

# SEQUENCE LISTING

<110> ARGENX BVBA

<120> CD70 COMBINATION THERAPY

<130> NLW/P157115W000

<150> GB1800649.4

<151> 2018-01-16

<160> 136

<170> PatentIn version 3.5

<210> 1

<211> 5

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 1

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| Val | Tyr | Tyr | Met | Asn |
| 1   |     |     |     | 5   |

<210> 2

<211> 17

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 2

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Asn | Asn | Glu | Gly | Gly | Thr | Thr | Tyr | Tyr | Ala | Asp | Ser | Val | Lys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

Gly

<210> 3

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 3

Asp Ala Gly Tyr Ser Asn His Val Pro Ile Phe Asp Ser  
1 5 10

<210> 4

<211> 122

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 4

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 Phe Ser Val Tyr  
20 25 30

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

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

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

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

<210> 5

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 5

Gly Leu Lys Ser Gly Ser Val Thr Ser Asp Asn Phe Pro Thr  
1 5 10

<210> 6

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 6

Asn Thr Asn Thr Arg His Ser  
1 5

<210> 7

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 7

Ala Leu Phe Ile Ser Asn Pro Ser Val Glu  
1 5 10

<210> 8

<211> 111

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 8

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

Thr Val Thr Leu Thr Cys Gly Leu Lys Ser Gly Ser Val Thr Ser Asp  
20 25 30

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

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

Ser Gly Ser Ile Leu Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala  
65 70 75 80

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

Pro Ser Val Glu Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Gly  
100 105 110

<210> 9

<211> 123

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 9

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 Phe Ser Ser Tyr  
20 25 30

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

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

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

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

Ala Lys Asp Val Ser Gly Gly Tyr Tyr Gly Thr Tyr Ala Leu Asp Ala  
100 105 110

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

<210> 10  
<211> 106  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 10

Ser Tyr Glu Leu Thr Gln Ser Pro Ser Val Ser Val Ala Leu Lys Gln  
1 5 10 15

Thr Ala Lys Ile Thr Cys Gly Gly Asp Asn Ile Gly Ser Lys Ser Ala  
20 25 30

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

Ala Asp Ser Arg Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

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

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Ser Ser Ala Ala Val  
85 90 95

Phe Gly Gly Gly Thr His Leu Thr Val Leu  
100 105

<210> 11  
<211> 121

<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 11

Glu Val Gln Val Gln 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 Phe Ser Ser Tyr  
20 25 30

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

Ser Asp Ile Asn Ser Gly Gly Gly Ser Thr Val Tyr Thr Asp Ser Val  
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

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

Gln Gly Thr Gln Val Thr Val Ser Ser  
115 120

<210> 12  
<211> 114  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 12

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

Glu Lys Val Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu Asp Ser  
20 25 30

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

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

Pro Asp Arg Phe Ser Gly Ser Gly Ser Thr Thr Asp Phe Thr Leu Thr  
65 70 75 80

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

Gly Tyr Ser Val Pro Val Thr Phe Gly Gln Gly Thr Lys Val Glu Leu  
100 105 110

Lys Arg

<210> 13  
<211> 124  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 13

Gln 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 Phe Ser Asn Tyr  
20 25 30

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

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

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

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

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

Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser  
115 120

<210> 14

<211> 115

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 14

Asn Phe Met Leu Thr Gln Pro Pro Ser Leu Ser Gly Ser Leu Gly Gln  
1 5 10 15

Ser Ala Arg Leu Thr Cys Thr Leu Gly Ser Gly Asn Ser Ile Gly Ala  
20 25 30

His Thr Ile Ser Trp Tyr Gln Gln Lys Ala Gly Ser Pro Pro Arg Tyr  
35 40 45

Leu Leu Asn Tyr Tyr Ser Asp Ser Ser Asn His Gln Ala Ser Gly Val  
50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Asp Ser Thr Asn Ala Gly Leu  
65 70 75 80

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

Ala Ala Gly Asp Gly Ser Gly Thr Val Phe Gly Gly Gly Thr Lys Leu

100

105

110

Thr Val Leu  
115

<210> 15  
<211> 122  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 15

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Thr Thr Ser  
20 25 30

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

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

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

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

Cys Ala Arg Thr Lys Gly Val Gly Gly Thr Trp Ala Leu Asp Ala Trp  
100 105 110

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

<210> 16  
<211> 114  
<212> PRT  
<213> Artificial

<220>

<223> Synthetic peptide

<400> 16

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

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

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

Ser Pro Arg Leu Leu Ile Thr Trp Ala Ser Thr Arg Glu Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Thr Thr Asp Phe Thr Leu Thr  
65 70 75 80

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

Gly Tyr Gly Ala Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Leu  
100 105 110

Lys Arg

<210> 17

<211> 122

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 17

Gln 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 Ala Phe Ser Ser Tyr

20

25

30

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

Ser Thr Ile Asn Ser Gly Gly Gly Ser Thr Asn Tyr Ala Asp Ser Met  
 50 55 60

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

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

Ala Ala Arg Ser Pro Tyr Tyr Thr Arg Val Pro Leu Tyr Asp Tyr Trp  
 100 105 110

Gly Gln Gly Thr Gln Val Thr Val Ser Ser  
 115 120

<210> 18

<211> 110

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 18

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

Thr Val Thr Leu Thr Cys Gly Leu Arg Ser Gly Ser Val Thr Thr Ser  
 20 25 30

Asn Tyr Pro Gly Trp Phe Lys Gln Thr Pro Gly Gln Ala Pro Arg Thr  
 35 40 45

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

Ser Gly Ser Ile Ser Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala  
65 70 75 80

Glu Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Leu Asn Lys Gly Thr  
85 90 95

Tyr Thr Asp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 19

<211> 125

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 19

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

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

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

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

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

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

Cys Ala Thr Glu Gly Ser Ser Ser Thr Gly Val Ser Arg Tyr Ser Phe  
100 105 110

Gly Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser  
115 120 125

<210> 20  
<211> 111  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 20

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

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

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

Pro Gln Leu Leu Ile Tyr Glu Val Ser Val Arg Ala Ser Gly Val Pro  
50 55 60

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

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

Ala Tyr Tyr Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Leu Lys  
100 105 110

<210> 21  
<211> 118  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 21

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Thr Thr Asn  
20 25 30

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

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

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

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

Cys Ala His Phe Thr Gly Trp Gly Gly Tyr Tyr Trp Gly Gln Gly Thr  
100 105 110

Gln Val Thr Val Ser Ser  
115

<210> 22  
<211> 110  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 22

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

Thr Val Thr Ile Ser Cys Ala Gly Thr Ser Ser Asp Ile Gly Gly Tyr  
20 25 30

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

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

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Ser Ile Ser Gly Leu  
65 70 75 80

Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Tyr Arg Ser Ala  
85 90 95

Asn Asn Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 23  
<211> 122  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 23

Gln 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 Ala Phe Ser Ser Tyr  
20 25 30

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

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

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

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

Ala Ala Arg Ser Leu Tyr Tyr Thr Arg Val Pro Met Tyr Asp Tyr Trp  
100 105 110

Gly Gln Gly Thr Gln Val Thr Val Ser Lys  
115 120

<210> 24  
 <211> 110  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic peptide

<400> 24

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

Thr Val Thr Leu Thr Cys Gly Leu Ser Ser Gly Ser Val Thr Thr Asn  
 20 25 30

Asn Tyr Pro Gly Trp Phe Gln Gln Thr Pro Gly Gln Ala Pro Arg Thr  
 35 40 45

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

Ser Gly Ser Ile Ser Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala  
 65 70 75 80

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

Tyr Thr Ala Val Phe Gly Gly Gly Thr His Leu Thr Val Leu  
 100 105 110

<210> 25  
 <211> 125  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic peptide

<400> 25

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Met Tyr  
20 25 30

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

Gly Arg Ile Asp Pro Glu Asp Gly Gly Thr Lys Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Phe Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

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

Ala Arg Ile Pro Asn Gly Gly Ser Tyr Tyr Tyr Thr Pro Tyr Asp Tyr  
100 105 110

Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser  
115 120 125

<210> 26

<211> 110

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 26

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

Thr Val Thr Leu Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Ser Ser  
20 25 30

Asn Tyr Pro Gly Trp Tyr Arg Gln Thr Pro Gly Gln Ala Pro Arg Pro  
35 40 45

Leu Ile Tyr Asn Thr Asn Ser Arg His Pro Gly Val Pro Ser Arg Tyr  
50 55 60

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

Glu Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Leu His Lys Gly Ser  
85 90 95

Tyr Thr Ala Val Phe Gly Gly Gly Thr His Leu Thr Val Leu  
100 105 110

<210> 27

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 27

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

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

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

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

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

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

Ala Lys Lys Arg Gln Asn Phe Trp Ser Glu Gly Tyr Asp Ser Trp Gly  
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser

115

120

<210> 28  
 <211> 110  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic peptide

<400> 28

His Ser Ala Val Thr Gln Pro Pro Ser Val Ser Gly Ser Pro Gly Lys  
 1 5 10 15

Ala Val Thr Ile Ser Cys Val Gly Ser Ser Ser Asp Val Gly Tyr Gly  
 20 25 30

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

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

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
 65 70 75 80

Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Tyr Arg Ser Asp  
 85 90 95

Ser Asn Phe Val Phe Gly Gly Gly Thr His Leu Ala Val Leu  
 100 105 110

<210> 29  
 <211> 120  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic peptide

<400> 29

Gln Leu 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 Phe Gly Ser Tyr  
20 25 30

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

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

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

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

Ala Gly Gln Tyr Ser Asp Gly Tyr Tyr Pro Tyr Asp Tyr Trp Gly Gln  
100 105 110

Gly Thr Gln Val Thr Val Ser Ser  
115 120

<210> 30  
<211> 107  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 30

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

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

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

Tyr Gly Ala Ser Arg Leu Glu Pro Gly Val Pro Ser Arg Phe Ser Gly

50

55

60

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

Glu Asp Leu Ala Thr Tyr Tyr Cys Leu Gln Asp Tyr Ser Trp Pro Tyr  
85 90 95

Ser Phe Gly Ser Gly Thr Arg Leu Glu Ile Lys  
100 105

<210> 31

<211> 114

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 31

Glu Leu Gln Val 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 Phe Gly Ser Tyr  
20 25 30

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

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

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys  
85 90 95

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

Ser Ser

<210> 32  
<211> 111  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 32

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

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

Asp Gly Lys Thr Tyr Leu Tyr Trp Leu Leu Gln Lys Pro Gly Arg Arg  
35 40 45

Pro Glu Leu Leu Ile Tyr Gln Val Ser Asn His Glu Ser Gly Val Pro  
50 55 60

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

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

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

<210> 33  
<211> 117  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 33

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

|     |     |     |     |
|-----|-----|-----|-----|
| 1   | 5   | 10  | 15  |
| Ser | Leu | Arg | Leu |
|     | 20  |     |     |
| Ser | Cys | Ala | Ala |
|     |     | 25  |     |
| Ser | Gly | Phe | Thr |
|     |     |     | 30  |
| Thr | Met | Ser | Trp |
|     | 35  |     |     |
| Val | Arg | Gln | Val |
|     |     | 40  |     |
| Pro | Gly | Lys | Gly |
|     |     |     | 45  |
| Leu | Glu | Trp | Ile |
|     |     |     |     |
| Ser | Gly | Ile | Ser |
|     | 50  |     |     |
| Gly | Asn | Gly | Gly |
|     |     | 55  |     |
| Arg | Thr | Asp | Tyr |
|     |     |     | 60  |
| Val | Glu | Pro | Ile |
|     |     |     |     |
| Glu | Gly | Arg | Phe |
|     | 65  |     |     |
| Thr | Ile | Ser | Arg |
|     |     | 70  |     |
| Asp | Asn | Ala | Lys |
|     |     | 75  |     |
| Asn | Thr | Leu | Tyr |
|     |     |     | 80  |
| Leu | Gln | Met | Asn |
|     |     | 85  |     |
| Ser | Leu | Lys | Ser |
|     |     |     |     |
| Glu | Asp | Thr | Ala |
|     | 90  |     |     |
| Val | Tyr | Tyr | Cys |
|     |     |     | 95  |
| Ala | Lys | Thr | Ser |
|     |     | 100 |     |
| Pro | Gln | Ser | Leu |
|     |     |     |     |
| Asp | Tyr | Trp | Gly |
|     | 105 |     |     |
| Gln | Gly | Thr | Gln |
|     |     |     | 110 |
| Val | Thr | Val | Ser |
|     |     | 115 |     |

<210> 34  
 <211> 113  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic peptide

<400> 34

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Val | Met | Thr | Gln | Ser | Pro | Ser | Ser | Val | Thr | Ala | Ser | Val | Gly |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Glu | Lys | Val | Thr | Ile | Asn | Cys | Lys | Ser | Ser | Gln | Ser | Val | Val | Ser | Gly |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     |     | 30  |     |
| Ser | Asn | Gln | Lys | Ser | Tyr | Leu | Asn | Trp | Tyr | Gln | Gln | Arg | Pro | Gly | Gln |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |

Pro Pro Arg Leu Leu Ile Tyr Tyr Ala Ser Thr Gln Glu Ser Gly Ile  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Thr Thr Asp Phe Thr Leu Thr  
65 70 75 80

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

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

Lys

<210> 35  
<211> 114  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 35

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 Phe Gly Ser Tyr  
20 25 30

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

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

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

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

Ala Lys Val Val Ile Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val  
100 105 110

Ser Ser

<210> 36  
<211> 111  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 36

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

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

Asp Gly Lys Thr Tyr Val Tyr Trp Leu Leu Gln Lys Pro Gly Gln Arg  
35 40 45

Pro His Leu Leu Ile Tyr Gln Val Ser Asn His Glu Ser Gly Val Pro  
50 55 60

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

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

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

<210> 37  
<211> 125  
<212> PRT  
<213> Artificial

<220>

<223> Synthetic peptide

<400> 37

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 Phe Ser Ser Tyr  
20 25 30

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

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

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

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

Val Lys His Ile Arg Trp Ser Gly Ser Asn Tyr Tyr Tyr Tyr Gly Met  
100 105 110

Asp Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 38

<211> 110

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 38

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

Arg Phe Thr Ile Ser Cys Thr Gly Ser Asn Arg Asn Ile Gly Asn Asn  
20 25 30

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

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

Ala Ser Lys Ser Gly Thr Thr Ser Ser Leu Thr Ile Ser Gly Leu Gln  
65 70 75 80

Ala Glu Asp Glu Ala Val Tyr Tyr Cys Ser Ser Trp Asp Asp Ser Leu  
85 90 95

Ser Gly Ala Val Phe Gly Gly Gly Thr His Leu Thr Val Leu  
100 105 110

<210> 39  
<211> 5  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 39

Ser Tyr Ala Met Ser  
1 5

<210> 40  
<211> 17  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 40

His Ile Asn Ser Gly Gly Gly Asn Thr Lys Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 41  
<211> 14  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 41

Asp Val Ser Gly Gly Tyr Tyr Gly Thr Tyr Ala Leu Asp Ala  
1 5 10

<210> 42  
<211> 17  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 42

Asp Ile Asn Ser Gly Gly Gly Ser Thr Val Tyr Thr Asp Ser Val Lys  
1 5 10 15

Gly

<210> 43  
<211> 12  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 43

Gly Gly Ser Tyr Tyr Ser Tyr Arg Leu Phe Asp Tyr  
1 5 10

<210> 44  
<211> 5  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 44

Asn Tyr Trp Met Tyr  
1 5

<210> 45

<211> 17

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 45

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

Asp

<210> 46

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 46

Val Lys Leu Ser Gly Tyr Pro His Pro Tyr Tyr Ala Met Asp Tyr  
1 5 10 15

<210> 47

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 47

Thr Ser Asp Asp Ala Trp Ser  
1 5

<210> 48  
<211> 16  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 48

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

<210> 49  
<211> 12  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 49

Thr Lys Gly Val Gly Gly Thr Trp Ala Leu Asp Ala  
1 5 10

<210> 50  
<211> 5  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 50

Ser Tyr Asp Met Ser  
1 5

<210> 51  
<211> 17  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 51

Thr Ile Asn Ser Gly Gly Gly Ser Thr Asn Tyr Ala Asp Ser Met Lys

1 5 10 15

Gly

<210> 52  
<211> 13  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 52

Arg Ser Pro Tyr Tyr Thr Arg Val Pro Leu Tyr Asp Tyr  
1 5 10

<210> 53  
<211> 7  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 53

Thr Arg Tyr Asn Tyr Trp Ser  
1 5

<210> 54  
<211> 16  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 54

Ala Ile Thr Tyr Ser Gly Ser Thr Tyr Tyr Ser Pro Ser Leu Lys Ser  
1 5 10 15

<210> 55  
<211> 15  
<212> PRT  
<213> Artificial

<220>

<223> Synthetic peptide

<400> 55

Glu Gly Ser Ser Ser Thr Gly Val Ser Arg Tyr Ser Phe Gly Ser  
1 5 10 15

<210> 56

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 56

Thr Asn Arg Tyr Leu Trp Thr  
1 5

<210> 57

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 57

Ala Ile Ala Tyr Ser Gly Arg Thr Tyr Tyr Ser Pro Ser Leu Lys Ser  
1 5 10 15

<210> 58

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 58

Phe Thr Gly Trp Gly Gly Tyr Tyr  
1 5

<210> 59

<211> 17  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 59

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Asn | Ser | Gly | Gly | Gly | Ser | Thr | Ser | Tyr | Ala | Asp | Ser | Val | Lys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

Gly

<210> 60  
<211> 13  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 60

|     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ser | Leu | Tyr | Tyr | Thr | Arg | Val | Pro | Met | Tyr | Asp | Tyr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |

<210> 61  
<211> 5  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 61

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| Met | Tyr | Tyr | Ile | Asp |
| 1   |     |     |     | 5   |

<210> 62  
<211> 17  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 62

Arg Ile Asp Pro Glu Asp Gly Gly Thr Lys Tyr Ala Gln Lys Phe Gln  
1 5 10 15

Gly

<210> 63

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 63

Ile Pro Asn Gly Gly Ser Tyr Tyr Tyr Thr Pro Tyr Asp Tyr Asp Tyr  
1 5 10 15

<210> 64

<211> 17

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 64

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

Gly

<210> 65

<211> 12

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 65

Lys Arg Gln Asn Phe Trp Ser Glu Gly Tyr Asp Ser

1 5 10

<210> 66  
<211> 16  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 66

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

<210> 67  
<211> 12  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 67

Gly Gln Tyr Ser Asp Gly Tyr Tyr Pro Tyr Asp Tyr  
1 5 10

<210> 68  
<211> 17  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 68

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

Gly

<210> 69  
<211> 5  
<212> PRT  
<213> Artificial

<220>

<223> Synthetic peptide

<400> 69

Ile Val Leu Asp Ser  
1 5

<210> 70

<211> 5

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 70

Asp Tyr Thr Met Ser  
1 5

<210> 71

<211> 17

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 71

Gly Ile Ser Gly Asn Gly Gly Arg Thr Asp Tyr Val Glu Pro Ile Glu  
1 5 10 15

Gly

<210> 72

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 72

Thr Ser Pro Gln Ser Leu Asp Tyr

1

5

<210> 73  
<211> 17  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 73

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

Asp

<210> 74  
<211> 5  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 74

Val Val Ile Asp Tyr  
1 5

<210> 75  
<211> 5  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 75

Ser Tyr Ser Met Ser  
1 5

<210> 76  
<211> 17  
<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 76

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ile | Asn | Thr | Ser | Gly | Gly | Thr | Thr | Ser | Tyr | Ala | Ala | Ser | Val | Lys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

Gly

<210> 77

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 77

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Ile | Arg | Trp | Ser | Gly | Ser | Asn | Tyr | Tyr | Tyr | Tyr | Gly | Met | Asp | Tyr |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |

<210> 78

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 78

|     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gly | Asp | Asn | Ile | Gly | Ser | Lys | Ser | Ala | Gln |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |

<210> 79

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 79

Ala Asp Ser Arg Arg Pro Ser  
1 5

<210> 80  
<211> 9  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 80

Gln Val Trp Asp Ser Ser Ala Ala Val  
1 5

<210> 81  
<211> 17  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 81

Lys Ser Ser Gln Ser Val Leu Asp Ser Ser Asn Gln Lys Asn Tyr Leu  
1 5 10 15

Ala

<210> 82  
<211> 7  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 82

Trp Ala Ser Thr Arg Glu Ser  
1 5

<210> 83  
<211> 9  
<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 83

Gln Gln Gly Tyr Ser Val Pro Val Thr  
1 5

<210> 84

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 84

Thr Leu Gly Ser Gly Asn Ser Ile Gly Ala His Thr Ile Ser  
1 5 10

<210> 85

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 85

Tyr Tyr Ser Asp Ser Ser Asn His Gln Ala Ser Gly Val  
1 5 10

<210> 86

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 86

Ala Ala Gly Asp Gly Ser Gly Thr Val  
1 5

<210> 87  
<211> 17  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 87

Lys Ser Ser Gln Ser Val Leu Ser Ser Ser Asn Gln Lys Asn Tyr Leu  
1 5 10 15

Ser

<210> 88  
<211> 9  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 88

Gln Gln Gly Tyr Gly Ala Pro Leu Thr  
1 5

<210> 89  
<211> 14  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 89

Gly Leu Arg Ser Gly Ser Val Thr Thr Ser Asn Tyr Pro Gly  
1 5 10

<210> 90  
<211> 7  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 90

Gly Ala Ser Ser Arg His Ser  
1 5

<210> 91

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 91

Ala Leu Asn Lys Gly Thr Tyr Thr Asp Val  
1 5 10

<210> 92

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 92

Lys Ala Ser Gln Ser Leu Thr His Thr Asp Gly Thr Thr Ala Leu Tyr  
1 5 10 15

<210> 93

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 93

Glu Val Ser Val Arg Ala Ser  
1 5

<210> 94

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 94

Ala Gln Val Ala Tyr Tyr Pro Thr  
1 5

<210> 95

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 95

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

<210> 96

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 96

Glu Val Asn Lys Arg Ala Ser  
1 5

<210> 97

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 97

Ala Ser Tyr Arg Ser Ala Asn Asn Val Val  
1 5 10

<210> 98

<211> 14  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 98

Gly Leu Ser Ser Gly Ser Val Thr Thr Asn Asn Tyr Pro Gly  
1 5 10

<210> 99  
<211> 7  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 99

Ser Thr Ser Ser Arg His Ser  
1 5

<210> 100  
<211> 10  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 100

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

<210> 101  
<211> 14  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 101

Gly Leu Thr Ser Gly Ser Val Thr Ser Ser Asn Tyr Pro Gly  
1 5 10

<210> 102  
<211> 7  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 102

Asn Thr Asn Ser Arg His Pro  
1 5

<210> 103  
<211> 10  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 103

Ala Leu His Lys Gly Ser Tyr Thr Ala Val  
1 5 10

<210> 104  
<211> 14  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 104

Val Gly Ser Ser Ser Asp Val Gly Tyr Gly Asp Tyr Val Ser  
1 5 10

<210> 105  
<211> 7  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 105

Asp Val Glu Lys Arg Ala Ser  
1 5

<210> 106  
<211> 10  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 106

Ala Ser Tyr Arg Ser Asp Ser Asn Phe Val  
1 5 10

<210> 107  
<211> 11  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 107

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

<210> 108  
<211> 7  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 108

Gly Ala Ser Arg Leu Glu Pro  
1 5

<210> 109  
<211> 9  
<212> PRT  
<213> Artificial

<220>

<223> Synthetic peptide

<400> 109

Leu Gln Asp Tyr Ser Trp Pro Tyr Ser  
1 5

<210> 110

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 110

Lys Ala Ser Gln Ser Leu Ile His Ile Asp Gly Lys Thr Tyr Leu Tyr  
1 5 10 15

<210> 111

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 111

Gln Val Ser Asn His Glu Ser  
1 5

<210> 112

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 112

Ala Gln Ala Thr Tyr Tyr Pro Ser  
1 5

<210> 113

<211> 17

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 113

Lys Ser Ser Gln Ser Val Val Ser Gly Ser Asn Gln Lys Ser Tyr Leu  
1 5 10 15

Asn

<210> 114

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 114

Tyr Ala Ser Thr Gln Glu Ser  
1 5

<210> 115

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 115

Gln Gln Ala Tyr Ser Ala Pro Tyr Asn  
1 5

<210> 116

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 116

Lys Ala Ser Gln Ser Leu Val His Thr Asp Gly Lys Thr Tyr Val Tyr  
1 5 10 15

<210> 117  
<211> 8  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 117

Ala Gln Ala Thr Tyr Tyr Pro Ser  
1 5

<210> 118  
<211> 13  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 118

Thr Gly Ser Asn Arg Asn Ile Gly Asn Asn Tyr Val Asn  
1 5 10

<210> 119  
<211> 7  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 119

Ser Asp Asn Leu Arg Thr Ser  
1 5

<210> 120  
<211> 11  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 120

Ser Ser Trp Asp Asp Ser Leu Ser Gly Ala Val  
1 5 10

<210> 121

<211> 117

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 121

Gln 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 Ile Phe Ile Asn Tyr  
20 25 30

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

Ser Ala Val Asn Ser Gly Gly Ala Ser Thr Asp Tyr Ala Asp Ser Val  
50 55 60

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

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

Val Lys Gly Trp Phe Tyr Gly Ile His Tyr Trp Gly Lys Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser  
115

<210> 122

<211> 111

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 122

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

Lys Ile Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Gly Gly  
20 25 30

Tyr Ser Val Gln Trp Phe Gln His Leu Pro Gly Thr Pro Pro Lys Leu  
35 40 45

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

Ser Gly Ser Lys Ser Gly Ser Ser Ala Ser Leu Thr Ile Thr Gly Leu  
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Glu Ser Tyr Asp Asp Trp  
85 90 95

Leu Lys Gly Arg Gly Phe Gly Gly Gly Ser Lys Leu Thr Val Leu  
100 105 110

<210> 123

<211> 124

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 123

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Thr Thr Asn  
20 25 30

Tyr Tyr Ser Trp Ile Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu

35

40

45

Trp Met Gly Ala Ser Val Tyr Ser Gly Ser Thr Phe Tyr Ser Pro Ser  
 50 55 60

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

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

Ala Arg Ala Ser Ser Ala His Trp Gly Ser Ser Phe Ile Ser Ile Asp  
 100 105 110

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

<210> 124  
 <211> 110  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic peptide

<400> 124

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

Thr Val Thr Ile Ser Cys Ala Gly Thr Ser Ser Asp Val Gly Tyr Gly  
 20 25 30

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

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

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
 65 70 75 80

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

Asn Asn Ala Val Phe Gly Gly Gly Thr His Leu Thr Val Leu  
100 105 110

<210> 125  
<211> 5  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 125

Asn Tyr Gly Met His  
1 5

<210> 126  
<211> 17  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 126

Ala Val Asn Ser Gly Gly Ala Ser Thr Asp Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 127  
<211> 8  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 127

Gly Trp Phe Tyr Gly Ile His Tyr  
1 5

<210> 128  
<211> 7  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 128

Thr Asn Tyr Tyr Ser Trp Ile  
1 5

<210> 129  
<211> 16  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 129

Ala Ser Val Tyr Ser Gly Ser Thr Phe Tyr Ser Pro Ser Leu Lys Asn  
1 5 10 15

<210> 130  
<211> 15  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 130

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

<210> 131  
<211> 14  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 131

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

<210> 132  
<211> 7  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 132

Gly Asn Ser Asn Arg Ala Ser  
1 5

<210> 133  
<211> 11  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 133

Glu Ser Tyr Asp Asp Trp Leu Lys Gly Arg Gly  
1 5 10

<210> 134  
<211> 14  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 134

Ala Gly Thr Ser Ser Asp Val Gly Tyr Gly Asn Tyr Val Ser  
1 5 10

<210> 135  
<211> 7  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic peptide

<400> 135

Asp Val Asp Ile Arg Ala Ser  
1 5

<210> 136

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide

<400> 136

Ala Ser Tyr Arg Thr Asn Asn Asn Ala Val  
1 5 10