

序列表

<110> 广东香雪精准医疗技术有限公司

<120> 识别SSX2抗原短肽的T细胞受体

<130> P2019-1254

<160> 37

<170> PatentIn version 3.5

<210> 1

<211> 112

<212> PRT

<213> 智人(Homo sapiens)

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Ser Ser Val Ile Asn Cys Thr Tyr Thr Asp Ser Ser Ser Thr Tyr Leu
20 25 30

Tyr Trp Tyr Lys Gln Glu Pro Gly Ala Gly Leu Gln Leu Leu Thr Tyr
35 40 45

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

Leu Asn Lys Lys Asp Lys His Leu Ser Leu Arg Ile Ala Asp Thr Gln
65 70 75 80

Thr Gly Asp Ser Ala Ile Tyr Phe Cys Ala Glu Pro Asn Gln Ala Gly
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Thr Ala Leu Ile Phe Gly Lys Gly Thr Thr Leu Ser Val Ser Ser Asn
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<211> 336

<212> DNA

<213> 智人(Homo sapiens)

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<213> 智人(Homo sapiens)

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20 25 30

Tyr Trp Tyr Lys Gln Glu Pro Gly Ala Gly Leu Gln Leu Leu Thr Tyr
35 40 45

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

Leu Asn Lys Lys Asp Lys His Leu Ser Leu Arg Ile Ala Asp Thr Gln
65 70 75 80

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

Thr Ala Leu Ile Phe Gly Lys Gly Thr Thr Leu Ser Val Ser Ser Asn
100 105 110

Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu Arg Asp Ser Lys Ser
115 120 125

Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe Asp Ser Gln Thr Asn
130 135 140

Val Ser Gln Ser Lys Asp Ser Asp Val Tyr Ile Thr Asp Lys Thr Val
145 150 155 160

Leu Asp Met Arg Ser Met Asp Phe Lys Ser Asn Ser Ala Val Ala Trp
165 170 175

Ser Asn Lys Ser Asp Phe Ala Cys Ala Asn Ala Phe Asn Asn Ser Ile
180 185 190

Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser Ser Cys Asp Val
195 200 205

Lys Leu Val Glu Lys Ser Phe Glu Thr Asp Thr Asn Leu Asn Phe Gln
210 215 220



Asn Leu Ser Val Ile Gly Phe Arg Ile Leu Leu Leu Lys Val Ala Gly
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Phe Asn Leu Leu Met Thr Leu Arg Leu Trp Ser Ser
 245 250

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<210> 5
 <211> 113
 <212> PRT
 <213> 智人(Homo sapiens)

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Gln Ser Met Thr Leu Leu Cys Ala Gln Asp Met Asn His Glu Tyr Met
 20 25 30

Tyr Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu Ile His Tyr
 35 40 45

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

Asn Val Ser Arg Leu Lys Lys Gln Asn Phe Leu Leu Gly Leu Glu Ser



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Ala	Ala	Pro	Ser	Gln	Thr	Ser	Val	Tyr	Phe	Cys	Ala	Ser	Ser	Ser	Leu
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Glu	Asp	Pro	Tyr	Glu	Gln	Tyr	Phe	Gly	Pro	Gly	Thr	Arg	Leu	Thr	Val
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Tyr	Trp	Tyr	Arg	Gln	Asp	Pro	Gly	Met	Gly	Leu	Arg	Leu	Ile	His	Tyr
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Ser	Val	Gly	Glu	Gly	Thr	Thr	Ala	Lys	Gly	Glu	Val	Pro	Asp	Gly	Tyr
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Ala	Ala	Pro	Ser	Gln	Thr	Ser	Val	Tyr	Phe	Cys	Ala	Ser	Ser	Ser	Leu
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Glu Asp Pro Tyr Glu Gln Tyr Phe Gly Pro Gly Thr Arg Leu Thr Val
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Thr Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val Phe Glu
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Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys
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Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser Trp Trp Val
 145 150 155 160

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

Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu Ser Ser Arg
 180 185 190

Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn His Phe Arg
 195 200 205

Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu Trp Thr Gln
 210 215 220

Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp Gly
 225 230 235 240

Arg Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr Gln Gln Gly Val Leu
 245 250 255

Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu Tyr
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Asp Ser Arg Gly
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 <212> DNA
 <213> 智人(Homo sapiens)

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<210> 9
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 <212> PRT
 <213> 智人(Homo sapiens)

<400> 9

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<210> 10
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 <213> 智人(Homo sapiens)

<400> 10

Asp Ser Ser Ser Thr Tyr
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<210> 11
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<400> 11

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<210> 12
 <211> 11
 <212> PRT
 <213> 智人(Homo sapiens)

<400> 12



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1 5 10

<210> 13
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<212> PRT
<213> 智人(Homo sapiens)

<400> 13

Met Asn His Glu Tyr
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<400> 14

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<210> 15
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<212> PRT
<213> 智人(Homo sapiens)

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<210> 17
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<212> DNA
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<210> 19
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 <212> DNA
 <213> 智人(Homo sapiens)

 <400> 19
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<210> 20
 <211> 18
 <212> DNA
 <213> 智人(Homo sapiens)

 <400> 20
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<210> 21
 <211> 36
 <212> DNA
 <213> 智人(Homo sapiens)

 <400> 21
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<210> 22
 <211> 273
 <212> PRT
 <213> 智人(Homo sapiens)

 <400> 22

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 20 25 30

Val Arg Glu Gly Asp Ser Ser Val Ile Asn Cys Thr Tyr Thr Asp Ser
 35 40 45

Ser Ser Thr Tyr Leu Tyr Trp Tyr Lys Gln Glu Pro Gly Ala Gly Leu
 50 55 60

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

Arg Leu Thr Val Leu Leu Asn Lys Lys Asp Lys His Leu Ser Leu Arg
 85 90 95

Ile Ala Asp Thr Gln Thr Gly Asp Ser Ala Ile Tyr Phe Cys Ala Glu
 100 105 110

Pro Asn Gln Ala Gly Thr Ala Leu Ile Phe Gly Lys Gly Thr Thr Leu
 115 120 125



Ser Val Ser Ser Asn Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu
 130 135 140

Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe
 145 150 155 160

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

Thr Asp Lys Thr Val Leu Asp Met Arg Ser Met Asp Phe Lys Ser Asn
 180 185 190

Ser Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala Asn Ala
 195 200 205

Phe Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu
 210 215 220

Ser Ser Cys Asp Val Lys Leu Val Glu Lys Ser Phe Glu Thr Asp Thr
 225 230 235 240

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

Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu Arg Leu Trp Ser
 260 265 270

Ser

<210> 23
 <211> 819
 <212> DNA
 <213> 智人(Homo sapiens)

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<210> 24
<211> 311
<212> PRT
<213> 智人(Homo sapiens)

<400> 24

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

Lys Thr Gly Gln Ser Met Thr Leu Leu Cys Ala Gln Asp Met Asn His
35 40 45

Glu Tyr Met Tyr Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu
50 55 60

Ile His Tyr Ser Val Gly Glu Gly Thr Thr Ala Lys Gly Glu Val Pro
65 70 75 80

Asp Gly Tyr Asn Val Ser Arg Leu Lys Lys Gln Asn Phe Leu Leu Gly
85 90 95

Leu Glu Ser Ala Ala Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
100 105 110

Ser Ser Leu Glu Asp Pro Tyr Glu Gln Tyr Phe Gly Pro Gly Thr Arg
115 120 125

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

Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr
145 150 155 160

Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser
165 170 175

Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr Asp Pro
180 185 190



Gln Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu
195 200 205

Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn
210 215 220

His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu
225 230 235 240

Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu
245 250 255

Ala Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr Gln Gln
260 265 270

Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala
275 280 285

Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala Met Val
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Lys Arg Lys Asp Ser Arg Gly
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<212> DNA
<213> 智人(Homo sapiens)

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<210> 26
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 <212> PRT
 <213> 智人(Homo sapiens)

<400> 26

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

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

Leu Asn Lys Lys Asp Lys His Leu Ser Leu Arg Ile Ala Asp Thr Gln
 65 70 75 80

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

Thr Ala Leu Ile Phe Gly Lys Gly Thr Thr Leu Ser Val Ser Ser Asn
 100 105 110

Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu Arg Asp Ser Lys Ser
 115 120 125

Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe Asp Ser Gln Thr Asn
 130 135 140

Val Ser Gln Ser Lys Asp Ser Asp Val Tyr Ile Thr Asp Lys Cys Val
 145 150 155 160

Leu Asp Met Arg Ser Met Asp Phe Lys Ser Asn Ser Ala Val Ala Trp
 165 170 175

Ser Asn Lys Ser Asp Phe Ala Cys Ala Asn Ala Phe Asn Asn Ser Ile
 180 185 190

Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser Ser
 195 200 205



<210> 27
<211> 615
<212> DNA
<213> 智人(Homo sapiens)

<400> 27
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<210> 28
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<212> PRT
<213> 智人(Homo sapiens)

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



Thr Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val Phe Glu
115 120 125

Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys
130 135 140

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

Asn Gly Lys Glu Val His Ser Gly Val Cys Thr Asp Pro Gln Pro Leu
165 170 175

Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Ala Leu Ser Ser Arg
180 185 190

Leu Arg Val Ser Ala Thr Phe Trp Gln Asp Pro Arg Asn His Phe Arg
195 200 205

Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu Trp Thr Gln
210 215 220

Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp Gly
225 230 235 240

Arg Ala Asp

<210> 29
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<212> DNA
<213> 智人(Homo sapiens)

<400> 29
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agagcagac 729

<210> 30

<211> 249

<212> PRT

<213> 智人(Homo sapiens)

<400> 30

Met Gly Glu Asp Val Glu Gln Ser Leu Ser Leu Ser Val Arg Glu Gly
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20 25 30

Leu Tyr Trp Tyr Lys Gln Glu Pro Gly Ala Gly Leu Gln Leu Leu Thr
35 40 45

Tyr Ile Phe Ser Asn Met Asp Met Lys Gln Asp Gln Arg Leu Thr Val
50 55 60

Ser Leu Asn Lys Lys Asp Lys His Leu Ser Leu Arg Ile Glu Asp Val
65 70 75 80

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

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

Gly Gly Gly Ser Glu Gly Gly Gly Ser Glu Gly Gly Gly Ser Glu Gly
115 120 125

Gly Gly Ser Glu Gly Gly Thr Gly Asn Ala Gly Val Thr Gln Thr Pro
130 135 140

Lys Tyr Leu Ser Val Lys Thr Gly Gln Ser Val Thr Leu Gln Cys Ala
145 150 155 160

Gln Asp Met Asn His Glu Tyr Met Tyr Trp Tyr Arg Gln Asp Pro Gly
165 170 175

Gln Gly Leu Arg Leu Ile His Tyr Ser Val Gly Glu Gly Thr Thr Ala
180 185 190

Lys Gly Glu Val Pro Asp Arg Tyr Asn Val Ser Arg Leu Lys Lys Gln
195 200 205

Asn Phe Leu Leu Gly Ile Glu Ser Val Thr Pro Ser Asp Thr Ser Val



210

215

220

Tyr Phe Cys Ala Ser Ser Ser Leu Glu Asp Pro Tyr Glu Gln Tyr Phe
 225 230 235 240

Gly Pro Gly Thr Arg Leu Thr Val Thr
 245

<210> 31
 <211> 747
 <212> DNA
 <213> 智人(Homo sapiens)

<400> 31
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 ggtgcgggcc tgcaactgct gacctatatt ttcagcaaca tggacatgaa gcaggatcaa 180
 cgtctgaccg tgagcctgaa caagaaagat aaacacctga gcctgcgtat cgaggacgtt 240
 cagccgggtg atagcgcgat ttacttctgc gcggaaccga accaagcggg taccgcgtg 300
 atcttttgta aaggtaccac cctgagcgtg agcagcgggtg gcggtagcga gggcgggtggc 360
 agcgaaggtg gcggtagcga gggcgggtggc agcgaaggtg gcaccggtaa cgcgggcgtt 420
 acccagaccc cgaagtatct gagcgtgaaa accggtcaaa gcgttacctt gcagtgcgcg 480
 caagacatga accacgagta tatgtactgg tatcgtcagg atccgggtca aggcctgcgt 540
 ctgatccact atagcgtggg cgagggtacc accgcgaagg gtgaagtgcc ggaccgttat 600
 aacgttagcc gtctgaagaa acagaacttt ctgctgggta ttgaaagcgt gaccccgagc 660
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<210> 32
 <211> 112
 <212> PRT
 <213> 智人(Homo sapiens)

<400> 32

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

Leu Tyr Trp Tyr Lys Gln Glu Pro Gly Ala Gly Leu Gln Leu Leu Thr
 35 40 45

Tyr Ile Phe Ser Asn Met Asp Met Lys Gln Asp Gln Arg Leu Thr Val
 50 55 60



Ser Leu Asn Lys Lys Asp Lys His Leu Ser Leu Arg Ile Glu Asp Val
65 70 75 80

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

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

<210> 33
<211> 336
<212> DNA
<213> 智人(Homo sapiens)

<400> 33
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ggtgctgggcc tgcaactgct gacctatatt ttcagcaaca tggacatgaa gcaggatcaa 180
cgtctgaccg tgagcctgaa caagaaagat aaacacctga gcctgcgtat cgaggacgtt 240
cagccgggtg atagcgcgat ttacttctgc gcggaaccga accaagcggg taccgcgctg 300
atcttttgta aaggtaccac cctgagcgtg agcagc 336

<210> 34
<211> 113
<212> PRT
<213> 智人(Homo sapiens)

<400> 34

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

Tyr Trp Tyr Arg Gln Asp Pro Gly Gln Gly Leu Arg Leu Ile His Tyr
35 40 45

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

Asn Val Ser Arg Leu Lys Lys Gln Asn Phe Leu Leu Gly Ile Glu Ser
65 70 75 80

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

Glu Asp Pro Tyr Glu Gln Tyr Phe Gly Pro Gly Thr Arg Leu Thr Val



Thr

<210> 35

<211> 339

<212> DNA

<213> 智人(Homo sapiens)

<400> 35

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ctgcagtgcg cgcaagacat gaaccacgag tatatgtact ggtatcgtca ggatccgggt 120

caaggcctgc gtctgatcca ctatagcgtg ggcgagggta ccaccgcgaa ggggtgaagtg 180

ccggaccgtt ataacgttag ccgtctgaag aaacagaact ttctgctggg tattgaaagc 240

gtgaccccca gcgacaccag cgtttacttc tgcgcgagca gcagcctgga ggatccgtac 300

gaacaatatt ttggtccggg caccgtctg accgttacc 339

<210> 36

<211> 24

<212> PRT

<213> 智人(Homo sapiens)

<400> 36

Gly	Gly	Gly	Ser	Glu	Gly	Gly	Gly	Ser	Glu	Gly	Gly	Gly	Ser	Glu	Gly
1				5					10					15	

Gly	Gly	Ser	Glu	Gly	Gly	Thr	Gly
				20			

<210> 37

<211> 72

<212> DNA

<213> 智人(Homo sapiens)

<400> 37

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ggtggcaccg gt 72

