

## SEQUENCE LISTING

<110> Immatics Biotechnologies GmbH

<120> NOVEL T CELL RECEPTORS AND IMMUNE THERAPY USING THE SAME

<130> I33000WO

<150> DE 102016123859.7

<151> 2016-12-08

<150> US 62/431,580

<151> 2016-12-08

<160> 78

<170> PatentIn version 3.5

<210> 1

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<212> PRT

<213> Homo sapiens

<400> 1

Thr Ser Ile Asn Asn

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Ile Arg Ser

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Cys Ala Thr Val Ser Asn Tyr Gln Leu Ile Trp

1 5 10

<210> 4

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<213> Homo sapiens

<400> 4

Met Glu Thr Leu Leu Gly Val Ser Leu Val Ile Leu Trp Leu Gln Leu  
1 5 10 15

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

Ile Gln Glu Gly Glu Asn Ala Thr Met Asn Cys Ser Tyr Lys Thr Ser  
35 40 45

Ile Asn Asn Leu Gln Trp Tyr Arg Gln Asn Ser Gly Arg Gly Leu Val  
50 55 60

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

Leu Arg Val Thr Leu Asp Thr Ser Lys Lys Ser Ser Ser Leu Leu Ile  
85 90 95

Thr Ala Ser Arg Ala Ala Asp Thr Ala Ser Tyr Phe Cys Ala Thr Val  
100 105 110

Ser Asn Tyr Gln Leu Ile Trp Gly Ala Gly Thr Lys Leu Ile Ile Lys  
115 120 125

Pro

<210> 5  
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<213> Homo sapiens

<400> 5

Asp Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu Arg Asp Ser Lys  
1 5 10 15

Ser Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe Asp Ser Gln Thr  
20 25 30

Asn Val Ser Gln Ser Lys Asp Ser Asp Val Tyr Ile Thr Asp Lys Thr  
35 40 45

Val Leu Asp Met Arg Ser Met Asp Phe Lys Ser Asn Ser Ala Val Ala  
50 55 60

Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala Asn Ala Phe Asn Asn Ser  
65 70 75 80

Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser Ser Cys Asp  
85 90 95

Val Lys Leu Val Glu Lys Ser Phe Glu Thr Asp Thr Asn Leu Asn Phe  
100 105 110

Gln Asn Leu Ser Val Ile Gly Phe Arg Ile Leu Leu Leu Lys Val Ala  
115 120 125

Gly Phe Asn Leu Leu Met Thr Leu Arg Leu Trp Ser Ser  
130 135 140

<210> 6  
<211> 270  
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<213> Homo sapiens

<400> 6

Met Glu Thr Leu Leu Gly Val Ser Leu Val Ile Leu Trp Leu Gln Leu  
1 5 10 15

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

Ile Gln Glu Gly Glu Asn Ala Thr Met Asn Cys Ser Tyr Lys Thr Ser  
35 40 45

Ile Asn Asn Leu Gln Trp Tyr Arg Gln Asn Ser Gly Arg Gly Leu Val  
50 55 60

His Leu Ile Leu Ile Arg Ser Asn Glu Arg Glu Lys His Ser Gly Arg

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

<210> 7  
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<213> Homo sapiens

<400> 7

Met Asn His Glu Tyr  
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<210> 8

<211> 6

<212> PRT

<213> Homo sapiens

<400> 8

Ser Met Asn Val Glu Val  
1 5

<210> 9

<211> 17

<212> PRT

<213> Homo sapiens

<400> 9

Cys Ala Ser Ser Ser Thr Ser Gly Gly Leu Ser Gly Glu Thr Gln Tyr  
1 5 10 15

Phe

<210> 10

<211> 135

<212> PRT

<213> Homo sapiens

<400> 10

Met Gly Pro Gln Leu Leu Gly Tyr Val Val Leu Cys Leu Leu Gly Ala  
1 5 10 15

Gly Pro Leu Glu Ala Gln Val Thr Gln Asn Pro Arg Tyr Leu Ile Thr  
20 25 30

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

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Leu Gly Leu Arg Gln

50

55

60

Ile Tyr Tyr Ser Met Asn Val Glu Val Thr Asp Lys Gly Asp Val Pro  
65 70 75 80

Glu Gly Tyr Lys Val Ser Arg Lys Glu Lys Arg Asn Phe Pro Leu Ile  
85 90 95

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

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

Gly Thr Arg Leu Leu Val Leu  
130 135

<210> 11  
<211> 179  
<212> PRT  
<213> Homo sapiens

<400> 11

Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val Phe Glu Pro  
1 5 10 15

Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys Leu  
20 25 30

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

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

Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu Ser Ser Arg Leu  
65 70 75 80

Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn His Phe Arg Cys  
85 90 95

Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu Trp Thr Gln Asp  
100 105 110

Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp Gly Arg  
115 120 125

Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr Gln Gln Gly Val Leu Ser  
130 135 140

Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu Tyr Ala  
145 150 155 160

Val Leu Val Ser Ala Leu Val Leu Met Ala Met Val Lys Arg Lys Asp  
165 170 175

Ser Arg Gly

<210> 12  
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<212> PRT  
<213> Homo sapiens

<400> 12

Met Gly Pro Gln Leu Leu Gly Tyr Val Val Leu Cys Leu Leu Gly Ala  
1 5 10 15

Gly Pro Leu Glu Ala Gln Val Thr Gln Asn Pro Arg Tyr Leu Ile Thr  
20 25 30

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

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

Ile Tyr Tyr Ser Met Asn Val Glu Val Thr Asp Lys Gly Asp Val Pro  
65 70 75 80

Glu Gly Tyr Lys Val Ser Arg Lys Glu Lys Arg Asn Phe Pro Leu Ile  
85 90 95

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

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

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

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

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

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

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

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

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

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

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

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

Gly Lys Ala Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met  
290 295 300

Ala Met Val Lys Arg Lys Asp Ser Arg Gly

305

310

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<213> Homo sapiens

<400> 13

Val Ser Pro Phe Ser Asn  
1 5

<210> 14  
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<212> PRT  
<213> Homo sapiens

<400> 14

Met Thr Phe  
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<210> 15  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 15

Cys Val Val Ser Ala Tyr Gly Lys Leu Gln Phe  
1 5 10

<210> 16  
<211> 131  
<212> PRT  
<213> Homo sapiens

<400> 16

Met Lys Lys His Leu Thr Thr Phe Leu Val Ile Leu Trp Leu Tyr Phe  
1 5 10 15

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

Ile Ile Leu Glu Gly Lys Asn Cys Thr Leu Gln Cys Asn Tyr Thr Val  
35 40 45

Ser Pro Phe Ser Asn Leu Arg Trp Tyr Lys Gln Asp Thr Gly Arg Gly  
50 55 60

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

Gly Arg Tyr Thr Ala Thr Leu Asp Ala Asp Thr Lys Gln Ser Ser Leu  
85 90 95

His Ile Thr Ala Ser Gln Leu Ser Asp Ser Ala Ser Tyr Ile Cys Val  
100 105 110

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

Val Thr Pro  
130

<210> 17  
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<212> PRT  
<213> Homo sapiens

<400> 17

Asp Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu Arg Asp Ser Lys  
1 5 10 15

Ser Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe Asp Ser Gln Thr  
20 25 30

Asn Val Ser Gln Ser Lys Asp Ser Asp Val Tyr Ile Thr Asp Lys Thr  
35 40 45

Val Leu Asp Met Arg Ser Met Asp Phe Lys Ser Asn Ser Ala Val Ala  
50 55 60

Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala Asn Ala Phe Asn Asn Ser  
65 70 75 80

Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser Ser Cys Asp  
85 90 95

Val Lys Leu Val Glu Lys Ser Phe Glu Thr Asp Thr Asn Leu Asn Phe  
100 105 110

Gln Asn Leu Ser Val Ile Gly Phe Arg Ile Leu Leu Leu Lys Val Ala  
115 120 125

Gly Phe Asn Leu Leu Met Thr Leu Arg Leu Trp Ser Ser  
130 135 140

<210> 18

<211> 272

<212> PRT

<213> Homo sapiens

<400> 18

Met Lys Lys His Leu Thr Thr Phe Leu Val Ile Leu Trp Leu Tyr Phe  
1 5 10 15

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

Ile Ile Leu Glu Gly Lys Asn Cys Thr Leu Gln Cys Asn Tyr Thr Val  
35 40 45

Ser Pro Phe Ser Asn Leu Arg Trp Tyr Lys Gln Asp Thr Gly Arg Gly  
50 55 60

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

Gly Arg Tyr Thr Ala Thr Leu Asp Ala Asp Thr Lys Gln Ser Ser Leu  
85 90 95

His Ile Thr Ala Ser Gln Leu Ser Asp Ser Ala Ser Tyr Ile Cys Val  
100 105 110

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

Val Thr Pro Asp Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu Arg

130

135

140

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

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

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

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

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

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

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

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

<210> 19  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 19

Ser Gly His Asn Ser  
 1 5

<210> 20  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 20

Phe Asn Asn Asn Val Pro

1 5

<210> 21  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 21

Cys Ala Ser Ser Leu Gly Ser Pro Asp Gly Asn Gln Pro Gln His Phe  
1 5 10 15

<210> 22  
<211> 135  
<212> PRT  
<213> Homo sapiens

<400> 22

Met Asp Ser Trp Thr Phe Cys Cys Val Ser Leu Cys Ile Leu Val Ala  
1 5 10 15

Lys His Thr Asp Ala Gly Val Ile Gln Ser Pro Arg His Glu Val Thr  
20 25 30

Glu Met Gly Gln Glu Val Thr Leu Arg Cys Lys Pro Ile Ser Gly His  
35 40 45

Asn Ser Leu Phe Trp Tyr Arg Gln Thr Met Met Arg Gly Leu Glu Leu  
50 55 60

Leu Ile Tyr Phe Asn Asn Asn Val Pro Ile Asp Asp Ser Gly Met Pro  
65 70 75 80

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

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

Ser Ser Leu Gly Ser Pro Asp Gly Asn Gln Pro Gln His Phe Gly Asp  
115 120 125

Gly Thr Arg Leu Ser Ile Leu

130

135

<210> 23  
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 <212> PRT  
 <213> Homo sapiens

<400> 23

Glu Asp Leu Asn Lys Val Phe Pro Pro Glu Val Ala Val Phe Glu Pro  
 1 5 10 15

Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys Leu  
 20 25 30

Ala Thr Gly Phe Phe Pro Asp His Val Glu Leu Ser Trp Trp Val Asn  
 35 40 45

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

Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu Ser Ser Arg Leu  
 65 70 75 80

Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn His Phe Arg Cys  
 85 90 95

Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu Trp Thr Gln Asp  
 100 105 110

Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp Gly Arg  
 115 120 125

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

Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu Tyr Ala  
 145 150 155 160

Val Leu Val Ser Ala Leu Val Leu Met Ala Met Val Lys Arg Lys Asp  
 165 170 175

Phe

<210> 24  
<211> 312  
<212> PRT  
<213> Homo sapiens

<400> 24

Met Asp Ser Trp Thr Phe Cys Cys Val Ser Leu Cys Ile Leu Val Ala  
1 5 10 15

Lys His Thr Asp Ala Gly Val Ile Gln Ser Pro Arg His Glu Val Thr  
20 25 30

Glu Met Gly Gln Glu Val Thr Leu Arg Cys Lys Pro Ile Ser Gly His  
35 40 45

Asn Ser Leu Phe Trp Tyr Arg Gln Thr Met Met Arg Gly Leu Glu Leu  
50 55 60

Leu Ile Tyr Phe Asn Asn Asn Val Pro Ile Asp Asp Ser Gly Met Pro  
65 70 75 80

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

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

Ser Ser Leu Gly Ser Pro Asp Gly Asn Gln Pro Gln His Phe Gly Asp  
115 120 125

Gly Thr Arg Leu Ser Ile Leu Glu Asp Leu Asn Lys Val Phe Pro Pro  
130 135 140

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

Lys Ala Thr Leu Val Cys Leu Ala Thr Gly Phe Phe Pro Asp His Val  
165 170 175

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

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

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

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

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

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

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

Gly Lys Ala Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met  
290 295 300

Ala Met Val Lys Arg Lys Asp Phe  
305 310

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<400> 25

Thr Ser Glu Ser Asp Tyr Tyr  
1 5

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<213> Homo sapiens

<400> 26

Gln Glu Ala Tyr

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<210> 27

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<213> Homo sapiens

<400> 27

Cys Ala Tyr Asn Ser Tyr Ala Gly Gly Thr Ser Tyr Gly Lys Leu Thr

1

5

10

15

Phe

<210> 28

<211> 138

<212> PRT

<213> Homo sapiens

<400> 28

Met Ala Cys Pro Gly Phe Leu Trp Ala Leu Val Ile Ser Thr Cys Leu

1

5

10

15

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

20

25

30

Val Gln Glu Ala Glu Thr Val Thr Leu Ser Cys Thr Tyr Asp Thr Ser

35

40

45

Glu Ser Asp Tyr Tyr Leu Phe Trp Tyr Lys Gln Pro Pro Ser Arg Gln

50

55

60

Met Ile Leu Val Ile Arg Gln Glu Ala Tyr Lys Gln Gln Asn Ala Thr

65

70

75

80

Glu Asn Arg Phe Ser Val Asn Phe Gln Lys Ala Ala Lys Ser Phe Ser

85

90

95

Leu Lys Ile Ser Asp Ser Gln Leu Gly Asp Ala Ala Met Tyr Phe Cys

100

105

110

Ala Tyr Asn Ser Tyr Ala Gly Gly Thr Ser Tyr Gly Lys Leu Thr Phe  
115 120 125

Gly Gln Gly Thr Ile Leu Thr Val His Pro  
130 135

<210> 29  
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<213> Homo sapiens

<400> 29

Asn Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu Arg Asp Ser Lys  
1 5 10 15

Ser Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe Asp Ser Gln Thr  
20 25 30

Asn Val Ser Gln Ser Lys Asp Ser Asp Val Tyr Ile Thr Asp Lys Thr  
35 40 45

Val Leu Asp Met Arg Ser Met Asp Phe Lys Ser Asn Ser Ala Val Ala  
50 55 60

Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala Asn Ala Phe Asn Asn Ser  
65 70 75 80

Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser Ser Cys Asp  
85 90 95

Val Lys Leu Val Glu Lys Ser Phe Glu Thr Asp Thr Asn Leu Asn Phe  
100 105 110

Gln Asn Leu Ser Val Ile Gly Phe Arg Ile Leu Leu Leu Lys Val Ala  
115 120 125

Gly Phe Asn Leu Leu Met Thr Leu Arg Leu Trp Ser Ser  
130 135 140

<210> 30  
<211> 279

<212> PRT  
<213> Homo sapiens

<400> 30

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

Glu Phe Ser Met Ala Gln Thr Val Thr Gln Ser Gln Pro Glu Met Ser  
20 25 30

Val Gln Glu Ala Glu Thr Val Thr Leu Ser Cys Thr Tyr Asp Thr Ser  
35 40 45

Glu Ser Asp Tyr Tyr Leu Phe Trp Tyr Lys Gln Pro Pro Ser Arg Gln  
50 55 60

Met Ile Leu Val Ile Arg Gln Glu Ala Tyr Lys Gln Gln Asn Ala Thr  
65 70 75 80

Glu Asn Arg Phe Ser Val Asn Phe Gln Lys Ala Ala Lys Ser Phe Ser  
85 90 95

Leu Lys Ile Ser Asp Ser Gln Leu Gly Asp Ala Ala Met Tyr Phe Cys  
100 105 110

Ala Tyr Asn Ser Tyr Ala Gly Gly Thr Ser Tyr Gly Lys Leu Thr Phe  
115 120 125

Gly Gln Gly Thr Ile Leu Thr Val His Pro Asn Ile Gln Asn Pro Asp  
130 135 140

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

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

Asp Ser Asp Val Tyr Ile Thr Asp Lys Thr Val Leu Asp Met Arg Ser  
180 185 190

Met Asp Phe Lys Ser Asn Ser Ala Val Ala Trp Ser Asn Lys Ser Asp

195

200

205

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

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

Ser Phe Glu Thr Asp Thr Asn Leu Asn Phe Gln Asn Leu Ser Val Ile  
 245 250 255

Gly Phe Arg Ile Leu Leu Leu Lys Val Ala Gly Phe Asn Leu Leu Met  
 260 265 270

Thr Leu Arg Leu Trp Ser Ser  
 275

<210> 31  
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<400> 31

Ser Gly His Lys Ser  
 1 5

<210> 32  
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<400> 32

Tyr Tyr Glu Lys Glu Glu  
 1 5

<210> 33  
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<400> 33

Cys Ala Ser Ser Leu Asp Gly Thr Ser Glu Gln Tyr Phe  
 1 5 10

<210> 34  
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<400> 34

Met Gly Pro Gly Leu Leu Cys Trp Val Leu Leu Cys Leu Leu Gly Ala  
1 5 10 15

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

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

Lys Ser Val Ser Trp Tyr Gln Gln Val Leu Gly Gln Gly Pro Gln Phe  
50 55 60

Ile Phe Gln Tyr Tyr Glu Lys Glu Glu Arg Gly Arg Gly Asn Phe Pro  
65 70 75 80

Asp Arg Phe Ser Ala Arg Gln Phe Pro Asn Tyr Ser Ser Glu Leu Asn  
85 90 95

Val Asn Ala Leu Leu Leu Gly Asp Ser Ala Leu Tyr Leu Cys Ala Ser  
100 105 110

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

Thr Val Thr  
130

<210> 35  
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<213> Homo sapiens

<400> 35

Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val Phe Glu Pro  
1 5 10 15

Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys Leu  
20 25 30

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

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

Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu Ser Ser Arg Leu  
65 70 75 80

Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn His Phe Arg Cys  
85 90 95

Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu Trp Thr Gln Asp  
100 105 110

Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp Gly Arg  
115 120 125

Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr Gln Gln Gly Val Leu Ser  
130 135 140

Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu Tyr Ala  
145 150 155 160

Val Leu Val Ser Ala Leu Val Leu Met Ala Met Val Lys Arg Lys Asp  
165 170 175

Ser Arg Gly

<210> 36

<211> 310

<212> PRT

<213> Homo sapiens

<400> 36

Met Gly Pro Gly Leu Leu Cys Trp Val Leu Leu Cys Leu Leu Gly Ala

|     |     |     |     |
|-----|-----|-----|-----|
| 1   | 5   | 10  | 15  |
| Gly | Pro | Val | Asp |
|     | 20  |     |     |
| Ala | Gly | Val | Thr |
|     |     | 25  |     |
| Gln | Ser | Pro | Thr |
|     |     |     | His |
| Leu | Ile | Lys |     |
|     | 30  |     |     |
| Thr | Arg | Gly | Gln |
|     | 35  |     |     |
| Gln | Val | Thr | Leu |
|     |     | 40  |     |
| Arg | Cys | Ser | Pro |
|     |     |     | Ile |
| Ser | Gly | His |     |
|     | 45  |     |     |
| Lys | Ser | Val | Ser |
|     | 50  |     |     |
| Trp | Tyr | Gln | Gln |
|     |     | 55  |     |
| Val | Leu | Gly | Gln |
|     |     |     | 60  |
| Pro | Gln | Phe |     |
|     |     |     |     |
| Ile | Phe | Gln | Tyr |
|     |     |     | Tyr |
|     |     | 70  |     |
| Glu | Lys | Glu | Glu |
|     |     |     | Arg |
|     |     | 75  |     |
| Gly | Arg | Gly | Asn |
|     |     |     | Phe |
| Pro |     |     | 80  |
|     |     |     |     |
| Asp | Arg | Phe | Ser |
|     |     | 85  |     |
| Ala | Arg | Gln | Phe |
|     |     |     | Pro |
|     |     | 90  |     |
| Asn | Tyr | Ser | Ser |
|     |     |     | Glu |
| Leu | Asn |     | 95  |
|     |     |     |     |
| Val | Asn | Ala | Leu |
|     |     |     | 100 |
| Leu | Leu | Gly | Asp |
|     |     |     | 105 |
| Ser | Ala | Leu | Tyr |
|     |     |     | 110 |
| Cys | Ala | Ser |     |
|     |     |     |     |
| Ser | Leu | Asp | Gly |
|     |     | 115 |     |
| Thr | Ser | Glu | Gln |
|     |     |     | 120 |
| Tyr | Phe | Gly | Pro |
|     |     |     | 125 |
| Gly | Thr | Arg | Leu |
|     |     |     |     |
| Thr | Val | Thr | Glu |
|     |     |     | 130 |
| Asp | Leu | Lys | Asn |
|     |     |     | 135 |
| Val | Phe | Pro | Pro |
|     |     |     | 140 |
| Glu | Val | Ala | Val |
|     |     |     |     |
| Phe | Glu | Pro | Ser |
|     |     |     | Glu |
|     |     | 150 |     |
| Ala | Glu | Ile | Ser |
|     |     |     | His |
|     |     | 155 |     |
| Thr | Gln | Lys | Ala |
|     |     |     | Thr |
| Leu |     |     | 160 |
|     |     |     |     |
| Val | Cys | Leu | Ala |
|     |     |     | 165 |
| Thr | Gly | Phe | Tyr |
|     |     |     | Pro |
|     |     | 170 |     |
| Asp | His | Val | Glu |
|     |     |     | Leu |
| Ser | Trp |     | 175 |
|     |     |     |     |
| Trp | Val | Asn | Gly |
|     |     |     | 180 |
| Lys | Glu | Val | His |
|     |     |     | Ser |
|     |     | 185 |     |
| Gly | Val | Ser | Thr |
|     |     |     | 190 |
| Asp | Pro | Gln |     |
|     |     |     |     |
| Pro | Leu | Lys | Glu |
|     |     |     | Gln |
|     |     | 195 |     |
| Pro | Ala | Leu | Asn |
|     |     |     | 200 |
| Asp | Ser | Arg | Tyr |
|     |     |     | Cys |
|     |     | 205 |     |
| Leu | Ser |     |     |
|     |     |     |     |
| Ser | Arg | Leu | Arg |
|     |     |     | Val |
|     |     | 210 |     |
| Ser | Ala | Thr | Phe |
|     |     |     | Trp |
|     |     | 215 |     |
| Gln | Asn | Pro | Arg |
|     |     |     | Asn |
|     |     | 220 |     |
| His |     |     |     |

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

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

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

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

Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala Met Val Lys  
290 295 300

Arg Lys Asp Ser Arg Gly  
305 310

<210> 37  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 37

Asp Ser Ala Ile Tyr Asn  
1 5

<210> 38  
<211> 3  
<212> PRT  
<213> Homo sapiens

<400> 38

Ile Gln Ser  
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<210> 39  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 39

Cys Ala Val Arg Pro Thr Ser Gly Gly Ser Tyr Ile Pro Thr Phe  
1 5 10 15

<210> 40  
<211> 133  
<212> PRT  
<213> Homo sapiens

<400> 40

Met Glu Thr Leu Leu Gly Leu Leu Ile Leu Trp Leu Gln Leu Gln Trp  
1 5 10 15

Val Ser Ser Lys Gln Glu Val Thr Gln Ile Pro Ala Ala Leu Ser Val  
20 25 30

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

Ile Tyr Asn Leu Gln Trp Phe Arg Gln Asp Pro Gly Lys Gly Leu Thr  
50 55 60

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

Leu Asn Ala Ser Leu Asp Lys Ser Ser Gly Arg Ser Thr Leu Tyr Ile  
85 90 95

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

Pro Thr Ser Gly Gly Ser Tyr Ile Pro Thr Phe Gly Arg Gly Thr Ser  
115 120 125

Leu Ile Val His Pro  
130

<210> 41  
<211> 141  
<212> PRT  
<213> Homo sapiens

<400> 41

Tyr Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu Arg Asp Ser Lys  
1 5 10 15

Ser Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe Asp Ser Gln Thr  
20 25 30

Asn Val Ser Gln Ser Lys Asp Ser Asp Val Tyr Ile Thr Asp Lys Thr  
35 40 45

Val Leu Asp Met Arg Ser Met Asp Phe Lys Ser Asn Ser Ala Val Ala  
50 55 60

Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala Asn Ala Phe Asn Asn Ser  
65 70 75 80

Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser Ser Cys Asp  
85 90 95

Val Lys Leu Val Glu Lys Ser Phe Glu Thr Asp Thr Asn Leu Asn Phe  
100 105 110

Gln Asn Leu Ser Val Ile Gly Phe Arg Ile Leu Leu Leu Lys Val Ala  
115 120 125

Gly Phe Asn Leu Leu Met Thr Leu Arg Leu Trp Ser Ser  
130 135 140

<210> 42  
<211> 274  
<212> PRT  
<213> Homo sapiens

<400> 42

Met Glu Thr Leu Leu Gly Leu Leu Ile Leu Trp Leu Gln Leu Gln Trp  
1 5 10 15

Val Ser Ser Lys Gln Glu Val Thr Gln Ile Pro Ala Ala Leu Ser Val  
20 25 30

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

Ile Tyr Asn Leu Gln Trp Phe Arg Gln Asp Pro Gly Lys Gly Leu Thr  
50 55 60

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

Leu Asn Ala Ser Leu Asp Lys Ser Ser Gly Arg Ser Thr Leu Tyr Ile  
85 90 95

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

Pro Thr Ser Gly Gly Ser Tyr Ile Pro Thr Phe Gly Arg Gly Thr Ser  
115 120 125

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

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

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

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

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

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

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

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

Leu Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu Arg Leu Trp

260

265

270

Ser Ser

<210> 43  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 43

Met Asn His Glu Tyr  
 1 5

<210> 44  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 44

Ser Val Gly Ala Gly Ile  
 1 5

<210> 45  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 45

Cys Ala Ser Ser Tyr Val Gly Asn Thr Gly Glu Leu Phe Phe  
 1 5 10

<210> 46  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 46

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala  
 1 5 10 15

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

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

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

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

Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg  
85 90 95

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

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

Leu Thr Val Leu  
130

<210> 47  
<211> 179  
<212> PRT  
<213> Homo sapiens

<400> 47

Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val Phe Glu Pro  
1 5 10 15

Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys Leu  
20 25 30

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

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

Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu Ser Ser Arg Leu  
65 70 75 80

Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn His Phe Arg Cys  
85 90 95

Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu Trp Thr Gln Asp  
100 105 110

Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp Gly Arg  
115 120 125

Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr Gln Gln Gly Val Leu Ser  
130 135 140

Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala Thr Leu Tyr Ala  
145 150 155 160

Val Leu Val Ser Ala Leu Val Leu Met Ala Met Val Lys Arg Lys Asp  
165 170 175

Ser Arg Gly

<210> 48  
<211> 311  
<212> PRT  
<213> Homo sapiens

<400> 48

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala  
1 5 10 15

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

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

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

Ile His Tyr Ser Val Gly Ala Gly Ile Thr Asp Gln Gly Glu Val Pro

65

70

75

80

Asn Gly Tyr Asn Val Ser Arg Ser Thr Thr Glu Asp Phe Pro Leu Arg  
85 90 95

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

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

Leu Thr Val Leu 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  
290 295 300

Lys Arg Lys Asp Ser Arg Gly  
305 310

<210> 49  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 49

Ile Leu Gln Asp Gly Gln Phe Leu Val  
1 5

<210> 50  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 50

Ala Leu Gln Asp Gly Gln Phe Leu Val  
1 5

<210> 51  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 51

Ile Ala Gln Asp Gly Gln Phe Leu Val  
1 5

<210> 52  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 52

Ile Leu Ala Asp Gly Gln Phe Leu Val  
1 5

<210> 53

<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 53

Ile Leu Gln Ala Gly Gln Phe Leu Val  
1 5

<210> 54  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 54

Ile Leu Gln Asp Ala Gln Phe Leu Val  
1 5

<210> 55  
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<212> PRT  
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<400> 55

Ile Leu Gln Asp Gly Ala Phe Leu Val  
1 5

<210> 56  
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<212> PRT  
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<400> 56

Ile Leu Gln Asp Gly Gln Ala Leu Val  
1 5

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

<400> 57

Ile Leu Gln Asp Gly Gln Phe Ala Val  
1 5

<210> 58  
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<400> 58

Ile Leu Gln Asp Gly Gln Phe Leu Ala  
1 5

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

<400> 59

Gly Leu Val Asp Gly Val Phe Leu Val  
1 5

<210> 60  
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<212> PRT  
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<400> 60

Ile Leu Gln Asp Gly Arg Ile Phe Ile  
1 5

<210> 61  
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<212> PRT  
<213> Homo sapiens

<400> 61

Ile Leu Gln Asp Leu Gln Pro Phe Leu  
1 5

<210> 62  
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<212> PRT  
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<400> 62

Ile Leu Gln Glu Gly Thr Phe Lys Ala  
1 5

<210> 63  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 63

Lys Leu Gln Asp Gly Asn His Leu Leu  
1 5

<210> 64  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 64

Leu Leu Gln Asp Gly Glu Phe Ser Met  
1 5

<210> 65  
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<400> 65

Leu Leu Gln Asp Lys Gln Phe Glu Leu  
1 5

<210> 66  
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<400> 66

Asn Leu Gln Glu Gly Glu Phe Leu Leu  
1 5

<210> 67  
<211> 9  
<212> PRT  
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<400> 67

Thr Leu Gln Asn Ser Gln Phe Leu Leu  
1 5

<210> 68  
<211> 9  
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<400> 68

Thr Leu Thr Asp Glu Gln Phe Leu Val  
1 5

<210> 69  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 69

Ser Leu Leu Met Trp Ile Thr Gln Val  
1 5

<210> 70  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 70

Thr Leu Gln Asp Gly Gln Phe Leu Val  
1 5

<210> 71  
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<400> 71

Ile Thr Gln Asp Gly Gln Phe Leu Val  
1 5

<210> 72  
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<212> PRT  
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<400> 72

Ile Leu Thr Asp Gly Gln Phe Leu Val

1 5

<210> 73  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 73

Ile Leu Gln Thr Gly Gln Phe Leu Val  
1 5

<210> 74  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 74

Ile Leu Gln Asp Thr Gln Phe Leu Val  
1 5

<210> 75  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 75

Ile Leu Gln Asp Gly Thr Phe Leu Val  
1 5

<210> 76  
<211> 9  
<212> PRT  
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<400> 76

Ile Leu Gln Asp Gly Gln Thr Leu Val  
1 5

<210> 77  
<211> 9  
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<400> 77

Ile Leu Gln Asp Gly Gln Phe Thr Val  
1 5

<210> 78

<211> 9

<212> PRT

<213> Homo sapiens

<400> 78

Ile Leu Gln Asp Gly Gln Phe Leu Thr  
1 5