met Cys Lys Leu Lys Pro Leu Leu Asn Lys Trp Leu Glu Glu Ala Asp
325 330 335

Ser Ser Ser Gly Ser Pro Thr Ser Ile Asp Lys Ile Ala Ala Gln Gly
340 345 350

Arg Lys Arg Lys Lys Arg Thr Ser Ile Glu Val Ser Val Lys Gly Ala
355 360 365

Leu Glu Ser His Phe Leu Lys Cys Pro Lys Pro Ser Ala Gln Glu Ile
370 375 380

Thr Ser Leu Ala Asp Ser Leu Gln Leu Glu Lys Glu Val Val Arg Val
385 390 395 400

Trp Phe Cys Asn Arg Arg Gln Lys Glu Lys Arg Met Thr Pro Pro Gly
405 410 415

Gly Thr Leu Pro Gly Ala Glu Asp Val Tyr Gly Gly Ser Arg Asp Thr
420 425 430

Pro Pro His His Gly Val Gln Thr Pro Val Gln
435 440

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<211> 489
<212> PRT
<213> Homo sapiens
<400> 28

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

His His Ala Ser His Gly His His Asn Ser His His Pro Gln His His
35 40 45

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His His His His His His His His His Pro Pro Pro Pro Ala Pro Gln
50 55 60

Pro Pro Pro Pro Pro Gln Gln Gln Gln Pro Pro Pro Pro Pro Pro Pro
65 70 75 80

Ala Pro Gln Pro Pro Gln Thr Arg Gly Ala Pro Ala Ala Asp Asp Asp
85 90 95

Lys Gly Pro Gln Gln Leu Leu Leu Pro Pro Pro Pro Pro Pro Pro Pro
100 105 110

Ala Ala Ala Leu Asp Gly Ala Lys Ala Asp Gly Leu Gly Gly Lys Gly
115 120 125

Glu Pro Gly Gly Gly Pro Gly Glu Leu Ala Pro Val Gly Pro Asp Glu
130 135 140

Lys Glu Lys Gly Ala Gly Ala Gly Gly Glu Glu Lys Lys Gly Ala Gly
145 150 155 160

Glu Gly Gly Lys Asp Gly Glu Gly Gly Lys Glu Gly Glu Lys Lys Asn
165 170 175

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

Ala Ile Arg Gln Ser Pro Glu Lys Arg Leu Thr Leu Asn Gly Ile Tyr
195 200 205

Glu Phe Ile Met Lys Asn Phe Pro Tyr Tyr Arg Glu Asn Lys Gln Gly
210 215 220

Trp Gln Asn Ser Ile Arg His Asn Leu Ser Leu Asn Lys Cys Phe Val
225 230 235 240

Lys Val Pro Arg His Tyr Asp Asp Pro Gly Lys Gly Asn Tyr Trp Met
245 250 255

Leu Asp Pro Ser Ser Asp Asp Val Phe Ile Gly Gly Thr Thr Gly Lys
260 265 270

Leu Arg Arg Arg Ser Thr Thr Ser Arg Ala Lys Leu Ala Phe Lys Arg
275 280 285

Gly Ala Arg Leu Thr Ser Thr Gly Leu Thr Phe Met Asp Arg Ala Gly
290 295 300

Ser Leu Tyr Trp Pro Met Ser Pro Phe Leu Ser Leu His His Pro Arg
305 310 315 320

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Ala Ser Ser Thr Leu Ser Tyr Asn Gly Thr Thr Ser Ala Tyr Pro Ser
325 330 335

His Pro Met Pro Tyr Ser Ser Val Leu Thr Gln Asn Ser Leu Gly Asn
340 345 350

Asn His Ser Phe Ser Thr Ala Asn Gly Leu Ser Val Asp Arg Leu Val
355 360 365

Asn Gly Glu Ile Pro Tyr Ala Thr His His Leu Thr Ala Ala Ala Leu
370 375 380

Ala Ala Ser Val Pro Cys Gly Leu Ser Val Pro Cys Ser Gly Thr Tyr
385 390 395 400

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

Phe Phe Pro His Val Pro His Pro Ser Met Thr Ser Gln Ser Ser Thr
420 425 430

Ser Met Ser Ala Arg Ala Ala Ser Ser Ser Thr Ser Pro Gln Ala Pro
435 440 445

Ser Thr Leu Pro Cys Glu Ser Leu Arg Pro Ser Leu Pro Ser Phe Thr
450 455 460

Thr Gly Leu Ser Gly Gly Leu Ser Asp Tyr Phe Thr His Gln Asn Gln
465 470 475 480

Gly Ser Ser Ser Asn Pro Leu Ile His
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<210> 29
<211> 523
<212> PRT
<213> Homo sapiens

<400> 29

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

Ile Ile Gly Asn Ile Ile Gly Ser Gly Ile Phe Ile Ser Pro Lys Gly
50 55 60

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

Leu Gly Gly Gly Val Thr Ala Leu Gly Ser Leu Cys Tyr Ala Glu Leu
85 90 95

Gly Val Ala Ile Pro Lys Ser Gly Gly Asp Tyr Ala Tyr Val Thr Glu
100 105 110

Ile Phe Gly Gly Leu Ala Gly Phe Leu Leu Leu Trp Ser Ala Val Leu
115 120 125

Ile Met Tyr Pro Thr Ser Leu Ala Val Ile Ser Met Thr Phe Ser Asn
130 135 140

Tyr Val Leu Gln Pro Val Phe Pro Asn Cys Ile Pro Pro Thr Thr Ala
145 150 155 160

Ser Arg Val Leu Ser Met Ala Cys Leu Met Leu Leu Thr Trp Val Asn
165 170 175

Ser Ser Ser Val Arg Trp Ala Thr Arg Ile Gln Asp Met Phe Thr Gly
180 185 190

Gly Lys Leu Leu Ala Leu Ser Leu Ile Ile Gly Val Gly Leu Leu Gln
195 200 205

Ile Phe Gln Gly His Phe Glu Glu Leu Arg Pro Ser Asn Ala Phe Ala
210 215 220

Phe Trp Met Thr Pro Ser Val Gly His Leu Ala Leu Ala Phe Leu Gln
225 230 235 240

Gly Ser Phe Ala Phe Ser Gly Trp Asn Phe Leu Asn Tyr Val Thr Glu
245 250 255

Glu Met Val Asp Ala Arg Lys Asn Leu Pro Arg Ala Ile Phe Ile Ser
260 265 270

Ile Pro Leu Val Thr Phe Val Tyr Thr Phe Thr Asn Ile Ala Tyr Phe
275 280 285

Thr Ala Met Ser Pro Gln Glu Leu Leu Ser Ser Asn Ala Val Ala Val
290 295 300

Thr Phe Gly Glu Lys Leu Leu Gly Tyr Phe Ser Trp Val Met Pro Val
305 310 315 320

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

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Tyr Ser Arg Leu Cys Phe Ser Gly Ala Arg Glu Gly His Leu Pro Ser
340 345 350

Leu Leu Ala Met Ile His Val Arg His Cys Thr Pro Ile Pro Ala Leu
355 360 365

Leu Val Cys Cys Gly Ala Thr Ala Val Ile Met Leu Val Gly Asp Thr
370 375 380

Tyr Thr Leu Ile Asn Tyr Val Ser Phe Ile Asn Tyr Leu Cys Tyr Gly
385 390 395 400

Val Thr Ile Leu Gly Leu Leu Leu Leu Arg Trp Arg Arg Pro Ala Leu
405 410 415

His Arg Pro Ile Lys Val Asn Leu Leu Ile Pro Val Ala Tyr Leu Val
420 425 430

Phe Trp Ala Phe Leu Leu Val Phe Ser Phe Ile Ser Glu Pro Met Val
435 440 445

Cys Gly Val Gly Val Ile Ile Ile Leu Thr Gly Val Pro Ile Phe Phe
450 455 460

Leu Gly Val Phe Trp Arg Ser Lys Pro Lys Cys Val His Arg Leu Thr
465 470 475 480

Glu Ser Met Thr His Trp Gly Gln Glu Leu Cys Phe Val Val Tyr Pro
485 490 495

Gln Asp Ala Pro Glu Glu Glu Glu Asn Gly Pro Cys Pro Pro Ser Leu
500 505 510

Leu Pro Ala Thr Asp Lys Pro Ser Lys Pro Gln
515 520

<210> 30
<211> 236
<212> PRT
<213> Homo sapiens

<400> 30

Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro
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Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe
20 25 30

Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln
35 40 45

Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala Pro

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50

55

60

Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His Lys
65 70 75 80

Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu Leu
85 90 95

Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser Leu
100 105 110

Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg
115 120 125

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

Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu
145 150 155 160

Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu
165 170 175

His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr
180 185 190

Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro
195 200 205

Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser Pro
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Glu Glu Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe
225 230 235

<210> 31
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<212> PRT
<213> Homo sapiens

<400> 31

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

Thr Glu Ile Thr Ala Thr Thr Ser Leu Pro Ser Phe Ser Thr Phe Met
50 55 60

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Asp Asn Tyr Ser Thr Gly Tyr Asp Val Lys Pro Pro Cys Leu Tyr Gln
 65 70 75 80
 Met Pro Leu Ser Gly Gln Gln Ser Ser Ile Lys Val Glu Asp Ile Gln
 85 90 95
 Met His Asn Tyr Gln Gln His Ser His Leu Pro Pro Gln Ser Glu Glu
 100 105 110
 Met Met Pro His Ser Gly Ser Val Tyr Tyr Lys Pro Ser Ser Pro Pro
 115 120 125
 Thr Pro Thr Thr Pro Gly Phe Gln Val Gln His Ser Pro Met Trp Asp
 130 135 140
 Asp Pro Gly Ser Leu His Asn Phe His Gln Asn Tyr Val Ala Thr Thr
 145 150 155 160
 His Met Ile Glu Gln Arg Lys Thr Pro Val Ser Arg Leu Ser Leu Phe
 165 170 175
 Ser Phe Lys Gln Ser Pro Pro Gly Thr Pro Val Ser Ser Cys Gln Met
 180 185 190
 Arg Phe Asp Gly Pro Leu His Val Pro Met Asn Pro Glu Pro Ala Gly
 195 200 205
 Ser His His Val Val Asp Gly Gln Thr Phe Ala Val Pro Asn Pro Ile
 210 215 220
 Arg Lys Pro Ala Ser Met Gly Phe Pro Gly Leu Gln Ile Gly His Ala
 225 230 235 240
 Ser Gln Leu Leu Asp Thr Gln Val Pro Ser Pro Pro Ser Arg Gly Ser
 245 250 255
 Pro Ser Asn Glu Gly Leu Cys Ala Val Cys Gly Asp Asn Ala Ala Cys
 260 265 270
 Gln His Tyr Gly Val Arg Thr Cys Glu Gly Cys Lys Gly Phe Phe Lys
 275 280 285
 Arg Thr Val Gln Lys Asn Ala Lys Tyr Val Cys Leu Ala Asn Lys Asn
 290 295 300
 Cys Pro Val Asp Lys Arg Arg Arg Asn Arg Cys Gln Tyr Cys Arg Phe
 305 310 315 320
 Gln Lys Cys Leu Ala Val Gly Met Val Lys Glu Val Val Arg Thr Asp
 325 330 335

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Ser Leu Lys Gly Arg Arg Gly Arg Leu Pro Ser Lys Pro Lys Ser Pro
340 345 350
Gln Glu Pro Ser Pro Pro Ser Pro Pro Val Ser Leu Ile Ser Ala Leu
355 360 365
Val Arg Ala His Val Asp Ser Asn Pro Ala Met Thr Ser Leu Asp Tyr
370 375 380
Ser Arg Phe Gln Ala Asn Pro Asp Tyr Gln Met Ser Gly Asp Asp Thr
385 390 395 400
Gln His Ile Gln Gln Phe Tyr Asp Leu Leu Thr Gly Ser Met Glu Ile
405 410 415
Ile Arg Gly Trp Ala Glu Lys Ile Pro Gly Phe Ala Asp Leu Pro Lys
420 425 430
Ala Asp Gln Asp Leu Leu Phe Glu Ser Ala Phe Leu Glu Leu Phe Val
435 440 445
Leu Arg Leu Ala Tyr Arg Ser Asn Pro Val Glu Gly Lys Leu Ile Phe
450 455 460
Cys Asn Gly Val Val Leu His Arg Leu Gln Cys Val Arg Gly Phe Gly
465 470 475 480
Glu Trp Ile Asp Ser Ile Val Glu Phe Ser Ser Asn Leu Gln Asn Met
485 490 495
Asn Ile Asp Ile Ser Ala Phe Ser Cys Ile Ala Ala Leu Ala Met Val
500 505 510
Thr Glu Arg His Gly Leu Lys Glu Pro Lys Arg Val Glu Glu Leu Gln
515 520 525
Asn Lys Ile Val Asn Cys Leu Lys Asp His Val Thr Phe Asn Asn Gly
530 535 540
Gly Leu Asn Arg Pro Asn Tyr Leu Ser Lys Leu Leu Gly Lys Leu Pro
545 550 555 560
Glu Leu Arg Thr Leu Cys Thr Gln Gly Leu Gln Arg Ile Phe Tyr Leu
565 570 575
Lys Leu Glu Asp Leu Val Pro Pro Pro Ala Ile Ile Asp Lys Leu Phe
580 585 590
Leu Asp Thr Leu Pro Phe
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<210> 32
 <211> 272
 <212> PRT
 <213> Homo sapiens

<400> 32

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

Gly Gly Ala Arg Arg Gln Arg Gly Ala Glu Ala Gly Gln Gly Ala Arg
50          55          60

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

Gly Leu Val His Asp Cys Lys Arg Arg Pro Ser Arg Ala Arg Ala Val
          85          90          95

Ser Arg Gly Ala Lys Thr Ala Glu Thr Val Gln Arg Ile Lys Lys Thr
          100          105          110

Arg Arg Leu Lys Ala Asn Asn Arg Glu Arg Asn Arg Met His Asn Leu
          115          120          125

Asn Ala Ala Leu Asp Ala Leu Arg Glu Val Leu Pro Thr Phe Pro Glu
          130          135          140

Asp Ala Lys Leu Thr Lys Ile Glu Thr Leu Arg Phe Ala His Asn Tyr
145          150          155          160

Ile Trp Ala Leu Thr Glu Thr Leu Arg Leu Ala Asp His Cys Gly Gly
          165          170          175

Gly Gly Gly Gly Leu Pro Gly Ala Leu Phe Ser Glu Ala Val Leu Leu
          180          185          190

Ser Pro Gly Gly Ala Ser Ala Ala Leu Ser Ser Ser Gly Asp Ser Pro
          195          200          205

Ser Pro Ala Ser Thr Trp Ser Cys Thr Asn Ser Pro Ala Pro Ser Ser
          210          215          220

Ser Val Ser Ser Asn Ser Thr Ser Pro Tyr Ser Cys Thr Leu Ser Pro
225          230          235          240
    
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Ala Ser Pro Ala Gly Ser Asp Met Asp Tyr Trp Gln Pro Pro Pro Pro
245 250 255

Asp Lys His Arg Tyr Ala Pro His Leu Pro Ile Ala Arg Asp Cys Ile
260 265 270

<210> 33
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<212> PRT
<213> Homo sapiens

<400> 33

Met Leu Asp Gly Leu Lys Met Glu Glu Asn Phe Gln Ser Ala Ile Asp
1 5 10 15

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

Ser Val Cys Glu Gly Cys Gln Arg Val Ile Leu Asp Arg Phe Leu Leu
35 40 45

Arg Leu Asn Asp Ser Phe Trp His Glu Gln Cys Val Gln Cys Ala Ser
50 55 60

Cys Lys Glu Pro Leu Glu Thr Thr Cys Phe Tyr Arg Asp Lys Lys Leu
65 70 75 80

Tyr Cys Lys Tyr Asp Tyr Glu Lys Leu Phe Ala Val Lys Cys Gly Gly
85 90 95

Cys Phe Glu Ala Ile Ala Pro Asn Glu Phe Val Met Arg Ala Gln Lys
100 105 110

Ser Val Tyr His Leu Ser Cys Phe Cys Cys Cys Val Cys Glu Arg Gln
115 120 125

Leu Gln Lys Gly Asp Glu Phe Val Leu Lys Glu Gly Gln Leu Leu Cys
130 135 140

Lys Gly Asp Tyr Glu Lys Glu Arg Glu Leu Leu Ser Leu Val Ser Pro
145 150 155 160

Ala Ala Ser Asp Ser Gly Lys Ser Asp Asp Glu Glu Ser Leu Cys Lys
165 170 175

Ser Ala His Gly Ala Gly Lys Gly Thr Ala Glu Glu Gly Lys Asp His
180 185 190

Lys Arg Pro Lys Arg Pro Arg Thr Ile Leu Thr Thr Gln Gln Arg Arg
195 200 205

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Ala Phe Lys Ala Ser Phe Glu Val Ser Ser Lys Pro Cys Arg Lys Val
210 215 220

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

Val Trp Phe Gln Asn Gln Arg Ala Lys Met Lys Lys Leu Ala Arg Arg
245 250 255

Gln Gln Gln Gln Gln Gln Asp Gln Gln Asn Thr Gln Arg Leu Ser Ser
260 265 270

Ala Gln Thr Asn Gly Gly Gly Ser Ala Gly Met Glu Gly Ile Met Asn
275 280 285

Pro Tyr Thr Ala Leu Pro Thr Pro Gln Gln Leu Leu Ala Ile Glu Gln
290 295 300

Ser Val Tyr Ser Ser Asp Pro Phe Arg Gln Gly Leu Thr Pro Pro Gln
305 310 315 320

Met Pro Gly Asp His Met His Pro Tyr Gly Ala Glu Pro Leu Phe His
325 330 335

Asp Leu Asp Ser Asp Asp Thr Ser Leu Ser Asn Leu Gly Asp Cys Phe
340 345 350

Leu Ala Thr Ser Glu Ala Gly Pro Leu Gln Ser Arg Val Gly Asn Pro
355 360 365

Ile Asp His Leu Tyr Ser Met Gln Asn Ser Tyr Phe Thr Ser
370 375 380

<210> 34
<211> 400
<212> PRT
<213> Homo sapiens

<400> 34

Met Glu Lys Ser Lys Asn Phe Arg Ile Glu Pro Cys Trp Arg Trp Thr
1 5 10 15

Pro His Glu Pro Pro Leu Ala Glu Arg Ala Leu Ala Lys Val Thr Ser
20 25 30

Pro Pro Val Pro Ala Ser Gly Thr Gly Gly Gly Gly Gly Gly Gly
35 40 45

Ala Ser Gly Gly Thr Ser Gly Ser Cys Ser Pro Ala Ser Ser Glu Pro
50 55 60

Pro Ala Ala Pro Ala Asp Arg Leu Arg Ala Glu Ser Pro Ser Pro Pro
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65	70					75					80				
Arg	Leu	Leu	Ala	Ala 85	His	Cys	Ala	Leu	Leu 90	Pro	Lys	Pro	Gly	Phe 95	Leu
Gly	Ala	Gly	Gly 100	Gly	Gly	Gly	Gly	Thr 105	Gly	Gly	Gly	His	Gly 110	Gly	Pro
His	His	His 115	Ala	His	Pro	Gly	Ala 120	Ala	Ala	Ala	Ala	Ala 125	Ala	Ala	Ala
Ala	Ala 130	Ala	Ala	Ala	Ala	Ala 135	Gly	Gly	Leu	Ala	Leu 140	Gly	Leu	His	Pro
Gly 145	Gly	Ala	Gln	Gly	Gly 150	Ala	Gly	Leu	Pro	Ala 155	Gln	Ala	Ala	Leu	Tyr 160
Gly	His	Pro	Val	Tyr 165	Gly	Tyr	Ser	Ala	Ala 170	Ala	Ala	Ala	Ala	Ala 175	Leu
Ala	Gly	Gln	His 180	Pro	Ala	Leu	Ser	Tyr 185	Ser	Tyr	Pro	Gln	Val 190	Gln	Gly
Ala	His	Pro 195	Ala	His	Pro	Ala	Asp 200	Pro	Ile	Lys	Leu	Gly 205	Ala	Gly	Thr
Phe	Gln 210	Leu	Asp	Gln	Trp	Leu 215	Arg	Ala	Thr	Ala	Gly 220	Met	Ile	Leu	Pro
Lys 225	Met	Pro	Asp	Phe	Asn 230	Ser	Gln	Ala	Gln	Ser 235	Asn	Leu	Leu	Gly	Lys 240
Cys	Arg	Arg	Pro	Arg 245	Thr	Ala	Phe	Thr	Ser 250	Gln	Gln	Leu	Leu	Glu 255	Leu
Glu	His	Gln	Phe 260	Lys	Phe	Asn	Lys	Tyr 265	Leu	Ser	Arg	Pro	Lys 270	Arg	Phe
Glu	Val	Ala 275	Thr	Ser	Leu	Met	Leu 280	Thr	Glu	Thr	Gln	Val 285	Lys	Ile	Trp
Phe	Gln 290	Asn	Arg	Arg	Met	Lys 295	Trp	Lys	Arg	Ser	Lys 300	Lys	Ala	Lys	Glu
Gln 305	Ala	Ala	Gln	Glu	Ala 310	Glu	Lys	Gln	Lys	Gly 315	Gly	Gly	Gly	Gly	Ala 320
Gly	Lys	Gly	Gly	Ala 325	Glu	Glu	Pro	Gly	Ala 330	Glu	Glu	Leu	Leu	Gly 335	Pro
Pro	Ala	Pro	Arg	Asp	Lys	Gly	Ser	Gly	Pro	Pro	Ala	Asp	Leu	Arg	Asp

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340

345

350

Ser Asp Pro Glu Glu Asp Glu Asp Glu Asp Asp Glu Asp His Phe Pro
 355 360 365

Tyr Ser Asn Gly Ala Ser Val His Ala Ala Ser Ser Asp Cys Ser Ser
 370 375 380

Glu Asp Asp Ser Pro Pro Pro Arg Pro Ser His Gln Pro Ala Pro Gln
 385 390 395 400

<210> 35
 <211> 397
 <212> PRT
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<400> 35

Met Leu Leu Glu Thr Gly Leu Glu Arg Asp Arg Ala Arg Pro Gly Ala
 1 5 10 15

Ala Ala Val Cys Thr Leu Gly Gly Thr Arg Glu Ile Pro Leu Cys Ala
 20 25 30

Gly Cys Asp Gln His Ile Leu Asp Arg Phe Ile Leu Lys Ala Leu Asp
 35 40 45

Arg His Trp His Ser Lys Cys Leu Lys Cys Ser Asp Cys His Thr Pro
 50 55 60

Leu Ala Glu Arg Cys Phe Ser Arg Gly Glu Ser Val Tyr Cys Lys Asp
 65 70 75 80

Asp Phe Phe Lys Arg Phe Gly Thr Lys Cys Ala Ala Cys Gln Leu Gly
 85 90 95

Ile Pro Pro Thr Gln Val Val Arg Arg Ala Gln Asp Phe Val Tyr His
 100 105 110

Leu His Cys Phe Ala Cys Val Val Cys Lys Arg Gln Leu Ala Thr Gly
 115 120 125

Asp Glu Phe Tyr Leu Met Glu Asp Ser Arg Leu Val Cys Lys Ala Asp
 130 135 140

Tyr Glu Thr Ala Lys Gln Arg Glu Ala Glu Ala Thr Ala Lys Arg Pro
 145 150 155 160

Arg Thr Thr Ile Thr Ala Lys Gln Leu Glu Thr Leu Lys Ser Ala Tyr
 165 170 175

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

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Glu Thr Gly Leu Asp Met Arg Val Val Gln Val Trp Phe Gln Asn Arg
 195 200 205
 Arg Ala Lys Glu Lys Arg Leu Lys Lys Asp Ala Gly Arg Gln Arg Trp
 210 215 220
 Gly Gln Tyr Phe Arg Asn Met Lys Arg Ser Arg Gly Gly Ser Lys Ser
 225 230 235 240
 Asp Lys Asp Ser Val Gln Glu Gly Gln Asp Ser Asp Ala Glu Val Ser
 245 250 255
 Phe Pro Asp Glu Pro Ser Leu Ala Glu Met Gly Pro Ala Asn Gly Leu
 260 265 270
 Tyr Gly Ser Leu Gly Glu Pro Thr Gln Ala Leu Gly Arg Pro Ser Gly
 275 280 285
 Ala Leu Gly Asn Phe Ser Leu Glu His Gly Gly Leu Ala Gly Pro Glu
 290 295 300
 Gln Tyr Arg Glu Leu Arg Pro Gly Ser Pro Tyr Gly Val Pro Pro Ser
 305 310 315 320
 Pro Ala Ala Pro Gln Ser Leu Pro Gly Pro Gln Pro Leu Leu Ser Ser
 325 330 335
 Leu Val Tyr Pro Asp Thr Ser Leu Gly Leu Val Pro Ser Gly Ala Pro
 340 345 350
 Gly Gly Pro Pro Pro Met Arg Val Leu Ala Gly Asn Gly Pro Ser Ser
 355 360 365
 Asp Leu Ser Thr Gly Ser Ser Gly Gly Tyr Pro Asp Phe Pro Ala Ser
 370 375 380
 Pro Ala Ser Trp Leu Asp Glu Val Asp His Ala Gln Phe
 385 390 395

<210> 36
 <211> 328
 <212> PRT
 <213> Homo sapiens

<400> 36

Met Thr Gly Val Phe Asp Ser Leu Val Ala Asp Met His Ser Thr Gln
 1 5 10 15
 Ile Ala Ala Ser Ser Thr Tyr His Gln His Gln Gln Pro Pro Ser Gly
 20 25 30

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Gly Gly Ala Gly Pro Gly Gly Asn Ser Ser Ser Ser Ser Ser Leu His
35 40 45

Lys Pro Gln Glu Ser Pro Thr Leu Pro Val Ser Thr Ala Thr Asp Ser
50 55 60

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

Gly Ser Pro Tyr Ala His Met Gly Ser Tyr Gln Tyr Gln Ala Ser Gly
85 90 95

Leu Asn Asn Val Pro Tyr Ser Ala Lys Ser Ser Tyr Asp Leu Gly Tyr
100 105 110

Thr Ala Ala Tyr Thr Ser Tyr Ala Pro Tyr Gly Thr Ser Ser Ser Pro
115 120 125

Ala Asn Asn Glu Pro Glu Lys Glu Asp Leu Glu Pro Glu Ile Arg Ile
130 135 140

Val Asn Gly Lys Pro Lys Lys Val Arg Lys Pro Arg Thr Ile Tyr Ser
145 150 155 160

Ser Phe Gln Leu Ala Ala Leu Gln Arg Arg Phe Gln Lys Thr Gln Tyr
165 170 175

Leu Ala Leu Pro Glu Arg Ala Glu Leu Ala Ala Ser Leu Gly Leu Thr
180 185 190

Gln Thr Gln Val Lys Ile Trp Phe Gln Asn Arg Arg Ser Lys Phe Lys
195 200 205

Lys Met Trp Lys Ser Gly Glu Ile Pro Ser Glu Gln His Pro Gly Ala
210 215 220

Ser Ala Ser Pro Pro Cys Ala Ser Pro Pro Val Ser Ala Pro Ala Ser
225 230 235 240

Trp Asp Phe Gly Val Pro Gln Arg Met Ala Gly Gly Gly Gly Pro Gly
245 250 255

Ser Gly Gly Ser Gly Ala Gly Ser Ser Gly Ser Ser Pro Ser Ser Ala
260 265 270

Ala Ser Ala Phe Leu Gly Asn Tyr Pro Trp Tyr His Gln Thr Ser Gly
275 280 285

Ser Ala Ser His Leu Gln Ala Thr Ala Pro Leu Leu His Pro Thr Gln
290 295 300

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Thr Pro Gln Pro His His His His His His His Gly Gly Gly Gly Ala
305 310 315 320

Pro Val Ser Ala Gly Thr Ile Phe
325

<210> 37
<211> 521
<212> PRT
<213> Homo sapiens
<400> 37

Met Ala Ser Asn Ser Leu Phe Ser Thr Val Thr Pro Cys Gln Gln Asn
1 5 10 15

Phe Phe Trp Asp Pro Ser Thr Ser Arg Arg Phe Ser Pro Pro Ser Ser
20 25 30

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

Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
50 55 60

Gln Gln Gln Gln Gln Gln Gln Glu Ala Ala Ala Ala Ala Ala Ala Ala
65 70 75 80

Ala Ala Ala Ala Ala Ala Ala Ala Ala Val Pro Arg Leu Arg Pro Pro
85 90 95

His Asp Asn Arg Thr Met Val Glu Ile Ile Ala Asp His Pro Ala Glu
100 105 110

Leu Val Arg Thr Asp Ser Pro Asn Phe Leu Cys Ser Val Leu Pro Ser
115 120 125

His Trp Arg Cys Asn Lys Thr Leu Pro Val Ala Phe Lys Val Val Ala
130 135 140

Leu Gly Glu Val Pro Asp Gly Thr Val Val Thr Val Met Ala Gly Asn
145 150 155 160

Asp Glu Asn Tyr Ser Ala Glu Leu Arg Asn Ala Ser Ala Val Met Lys
165 170 175

Asn Gln Val Ala Arg Phe Asn Asp Leu Arg Phe Val Gly Arg Ser Gly
180 185 190

Arg Gly Lys Ser Phe Thr Leu Thr Ile Thr Val Phe Thr Asn Pro Pro
195 200 205

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Gln Val Ala Thr Tyr His Arg Ala Ile Lys Val Thr Val Asp Gly Pro
210 215 220

Arg Glu Pro Arg Arg His Arg Gln Lys Leu Asp Asp Ser Lys Pro Ser
225 230 235 240

Leu Phe Ser Asp Arg Leu Ser Asp Leu Gly Arg Ile Pro His Pro Ser
245 250 255

Met Arg Val Gly Val Pro Pro Gln Asn Pro Arg Pro Ser Leu Asn Ser
260 265 270

Ala Pro Ser Pro Phe Asn Pro Gln Gly Gln Ser Gln Ile Thr Asp Pro
275 280 285

Arg Gln Ala Gln Ser Ser Pro Pro Trp Ser Tyr Asp Gln Ser Tyr Pro
290 295 300

Ser Tyr Leu Ser Gln Met Thr Ser Pro Ser Ile His Ser Thr Thr Pro
305 310 315 320

Leu Ser Ser Thr Arg Gly Thr Gly Leu Pro Ala Ile Thr Asp Val Pro
325 330 335

Arg Arg Ile Ser Asp Asp Asp Thr Ala Thr Ser Asp Phe Cys Leu Trp
340 345 350

Pro Ser Thr Leu Ser Lys Lys Ser Gln Ala Gly Ala Ser Glu Leu Gly
355 360 365

Pro Phe Ser Asp Pro Arg Gln Phe Pro Ser Ile Ser Ser Leu Thr Glu
370 375 380

Ser Arg Phe Ser Asn Pro Arg Met His Tyr Pro Ala Thr Phe Thr Tyr
385 390 395 400

Thr Pro Pro Val Thr Ser Gly Met Ser Leu Gly Met Ser Ala Thr Thr
405 410 415

His Tyr His Thr Tyr Leu Pro Pro Pro Tyr Pro Gly Ser Ser Gln Ser
420 425 430

Gln Ser Gly Pro Phe Gln Thr Ser Ser Thr Pro Tyr Leu Tyr Tyr Gly
435 440 445

Thr Ser Ser Gly Ser Tyr Gln Phe Pro Met Val Pro Gly Gly Asp Arg
450 455 460

Ser Pro Ser Arg Met Leu Pro Pro Cys Thr Thr Thr Ser Asn Gly Ser
465 470 475 480

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Thr Leu Leu Asn Pro Asn Leu Pro Asn Gln Asn Asp Gly Val Asp Ala
485 490 495

Asp Gly Ser His Ser Ser Ser Pro Thr Val Leu Asn Ser Ser Gly Arg
500 505 510

Met Asp Glu Ser Val Trp Arg Pro Tyr
515 520

<210> 38
<211> 763
<212> PRT
<213> Homo sapiens

<400> 38

Met Leu Thr Asp Pro Asp Leu Pro Gln Glu Phe Glu Arg Met Ser Ser
1 5 10 15

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

Val Thr Ser Arg Gln Lys Val Glu Glu Glu Glu Ser Asp Gly Leu Pro
35 40 45

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

Glu Glu Phe Gln Pro Val Ser Leu Leu Thr Gln Glu Thr Cys Gly His
65 70 75 80

Arg Thr Pro Thr Ser Gln His Asn Thr Met Glu Val Asp Gly Asn Lys
85 90 95

Val Met Ser Ser Phe Ala Pro His Asn Ser Ser Thr Ser Pro Gln Lys
100 105 110

Ala Glu Glu Gly Gly Arg Gln Ser Gly Glu Ser Leu Ser Ser Thr Ala
115 120 125

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

Thr Leu Lys Gln Arg Lys Met Glu Glu Leu Ile Lys Asn Glu Pro Glu
145 150 155 160

Glu Thr Pro Ser Ile Glu Lys Leu Leu Ser Lys Asp Trp Lys Asp Lys
165 170 175

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

Glu Ser Leu Ala Glu Lys Glu Arg Gln Leu Met Gly Met Ile Asn Gln

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195

200

205

Leu Thr Ser Leu Arg Glu Gln Leu Leu Ala Ala His Asp Glu Gln Lys
210 215 220

Lys Leu Ala Ala Ser Gln Ile Glu Lys Gln Arg Gln Gln Met Glu Leu
225 230 235 240

Ala Lys Gln Gln Gln Glu Gln Ile Ala Arg Gln Gln Gln Gln Leu Leu
245 250 255

Gln Gln Gln His Lys Ile Asn Leu Leu Gln Gln Gln Ile Gln Val Gln
260 265 270

Gly Gln Leu Pro Pro Leu Met Ile Pro Val Phe Pro Pro Asp Gln Arg
275 280 285

Thr Leu Ala Ala Ala Ala Gln Gln Gly Phe Leu Leu Pro Pro Gly Phe
290 295 300

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

Thr Thr Met Ala Ala Ala Ala Ala Ala Thr Pro Gly Leu Gly Pro Leu
325 330 335

Gln Leu Gln Gln Leu Tyr Ala Ala Gln Leu Ala Ala Met Gln Val Ser
340 345 350

Pro Gly Gly Lys Leu Pro Gly Ile Pro Gln Gly Asn Leu Gly Ala Ala
355 360 365

Val Ser Pro Thr Ser Ile His Thr Asp Lys Ser Thr Asn Ser Pro Pro
370 375 380

Pro Lys Ser Lys Asp Glu Val Ala Gln Pro Leu Asn Leu Ser Ala Lys
385 390 395 400

Pro Lys Thr Ser Asp Gly Lys Ser Pro Thr Ser Pro Thr Ser Pro His
405 410 415

Met Pro Ala Leu Arg Ile Asn Ser Gly Ala Gly Pro Leu Lys Ala Ser
420 425 430

Val Pro Ala Ala Leu Ala Ser Pro Ser Ala Arg Val Ser Thr Ile Gly
435 440 445

Tyr Leu Asn Asp His Asp Ala Val Thr Lys Ala Ile Gln Glu Ala Arg
450 455 460

Gln Met Lys Glu Gln Leu Arg Arg Glu Gln Gln Val Leu Asp Gly Lys

465 WAY10252sequencelistingST25 470 475 480

Val Ala Val Val Asn Ser Leu Gly Leu Asn Asn Cys Arg Thr Glu Lys
485 490 495

Glu Lys Thr Thr Leu Glu Ser Leu Thr Gln Gln Leu Ala Val Lys Gln
500 505 510

Asn Glu Glu Gly Lys Phe Ser His Ala Met Met Asp Phe Asn Leu Ser
515 520 525

Gly Asp Ser Asp Gly Ser Ala Gly Val Ser Glu Ser Arg Ile Tyr Arg
530 535 540

Glu Ser Arg Gly Arg Gly Ser Asn Glu Pro His Ile Lys Arg Pro Met
545 550 555 560

Asn Ala Phe Met Val Trp Ala Lys Asp Glu Arg Arg Lys Ile Leu Gln
565 570 575

Ala Phe Pro Asp Met His Asn Ser Asn Ile Ser Lys Ile Leu Gly Ser
580 585 590

Arg Trp Lys Ala Met Thr Asn Leu Glu Lys Gln Pro Tyr Tyr Glu Glu
595 600 605

Gln Ala Arg Leu Ser Lys Gln His Leu Glu Lys Tyr Pro Asp Tyr Lys
610 615 620

Tyr Lys Pro Arg Pro Lys Arg Thr Cys Leu Val Asp Gly Lys Lys Leu
625 630 635 640

Arg Ile Gly Glu Tyr Lys Ala Ile Met Arg Asn Arg Arg Gln Glu Met
645 650 655

Arg Gln Tyr Phe Asn Val Gly Gln Gln Ala Gln Ile Pro Ile Ala Thr
660 665 670

Ala Gly Val Val Tyr Pro Gly Ala Ile Ala Met Ala Gly Met Pro Ser
675 680 685

Pro His Leu Pro Ser Glu His Ser Ser Val Ser Ser Ser Pro Glu Pro
690 695 700

Gly Met Pro Val Ile Gln Ser Thr Tyr Gly Val Lys Gly Glu Glu Pro
705 710 715 720

His Ile Lys Glu Glu Ile Gln Ala Glu Asp Ile Asn Gly Glu Ile Tyr
725 730 735

Asp Glu Tyr Asp Glu Glu Glu Asp Asp Pro Asp Val Asp Tyr Gly Ser
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740

745

750

Asp Ser Glu Asn His Ile Ala Gly Gln Ala Asn
 755 760

<210> 39
 <211> 808
 <212> PRT
 <213> Homo sapiens

<400> 39

Met Ser Ser Lys Gln Ala Thr Ser Pro Phe Ala Cys Ala Ala Asp Gly
 1 5 10 15

Glu Asp Ala Met Thr Gln Asp Leu Thr Ser Arg Glu Lys Glu Glu Gly
 20 25 30

Ser Asp Gln His Val Ala Ser His Leu Pro Leu His Pro Ile Met His
 35 40 45

Asn Lys Pro His Ser Glu Glu Leu Pro Thr Leu Val Ser Thr Ile Gln
 50 55 60

Gln Asp Ala Asp Trp Asp Ser Val Leu Ser Ser Gln Gln Arg Met Glu
 65 70 75 80

Ser Glu Asn Asn Lys Leu Cys Ser Leu Tyr Ser Phe Arg Asn Thr Ser
 85 90 95

Thr Ser Pro His Lys Pro Asp Glu Gly Ser Arg Asp Arg Glu Ile Met
 100 105 110

Thr Ser Val Thr Phe Gly Thr Pro Glu Arg Arg Lys Gly Ser Leu Ala
 115 120 125

Asp Val Val Asp Thr Leu Lys Gln Lys Lys Leu Glu Glu Met Thr Arg
 130 135 140

Thr Glu Gln Glu Asp Ser Ser Cys Met Glu Lys Leu Leu Ser Lys Asp
 145 150 155 160

Trp Lys Glu Lys Met Glu Arg Leu Asn Thr Ser Glu Leu Leu Gly Glu
 165 170 175

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

Thr Met Ile Thr Gln Leu Ile Ser Leu Arg Glu Gln Leu Leu Ala Ala
 195 200 205

His Asp Glu Gln Lys Lys Leu Ala Ala Ser Gln Ile Glu Lys Gln Arg
 210 215 220

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Gln Gln Met Asp Leu Ala Arg Gln Gln Gln Glu Gln Ile Ala Arg Gln
 225 230 235 240
 Gln Gln Gln Leu Leu Gln Gln Gln His Lys Ile Asn Leu Leu Gln Gln
 245 250 255
 Gln Ile Gln Val Gln Gly His Met Pro Pro Leu Met Ile Pro Ile Phe
 260 265 270
 Pro His Asp Gln Arg Thr Leu Ala Ala Ala Ala Ala Ala Gln Gln Gly
 275 280 285
 Phe Leu Phe Pro Pro Gly Ile Thr Tyr Lys Pro Gly Asp Asn Tyr Pro
 290 295 300
 Val Gln Phe Ile Pro Ser Thr Met Ala Ala Ala Ala Ala Ser Gly Leu
 305 310 315 320
 Ser Pro Leu Gln Leu Gln Lys Gly His Ala Ser His Pro Gln Ile Asn
 325 330 335
 Gln Arg Leu Lys Gly Leu Ser Asp Arg Phe Gly Arg Asn Leu Asp Thr
 340 345 350
 Phe Glu His Gly Gly Gly His Ser Tyr Asn His Lys Gln Ile Glu Gln
 355 360 365
 Leu Tyr Ala Ala Gln Leu Ala Ser Met Gln Val Ser Pro Gly Ala Lys
 370 375 380
 Met Pro Ser Thr Pro Gln Pro Pro Asn Thr Ala Gly Thr Val Ser Pro
 385 390 395 400
 Thr Gly Ile Lys Asn Glu Lys Arg Gly Thr Ser Pro Val Thr Gln Val
 405 410 415
 Lys Asp Glu Ala Ala Ala Gln Pro Leu Asn Leu Ser Ser Arg Pro Lys
 420 425 430
 Thr Ala Glu Pro Val Lys Ser Pro Thr Ser Pro Thr Gln Asn Leu Phe
 435 440 445
 Pro Ala Ser Lys Thr Ser Pro Val Asn Leu Pro Asn Lys Ser Ser Ile
 450 455 460
 Pro Ser Pro Ile Gly Gly Ser Leu Gly Arg Gly Ser Ser Leu Asp Ile
 465 470 475 480
 Leu Ser Ser Leu Asn Ser Pro Ala Leu Phe Gly Asp Gln Asp Thr Val
 485 490 495

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Met Lys Ala Ile Gln Glu Ala Arg Lys Met Arg Glu Gln Ile Gln Arg
500 505 510

Glu Gln Gln Gln Gln Gln Pro His Gly Val Asp Gly Lys Leu Ser Ser
515 520 525

Ile Asn Asn Met Gly Leu Asn Ser Cys Arg Asn Glu Lys Glu Arg Thr
530 535 540

Arg Phe Glu Asn Leu Gly Pro Gln Leu Thr Gly Lys Ser Asn Glu Asp
545 550 555 560

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

Glu Gly Gly Ala Thr Val Ala Glu Ala Arg Val Tyr Arg Asp Ala Arg
580 585 590

Gly Arg Ala Ser Ser Glu Pro His Ile Lys Arg Pro Met Asn Ala Phe
595 600 605

Met Val Trp Ala Lys Asp Glu Arg Arg Lys Ile Leu Gln Ala Phe Pro
610 615 620

Asp Met His Asn Ser Asn Ile Ser Lys Ile Leu Gly Ser Arg Trp Lys
625 630 635 640

Ser Met Ser Asn Gln Glu Lys Gln Pro Tyr Tyr Glu Glu Gln Ala Arg
645 650 655

Leu Ser Lys Ile His Leu Glu Lys Tyr Pro Asn Tyr Lys Tyr Lys Pro
660 665 670

Arg Pro Lys Arg Thr Cys Ile Val Asp Gly Lys Lys Leu Arg Ile Gly
675 680 685

Glu Tyr Lys Gln Leu Met Arg Ser Arg Arg Gln Glu Met Arg Gln Phe
690 695 700

Phe Thr Val Gly Gln Gln Pro Gln Ile Pro Ile Thr Thr Gly Thr Gly
705 710 715 720

Val Val Tyr Pro Gly Ala Ile Thr Met Ala Thr Thr Thr Pro Ser Pro
725 730 735

Gln Met Thr Ser Asp Cys Ser Ser Thr Ser Ala Ser Pro Glu Pro Ser
740 745 750

Leu Pro Val Ile Gln Ser Thr Tyr Gly Met Lys Thr Asp Gly Gly Ser
755 760 765

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Leu Ala Gly Asn Glu Met Ile Asn Gly Glu Asp Glu Met Glu Met Tyr
770 775 780

Asp Asp Tyr Glu Asp Asp Pro Lys Ser Asp Tyr Ser Ser Glu Asn Glu
785 790 795 800

Ala Pro Glu Ala Val Ser Ala Asn
805

<210> 40
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<213> Homo sapiens
<400> 40

Met Ala Leu Thr Asp Gly Gly Trp Cys Leu Pro Lys Arg Phe Gly Ala
1 5 10 15

Ala Gly Ala Asp Ala Ser Asp Ser Arg Ala Phe Pro Ala Arg Glu Pro
20 25 30

Ser Thr Pro Pro Ser Pro Ile Ser Ser Ser Ser Ser Cys Ser Arg
35 40 45

Gly Gly Glu Arg Gly Pro Gly Gly Ala Ser Asn Cys Gly Thr Pro Gln
50 55 60

Leu Asp Thr Glu Ala Ala Ala Gly Pro Pro Ala Arg Ser Leu Leu Leu
65 70 75 80

Ser Ser Tyr Ala Ser His Pro Phe Gly Ala Pro His Gly Pro Ser Ala
85 90 95

Pro Gly Val Ala Gly Pro Gly Gly Asn Leu Ser Ser Trp Glu Asp Leu
100 105 110

Leu Leu Phe Thr Asp Leu Asp Gln Ala Ala Thr Ala Ser Lys Leu Leu
115 120 125

Trp Ser Ser Arg Gly Ala Lys Leu Ser Pro Phe Ala Pro Glu Gln Pro
130 135 140

Glu Glu Met Tyr Gln Thr Leu Ala Ala Leu Ser Ser Gln Gly Pro Ala
145 150 155 160

Ala Tyr Asp Gly Ala Pro Gly Gly Phe Val His Ser Ala Ala Ala Ala
165 170 175

Ala Ala Ala Ala Ala Ala Ser Ser Pro Val Tyr Val Pro Thr Thr
180 185 190

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Arg Val Gly Ser Met Leu Pro Gly Leu Pro Tyr His Leu Gln Gly Ser
195 200 205

Gly Ser Gly Pro Ala Asn His Ala Gly Gly Ala Gly Ala His Pro Gly
210 215 220

Trp Pro Gln Ala Ser Ala Asp Ser Pro Pro Tyr Gly Ser Gly Gly Gly
225 230 235 240

Ala Ala Gly Gly Gly Ala Ala Gly Pro Gly Gly Ala Gly Ser Ala Ala
245 250 255

Ala His Val Ser Ala Arg Phe Pro Tyr Ser Pro Ser Pro Pro Met Ala
260 265 270

Asn Gly Ala Ala Arg Glu Pro Gly Gly Tyr Ala Ala Ala Gly Ser Gly
275 280 285

Gly Ala Gly Gly Val Ser Gly Gly Gly Ser Ser Leu Ala Ala Met Gly
290 295 300

Gly Arg Glu Pro Gln Tyr Ser Ser Leu Ser Ala Ala Arg Pro Leu Asn
305 310 315 320

Gly Thr Tyr His His His His His His His His His His Pro Ser Pro
325 330 335

Tyr Ser Pro Tyr Val Gly Ala Pro Leu Thr Pro Ala Trp Pro Ala Gly
340 345 350

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

Pro Leu Pro Val Pro Arg Gly Pro Ser Ala Asp Leu Leu Glu Asp Leu
370 375 380

Ser Glu Ser Arg Glu Cys Val Asn Cys Gly Ser Ile Gln Thr Pro Leu
385 390 395 400

Trp Arg Arg Asp Gly Thr Gly His Tyr Leu Cys Asn Ala Cys Gly Leu
405 410 415

Tyr Ser Lys Met Asn Gly Leu Ser Arg Pro Leu Ile Lys Pro Gln Lys
420 425 430

Arg Val Pro Ser Ser Arg Arg Leu Gly Leu Ser Cys Ala Asn Cys His
435 440 445

Thr Thr Thr Thr Thr Leu Trp Arg Arg Asn Ala Glu Gly Glu Pro Val
450 455 460

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Cys Asn Ala Cys Gly Leu Tyr Met Lys Leu His Gly Val Pro Arg Pro
465 470 475 480

Leu Ala Met Lys Lys Glu Gly Ile Gln Thr Arg Lys Arg Lys Pro Lys
485 490 495

Asn Ile Asn Lys Ser Lys Thr Cys Ser Gly Asn Ser Asn Asn Ser Ile
500 505 510

Pro Met Thr Pro Thr Ser Thr Ser Ser Asn Ser Asp Asp Cys Ser Lys
515 520 525

Asn Thr Ser Pro Thr Thr Gln Pro Thr Ala Ser Gly Ala Gly Ala Pro
530 535 540

Val Met Thr Gly Ala Gly Glu Ser Thr Asn Pro Glu Asn Ser Glu Leu
545 550 555 560

Lys Tyr Ser Gly Gln Asp Gly Leu Tyr Ile Gly Val Ser Leu Ala Ser
565 570 575

Pro Ala Glu Val Thr Ser Ser Val Arg Pro Asp Ser Trp Cys Ala Leu
580 585 590

Ala Leu Ala
595

<210> 41
<211> 413
<212> PRT
<213> Homo sapiens

<400> 41

Met Glu Phe Pro Gly Leu Gly Ser Leu Gly Thr Ser Glu Pro Leu Pro
1 5 10 15

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

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

Ala Pro Ser Thr Ala Thr Ala Ala Ala Ala Ala Leu Ala Tyr Tyr Arg
50 55 60

Asp Ala Glu Ala Tyr Arg His Ser Pro Val Phe Gln Val Tyr Pro Leu
65 70 75 80

Leu Asn Cys Met Glu Gly Ile Pro Gly Gly Ser Pro Tyr Ala Gly Trp
85 90 95

WAY10252sequencelistingST25

Ala Tyr Gly Lys Thr Gly Leu Tyr Pro Ala Ser Thr Val Cys Pro Thr
100 105 110

Arg Glu Asp Ser Pro Pro Gln Ala Val Glu Asp Leu Asp Gly Lys Gly
115 120 125

Ser Thr Ser Phe Leu Glu Thr Leu Lys Thr Glu Arg Leu Ser Pro Asp
130 135 140

Leu Leu Thr Leu Gly Pro Ala Leu Pro Ser Ser Leu Pro Val Pro Asn
145 150 155 160

Ser Ala Tyr Gly Gly Pro Asp Phe Ser Ser Thr Phe Phe Ser Pro Thr
165 170 175

Gly Ser Pro Leu Asn Ser Ala Ala Tyr Ser Ser Pro Lys Leu Arg Gly
180 185 190

Thr Leu Pro Leu Pro Pro Cys Glu Ala Arg Glu Cys Val Asn Cys Gly
195 200 205

Ala Thr Ala Thr Pro Leu Trp Arg Arg Asp Arg Thr Gly His Tyr Leu
210 215 220

Cys Asn Ala Cys Gly Leu Tyr His Lys Met Asn Gly Gln Asn Arg Pro
225 230 235 240

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

Gln Cys Thr Asn Cys Gln Thr Thr Thr Thr Thr Leu Trp Arg Arg Asn
260 265 270

Ala Ser Gly Asp Pro Val Cys Asn Ala Cys Gly Leu Tyr Tyr Lys Leu
275 280 285

His Gln Val Asn Arg Pro Leu Thr Met Arg Lys Asp Gly Ile Gln Thr
290 295 300

Arg Asn Arg Lys Ala Ser Gly Lys Gly Lys Lys Lys Arg Gly Ser Ser
305 310 315 320

Leu Gly Gly Thr Gly Ala Ala Glu Gly Pro Ala Gly Gly Phe Met Val
325 330 335

Val Ala Gly Gly Ser Gly Ser Gly Asn Cys Gly Glu Val Ala Ser Gly
340 345 350

Leu Thr Leu Gly Pro Pro Gly Thr Ala His Leu Tyr Gln Gly Leu Gly
355 360 365

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Pro Val Val Leu Ser Gly Pro Val Ser His Leu Met Pro Phe Pro Gly
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Pro Leu Leu Gly Ser Pro Thr Gly Ser Phe Pro Thr Gly Pro Met Pro
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Pro Thr Thr Ser Thr Thr Val Val Ala Pro Leu Ser Ser
405 410

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<212> PRT
<213> Homo sapiens

<400> 42

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35 40 45

Asn Pro Leu Pro Pro Gln Gln Glu Trp Ile Asn Gln Pro Val Arg Val
50 55 60

Asn Val Lys Arg Glu Tyr Asp His Met Asn Gly Ser Arg Glu Ser Pro
65 70 75 80

Val Asp Cys Ser Val Ser Lys Cys Ser Lys Leu Val Gly Gly Gly Glu
85 90 95

Ser Asn Pro Met Asn Tyr Asn Ser Tyr Met Asp Glu Lys Asn Gly Pro
100 105 110

Pro Pro Pro Asn Met Thr Thr Asn Glu Arg Arg Val Ile Val Pro Ala
115 120 125

Asp Pro Thr Leu Trp Thr Gln Glu His Val Arg Gln Trp Leu Glu Trp
130 135 140

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

Asn Met Asp Gly Lys Glu Leu Cys Lys Met Asn Lys Glu Asp Phe Leu
165 170 175

Arg Ala Thr Thr Leu Tyr Asn Thr Glu Val Leu Leu Ser His Leu Ser
180 185 190

Tyr Leu Arg Glu Ser Ser Leu Leu Ala Tyr Asn Thr Thr Ser His Thr
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WAY10252sequencelistingST25
200 205

195

Asp Gln Ser Ser Arg Leu Ser Val Lys Glu Asp Pro Ser Tyr Asp Ser
210 215 220

Val Arg Arg Gly Ala Trp Gly Asn Asn Met Asn Ser Gly Leu Asn Lys
225 230 235 240

Ser Pro Pro Leu Gly Gly Ala Gln Thr Ile Ser Lys Asn Thr Glu Gln
245 250 255

Arg Pro Gln Pro Asp Pro Tyr Gln Ile Leu Gly Pro Thr Ser Ser Arg
260 265 270

Leu Ala Asn Pro Gly Ser Gly Gln Ile Gln Leu Trp Gln Phe Leu Leu
275 280 285

Glu Leu Leu Ser Asp Ser Ala Asn Ala Ser Cys Ile Thr Trp Glu Gly
290 295 300

Thr Asn Gly Glu Phe Lys Met Thr Asp Pro Asp Glu Val Ala Arg Arg
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Trp Gly Glu Arg Lys Ser Lys Pro Asn Met Asn Tyr Asp Lys Leu Ser
325 330 335

Arg Ala Leu Arg Tyr Tyr Tyr Asp Lys Asn Ile Met Thr Lys Val His
340 345 350

Gly Lys Arg Tyr Ala Tyr Lys Phe Asp Phe His Gly Ile Ala Gln Ala
355 360 365

Leu Gln Pro His Pro Thr Glu Ser Ser Met Tyr Lys Tyr Pro Ser Asp
370 375 380

Ile Ser Tyr Met Pro Ser Tyr His Ala His Gln Gln Lys Val Asn Phe
385 390 395 400

Val Pro Pro His Pro Ser Ser Met Pro Val Thr Ser Ser Ser Phe Phe
405 410 415

Gly Ala Ala Ser Gln Tyr Trp Thr Ser Pro Thr Gly Gly Ile Tyr Pro
420 425 430

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Gly Ser Tyr Tyr
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WAY10252sequencelistingST25

<211> 362
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 35 40 45
 Pro Pro Leu His Val Lys Ser Glu Asp Gln Pro Gly Glu Glu Glu Asp
 50 55 60
 Asp Glu Arg Gly Ala Asp Ala Thr Trp Asp Leu Asp Leu Leu Leu Thr
 65 70 75 80
 Asn Phe Ser Gly Pro Glu Pro Gly Gly Ala Pro Gln Thr Cys Ala Leu
 85 90 95
 Ala Pro Ser Glu Ala Ser Gly Ala Gln Tyr Pro Pro Pro Pro Glu Thr
 100 105 110
 Leu Gly Ala Tyr Ala Gly Gly Pro Gly Leu Val Ala Gly Leu Leu Gly
 115 120 125
 Ser Glu Asp His Ser Gly Trp Val Arg Pro Ala Leu Arg Ala Arg Ala
 130 135 140
 Pro Asp Ala Phe Val Gly Pro Ala Leu Ala Pro Ala Pro Ala Pro Glu
 145 150 155 160
 Pro Lys Ala Leu Ala Leu Gln Pro Val Tyr Pro Gly Pro Gly Ala Gly
 165 170 175
 Ser Ser Gly Gly Tyr Phe Pro Arg Thr Gly Leu Ser Val Pro Ala Ala
 180 185 190
 Ser Gly Ala Pro Tyr Gly Leu Leu Ser Gly Tyr Pro Ala Met Tyr Pro
 195 200 205
 Ala Pro Gln Tyr Gln Gly His Phe Gln Leu Phe Arg Gly Leu Gln Gly
 210 215 220
 Pro Ala Pro Gly Pro Ala Thr Ser Pro Ser Phe Leu Ser Cys Leu Gly
 225 230 235 240
 Pro Gly Thr Val Gly Thr Gly Leu Gly Gly Thr Ala Glu Asp Pro Gly
 245 250 255

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Val Ile Ala Glu Thr Ala Pro Ser Lys Arg Gly Arg Arg Ser Trp Ala
 260 265 270
 Arg Lys Arg Gln Ala Ala His Thr Cys Ala His Pro Gly Cys Gly Lys
 275 280 285
 Ser Tyr Thr Lys Ser Ser His Leu Lys Ala His Leu Arg Thr His Thr
 290 295 300
 Gly Glu Lys Pro Tyr Ala Cys Thr Trp Glu Gly Cys Gly Trp Arg Phe
 305 310 315 320
 Ala Arg Ser Asp Glu Leu Thr Arg His Tyr Arg Lys His Thr Gly Gln
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 35 40 45
 Arg Leu Met His Val Gly Ala Leu Leu Lys Pro Glu Glu His Ser His
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 Phe Pro Ala Ala Val His Pro Ala Pro Gly Ala Arg Glu Asp Glu His
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 Val Arg Ala Pro Ser Gly His His Gln Ala Gly Arg Cys Leu Leu Trp
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 Ala Cys Lys Ala Cys Lys Arg Lys Thr Thr Asn Ala Asp Arg Arg Lys
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 Ala Ala Thr Met Arg Glu Arg Arg Arg Leu Ser Lys Val Asn Glu Ala
 115 120 125

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Phe Glu Thr Leu Lys Arg Cys Thr Ser Ser Asn Pro Asn Gln Arg Leu
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 Pro Lys Val Glu Ile Leu Arg Asn Ala Ile Arg Tyr Ile Glu Gly Leu
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 Gln Ala Leu Leu Arg Asp Gln Asp Ala Ala Pro Pro Gly Ala Ala Ala
 165 170 175
 Phe Tyr Ala Pro Gly Pro Leu Pro Pro Gly Arg Gly Gly Glu His Tyr
 180 185 190
 Ser Gly Asp Ser Asp Ala Ser Ser Pro Arg Ser Asn Cys Ser Asp Gly
 195 200 205
 Met Met Asp Tyr Ser Gly Pro Pro Ser Gly Ala Arg Arg Arg Asn Cys
 210 215 220
 Tyr Glu Gly Ala Tyr Tyr Asn Glu Ala Pro Ser Glu Pro Arg Pro Gly
 225 230 235 240
 Lys Ser Ala Ala Val Ser Ser Leu Asp Tyr Leu Ser Ser Ile Val Glu
 245 250 255
 Arg Ile Ser Thr Glu Ser Pro Ala Ala Pro Ala Leu Leu Leu Ala Asp
 260 265 270
 Val Pro Ser Glu Ser Pro Pro Arg Arg Gln Glu Ala Ala Ala Pro Ser
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 Ala Met Ala Leu Pro Arg Thr Leu Gly Glu Leu Gln Leu Tyr Arg Val
 35 40 45

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 Gly Gly Asp Asp Val Gln Gln Leu Cys Glu Ala Gly Glu Glu Glu Phe
 65 70 75 80
 Leu Glu Ile Met Ala Leu Val Gly Met Ala Thr Lys Pro Leu His Val
 85 90 95
 Arg Arg Leu Gln Lys Ala Leu Arg Glu Trp Ala Thr Asn Pro Gly Leu
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 Phe Ser Gln Pro Val Pro Ala Val Pro Val Ser Ser Ile Pro Leu Phe
 115 120 125
 Lys Ile Ser Glu Thr Ala Gly Thr Arg Lys Gly Ser Met Ser Asn Gly
 130 135 140
 His Gly Ser Pro Gly Glu Lys Ala Gly Ser Ala Arg Ser Phe Ser Pro
 145 150 155 160
 Lys Ser Pro Leu Glu Leu Gly Glu Lys Leu Ser Pro Leu Pro Gly Gly
 165 170 175
 Pro Gly Ala Gly Asp Pro Arg Ile Trp Pro Gly Arg Ser Thr Pro Glu
 180 185 190
 Ser Asp Val Gly Ala Gly Gly Glu Glu Glu Ala Gly Ser Pro Pro Phe
 195 200 205
 Ser Pro Pro Ala Gly Gly Gly Val Pro Glu Gly Thr Gly Ala Gly Gly
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 Leu Ala Ala Gly Gly Thr Gly Gly Gly Pro Asp Arg Leu Glu Pro Glu
 225 230 235 240
 Met Val Arg Met Val Val Glu Ser Val Glu Arg Ile Phe Arg Ser Phe
 245 250 255
 Pro Arg Gly Asp Ala Gly Glu Val Thr Ser Leu Leu Lys Leu Asn Lys
 260 265 270
 Lys Leu Ala Arg Ser Val Gly His Ile Phe Glu Met Asp Asp Asn Asp
 275 280 285
 Ser Gln Lys Glu Glu Glu Ile Arg Lys Tyr Ser Ile Ile Tyr Gly Arg
 290 295 300
 Phe Asp Ser Lys Arg Arg Glu Gly Lys Gln Leu Ser Leu His Glu Leu
 305 310 315 320

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Thr Ile Asn Glu Ala Ala Ala Gln Phe Cys Met Arg Asp Asn Thr Leu
325 330 335

Leu Leu Arg Arg Val Glu Leu Phe Ser Leu Ser Arg Gln Val Ala Arg
340 345 350

Glu Ser Thr Tyr Leu Ser Ser Leu Lys Gly Ser Arg Leu His Pro Glu
355 360 365

Glu Leu Gly Gly Pro Pro Leu Lys Lys Leu Lys Gln Glu Val Gly Glu
370 375 380

Gln Ser His Pro Glu Ile Gln Gln Pro Pro Pro Gly Pro Glu Ser Tyr
385 390 395 400

Val Pro Pro Tyr Arg Pro Ser Leu Glu Glu Asp Ser Ala Ser Leu Ser
405 410 415

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

Leu Thr Pro Pro Pro Ala Asp Leu Pro Leu Ala Leu Pro Ala His Gly
435 440 445

Leu Trp Ser Arg His Ile Leu Gln Gln Thr Leu Met Asp Glu Gly Leu
450 455 460

Arg Leu Ala Arg Leu Val Ser His Asp Arg Val Gly Arg Leu Ser Pro
465 470 475 480

Cys Val Pro Ala Lys Pro Pro Leu Ala Glu Phe Glu Glu Gly Leu Leu
485 490 495

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500 505 510

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<210> 46
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<212> PRT
<213> Homo sapiens

<400> 46

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Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe

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35

40

45

Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser
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Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro
85 90 95
Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn
100 105 110
Glu Lys Val Leu Val Glu Thr Ser Tyr Pro Ser Gln Thr Thr Arg Leu
115 120 125
Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn
130 135 140
Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly
145 150 155 160
Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser
165 170 175
Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys
180 185 190
Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr
195 200 205
Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala
210 215 220
Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr
225 230 235 240
Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu
245 250 255
Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys
260 265 270
Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro
275 280 285
Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu
290 295 300
Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg
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305 310 315 320
 Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg
 325 330 335
 Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser
 340 345 350
 Asp Glu Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe
 355 360 365
 Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His Leu Thr
 370 375 380
 Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile
 385 390 395 400
 Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Arg Lys Arg His Thr Lys
 405 410 415
 Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys Ser Val Val Ala
 420 425 430
 Ser Ser Ala Thr Ser Ser Leu Ser Ser Tyr Pro Ser Pro Val Ala Thr
 435 440 445
 Ser Tyr Pro Ser Pro Val Thr Thr Ser Tyr Pro Ser Pro Ala Thr Thr
 450 455 460
 Ser Tyr Pro Ser Pro Val Pro Thr Ser Phe Ser Ser Pro Gly Ser Ser
 465 470 475 480
 Thr Tyr Pro Ser Pro Val His Ser Gly Phe Pro Ser Pro Ser Val Ala
 485 490 495
 Thr Thr Tyr Ser Ser Val Pro Pro Ala Phe Pro Ala Gln Val Ser Ser
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 Phe Pro Ser Ser Ala Val Thr Asn Ser Phe Ser Ala Ser Thr Gly Leu
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 <212> PRT
 <213> Homo sapiens

<400> 47

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Pro Ala Pro Ser Arg Ala Asp Ser Thr Ser Asn Ala Gly Gly Ala Lys
35 40 45

Ala Glu Pro Arg Asp Arg Leu Ser Pro Glu Ser Gln Leu Thr Glu Ala
50 55 60

Pro Asp Arg Ala Ser Ala Ser Pro Asp Ser Cys Glu Gly Ser Val Cys
65 70 75 80

Glu Arg Ser Ser Glu Phe Glu Asp Phe Trp Arg Pro Pro Ser Pro Ser
85 90 95

Ala Ser Pro Ala Ser Glu Lys Ser Met Cys Pro Ser Leu Asp Glu Ala
100 105 110

Gln Pro Phe Pro Leu Pro Phe Lys Pro Tyr Ser Trp Ser Gly Leu Ala
115 120 125

Gly Ser Asp Leu Arg His Leu Val Gln Ser Tyr Arg Pro Cys Gly Ala
130 135 140

Leu Glu Arg Gly Ala Gly Leu Gly Leu Phe Cys Glu Pro Ala Pro Glu
145 150 155 160

Pro Gly His Pro Ala Ala Leu Tyr Gly Pro Lys Arg Ala Ala Gly Gly
165 170 175

Ala Gly Ala Gly Ala Pro Gly Ser Cys Ser Ala Gly Ala Gly Ala Thr
180 185 190

Ala Gly Pro Gly Leu Gly Leu Tyr Gly Asp Phe Gly Ser Ala Ala Ala
195 200 205

Gly Leu Tyr Glu Arg Pro Thr Ala Ala Ala Gly Leu Leu Tyr Pro Glu
210 215 220

Arg Gly His Gly Leu His Ala Asp Lys Gly Ala Gly Val Lys Val Glu
225 230 235 240

Ser Glu Leu Leu Cys Thr Arg Leu Leu Leu Gly Gly Gly Ser Tyr Lys
245 250 255

Cys Ile Lys Cys Ser Lys Val Phe Ser Thr Pro His Gly Leu Glu Val
260 265 270

His Val Arg Arg Ser His Ser Gly Thr Arg Pro Phe Ala Cys Glu Met
275 280 285

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Cys Gly Lys Thr Phe Gly His Ala Val Ser Leu Glu Gln His Lys Ala
 290 295 300

Val His Ser Gln Glu Arg Ser Phe Asp Cys Lys Ile Cys Gly Lys Ser
 305 310 315 320

Phe Lys Arg Ser Ser Thr Leu Ser Thr His Leu Leu Ile His Ser Asp
 325 330 335

Thr Arg Pro Tyr Pro Cys Gln Tyr Cys Gly Lys Arg Phe His Gln Lys
 340 345 350

Ser Asp Met Lys Lys His Thr Phe Ile His Thr Gly Glu Lys Pro His
 355 360 365

Lys Cys Gln Val Cys Gly Lys Ala Phe Ser Gln Ser Ser Asn Leu Ile
 370 375 380

Thr His Ser Arg Lys His Thr Gly Phe Lys Pro Phe Gly Cys Asp Leu
 385 390 395 400

Cys Gly Lys Gly Phe Gln Arg Lys Val Asp Leu Arg Arg His Arg Glu
 405 410 415

Thr Gln His Gly Leu Lys
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<210> 48
 <211> 391
 <212> PRT
 <213> Homo sapiens

<400> 48

Met Asp Leu Glu Lys Asn Tyr Pro Thr Pro Arg Thr Ser Arg Thr Gly
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 20 25 30

Leu Pro Asp Val Val Arg Gln Arg Ile Val Glu Leu Ala His Gln Gly
 35 40 45

Val Arg Pro Cys Asp Ile Ser Arg Gln Leu Arg Val Ser His Gly Cys
 50 55 60

Val Ser Lys Ile Leu Gly Arg Tyr Tyr Glu Thr Gly Ser Ile Lys Pro
 65 70 75 80

Gly Val Ile Gly Gly Ser Lys Pro Lys Val Ala Thr Pro Lys Val Val
 85 90 95

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Glu Lys Ile Ala Glu Tyr Lys Arg Gln Asn Pro Thr Met Phe Ala Trp
 100 105 110
 Glu Ile Arg Asp Arg Leu Leu Ala Glu Arg Val Cys Asp Asn Asp Thr
 115 120 125
 Val Pro Ser Val Ser Ser Ile Asn Arg Ile Ile Arg Thr Lys Val Gln
 130 135 140
 Gln Pro Pro Asn Gln Pro Val Pro Ala Ser Ser His Ser Ile Val Ser
 145 150 155 160
 Thr Gly Ser Val Thr Gln Val Ser Ser Val Ser Thr Asp Ser Ala Gly
 165 170 175
 Ser Ser Tyr Ser Ile Ser Gly Ile Leu Gly Ile Thr Ser Pro Ser Ala
 180 185 190
 Asp Thr Asn Lys Arg Lys Arg Asp Glu Gly Ile Gln Glu Ser Pro Val
 195 200 205
 Pro Asn Gly His Ser Leu Pro Gly Arg Asp Phe Leu Arg Lys Gln Met
 210 215 220
 Arg Gly Asp Leu Phe Thr Gln Gln Gln Leu Glu Val Leu Asp Arg Val
 225 230 235 240
 Phe Glu Arg Gln His Tyr Ser Asp Ile Phe Thr Thr Thr Glu Pro Ile
 245 250 255
 Lys Pro Glu Gln Thr Thr Glu Tyr Ser Ala Met Ala Ser Leu Ala Gly
 260 265 270
 Gly Leu Asp Asp Met Lys Ala Asn Leu Ala Ser Pro Thr Pro Ala Asp
 275 280 285
 Ile Gly Ser Ser Val Pro Gly Pro Gln Ser Tyr Pro Ile Val Thr Gly
 290 295 300
 Arg Asp Leu Ala Ser Thr Thr Leu Pro Gly Tyr Pro Pro His Val Pro
 305 310 315 320
 Pro Ala Gly Gln Gly Ser Tyr Ser Ala Pro Thr Leu Thr Gly Met Val
 325 330 335
 Pro Gly Ser Glu Phe Ser Gly Ser Pro Tyr Ser His Pro Gln Tyr Ser
 340 345 350
 Ser Tyr Asn Asp Ser Trp Arg Phe Pro Asn Pro Gly Leu Leu Gly Ser
 355 360 365

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Pro Tyr Tyr Tyr Ser Ala Ala Ala Arg Gly Ala Ala Pro Pro Ala Ala
370 375 380

Ala Thr Ala Tyr Asp Arg His
385 390

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<212> PRT
<213> Homo sapiens
<400> 49

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His Arg Tyr Phe Tyr Pro Glu Pro Gly Ala Gln Asp Ala Asp Glu Arg
35 40 45

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

Pro Ala Pro Pro Ser Arg Phe Leu Gly Ala Tyr Ala Tyr Pro Pro Arg
65 70 75 80

Pro Gln Ala Ala Gly Phe Pro Gly Ala Gly Glu Ser Phe Pro Pro Pro
85 90 95

Ala Asp Ala Glu Gly Tyr Gln Pro Gly Glu Gly Tyr Ala Ala Pro Asp
100 105 110

Pro Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro
115 120 125

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

Leu Leu Trp Ser Lys Phe Asn Gln His Gln Thr Glu Met Ile Ile Thr
145 150 155 160

Lys Gln Gly Arg Arg Met Phe Pro Phe Leu Ser Phe Thr Val Ala Gly
165 170 175

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

Asp Gln His His Trp Arg Tyr Gln Ser Gly Lys Trp Val Gln Cys Gly
195 200 205

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Lys Ala Glu Gly Ser Met Pro Gly Asn Arg Leu Tyr Val His Pro Asp
210 215 220

Ser Pro Asn Thr Gly Ala His Trp Met Arg Gln Glu Val Ser Phe Gly
225 230 235 240

Lys Leu Lys Leu Thr Asn Asn Lys Gly Ala Ser Asn Asn Val Thr Gln
245 250 255

Met Ile Val Leu Gln Ser Leu His Lys Tyr Gln Pro Arg Leu His Ile
260 265 270

Val Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Asn Ala Ser Asn
275 280 285

Thr His Ile Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala
290 295 300

Tyr Gln Asn Ala Glu Ile Thr Gln Leu Lys Ile Asp Asn Asn Pro Phe
305 310 315 320

Ala Lys Gly Phe Arg Glu Asn Phe Glu Ser Met Tyr Thr Ser Val Asp
325 330 335

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

Asp His Tyr Ser Pro Leu Leu Pro Asn Gln Tyr Pro Val Pro Ser Arg
355 360 365

Phe Tyr Pro Asp Leu Pro Gly Gln Ala Lys Asp Val Val Pro Gln Ala
370 375 380

Tyr Trp Leu Gly Ala Pro Arg Asp His Ser Tyr Glu Ala Glu Phe Arg
385 390 395 400

Ala Val Ser Met Lys Pro Ala Phe Leu Pro Ser Ala Pro Gly Pro Thr
405 410 415

Met Ser Tyr Tyr Arg Gly Gln Glu Val Leu Ala Pro Gly Ala Gly Trp
420 425 430

Pro Val Ala Pro Gln Tyr Pro Pro Lys Met Gly Pro Ala Ser Trp Phe
435 440 445

Arg Pro Met Arg Thr Leu Pro Met Glu Pro Gly Pro Gly Gly Ser Glu
450 455 460

Gly Arg Gly Pro Glu Asp Gln Gly Pro Pro Leu Val Trp Thr Glu Ile
465 470 475 480

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Ala Pro Ile Arg Pro Glu Ser Ser Asp Ser Gly Leu Gly Glu Gly Asp
485 490 495

Ser Lys Arg Arg Arg Val Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser
500 505 510

Ser Pro Ala Gly Ala Pro Ser Pro Phe Asp Lys Glu Ala Glu Gly Gln
515 520 525

Phe Tyr Asn Tyr Phe Pro Asn
530 535

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<400> 50

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Ala Val Leu Asn Gly Gln His Pro Asp Thr His His Pro Gly Leu Ser
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35 40 45

Val Leu Phe Asn Ile Asp Gly Gln Gly Asn His Val Pro Pro Tyr Tyr
50 55 60

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

Gly Ser Gln Val Cys Arg Pro Pro Leu Leu His Gly Ser Leu Pro Trp
85 90 95

Leu Asp Gly Gly Lys Ala Leu Gly Ser His His Thr Ala Ser Pro Trp
100 105 110

Asn Leu Ser Pro Phe Ser Lys Thr Ser Ile His His Gly Ser Pro Gly
115 120 125

Pro Leu Ser Val Tyr Pro Pro Ala Ser Ser Ser Ser Leu Ser Gly Gly
130 135 140

His Ala Ser Pro His Leu Phe Thr Phe Pro Pro Thr Pro Pro Lys Asp
145 150 155 160

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

Arg Gln Asp Glu Lys Glu Cys Leu Lys Tyr Gln Val Pro Leu Pro Asp
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180

185

190

Ser Met Lys₁₉₅ Leu Glu Ser Ser His₂₀₀ Ser Arg Gly Ser Met₂₀₅ Thr Ala Leu
 Gly Gly₂₁₀ Ala Ser Ser Ser Thr₂₁₅ His His Pro Ile Thr₂₂₀ Thr Tyr Pro Pro
 Tyr Val₂₂₅ Pro Glu Tyr Ser₂₃₀ Ser Gly Leu Phe Pro₂₃₅ Pro Ser Ser Leu Leu₂₄₀
 Gly Gly Ser Pro Thr₂₄₅ Gly Phe Gly Cys Lys₂₅₀ Ser Arg Pro Lys Ala₂₅₅ Arg
 Ser Ser Thr Glu₂₆₀ Gly Arg Glu Cys Val₂₆₅ Asn Cys Gly Ala Thr₂₇₀ Ser Thr
 Pro Leu Trp₂₇₅ Arg Arg Asp Gly Thr₂₈₀ Gly His Tyr Leu Cys₂₈₅ Asn Ala Cys
 Gly Leu₂₉₀ Tyr His Lys Met Asn₂₉₅ Gly Gln Asn Arg Pro₃₀₀ Leu Ile Lys Pro
 Lys Arg Arg Leu Ser Ala₃₁₀ Ala Arg Arg Ala Gly₃₁₅ Thr Ser Cys Ala Asn₃₂₀
 Cys Gln Thr Thr Thr₃₂₅ Thr Thr Leu Trp Arg₃₃₀ Arg Asn Ala Asn Gly₃₃₅ Asp
 Pro Val Cys Asn₃₄₀ Ala Cys Gly Leu Tyr₃₄₅ Tyr Lys Leu His Asn₃₅₀ Ile Asn
 Arg Pro Leu₃₅₅ Thr Met Lys Lys Glu₃₆₀ Gly Ile Gln Thr Arg₃₆₅ Asn Arg Lys
 Met Ser₃₇₀ Ser Lys Ser Lys Lys₃₇₅ Cys Lys Lys Val His₃₈₀ Asp Ser Leu Glu
 Asp Phe Pro Lys Asn Ser₃₉₀ Ser Phe Asn Pro Ala₃₉₅ Ala Leu Ser Arg His₄₀₀
 Met Ser Ser Leu Ser₄₀₅ His Ile Ser Pro Phe₄₁₀ Ser His Ser Ser His₄₁₅ Met
 Leu Thr Thr Pro₄₂₀ Thr Pro Met His Pro₄₂₅ Pro Ser Ser Leu Ser₄₃₀ Phe Gly
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WAY10252sequencelistingST25

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 <213> Homo sapiens

<400> 51

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Asp Leu Arg Gly Gly Ala His Ala Ser Ser Ser Ser Leu Asn Pro Met
50          55          60

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Pro Ser Gly Ala Arg Leu Gly Pro Leu Pro His Leu Gln Ala Leu Leu
85          90          95

Gln Asp Arg Pro His Phe Met His Gln Leu Ser Thr Val Asp Ala His
100         105         110

Ala Arg Thr Pro Val Leu Gln Val His Pro Leu Glu Ser Pro Ala Met
115         120         125

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

Ala Arg Pro Gly Leu Pro Pro Gly Ile Asn Val Ala Ser Leu Glu Trp
145         150         155

Val Ser Arg Glu Pro Ala Leu Leu Cys Thr Phe Pro Asn Pro Ser Ala
165         170         175

Pro Arg Lys Asp Ser Thr Leu Ser Ala Val Pro Gln Ser Ser Tyr Pro
180         185         190

Leu Leu Ala Asn Gly Val Cys Lys Trp Pro Gly Cys Glu Lys Val Phe
195         200         205

Glu Glu Pro Glu Asp Phe Leu Lys His Cys Gln Ala Asp His Leu Leu
210         215         220

Asp Glu Lys Gly Arg Ala Gln Cys Leu Leu Gln Arg Glu Met Val Gln
225         230         235         240

Ser Leu Glu Gln Gln Leu Val Leu Glu Lys Glu Lys Leu Ser Ala Met
245         250         255
    
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WAY10252sequencelistingST25

Gln Ala His Leu₂₆₀ Ala Gly Lys Met Ala₂₆₅ Leu Thr Lys Ala Ser₂₇₀ Ser Val
 Ala Ser Ser₂₇₅ Asp Lys Gly Ser Cys₂₈₀ Cys Ile Val Ala Ala₂₈₅ Gly Ser Gln
 Gly Pro Val Val Pro Ala Trp₂₉₅ Ser Gly Pro Arg Glu₃₀₀ Ala Pro Asp Ser
 Leu Phe Ala Val Arg Arg₃₁₀ His Leu Trp Gly Ser₃₁₅ His Gly Asn Ser Thr₃₂₀
 Phe Pro Glu Phe Leu₃₂₅ His Asn Met Asp Tyr₃₃₀ Phe Lys Phe His Asn₃₃₅ Met
 Arg Pro Pro Phe₃₄₀ Thr Tyr Ala Thr Leu₃₄₅ Ile Arg Trp Ala Ile₃₅₀ Leu Glu
 Ala Pro Glu₃₅₅ Lys Gln Arg Thr Leu₃₆₀ Asn Glu Ile Tyr His₃₆₅ Trp Phe Thr
 Arg Met Phe Ala Phe Phe Arg₃₇₅ Asn His Pro Ala Thr₃₈₀ Trp Lys Asn Ala
 Ile Arg His Asn Leu Ser₃₉₀ Leu His Lys Cys Phe₃₉₅ Val Arg Val Glu Ser₄₀₀
 Glu Lys Gly Ala Val₄₀₅ Trp Thr Val Asp Glu₄₁₀ Leu Glu Phe Arg Lys₄₁₅ Lys
 Arg Ser Gln Arg₄₂₀ Pro Ser Arg Cys Ser₄₂₅ Asn Pro Thr Pro Gly₄₃₀ Pro

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<400> 52

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 Ile Cys Gly₃₅ Asp Lys Ser Ser Gly₄₀ Ile His Tyr Gly₄₅ Val Ile Thr Cys
 Glu Gly₅₀ Cys Lys Gly Phe Phe₅₅ Arg Arg Ser Gln Arg₆₀ Cys Asn Ala Ala

WAY10252sequencelistingST25

Tyr Ser Cys Thr Arg Gln Gln Asn Cys Pro Ile Asp Arg Thr Ser Arg
 65 70 75 80
 Asn Arg Cys Gln His Cys Arg Leu Gln Lys Cys Leu Ala Leu Gly Met
 85 90 95
 Ser Arg Asp Ala Val Lys Phe Gly Arg Met Ser Lys Lys Gln Arg Asp
 100 105 110
 Ser Leu His Ala Glu Val Gln Lys Gln Leu Gln Gln Arg Gln Gln Gln
 115 120 125
 Gln Gln Glu Pro Val Val Lys Thr Pro Pro Ala Gly Ala Gln Gly Ala
 130 135 140
 Asp Thr Leu Thr Tyr Thr Leu Gly Leu Pro Asp Gly Gln Leu Pro Leu
 145 150 155 160
 Gly Ser Ser Pro Asp Leu Pro Glu Ala Ser Ala Cys Pro Pro Gly Leu
 165 170 175
 Leu Lys Ala Ser Gly Ser Gly Pro Ser Tyr Ser Asn Asn Leu Ala Lys
 180 185 190
 Ala Gly Leu Asn Gly Ala Ser Cys His Leu Glu Tyr Ser Pro Glu Arg
 195 200 205
 Gly Lys Ala Glu Gly Arg Glu Ser Phe Tyr Ser Thr Gly Ser Gln Leu
 210 215 220
 Thr Pro Asp Arg Cys Gly Leu Arg Phe Glu Glu His Arg His Pro Gly
 225 230 235 240
 Leu Gly Glu Leu Gly Gln Gly Pro Asp Ser Tyr Gly Ser Pro Ser Phe
 245 250 255
 Arg Ser Thr Pro Glu Ala Pro Tyr Ala Ser Leu Thr Glu Ile Glu His
 260 265 270
 Leu Val Gln Ser Val Cys Lys Ser Tyr Arg Glu Thr Cys Gln Leu Arg
 275 280 285
 Leu Glu Asp Leu Leu Arg Gln Arg Ser Asn Ile Phe Ser Arg Glu Glu
 290 295 300
 Val Thr Gly Tyr Gln Arg Lys Ser Met Trp Glu Met Trp Glu Arg Cys
 305 310 315 320
 Ala His His Leu Thr Glu Ala Ile Gln Tyr Val Val Glu Phe Ala Lys
 325 330 335

WAY10252sequencelistingST25

Arg Leu Ser Gly Phe Met Glu Leu Cys Gln Asn Asp Gln Ile Val Leu
 340 345 350
 Leu Lys Ala Gly Ala Met Glu Val Val Leu Val Arg Met Cys Arg Ala
 355 360 365
 Tyr Asn Ala Asp Asn Arg Thr Val Phe Phe Glu Gly Lys Tyr Gly Gly
 370 375 380
 Met Glu Leu Phe Arg Ala Leu Gly Cys Ser Glu Leu Ile Ser Ser Ile
 385 390 395 400
 Phe Asp Phe Ser His Ser Leu Ser Ala Leu His Phe Ser Glu Asp Glu
 405 410 415
 Ile Ala Leu Tyr Thr Ala Leu Val Leu Ile Asn Ala His Arg Pro Gly
 420 425 430
 Leu Gln Glu Lys Arg Lys Val Glu Gln Leu Gln Tyr Asn Leu Glu Leu
 435 440 445
 Ala Phe His His His Leu Cys Lys Thr His Arg Gln Ser Ile Leu Ala
 450 455 460
 Lys Leu Pro Pro Lys Gly Lys Leu Arg Ser Leu Cys Ser Gln His Val
 465 470 475 480
 Glu Arg Leu Gln Ile Phe Gln His Leu His Pro Ile Val Val Gln Ala
 485 490 495
 Ala Phe Pro Pro Leu Tyr Lys Glu Leu Phe Ser Thr Glu Thr Glu Ser
 500 505 510
 Pro Val Gly Cys Pro Ser Asp Leu Glu Glu Gly Leu Leu Ala Ser Pro
 515 520 525
 Tyr Gly Leu Leu Ala Thr Ser Leu Asp Pro Val Pro Pro Ser Pro Phe
 530 535 540
 Ser Phe Pro Met Asn Pro Gly Gly Trp Ser Pro Pro Ala Leu Trp Lys
 545 550 555 560
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Ala Ala Leu Asp Pro Ala Tyr Thr Thr Leu Glu Phe Glu Asn Val Gln
20 25 30

Val Leu Thr Met Gly Asn Asp Thr Ser Pro Ser Glu Gly Thr Asn Leu
35 40 45

Asn Ala Pro Asn Ser Leu Gly Val Ser Ala Leu Cys Ala Ile Cys Gly
50 55 60

Asp Arg Ala Thr Gly Lys His Tyr Gly Ala Ser Ser Cys Asp Gly Cys
65 70 75 80

Lys Gly Phe Phe Arg Arg Ser Val Arg Lys Asn His Met Tyr Ser Cys
85 90 95

Arg Phe Ser Arg Gln Cys Val Val Asp Lys Asp Lys Arg Asn Gln Cys
100 105 110

Arg Tyr Cys Arg Leu Lys Lys Cys Phe Arg Ala Gly Met Lys Lys Glu
115 120 125

Ala Val Gln Asn Glu Arg Asp Arg Ile Ser Thr Arg Arg Ser Ser Tyr
130 135 140

Glu Asp Ser Ser Leu Pro Ser Ile Asn Ala Leu Leu Gln Ala Glu Val
145 150 155 160

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

Arg Ala Lys Lys Ile Ala Ser Ile Ala Asp Val Cys Glu Ser Met Lys
180 185 190

Glu Gln Leu Leu Val Leu Val Glu Trp Ala Lys Tyr Ile Pro Ala Phe
195 200 205

Cys Glu Leu Pro Leu Asp Asp Gln Val Ala Leu Leu Arg Ala His Ala
210 215 220

Gly Glu His Leu Leu Leu Gly Ala Thr Lys Arg Ser Met Val Phe Lys
225 230 235 240

Asp Val Leu Leu Leu Gly Asn Asp Tyr Ile Val Pro Arg His Cys Pro
245 250 255

Glu Leu Ala Glu Met Ser Arg Val Ser Ile Arg Ile Leu Asp Glu Leu
260 265 270

Val Leu Pro Phe Gln Glu Leu Gln Ile Asp Asp Asn Glu Tyr Ala Tyr
275 280 285

WAY10252sequencelistingST25

Leu Lys Ala Ile Ile Phe Phe Asp Pro Asp Ala Lys Gly Leu Ser Asp
290 295 300

Pro Gly Lys Ile Lys Arg Leu Arg Ser Gln Val Gln Val Ser Leu Glu
305 310 315 320

Asp Tyr Ile Asn Asp Arg Gln Tyr Asp Ser Arg Gly Arg Phe Gly Glu
325 330 335

Leu Leu Leu Leu Leu Pro Thr Leu Gln Ser Ile Thr Trp Gln Met Ile
340 345 350

Glu Gln Ile Gln Phe Ile Lys Leu Phe Gly Met Ala Lys Ile Asp Asn
355 360 365

Leu Leu Gln Glu Met Leu Leu Gly Gly Ser Pro Ser Asp Ala Pro His
370 375 380

Ala His His Pro Leu His Pro His Leu Met Gln Glu His Met Gly Thr
385 390 395 400

Asn Val Ile Val Ala Asn Thr Met Pro Thr His Leu Ser Asn Gly Gln
405 410 415

Met Ser Thr Pro Glu Thr Pro Gln Pro Ser Pro Pro Gly Gly Ser Gly
420 425 430

Ser Glu Pro Tyr Lys Leu Leu Pro Gly Ala Val Ala Thr Ile Val Lys
435 440 445

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

Tyr Leu Ala Gln Trp Ile Glu Ser Gln Pro Trp Asp Ala Ile Asp Leu
35 40 45

Asp Asn Pro Gln Asp Arg Ala Gln Ala Thr Gln Leu Leu Glu Gly Leu
50 55 60

Val Gln Glu Leu Gln Lys Lys Ala Glu His Gln Val Gly Glu Asp Gly

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65				70				75				80			
Phe	Leu	Leu	Lys	Ile 85	Lys	Leu	Arg	His	Tyr 90	Ala	Thr	Gln	Leu	Gln 95	Lys
Thr	Tyr	Asp	Arg 100	Cys	Pro	Leu	Glu	Leu 105	Val	Arg	Cys	Ile	Arg 110	His	Ile
Leu	Tyr	Asn 115	Glu	Gln	Arg	Leu	Val 120	Arg	Glu	Ala	Asn	Asn 125	Cys	Ser	Ser
Pro	Ala 130	Gly	Ile	Leu	Val	Asp 135	Ala	Met	Ser	Gln	Lys 140	His	Leu	Gln	Ile
Asn 145	Gln	Thr	Phe	Glu	Glu 150	Leu	Arg	Leu	Val	Thr 155	Gln	Asp	Thr	Glu	Asn 160
Glu	Leu	Lys	Lys	Leu 165	Gln	Gln	Thr	Gln	Glu 170	Tyr	Phe	Ile	Ile	Gln 175	Tyr
Gln	Glu	Ser	Leu 180	Arg	Ile	Gln	Ala	Gln 185	Phe	Ala	Gln	Leu	Ala 190	Gln	Leu
Ser	Pro	Gln 195	Glu	Arg	Leu	Ser	Arg 200	Glu	Thr	Ala	Leu	Gln 205	Gln	Lys	Gln
Val	Ser 210	Leu	Glu	Ala	Trp	Leu 215	Gln	Arg	Glu	Ala	Gln 220	Thr	Leu	Gln	Gln
Tyr 225	Arg	Val	Glu	Leu	Ala 230	Glu	Lys	His	Gln	Lys 235	Thr	Leu	Gln	Leu	Leu 240
Arg	Lys	Gln	Gln	Thr 245	Ile	Ile	Leu	Asp	Asp 250	Glu	Leu	Ile	Gln	Trp 255	Lys
Arg	Arg	Gln	Gln 260	Leu	Ala	Gly	Asn	Gly 265	Gly	Pro	Pro	Glu	Gly 270	Ser	Leu
Asp	Val	Leu 275	Gln	Ser	Trp	Cys	Glu 280	Lys	Leu	Ala	Glu	Ile 285	Ile	Trp	Gln
Asn	Arg 290	Gln	Gln	Ile	Arg	Arg 295	Ala	Glu	His	Leu	Cys 300	Gln	Gln	Leu	Pro
Ile 305	Pro	Gly	Pro	Val	Glu 310	Glu	Met	Leu	Ala	Glu 315	Val	Asn	Ala	Thr	Ile 320
Thr	Asp	Ile	Ile	Ser 325	Ala	Leu	Val	Thr	Ser 330	Thr	Phe	Ile	Ile	Glu 335	Lys
Gln	Pro	Pro	Gln	Val	Leu	Lys	Thr	Gln	Thr	Lys	Phe	Ala	Ala	Thr	Val

WAY10252sequencelistingST25

340

345

350

Arg Leu Leu Val Gly Gly Lys Leu Asn Val His Met Asn Pro Pro Gln
355 360 365

Val Lys Ala Thr Ile Ile Ser Glu Gln Gln Ala Lys Ser Leu Leu Lys
370 375 380

Asn Glu Asn Thr Arg Asn Glu Cys Ser Gly Glu Ile Leu Asn Asn Cys
385 390 395 400

Cys Val Met Glu Tyr His Gln Ala Thr Gly Thr Leu Ser Ala His Phe
405 410 415

Arg Asn Met Ser Leu Lys Arg Ile Lys Arg Ala Asp Arg Arg Gly Ala
420 425 430

Glu Ser Val Thr Glu Glu Lys Phe Thr Val Leu Phe Glu Ser Gln Phe
435 440 445

Ser Val Gly Ser Asn Glu Leu Val Phe Gln Val Lys Thr Leu Ser Leu
450 455 460

Pro Val Val Val Ile Val His Gly Ser Gln Asp His Asn Ala Thr Ala
465 470 475 480

Thr Val Leu Trp Asp Asn Ala Phe Ala Glu Pro Gly Arg Val Pro Phe
485 490 495

Ala Val Pro Asp Lys Val Leu Trp Pro Gln Leu Cys Glu Ala Leu Asn
500 505 510

Met Lys Phe Lys Ala Glu Val Gln Ser Asn Arg Gly Leu Thr Lys Glu
515 520 525

Asn Leu Val Phe Leu Ala Gln Lys Leu Phe Asn Asn Ser Ser Ser His
530 535 540

Leu Glu Asp Tyr Ser Gly Leu Ser Val Ser Trp Ser Gln Phe Asn Arg
545 550 555 560

Glu Asn Leu Pro Gly Trp Asn Tyr Thr Phe Trp Gln Trp Phe Asp Gly
565 570 575

Val Met Glu Val Leu Lys Lys His His Lys Pro His Trp Asn Asp Gly
580 585 590

Ala Ile Leu Gly Phe Val Asn Lys Gln Gln Ala His Asp Leu Leu Ile
595 600 605

Asn Lys Pro Asp Gly Thr Phe Leu Leu Arg Phe Ser Asp Ser Glu Ile

WAY10252sequencelistingST25

610

615

620

Gly Gly Ile Thr Ile Ala Trp Lys Phe Asp Ser Pro Glu Arg Asn Leu
625 630 635 640

Trp Asn Leu Lys Pro Phe Thr Thr Arg Asp Phe Ser Ile Arg Ser Leu
645 650 655

Ala Asp Arg Leu Gly Asp Leu Ser Tyr Leu Ile Tyr Val Phe Pro Asp
660 665 670

Arg Pro Lys Asp Glu Val Phe Ser Lys Tyr Tyr Thr Pro Val Leu Ala
675 680 685

Lys Ala Val Asp Gly Tyr Val Lys Pro Gln Ile Lys Gln Val Val Pro
690 695 700

Glu Phe Val Asn Ala Ser Ala Asp Ala Gly Gly Ser Ser Ala Thr Tyr
705 710 715 720

Met Asp Gln Ala Pro Ser Pro Ala Val Cys Pro Gln Ala Pro Tyr Asn
725 730 735

Met Tyr Pro Gln Asn Pro Asp His Val Leu Asp Gln Asp Gly Glu Phe
740 745 750

Asp Leu Asp Glu Thr Met Asp Val Ala Arg His Val Glu Glu Leu Leu
755 760 765

Arg Arg Pro Met Asp Ser Leu Asp Ser Arg Leu Ser Pro Pro Ala Gly
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Leu Phe Thr Ser Ala Arg Gly Ser Leu Ser
785 790

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

Leu Val Phe Leu Ser Leu Gly Leu Val Leu Ser Tyr Arg Cys Arg His
35 40 45

Arg Asn Gly Gly Leu Leu Gly Arg Gln Gln Ser Gly Ser Gln Phe Ala
50 55 60

WAY10252sequencelistingST25

Leu Phe Ser Asp Ile Leu Ser Gly Leu Pro Phe Ile Gly Phe Phe Trp
 65 70 75 80
 Ala Lys Ser Pro Pro Glu Ser Glu Asn Lys Glu Gln Leu Glu Ala Arg
 85 90 95
 Arg Arg Arg Lys Gly Thr Asn Ile Ser Glu Thr Ser Leu Ile Gly Thr
 100 105 110
 Ala Ala Cys Thr Ser Thr Ser Ser Gln Asn Asp Pro Glu Val Ile Ile
 115 120 125
 Val Gly Ala Gly Val Leu Gly Ser Ala Leu Ala Ala Val Leu Ser Arg
 130 135 140
 Asp Gly Arg Lys Val Thr Val Ile Glu Arg Asp Leu Lys Glu Pro Asp
 145 150 155 160
 Arg Ile Val Gly Glu Phe Leu Gln Pro Gly Gly Tyr His Val Leu Lys
 165 170 175
 Asp Leu Gly Leu Gly Asp Thr Val Glu Gly Leu Asp Ala Gln Val Val
 180 185 190
 Asn Gly Tyr Met Ile His Asp Gln Glu Ser Lys Ser Glu Val Gln Ile
 195 200 205
 Pro Tyr Pro Leu Ser Glu Asn Asn Gln Val Gln Ser Gly Arg Ala Phe
 210 215 220
 His His Gly Arg Phe Ile Met Ser Leu Arg Lys Ala Ala Met Ala Glu
 225 230 235 240
 Pro Asn Ala Lys Phe Ile Glu Gly Val Val Leu Gln Leu Leu Glu Glu
 245 250 255
 Asp Asp Val Val Met Gly Val Gln Tyr Lys Asp Lys Glu Thr Gly Asp
 260 265 270
 Ile Lys Glu Leu His Ala Pro Leu Thr Val Val Ala Asp Gly Leu Phe
 275 280 285
 Ser Lys Phe Arg Lys Ser Leu Val Ser Asn Lys Val Ser Val Ser Ser
 290 295 300
 His Phe Val Gly Phe Leu Met Lys Asn Ala Pro Gln Phe Lys Ala Asn
 305 310 315 320
 His Ala Glu Leu Ile Leu Ala Asn Pro Ser Pro Val Leu Ile Tyr Gln
 325 330 335

WAY10252sequencelistingST25

Ile Ser Ser Ser Glu Thr Arg Val Leu Val Asp Ile Arg Gly Glu Met
340 345 350

Pro Arg Asn Leu Arg Glu Tyr Met Val Glu Lys Ile Tyr Pro Gln Ile
355 360 365

Pro Asp His Leu Lys Glu Pro Phe Leu Glu Ala Thr Asp Asn Ser His
370 375 380

Leu Arg Ser Met Pro Ala Ser Phe Leu Pro Pro Ser Ser Val Lys Lys
385 390 395 400

Arg Gly Val Leu Leu Leu Gly Asp Ala Tyr Asn Met Arg His Pro Leu
405 410 415

Thr Gly Gly Gly Met Thr Val Ala Phe Lys Asp Ile Lys Leu Trp Arg
420 425 430

Lys Leu Leu Lys Gly Ile Pro Asp Leu Tyr Asp Asp Ala Ala Ile Phe
435 440 445

Glu Ala Lys Lys Ser Phe Tyr Trp Ala Arg Lys Thr Ser His Ser Phe
450 455 460

Val Val Asn Ile Leu Ala Gln Ala Leu Tyr Glu Leu Phe Ser Ala Thr
465 470 475 480

Asp Asp Ser Leu His Gln Leu Arg Lys Ala Cys Phe Leu Tyr Phe Lys
485 490 495

Leu Gly Gly Glu Cys Val Ala Gly Pro Val Gly Leu Leu Ser Val Leu
500 505 510

Ser Pro Asn Pro Leu Val Leu Ile Gly His Phe Phe Ala Val Ala Ile
515 520 525

Tyr Ala Val Tyr Phe Cys Phe Lys Ser Glu Pro Trp Ile Thr Lys Pro
530 535 540

Arg Ala Leu Leu Ser Ser Gly Ala Val Leu Tyr Lys Ala Cys Ser Val
545 550 555 560

Ile Phe Pro Leu Ile Tyr Ser Glu Met Lys Tyr Met Val His
565 570

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<400> 56

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Met Asp Leu Trp Asn Trp Asp Glu Ala Ser Pro Gln Glu Val Pro Pro
1 5 10 15

Gly Asn Lys Leu Ala Gly Leu Glu Gly Ala Lys Leu Gly Phe Cys Phe
20 25 30

Pro Asp Leu Ala Leu Gln Gly Asp Thr Pro Thr Ala Thr Ala Glu Thr
35 40 45

Cys Trp Lys Gly Thr Ser Ser Ser Leu Ala Ser Phe Pro Gln Leu Asp
50 55 60

Trp Gly Ser Ala Leu Leu His Pro Glu Val Pro Trp Gly Ala Glu Pro
65 70 75 80

Asp Ser Gln Ala Leu Pro Trp Ser Gly Asp Trp Thr Asp Met Ala Cys
85 90 95

Thr Ala Trp Asp Ser Trp Ser Gly Ala Ser Gln Thr Leu Gly Pro Ala
100 105 110

Pro Leu Gly Pro Gly Pro Ile Pro Ala Ala Gly Ser Glu Gly Ala Ala
115 120 125

Gly Gln Asn Cys Val Pro Val Ala Gly Glu Ala Thr Ser Trp Ser Arg
130 135 140

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

Asp Gly Asp Thr Tyr Trp Gly Ser Gly Leu Gly Gly Glu Pro Arg Thr
165 170 175

Asp Cys Thr Ile Ser Trp Gly Gly Pro Ala Gly Pro Asp Cys Thr Thr
180 185 190

Ser Trp Asn Pro Gly Leu His Ala Gly Gly Thr Thr Ser Leu Lys Arg
195 200 205

Tyr Gln Ser Ser Ala Leu Thr Val Cys Ser Glu Pro Ser Pro Gln Ser
210 215 220

Asp Arg Ala Ser Leu Ala Arg Cys Pro Lys Thr Asn His Arg Gly Pro
225 230 235 240

Ile Gln Leu Trp Gln Phe Leu Leu Glu Leu Leu His Asp Gly Ala Arg
245 250 255

Ser Ser Cys Ile Arg Trp Thr Gly Asn Ser Arg Glu Phe Gln Leu Cys
260 265 270

WAY10252sequencelistingST25

Asp Pro Lys Glu Val Ala Arg Leu Trp Gly Glu Arg Lys Arg Lys Pro
275 280 285

Gly Met Asn Tyr Glu Lys Leu Ser Arg Gly Leu Arg Tyr Tyr Tyr Arg
290 295 300

Arg Asp Ile Val Arg Lys Ser Gly Gly Arg Lys Tyr Thr Tyr Arg Phe
305 310 315 320

Gly Gly Arg Val Pro Ser Leu Ala Tyr Pro Asp Cys Ala Gly Gly Gly
325 330 335

Arg Gly Ala Glu Thr Gln
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Met Glu Val Ala Pro Glu Gln Pro Arg Trp Met Ala His Pro Ala Val
1 5 10 15

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

Tyr Met Glu Pro Ala Gln Leu Leu Pro Pro Asp Glu Val Asp Val Phe
35 40 45

Phe Asn His Leu Asp Ser Gln Gly Asn Pro Tyr Tyr Ala Asn Pro Ala
50 55 60

His Ala Arg Ala Arg Val Ser Tyr Ser Pro Ala His Ala Arg Leu Thr
65 70 75 80

Gly Gly Gln Met Cys Arg Pro His Leu Leu His Ser Pro Gly Leu Pro
85 90 95

Trp Leu Asp Gly Gly Lys Ala Ala Leu Ser Ala Ala Ala Ala His His
100 105 110

His Asn Pro Trp Thr Val Ser Pro Phe Ser Lys Thr Pro Leu His Pro
115 120 125

Ser Ala Ala Gly Gly Pro Gly Gly Pro Leu Ser Val Tyr Pro Gly Ala
130 135 140

Gly Gly Gly Ser Gly Gly Gly Ser Gly Ser Ser Val Ala Ser Leu Thr
145 150 155 160

WAY10252sequencelistingST25

Pro Thr Ala Ala His Ser Gly Ser His Leu Phe Gly Phe Pro Pro Thr
165 170 175

Pro Pro Lys Glu Val Ser Pro Asp Pro Ser Thr Thr Gly Ala Ala Ser
180 185 190

Pro Ala Ser Ser Ser Ala Gly Gly Ser Ala Ala Arg Gly Glu Asp Lys
195 200 205

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

Ser Gly Ser Pro Leu Arg Pro Gly Leu Ala Thr Met Gly Thr Gln Pro
225 230 235 240

Ala Thr His His Pro Ile Pro Thr Tyr Pro Ser Tyr Val Pro Ala Ala
245 250 255

Ala His Asp Tyr Ser Ser Gly Leu Phe His Pro Gly Gly Phe Leu Gly
260 265 270

Gly Pro Ala Ser Ser Phe Thr Pro Lys Gln Arg Ser Lys Ala Arg Ser
275 280 285

Cys Ser Glu Gly Arg Glu Cys Val Asn Cys Gly Ala Thr Ala Thr Pro
290 295 300

Leu Trp Arg Arg Asp Gly Thr Gly His Tyr Leu Cys Asn Ala Cys Gly
305 310 315 320

Leu Tyr His Lys Met Asn Gly Gln Asn Arg Pro Leu Ile Lys Pro Lys
325 330 335

Arg Arg Leu Ser Ala Ala Arg Arg Ala Gly Thr Cys Cys Ala Asn Cys
340 345 350

Gln Thr Thr Thr Thr Thr Leu Trp Arg Arg Asn Ala Asn Gly Asp Pro
355 360 365

Val Cys Asn Ala Cys Gly Leu Tyr Tyr Lys Leu His Asn Val Asn Arg
370 375 380

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

Ser Asn Lys Ser Lys Lys Ser Lys Lys Gly Ala Glu Cys Phe Glu Glu
405 410 415

Leu Ser Lys Cys Met Gln Glu Lys Ser Ser Pro Phe Ser Ala Ala Ala
420 425 430

WAY10252sequencelistingST25

Leu Ala Gly His Met Ala Pro Val Gly His Leu Pro Pro Phe Ser His
435 440 445

Ser Gly His Ile Leu Pro Thr Pro Thr Pro Ile His Pro Ser Ser Ser
450 455 460

Leu Ser Phe Gly His Pro His Pro Ser Ser Met Val Thr Ala Met Gly
465 470 475 480

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<400> 58

Met Lys Arg Ala His Pro Glu Tyr Ser Ser Ser Asp Ser Glu Leu Asp
1 5 10 15

Glu Thr Ile Glu Val Glu Lys Glu Ser Ala Asp Glu Asn Gly Asn Leu
20 25 30

Ser Ser Ala Leu Gly Ser Met Ser Pro Thr Thr Ser Ser Gln Ile Leu
35 40 45

Ala Arg Lys Arg Arg Arg Gly Ile Ile Glu Lys Arg Arg Arg Asp Arg
50 55 60

Ile Asn Asn Ser Leu Ser Glu Leu Arg Arg Leu Val Pro Ser Ala Phe
65 70 75 80

Glu Lys Gln Gly Ser Ala Lys Leu Glu Lys Ala Glu Ile Leu Gln Met
85 90 95

Thr Val Asp His Leu Lys Met Leu His Thr Ala Gly Gly Lys Gly Tyr
100 105 110

Phe Asp Ala His Ala Leu Ala Met Asp Tyr Arg Ser Leu Gly Phe Arg
115 120 125

Glu Cys Leu Ala Glu Val Ala Arg Tyr Leu Ser Ile Ile Glu Gly Leu
130 135 140

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

Tyr Ala Ser Gln Arg Glu Ala Ala Ser Gly Ala His Ala Gly Leu Gly
165 170 175

His Ile Pro Trp Gly Thr Val Phe Gly His His Pro His Ile Ala His
180 185 190

Pro Leu Leu Leu Pro Gln Asn Gly His Gly Asn Ala Gly Thr Thr Ala
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195

200

205

Ser Pro Thr Glu Pro His His Gln Gly Arg Leu Gly Ser Ala His Pro
 210 215 220

Glu Ala Pro Ala Leu Arg Ala Pro Pro Ser Gly Ser Leu Gly Pro Val
 225 230 235 240

Leu Pro Val Val Thr Ser Ala Ser Lys Leu Ser Pro Pro Leu Leu Ser
 245 250 255

Ser Val Ala Ser Leu Ser Ala Phe Pro Phe Ser Phe Gly Ser Phe His
 260 265 270

Leu Leu Ser Pro Asn Ala Leu Ser Pro Ser Ala Pro Thr Gln Ala Ala
 275 280 285

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

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Met Lys Arg Pro Cys Glu Glu Thr Thr Ser Glu Ser Asp Met Asp Glu
 1 5 10 15

Thr Ile Asp Val Gly Ser Glu Asn Asn Tyr Ser Gly Gln Ser Thr Ser
 20 25 30

Ser Val Ile Arg Leu Asn Ser Pro Thr Thr Thr Ser Gln Ile Met Ala
 35 40 45

Arg Lys Lys Arg Arg Gly Ile Ile Glu Lys Arg Arg Arg Asp Arg Ile
 50 55 60

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

Lys Gln Gly Ser Ala Lys Leu Glu Lys Ala Glu Ile Leu Gln Met Thr
 85 90 95

Val Asp His Leu Lys Met Leu Gln Ala Thr Gly Gly Lys Gly Tyr Phe
 100 105 110

Asp Ala His Ala Leu Ala Met Asp Phe Met Ser Ile Gly Phe Arg Glu
 115 120 125

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

WAY10252sequencelistingST25

Ser Ser Asp Pro Leu Arg Val Arg Leu Val Ser His Leu Ser Thr Cys
145 150 155 160

Ala Thr Gln Arg Glu Ala Ala Ala Met Thr Ser Ser Met Ala His His
165 170 175

His His Pro Leu His Pro His His Trp Ala Ala Ala Phe His His Leu
180 185 190

Pro Ala Ala Leu Leu Gln Pro Asn Gly Leu His Ala Ser Glu Ser Thr
195 200 205

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

Ala Leu Leu Thr Ala Thr Phe Ala His Ala Asp Ser Ala Leu Arg Met
225 230 235 240

Pro Ser Thr Gly Ser Val Ala Pro Cys Val Pro Pro Leu Ser Thr Ser
245 250 255

Leu Leu Ser Leu Ser Ala Thr Val His Ala Ala Ala Ala Ala Ala Thr
260 265 270

Ala Ala Ala His Ser Phe Pro Leu Ser Phe Ala Gly Ala Phe Pro Met
275 280 285

Leu Pro Pro Asn Ala Ala Ala Ala Val Ala Ala Ala Thr Ala Ile Ser
290 295 300

Pro Pro Leu Ser Val Ser Ala Thr Ser Ser Pro Gln Gln Thr Ser Ser
305 310 315 320

Gly Thr Asn Asn Lys Pro Tyr Arg Pro Trp Gly Thr Glu Val Gly Ala
325 330 335

Phe

<210> 60
<211> 553
<212> PRT
<213> Homo sapiens

<400> 60

Met Gln Ala Arg Tyr Ser Val Ser Ser Pro Asn Ser Leu Gly Val Val
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Pro Tyr Leu Gly Gly Glu Gln Ser Tyr Tyr Arg Ala Ala Ala Ala Ala
20 25 30

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Ala Gly Gly Gly Tyr Thr Ala Met Pro Ala Pro Met Ser Val Tyr Ser
35 40 45

His Pro Ala His Ala Glu Gln Tyr Pro Gly Gly Met Ala Arg Ala Tyr
50 55 60

Gly Pro Tyr Thr Pro Gln Pro Gln Pro Lys Asp Met Val Lys Pro Pro
65 70 75 80

Tyr Ser Tyr Ile Ala Leu Ile Thr Met Ala Ile Gln Asn Ala Pro Asp
85 90 95

Lys Lys Ile Thr Leu Asn Gly Ile Tyr Gln Phe Ile Met Asp Arg Phe
100 105 110

Pro Phe Tyr Arg Asp Asn Lys Gln Gly Trp Gln Asn Ser Ile Arg His
115 120 125

Asn Leu Ser Leu Asn Glu Cys Phe Val Lys Val Pro Arg Asp Asp Lys
130 135 140

Lys Pro Gly Lys Gly Ser Tyr Trp Thr Leu Asp Pro Asp Ser Tyr Asn
145 150 155 160

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

Lys Asp Ala Val Lys Asp Lys Glu Glu Lys Asp Arg Leu His Leu Lys
180 185 190

Glu Pro Pro Pro Pro Gly Arg Gln Pro Pro Pro Ala Pro Pro Glu Gln
195 200 205

Ala Asp Gly Asn Ala Pro Gly Pro Gln Pro Pro Pro Val Arg Ile Gln
210 215 220

Asp Ile Lys Thr Glu Asn Gly Thr Cys Pro Ser Pro Pro Gln Pro Leu
225 230 235 240

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

Ile Glu Ser Pro Asp Ser Ser Ser Ser Ser Leu Ser Ser Gly Ser Ser
260 265 270

Pro Pro Gly Ser Leu Pro Ser Ala Arg Pro Leu Ser Leu Asp Gly Ala
275 280 285

Asp Ser Ala Pro Pro Pro Pro Ala Pro Ser Ala Pro Pro Pro His His
290 295 300

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Ser Gln Gly Phe Ser Val Asp Asn Ile Met Thr Ser Leu Arg Gly Ser
305 310 315 320

Pro Gln Ser Ala Ala Ala Glu Leu Ser Ser Gly Leu Leu Ala Ser Ala
325 330 335

Ala Ala Ser Ser Arg Ala Gly Ile Ala Pro Pro Leu Ala Leu Gly Ala
340 345 350

Tyr Ser Pro Gly Gln Ser Ser Leu Tyr Ser Ser Pro Cys Ser Gln Thr
355 360 365

Ser Ser Ala Gly Ser Ser Gly Gly Gly Gly Gly Gly Ala Gly Ala Ala
370 375 380

Gly Gly Ala Gly Gly Ala Gly Thr Tyr His Cys Asn Leu Gln Ala Met
385 390 395 400

Ser Leu Tyr Ala Ala Gly Glu Arg Gly Gly His Leu Gln Gly Ala Pro
405 410 415

Gly Gly Ala Gly Gly Ser Ala Val Asp Asp Pro Leu Pro Asp Tyr Ser
420 425 430

Leu Pro Pro Val Thr Ser Ser Ser Ser Ser Ser Leu Ser His Gly Gly
435 440 445

Gly Gly Gly Gly Gly Gly Gly Gly Gln Glu Ala Gly His His Pro Ala
450 455 460

Ala His Gln Gly Arg Leu Thr Ser Trp Tyr Leu Asn Gln Ala Gly Gly
465 470 475 480

Asp Leu Gly His Leu Ala Ser Ala Ala Ala Ala Ala Ala Ala Gly
485 490 495

Tyr Pro Gly Gln Gln Gln Asn Phe His Ser Val Arg Glu Met Phe Glu
500 505 510

Ser Gln Arg Ile Gly Leu Asn Asn Ser Pro Val Asn Gly Asn Ser Ser
515 520 525

Cys Gln Met Ala Phe Pro Ser Ser Gln Ser Leu Tyr Arg Thr Ser Gly
530 535 540

Ala Phe Val Tyr Asp Cys Ser Lys Phe
545 550

<210> 61
<211> 501
<212> PRT

WAY10252sequencelistingST25

<213> Homo sapiens

<400> 61

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

Ser Ala Gly Met Gly Arg Ser Tyr Ala Pro Tyr His His His Gln Pro
50     55     60

Ala Ala Pro Lys Asp Leu Val Lys Pro Pro Tyr Ser Tyr Ile Ala Leu
65     70     75     80

Ile Thr Met Ala Ile Gln Asn Ala Pro Glu Lys Lys Ile Thr Leu Asn
85     90     95

Gly Ile Tyr Gln Phe Ile Met Asp Arg Phe Pro Phe Tyr Arg Glu Asn
100    105    110

Lys Gln Gly Trp Gln Asn Ser Ile Arg His Asn Leu Ser Leu Asn Glu
115    120    125

Cys Phe Val Lys Val Pro Arg Asp Asp Lys Lys Pro Gly Lys Gly Ser
130    135    140

Tyr Trp Thr Leu Asp Pro Asp Ser Tyr Asn Met Phe Glu Asn Gly Ser
145    150    155    160

Phe Leu Arg Arg Arg Arg Arg Phe Lys Lys Lys Asp Val Ser Lys Glu
165    170    175

Lys Glu Glu Arg Ala His Leu Lys Glu Pro Pro Pro Ala Ala Ser Lys
180    185    190

Gly Ala Pro Ala Thr Pro His Leu Ala Asp Ala Pro Lys Glu Ala Glu
195    200    205

Lys Lys Val Val Ile Lys Ser Glu Ala Ala Ser Pro Ala Leu Pro Val
210    215    220

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

Pro Arg Ser Ala Ala Ser Thr Pro Ala Gly Ser Pro Asp Gly Ser Leu
245    250    255

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Pro Glu His His Ala Ala Ala Pro Asn Gly Leu Pro Gly Phe Ser Val
260 265 270

Glu Asn Ile Met Thr Leu Arg Thr Ser Pro Pro Gly Gly Glu Leu Ser
275 280 285

Pro Gly Ala Gly Arg Ala Gly Leu Val Val Pro Pro Leu Ala Leu Pro
290 295 300

Tyr Ala Ala Ala Pro Pro Ala Ala Tyr Gly Gln Pro Cys Ala Gln Gly
305 310 315 320

Leu Glu Ala Gly Ala Ala Gly Gly Tyr Gln Cys Ser Met Arg Ala Met
325 330 335

Ser Leu Tyr Thr Gly Ala Glu Arg Pro Ala His Met Cys Val Pro Pro
340 345 350

Ala Leu Asp Glu Ala Leu Ser Asp His Pro Ser Gly Pro Thr Ser Pro
355 360 365

Leu Ser Ala Leu Asn Leu Ala Ala Gly Gln Glu Gly Ala Leu Ala Ala
370 375 380

Thr Gly His His His Gln His His Gly His His His Pro Gln Ala Pro
385 390 395 400

Pro Pro Pro Pro Ala Pro Gln Pro Gln Pro Thr Pro Gln Pro Gly Ala
405 410 415

Ala Ala Ala Gln Ala Ala Ser Trp Tyr Leu Asn His Ser Gly Asp Leu
420 425 430

Asn His Leu Pro Gly His Thr Phe Ala Ala Gln Gln Gln Thr Phe Pro
435 440 445

Asn Val Arg Glu Met Phe Asn Ser His Arg Leu Gly Ile Glu Asn Ser
450 455 460

Thr Leu Gly Glu Ser Gln Val Ser Gly Asn Ala Ser Cys Gln Leu Pro
465 470 475 480

Tyr Arg Ser Thr Pro Pro Leu Tyr Arg His Ala Ala Pro Tyr Ser Tyr
485 490 495

Asp Cys Thr Lys Tyr
500

<210> 62
<211> 388
<212> PRT
<213> Homo sapiens

WAY10252sequencelistingST25

<400> 62

Met Ala Ser Leu Leu Gly Ala Tyr Pro Trp Pro Glu Gly Leu Glu Cys
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 Pro Ala Leu Asp Ala Glu Leu Ser Asp Gly Gln Ser Pro Pro Ala Val
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 Pro Arg Pro Pro Gly Asp Lys Gly Ser Glu Ser Arg Ile Arg Arg Pro
 35 40 45
 Met Asn Ala Phe Met Val Trp Ala Lys Asp Glu Arg Lys Arg Leu Ala
 50 55 60
 Val Gln Asn Pro Asp Leu His Asn Ala Glu Leu Ser Lys Met Leu Gly
 65 70 75 80
 Lys Ser Trp Lys Ala Leu Thr Leu Ser Gln Lys Arg Pro Tyr Val Asp
 85 90 95
 Glu Ala Glu Arg Leu Arg Leu Gln His Met Gln Asp Tyr Pro Asn Tyr
 100 105 110
 Lys Tyr Arg Pro Arg Arg Lys Lys Gln Ala Lys Arg Leu Cys Lys Arg
 115 120 125
 Val Asp Pro Gly Phe Leu Leu Ser Ser Leu Ser Arg Asp Gln Asn Ala
 130 135 140
 Leu Pro Glu Lys Arg Ser Gly Ser Arg Gly Ala Leu Gly Glu Lys Glu
 145 150 155 160
 Asp Arg Gly Glu Tyr Ser Pro Gly Thr Ala Leu Pro Ser Leu Arg Gly
 165 170 175
 Cys Tyr His Glu Gly Pro Ala Gly Gly Gly Gly Gly Gly Thr Pro Ser
 180 185 190
 Ser Val Asp Thr Tyr Pro Tyr Gly Leu Pro Thr Pro Pro Glu Met Ser
 195 200 205
 Pro Leu Asp Val Leu Glu Pro Glu Gln Thr Phe Phe Ser Ser Pro Cys
 210 215 220
 Gln Glu Glu His Gly His Pro Arg Arg Ile Pro His Leu Pro Gly His
 225 230 235 240
 Pro Tyr Ser Pro Glu Tyr Ala Pro Ser Pro Leu His Cys Ser His Pro
 245 250 255
 Leu Gly Ser Leu Ala Leu Gly Gln Ser Pro Gly Val Ser Met Met Ser

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260

265

270

Pro Val Pro Gly Cys Pro Pro Ser Pro Ala Tyr Tyr Ser Pro Ala Thr
275 280 285

Tyr His Pro Leu His Ser Asn Leu Gln Ala His Leu Gly Gln Leu Ser
290 295 300

Pro Pro Pro Glu His Pro Gly Phe Asp Ala Leu Asp Gln Leu Ser Gln
305 310 315 320

Val Glu Leu Leu Gly Asp Met Asp Arg Asn Glu Phe Asp Gln Tyr Leu
325 330 335

Asn Thr Pro Gly His Pro Asp Ser Ala Thr Gly Ala Met Ala Leu Ser
340 345 350

Gly His Val Pro Val Ser Gln Val Thr Pro Thr Gly Pro Thr Glu Thr
355 360 365

Ser Leu Ile Ser Val Leu Ala Asp Ala Thr Ala Thr Tyr Tyr Asn Ser
370 375 380

Tyr Ser Val Ser
385

<210> 63
<211> 384
<212> PRT
<213> Homo sapiens

<400> 63

Met Gln Arg Ser Pro Pro Gly Tyr Gly Ala Gln Asp Asp Pro Pro Ala
1 5 10 15

Arg Arg Asp Cys Ala Trp Ala Pro Gly His Gly Ala Ala Ala Asp Thr
20 25 30

Arg Gly Leu Ala Ala Gly Pro Ala Ala Leu Ala Ala Pro Ala Ala Pro
35 40 45

Ala Ser Pro Pro Ser Pro Gln Arg Ser Pro Pro Arg Ser Pro Glu Pro
50 55 60

Gly Arg Tyr Gly Leu Ser Pro Ala Gly Arg Gly Glu Arg Gln Ala Ala
65 70 75 80

Asp Glu Ser Arg Ile Arg Arg Pro Met Asn Ala Phe Met Val Trp Ala
85 90 95

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

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Ala Val Leu Ser Lys Met Leu Gly Lys Ala Trp Lys Glu Leu Asn Ala
115 120 125

Ala Glu Lys Arg Pro Phe Val Glu Glu Ala Glu Arg Leu Arg Val Gln
130 135 140

His Leu Arg Asp His Pro Asn Tyr Lys Tyr Arg Pro Arg Arg Lys Lys
145 150 155 160

Gln Ala Arg Lys Ala Arg Arg Leu Glu Pro Gly Leu Leu Leu Pro Gly
165 170 175

Leu Ala Pro Pro Gln Pro Pro Pro Glu Pro Phe Pro Ala Ala Ser Gly
180 185 190

Ser Ala Arg Ala Phe Arg Glu Leu Pro Pro Leu Gly Ala Glu Phe Asp
195 200 205

Gly Leu Gly Leu Pro Thr Pro Glu Arg Ser Pro Leu Asp Gly Leu Glu
210 215 220

Pro Gly Glu Ala Ala Phe Phe Pro Pro Pro Ala Ala Pro Glu Asp Cys
225 230 235 240

Ala Leu Arg Pro Phe Arg Ala Pro Tyr Ala Pro Thr Glu Leu Ser Arg
245 250 255

Asp Pro Gly Gly Cys Tyr Gly Ala Pro Leu Ala Glu Ala Leu Arg Thr
260 265 270

Ala Pro Pro Ala Ala Pro Leu Ala Gly Leu Tyr Tyr Gly Thr Leu Gly
275 280 285

Thr Pro Gly Pro Tyr Pro Gly Pro Leu Ser Pro Pro Pro Glu Ala Pro
290 295 300

Pro Leu Glu Ser Ala Glu Pro Leu Gly Pro Ala Ala Asp Leu Trp Ala
305 310 315 320

Asp Val Asp Leu Thr Glu Phe Asp Gln Tyr Leu Asn Cys Ser Arg Thr
325 330 335

Arg Pro Asp Ala Pro Gly Leu Pro Tyr His Val Ala Leu Ala Lys Leu
340 345 350

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

Leu Ser Asp Ala Ser Ser Ala Val Tyr Tyr Ser Ala Cys Ile Ser Gly
370 375 380

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<210> 64
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> his tag

<400> 64

His His His His His His Ser Ser
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<210> 65
 <211> 954
 <212> DNA
 <213> Homo sapiens

<400> 65
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 gtcaagcggc ccatgaatgc cttcatggtg tgggtcccgc ggcagcggcg caagatggcc 180
 caggagaacc ccaagatgca caactcggag atcagcaagc gcctgggcg cgagtggaaa 240
 cttttgtcgg agacggagaa gcggccgttc atcgacgagg ctaagcggct gcgagcgctg 300
 cacatgaagg agcaccgcga ttataaatac cggccccggc ggaaaaccaa gacgctcatg 360
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<210> 66
 <211> 1083
 <212> DNA
 <213> Homo sapiens

<400> 66
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 cctcctggag ggccaggaat cgggccgggg gttgggccag gctctgaggt gtgggggatt 180
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gccgtgaagc	tggagaagga	gaagctggag	caaaacccgg	aggagtcca	ggacatcaaa	420
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tga						1083

<210> 67
 <211> 918
 <212> DNA
 <213> Homo sapiens

<400> 67						
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taccaccagg	gatgcctggg	gaacccgact	gggaaccttc	caatgtggag	caaccagacc	600
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918

<210> 68
 <211> 630
 <212> DNA
 <213> Homo sapiens

<400> 68
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 gcgggcatct gtaagtgggt caacgtgcgc atggggttcg gcttcctgtc catgaccgcc 180
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 gagaggcggc caaaaggaaa gagcatgcag aagcgcagat caaaaggaga cagggtgctac 420
 aactgtggag gtctagatca tcatgccaag gaatgcaagc tgccacccca gcccaagaag 480
 tgccacttct gccagagcat cagccatatg gtagcctcat gtccgctgaa ggcccagcag 540
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 cctaccctgc tcccggaggc acagaattga 630

<210> 69
 <211> 1440
 <212> DNA
 <213> Homo sapiens

<400> 69
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 ccagggtggc ggctgatggg caagtctgtg ctgaaggcgt cgctgagcgc ccctggcagc 720
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 gcggtctctt cgtgcacca cttgggcgct ggaccccctc tcagcaatgg ccaccggccg 900

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catccccacc	cggggcccac	ttacccatcc	ttcctgcccc	atcagatgca	gccgcaagtc	1080
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gcgggctg	gcaaaccta	cacaaagagt	tcccatctca	aggcacacct	gcgaaccac	1260
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<210> 70
 <211> 1365
 <212> DNA
 <213> Homo sapiens

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	gacgaggagg	agaacttcta	ccagcagcag	cagcagagcg	agctgcagcc	cccggcgccc	180
	agcgaggata	tctggaagaa	attcgagctg	ctgcccaccc	cgcccctgtc	ccctagccgc	240
	cgctccgggc	tctgctcgcc	ctcctacgtt	gcggtcacac	ccttctccct	tcggggagac	300
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	cccaccacca	gcagcgactc	tgaggaggaa	caagaagatg	aggaagaaat	cgatgttgtt	840
	tctgtggaaa	agaggcaggc	tcctggcaaa	aggtcagagt	ctggatcacc	ttctgctgga	900
	ggccacagca	aacctcctca	cagcccactg	gtcctcaaga	ggtgccacgt	ctccacacat	960
	cagcacaact	acgcagcgcc	tccctccact	cggaaggact	atcctgctgc	caagaggggtc	1020
	aagttggaca	gtgtcagagt	cctgagacag	atcagcaaca	accgaaaatg	caccagcccc	1080
	aggtcctc	acaccgagga	gaatgtcaag	aggcgaacac	acaacgtctt	ggagcgccag	1140
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	aacaatgaaa	aggcccccaa	ggtagttatc	cttaaaaaag	ccacagcata	catcctgtcc	1260
	gtccaagcag	aggagcaaaa	gctcatttct	gaagaggact	tggtgcggaa	acgacgagaa	1320

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<210> 71
 <211> 1329
 <212> DNA
 <213> Homo sapiens

<400> 71
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 acaccgcggg tgccctcctc cgtgctgggc ctgtcctacc tccagggcgg aggcgcgggc 180
 tctgcgtccg gaggcgcctc gggcggcagc tccggtgggg ccgcgtcttg tgcggggccc 240
 gggaccagc agggcagccc gggatggagc caggcgggag ccgacggagc cgcttacacc 300
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 <212> DNA
 <213> Homo sapiens

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 <211> 1050
 <212> DNA
 <213> Homo sapiens

<400> 74						
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 <211> 645
 <212> DNA
 <213> Homo sapiens

<400> 75						
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 <211> 1032
 <212> DNA
 <213> Homo sapiens

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 <211> 852
 <212> DNA
 <213> Homo sapiens

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 <211> 1062
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<213> Homo sapiens

<400> 82

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<211> 3831

<212> DNA

<213> Homo sapiens

<400> 83

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 <212> DNA
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 <212> DNA
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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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