

67858o711002

Sequence Listing

<110> Patti McNeill
Leon F. Garcia-Martinez
Nicole Janson
Gary Lesnicki
Pei Qi
John Latham

<120> HIGH-PURITY PRODUCTION OF MULTI-SUBUNIT PROTEINS
SUCH AS ANTIBODIES IN TRANSFORMED MICROBES SUCH
AS PICHIA PASTORIS

<130> 67858.711002

<150> 61/525,307

<151> 2011-08-19

<150> 61/496,860

<151> 2011-06-14

<150> 61/496,873

<151> 2011-06-14

<150> 61/418,832

<151> 2010-12-01

<160> 441

<170> PatentIn version 3.5

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

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

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

Ser Gly Ser Gly Thr Glu Tyr Thr Leu Thr Ile Ser Asp Leu Glu Cys
65 70 75 80

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

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

Ser Gly Ser Gly Thr Glu Tyr Thr Leu Thr Ile Ser Asp Leu Glu Cys
65 70 75 80

Asp Asp Val Gly Thr Tyr Tyr Cys Gln Ser Ala Phe Asp Ser Asp Ser
85 90 95

Thr Glu Asn Thr Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg Thr
100 105 110

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

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

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
145 150 155 160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
165 170 175

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
180 185 190

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
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Thr Lys Ser Phe Asn Arg Gly Glu Cys
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1 5 10 15

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

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

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

Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Lys Ile Thr
65 70 75 80

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

Asp Asp Tyr Asp Glu Met Thr Tyr Phe Asn Ile Trp Gly Gln Gly Thr
100 105 110

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

Val Ile Thr Ser Ile Gly Ser Thr Val Tyr Ala Ser Trp Ala Lys Gly
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Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Lys Ile Thr
 65 70 75 80

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

Asp Asp Tyr Asp Glu Met Thr Tyr Phe Asn Ile Trp Gly Gln Gly Thr
 100 105 110

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

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

Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn
 145 150 155 160

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

Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser
 180 185 190

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

Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr
 210 215 220

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

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
 245 250 255

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
 260 265 270

Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
 275 280 285

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

Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr
325 330 335

Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
340 345 350

Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
355 360 365

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
370 375 380

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
385 390 395 400

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
405 410 415

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
420 425 430

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

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

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

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

Thr Glu Asn Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105 110

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

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

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

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

Thr Glu Asn Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr
100 105 110

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

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

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
145 150 155 160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
165 170 175

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Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
 180 185 190

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
 195 200 205

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

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

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

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

Arg Gly Tyr Asp Asp Tyr Asp Glu Met Thr Tyr Phe Asn Ile Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Ser Tyr

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30

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

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

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

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

Arg Gly Tyr Asp Asp Tyr Asp Glu Met Thr Tyr Phe Asn Ile Trp Gly
100 105 110

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

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
130 135 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145 150 155 160

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
165 170 175

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
180 185 190

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
195 200 205

Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys
210 215 220

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
225 230 235 240

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
245 250 255

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
260 265 270

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Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
275 280 285

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr
290 295 300

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
305 310 315 320

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
325 330 335

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
340 345 350

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

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
370 375 380

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
385 390 395 400

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
405 410 415

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

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Tyr Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Arg Leu Leu
35 40 45

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

Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Gly Val Gln
65 70 75 80

Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Asp Tyr Asp Asp Asp
85 90 95

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

Tyr Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Arg Leu Leu
35 40 45

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

Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Gly Val Gln
65 70 75 80

Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Asp Tyr Asp Asp Asp
85 90 95

Ala Asp Asn Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg Thr
100 105 110

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

Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro

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130

135

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
145 150 155 160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
165 170 175

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
180 185 190

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
195 200 205

Thr Lys Ser Phe Asn Arg Gly Glu Cys
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Gln Ser Val Glu Glu Ser Gly Gly Arg Leu Val Thr Pro Gly Thr Pro
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Leu Thr Leu Thr Cys Thr Val Ser Gly Phe Ser Leu Ser Ser Tyr Val
20 25 30

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

Ile Thr Trp Ser Ala Gly Thr Tyr Tyr Ala Ser Trp Ala Lys Gly Arg
50 55 60

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

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

Gly Ser Ile Tyr Asp Ile Trp Gly Pro Gly Thr Leu Val Thr Val Ser
100 105 110

Ser

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20 25 30

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

Ile Thr Trp Ser Ala Gly Thr Tyr Tyr Ala Ser Trp Ala Lys Gly Arg
50 55 60

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

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

Gly Ser Ile Tyr Asp Ile Trp Gly Pro Gly Thr Leu Val Thr Val Ser
100 105 110

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

Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp
130 135 140

Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr
145 150 155 160

Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr
165 170 175

Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln
180 185 190

Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp
195 200 205

Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
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Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro

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Asp Ala Ser Asn Leu Pro Ser
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Leu Gly Asp Tyr Asp Asp Asp Ala Asp Asn Ala
1 5 10

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Ser Tyr Val Met Ile
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Ile Thr Trp Ser Ala Gly Thr Tyr Tyr Ala Ser Trp Ala Lys Gly
1 5 10 15

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

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

Asn Tyr Leu Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu
35 40 45

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

Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu
65 70 75 80

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

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Asn Tyr Leu Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu
35 40 45

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

Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu
65 70 75 80

Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Leu Gly Asp Tyr Asp Asp
85 90 95

Asp Ala Asp Asn Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105 110

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Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
115 120 125

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

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
145 150 155 160

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
165 170 175

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
180 185 190

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
195 200 205

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

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

Gly Ile Thr Trp Ser Ala Gly Thr Tyr Tyr Ala Ser Ser Ala Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
65 70 75 80

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

Gly Gly Gly Ser Ile Tyr Asp Ile Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

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Val Ser Ser
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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Ser Tyr
20 25 30

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

Gly Ile Thr Trp Ser Ala Gly Thr Tyr Tyr Ala Ser Ser Ala Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
65 70 75 80

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

Gly Gly Gly Ser Ile Tyr Asp Ile Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

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

Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val
130 135 140

Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala
145 150 155 160

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

Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly
180 185 190

Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys
195 200 205

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Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys
210 215 220

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

Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
245 250 255

Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys
260 265 270

Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
275 280 285

Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu
290 295 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305 310 315 320

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

Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
340 345 350

Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
355 360 365

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
370 375 380

Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
385 390 395 400

Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
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Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
420 425 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
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Gln Ser Ser Gln Ser Val Tyr Lys Asn Asn Tyr Leu Ser
1 5 10

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

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

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

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

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Leu Ala Trp Tyr Gln Gln Arg Pro Gly Gln Pro Pro Lys Leu Leu Ile
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Tyr Asp Ala Ser Thr Leu Glu Ser Gly Val Pro Ser Arg Phe Lys Gly
50 55 60

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

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Ala Asp Ala Ala Ser Tyr Tyr Cys Gln Gln Gly Phe Thr Val Ser Asp
85 90 95

Ile Asp Asn Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg Thr
100 105 110

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

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

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
145 150 155 160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
165 170 175

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

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

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Ser Pro Thr Ser Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg Gly Tyr
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Leu Val Thr Val Ser Ser
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35 40 45

Ile Ile Gly Arg Asn Gly Asn Thr Trp Tyr Ala Ser Trp Ala Arg Gly
50 55 60

Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Lys Ile Thr
65 70 75 80

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

Gly Arg Ser Val Ala Tyr Tyr Val Phe Asn Ile Trp Gly Pro Gly Thr
100 105 110

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

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

Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn
145 150 155 160

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

Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser
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Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr
210 215 220

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

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
245 250 255

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
260 265 270

Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
275 280 285

Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val
290 295 300

Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
305 310 315 320

Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr
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Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
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Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
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Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
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Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
385 390 395 400

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

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

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

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85 90 95

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

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

Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Phe Thr Val Ser Asp
85 90 95

Ile Asp Asn Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr
100 105 110

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

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

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
145 150 155 160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
165 170 175

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
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Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
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Thr Lys Ser Phe Asn Arg Gly Glu Cys
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Gly Ile Ile Gly Arg Asn Gly Asn Thr Trp Tyr Ala Ser Ser Ala Arg
50 55 60

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

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

Gly Ile Ile Gly Arg Asn Gly Asn Thr Trp Tyr Ala Ser Ser Ala Arg
50 55 60

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

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

Arg Gly Tyr Gly Arg Ser Val Ala Tyr Tyr Val Phe Asn Ile Trp Gly
100 105 110

Pro Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
115 120 125

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
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 Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
 145 150 155 160
 Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
 165 170 175
 Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
 180 185 190
 Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
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 Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys
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 Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
 225 230 235 240
 Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
 245 250 255
 Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
 260 265 270
 Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
 275 280 285
 His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr
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 Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 305 310 315 320
 Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
 325 330 335
 Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
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 Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
 355 360 365
 Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
 370 375 380
 Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
 385 390 395 400

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Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
405 410 415

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

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

Gly Ser Gly Ser Gly Thr Glu Tyr Thr Leu Thr Ile Ser Gly Leu Glu
65 70 75 80

Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Asn Asn Tyr Leu Val Thr
85 90 95

Thr Tyr Gly Val Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
100 105 110

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<400> 62

Ala Asp Val Val Met Thr Gln Thr Pro Ala Ser Val Ser Gln Pro Val
Page 32

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Gly Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Glu Asp Ile Tyr Asn	20	25	30
Leu Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu	35	40	45
Ile Tyr Ser Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Lys	50	55	60
Gly Ser Gly Ser Gly Thr Glu Tyr Thr Leu Thr Ile Ser Gly Leu Glu	65	70	75
Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Asn Asn Tyr Leu Val Thr	85	90	95
Thr Tyr Gly Val Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg	100	105	110
Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln	115	120	125
Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr	130	135	140
Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser	145	150	155
Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr	165	170	175
Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys	180	185	190
His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro	195	200	205
Val Thr Lys Ser Phe Asn Arg Gly Glu Cys	210	215	

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Gln Glu Gln Leu Lys Glu Ser Gly Gly Arg Leu Val Thr Pro Gly Thr
 Page 33

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Pro	Leu Thr 20	Cys Thr Val Ser 25	Gly Phe Ser Leu Ser 30
Ala Met	Ile Trp Val Arg Gln 35	Ala Pro Gly Lys Gly 40	Leu Glu Tyr Ile 45
Gly Tyr 50	Ile Asp Thr Asp Thr 55	Ser Ala Tyr Tyr Ala 60	Ser Trp Val Lys
Gly 65	Arg Phe Thr Ile Ser 70	Arg Thr Ser Thr Thr 75	Val Asp Leu Lys Ile 80
Thr Ser Pro Thr 85	Thr Glu Asp Thr Ala 90	Thr Tyr Phe Cys Ala 95	Arg Ser
Tyr Ala Ala Tyr 100	Gly Gly Tyr Pro Ala 105	Thr Phe Asp Pro Trp 110	Gly Pro
Gly Thr 115	Leu Val Thr Val Ser 120		

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35 40 45

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

Gly Arg Phe Thr Ile Ser Arg Thr Ser Thr Thr Val Asp Leu Lys Ile
65 70 75 80

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

Tyr Ala Ala Tyr Gly Gly Tyr Pro Ala Thr Phe Asp Pro Trp Gly Pro

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100

105

110

Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
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 Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala
 130 135 140
 Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
 145 150 155 160
 Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
 165 170 175
 Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
 180 185 190
 Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
 195 200 205
 Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp
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 Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 225 230 235 240
 Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
 245 250 255
 Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
 260 265 270
 Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
 275 280 285
 Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg
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 Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
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 Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
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 Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
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Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
355 360 365

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
370 375 380

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
385 390 395 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
405 410 415

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

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

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

Glu Asp Val Ala Thr Tyr Tyr Cys Gln Asn Asn Tyr Leu Val Thr Thr
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Tyr Gly Val Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg

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110

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35 40 45

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

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

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

Tyr Gly Val Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr
100 105 110

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

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

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
145 150 155 160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
165 170 175

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

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

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

Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
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115 120

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

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

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

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

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

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

Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr
130 135 140

Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr
145 150 155 160

Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
165 170 175

Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr
180 185 190

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

His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser
210 215 220

Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
225 230 235 240

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
245 250 255

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
260 265 270

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
275 280 285

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr
290 295 300

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn

305 310 678580711002 315 320
 Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 325 330 335
 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
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 Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val
 355 360 365
 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
 370 375 380
 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
 385 390 395 400
 Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
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 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
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Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Glu Asn Ile Gly Ser Tyr
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Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Glu Leu Leu Ile
35 40 45

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

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

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

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

Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Gly Tyr Asn Ser Glu Asn
85 90 95

Leu Asp Asn Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg Thr
100 105 110

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

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

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
145 150 155 160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
165 170 175

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Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
180 185 190

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
195 200 205

Thr Lys Ser Phe Asn Arg Gly Glu Cys
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20 25 30

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

Trp Ile Ser Tyr Gly Gly Thr Ala Tyr Tyr Ala Ser Trp Ala Lys Gly
50 55 60

Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Glu Leu Lys Ile Thr
65 70 75 80

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

Pro Val Asn Tyr Tyr Leu Asp Ile Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
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20 25 30

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

Trp Ile Ser Tyr Gly Gly Thr Ala Tyr Tyr Ala Ser Trp Ala Lys Gly
50 55 60

Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Glu Leu Lys Ile Thr
65 70 75 80

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

Pro Val Asn Tyr Tyr Leu Asp Ile Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

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

Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val
130 135 140

Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala
145 150 155 160

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

Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly
180 185 190

Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys
195 200 205

Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys
210 215 220

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

Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
245 250 255

Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys
260 265 270

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Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
275 280 285

Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu
290 295 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305 310 315 320

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

Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
340 345 350

Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
355 360 365

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
370 375 380

Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
385 390 395 400

Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
405 410 415

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His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
435 440 445

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Gln Ala Ser Glu Asn Ile Gly Ser Tyr Leu Ala
1 5 10

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Arg Ala Ser Thr Leu Ala Ser
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Gln Gln Gly Tyr Asn Ser Glu Asn Leu Asp Asn Ala
1 5 10

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<400> 88

Met Tyr Ser Met Gly
1 5

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
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Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu Leu Ile
35 40 45

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

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

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

Leu Asp Asn Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr
100 105 110

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

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

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Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
145 150 155 160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
165 170 175

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
180 185 190

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
195 200 205

Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

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Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr
20 25 30

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

Gly Trp Ile Ser Tyr Gly Gly Thr Ala Tyr Tyr Ala Ser Ser Ala Lys
50 55 60

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

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

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

Gly Trp Ile Ser Tyr Gly Gly Thr Ala Tyr Tyr Ala Ser Ser Ala Lys
50 55 60

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

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

Arg Glu Thr Pro Val Asn Tyr Tyr Leu Asp Ile Trp Gly Gln Gly Thr
100 105 110

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

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

Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn
145 150 155 160

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

Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser
180 185 190

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

Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr
210 215 220

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

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Val Phe Leu Phe Pro₂₄₅ Pro Lys Pro Lys Asp₂₅₀ Thr Leu Met Ile Ser₂₅₅ Arg

Thr Pro Glu Val₂₆₀ Thr Cys Val Val₂₆₅ Val Asp Val Ser His Glu₂₇₀ Asp Pro

Glu Val Lys₂₇₅ Phe Asn Trp Tyr Val₂₈₀ Asp Gly Val Glu Val₂₈₅ His Asn Ala

Lys Thr₂₉₀ Lys Pro Arg Glu Glu₂₉₅ Gln Tyr Ala Ser Thr₃₀₀ Tyr Arg Val Val

Ser Val₃₀₅ Leu Thr Val₃₁₀ Leu His Gln Asp Trp Leu₃₁₅ Asn Gly Lys Glu Tyr₃₂₀

Lys Cys Lys Val₃₂₅ Ser Asn Lys Ala Leu Pro₃₃₀ Ala Pro Ile Glu Lys₃₃₅ Thr

Ile Ser Lys Ala₃₄₀ Lys Gly Gln Pro Arg₃₄₅ Glu Pro Gln Val Tyr₃₅₀ Thr Leu

Pro Pro Ser₃₅₅ Arg Glu Glu Met Thr₃₆₀ Lys Asn Gln Val Ser₃₆₅ Leu Thr Cys

Leu Val₃₇₀ Lys Gly Phe Tyr Pro₃₇₅ Ser Asp Ile Ala Val₃₈₀ Glu Trp Glu Ser

Asn Gly Gln Pro Glu Asn₃₉₀ Asn Tyr Lys Thr Thr₃₉₅ Pro Pro Val Leu Asp₄₀₀

Ser Asp Gly Ser Phe₄₀₅ Phe Leu Tyr Ser Lys₄₁₀ Leu Thr Val Asp Lys₄₁₅ Ser

Arg Trp Gln Gln₄₂₀ Gly Asn Val Phe Ser₄₂₅ Cys Ser Val Met His₄₃₀ Glu Ala

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Arg Ala Ser Thr Leu Ala Ser
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Gln Gln Gly Tyr Asn Ser Glu Asn Leu Asp Asn Ala
1 5 10

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Met Tyr Ser Met Gly
1 5

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Ala Phe Glu Leu Thr Gln Thr Pro Ser Ser Val Glu Ala Ala Val Gly
1 5 10 15

Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Gln Asn Ile Val Thr Asn
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Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
35 40 45

Tyr Gly Ala Ser Thr Leu Ala Ser Gly Val Ser Ser Arg Phe Lys Gly
50 55 60

Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
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85 90 95

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

Tyr Gly Ala Ser Thr Leu Ala Ser Gly Val Ser Ser Arg Phe Lys Gly
50 55 60

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

Ala Asp Ala Ala Thr Tyr Phe Cys Gln Ser Tyr Asp Gly Phe Asn Ser
85 90 95

Ala Gly Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg Thr Val Ala
100 105 110

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

Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
130 135 140

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

Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu
165 170 175

Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val
180 185 190

Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys
195 200 205

Ser Phe Asn Arg Gly Glu Cys
210 215

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

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

Leu Ile Ser Tyr Asp Gly Asn Thr Tyr Tyr Ala Thr Trp Ala Lys Gly
50 55 60

Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Lys Ile Thr
65 70 75 80

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

Tyr Ala Gly Pro Asn Ala Gly Ile Gly Pro Phe Asn Ile Trp Gly Gln
100 105 110

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Gly Thr Leu Val Thr Val Ser Ser
115 120

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Gln Ser Leu Glu Glu Ser Gly Gly Arg Leu Val Thr Pro Gly Thr Pro
1 5 10 15

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

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

Leu Ile Ser Tyr Asp Gly Asn Thr Tyr Tyr Ala Thr Trp Ala Lys Gly
50 55 60

Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Lys Ile Thr
65 70 75 80

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

Tyr Ala Gly Pro Asn Ala Gly Ile Gly Pro Phe Asn Ile Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
115 120 125

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

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145 150 155 160

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
165 170 175

Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
180 185 190

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
195 200 205

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 Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp
 210 215 220
 Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 225 230 235 240
 Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
 245 250 255
 Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
 260 265 270
 Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
 275 280 285
 Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg
 290 295 300
 Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
 305 310 315 320
 Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
 325 330 335
 Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
 340 345 350
 Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
 355 360 365
 Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
 370 375 380
 Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
 385 390 395 400
 Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
 405 410 415
 Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
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 Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
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 Gly Lys
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Gln Ala Ser Gln Asn Ile Val Thr Asn Leu Ala
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Gly Ala Ser Thr Leu Ala Ser
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Gln Ser Tyr Asp Gly Phe Asn Ser Ala Gly
1 5 10

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Gly Tyr Asp Met Ser
1 5

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

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

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

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

Glu Asp Val Ala Thr Tyr Tyr Cys Gln Ser Tyr Asp Gly Phe Asn Ser
85 90 95

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

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
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65 70 80
Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95

Arg Ser Leu Tyr Ala Gly Pro Asn Ala Gly Ile Gly Pro Phe Asn Ile
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

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

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

Gly Leu Ile Ser Tyr Asp Gly Asn Thr Tyr Tyr Ala Thr Ser Ala Lys
 50 55 60

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

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

Arg Ser Leu Tyr Ala Gly Pro Asn Ala Gly Ile Gly Pro Phe Asn Ile
 100 105 110

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

Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
 130 135 140

Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
145 150 155 160

Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe

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170

165

175

Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
180 185 190

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

Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys
210 215 220

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
225 230 235 240

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
245 250 255

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
260 265 270

Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
275 280 285

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser
290 295 300

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
305 310 315 320

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
325 330 335

Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
340 345 350

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

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
370 375 380

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
385 390 395 400

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
405 410 415

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 Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
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 435 440 445

Leu Ser Pro Gly Lys
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Gly Ala Ser Thr Leu Ala Ser
 1 5

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Gln Ser Tyr Asp Gly Phe Asn Ser Ala Gly
 1 5 10

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Gly Tyr Asp Met Ser
 1 5

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

Asn Tyr Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu
35 40 45

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

Lys Gly Gly Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asp Val
65 70 75 80

Gln Cys Asp Ala Ala Ala Thr Tyr Tyr Cys Ala Gly Gly Tyr Thr Ser
85 90 95

Ser Ser Asp Asn Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
100 105 110

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Ala Ala Val Leu Thr Gln Thr Pro Ser Pro Val Ser Ala Ala Val Gly
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Gly Thr Val Ser Ile Ser Cys Gln Ser Ser Gln Asn Val Tyr Lys Asn
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Asn Tyr Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu
35 40 45

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

Lys Gly Gly Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asp Val
65 70 75 80

Gln Cys Asp Ala Ala Ala Thr Tyr Tyr Cys Ala Gly Gly Tyr Thr Ser
85 90 95

Ser Ser Asp Asn Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
100 105 110

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
115 120 125

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

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
145 150 155 160

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
165 170 175

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
180 185 190

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
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Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

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<213> Oryctolagus cuniculus

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Gln Ser Val Glu Ala Ser Gly Gly Arg Leu Val Thr Pro Gly Thr Pro
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Leu Thr Leu Thr Cys Thr Ala Ser Gly Phe Ser Leu Ser Thr Tyr Trp
20 25 30

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

Asp Ile Tyr Phe Ser Asn Glu Glu Thr Asn Tyr Ala Ser Trp Ala Lys
50 55 60

Gly Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Asn Val
65 70 75 80

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

Ser Pro Asp Val Asp Ile Gly Ile Asp Met Trp Gly Pro Gly Thr Leu
100 105 110

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

Asp Ile Tyr Phe Ser Asn Glu Glu Thr Asn Tyr Ala Ser Trp Ala Lys
50 55 60

Gly Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Asn Val
65 70 75 80

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

Ser Pro Asp Val Asp Ile Gly Ile Asp Met Trp Gly Pro Gly Thr Leu
100 105 110

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

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

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
145 150 155 160

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

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
180 185 190

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

Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His
210 215 220

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

Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
245 250 255

Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
260 265 270

Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
275 280 285

Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser
290 295 300

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
305 310 315 320

Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile
325 330 335

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
340 345 350

Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
355 360 365

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn

370 375 678580711002 380

Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
385 390 395 400

Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
405 410 415

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

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

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

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

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

Ser Ser Asp Asn Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105 110

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

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

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

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

Ser Ser Asp Asn Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105 110

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
115 120 125

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

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
145 150 155 160

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
165 170 175

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
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His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
195 200 205

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
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35 40 45

Gly Asp Ile Tyr Phe Ser Asn Glu Glu Thr Asn Tyr Ala Ser Ser Ala
50 55 60

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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Ala Arg Gly Ser Pro Asp Val Asp Ile Gly Ile Asp Met Trp Gly Pro
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Gly Thr Leu Val Thr Val Ser Ser
115 120

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

Gly Asp Ile Tyr Phe Ser Asn Glu Glu Thr Asn Tyr Ala Ser Ser Ala
50 55 60

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

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

Ala Arg Gly Ser Pro Asp Val Asp Ile Gly Ile Asp Met Trp Gly Pro
100 105 110

Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
115 120 125

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

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145 150 155 160

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
165 170 175

Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
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Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
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Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp
210 215 220

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
225 230 235 240

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
245 250 255

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
260 265 270

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
275 280 285

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg
290 295 300

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
305 310 315 320

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
325 330 335

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Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
340 345 350

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
355 360 365

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
370 375 380

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
385 390 395 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
405 410 415

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
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Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
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Gly Lys
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Lys Ala Ser Thr Leu Ala Ser
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Ala Gly Gly Tyr Thr Ser Ser Ser Asp Asn Ala
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Thr Tyr Trp Met Ser
 1 5

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Asn Tyr Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu
 35 40 45

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

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Ser Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Gly Val
65 70 75 80

Gln Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Asp Tyr Asp Asp
85 90 95

Asp Thr Asp Asn Gly Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
100 105 110

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Asn Tyr Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu
35 40 45

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

Ser Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Gly Val
65 70 75 80

Gln Cys Asp Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Asp Tyr Asp Asp
85 90 95

Asp Thr Asp Asn Gly Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
100 105 110

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
115 120 125

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

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
145 150 155 160

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
165 170 175

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Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
180 185 190

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
195 200 205

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

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

Ile Ile Trp Ser Gly Gly Thr Tyr Tyr Ala Thr Trp Ala Lys Gly Arg
50 55 60

Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Gln Ile Thr Ser
65 70 75 80

Pro Thr Thr Glu Asp Ala Ala Thr Tyr Phe Cys Ala Ala Gly Gly Gly
85 90 95

Ser Ile Tyr Asp Val Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
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Met Ile Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Ile Gly
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Ile Ile Trp Ser Gly Gly Thr Tyr Tyr Ala Thr Trp Ala Lys Gly Arg
50 55 60

Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Gln Ile Thr Ser
65 70 75 80

Pro Thr Thr Glu Asp Ala Ala Thr Tyr Phe Cys Ala Ala Gly Gly Gly
85 90 95

Ser Ile Tyr Asp Val Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
100 105 110

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

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
130 135 140

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

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
165 170 175

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
180 185 190

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
195 200 205

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
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Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
225 230 235 240

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
245 250 255

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
260 265 270

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
275 280 285

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Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
290 295 300

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
305 310 315 320

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
325 330 335

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
340 345 350

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
355 360 365

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
370 375 380

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
385 390 395 400

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
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Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
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Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
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Gln Ser Ser Gln Ser Val Tyr Lys Asn Asn Tyr Leu Ser
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Asp Ala Ser Asn Leu Pro Ser
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Leu Gly Asp Tyr Asp Asp Asp Thr Asp Asn Gly
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Ser Tyr Ala Met Ile
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Ile Ile Trp Ser Gly Gly Thr Tyr Tyr Ala Thr Trp Ala Lys Gly
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Gly Gly Gly Ser Ile Tyr Asp Val
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Tyr Ser Thr Ser Lys Leu Ala Thr Gly Val Pro Lys Arg Phe Ser Gly
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Ser Arg Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
 65 70 75 80

Asp Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Val Tyr Ser Tyr Ile Ser
 85 90 95

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

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

Ser Arg Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys
 65 70 75 80

Asp Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Val Tyr Ser Tyr Ile Ser
 85 90 95

Asp Asp Gly Asn Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
 100 105 110

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
 115 120 125

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

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
 145 150 155 160

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
165 170 175

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
180 185 190

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
195 200 205

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

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

Ile Ile Gly Ser Ile Gly Thr Thr Tyr Tyr Ala Ser Trp Ala Lys Gly

Arg Phe Phe Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Lys Ile Ile
65 70 75 80

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

Gly Val Thr Val Asp Gly Tyr Gly Tyr Tyr Phe Asn Ile Trp Gly Pro
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

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Gln Ser Val Glu Glu Phe Gly Gly Arg Leu Val Thr Pro Gly Thr Pro
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				Asn	Tyr	Ala
Met	Thr	Trp	Val	Arg	Gln	Ala
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				Gly	Leu	Glu
					45	
				Trp	Ile	Gly
Ile	Ile	Gly	Ser	Ile	Gly	Thr
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				Thr	Tyr	Tyr
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				Val	Asp	Leu
				Lys	Ile	Ile
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				Phe	Cys	Ala
				Arg	Asp	Ala
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Gly	Val	Thr	Val	Asp	Gly	Tyr
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				Gly	Tyr	Gly
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				Tyr	Tyr	Phe
				Asn	Ile	Trp
				Gly	Pro	Ser
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Gly	Thr	Leu	Val	Thr	Val	Ser
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				Ser	Thr	Lys
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				Ala	Ala	
Phe	Pro	Leu	Ala	Pro	Ser	Ser
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				Lys	Ser	Thr
				Ser	Gly	Gly
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				Thr	Ala	Ala
Leu	Gly	Cys	Leu	Val	Lys	Asp
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				Tyr	Phe	Pro
				Glu	Pro	Val
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				Thr	Val	Ser
				Val	His	Thr
				Val	His	Thr
				Ala	Val	
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Leu	Gln	Ser	Ser	Gly	Leu	Tyr
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				Ser	Leu	Ser
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				Ser	Ser	Val
				Val	Thr	Val
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				Thr	Tyr	Ile
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				Cys	Asn	Val
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Pro	Ser	Asn	Thr	Lys	Val	Asp
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				Pro	Glu	Leu
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				Leu	Leu	Gly
				Gly	Gly	
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Pro	Ser	Val	Phe	Leu	Phe	Pro
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				Met	Ile	
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Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
 260 265 270

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
 275 280 285

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

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
 325 330 335

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
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Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
 355 360 365

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
 370 375 380

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
 385 390 395 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
 405 410 415

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
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Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
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Gly Lys
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 <213> Oryctolagus cuniculus

<400> 155

Gln Ala Ser Gln Asn Ile Gly Asn Asp Leu Ser
 1 5 10

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<210> 156
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 156

Ser Thr Ser Lys Leu Ala Thr
1 5

<210> 157
<211> 13
<212> PRT
<213> Oryctolagus cuniculus

<400> 157

Leu Gly Val Tyr Ser Tyr Ile Ser Asp Asp Gly Asn Ala
1 5 10

<210> 158
<211> 5
<212> PRT
<213> Oryctolagus cuniculus

<400> 158

Asn Tyr Ala Met Thr
1 5

<210> 159
<211> 16
<212> PRT
<213> Oryctolagus cuniculus

<400> 159

Ile Ile Gly Ser Ile Gly Thr Thr Tyr Tyr Ala Ser Trp Ala Lys Gly
1 5 10 15

<210> 160
<211> 15
<212> PRT
<213> Oryctolagus cuniculus

<400> 160

Asp Ala Gly Val Thr Val Asp Gly Tyr Gly Tyr Tyr Phe Asn Ile
1 5 10 15

<210> 161
<211> 112
<212> PRT
<213> Oryctolagus cuniculus

<400> 161

Ala Ile Glu Met Thr Gln Thr Pro Phe Ser Val Ser Ala Ala Val Gly

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

<210> 162
 <211> 218
 <212> PRT
 <213> Synthetic

<400> 162

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

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln

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115

120

125

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

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
145 150 155 160

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
165 170 175

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
180 185 190

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
195 200 205

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 163

<211> 115

<212> PRT

<213> Oryctolagus cuniculus

<400> 163

Gln Ser Leu Glu Glu Ser Gly Gly Arg Leu Val Thr Pro Gly Gly Ser
1 5 10 15

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

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

Phe Ile Ser Tyr Gly Asp Thr Thr Tyr Tyr Ala Ser Trp Ala Lys Gly
50 55 60

Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Thr Leu Thr Ile Thr
65 70 75 80

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

Ala Asn Thr Tyr Asp Tyr Gly Ile Trp Gly Pro Gly Thr Leu Val Thr
100 105 110

Val Ser Ser

115

<210> 164
 <211> 445
 <212> PRT
 <213> Synthetic

<400> 164

Gln Ser Leu Glu Glu Ser Gly Gly Arg Leu Val Thr Pro Gly Gly Ser
 1 5 10 15

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

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

Phe Ile Ser Tyr Gly Asp Thr Thr Tyr Tyr Ala Ser Trp Ala Lys Gly
 50 55 60

Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Thr Leu Thr Ile Thr
 65 70 75 80

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

Ala Asn Thr Tyr Asp Tyr Gly Ile Trp Gly Pro Gly Thr Leu Val Thr
 100 105 110

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

Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val
 130 135 140

Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala
 145 150 155 160

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

Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly
 180 185 190

Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys
 195 200 205

Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys

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220

210

215

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

Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
245 250 255

Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys
260 265 270

Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
275 280 285

Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu
290 295 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305 310 315 320

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

Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
340 345 350

Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
355 360 365

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
370 375 380

Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
385 390 395 400

Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
405 410 415

Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
420 425 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
435 440 445

<210> 165
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

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<400> 165

Gln Ala Ser Gln Thr Ile Ser Asn Tyr Leu Ala
1 5 10

<210> 166

<211> 7

<212> PRT

<213> Oryctolagus cuniculus

<400> 166

Gly Ala Ser Asn Leu Glu Ser
1 5

<210> 167

<211> 13

<212> PRT

<213> Oryctolagus cuniculus

<400> 167

Gln Gln Gly Tyr Thr Ile Ser Asn Val Asp Asn Asn Val
1 5 10

<210> 168

<211> 5

<212> PRT

<213> Oryctolagus cuniculus

<400> 168

Gly Tyr Asn Leu Val
1 5

<210> 169

<211> 16

<212> PRT

<213> Oryctolagus cuniculus

<400> 169

Phe Ile Ser Tyr Gly Asp Thr Thr Tyr Tyr Ala Ser Trp Ala Lys Gly
1 5 10 15

<210> 170

<211> 10

<212> PRT

<213> Oryctolagus cuniculus

<400> 170

Glu Thr Ala Asn Thr Tyr Asp Tyr Gly Ile
1 5 10

<210> 171

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<211> 112
<212> PRT
<213> Synthetic

<400> 171

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

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

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

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

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

Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Tyr Thr Ile Ser Asn
85 90 95

Val Asp Asn Asn Val Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105 110

<210> 172
<211> 218
<212> PRT
<213> Synthetic

<400> 172

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

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

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

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

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

Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Tyr Thr Ile Ser Asn
85 90 95

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Val Asp Asn Asn Val Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105 110

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
115 120 125

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

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
145 150 155 160

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
165 170 175

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
180 185 190

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
195 200 205

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 173
<211> 118
<212> PRT
<213> Synthetic

<400> 173

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Gly Phe Ile Ser Tyr Gly Asp Thr Thr Tyr Tyr Ala Ser Ser Ala Lys
50 55 60

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

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

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Arg Glu Thr Ala Asn Thr Tyr Asp Tyr Gly Ile Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 174
<211> 448
<212> PRT
<213> Synthetic

<400> 174

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Gly Phe Ile Ser Tyr Gly Asp Thr Thr Tyr Tyr Ala Ser Ser Ala Lys
50 55 60

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

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

Arg Glu Thr Ala Asn Thr Tyr Asp Tyr Gly Ile Trp Gly Gln Gly Thr
100 105 110

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

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

Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn
145 150 155 160

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

Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser
180 185 190

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

Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr
210 215 220

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

Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
245 250 255

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
260 265 270

Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
275 280 285

Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val
290 295 300

Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
305 310 315 320

Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr
325 330 335

Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
340 345 350

Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
355 360 365

Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
370 375 380

Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
385 390 395 400

Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
405 410 415

Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
420 425 430

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys

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435

440

445

<210> 175
 <211> 11
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 175

Gln Ala Ser Gln Thr Ile Ser Asn Tyr Leu Ala
 1 5 10

<210> 176
 <211> 7
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 176

Gly Ala Ser Asn Leu Glu Ser
 1 5

<210> 177
 <211> 13
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 177

Gln Gln Gly Tyr Thr Ile Ser Asn Val Asp Asn Asn Val
 1 5 10

<210> 178
 <211> 5
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 178

Gly Tyr Asn Leu Val
 1 5

<210> 179
 <211> 16
 <212> PRT
 <213> Synthetic

<400> 179

Phe Ile Ser Tyr Gly Asp Thr Thr Tyr Tyr Ala Ser Ser Ala Lys Gly
 1 5 10 15

<210> 180
 <211> 10
 <212> PRT
 <213> Oryctolagus cuniculus

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<400> 180

Glu Thr Ala Asn Thr Tyr Asp Tyr Gly Ile
1 5 10

<210> 181

<211> 112

<212> PRT

<213> Oryctolagus cuniculus

<400> 181

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

Gly Thr Val Ser Ile Ser Cys Gln Ser Ser Gln Asn Val Tyr Lys Asn
20 25 30

Asn Tyr Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu
35 40 45

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

Lys Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asp Val
65 70 75 80

Gln Cys Asp Ala Ala Ala Thr Tyr Tyr Cys Ala Gly Gly Tyr Ser Ser
85 90 95

Ser Ser Asp Asn Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
100 105 110

<210> 182

<211> 218

<212> PRT

<213> Synthetic

<400> 182

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

Gly Thr Val Ser Ile Ser Cys Gln Ser Ser Gln Asn Val Tyr Lys Asn
20 25 30

Asn Tyr Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu
35 40 45

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

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Lys Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asp Val
65 70 75 80

Gln Cys Asp Ala Ala Ala Thr Tyr Tyr Cys Ala Gly Gly Tyr Ser Ser
85 90 95

Ser Ser Asp Asn Ala Phe Gly Gly Gly Thr Glu Val Val Val Lys Arg
100 105 110

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
115 120 125

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

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
145 150 155 160

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
165 170 175

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
180 185 190

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
195 200 205

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 183
<211> 117
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 183

Gln Ser Val Glu Ala Ser Gly Gly Arg Leu Val Met Pro Gly Gly Ser
1 5 10 15

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

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

Asp Ile Tyr Phe Ser Asn Glu Glu Thr Asn Tyr Ala Thr Trp Ala Lys
50 55 60

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Gly Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Asn Val
65 70 75 80

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

Ser Pro Asp Val Glu Ile Ala Ile Asp Met Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 184
<211> 447
<212> PRT
<213> Synthetic

<400> 184

Gln Ser Val Glu Ala Ser Gly Gly Arg Leu Val Met Pro Gly Gly Ser
1 5 10 15

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

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

Asp Ile Tyr Phe Ser Asn Glu Glu Thr Asn Tyr Ala Thr Trp Ala Lys
50 55 60

Gly Arg Phe Thr Ile Ser Lys Thr Ser Thr Thr Val Asp Leu Asn Val
65 70 75 80

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

Ser Pro Asp Val Glu Ile Ala Ile Asp Met Trp Gly Gln Gly Thr Leu
100 105 110

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

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

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
145 150 155 160

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

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
180 185 190

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

Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His
210 215 220

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

Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
245 250 255

Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
260 265 270

Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
275 280 285

Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser
290 295 300

Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
305 310 315 320

Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile
325 330 335

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
340 345 350

Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
355 360 365

Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
370 375 380

Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
385 390 395 400

Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
405 410 415

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Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
420 425 430

His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
435 440 445

<210> 185
<211> 13
<212> PRT
<213> Oryctolagus cuniculus

<400> 185

Gln Ser Ser Gln Asn Val Tyr Lys Asn Asn Tyr Leu Ser
1 5 10

<210> 186
<211> 7
<212> PRT
<213> Oryctolagus cuniculus

<400> 186

Lys Ala Ser Thr Leu Ala Ser
1 5

<210> 187
<211> 11
<212> PRT
<213> Oryctolagus cuniculus

<400> 187

Ala Gly Gly Tyr Ser Ser Ser Ser Asp Asn Ala
1 5 10

<210> 188
<211> 5
<212> PRT
<213> Oryctolagus cuniculus

<400> 188

Thr Tyr Trp Met Ser
1 5

<210> 189
<211> 17
<212> PRT
<213> Oryctolagus cuniculus

<400> 189

Asp Ile Tyr Phe Ser Asn Glu Glu Thr Asn Tyr Ala Thr Trp Ala Lys
1 5 10 15

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Gly

<210> 190
<211> 11
<212> PRT
<213> *Oryctolagus cuniculus*

<400> 190

Gly Ser Pro Asp Val Glu Ile Ala Ile Asp Met
1 5 10

<210> 191
<211> 112
<212> PRT
<213> Synthetic

<400> 191

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

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

Asn Tyr Leu Ser Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu
35 40 45

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

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

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

Ser Ser Asp Asn Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105 110

<210> 192
<211> 218
<212> PRT
<213> Synthetic

<400> 192

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

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

Asn Tyr Leu Ser Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu
35 40 45

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

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

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

Ser Ser Asp Asn Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
100 105 110

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
115 120 125

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

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
145 150 155 160

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
165 170 175

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
180 185 190

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
195 200 205

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210 215

<210> 193
<211> 120
<212> PRT
<213> Synthetic

<400> 193

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Gly Asp Ile Tyr Phe Ser Asn Glu Glu Thr Asn Tyr Ala Thr Ser Ala
50 55 60

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

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

Ala Arg Gly Ser Pro Asp Val Glu Ile Ala Ile Asp Met Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 194
<211> 450
<212> PRT
<213> Synthetic

<400> 194

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Gly Asp Ile Tyr Phe Ser Asn Glu Glu Thr Asn Tyr Ala Thr Ser Ala
50 55 60

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

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

Ala Arg Gly Ser Pro Asp Val Glu Ile Ala Ile Asp Met Trp Gly Gln
100 105 110

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Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val
115 120 125

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

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
145 150 155 160

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
165 170 175

Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
180 185 190

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
195 200 205

Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp
210 215 220

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
225 230 235 240

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
245 250 255

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
260 265 270

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
275 280 285

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr Arg
290 295 300

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
305 310 315 320

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
325 330 335

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
340 345 350

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
355 360 365

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Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
370 375 380

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
385 390 395 400

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
405 410 415

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
420 425 430

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
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Gly Lys
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Thr Tyr Trp Met Ser
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Gly

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gacgatgttg	gcacttacta	ctgtcaaagt	gcttttgata	gtgatagtac	tgaaaatact	300
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gggcagcgtc	ccaagctcct	gatctatggt	gcatccaatc	tggatgctgg	gggtcccatcg	180

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<212> DNA
<213> Synthetic

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accctgacgc tgagcaaagc agactacgag aaacacaaag tctacgcctg cgaagtcacc 600
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caaatgaaca gcctgagagc tgaggacact gctgtgtatt actgtgctag aggctacgat 300
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atcgccgtgg agtgggagag caatgggcag ccggagaaca actacaagac cacgcctccc	1200
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<400> 216 ggtgcatcca atctggatgc t	21
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<210> 217
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<210> 220
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 <212> DNA
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<400> 220
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<210> 221
<211> 336
<212> DNA
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<212> DNA
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<210> 247
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 <213> *Oryctolagus cuniculus*

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<210> 249
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<212> DNA
<213> *Oryctolagus cuniculus*

<400> 249
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<210> 250
<211> 39
<212> DNA
<213> *Oryctolagus cuniculus*

<400> 250
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<210> 256
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<400> 259 atcattggtc gtaatggtaa cacatggtag gcgagctctg caagaggc	48
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<210> 260
 <211> 39
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 260
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<210> 261
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 <212> DNA
 <213> *Oryctolagus cuniculus*

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<210> 263
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 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 263

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<210> 266
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<210> 267
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<210> 270
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<212> DNA
<213> Oryctolagus cuniculus

<400> 270
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<210> 271
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 <211> 366
 <212> DNA
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agcagtgtga	aaggccgatt caccatctcc agagacaatt ccaagaacac gctgtacctg 240	
caaattgtcta	gcctgagagc cgaggacacg gctgtgtatt actgtgctag atcttatgct 300	
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<210> 276

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<212> DNA	
<213> Oryctolagus cuniculus	
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<210> 281	
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<213> Oryctolagus cuniculus	
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accctgacgc tgagcaaagc agactacgag aaacacaaaag tctacgcctg cgaagtcacc 600
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<212> DNA
<213> *Oryctolagus cuniculus*

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agtccgacaa tcgaggacac ggccacctat ttctgtgcca gagagactcc tgtaattat 300
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<211> 1338
<212> DNA
<213> Synthetic

<400> 284
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gggaaggggc tgggaatacat cggatggatt agttatggtg gtactgcata ttacgcgagc 180
tgggcgaagg gccgattcac catctccaaa acctcgacca cgggtggagct gaagatcacc 240
agtccgacaa tcgaggacac ggccacctat ttctgtgcca gagagactcc tgtaattat 300

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 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 286	
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<210> 287
 <211> 36
 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 287	
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<210> 288
 <211> 15
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 288
 atgtattcaa tgggc 15

<210> 289
 <211> 48
 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 289
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 <212> DNA
 <213> *Oryctolagus cuniculus*

 <400> 290
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<210> 291
 <211> 333
 <212> DNA
 <213> Synthetic

 <400> 291
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 gggaaagtcc ctaagctcct gatctatagg gcttccactc tggcatctgg ggtcccatct 180
 cgtttcagtgc gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 240
 gaagatgttg caacttatta ctgtcaacag gggtacaata gtgagaatct tgataatgct 300
 ttcggcggag gaaccaaggt ggaaatcaaa cgt 333

<210> 292
 <211> 654
 <212> DNA
 <213> Synthetic

 <400> 292
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ttcccgccat	ctgatgagca	gttgaaatct	ggaactgcct	ctgttggtg	cctgctgaat	420
aacttctatc	ccagagaggc	caaagtacag	tggaaggtgg	ataacgccct	ccaatcgggt	480
aactcccagg	agagtgtcac	agagcaggac	agcaaggaca	gcacctacag	cctcagcagc	540
accctgacgc	tgagcaaagc	agactacgag	aaacacaaaag	tctacgcctg	cgaagtcacc	600
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 <212> DNA
 <213> Synthetic

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caccttcagt	atgtattcaa
tgggctgggt	ccgccaggct
	120
ccaggggaagg	ggctggaata
catcggatgg	attagttatg
gtggtactgc	atactacgct
	180
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caccatctcc	agagacaatt
ccaagaacac	gctgtacctg
	240
caaattgtcta	gcctgagagc
cgaggacacg	gctgtgtatt
actgtgctag	agagactcct
	300
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tcaccgtctc	gagc
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 <211> 1347
 <212> DNA
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<400> 294	
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tgggctgggt	ccgccaggct
	120
ccaggggaagg	ggctggaata
catcggatgg	attagttatg
gtggtactgc	atactacgct
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caccatctcc	agagacaatt
ccaagaacac	gctgtacctg
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cgaggacacg	gctgtgtatt
actgtgctag	agagactcct
	300
gttaattact	acttggacat
ttggggccaa	ggtaccctcg
tcaccgtctc	gagcgcctcc
	360
accaagggcc	catcggctct
ccccctggca	ccctcctcca
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<210> 298
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<400> 298	
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<210> 299
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 <212> DNA
 <213> Synthetic

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<400> 299
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<210> 300
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<212> DNA
<213> Oryctolagus cuniculus

<400> 300
gagactcctg ttaattacta cttggacatt 30

<210> 301
<211> 327
<212> DNA
<213> Oryctolagus cuniculus

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<212> DNA
<213> Synthetic

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<210> 303

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<211> 360
<212> DNA
<213> *Oryctolagus cuniculus*

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<210> 304
<211> 1353
<212> DNA
<213> Synthetic

<400> 304
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cagaagagcc tctccctgtc tccgggtaaa tga	1353

<210> 305
 <211> 33
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 305 caggccagtc agaacattgt taccaattta gcc	33
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<210> 306
 <211> 21
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 306 ggtgcatcca ctctggcatc t	21
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<210> 307
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 <212> DNA
 <213> Oryctolagus cuniculus

<400> 307 cagagctatg atggttttaa tagtgctggg	30
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<210> 308
 <211> 15
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 308 ggctacgaca tgagc	15
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<210> 309
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 <212> DNA
 <213> Oryctolagus cuniculus

<400> 309 ctcattagtt atgatggtaa cacatactac gcgacctggg cgaaaggc	48
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<210> 310
 <211> 45
 <212> DNA
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<400> 310 agtctttatg ctggtcctaa tgctggatc ggaccgttta acatc	45
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<210> 311

<211> 327
 <212> DNA
 <213> Synthetic

<400> 311
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<210> 318
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<400> 318
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<400> 319
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ccatcgcggt tcaaaggcgg tggatctggg acagatttca ctctcaccat cagcgacgtg 240

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gtttggggcc cgggcaccct ggtcaccgtc tcgagc 336

<210> 344
<211> 1329
<212> DNA
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<400> 344
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<210> 347
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<210> 348
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 <213> *Oryctolagus cuniculus*

<400> 348 agctatgcaa tgatc	15
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<210> 349
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 <213> *Oryctolagus cuniculus*

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<212> DNA
<213> *Oryctolagus cuniculus*

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cggttcagtgc gcagcagatc tgggacacag ttcactctca ccatcagcga cctggagtgt 240
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<211> 657
<212> DNA
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<400> 352
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cggttcagtgc gcagcagatc tgggacacag ttcactctca ccatcagcga cctggagtgt 240
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<213> *Oryctolagus cuniculus*

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gatgggttatg gctactactt taacatctgg ggcccaggca ccctcgtcac cgtctcgagc	360

<210> 354
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 <212> DNA
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<400> 354	
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<210> 358
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 <212> DNA
 <213> Oryctolagus cuniculus

<400> 358
 aactatgcaa tgacc 15

<210> 359
 <211> 48
 <212> DNA
 <213> Oryctolagus cuniculus

<400> 359
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<400> 360
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 <212> DNA
 <213> Oryctolagus cuniculus

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<212> DNA
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cggttcaaag gcagtggatc tgggacacag ttcactctca ccatcagcga cctggagtgt	240
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<211> 345
<212> DNA
<213> *Oryctolagus cuniculus*

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gatctgcaac cttcagacac gggcacctat ttctgtgcca gagagactgc taatacttat	300
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<211> 1338
<212> DNA
<213> Synthetic

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gattatggca tctggggccc aggcacctc gtcaccgtct cgagcgccctc caccaagggc	360
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tccttcttcc tctacagaa gctcaccgtg gacaagagca ggtggcagca ggggaacgtc	1260
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 <400> 367
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 <211> 15
 <212> DNA
 <213> *Oryctolagus cuniculus*
 <400> 368
 ggctacaact tggtc 15

<210> 369
 <211> 48
 <212> DNA
 <213> *Oryctolagus cuniculus*
 <400> 369
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<210> 370
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 <212> DNA
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 aggttcagcg gcagtggatc tggaacagaa ttcactctca ccatcagcag cctgcagcct 240
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 <212> DNA
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gatgattttg	caacttacta	ctgtcaacag	ggttatacta	tcagtaatgt	tgataacaat	300
gttttcggcg	gaggaaccaa	ggtggaaatc	aaacgtacgg	tagcggcccc	atctgtcttc	360
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agcaccctga	cgctgagcaa	agcagactac	gagaaacaca	aagtctacgc	ctgcgaagtc	600
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 <212> DNA
 <213> Synthetic

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<210> 374
 <211> 1347
 <212> DNA
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<400> 374	
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aagaaccagg tcagcctgac ctgcctgggtc aaaggcttct atcccagcga catcgccgtg	1140
gagtgggaga gcaatgggca gccggagaac aactacaaga ccacgcctcc cgtgctggac	1200
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<210> 376
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<400> 376	
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<210> 377
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 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 377	
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 <212> DNA
 <213> *Oryctolagus cuniculus*

<400> 378		
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<210> 380		
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 <212> DNA
 <213> *Oryctolagus cuniculus*

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gagattgcta	tagatatgtg	gggccagggc	accctcgtca	ccgtctcgag	c	351

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 <212> DNA
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Tyr Asp Ala	Ser Thr Leu Glu Ser Gly Val Pro	Ser Arg Phe Ser Gly	
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Ser Gly Ser Gly	Thr Glu Tyr Thr Leu Thr Ile	Ser Ser Leu Gln Pro	
	65	70	75
Asp Asp Phe Ala	Thr Tyr Tyr Cys Gln Gln Gly Phe Thr Val	Ser Asp	
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Val Ala Ala	Pro Ser Val Phe Ile Phe Pro Pro Ser	Asp Glu Gln Leu	
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Lys Ser Gly Thr	Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro		
	130	135	140
Arg Glu Ala Lys	Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly		
	145	150	155
Asn Ser Gln Glu	Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr		
	165	170	175
Ser Leu Ser	Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His		
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Thr Lys Ser Phe	Asn Arg Gly Glu Cys		
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				Ala ₂₅	Gly	Phe
					Thr	Val
					Ser ₃₀	Asn
					Tyr	
Ala	Val	Gly ₃₅	Trp	Val	Arg	Gln
					Ala ₄₀	Pro
					Gly	Lys
					Gly ₄₅	Leu
					Glu	Trp
					Val	
Gly	Ile ₅₀	Ile	Gly	Arg	Asn	Gly ₅₅
					Asn	Thr
					Trp	Tyr
					Ala ₆₀	Ser
					Ser	Ala
					Arg	
Gly	Arg	Phe	Thr	Ile	Ser ₇₀	Arg
₆₅					Asp	Asn
					Ser	Lys ₇₅
					Asn	Thr
					Leu	Tyr
					Leu ₈₀	
Gln	Met	Asn	Ser	Leu ₈₅	Arg	Ala
					Glu	Asp
					Thr ₉₀	Ala
					Val	Tyr
					Tyr	Cys
					Ala ₉₅	
Arg	Gly	Tyr	Gly ₁₀₀	Arg	Ser	Val
					Ala ₁₀₅	Tyr
					Val	Phe
					Asn	Ile ₁₁₀
					Trp	Gly
Pro	Gly	Thr ₁₁₅	Leu	Val	Thr	Val
					Ser ₁₂₀	Ser
					Ala	Ser
					Thr	Lys ₁₂₅
					Gly	Pro
					Ser	
Val	Phe ₁₃₀	Pro	Leu	Ala	Pro	Ser ₁₃₅
					Ser	Lys
					Ser	Thr
					Ser ₁₄₀	Gly
					Gly	Thr
					Ala	
Ala ₁₄₅	Leu	Gly	Cys	Leu	Val ₁₅₀	Lys
					Asp	Tyr
					Phe	Pro ₁₅₅
					Glu	Pro
					Val	Thr
					Val ₁₆₀	
Ser	Trp	Asn	Ser	Gly ₁₆₅	Ala	Leu
					Thr	Ser
					Gly ₁₇₀	Val
					His	Thr
					Phe	Pro ₁₇₅
					Ala	
Val	Leu	Gln	Ser ₁₈₀	Ser	Gly	Leu
					Tyr	Ser ₁₈₅
					Leu	Ser
					Ser	Val
					Val ₁₉₀	Thr
					Val	
Pro	Ser	Ser ₁₉₅	Ser	Leu	Gly	Thr
					Gln ₂₀₀	Thr
					Tyr	Ile
					Cys	Asn ₂₀₅
					Val	Asn
					His	
Lys	Pro ₂₁₀	Ser	Asn	Thr	Lys	Val ₂₁₅
					Asp	Ala
					Arg	Val
					Glu ₂₂₀	Pro
					Lys	Ser
					Cys	
Asp ₂₂₅	Lys	Thr	His	Thr	Cys ₂₃₀	Pro
					Pro	Cys
					Pro	Ala ₂₃₅
					Pro	Glu
					Leu	Leu
					Gly ₂₄₀	
Gly	Pro	Ser	Val	Phe ₂₄₅	Leu	Phe
					Pro	Pro
					Lys ₂₅₀	Pro
					Lys	Asp
					Thr	Leu
					Met ₂₅₅	

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Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
275 280 285

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Ala Ser Thr Tyr
290 295 300

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
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Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
325 330 335

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
340 345 350

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

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
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Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
385 390 395 400

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
405 410 415

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
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Tyr Asp Ala Ser Thr Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly
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Ser Gly Ser Gly Thr Glu Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Phe Thr Val Ser Asp
 85 90 95

Ile Asp Asn Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr
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Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
 115 120 125

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

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
 145 150 155 160

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
 165 170 175

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
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 35 40 45

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 50 55 60

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

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
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Arg Gly Tyr Gly Arg Ser Val Ala Tyr Tyr Val Phe Asn Ile Trp Gly
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Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
 130 135 140

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
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Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
 165 170 175

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

Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Phe Thr Val Ser Asp
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Ile Asp Asn Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr
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Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro
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Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
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Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
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Gly Ile Ile Gly Arg Asn Gly Asn Thr Trp Tyr Ala Ser Ser Ala Arg
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Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
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Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
 165 170 175

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Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
180 185 190

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195 200 205

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Asp Lys Thr His
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<210> 411
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<213> Homo sapiens

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<400> 411

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Ser Ser Ser His Pro Ile Phe His Arg Gly Glu Phe Ser Val Cys Asp
1      5      10      15

```

```

Ser Val Ser Val Trp Val Gly Asp Lys Thr Thr Ala Thr Asp Ile Lys
20      25      30

```

```

Gly Lys Glu Val Met Val Leu Gly Glu Val Asn Ile Asn Asn Ser Val
35      40      45

```

```

Phe Lys Gln Tyr Phe Phe Glu Thr Lys Cys Arg Asp Pro Asn Pro Val
50      55      60

```

```

Asp Ser Gly Cys Arg Gly Ile Asp Ser Lys His Trp Asn Ser Tyr Cys
65      70      75      80

```

```

Thr Thr Thr His Thr Phe Val Lys Ala Leu Thr Met Asp Gly Lys Gln
85      90      95

```

```

Ala Ala Trp Arg Phe Ile Arg Ile Asp Thr Ala Cys Val Cys Val Leu
100      105      110

```

```

Ser Arg Lys Ala Val Arg Arg Ala
115      120

```

```

<210> 412
<211> 105
<212> PRT
<213> Homo sapiens

```

<400> 412

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Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
1      5      10      15

```

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Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro
20 25 30

Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
35 40 45

Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
50 55 60

Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
65 70 75 80

Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
85 90 95

Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 413
<211> 330
<212> PRT
<213> Homo sapiens

<400> 413

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
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Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

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Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
180 185 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
195 200 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
210 215 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225 230 235 240

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

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
260 265 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
275 280 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
290 295 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
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<212> PRT
<213> Artificial

<220>
<223> Secretion peptide

<400> 414

Met Arg Ser Leu Leu Ile Leu Val Leu Cys Phe Leu Pro Leu Ala Ala
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10

1 5 15

Leu Gly

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<211> 16
<212> PRT
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<220>
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<400> 415

Met Arg Leu Leu Leu Leu Leu Leu Leu Pro Leu Ala Ala Leu Gly
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<220>
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<400> 416

Met Leu Leu Gln Ala Phe Leu Phe Leu Leu Ala Gly Phe Ala Ala Lys
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Ile Ser Ala

<210> 417
<211> 35
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<220>
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<400> 417

Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu Phe Ala Ala Ser Ser
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Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu Glu Gly Val Ser Leu
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Glu Lys Arg
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<211> 22

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<212> PRT
<213> Artificial

<220>
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<400> 418

Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu Phe Ala Ala Ser Ser
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Ala Leu Ala Ala Pro Val
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<220>
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<400> 419

Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu Phe Ala Ala Ser Ser
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Ala Leu Ala Ala Pro Val Ser Leu Glu Lys Arg
20 25

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<220>
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<400> 420

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

Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu Glu Gly Val Ser Leu
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Glu Lys Arg Glu Ala Glu Ala Glu Ala
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<220>
<223> Secretion peptide

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<400> 421

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1 5 10 15

Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu Asp Glu Thr Ala Gln
20 25 30

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

Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr Asn Asn Gly Leu Leu
50 55 60

Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala Lys Glu Glu Gly Val
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Ser Leu Glu Lys Arg
85

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<211> 44

<212> PRT

<213> Artificial

<220>

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<400> 422

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

Pro Ala Glu Thr Ala Pro Val Ser Leu Leu Pro Arg
35 40

<210> 423

<211> 22

<212> PRT

<213> Artificial

<220>

<223> Secretion peptide

<400> 423

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

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Leu Gln Ser Val Phe Ala
20

<210> 424
<211> 22
<212> PRT
<213> Artificial

<220>
<223> Secretion peptide

<400> 424

Met Gln Thr Leu Leu Val Ser Ser Leu Val Val Ser Leu Ala Ala Ala
1 5 10 15

Leu Pro His Tyr Ile Arg
20

<210> 425
<211> 22
<212> PRT
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<220>
<223> Secretion peptide

<400> 425

Met Ile Phe Leu Lys Leu Ile Lys Ser Ile Val Ile Gly Leu Gly Leu
1 5 10 15

Val Ser Ala Ile Gln Ala
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<210> 426
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<220>
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<400> 426

Met Lys Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala
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Tyr Ser Arg Gly Val Phe Arg Arg
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<210> 427
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<212> PRT
<213> Artificial

67858o711002

<220>

<223> Secretion peptide

<400> 427

Met Lys Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala
1 5 10 15

Tyr Ser

<210> 428

<211> 24

<212> PRT

<213> Artificial

<220>

<223> Secretion peptide

<400> 428

Met Ala Leu Trp Met Arg Leu Leu Pro Leu Leu Ala Leu Leu Ala Leu
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Trp Gly Pro Asp Pro Ala Ala Ala
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<210> 429

<211> 24

<212> PRT

<213> Artificial

<220>

<223> Secretion peptide

<400> 429

Met Lys Tyr Thr Ser Tyr Ile Leu Ala Phe Gln Leu Cys Ile Val Leu
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Gly Ser Leu Gly Cys Asp Leu Pro
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<211> 26

<212> PRT

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<220>

<223> Secretion peptide

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Met Ala Ala Asp Ser Gln Thr Pro Trp Leu Leu Thr Phe Ser Leu Leu
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Cys Leu Leu Trp Pro Gln Glu Pro Gly Ala 67858o711002
 20 25

<210> 431
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 <212> PRT
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<220>
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<400> 431

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Trp Met Leu Leu Leu Val Gly Gly Ser Tyr Gly
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<210> 432
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Met Gln Lys Leu Ile Ile Phe Ala Leu Val Val Leu Cys Val Gly Ser
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Glu Ala

<210> 433
 <211> 18
 <212> PRT
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<220>
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<400> 433

Met Lys Ala Leu Ile Val Leu Gly Leu Val Leu Leu Ser Val Thr Val
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Gln Gly

<210> 434
 <211> 20
 <212> PRT
 <213> Artificial

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<220>

<223> Secretion peptide

<400> 434

Met Val Asp Gly Val Met Ile Leu Pro Val Leu Ile Met Ile Ala Leu
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Pro Ser Pro Ser
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<210> 435

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Secretion peptide

<400> 435

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

Ser Ser Gly

<210> 436

<211> 31

<212> PRT

<213> Artificial

<220>

<223> Secretion peptide

<400> 436

Met Leu Ser Leu Lys Pro Ser Trp Leu Thr Leu Ala Ala Leu Met Tyr
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Ala Met Leu Leu Val Val Val Pro Phe Ala Lys Pro Val Arg Ala
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<210> 437

<211> 22

<212> PRT

<213> Artificial

<220>

<223> Secretion peptide

<400> 437

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Leu Pro Gly Ala Lys Cys
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<213> Artificial

<220>
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<211> 1350
<212> DNA
<213> *Oryctolagus cuniculus*

<220>
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<210> 440

<211> 660

<212> DNA

<213> Artificial Sequence

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<223> Humanized antibody

<400> 440

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<210> 441

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<212> DNA

<213> Artificial Sequence

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<223> Humanized antibody

<400> 441

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