

SEQUENCE LISTING

<110> Boehringer Ingelheim International GmbH

<120> Multi-specific binding proteins for cancer treatment

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<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#18 HCCDR2

<400> 107

Gly Ile Tyr Leu Ser Gly Asp Ser Thr Asp Tyr Asn Glu Lys Phe Lys  
1 5 10 15  
Gly

<210> 108

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#18 HCCDR3

<400> 108

Arg Gly Asp Tyr Phe Gly Asp Phe  
1 5

<210> 109

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#19 LCCDR1

<400> 109

Lys Ala Ser Gln Asn Val Gly Lys Tyr Val Ala  
1 5 10

<210> 110

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#19 LCCDR2

<400> 110

Ser Ala Ser Asn Arg Tyr Asp

1 5

<210> 111

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#19 LCCDR3

<400> 111

Gln Gln Tyr Ile Ser Tyr Pro Leu Thr

1 5

<210> 112

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#19 HCCDR1

<400> 112

Gly Tyr Thr Phe Thr Ser Tyr Trp Met Asn

1 5 10

<210> 113

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#19 HCCDR2

<400> 113

Gly Ile Tyr Leu Ser Gly Glu Ser Thr Asp Tyr Asn Glu Lys Phe Lys

1 5 10 15

Gly

<210> 114  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> B7H6#19 HCCDR3

<400> 114  
Arg Gly Asp Tyr Phe Gly Asp Phe  
1 5

<210> 115  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> B7H6#20 LCCDR1

<400> 115  
Lys Ala Ser Gln Asn Val Gly Lys Tyr Val Ala  
1 5 10

<210> 116  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> B7H6#20 LCCDR2

<400> 116  
Ser Ala Ser Asn Arg Tyr Asp  
1 5

<210> 117  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> B7H6#20 LCCDR3

<400> 117  
Gln Gln Tyr Ile Ser Tyr Pro Leu Thr

1

5

<210> 118

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#20 HCCDR1

<400> 118

Gly Tyr Thr Phe Thr Ser Tyr Trp Met Asn

1

5

10

<210> 119

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#20 HCCDR2

<400> 119

Gly Ile Tyr Leu Ser Gly Asp Ser Thr Asp Tyr Asn Glu Lys Phe Lys

1

5

10

15

Gly

<210> 120

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#20 HCCDR3

<400> 120

Arg Gly Asp Tyr Phe Gly Asp Phe

1

5

<210> 121

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#21 LCCDR1

<400> 121

Lys Ala Ser Gln Asn Val Gly Lys Tyr Val Ala

1 5 10

<210> 122

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#21 LCCDR2

<400> 122

Ser Ala Ser Asn Arg Tyr Asp

1 5

<210> 123

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#21 LCCDR3

<400> 123

Gln Gln Tyr Ile Ser Tyr Pro Leu Thr

1 5

<210> 124

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#21 HCCDR1

<400> 124

Gly Tyr Thr Phe Thr Ser Tyr Trp Met Asn

1 5 10

<210> 125

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#21 HCCDR2

<400> 125

Gly Ile Tyr Leu Ser Gly Glu Ser Thr Asp Tyr Asn Glu Lys Phe Lys  
1 5 10 15  
Gly

<210> 126

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#21 HCCDR3

<400> 126

Arg Gly Asp Tyr Phe Gly Asp Phe  
1 5

<210> 127

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#22 LCCDR1

<400> 127

Lys Ala Ser Gln Asn Val Gly Lys Tyr Val Ala  
1 5 10

<210> 128

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#22 LCCDR2

<400> 128

Ser Ala Ser Asn Arg Tyr Asp  
1 5

<210> 129  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> B7H6#22 LCCDR3

<400> 129  
Gln Gln Tyr Ile Ser Tyr Pro Leu Thr  
1 5

<210> 130  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> B7H6#22 HCCDR1

<400> 130  
Gly Tyr Thr Phe Thr Ser Tyr Trp Met Asn  
1 5 10

<210> 131  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> B7H6#22 HCCDR2

<400> 131  
Gly Ile Tyr Leu Ser Gly Asp Ser Thr Asp Tyr Asn Glu Lys Phe Lys  
1 5 10 15  
Gly

<210> 132  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>

<223> B7H6#22 HCCDR3

<400> 132

Arg Gly Asp Tyr Phe Gly Asp Phe  
1 5

<210> 133

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#23 LCCDR1

<400> 133

Lys Ala Ser Gln Asn Val Gly Lys Tyr Val Ala  
1 5 10

<210> 134

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#23 LCCDR2

<400> 134

Ser Ala Ser Asn Arg Tyr Asp  
1 5

<210> 135

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#23 LCCDR3

<400> 135

Gln Gln Tyr Ile Ser Tyr Pro Leu Thr  
1 5

<210> 136

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#23 HCCDR1

<400> 136

Gly Tyr Thr Phe Thr Ser Tyr Trp Met Asn

1 5 10

<210> 137

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#23 HCCDR2

<400> 137

Gly Ile Tyr Leu Ser Gly Glu Ser Thr Asp Tyr Asn Glu Lys Phe Lys

1 5 10 15

Gly

<210> 138

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#23 HCCDR3

<400> 138

Arg Gly Asp Tyr Phe Gly Asp Phe

1 5

<210> 139

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#24 LCCDR1

<400> 139

Lys Ala Ser Gln Asn Val Gly Lys Tyr Val Ala

1 5 10

<210> 140  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> B7H6#24 LCCDR2

<400> 140  
Ser Ala Ser Asn Arg Tyr Asp  
1 5

<210> 141  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> B7H6#24 LCCDR3

<400> 141  
Gln Gln Tyr Ile Ser Tyr Pro Leu Thr  
1 5

<210> 142  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> B7H6#24 HCCDR1

<400> 142  
Gly Tyr Thr Phe Thr Asn Tyr Trp Met Asn  
1 5 10

<210> 143  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> B7H6#24 HCCDR2

<400> 143  
Gly Ile Tyr Leu Ser Gly Asp Ser Thr Asp Tyr Asn Glu Lys Phe Lys

1                      5                      10                      15  
 Gly

<210> 144  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#24 HCCDR3

<400> 144  
 Arg Gly Asp Tyr Phe Gly Asp Phe  
 1                      5

<210> 145  
 <211> 113  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#1 VL

<400> 145  
 Asp Ile Val Met Ser Gln Ser Pro Ser Ser Leu Ala Val Ser Val Gly  
 1                      5                      10                      15  
 Glu Lys Val Thr Met Asn Cys Lys Ser Ser Gln Ser Leu Phe Tyr Ser  
 20                      25                      30  
 Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln  
 35                      40                      45  
 Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val  
 50                      55                      60  
 Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr  
 65                      70                      75                      80  
 Ile Ser Ser Val Lys Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Gln  
 85                      90                      95  
 Tyr Tyr Asn Tyr Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile  
 100                      105                      110  
 Lys

<210> 146  
 <211> 119  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> B7H6#1 VH

<400> 146

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

<210> 147

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#2 VL

<400> 147

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

<210> 148

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#2 VH

<400> 148

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Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly Ala
1          5          10          15
Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asn Thr
          20          25          30
Phe Ile His Trp Val Asn Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile
          35          40          45
Gly Arg Ile Asp Pro Ala Asn Gly Asn Thr Ile Tyr Ala Ser Lys Phe
          50          55          60
Gln Gly Arg Ala Thr Ile Thr Thr Asp Thr Ser Ser Asn Thr Ala Tyr
65          70          75          80
Met His Leu Ser Ser Leu Thr Ser Gly Asp Thr Ala Val Tyr Tyr Cys
          85          90          95
Ala Arg Thr Tyr Gly Gly Thr Asn Tyr Phe Asp Tyr Trp Gly Gln Gly
          100          105          110
Thr Thr Leu Thr Val Ser Ser
          115
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<210> 149

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#3 VL

<400> 149

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Asp Ile Val Met Thr Gln Ser Gln Lys Leu Leu Ser Thr Ser Val Gly
1          5          10          15
Asp Arg Ile Ser Val Thr Cys Lys Ala Ser His Asn Val Gly Val Tyr
          20          25          30
Val Ala Trp Tyr Gln Gln Lys Pro Gly His Ser Pro Lys Ala Leu Ile
          35          40          45
His Ser Ala Ser Asn Arg Tyr Ser Gly Val Pro Asp Arg Phe Thr Gly
          50          55          60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Asn Val Gln Ser
65          70          75          80
Glu Asp Leu Ala Glu Tyr Phe Cys Gln Gln Tyr Asn Ser Tyr Pro Leu
          85          90          95
Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Ile
          100          105
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<210> 150  
 <211> 117  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#3 VH

<400> 150  
 Glu Val Lys Leu Val Glu Ser Glu Gly Gly Leu Val Gln Pro Gly Ser  
 1 5 10 15  
 Ser Met Lys Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Ser Asp Tyr  
 20 25 30  
 Tyr Met Thr Trp Val Arg Gln Val Pro Glu Lys Gly Leu Glu Trp Val  
 35 40 45  
 Gly Asn Ile Asp Tyr Asp Gly Ser Arg Ile Tyr Tyr Leu Asp Ser Leu  
 50 55 60  
 Lys Ser Arg Phe Ile Ile Ser Arg Asp Asn Ala Lys Asn Ile Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Lys Ser Glu Asp Thr Ala Thr Tyr Tyr Cys  
 85 90 95  
 Ala Arg Asp Asp Pro Ala Trp Leu Ala Tyr Trp Gly Gln Gly Thr Leu  
 100 105 110  
 Val Thr Val Ser Ser  
 115

<210> 151  
 <211> 107  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#4 VL

<400> 151  
 Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Ser Val Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr  
 20 25 30  
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Ala Leu Ile  
 35 40 45  
 Tyr Ser Ala Ser Asn Arg Tyr Asp Gly Val Pro Asp Arg Phe Thr Gly  
 50 55 60  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Asn Val Gln Ser  
 65 70 75 80  
 Glu Asp Leu Thr Glu Tyr Phe Cys Gln Gln Tyr Ile Ser Tyr Pro Leu  
 85 90 95  
 Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys

100

105

&lt;210&gt; 152

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; B7H6#4 VH

&lt;400&gt; 152

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

&lt;210&gt; 153

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; B7H6#5 VL

&lt;400&gt; 153

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

|     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|
|     | 85  |     | 90  |     | 95  |
| Thr | Phe | Gly | Gly | Gly | Thr |
|     |     |     | Lys | Val | Glu |
|     |     |     | Ile |     | Lys |
|     | 100 |     | 105 |     |     |

<210> 154  
 <211> 119  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#5 VH

<400> 154  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr  
 20 25 30  
 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45  
 Gly Trp Ile Asn Pro His Ser Gly Ala Thr Asn Tyr Ala Gln Asn Phe  
 50 55 60  
 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr  
 65 70 75 80  
 Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Ala Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Glu Arg Trp Gly Ser Gly Thr Phe Asn Ile Trp Gly Gln Gly  
 100 105 110  
 Thr Met Val Thr Val Ser Ser  
 115

<210> 155  
 <211> 107  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#6 VL

<400> 155  
 Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Pro Val Ser Ala Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Ser Asn Asp  
 20 25 30  
 Val Val Trp Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Met  
 35 40 45  
 Tyr Ser Thr Ser Asn Arg Tyr Ile Gly Val Pro Asp Arg Phe Thr Gly  
 50 55 60  
 Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Thr Val Gln Ala

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65  |     | 70  |     | 75  |     | 80  |     |     |     |     |     |     |     |     |     |
| Glu | Asp | Leu | Ala | Val | Tyr | Phe | Cys | Gln | Gln | Asp | Tyr | Ser | Ser | Pro | Tyr |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Thr | Phe | Gly | Gly | Gly | Thr | Lys | Leu | Glu | Ile | Lys |     |     |     |     |     |
|     |     |     |     | 100 |     |     |     |     | 105 |     |     |     |     |     |     |

<210> 156

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#6 VH

<400> 156

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Gln | Leu | Gln | Gln | Ser | Gly | Pro | Glu | Leu | Leu | Lys | Pro | Gly | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ser | Val | Lys | Ile | Ser | Cys | Lys | Thr | Ser | Gly | Tyr | Thr | Phe | Thr | Asp | Tyr |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Thr | Met | His | Trp | Val | Lys | Gln | Ser | His | Gly | Lys | Ser | Leu | Glu | Trp | Ile |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gly | Gly | Ile | Asn | Pro | Asn | Tyr | Asp | Asn | Thr | Gly | Tyr | Ser | Glu | Lys | Phe |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Lys | Asp | Lys | Ala | Thr | Leu | Thr | Val | Asp | Lys | Ser | Ser | Ser | Thr | Ala | Tyr |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Met | Glu | Leu | Arg | Ser | Leu | Thr | Ser | Glu | Asp | Ser | Ala | Val | Tyr | Tyr | Cys |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Thr | Arg | Ser | Gly | Ser | Arg | Arg | Ser | Phe | Tyr | Phe | Asp | Tyr | Trp | Gly | Gln |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gly | Thr | Thr | Leu | Thr | Val | Ser | Ser |     |     |     |     |     |     |     |     |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     |     |     |     |     |

<210> 157

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#7 VL

<400> 157

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| 50  |     | 55  |     | 60  |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr | Ile | Ser | Ser | Leu | Gln | Pro |  |  |  |  |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |  |  |  |  |
| Glu | Asp | Phe | Ala | Thr | Tyr | Tyr | Cys | Gln | Gln | Ala | Asn | Ser | Phe | Pro | Arg |  |  |  |  |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |  |  |  |  |
| Thr | Phe | Gly | Gln | Gly | Thr | Lys | Val | Glu | Ile | Lys |     |     |     |     |     |  |  |  |  |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     |     |     |     |  |  |  |  |

<210> 158  
 <211> 117  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#7 VH

|           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| <400> 158 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| Gln       | Val | Gln | Leu | Gln | Glu | Ser | Gly | Pro | Gly | Leu | Val | Lys | Pro | Ser | Glu |  |  |  |  |
| 1         |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |  |  |  |  |
| Thr       | Leu | Ser | Leu | Thr | Tyr | Thr | Val | Ser | Gly | Gly | Ser | Ile | Ser | Tyr | Asn |  |  |  |  |
|           |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |  |  |  |
| Tyr       | Trp | Ser | Trp | Ile | Arg | Gln | Pro | Pro | Glu | Lys | Gly | Leu | Glu | Trp | Ile |  |  |  |  |
|           |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |  |  |  |  |
| Gly       | His | Ile | Tyr | Tyr | Ser | Gly | Ser | Thr | Asn | Tyr | Asn | Pro | Ser | Leu | Lys |  |  |  |  |
|           | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |  |  |  |  |
| Ser       | Arg | Val | Thr | Ile | Ser | Val | Asp | Thr | Ser | Lys | Asn | Gln | Phe | Ser | Leu |  |  |  |  |
| 65        |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     |     | 80  |  |  |  |  |
| Lys       | Leu | Asn | Ser | Val | Thr | Ala | Ala | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Ala |  |  |  |  |
|           |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |  |  |  |  |
| Arg       | Val | Gly | Thr | Trp | Gly | Ser | Phe | Asp | Asp | Trp | Gly | Gln | Gly | Thr | Leu |  |  |  |  |
|           |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |  |  |  |
| Val       | Thr | Val | Ser | Ser |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
|           |     |     | 115 |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |

<210> 159  
 <211> 112  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#8 VL

|           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| <400> 159 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| Asp       | Ile | Val | Met | Thr | Gln | Ser | Pro | Leu | Ser | Leu | Pro | Val | Thr | Pro | Gly |  |  |  |  |
| 1         |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |     |  |  |  |  |
| Glu       | Pro | Ala | Ser | Ile | Ser | Cys | Arg | Ser | Ser | Gln | Ser | Leu | Leu | Tyr | Asn |  |  |  |  |
|           |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |  |  |  |
| Asn       | Arg | Tyr | Asn | Tyr | Leu | Asp | Trp | Tyr | Leu | Gln | Lys | Pro | Gly | Gln | Ser |  |  |  |  |

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

<210> 160  
 <211> 127  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#8 VH

|                                                                 |
|-----------------------------------------------------------------|
| <400> 160                                                       |
| Gln Val Gln Val Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser |
| 1 5 10 15                                                       |
| Ser Val Lys Val Ser Cys Lys Gly Ser Gly Asp Thr Leu Asn Ser Tyr |
| 20 25 30                                                        |
| Gly Ile Ser Trp Met Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met |
| 35 40 45                                                        |
| Gly Gly Ile Ile Pro Ile Phe Asp Thr Thr Lys Tyr Ala Gln Lys Phe |
| 50 55 60                                                        |
| Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Thr Thr Val Tyr |
| 65 70 75 80                                                     |
| Met Glu Leu Ser Ser Leu Arg Phe Glu Asp Thr Ala Val Tyr Tyr Cys |
| 85 90 95                                                        |
| Ala Arg Glu Arg Gly Tyr Arg Phe Ser Glu Asp Tyr Tyr Phe Tyr Tyr |
| 100 105 110                                                     |
| Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser     |
| 115 120 125                                                     |

<210> 161  
 <211> 111  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#9 VL

|                                                                 |
|-----------------------------------------------------------------|
| <400> 161                                                       |
| Asp Ile Val Leu Thr Gln Ser Pro Val Ser Leu Ala Val Ser Leu Gly |

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

<210> 162

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#9 VH

<400> 162

|                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|
| Gln Val Gln Leu | Gln Gln Pro Gly | Ala Glu Met Val | Arg Pro Gly Ser |
| 1               | 5               | 10              | 15              |
| Ser Val Lys Leu | Ser Cys Lys Ala | Ser Asp Tyr Thr | Phe Thr His Tyr |
| 20              | 25              | 30              |                 |
| Trp Ile His Trp | Val Lys Gln Arg | Pro Leu Glu Gly | Leu Glu Trp Ile |
| 35              | 40              | 45              |                 |
| Gly Ile Ile Gly | Pro Ser Asp Asn | Glu Ile His Tyr | Asn Gln Asp Phe |
| 50              | 55              | 60              |                 |
| Lys Asp Lys Ala | Thr Leu Thr Val | Asp Lys Ser Ser | Asn Thr Ala Tyr |
| 65              | 70              | 75              | 80              |
| Leu His Leu Asn | Ser Leu Thr Ser | Glu Asp Ser Ala | Val Tyr Tyr Cys |
| 85              | 90              | 95              |                 |
| Ala Arg Gln Ile | Ile Ser Met Val | Val Gly Thr Glu | Tyr Phe Asp Val |
| 100             | 105             | 110             |                 |
| Trp Gly Thr Gly | Thr Thr Val Thr | Val Ser Ser     |                 |
| 115             | 120             |                 |                 |

<210> 163

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#10 VL

<400> 163

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

<210> 164

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#10 VH

<400> 164

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

<210> 165

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#11 VL

<400> 165

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

<210> 166

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#11 VH

<400> 166

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Leu | Gln | Leu | Val | Asn | Ser | Gly | Gly | Gly | Leu | Val | Lys | Ser | Gly | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ser | Leu | Arg | Leu | Ser | Cys | Ala | Ala | Ser | Gly | Ile | Thr | Phe | Ser | Tyr | Tyr |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Thr | Met | Asn | Trp | Val | Arg | Gln | Ala | Pro | Gly | Lys | Gly | Leu | Glu | Trp | Val |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ser | Ser | Ile | Ser | Ser | Arg | Ser | Ser | Tyr | Ile | Tyr | Tyr | Ala | Asp | Ser | Val |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Lys | Gly | Arg | Phe | Thr | Ile | Ser | Arg | Asp | Asn | Ala | Glu | 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 | Lys | Gly | Asp | Tyr | Ser | Lys | Asp | Ile | Tyr | Tyr | Tyr | Tyr | Gly |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     |     | 110 |     |
| Met | Asp | Val | Trp | Gly | Gln | Gly | Thr | Thr | Val | Thr | Val | Ser | Ser |     |     |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |

<210> 167

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#12 VL

<400> 167

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

<210> 168

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#12 VH

<400> 168

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

<210> 169

<211> 107  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> B7H6#13 VL

<400> 169  
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
1 5 10 15  
Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr  
20 25 30  
Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile  
35 40 45  
Tyr Ser Ala Ser Asn Arg Tyr Asp Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60  
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
65 70 75 80  
Glu Asp Phe Thr Thr Tyr Tyr Cys Gln Gln Tyr Ile Ser Tyr Pro Leu  
85 90 95  
Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 170  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> B7H6#13 VH

<400> 170  
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15  
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20 25 30  
Trp Met Asn Trp Met Lys Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45  
Gly Gly Ile Tyr Leu Asn Gly Asp Ser Thr Asp Tyr Asn Glu Lys Phe  
50 55 60  
Lys Gly Arg Val Thr Met Thr Val Asp Thr Ser Thr Ser Thr Val Tyr  
65 70 75 80  
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95  
Thr Arg Arg Gly Asp Tyr Phe Gly Asp Phe Trp Gly Gln Gly Thr Leu  
100 105 110  
Val Thr Val Ser Ser  
115

<210> 171  
 <211> 107  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#14 VL

<400> 171  
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr  
 20 25 30  
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile  
 35 40 45  
 Tyr Ser Ala Ser Asn Arg Tyr Asp Gly Val Pro Ser Arg Phe Ser Gly  
 50 55 60  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 65 70 75 80  
 Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Tyr Ile Ser Tyr Pro Leu  
 85 90 95  
 Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys  
 100 105

<210> 172  
 <211> 117  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#14 VH

<400> 172  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
 20 25 30  
 Trp Met Asn Trp Met Lys Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile  
 35 40 45  
 Gly Gly Ile Tyr Leu Asn Gly Asp Ser Thr Asp Tyr Asn Glu Lys Phe  
 50 55 60  
 Lys Gly Lys Val Thr Met Thr Val Asp Thr Ser Thr Ser Thr Val Tyr  
 65 70 75 80  
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Thr Arg Arg Gly Asp Tyr Phe Gly Asp Phe Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser

115

<210> 173

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#15 VL

<400> 173

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

<210> 174

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#15 VH

<400> 174

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

Thr Arg Arg Gly Asp Tyr Phe Gly Asp Phe Trp Gly Gln Gly Thr Leu  
100 105 110  
Val Thr Val Ser Ser  
115

<210> 175  
<211> 107  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> B7H6#16 VL

<400> 175  
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
1 5 10 15  
Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr  
20 25 30  
Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile  
35 40 45  
Tyr Ser Ala Ser Asn Arg Tyr Asp Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60  
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
65 70 75 80  
Glu Asp Phe Thr Thr Tyr Tyr Cys Gln Gln Tyr Ile Ser Tyr Pro Leu  
85 90 95  
Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 176  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> B7H6#16 VH

<400> 176  
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15  
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20 25 30  
Trp Met Asn Trp Met Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45  
Gly Gly Ile Tyr Leu Ser Gly Glu Ser Thr Asp Tyr Asn Glu Lys Phe  
50 55 60  
Lys Gly Arg Val Thr Met Thr Val Asp Thr Ser Thr Ser Thr Val Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95  
Thr Arg Arg Gly Asp Tyr Phe Gly Asp Phe Trp Gly Gln Gly Thr Leu  
100 105 110  
Val Thr Val Ser Ser  
115

<210> 177  
<211> 107  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> B7H6#17 VL

<400> 177  
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
1 5 10 15  
Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr  
20 25 30  
Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile  
35 40 45  
Tyr Ser Ala Ser Asn Arg Tyr Asp Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60  
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
65 70 75 80  
Glu Asp Phe Thr Thr Tyr Tyr Cys Gln Gln Tyr Ile Ser Tyr Pro Leu  
85 90 95  
Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 178  
<211> 117  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> B7H6#17 VH

<400> 178  
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15  
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20 25 30  
Trp Met Asn Trp Met Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45  
Gly Gly Ile Tyr Leu Ser Gly Asp Ser Thr Asp Tyr Asn Glu Lys Phe  
50 55 60

Lys Gly Arg Val Thr Met Thr Val Asp Thr Ser Thr Ser Thr Val Tyr  
 65 70 75 80  
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Thr Arg Arg Gly Asp Tyr Phe Gly Asp Phe Trp Gly Gln Gly Thr Leu  
 100 105 110  
 Val Thr Val Ser Ser  
 115

<210> 179

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#18 VL

<400> 179

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

<210> 180

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#18 VH

<400> 180

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

Gly Gly Ile Tyr Leu Ser Gly Asp Ser Thr Asp Tyr Asn Glu Lys Phe  
 50 55 60  
 Lys Gly Arg Val Thr Met Thr Val Asp Thr Ser Thr Ser Thr Val Tyr  
 65 70 75 80  
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Thr Arg Arg Gly Asp Tyr Phe Gly Asp Phe Trp Gly Gln Gly Thr Leu  
 100 105 110  
 Val Thr Val Ser Ser  
 115

<210> 181  
 <211> 107  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#19 VL

<400> 181  
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr  
 20 25 30  
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile  
 35 40 45  
 Tyr Ser Ala Ser Asn Arg Tyr Asp Gly Val Pro Ser Arg Phe Ser Gly  
 50 55 60  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 65 70 75 80  
 Glu Asp Phe Thr Thr Tyr Tyr Cys Gln Gln Tyr Ile Ser Tyr Pro Leu  
 85 90 95  
 Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys  
 100 105

<210> 182  
 <211> 117  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#19 VH

<400> 182  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

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

<210> 183  
 <211> 107  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#20 VL

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

<210> 184  
 <211> 117  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#20 VH

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

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

<210> 185  
 <211> 107  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#21 VL

<400> 185  
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr  
 20 25 30  
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile  
 35 40 45  
 Tyr Ser Ala Ser Asn Arg Tyr Asp Gly Val Pro Ser Arg Phe Ser Gly  
 50 55 60  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 65 70 75 80  
 Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Tyr Ile Ser Tyr Pro Leu  
 85 90 95  
 Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys  
 100 105

<210> 186  
 <211> 117  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#21 VH

<400> 186

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

<210> 187  
 <211> 107  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#22 VL

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

<210> 188  
 <211> 117  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#22 VH

<400> 188

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

<210> 189

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#23 VL

<400> 189

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

<210> 190

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#23 VH

<400> 190

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

<210> 191

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#24 VL

<400> 191

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

<210> 192

<211> 117

<212> PRT

<213> Artificial Sequence

<223> B7H6#24 VH

[illegible]

<211> 480

<212> PRT

### <213> Artificial Sequence

<223> B7H6#1 scFab

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Val | Met | Ser | Gln | Ser | Pro | Ser | Ser | Leu | Ala | Val | Ser | Val | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Glu | Lys | Val | Thr | Met | Asn | Cys | Lys | Ser | Ser | Gln | Ser | Leu | Phe | Tyr | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ser | Asn | Gln | Lys | Asn | Tyr | Leu | Ala | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Gln |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ser | Pro | Lys | Leu | Leu | Ile | Tyr | Trp | Ala | Ser | Thr | Arg | Glu | Ser | Gly | Val |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Pro | Asp | Arg | Phe | Thr | Gly | Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Ile | Ser | Ser | Val | Lys | Ala | Glu | Asp | Leu | Ala | Val | Tyr | Tyr | Cys | Gln | Gln |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Tyr | Tyr | Asn | Tyr | Pro | Arg | Thr | Phe | Gly | Gly | Gly | Thr | Lys | Leu | Glu | Ile |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Lys | Arg | Thr | Val | Ala | Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Glu | Gln | Leu | Lys | Ser | Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn |

|                                                                 |     |     |     |     |     |
|-----------------------------------------------------------------|-----|-----|-----|-----|-----|
| 130                                                             |     | 135 |     | 140 |     |
| Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu |     |     |     |     |     |
| 145                                                             |     | 150 |     | 155 | 160 |
| Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp |     |     |     |     |     |
|                                                                 | 165 |     | 170 |     | 175 |
| Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr |     |     |     |     |     |
|                                                                 | 180 |     | 185 |     | 190 |
| Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser |     |     |     |     |     |
|                                                                 | 195 |     | 200 |     | 205 |
| Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys Gly Gly Gly Gly |     |     |     |     |     |
|                                                                 | 210 |     | 215 |     | 220 |
| Ser Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu |     |     |     |     |     |
| 225                                                             |     | 230 |     | 235 | 240 |
| Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser Thr Gly Gly Gly |     |     |     |     |     |
|                                                                 | 245 |     | 250 |     | 255 |
| Gly Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro |     |     |     |     |     |
|                                                                 | 260 |     | 265 |     | 270 |
| Gly Thr Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr |     |     |     |     |     |
|                                                                 | 275 |     | 280 |     | 285 |
| Asp Tyr Tyr Met Asn Trp Val Lys Gln Ser Gln Gly Lys Asn Leu Glu |     |     |     |     |     |
|                                                                 | 290 |     | 295 |     | 300 |
| Trp Ile Ala Tyr Ile Tyr Pro Lys Thr Gly Gly Asn Gly Tyr Asn Gln |     |     |     |     |     |
| 305                                                             |     | 310 |     | 315 | 320 |
| Lys Phe Lys Asp Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Asn Thr |     |     |     |     |     |
|                                                                 | 325 |     | 330 |     | 335 |
| Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr |     |     |     |     |     |
|                                                                 | 340 |     | 345 |     | 350 |
| Tyr Cys Gly Arg Glu Asn Trp Asp Gly Tyr Thr Met Ala Tyr Trp Gly |     |     |     |     |     |
|                                                                 | 355 |     | 360 |     | 365 |
| Gln Gly Thr Ser Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser |     |     |     |     |     |
|                                                                 | 370 |     | 375 |     | 380 |
| Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala |     |     |     |     |     |
| 385                                                             |     | 390 |     | 395 | 400 |
| Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val |     |     |     |     |     |
|                                                                 | 405 |     | 410 |     | 415 |
| Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala |     |     |     |     |     |
|                                                                 | 420 |     | 425 |     | 430 |
| Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val |     |     |     |     |     |
|                                                                 | 435 |     | 440 |     | 445 |
| Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His |     |     |     |     |     |
|                                                                 | 450 |     | 455 |     | 460 |
| Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys |     |     |     |     |     |
| 465                                                             |     | 470 |     | 475 | 480 |

<210> 194

<211> 475

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#2 scFab

<400> 194

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| Glu | Ile | Val | Leu | Thr | Gln | Ser | Pro | Asp | Phe | Leu | Ser | Ala | Ser | Pro | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Glu | Lys | Val | Thr | Met | Thr | Cys | Arg | Ala | Thr | Ser | Ser | Leu | Tyr | Ser | Met |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| His | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Ser | Ser | Pro | Lys | Pro | Trp | Ile | Tyr |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ala | Thr | Phe | Asn | Leu | Ala | Ser | Gly | Val | Pro | Ala | Arg | Phe | Ser | Gly | Ser |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Gly | Ser | Gly | Thr | Ser | Tyr | Ser | Leu | Thr | Ile | Thr | Arg | Val | Glu | Ala | Glu |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Asp | Ala | Ala | Thr | Tyr | Tyr | Cys | Gln | Gln | Trp | Ser | Thr | Asn | Pro | Pro | Lys |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Leu | Thr | Phe | Gly | Ala | Gly | Thr | Lys | Leu | Glu | Leu | Lys | Arg | Thr | Val | Ala |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser |
|     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |     |
| Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu |
|     | 130 |     |     |     |     | 135 |     |     |     | 140 |     |     |     |     |     |
| Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser |
| 145 |     |     |     |     | 150 |     |     |     | 155 |     |     |     |     | 160 |     |
| Gln | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Ser | Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Tyr | Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Ser | Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly |
| 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |     |
| Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Glu | Val | Gln |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |     |
| Leu | Gln | Gln | Ser | Gly | Ala | Glu | Leu | Val | Arg | Pro | Gly | Ala | Ser | Val | Lys |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |     |
| Leu | Ser | Cys | Thr | Ala | Ser | Gly | Phe | Asn | Ile | Lys | Asn | Thr | Phe | Ile | His |
|     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |     |
| Trp | Val | Asn | Gln | Arg | Pro | Glu | Gln | Gly | Leu | Glu | Trp | Ile | Gly | Arg | Ile |
|     | 290 |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |     |
| Asp | Pro | Ala | Asn | Gly | Asn | Thr | Ile | Tyr | Ala | Ser | Lys | Phe | Gln | Gly | Arg |
| 305 |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |     |
| Ala | Thr | Ile | Thr | Thr | Asp | Thr | Ser | Ser | Asn | Thr | Ala | Tyr | Met | His | Leu |
|     |     |     | 325 |     |     |     |     | 330 |     |     |     | 335 |     |     |     |
| Ser | Ser | Leu | Thr | Ser | Gly | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Ala | Arg | Thr |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     |     | 350 |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Gly | Gly | Thr | Asn | Tyr | Phe | Asp | Tyr | Trp | Gly | Gln | Gly | Thr | Thr | Leu |
|     | 355 |     |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala |
|     | 370 |     |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |
| Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu |
|     | 385 |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser |
|     |     | 420 |     |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Gly | Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu |
|     | 435 |     |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Gly | Thr | Gln | Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Lys | Val | Asp | Lys | Arg | Val | Glu | Pro | Lys | Ser | Cys |     |     |     |     |     |
|     | 465 |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     |     |

<210> 195

<211> 472

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#3 scFab

<400> 195

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Val | Met | Thr | Gln | Ser | Gln | Lys | Leu | Leu | Ser | Thr | Ser | Val | Gly |
| 1   |     |     | 5   |     |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Asp | Arg | Ile | Ser | Val | Thr | Cys | Lys | Ala | Ser | His | Asn | Val | Gly | Val | Tyr |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |     |
| Val | Ala | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | His | Ser | Pro | Lys | Ala | Leu | Ile |
|     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| His | Ser | Ala | Ser | Asn | Arg | Tyr | Ser | Gly | Val | Pro | Asp | Arg | Phe | Thr | Gly |
|     | 50  |     |     | 55  |     |     |     | 60  |     |     |     |     |     |     |     |
| Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr | Ile | Thr | Asn | Val | Gln | Ser |
| 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |     |
| Glu | Asp | Leu | Ala | Glu | Tyr | Phe | Cys | Gln | Gln | Tyr | Asn | Ser | Tyr | Pro | Leu |
|     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Thr | Phe | Gly | Ala | Gly | Thr | Lys | Leu | Glu | Leu | Ile | Arg | Thr | Val | Ala | Ala |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly |
|     | 115 |     |     |     | 120 |     |     |     |     |     |     | 125 |     |     |     |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala |
|     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |     |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln |
| 145 |     |     |     | 150 |     |     |     | 155 |     |     |     |     |     | 160 |     |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr |



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Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr  
420 425 430  
Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln  
435 440 445  
Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp  
450 455 460  
Lys Arg Val Glu Pro Lys Ser Cys  
465 470

<210> 197

<211> 474

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#5 scFab

<400> 197

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Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Arg Asn Asp  
20 25 30  
Leu Gly Trp Phe Gln Gln Arg Pro Gly Lys Ala Pro Asn Leu Leu Ile  
35 40 45  
Tyr Ala Ala Ser Ser Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60  
Arg Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
65 70 75 80  
Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Tyr Asn His Pro Leu  
85 90 95  
Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala  
100 105 110  
Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly  
115 120 125  
Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala  
130 135 140  
Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln  
145 150 155 160  
Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser  
165 170 175  
Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr  
180 185 190  
Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser  
195 200 205  
Phe Asn Arg Gly Glu Cys Gly Gly Gly Gly Ser Glu Gly Lys Ser Ser  
210 215 220  
Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu Gly Lys Ser Ser Gly Ser  
225 230 235 240  
Gly Ser Glu Ser Lys Ser Thr Gly Gly Gly Gly Ser Gln Val Gln Leu

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

<210> 198

<211> 475

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#6 scFab

<400> 198

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Glu | Asp | Leu | Ala | Val | Tyr | Phe | Cys | Gln | Gln | Asp | Tyr | Ser | Ser | Pro | Tyr |  |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |  |
| Thr | Phe | Gly | Gly | Gly | Thr | Lys | Leu | Glu | Ile | Lys | Arg | Thr | Val | Ala | Ala |  |
|     |     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |  |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly |  |
|     |     |     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |  |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala |  |
|     |     |     |     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |  |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln |  |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser |  |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr |  |
|     |     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |  |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser |  |
|     |     |     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |  |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser |  |
|     |     |     |     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |  |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Glu | Val | Gln | Leu |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |
| Gln | Gln | Ser | Gly | Pro | Glu | Leu | Leu | Lys | Pro | Gly | Ala | Ser | Val | Lys | Ile |  |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |  |
| Ser | Cys | Lys | Thr | Ser | Gly | Tyr | Thr | Phe | Thr | Asp | Tyr | Thr | Met | His | Trp |  |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |  |
| Val | Lys | Gln | Ser | His | Gly | Lys | Ser | Leu | Glu | Trp | Ile | Gly | Gly | Ile | Asn |  |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |  |
| Pro | Asn | Tyr | Asp | Asn | Thr | Gly | Tyr | Ser | Glu | Lys | Phe | Lys | Asp | Lys | Ala |  |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |
| Thr | Leu | Thr | Val | Asp | Lys | Ser | Ser | Ser | Thr | Ala | Tyr | Met | Glu | Leu | Arg |  |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |  |
| Ser | Leu | Thr | Ser | Glu | Asp | Ser | Ala | Val | Tyr | Tyr | Cys | Thr | Arg | Ser | Gly |  |
|     |     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |  |
| Ser | Arg | Arg | Ser | Phe | Tyr | Phe | Asp | Tyr | Trp | Gly | Gln | Gly | Thr | Thr | Leu |  |
|     |     |     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |  |
| Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala |  |
|     |     |     |     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |  |
| Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu |  |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |  |
| Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly |  |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |  |
| Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser |  |
|     |     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |  |
| Gly | Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu |  |
|     |     |     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |  |
| Gly | Thr | Gln | Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr |  |
|     |     |     |     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |  |
| Lys | Val | Asp | Lys | Arg | Val | Glu | Pro | Lys | Ser | Cys |     |     |     |     |     |  |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     |     |  |

<210> 199  
 <211> 472  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#7 scFab

<400> 199  
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp  
 20 25 30  
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asn Leu Leu Ile  
 35 40 45  
 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly  
 50 55 60  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 65 70 75 80  
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Phe Pro Arg  
 85 90 95  
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala  
 100 105 110  
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly  
 115 120 125  
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala  
 130 135 140  
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln  
 145 150 155 160  
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser  
 165 170 175  
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr  
 180 185 190  
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser  
 195 200 205  
 Phe Asn Arg Gly Glu Cys Gly Gly Gly Ser Glu Gly Lys Ser Ser  
 210 215 220  
 Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu Gly Lys Ser Ser Gly Ser  
 225 230 235 240  
 Gly Ser Glu Ser Lys Ser Thr Gly Gly Gly Gly Ser Gln Val Gln Leu  
 245 250 255  
 Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu Thr Leu Ser Leu  
 260 265 270  
 Thr Tyr Thr Val Ser Gly Gly Ser Ile Ser Tyr Asn Tyr Trp Ser Trp  
 275 280 285  
 Ile Arg Gln Pro Pro Glu Lys Gly Leu Glu Trp Ile Gly His Ile Tyr  
 290 295 300  
 Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys Ser Arg Val Thr

305                      310                      315                      320  
 Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu Lys Leu Asn Ser  
                                  325                      330                      335  
 Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg Val Gly Thr  
                                  340                      345                      350  
 Trp Gly Ser Phe Asp Asp Trp Gly Gln Gly Thr Leu Val Thr Val Ser  
                                  355                      360                      365  
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser  
                                  370                      375                      380  
 Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp  
 385                      390                      395                      400  
 Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr  
                                  405                      410                      415  
 Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr  
                                  420                      425                      430  
 Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln  
                                  435                      440                      445  
 Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp  
                                  450                      455                      460  
 Lys Arg Val Glu Pro Lys Ser Cys  
 465                      470

<210> 200

<211> 487

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#8 scFab

<400> 200

Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly  
 1                      5                      10                      15  
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Asn  
                                  20                      25                      30  
 Asn Arg Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser  
                                  35                      40                      45  
 Pro Glu Val Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro  
                                  50                      55                      60  
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile  
 65                      70                      75                      80  
 Ser Arg Val Glu Ala Glu Asp Phe Gly Val Tyr Tyr Cys Met Gln Thr  
                                  85                      90                      95  
 Leu Gln Ile Pro Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
                                  100                      105                      110  
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu  
                                  115                      120                      125  
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe  
                                  130                      135                      140

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Pro | Arg | Glu | Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln |
| 145 |     |     |     |     | 150 |     |     |     | 155 |     |     |     |     | 160 |     |
| Ser | Gly | Asn | Ser | Gln | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Thr | Tyr | Ser | Leu | Ser | Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Lys | His | Lys | Val | Tyr | Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Pro | Val | Thr | Lys | Ser | Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Glu | Gly | Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Ser | Gln | Val | Gln | Val | Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |
| Ser | Ser | Val | Lys | Val | Ser | Cys | Lys | Gly | Ser | Gly | Asp | Thr | Leu | Asn | Ser |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Tyr | Gly | Ile | Ser | Trp | Met | Arg | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Met | Gly | Gly | Ile | Ile | Pro | Ile | Phe | Asp | Thr | Thr | Lys | Tyr | Ala | Gln | Lys |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     | 320 |     |
| Phe | Gln | Gly | Arg | Val | Thr | Ile | Thr | Ala | Asp | Lys | Ser | Thr | Thr | Thr | Val |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Tyr | Met | Glu | Leu | Ser | Ser | Leu | Arg | Phe | Glu | Asp | Thr | Ala | Val | Tyr | Tyr |
|     |     | 340 |     |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Cys | Ala | Arg | Glu | Arg | Gly | Tyr | Arg | Phe | Ser | Glu | Asp | Tyr | Tyr | Phe | Tyr |
|     | 355 |     |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Tyr | Gly | Met | Asp | Val | Trp | Gly | Gln | Gly | Thr | Thr | Val | Thr | Val | Ser | Ser |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser | Lys |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     | 400 |     |
| Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp | Tyr |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr | Ser |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr | Ser |
|     | 435 |     |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln | Thr |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp | Lys |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     | 480 |     |
| Arg | Val | Glu | Pro | Lys | Ser | Cys |     |     |     |     |     |     |     |     |     |
|     |     |     |     |     | 485 |     |     |     |     |     |     |     |     |     |     |

<210> 201

<211> 482

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#9 scFab

<400> 201

Asp Ile Val Leu Thr Gln Ser Pro Val Ser Leu Ala Val Ser Leu Gly  
1 5 10 15  
Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Glu Ser Val Asp Asn Phe  
20 25 30  
Gly Val Ser Phe Met Asn Trp Phe Gln Gln Lys Pro Gly Gln Pro Pro  
35 40 45  
Lys Leu Leu Ile Tyr Ala Ala Ser Asn Gln Gly Ser Gly Val Pro Ala  
50 55 60  
Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Ser Leu Asn Ile His  
65 70 75 80  
Pro Leu Glu Glu Asp Asp Thr Ala Met Tyr Phe Cys Gln Gln Ser Lys  
85 90 95  
Glu Val Pro Trp Thr Phe Gly Gly Gly Thr Arg Leu Glu Ile Lys Arg  
100 105 110  
Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln  
115 120 125  
Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr  
130 135 140  
Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser  
145 150 155 160  
Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr  
165 170 175  
Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys  
180 185 190  
His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro  
195 200 205  
Val Thr Lys Ser Phe Asn Arg Gly Glu Cys Gly Gly Gly Gly Ser Glu  
210 215 220  
Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu Gly Lys  
225 230 235 240  
Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser Thr Gly Gly Gly Gly Ser  
245 250 255  
Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Met Val Arg Pro Gly Ser  
260 265 270  
Ser Val Lys Leu Ser Cys Lys Ala Ser Asp Tyr Thr Phe Thr His Tyr  
275 280 285  
Trp Ile His Trp Val Lys Gln Arg Pro Leu Glu Gly Leu Glu Trp Ile  
290 295 300  
Gly Ile Ile Gly Pro Ser Asp Asn Glu Ile His Tyr Asn Gln Asp Phe  
305 310 315 320  
Lys Asp Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Asn Thr Ala Tyr  
325 330 335  
Leu His Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys  
340 345 350  
Ala Arg Gln Ile Ile Ser Met Val Val Gly Thr Glu Tyr Phe Asp Val

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| 355                                                             | 360 | 365 |
| Trp Gly Thr Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly |     |     |
| 370                                                             | 375 | 380 |
| Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly |     |     |
| 385                                                             | 390 | 395 |
| Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val |     |     |
| 405                                                             | 410 | 415 |
| Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe |     |     |
| 420                                                             | 425 | 430 |
| Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val |     |     |
| 435                                                             | 440 | 445 |
| Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val |     |     |
| 450                                                             | 455 | 460 |
| Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys |     |     |
| 465                                                             | 470 | 475 |
| Ser Cys                                                         |     | 480 |

<210> 202

<211> 472

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#10 scFab

<400> 202

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly |     |     |
| 1                                                               | 5   | 10  |
| Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp |     |     |
| 20                                                              | 25  | 30  |
| Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile |     |     |
| 35                                                              | 40  | 45  |
| Tyr Val Ala Ser Ser Leu Gln Arg Gly Val Pro Ser Arg Phe Ser Gly |     |     |
| 50                                                              | 55  | 60  |
| Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asn Leu Gln Pro |     |     |
| 65                                                              | 70  | 75  |
| Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Phe Pro Arg |     |     |
| 85                                                              | 90  | 95  |
| Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala |     |     |
| 100                                                             | 105 | 110 |
| Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly |     |     |
| 115                                                             | 120 | 125 |
| Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala |     |     |
| 130                                                             | 135 | 140 |
| Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln |     |     |
| 145                                                             | 150 | 155 |
| Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser |     |     |



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Val | Met | Thr | Gln | Ser | Pro | Leu | Ser | Leu | Pro | Val | Thr | Pro | Gly | 1   | 5   | 10  | 15  |
| Glu | Pro | Ala | Ser | Ile | Ser | Cys | Arg | Ser | Ser | Gln | Ser | Leu | Leu | His | Ser | 20  | 25  | 30  |     |
| Asn | Gly | Tyr | Asn | Tyr | Leu | Asp | Trp | Tyr | Leu | Gln | Lys | Pro | Gly | Gln | Ser | 35  | 40  | 45  |     |
| Pro | Gln | Val | Leu | Ile | Tyr | Leu | Gly | Ser | Asn | Arg | Ala | Ser | Gly | Val | Pro | 50  | 55  | 60  |     |
| Asp | Arg | Phe | Ser | Gly | Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Lys | Ile | 65  | 70  | 75  | 80  |
| Ser | Arg | Val | Glu | Ala | Glu | Asp | Val | Gly | Val | Tyr | Tyr | Cys | Met | Gln | Ala | 85  | 90  | 95  |     |
| Leu | Gln | Thr | Pro | Leu | Thr | Phe | Gly | Gly | Gly | Thr | Lys | Val | Glu | Ile | Lys | 100 | 105 | 110 |     |
| Arg | Thr | Val | Ala | Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | 115 | 120 | 125 |     |
| Gln | Leu | Lys | Ser | Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | 130 | 135 | 140 |     |
| Tyr | Pro | Arg | Glu | Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | 145 | 150 | 155 | 160 |
| Ser | Gly | Asn | Ser | Gln | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | 165 | 170 | 175 |     |
| Thr | Tyr | Ser | Leu | Ser | Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | 180 | 185 | 190 |     |
| Lys | His | Lys | Val | Tyr | Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | 195 | 200 | 205 |     |
| Pro | Val | Thr | Lys | Ser | Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | 210 | 215 | 220 |     |
| Glu | Gly | Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | 225 | 230 | 235 | 240 |
| Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | 245 | 250 | 255 |     |
| Ser | Glu | Leu | Gln | Leu | Val | Asn | Ser | Gly | Gly | Gly | Leu | Val | Lys | Ser | Gly | 260 | 265 | 270 |     |
| Gly | Ser | Leu | Arg | Leu | Ser | Cys | Ala | Ala | Ser | Gly | Ile | Thr | Phe | Ser | Tyr | 275 | 280 | 285 |     |
| Tyr | Thr | Met | Asn | Trp | Val | Arg | Gln | Ala | Pro | Gly | Lys | Gly | Leu | Glu | Trp | 290 | 295 | 300 |     |
| Val | Ser | Ser | Ile | Ser | Ser | Arg | Ser | Ser | Tyr | Ile | Tyr | Tyr | Ala | Asp | Ser | 305 | 310 | 315 | 320 |
| Val | Lys | Gly | Arg | Phe | Thr | Ile | Ser | Arg | Asp | Asn | Ala | Glu | Asn | Ser | Leu | 325 | 330 | 335 |     |
| Tyr | Leu | Gln | Met | Asn | Ser | Leu | Arg | Ala | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | 340 | 345 | 350 |     |
| Cys | Ala | Arg | Asp | Lys | Gly | Asp | Tyr | Ser | Lys | Asp | Ile | Tyr | Tyr | Tyr | Tyr | 355 | 360 | 365 |     |
| Gly | Met | Asp | Val | Trp | Gly | Gln | Gly | Thr | Thr | Val | Thr | Val | Ser | Ser | Ala | 370 | 375 | 380 |     |
| Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser | Lys | Ser | 385 | 390 | 395 | 400 |

Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe  
 405 410 415  
 Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly  
 420 425 430  
 Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu  
 435 440 445  
 Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr  
 450 455 460  
 Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg  
 465 470 475 480  
 Val Glu Pro Lys Ser Cys  
 485

<210> 204  
 <211> 472  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#12 scFab

<400> 204  
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr  
 20 25 30  
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile  
 35 40 45  
 Tyr Ser Ala Ser Asn Arg Tyr Asp Gly Val Pro Ser Arg Phe Ser Gly  
 50 55 60  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 65 70 75 80  
 Glu Asp Phe Thr Thr Tyr Tyr Cys Gln Gln Tyr Ile Ser Tyr Pro Leu  
 85 90 95  
 Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala  
 100 105 110  
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly  
 115 120 125  
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala  
 130 135 140  
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln  
 145 150 155 160  
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser  
 165 170 175  
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr  
 180 185 190  
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser  
 195 200 205  
 Phe Asn Arg Gly Glu Cys Gly Gly Gly Gly Ser Glu Gly Lys Ser Ser

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| 210                                                             | 215 | 220 |
| Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu Gly Lys Ser Ser Gly Ser |     |     |
| 225                                                             | 230 | 235 |
| Gly Ser Glu Ser Lys Ser Thr Gly Gly Gly Gly Ser Gln Val Gln Leu |     | 240 |
|                                                                 | 245 | 250 |
| Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val |     | 255 |
|                                                                 | 260 | 265 |
| Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr Trp Met Asn Trp |     | 270 |
|                                                                 | 275 | 280 |
| Val Lys Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly Ile Tyr |     | 285 |
|                                                                 | 290 | 295 |
| Leu Asn Gly Asp Ser Thr Asp Tyr Asn Glu Lys Phe Lys Gly Lys Ala |     | 300 |
| 305                                                             | 310 | 315 |
| Thr Met Thr Val Asp Thr Ser Thr Ser Thr Val Tyr Met Glu Leu Ser |     | 320 |
|                                                                 | 325 | 330 |
| Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Thr Arg Arg Gly |     | 335 |
|                                                                 | 340 | 345 |
| Asp Tyr Phe Gly Asp Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser |     | 350 |
|                                                                 | 355 | 360 |
| Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser |     | 365 |
|                                                                 | 370 | 375 |
| Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp |     | 380 |
| 385                                                             | 390 | 395 |
| Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr |     | 400 |
|                                                                 | 405 | 410 |
| Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr |     | 415 |
|                                                                 | 420 | 425 |
| Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln |     | 430 |
|                                                                 | 435 | 440 |
| Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp |     | 445 |
|                                                                 | 450 | 455 |
| Lys Arg Val Glu Pro Lys Ser Cys                                 |     | 460 |
| 465                                                             | 470 |     |

<210> 205

<211> 472

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#13 scFab

<400> 205

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ser | Ala | Ser | Asn | Arg | Tyr | Asp | Gly | Val | Pro | Ser | Arg | Phe | Ser | Gly | 50  | 55  | 60  |
| Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr | Ile | Ser | Ser | Leu | Gln | Pro | 65  | 70  | 75  |
| Glu | Asp | Phe | Thr | Thr | Tyr | Tyr | Cys | Gln | Gln | Tyr | Ile | Ser | Tyr | Pro | Leu | 85  | 90  | 95  |
| Thr | Phe | Gly | Ala | Gly | Thr | Lys | Leu | Glu | Ile | Lys | Arg | Thr | Val | Ala | Ala | 100 | 105 | 110 |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly | 115 | 120 | 125 |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala | 130 | 135 | 140 |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln | 145 | 150 | 155 |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser | 165 | 170 | 175 |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr | 180 | 185 | 190 |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser | 195 | 200 | 205 |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser | 210 | 215 | 220 |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser | 225 | 230 | 235 |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Gln | Val | Gln | Leu | 245 | 250 | 255 |
| Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | Ala | Ser | Val | Lys | Val | 260 | 265 | 270 |
| Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Ser | Tyr | Trp | Met | Asn | Trp | 275 | 280 | 285 |
| Met | Lys | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | Met | Gly | Gly | Ile | Tyr | 290 | 295 | 300 |
| Leu | Asn | Gly | Asp | Ser | Thr | Asp | Tyr | Asn | Glu | Lys | Phe | Lys | Gly | Arg | Val | 305 | 310 | 315 |
| Thr | Met | Thr | Val | Asp | Thr | Ser | Thr | Ser | Thr | Val | Tyr | Met | Glu | Leu | Ser | 325 | 330 | 335 |
| Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Thr | Arg | Arg | Gly | 340 | 345 | 350 |
| Asp | Tyr | Phe | Gly | Asp | Phe | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser | 355 | 360 | 365 |
| Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser | 370 | 375 | 380 |
| Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp | 385 | 390 | 395 |
| Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr | 405 | 410 | 415 |
| Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr | 420 | 425 | 430 |
| Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln | 435 | 440 | 445 |

Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp  
 450 455 460  
 Lys Arg Val Glu Pro Lys Ser Cys  
 465 470

<210> 206  
 <211> 472  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> B7H6#14 scFab

<400> 206  
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr  
 20 25 30  
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile  
 35 40 45  
 Tyr Ser Ala Ser Asn Arg Tyr Asp Gly Val Pro Ser Arg Phe Ser Gly  
 50 55 60  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 65 70 75 80  
 Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Tyr Ile Ser Tyr Pro Leu  
 85 90 95  
 Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala  
 100 105 110  
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly  
 115 120 125  
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala  
 130 135 140  
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln  
 145 150 155 160  
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser  
 165 170 175  
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr  
 180 185 190  
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser  
 195 200 205  
 Phe Asn Arg Gly Glu Cys Gly Gly Gly Ser Glu Gly Lys Ser Ser  
 210 215 220  
 Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu Gly Lys Ser Ser Gly Ser  
 225 230 235 240  
 Gly Ser Glu Ser Lys Ser Thr Gly Gly Gly Gly Ser Gln Val Gln Leu  
 245 250 255  
 Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val  
 260 265 270  
 Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr Trp Met Asn Trp

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| 275                                                             | 280 | 285 |
| Met Lys Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile Gly Gly Ile Tyr |     |     |
| 290                                                             | 295 | 300 |
| Leu Asn Gly Asp Ser Thr Asp Tyr Asn Glu Lys Phe Lys Gly Lys Val |     |     |
| 305                                                             | 310 | 315 |
| Thr Met Thr Val Asp Thr Ser Thr Ser Thr Val Tyr Met Glu Leu Ser |     |     |
| 325                                                             | 330 | 335 |
| Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Thr Arg Arg Gly |     |     |
| 340                                                             | 345 | 350 |
| Asp Tyr Phe Gly Asp Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser |     |     |
| 355                                                             | 360 | 365 |
| Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser |     |     |
| 370                                                             | 375 | 380 |
| Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp |     |     |
| 385                                                             | 390 | 395 |
| Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr |     |     |
| 405                                                             | 410 | 415 |
| Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr |     |     |
| 420                                                             | 425 | 430 |
| Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln |     |     |
| 435                                                             | 440 | 445 |
| Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp |     |     |
| 450                                                             | 455 | 460 |
| Lys Arg Val Glu Pro Lys Ser Cys                                 |     |     |
| 465                                                             | 470 |     |

<210> 207

<211> 472

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#15 scFab

<400> 207

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

|       |     |
|-------|-----|
| <210> | 208 |
| <211> | 472 |
| <212> | PRT |

<213> Artificial Sequence

<220>

<223> B7H6#16 scFab

<400> 208

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Gln | Met | Thr | Gln | Ser | Pro | Ser | Ser | Leu | Ser | Ala | Ser | Val | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Asp | Arg | Val | Thr | Ile | Thr | Cys | Lys | Ala | Ser | Gln | Asn | Val | Gly | Lys | Tyr |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Ala | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Lys | Ala | Pro | Lys | Ser | Leu | Ile |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Tyr | Ser | Ala | Ser | Asn | Arg | Tyr | Asp | Gly | Val | Pro | Ser | Arg | Phe | Ser | Gly |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr | Ile | Ser | Ser | Leu | Gln | Pro |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Glu | Asp | Phe | Thr | Thr | Tyr | Tyr | Cys | Gln | Gln | Tyr | Ile | Ser | Tyr | Pro | Leu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Thr | Phe | Gly | Ala | Gly | Thr | Lys | Leu | Glu | Ile | Lys | Arg | Thr | Val | Ala | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Gln | Val | Gln | Leu |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | Ala | Ser | Val | Lys | Val |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Ser | Tyr | Trp | Met | Asn | Trp |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |
| Met | Arg | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | Met | Gly | Gly | Ile | Tyr |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Leu | Ser | Gly | Glu | Ser | Thr | Asp | Tyr | Asn | Glu | Lys | Phe | Lys | Gly | Arg | Val |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     | 320 |     |
| Thr | Met | Thr | Val | Asp | Thr | Ser | Thr | Ser | Thr | Val | Tyr | Met | Glu | Leu | Ser |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Thr | Arg | Arg | Gly |

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| 340                                                             | 345 | 350 |
| Asp Tyr Phe Gly Asp Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser |     |     |
| 355                                                             | 360 | 365 |
| Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser |     |     |
| 370                                                             | 375 | 380 |
| Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp |     |     |
| 385                                                             | 390 | 395 |
| Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr |     |     |
| 405                                                             | 410 | 415 |
| Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr |     |     |
| 420                                                             | 425 | 430 |
| Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln |     |     |
| 435                                                             | 440 | 445 |
| Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp |     |     |
| 450                                                             | 455 | 460 |
| Lys Arg Val Glu Pro Lys Ser Cys                                 |     |     |
| 465                                                             | 470 |     |

<210> 209

<211> 472

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#17 scFab

<400> 209

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly |     |     |
| 1                                                               | 5   | 10  |
| Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr |     |     |
| 20                                                              | 25  | 30  |
| Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile |     |     |
| 35                                                              | 40  | 45  |
| Tyr Ser Ala Ser Asn Arg Tyr Asp Gly Val Pro Ser Arg Phe Ser Gly |     |     |
| 50                                                              | 55  | 60  |
| Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro |     |     |
| 65                                                              | 70  | 75  |
| Glu Asp Phe Thr Thr Tyr Tyr Cys Gln Gln Tyr Ile Ser Tyr Pro Leu |     |     |
| 85                                                              | 90  | 95  |
| Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala |     |     |
| 100                                                             | 105 | 110 |
| Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly |     |     |
| 115                                                             | 120 | 125 |
| Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala |     |     |
| 130                                                             | 135 | 140 |
| Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln |     |     |
| 145                                                             | 150 | 155 |
| Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser |     |     |
| 165                                                             | 170 | 175 |

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr  
 180 185 190  
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser  
 195 200 205  
 Phe Asn Arg Gly Glu Cys Gly Gly Gly Gly Ser Glu Gly Lys Ser Ser  
 210 215 220  
 Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu Gly Lys Ser Ser Gly Ser  
 225 230 235 240  
 Gly Ser Glu Ser Lys Ser Thr Gly Gly Gly Gly Ser Gln Val Gln Leu  
 245 250 255  
 Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val  
 260 265 270  
 Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr Trp Met Asn Trp  
 275 280 285  
 Met Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly Ile Tyr  
 290 295 300  
 Leu Ser Gly Asp Ser Thr Asp Tyr Asn Glu Lys Phe Lys Gly Arg Val  
 305 310 315 320  
 Thr Met Thr Val Asp Thr Ser Thr Ser Thr Val Tyr Met Glu Leu Ser  
 325 330 335  
 Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Thr Arg Arg Gly  
 340 345 350  
 Asp Tyr Phe Gly Asp Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser  
 355 360 365  
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser  
 370 375 380  
 Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp  
 385 390 395 400  
 Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr  
 405 410 415  
 Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr  
 420 425 430  
 Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln  
 435 440 445  
 Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp  
 450 455 460  
 Lys Arg Val Glu Pro Lys Ser Cys  
 465 470

<210> 210

<211> 472

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#18 scFab

<400> 210

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| 1   |     |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |  |  |  |  |
| Asp | Arg | Val | Thr | Ile | Thr | Cys | Lys | Ala | Ser | Gln | Asn | Val | Gly | Lys | Tyr |  |  |  |  |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |  |  |  |  |
| Val | Ala | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Lys | Ala | Pro | Lys | Ser | Leu | Ile |  |  |  |  |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |  |  |  |  |
| Tyr | Ser | Ala | Ser | Asn | Arg | Tyr | Asp | Ala | Val | Pro | Ser | Arg | Phe | Ser | Gly |  |  |  |  |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |  |  |  |  |
| Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr | Ile | Ser | Ser | Leu | Gln | Pro |  |  |  |  |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |  |  |  |  |
| Glu | Asp | Phe | Thr | Thr | Tyr | Tyr | Cys | Gln | Gln | Tyr | Ile | Ser | Tyr | Pro | Leu |  |  |  |  |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |  |  |  |  |
| Thr | Phe | Gly | Ala | Gly | Thr | Lys | Leu | Glu | Ile | Lys | Arg | Thr | Val | Ala | Ala |  |  |  |  |
|     |     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |  |  |  |  |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly |  |  |  |  |
|     |     |     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |  |  |  |  |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala |  |  |  |  |
|     |     |     |     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |  |  |  |  |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln |  |  |  |  |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |  |  |  |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser |  |  |  |  |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |  |  |  |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr |  |  |  |  |
|     |     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |  |  |  |  |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser |  |  |  |  |
|     |     |     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |  |  |  |  |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser |  |  |  |  |
|     |     |     |     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |  |  |  |  |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser |  |  |  |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |  |  |  |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Gln | Val | Gln | Leu |  |  |  |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |  |  |  |
| Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | Ala | Ser | Val | Lys | Val |  |  |  |  |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |  |  |  |  |
| Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Ser | Tyr | Trp | Met | Asn | Trp |  |  |  |  |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |  |  |  |  |
| Met | Arg | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | Met | Gly | Gly | Ile | Tyr |  |  |  |  |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |  |  |  |  |
| Leu | Ser | Gly | Asp | Ser | Thr | Asp | Tyr | Asn | Glu | Lys | Phe | Lys | Gly | Arg | Val |  |  |  |  |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |  |  |  |
| Thr | Met | Thr | Val | Asp | Thr | Ser | Thr | Ser | Thr | Val | Tyr | Met | Glu | Leu | Ser |  |  |  |  |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |  |  |  |  |
| Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Thr | Arg | Arg | Gly |  |  |  |  |
|     |     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |  |  |  |  |
| Asp | Tyr | Phe | Gly | Asp | Phe | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser |  |  |  |  |
|     |     |     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |  |  |  |  |
| Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser |  |  |  |  |
|     |     |     |     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |  |  |  |  |
| Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp |  |  |  |  |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |  |  |  |  |
| Tyr | Phe | Pro | Glu |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |

405                      410                      415  
 Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr  
                     420                      425                      430  
 Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln  
                     435                      440                      445  
 Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp  
                     450                      455                      460  
 Lys Arg Val Glu Pro Lys Ser Cys  
 465                      470

<210> 211

<211> 472

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#19 scFab

<400> 211

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 1                      5                      10                      15  
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr  
                     20                      25                      30  
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile  
                     35                      40                      45  
 Tyr Ser Ala Ser Asn Arg Tyr Asp Gly Val Pro Ser Arg Phe Ser Gly  
                     50                      55                      60  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 65                      70                      75                      80  
 Glu Asp Phe Thr Thr Tyr Tyr Cys Gln Gln Tyr Ile Ser Tyr Pro Leu  
                     85                      90                      95  
 Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala  
                     100                      105                      110  
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly  
                     115                      120                      125  
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala  
                     130                      135                      140  
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln  
 145                      150                      155                      160  
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser  
                     165                      170                      175  
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr  
                     180                      185                      190  
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser  
                     195                      200                      205  
 Phe Asn Arg Gly Glu Cys Gly Gly Gly Gly Ser Glu Gly Lys Ser Ser  
                     210                      215                      220  
 Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu Gly Lys Ser Ser Gly Ser  
 225                      230                      235                      240

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

<210> 212

<211> 472

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#20 scFab

<400> 212

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr  
 20 25 30  
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile  
 35 40 45  
 Tyr Ser Ala Ser Asn Arg Tyr Asp Ala Val Pro Ser Arg Phe Ser Gly  
 50 55 60  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Glu | Asp | Phe | Thr | Thr | Tyr | Tyr | Cys | Gln | Gln | Tyr | Ile | Ser | Tyr | Pro | Leu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Thr | Phe | Gly | Ala | Gly | Thr | Lys | Leu | Glu | Ile | Lys | Arg | Thr | Val | Ala | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala |
|     |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser |
|     |     | 210 |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Gln | Val | Gln | Leu |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | Ala | Ser | Val | Lys | Val |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Ser | Tyr | Trp | Met | Asn | Trp |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Val | Lys | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | Met | Gly | Gly | Ile | Tyr |
|     |     | 290 |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Leu | Ser | Gly | Asp | Ser | Thr | Asp | Tyr | Asn | Glu | Lys | Phe | Lys | Gly | Lys | Ala |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Thr | Met | Thr | Val | Asp | Thr | Ser | Thr | Ser | Thr | Val | Tyr | Met | Glu | Leu | Ser |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Thr | Arg | Arg | Gly |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Asp | Tyr | Phe | Gly | Asp | Phe | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser |
|     |     | 370 |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln |
|     |     |     | 435 |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp |
|     |     |     | 450 |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Lys | Arg | Val | Glu | Pro | Lys | Ser | Cys |     |     |     |     |     |     |     |     |

465

470

&lt;210&gt; 213

&lt;211&gt; 472

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; B7H6#21 scFab

&lt;400&gt; 213

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Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1           5           10           15
Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr
           20           25           30
Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile
           35           40           45
Tyr Ser Ala Ser Asn Arg Tyr Asp Gly Val Pro Ser Arg Phe Ser Gly
           50           55           60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65           70           75           80
Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Tyr Ile Ser Tyr Pro Leu
           85           90           95
Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala
           100          105          110
Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
           115          120          125
Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
           130          135          140
Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145          150          155          160
Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
           165          170          175
Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
           180          185          190
Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
           195          200          205
Phe Asn Arg Gly Glu Cys Gly Gly Gly Gly Ser Glu Gly Lys Ser Ser
           210          215          220
Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu Gly Lys Ser Ser Gly Ser
225          230          235          240
Gly Ser Glu Ser Lys Ser Thr Gly Gly Gly Gly Ser Gln Val Gln Leu
           245          250          255
Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val
           260          265          270
Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr Trp Met Asn Trp
           275          280          285
Met Lys Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile Gly Gly Ile Tyr
           290          295          300

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Leu Ser Gly Glu Ser Thr Asp Tyr Asn Glu Lys Phe Lys Gly Lys Val  
 305 310 315 320  
 Thr Met Thr Val Asp Thr Ser Thr Ser Thr Val Tyr Met Glu Leu Ser  
 325 330 335  
 Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Thr Arg Arg Gly  
 340 345 350  
 Asp Tyr Phe Gly Asp Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser  
 355 360 365  
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser  
 370 375 380  
 Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp  
 385 390 395 400  
 Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr  
 405 410 415  
 Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr  
 420 425 430  
 Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln  
 435 440 445  
 Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp  
 450 455 460  
 Lys Arg Val Glu Pro Lys Ser Cys  
 465 470

<210> 214

<211> 472

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#22 scFab

<400> 214

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr  
 20 25 30  
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile  
 35 40 45  
 Tyr Ser Ala Ser Asn Arg Tyr Asp Ala Val Pro Ser Arg Phe Ser Gly  
 50 55 60  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 65 70 75 80  
 Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Tyr Ile Ser Tyr Pro Leu  
 85 90 95  
 Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala  
 100 105 110  
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly  
 115 120 125  
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala



<220>

<223> B7H6#23 scFab

<400> 215

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Gln | Met | Thr | Gln | Ser | Pro | Ser | Ser | Leu | Ser | Ala | Ser | Val | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Asp | Arg | Val | Thr | Ile | Thr | Cys | Lys | Ala | Ser | Gln | Asn | Val | Gly | Lys | Tyr |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Ala | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Lys | Ala | Pro | Lys | Ser | Leu | Ile |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Tyr | Ser | Ala | Ser | Asn | Arg | Tyr | Asp | Ala | Val | Pro | Ser | Arg | Phe | Ser | Gly |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr | Ile | Ser | Ser | Leu | Gln | Pro |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Glu | Asp | Phe | Ala | Thr | Tyr | Phe | Cys | Gln | Gln | Tyr | Ile | Ser | Tyr | Pro | Leu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Thr | Phe | Gly | Ala | Gly | Thr | Lys | Leu | Glu | Ile | Lys | Arg | Thr | Val | Ala | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala |
|     | 130 |     |     |     | 135 |     |     |     |     |     | 140 |     |     |     |     |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Gln | Val | Gln | Leu |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | Ala | Ser | Val | Lys | Val |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Ser | Tyr | Trp | Met | Asn | Trp |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Met | Lys | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | Ile | Gly | Gly | Ile | Tyr |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Leu | Ser | Gly | Glu | Ser | Thr | Asp | Tyr | Asn | Glu | Lys | Phe | Lys | Gly | Lys | Val |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     | 320 |     |
| Thr | Met | Thr | Val | Asp | Thr | Ser | Thr | Ser | Thr | Val | Tyr | Met | Glu | Leu | Ser |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Thr | Arg | Arg | Gly |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     |     | 350 |     |     |
| Asp | Tyr | Phe | Gly | Asp | Phe | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     |     | 365 |     |     |

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser  
 370 375 380  
 Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp  
 385 390 395 400  
 Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr  
 405 410 415  
 Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr  
 420 425 430  
 Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln  
 435 440 445  
 Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp  
 450 455 460  
 Lys Arg Val Glu Pro Lys Ser Cys  
 465 470

<210> 216

<211> 472

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#24 scFab

<400> 216

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr  
 20 25 30  
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile  
 35 40 45  
 Tyr Ser Ala Ser Asn Arg Tyr Asp Ala Val Pro Ser Arg Phe Ser Gly  
 50 55 60  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 65 70 75 80  
 Glu Asp Phe Thr Thr Tyr Tyr Cys Gln Gln Tyr Ile Ser Tyr Pro Leu  
 85 90 95  
 Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala  
 100 105 110  
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly  
 115 120 125  
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala  
 130 135 140  
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln  
 145 150 155 160  
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser  
 165 170 175  
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr  
 180 185 190  
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| 195                                                             | 200 | 205 |
| Phe Asn Arg Gly Glu Cys Gly Gly Gly Ser Glu Gly Lys Ser Ser     |     |     |
| 210                                                             | 215 | 220 |
| Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu Gly Lys Ser Ser Gly Ser |     |     |
| 225                                                             | 230 | 235 |
| Gly Ser Glu Ser Lys Ser Thr Gly Gly Gly Gly Ser Gln Val Gln Leu |     |     |
| 245                                                             | 250 | 255 |
| Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val |     |     |
| 260                                                             | 265 | 270 |
| Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr Trp Met Asn Trp |     |     |
| 275                                                             | 280 | 285 |
| Met Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly Ile Tyr |     |     |
| 290                                                             | 295 | 300 |
| Leu Ser Gly Asp Ser Thr Asp Tyr Asn Glu Lys Phe Lys Gly Arg Val |     |     |
| 305                                                             | 310 | 315 |
| Thr Met Thr Val Asp Thr Ser Thr Ser Thr Val Tyr Met Glu Leu Ser |     |     |
| 325                                                             | 330 | 335 |
| Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Thr Arg Arg Gly |     |     |
| 340                                                             | 345 | 350 |
| Asp Tyr Phe Gly Asp Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser |     |     |
| 355                                                             | 360 | 365 |
| Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser |     |     |
| 370                                                             | 375 | 380 |
| Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp |     |     |
| 385                                                             | 390 | 395 |
| Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr |     |     |
| 405                                                             | 410 | 415 |
| Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr |     |     |
| 420                                                             | 425 | 430 |
| Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln |     |     |
| 435                                                             | 440 | 445 |
| Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp |     |     |
| 450                                                             | 455 | 460 |
| Lys Arg Val Glu Pro Lys Ser Cys                                 |     |     |
| 465                                                             | 470 |     |

<210> 217

<211> 706

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#1 chain

<400> 217

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Asn | Gln | Lys | Asn | Tyr | Leu | Ala | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Gln |
| 35  |     |     |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| Ser | Pro | Lys | Leu | Leu | Ile | Tyr | Trp | Ala | Ser | Thr | Arg | Glu | Ser | Gly | Val |
| 50  |     |     |     |     |     | 55  |     |     |     |     |     | 60  |     |     |     |
| Pro | Asp | Arg | Phe | Thr | Gly | Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr |
| 65  |     |     |     | 70  |     |     |     |     |     | 75  |     |     | 80  |     |     |
| Ile | Ser | Ser | Val | Lys | Ala | Glu | Asp | Leu | Ala | Val | Tyr | Tyr | Cys | Gln | Gln |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     | 95  |     |     |     |
| Tyr | Tyr | Asn | Tyr | Pro | Arg | Thr | Phe | Gly | Gly | Gly | Thr | Lys | Leu | Glu | Ile |
| 100 |     |     |     |     |     | 105 |     |     |     |     |     | 110 |     |     |     |
| Lys | Arg | Thr | Val | Ala | Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp |
| 115 |     |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Glu | Gln | Leu | Lys | Ser | Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn |
| 130 |     |     |     |     |     | 135 |     |     |     |     |     | 140 |     |     |     |
| Phe | Tyr | Pro | Arg | Glu | Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu |
| 145 |     |     |     | 150 |     |     |     |     |     | 155 |     |     | 160 |     |     |
| Gln | Ser | Gly | Asn | Ser | Gln | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     | 175 |     |     |     |
| Ser | Thr | Tyr | Ser | Leu | Ser | Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr |
| 180 |     |     |     |     |     | 185 |     |     |     |     |     | 190 |     |     |     |
| Glu | Lys | His | Lys | Val | Tyr | Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser |
| 195 |     |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Ser | Pro | Val | Thr | Lys | Ser | Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly |
| 210 |     |     |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |
| Ser | Glu | Gly | Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu |
| 225 |     |     |     | 230 |     |     |     |     |     | 235 |     |     | 240 |     |     |
| Gly | Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     | 255 |     |     |     |
| Gly | Ser | Glu | Val | Gln | Leu | Gln | Gln | Ser | Gly | Pro | Glu | Leu | Val | Lys | Pro |
| 260 |     |     |     |     |     | 265 |     |     |     |     |     | 270 |     |     |     |
| Gly | Thr | Ser | Val | Lys | Met | Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr |
| 275 |     |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |     |
| Asp | Tyr | Tyr | Met | Asn | Trp | Val | Lys | Gln | Ser | Gln | Gly | Lys | Asn | Leu | Glu |
| 290 |     |     |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |
| Trp | Ile | Ala | Tyr | Ile | Tyr | Pro | Lys | Thr | Gly | Gly | Asn | Gly | Tyr | Asn | Gln |
| 305 |     |     |     | 310 |     |     |     |     |     | 315 |     |     | 320 |     |     |
| Lys | Phe | Lys | Asp | Lys | Ala | Thr | Leu | Thr | Val | Asp | Lys | Ser | Ser | Asn | Thr |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     | 335 |     |     |     |
| Ala | Tyr | Met | Glu | Leu | Arg | Ser | Leu | Thr | Ser | Asp | Asp | Ser | Ala | Val | Tyr |
| 340 |     |     |     |     |     | 345 |     |     |     |     |     | 350 |     |     |     |
| Tyr | Cys | Gly | Arg | Glu | Asn | Trp | Asp | Gly | Tyr | Thr | Met | Ala | Tyr | Trp | Gly |
| 355 |     |     |     |     |     | 360 |     |     |     |     |     | 365 |     |     |     |
| Gln | Gly | Thr | Ser | Val | Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser |
| 370 |     |     |     |     |     | 375 |     |     |     |     |     | 380 |     |     |     |
| Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala |
| 385 |     |     |     | 390 |     |     |     |     |     | 395 |     |     | 400 |     |     |
| Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     | 415 |     |     |     |
| Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala |
| 420 |     |     |     |     |     | 425 |     |     |     |     |     | 430 |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val | Thr | Val |
| 435 |     |     |     | 440 |     |     |     | 445 |     |     |     |     |     |     |     |
| Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln | Thr | Tyr | Ile | Cys | Asn | Val | Asn | His |
| 450 |     |     |     | 455 |     |     |     | 460 |     |     |     |     |     |     |     |
| Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp | Lys | Arg | Val | Glu | Pro | Lys | Ser | Cys |
| 465 |     |     |     | 470 |     |     |     | 475 |     |     |     | 480 |     |     |     |
| Asp | Lys | Thr | His | Thr | Cys | Pro | Pro | Cys | Pro | Ala | Pro | Glu | Ala | Ala | Gly |
| 485 |     |     |     | 490 |     |     |     | 495 |     |     |     |     |     |     |     |
| Gly | Pro | Ser | Val | Phe | Leu | Phe | Pro | Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met |
| 500 |     |     |     | 505 |     |     |     | 510 |     |     |     |     |     |     |     |
| Ile | Ser | Arg | Thr | Pro | Glu | Val | Thr | Cys | Val | Val | Val | Asp | Val | Ser | His |
| 515 |     |     |     | 520 |     |     |     | 525 |     |     |     |     |     |     |     |
| Glu | Asp | Pro | Glu | Val | Lys | Phe | Asn | Trp | Tyr | Val | Asp | Gly | Val | Glu | Val |
| 530 |     |     |     | 535 |     |     |     | 540 |     |     |     |     |     |     |     |
| His | Asn | Ala | Lys | Thr | Lys | Pro | Arg | Glu | Glu | Gln | Tyr | Asn | Ser | Thr | Tyr |
| 545 |     |     |     | 550 |     |     |     | 555 |     |     |     | 560 |     |     |     |
| Arg | Val | Val | Ser | Val | Leu | Thr | Val | Leu | His | Gln | Asp | Trp | Leu | Asn | Gly |
| 565 |     |     |     | 570 |     |     |     | 575 |     |     |     |     |     |     |     |
| Lys | Glu | Tyr | Lys | Cys | Lys | Val | Ser | Asn | Lys | Ala | Leu | Pro | Ala | Pro | Ile |
| 580 |     |     |     | 585 |     |     |     | 590 |     |     |     |     |     |     |     |
| Glu | Lys | Thr | Ile | Ser | Lys | Ala | Lys | Gly | Gln | Pro | Arg | Glu | Pro | Gln | Val |
| 595 |     |     |     | 600 |     |     |     | 605 |     |     |     |     |     |     |     |
| Tyr | Thr | Leu | Pro | Pro | Ser | Arg | Glu | Glu | Met | Thr | Lys | Asn | Gln | Val | Ser |
| 610 |     |     |     | 615 |     |     |     | 620 |     |     |     |     |     |     |     |
| Leu | Trp | Cys | Leu | Val | Lys | Gly | Phe | Tyr | Pro | Ser | Asp | Ile | Ala | Val | Glu |
| 625 |     |     |     | 630 |     |     |     | 635 |     |     |     | 640 |     |     |     |
| Trp | Glu | Ser | Asn | Gly | Gln | Pro | Glu | Asn | Asn | Tyr | Lys | Thr | Thr | Pro | Pro |
| 645 |     |     |     | 650 |     |     |     | 655 |     |     |     |     |     |     |     |
| Val | Leu | Asp | Ser | Asp | Gly | Ser | Phe | Phe | Leu | Tyr | Ser | Lys | Leu | Thr | Val |
| 660 |     |     |     | 665 |     |     |     | 670 |     |     |     |     |     |     |     |
| Asp | Lys | Ser | Arg | Trp | Gln | Gln | Gly | Asn | Val | Phe | Ser | Cys | Ser | Val | Met |
| 675 |     |     |     | 680 |     |     |     | 685 |     |     |     |     |     |     |     |
| His | Glu | Ala | Leu | His | Asn | His | Tyr | Thr | Gln | Lys | Ser | Leu | Ser | Leu | Ser |
| 690 |     |     |     | 695 |     |     |     | 700 |     |     |     |     |     |     |     |
| Pro | Gly |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 705 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 218

<211> 701

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#2 chain

<400> 218

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ile | Val | Leu | Thr | Gln | Ser | Pro | Asp | Phe | Leu | Ser | Ala | Ser | Pro | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Glu | Lys | Val | Thr | Met | Thr | Cys | Arg | Ala | Thr | Ser | Ser | Leu | Tyr | Ser | Met |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |
| His | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Ser | Ser | Pro | Lys | Pro | Trp | Ile | Tyr |  |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |  |
| Ala | Thr | Phe | Asn | Leu | Ala | Ser | Gly | Val | Pro | Ala | Arg | Phe | Ser | Gly | Ser |  |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |  |
| Gly | Ser | Gly | Thr | Ser | Tyr | Ser | Leu | Thr | Ile | Thr | Arg | Val | Glu | Ala | Glu |  |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |  |
| Asp | Ala | Ala | Thr | Tyr | Tyr | Cys | Gln | Gln | Trp | Ser | Thr | Asn | Pro | Pro | Lys |  |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |  |
| Leu | Thr | Phe | Gly | Ala | Gly | Thr | Lys | Leu | Glu | Leu | Lys | Arg | Thr | Val | Ala |  |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |     |  |
| Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser |  |
|     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |     |  |
| Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu |  |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |
| Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser |  |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |
| Gln | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu |  |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |  |
| Ser | Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val |  |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |  |
| Tyr | Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys |  |
|     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     |  |
| Ser | Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser |  |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |
| Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |
| Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Glu | Val | Gln |  |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |     |  |
| Leu | Gln | Gln | Ser | Gly | Ala | Glu | Leu | Val | Arg | Pro | Gly | Ala | Ser | Val | Lys |  |
|     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |     |     |  |
| Leu | Ser | Cys | Thr | Ala | Ser | Gly | Phe | Asn | Ile | Lys | Asn | Thr | Phe | Ile | His |  |
|     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |     |  |
| Trp | Val | Asn | Gln | Arg | Pro | Glu | Gln | Gly | Leu | Glu | Trp | Ile | Gly | Arg | Ile |  |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |  |
| Asp | Pro | Ala | Asn | Gly | Asn | Thr | Ile | Tyr | Ala | Ser | Lys | Phe | Gln | Gly | Arg |  |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |
| Ala | Thr | Ile | Thr | Thr | Asp | Thr | Ser | Ser | Asn | Thr | Ala | Tyr | Met | His | Leu |  |
|     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |     |  |
| Ser | Ser | Leu | Thr | Ser | Gly | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Ala | Arg | Thr |  |
|     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |     |     |  |
| Tyr | Gly | Gly | Thr | Asn | Tyr | Phe | Asp | Tyr | Trp | Gly | Gln | Gly | Thr | Thr | Leu |  |
|     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |     |  |
| Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala |  |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |  |
| Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu |  |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |  |
| Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly |  |
|     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |     |  |
| Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser |  |



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | His | Ser | Pro | Lys | Ala | Leu | Ile |
| 35  |     |     |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| His | Ser | Ala | Ser | Asn | Arg | Tyr | Ser | Gly | Val | Pro | Asp | Arg | Phe | Thr | Gly |
| 50  |     |     |     |     |     | 55  |     |     |     |     |     | 60  |     |     |     |
| Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr | Ile | Thr | Asn | Val | Gln | Ser |
| 65  |     |     |     |     | 70  |     |     |     |     |     | 75  |     |     |     | 80  |
| Glu | Asp | Leu | Ala | Glu | Tyr | Phe | Cys | Gln | Gln | Tyr | Asn | Ser | Tyr | Pro | Leu |
|     |     |     |     | 85  |     |     |     |     |     | 90  |     |     |     | 95  |     |
| Thr | Phe | Gly | Ala | Gly | Thr | Lys | Leu | Glu | Leu | Ile | Arg | Thr | Val | Ala | Ala |
| 100 |     |     |     |     |     |     |     | 105 |     |     |     |     |     | 110 |     |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly |
| 115 |     |     |     |     |     |     |     | 120 |     |     |     |     |     | 125 |     |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala |
| 130 |     |     |     |     |     | 135 |     |     |     |     |     | 140 |     |     |     |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln |
| 145 |     |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     | 160 |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser |
|     |     |     |     | 165 |     |     |     |     |     | 170 |     |     |     | 175 |     |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr |
| 180 |     |     |     |     |     |     |     | 185 |     |     |     |     |     | 190 |     |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser |
| 195 |     |     |     |     |     |     |     | 200 |     |     |     |     |     | 205 |     |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser |
| 210 |     |     |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser |
| 225 |     |     |     |     | 230 |     |     |     |     |     | 235 |     |     |     | 240 |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Glu | Val | Lys | Leu |
|     |     |     |     | 245 |     |     |     |     |     | 250 |     |     |     | 255 |     |
| Val | Glu | Ser | Glu | Gly | Gly | Leu | Val | Gln | Pro | Gly | Ser | Ser | Met | Lys | Leu |
| 260 |     |     |     |     |     |     |     | 265 |     |     |     |     |     | 270 |     |
| Ser | Cys | Thr | Ala | Ser | Gly | Phe | Thr | Phe | Ser | Asp | Tyr | Tyr | Met | Thr | Trp |
| 275 |     |     |     |     |     |     |     | 280 |     |     |     |     |     | 285 |     |
| Val | Arg | Gln | Val | Pro | Glu | Lys | Gly | Leu | Glu | Trp | Val | Gly | Asn | Ile | Asp |
| 290 |     |     |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |
| Tyr | Asp | Gly | Ser | Arg | Ile | Tyr | Tyr | Leu | Asp | Ser | Leu | Lys | Ser | Arg | Phe |
| 305 |     |     |     |     | 310 |     |     |     |     |     | 315 |     |     |     | 320 |
| Ile | Ile | Ser | Arg | Asp | Asn | Ala | Lys | Asn | Ile | Leu | Tyr | Leu | Gln | Met | Asn |
|     |     |     |     | 325 |     |     |     |     |     | 330 |     |     |     | 335 |     |
| Ser | Leu | Lys | Ser | Glu | Asp | Thr | Ala | Thr | Tyr | Tyr | Cys | Ala | Arg | Asp | Asp |
| 340 |     |     |     |     |     |     |     | 345 |     |     |     |     |     | 350 |     |
| Pro | Ala | Trp | Leu | Ala | Tyr | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser |
| 355 |     |     |     |     |     |     |     | 360 |     |     |     |     |     | 365 |     |
| Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser |
| 370 |     |     |     |     |     | 375 |     |     |     |     |     | 380 |     |     |     |
| Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp |
| 385 |     |     |     |     | 390 |     |     |     |     |     | 395 |     |     |     | 400 |
| Tyr | Phe | Pro | Glu | Pro | Val | Thr |     |     |     |     |     |     |     |     |     |

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

<210> 220

<211> 698

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#4 chain

<400> 220

Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Ser Val Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr  
 20 25 30  
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Ala Leu Ile



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

<210> 221

<211> 700

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#5 chain

<400> 221

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ala | Ala | Ser | Ser | Leu | Glu | Ser | Gly | Val | Pro | Ser | Arg | Phe | Ser | Gly | 50  | 55  | 60  |
| Arg | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr | Ile | Ser | Ser | Leu | Gln | Pro | 65  | 70  | 75  |
| Glu | Asp | Phe | Ala | Thr | Tyr | Tyr | Cys | Leu | Gln | Tyr | Tyr | Asn | His | Pro | Leu | 85  | 90  | 95  |
| Thr | Phe | Gly | Gly | Gly | Thr | Lys | Val | Glu | Ile | Lys | Arg | Thr | Val | Ala | Ala | 100 | 105 | 110 |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly | 115 | 120 | 125 |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala | 130 | 135 | 140 |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln | 145 | 150 | 155 |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser | 165 | 170 | 175 |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr | 180 | 185 | 190 |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser | 195 | 200 | 205 |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser | 210 | 215 | 220 |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser | 225 | 230 | 235 |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Gln | Val | Gln | Leu | 245 | 250 | 255 |
| Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | Ala | Ser | Val | Lys | Val | 260 | 265 | 270 |
| Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Gly | Tyr | Tyr | Ile | His | Trp | 275 | 280 | 285 |
| Val | Arg | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | Met | Gly | Trp | Ile | Asn | 290 | 295 | 300 |
| Pro | His | Ser | Gly | Ala | Thr | Asn | Tyr | Ala | Gln | Asn | Phe | Gln | Gly | Arg | Val | 305 | 310 | 315 |
| Thr | Met | Thr | Arg | Asp | Thr | Ser | Ile | Ser | Thr | Ala | Tyr | Met | Glu | Leu | Ser | 325 | 330 | 335 |
| Arg | Leu | Arg | Ser | Asp | Asp | Ala | Ala | Val | Tyr | Tyr | Cys | Ala | Arg | Glu | Arg | 340 | 345 | 350 |
| Trp | Gly | Ser | Gly | Thr | Phe | Asn | Ile | Trp | Gly | Gln | Gly | Thr | Met | Val | Thr | 355 | 360 | 365 |
| Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | 370 | 375 | 380 |
| Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | 385 | 390 | 395 |
| Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | 405 | 410 | 415 |
| Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | 420 | 425 | 430 |
| Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | 435 | 440 | 445 |

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

<210> 222

<211> 701

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#6 chain

<400> 222

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |  |
| Ser | Gly | Tyr | Gly | Thr | Asp | Phe | Thr | Phe | Thr | Ile | Ser | Thr | Val | Gln | Ala |     |  |
| 65  |     |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |  |
| Glu | Asp | Leu | Ala | Val | Tyr | Phe | Cys | Gln | Gln | Asp | Tyr | Ser | Ser | Pro | Tyr |     |  |
|     |     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |  |
| Thr | Phe | Gly | Gly | Gly | Thr | Lys | Leu | Glu | Ile | Lys | Arg | Thr | Val | Ala | Ala |     |  |
|     |     |     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |  |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly |     |  |
|     |     |     |     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |  |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala |     |  |
|     |     |     |     |     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |  |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln |     |  |
| 145 |     |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser |     |  |
|     |     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr |     |  |
|     |     |     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |  |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser |     |  |
|     |     |     |     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |  |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser |     |  |
|     |     |     |     |     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |  |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser |     |  |
| 225 |     |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Glu | Val | Gln | Leu |     |  |
|     |     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |
| Gln | Gln | Ser | Gly | Pro | Glu | Leu | Leu | Lys | Pro | Gly | Ala | Ser | Val | Lys | Ile |     |  |
|     |     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |  |
| Ser | Cys | Lys | Thr | Ser | Gly | Tyr | Thr | Phe | Thr | Asp | Tyr | Thr | Met | His | Trp |     |  |
|     |     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |  |
| Val | Lys | Gln | Ser | His | Gly | Lys | Ser | Leu | Glu | Trp | Ile | Gly | Gly | Ile | Asn |     |  |
|     |     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |  |
| Pro | Asn | Tyr | Asp | Asn | Thr | Gly | Tyr | Ser | Glu | Lys | Phe | Lys | Asp | Lys | Ala |     |  |
| 305 |     |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |
| Thr | Leu | Thr | Val | Asp | Lys | Ser | Ser | Ser | Thr | Ala | Tyr | Met | Glu | Leu | Arg |     |  |
|     |     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |  |
| Ser | Leu | Thr | Ser | Glu | Asp | Ser | Ala | Val | Tyr | Tyr | Cys | Thr | Arg | Ser | Gly |     |  |
|     |     |     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |  |
| Ser | Arg | Arg | Ser | Phe | Tyr | Phe | Asp | Tyr | Trp | Gly | Gln | Gly | Thr | Thr | Leu |     |  |
|     |     |     |     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |  |
| Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala |     |  |
|     |     |     |     |     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |  |
| Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu |     |  |
| 385 |     |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |  |
| Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly |     |  |
|     |     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |  |
| Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser |     |  |
|     |     |     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |  |
| Gly | Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu |     |  |
|     |     |     |     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |  |
| Gly | Thr | Gln | Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr |     |  |

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

<210> 223

<211> 698

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#7 chain

<400> 223

|                                                                 |    |    |    |
|-----------------------------------------------------------------|----|----|----|
| Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly |    |    |    |
| 1                                                               | 5  | 10 | 15 |
| Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp |    |    |    |
|                                                                 | 20 | 25 | 30 |
| Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asn Leu Leu Ile |    |    |    |
|                                                                 | 35 | 40 | 45 |
| Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly |    |    |    |
| 50                                                              | 55 | 60 |    |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr | Ile | Ser | Ser | Leu | Gln | Pro |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Glu | Asp | Phe | Ala | Thr | Tyr | Tyr | Cys | Gln | Gln | Ala | Asn | Ser | Phe | Pro | Arg |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Thr | Phe | Gly | Gln | Gly | Thr | Lys | Val | Glu | Ile | Lys | Arg | Thr | Val | Ala | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala |
|     | 130 |     |     |     |     | 135 |     |     |     | 140 |     |     |     |     |     |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Gln | Val | Gln | Leu |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Gln | Glu | Ser | Gly | Pro | Gly | Leu | Val | Lys | Pro | Ser | Glu | Thr | Leu | Ser | Leu |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Thr | Tyr | Thr | Val | Ser | Gly | Gly | Ser | Ile | Ser | Tyr | Asn | Tyr | Trp | Ser | Trp |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Ile | Arg | Gln | Pro | Pro | Glu | Lys | Gly | Leu | Glu | Trp | Ile | Gly | His | Ile | Tyr |
|     | 290 |     |     |     |     | 295 |     |     |     | 300 |     |     |     |     |     |
| Tyr | Ser | Gly | Ser | Thr | Asn | Tyr | Asn | Pro | Ser | Leu | Lys | Ser | Arg | Val | Thr |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     | 320 |     |
| Ile | Ser | Val | Asp | Thr | Ser | Lys | Asn | Gln | Phe | Ser | Leu | Lys | Leu | Asn | Ser |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Val | Thr | Ala | Ala | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Ala | Arg | Val | Gly | Thr |
|     |     | 340 |     |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Trp | Gly | Ser | Phe | Asp | Asp | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser |
|     | 355 |     |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     | 400 |     |
| Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     | 415 |     |     |
| Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr |
|     |     | 420 |     |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln |
|     | 435 |     |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |

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

<210> 224

<211> 713

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#8 chain

<400> 224

Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly  
 1 5 10 15  
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Tyr Asn  
 20 25 30  
 Asn Arg Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser  
 35 40 45  
 Pro Glu Val Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro  
 50 55 60  
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Ser | Arg | Val | Glu | Ala | Glu | Asp | Phe | Gly | Val | Tyr | Tyr | Cys | Met | Gln | Thr |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Leu | Gln | Ile | Pro | Ile | Thr | Phe | Gly | Gln | Gly | Thr | Arg | Leu | Glu | Ile | Lys |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Arg | Thr | Val | Ala | Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu |
|     |     | 115 |     |     |     |     | 120 |     |     |     | 125 |     |     |     |     |
| Gln | Leu | Lys | Ser | Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Tyr | Pro | Arg | Glu | Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln |
| 145 |     |     |     |     | 150 |     |     |     | 155 |     |     |     |     | 160 |     |
| Ser | Gly | Asn | Ser | Gln | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     | 175 |     |     |
| Thr | Tyr | Ser | Leu | Ser | Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |
| Lys | His | Lys | Val | Tyr | Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser |
|     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     |
| Pro | Val | Thr | Lys | Ser | Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser |
|     | 210 |     |     |     |     | 215 |     |     |     | 220 |     |     |     |     |     |
| Glu | Gly | Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly |
| 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |     |
| Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |     |
| Ser | Gln | Val | Gln | Val | Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |     |
| Ser | Ser | Val | Lys | Val | Ser | Cys | Lys | Gly | Ser | Gly | Asp | Thr | Leu | Asn | Ser |
|     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |     |
| Tyr | Gly | Ile | Ser | Trp | Met | Arg | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp |
|     | 290 |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |     |
| Met | Gly | Gly | Ile | Ile | Pro | Ile | Phe | Asp | Thr | Thr | Lys | Tyr | Ala | Gln | Lys |
| 305 |     |     |     | 310 |     |     |     | 315 |     |     |     |     |     | 320 |     |
| Phe | Gln | Gly | Arg | Val | Thr | Ile | Thr | Ala | Asp | Lys | Ser | Thr | Thr | Thr | Val |
|     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |     |
| Tyr | Met | Glu | Leu | Ser | Ser | Leu | Arg | Phe | Glu | Asp | Thr | Ala | Val | Tyr | Tyr |
|     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |     |     |
| Cys | Ala | Arg | Glu | Arg | Gly | Tyr | Arg | Phe | Ser | Glu | Asp | Tyr | Tyr | Phe | Tyr |
|     | 355 |     |     |     |     | 360 |     |     |     | 365 |     |     |     |     |     |
| Tyr | Gly | Met | Asp | Val | Trp | Gly | Gln | Gly | Thr | Thr | Val | Thr | Val | Ser | Ser |
|     | 370 |     |     |     | 375 |     |     |     | 380 |     |     |     |     |     |     |
| Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser | Lys |
| 385 |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |     |
| Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp | Tyr |
|     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |
| Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr | Ser |
|     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |
| Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr | Ser |
|     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     |
| Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln | Thr |
|     | 450 |     |     |     |     | 455 |     |     |     | 460 |     |     |     |     |     |
| Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp | Lys |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 465 |     | 470 |     | 475 |     | 480 |     |     |     |     |     |     |     |     |     |
| Arg | Val | Glu | Pro | Lys | Ser | Cys | Asp | Lys | Thr | His | Thr | Cys | Pro | Pro | Cys |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |
| Pro | Ala | Pro | Glu | Ala | Ala | Gly | Gly | Pro | Ser | Val | Phe | Leu | Phe | Pro | Pro |
|     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |     |
| Lys | Pro | Lys | Asp | Thr | Leu | Met | Ile | Ser | Arg | Thr | Pro | Glu | Val | Thr | Cys |
|     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |
| Val | Val | Val | Asp | Val | Ser | His | Glu | Asp | Pro | Glu | Val | Lys | Phe | Asn | Trp |
|     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |     |     |     |     |
| Tyr | Val | Asp | Gly | Val | Glu | Val | His | Asn | Ala | Lys | Thr | Lys | Pro | Arg | Glu |
| 545 |     |     |     |     | 550 |     |     |     | 555 |     |     |     |     | 560 |     |
| Glu | Gln | Tyr | Asn | Ser | Thr | Tyr | Arg | Val | Val | Ser | Val | Leu | Thr | Val | Leu |
|     |     |     | 565 |     |     |     |     | 570 |     |     |     |     | 575 |     |     |
| His | Gln | Asp | Trp | Leu | Asn | Gly | Lys | Glu | Tyr | Lys | Cys | Lys | Val | Ser | Asn |
|     |     | 580 |     |     |     |     | 585 |     |     |     |     | 590 |     |     |     |
| Lys | Ala | Leu | Pro | Ala | Pro | Ile | Glu | Lys | Thr | Ile | Ser | Lys | Ala | Lys | Gly |
|     | 595 |     |     |     |     | 600 |     |     |     |     | 605 |     |     |     |     |
| Gln | Pro | Arg | Glu | Pro | Gln | Val | Tyr | Thr | Leu | Pro | Pro | Ser | Arg | Glu | Glu |
| 610 |     |     |     |     | 615 |     |     |     | 620 |     |     |     |     |     |     |
| Met | Thr | Lys | Asn | Gln | Val | Ser | Leu | Trp | Cys | Leu | Val | Lys | Gly | Phe | Tyr |
| 625 |     |     |     | 630 |     |     |     |     | 635 |     |     |     |     | 640 |     |
| Pro | Ser | Asp | Ile | Ala | Val | Glu | Trp | Glu | Ser | Asn | Gly | Gln | Pro | Glu | Asn |
|     |     |     | 645 |     |     |     |     | 650 |     |     |     | 655 |     |     |     |
| Asn | Tyr | Lys | Thr | Thr | Pro | Pro | Val | Leu | Asp | Ser | Asp | Gly | Ser | Phe | Phe |
|     |     | 660 |     |     |     |     | 665 |     |     |     |     | 670 |     |     |     |
| Leu | Tyr | Ser | Lys | Leu | Thr | Val | Asp | Lys | Ser | Arg | Trp | Gln | Gln | Gly | Asn |
|     | 675 |     |     |     | 680 |     |     |     |     |     | 685 |     |     |     |     |
| Val | Phe | Ser | Cys | Ser | Val | Met | His | Glu | Ala | Leu | His | Asn | His | Tyr | Thr |
|     | 690 |     |     |     | 695 |     |     |     |     | 700 |     |     |     |     |     |
| Gln | Lys | Ser | Leu | Ser | Leu | Ser | Pro | Gly |     |     |     |     |     |     |     |
| 705 |     |     |     | 710 |     |     |     |     |     |     |     |     |     |     |     |

<210> 225

<211> 708

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#9 chain

<400> 225

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Val | Leu | Thr | Gln | Ser | Pro | Val | Ser | Leu | Ala | Val | Ser | Leu | Gly |
| 1   |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Gln | Arg | Ala | Thr | Ile | Ser | Cys | Arg | Ala | Ser | Glu | Ser | Val | Asp | Asn | Phe |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |     |
| Gly | Val | Ser | Phe | Met | Asn | Trp | Phe | Gln | Gln | Lys | Pro | Gly | Gln | Pro | Pro |
|     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Lys | Leu | Leu | Ile | Tyr | Ala | Ala | Ser | Asn | Gln | Gly | Ser | Gly | Val | Pro | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Phe | Ser | Gly | Ser | Gly | Ser | Gly | Thr | Asp | Phe | Ser | Leu | Asn | Ile | His |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Pro | Leu | Glu | Glu | Asp | Asp | Thr | Ala | Met | Tyr | Phe | Cys | Gln | Gln | Ser | Lys |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |
| Glu | Val | Pro | Trp | Thr | Phe | Gly | Gly | Gly | Thr | Arg | Leu | Glu | Ile | Lys | Arg |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Thr | Val | Ala | Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Lys | Ser | Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr |
|     | 130 |     |     |     |     | 135 |     |     |     | 140 |     |     |     |     |     |
| Pro | Arg | Glu | Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Gly | Asn | Ser | Gln | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Tyr | Ser | Leu | Ser | Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| His | Lys | Val | Tyr | Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Val | Thr | Lys | Ser | Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu |
|     | 210 |     |     |     |     | 215 |     |     |     | 220 |     |     |     |     |     |
| Gly | Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys |
| 225 |     |     |     | 230 |     |     |     |     |     | 235 |     |     |     |     | 240 |
| Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Gln | Val | Gln | Leu | Gln | Gln | Pro | Gly | Ala | Glu | Met | Val | Arg | Pro | Gly | Ser |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
| Ser | Val | Lys | Leu | Ser | Cys | Lys | Ala | Ser | Asp | Tyr | Thr | Phe | Thr | His | Tyr |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Trp | Ile | His | Trp | Val | Lys | Gln | Arg | Pro | Leu | Glu | Gly | Leu | Glu | Trp | Ile |
|     | 290 |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |     |
| Gly | Ile | Ile | Gly | Pro | Ser | Asp | Asn | Glu | Ile | His | Tyr | Asn | Gln | Asp | Phe |
| 305 |     |     |     | 310 |     |     |     |     |     | 315 |     |     |     |     | 320 |
| Lys | Asp | Lys | Ala | Thr | Leu | Thr | Val | Asp | Lys | Ser | Ser | Asn | Thr | Ala | Tyr |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Leu | His | Leu | Asn | Ser | Leu | Thr | Ser | Glu | Asp | Ser | Ala | Val | Tyr | Tyr | Cys |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |     |
| Ala | Arg | Gln | Ile | Ile | Ser | Met | Val | Val | Gly | Thr | Glu | Tyr | Phe | Asp | Val |
|     | 355 |     |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Trp | Gly | Thr | Gly | Thr | Thr | Val | Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     | 415 |     |     |
| Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe |
|     |     | 420 |     |     |     |     | 425 |     |     |     |     |     | 430 |     |     |
| Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val |
|     | 435 |     |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln | Thr | Tyr | Ile | Cys | Asn | Val |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |

Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys  
 465 470 475 480  
 Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala  
 485 490 495  
 Ala Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr  
 500 505 510  
 Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val  
 515 520 525  
 Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val  
 530 535 540  
 Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser  
 545 550 555 560  
 Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu  
 565 570 575  
 Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala  
 580 585 590  
 Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro  
 595 600 605  
 Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln  
 610 615 620  
 Val Ser Leu Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala  
 625 630 635 640  
 Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr  
 645 650 655  
 Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu  
 660 665 670  
 Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser  
 675 680 685  
 Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser  
 690 695 700  
 Leu Ser Pro Gly  
 705

<210> 226

<211> 698

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#10 chain

<400> 226

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |  |  |  |  |
| Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr | Ile | Ser | Asn | Leu | Gln | Pro |     |  |  |  |  |
| 65  |     |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |  |  |  |  |
| Glu | Asp | Phe | Ala | Thr | Tyr | Tyr | Cys | Gln | Gln | Ala | Asn | Ser | Phe | Pro | Arg |     |  |  |  |  |
|     |     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |  |  |  |  |
| Thr | Phe | Gly | Gln | Gly | Thr | Lys | Val | Glu | Ile | Lys | Arg | Thr | Val | Ala | Ala |     |  |  |  |  |
|     |     |     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |  |  |  |  |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly |     |  |  |  |  |
|     |     |     |     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |  |  |  |  |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala |     |  |  |  |  |
|     |     |     |     |     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |  |  |  |  |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln |     |  |  |  |  |
| 145 |     |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |  |  |  |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser |     |  |  |  |  |
|     |     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |  |  |  |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr |     |  |  |  |  |
|     |     |     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |  |  |  |  |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser |     |  |  |  |  |
|     |     |     |     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |  |  |  |  |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser |     |  |  |  |  |
|     |     |     |     |     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |  |  |  |  |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser |     |  |  |  |  |
| 225 |     |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |  |  |  |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Gln | Val | His | Leu |     |  |  |  |  |
|     |     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |  |  |  |
| Gln | Glu | Ser | Gly | Pro | Gly | Leu | Val | Lys | Pro | Ser | Glu | Thr | Leu | Ser | Leu |     |  |  |  |  |
|     |     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |  |  |  |  |
| Thr | Cys | Thr | Val | Ser | Gly | Asp | Ser | Ile | Ser | Ser | Tyr | Tyr | Trp | Ser | Trp |     |  |  |  |  |
|     |     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |  |  |  |  |
| Ile | Arg | Gln | Pro | Ala | Gly | Lys | Gly | Leu | Glu | Trp | Ile | Gly | His | Ile | Tyr |     |  |  |  |  |
|     |     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |  |  |  |  |
| Thr | Ser | Glu | Lys | Asn | Asn | Tyr | Asn | Pro | Ser | Leu | Lys | Ser | Arg | Val | Ile |     |  |  |  |  |
| 305 |     |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |  |  |  |
| Met | Ser | Val | Asp | Thr | Ser | Lys | Asn | Gln | Phe | Ser | Leu | Asn | Leu | Ser | Ser |     |  |  |  |  |
|     |     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |  |  |  |  |
| Val | Thr | Ala | Ala | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Ala | Arg | Val | Gly | Asn |     |  |  |  |  |
|     |     |     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |  |  |  |  |
| Trp | Gly | Ser | His | Asp | Ala | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser |     |  |  |  |  |
|     |     |     |     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |  |  |  |  |
| Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser |     |  |  |  |  |
|     |     |     |     |     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |  |  |  |  |
| Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp |     |  |  |  |  |
| 385 |     |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |  |  |  |  |
| Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr |     |  |  |  |  |
|     |     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |  |  |  |  |
| Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr |     |  |  |  |  |
|     |     |     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |  |  |  |  |
| Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln |     |  |  |  |  |
|     |     |     |     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |  |  |  |  |
| Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp |     |  |  |  |  |

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

<210> 227

<211> 712

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#11 chain

<400> 227

|                                                                 |    |    |    |  |
|-----------------------------------------------------------------|----|----|----|--|
| Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly |    |    |    |  |
| 1                                                               | 5  | 10 | 15 |  |
| Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser |    |    |    |  |
|                                                                 | 20 | 25 | 30 |  |
| Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser |    |    |    |  |
|                                                                 | 35 | 40 | 45 |  |
| Pro Gln Val Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro |    |    |    |  |
| 50                                                              | 55 | 60 |    |  |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Arg | Phe | Ser | Gly | Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Lys | Ile |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Ser | Arg | Val | Glu | Ala | Glu | Asp | Val | Gly | Val | Tyr | Tyr | Cys | Met | Gln | Ala |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Leu | Gln | Thr | Pro | Leu | Thr | Phe | Gly | Gly | Gly | Thr | Lys | Val | Glu | Ile | Lys |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Arg | Thr | Val | Ala | Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Gln | Leu | Lys | Ser | Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Tyr | Pro | Arg | Glu | Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Ser | Gly | Asn | Ser | Gln | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Thr | Tyr | Ser | Leu | Ser | Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Lys | His | Lys | Val | Tyr | Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser |
|     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     |
| Pro | Val | Thr | Lys | Ser | Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Glu | Gly | Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Ser | Glu | Leu | Gln | Leu | Val | Asn | Ser | Gly | Gly | Gly | Leu | Val | Lys | Ser | Gly |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |     |
| Gly | Ser | Leu | Arg | Leu | Ser | Cys | Ala | Ala | Ser | Gly | Ile | Thr | Phe | Ser | Tyr |
|     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |     |
| Tyr | Thr | Met | Asn | Trp | Val | Arg | Gln | Ala | Pro | Gly | Lys | Gly | Leu | Glu | Trp |
|     | 290 |     |     |     |     | 295 |     |     |     | 300 |     |     |     |     |     |
| Val | Ser | Ser | Ile | Ser | Ser | Arg | Ser | Ser | Tyr | Ile | Tyr | Tyr | Ala | Asp | Ser |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Val | Lys | Gly | Arg | Phe | Thr | Ile | Ser | Arg | Asp | Asn | Ala | Glu | Asn | Ser | Leu |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Tyr | Leu | Gln | Met | Asn | Ser | Leu | Arg | Ala | Glu | Asp | Thr | Ala | Val | Tyr | Tyr |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     |     | 350 |     |     |
| Cys | Ala | Arg | Asp | Lys | Gly | Asp | Tyr | Ser | Lys | Asp | Ile | Tyr | Tyr | Tyr | Tyr |
|     | 355 |     |     |     |     | 360 |     |     |     |     |     | 365 |     |     |     |
| Gly | Met | Asp | Val | Trp | Gly | Gln | Gly | Thr | Thr | Val | Thr | Val | Ser | Ser | Ala |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser | Lys | Ser |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp | Tyr | Phe |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr | Ser | Gly |
|     |     | 420 |     |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr | Ser | Leu |
|     | 435 |     |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln | Thr | Tyr |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp | Lys | Arg |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Val | Glu | Pro | Lys | Ser | Cys | Asp | Lys | Thr | His | Thr | Cys | Pro | Pro | Cys | Pro |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |
| Ala | Pro | Glu | Ala | Ala | Gly | Gly | Pro | Ser | Val | Phe | Leu | Phe | Pro | Pro | Lys |
|     |     |     | 500 |     |     |     | 505 |     |     |     |     | 510 |     |     |     |
| Pro | Lys | Asp | Thr | Leu | Met | Ile | Ser | Arg | Thr | Pro | Glu | Val | Thr | Cys | Val |
|     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |     |
| Val | Val | Asp | Val | Ser | His | Glu | Asp | Pro | Glu | Val | Lys | Phe | Asn | Trp | Tyr |
|     | 530 |     |     |     | 535 |     |     |     |     |     | 540 |     |     |     |     |
| Val | Asp | Gly | Val | Glu | Val | His | Asn | Ala | Lys | Thr | Lys | Pro | Arg | Glu | Glu |
| 545 |     |     |     |     | 550 |     |     |     | 555 |     |     |     |     |     | 560 |
| Gln | Tyr | Asn | Ser | Thr | Tyr | Arg | Val | Val | Ser | Val | Leu | Thr | Val | Leu | His |
|     |     |     | 565 |     |     |     |     |     | 570 |     |     |     |     | 575 |     |
| Gln | Asp | Trp | Leu | Asn | Gly | Lys | Glu | Tyr | Lys | Cys | Lys | Val | Ser | Asn | Lys |
|     |     |     | 580 |     |     |     |     | 585 |     |     |     |     | 590 |     |     |
| Ala | Leu | Pro | Ala | Pro | Ile | Glu | Lys | Thr | Ile | Ser | Lys | Ala | Lys | Gly | Gln |
|     | 595 |     |     |     |     | 600 |     |     |     |     |     | 605 |     |     |     |
| Pro | Arg | Glu | Pro | Gln | Val | Tyr | Thr | Leu | Pro | Pro | Ser | Arg | Glu | Glu | Met |
|     | 610 |     |     |     |     | 615 |     |     |     |     | 620 |     |     |     |     |
| Thr | Lys | Asn | Gln | Val | Ser | Leu | Trp | Cys | Leu | Val | Lys | Gly | Phe | Tyr | Pro |
| 625 |     |     |     |     | 630 |     |     |     |     | 635 |     |     |     |     | 640 |
| Ser | Asp | Ile | Ala | Val | Glu | Trp | Glu | Ser | Asn | Gly | Gln | Pro | Glu | Asn | Asn |
|     |     |     | 645 |     |     |     |     |     | 650 |     |     |     |     | 655 |     |
| Tyr | Lys | Thr | Thr | Pro | Pro | Val | Leu | Asp | Ser | Asp | Gly | Ser | Phe | Phe | Leu |
|     |     |     | 660 |     |     |     |     |     | 665 |     |     |     |     | 670 |     |
| Tyr | Ser | Lys | Leu | Thr | Val | Asp | Lys | Ser | Arg | Trp | Gln | Gln | Gly | Asn | Val |
|     |     | 675 |     |     |     |     | 680 |     |     |     |     |     | 685 |     |     |
| Phe | Ser | Cys | Ser | Val | Met | His | Glu | Ala | Leu | His | Asn | His | Tyr | Thr | Gln |
|     | 690 |     |     |     |     | 695 |     |     |     |     | 700 |     |     |     |     |
| Lys | Ser | Leu | Ser | Leu | Ser | Pro | Gly |     |     |     |     |     |     |     |     |
| 705 |     |     |     |     |     | 710 |     |     |     |     |     |     |     |     |     |

<210> 228

<211> 698

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#12 chain

<400> 228

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



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

<210> 229

<211> 698

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#13 chain

<400> 229

|                                                                 |    |    |    |
|-----------------------------------------------------------------|----|----|----|
| Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly |    |    |    |
| 1                                                               | 5  | 10 | 15 |
| Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr |    |    |    |
|                                                                 | 20 | 25 | 30 |
| Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile |    |    |    |
|                                                                 | 35 | 40 | 45 |
| Tyr Ser Ala Ser Asn Arg Tyr Asp Gly Val Pro Ser Arg Phe Ser Gly |    |    |    |
| 50                                                              | 55 | 60 |    |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr | Ile | Ser | Ser | Leu | Gln | Pro |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Glu | Asp | Phe | Thr | Thr | Tyr | Tyr | Cys | Gln | Gln | Tyr | Ile | Ser | Tyr | Pro | Leu |
|     |     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |
| Thr | Phe | Gly | Ala | Gly | Thr | Lys | Leu | Glu | Ile | Lys | Arg | Thr | Val | Ala | Ala |
|     |     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Gln | Val | Gln | Leu |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | Ala | Ser | Val | Lys | Val |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Ser | Tyr | Trp | Met | Asn | Trp |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Met | Lys | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | Met | Gly | Gly | Ile | Tyr |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Leu | Asn | Gly | Asp | Ser | Thr | Asp | Tyr | Asn | Glu | Lys | Phe | Lys | Gly | Arg | Val |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Thr | Met | Thr | Val | Asp | Thr | Ser | Thr | Ser | Thr | Val | Tyr | Met | Glu | Leu | Ser |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Thr | Arg | Arg | Gly |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     |     | 350 |     |     |
| Asp | Tyr | Phe | Gly | Asp | Phe | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser |
|     | 355 |     |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     | 400 |     |
| Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr |
|     |     | 420 |     |     |     |     | 425 |     |     |     |     |     | 430 |     |     |
| Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln |
|     | 435 |     |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |

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

<210> 230

<211> 698

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#14 chain

<400> 230

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr  
 20 25 30  
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile  
 35 40 45  
 Tyr Ser Ala Ser Asn Arg Tyr Asp Gly Val Pro Ser Arg Phe Ser Gly  
 50 55 60  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Glu | Asp | Phe | Ala | Thr | Tyr | Phe | Cys | Gln | Gln | Tyr | Ile | Ser | Tyr | Pro | Leu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     | 95  |     |     |
| Thr | Phe | Gly | Ala | Gly | Thr | Lys | Leu | Glu | Ile | Lys | Arg | Thr | Val | Ala | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala |
|     |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser |
|     |     | 210 |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Gln | Val | Gln | Leu |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | Ala | Ser | Val | Lys | Val |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Asn | Tyr | Trp | Met | Asn | Trp |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |
| Met | Lys | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | Ile | Gly | Gly | Ile | Tyr |
|     |     | 290 |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Leu | Asn | Gly | Asp | Ser | Thr | Asp | Tyr | Asn | Glu | Lys | Phe | Lys | Gly | Lys | Val |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Thr | Met | Thr | Val | Asp | Thr | Ser | Thr | Ser | Thr | Val | Tyr | Met | Glu | Leu | Ser |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Thr | Arg | Arg | Gly |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     |     | 350 |     |     |
| Asp | Tyr | Phe | Gly | Asp | Phe | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     |     | 365 |     |     |
| Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser |
|     |     | 370 |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr |
|     |     | 420 |     |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     |     | 445 |     |     |
| Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp |
|     |     | 450 |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Lys | Arg | Val | Glu | Pro | Lys | Ser | Cys | Asp | Lys | Thr | His | Thr | Cys | Pro | Pro |

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

<210> 231

<211> 698

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#15 chain

<400> 231

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Glu | Asp | Phe | Thr | Thr | Tyr | Tyr | Cys | Gln | Gln | Tyr | Ile | Ser | Tyr | Pro | Leu |  |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     | 95  |     |     |     |  |
| Thr | Phe | Gly | Ala | Gly | Thr | Lys | Leu | Glu | Ile | Lys | Arg | Thr | Val | Ala | Ala |  |
|     |     |     |     | 100 |     |     |     | 105 |     |     |     | 110 |     |     |     |  |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly |  |
|     |     |     |     | 115 |     |     |     | 120 |     |     |     | 125 |     |     |     |  |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala |  |
|     |     |     |     | 130 |     |     |     | 135 |     |     |     | 140 |     |     |     |  |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln |  |
| 145 |     |     |     |     | 150 |     |     |     | 155 |     |     |     | 160 |     |     |  |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser |  |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     | 175 |     |     |     |  |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr |  |
|     |     |     |     | 180 |     |     |     | 185 |     |     |     | 190 |     |     |     |  |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser |  |
|     |     |     |     | 195 |     |     |     | 200 |     |     |     | 205 |     |     |     |  |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser |  |
|     |     |     |     | 210 |     |     |     | 215 |     |     |     | 220 |     |     |     |  |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser |  |
| 225 |     |     |     |     | 230 |     |     |     | 235 |     |     |     | 240 |     |     |  |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Gln | Val | Gln | Leu |  |
|     |     |     |     | 245 |     |     |     | 250 |     |     |     | 255 |     |     |     |  |
| Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | Ala | Ser | Val | Lys | Val |  |
|     |     |     |     | 260 |     |     |     | 265 |     |     |     | 270 |     |     |     |  |
| Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Asn | Tyr | Trp | Met | Asn | Trp |  |
|     |     |     |     | 275 |     |     |     | 280 |     |     |     | 285 |     |     |     |  |
| Met | Arg | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | Met | Gly | Gly | Ile | Tyr |  |
|     |     |     |     | 290 |     |     |     | 295 |     |     |     | 300 |     |     |     |  |
| Leu | Ser | Gly | Asp | Ser | Thr | Asp | Tyr | Asn | Glu | Lys | Phe | Lys | Gly | Arg | Val |  |
| 305 |     |     |     |     | 310 |     |     |     | 315 |     |     |     | 320 |     |     |  |
| Thr | Met | Thr | Val | Asp | Thr | Ser | Thr | Ser | Thr | Val | Tyr | Met | Glu | Leu | Ser |  |
|     |     |     |     | 325 |     |     |     | 330 |     |     |     | 335 |     |     |     |  |
| Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Thr | Arg | Arg | Gly |  |
|     |     |     |     | 340 |     |     |     | 345 |     |     |     | 350 |     |     |     |  |
| Asp | Tyr | Phe | Gly | Asp | Phe | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser |  |
|     |     |     |     | 355 |     |     |     | 360 |     |     |     | 365 |     |     |     |  |
| Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser |  |
|     |     |     |     | 370 |     |     |     | 375 |     |     |     | 380 |     |     |     |  |
| Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp |  |
| 385 |     |     |     |     | 390 |     |     |     | 395 |     |     |     | 400 |     |     |  |
| Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr |  |
|     |     |     |     | 405 |     |     |     | 410 |     |     |     | 415 |     |     |     |  |
| Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr |  |
|     |     |     |     | 420 |     |     |     | 425 |     |     |     | 430 |     |     |     |  |
| Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln |  |
|     |     |     |     | 435 |     |     |     | 440 |     |     |     | 445 |     |     |     |  |
| Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp |  |
|     |     |     |     | 450 |     |     |     | 455 |     |     |     | 460 |     |     |     |  |
| Lys | Arg | Val | Glu | Pro | Lys | Ser | Cys | Asp | Lys | Thr | His | Thr | Cys | Pro | Pro |  |
| 465 |     |     |     |     | 470 |     |     |     | 475 |     |     |     | 480 |     |     |  |

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

<210> 232

<211> 698

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#16 chain

<400> 232

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 85  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 90  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 95  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Thr | Phe | Gly | Ala | Gly | Thr | Lys | Leu | Glu | Ile | Lys | Arg | Thr | Val | Ala | Ala |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 105 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 110 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 125 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 135 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 140 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 150 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 155 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 160 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 170 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 175 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 185 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 190 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 195 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 200 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 205 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 210 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 215 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 220 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 225 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 230 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 235 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 240 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Gln | Val | Gln | Leu |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 250 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 255 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | Ala | Ser | Val | Lys | Val |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 260 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 265 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 270 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Ser | Tyr | Trp | Met | Asn | Trp |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 275 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 280 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 285 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Met | Arg | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | Met | Gly | Gly | Ile | Tyr |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 290 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 295 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 300 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Leu | Ser | Gly | Glu | Ser | Thr | Asp | Tyr | Asn | Glu | Lys | Phe | Lys | Gly | Arg | Val |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 305 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 310 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 315 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 320 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Thr | Met | Thr | Val | Asp | Thr | Ser | Thr | Ser | Thr | Val | Tyr | Met | Glu | Leu | Ser |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 325 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 330 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 335 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Thr | Arg | Arg | Gly |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 340 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 345 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 350 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Asp | Tyr | Phe | Gly | Asp | Phe | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 355 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 360 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 365 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 370 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 375 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 380 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 385 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 390 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 395 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 405 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 410 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 415 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 420 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 425 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 430 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 435 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 440 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 445 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 450 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 455 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 460 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lys | Arg | Val | Glu | Pro | Lys | Ser | Cys | Asp | Lys | Thr | His | Thr | Cys | Pro | Pro |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 465 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 470 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 475 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 480 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cys | Pro | Ala | Pro | Glu | Ala | Ala | Gly | Gly | Pro | Ser | Val | Phe | Leu | Phe | Pro |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

<210> 233

<211> 698

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#17 chain

<400> 233

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Thr | Phe | Gly | Ala | Gly | Thr | Lys | Leu | Glu | Ile | Lys | Arg | Thr | Val | Ala | Ala |  |  |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |  |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly |  |  |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |  |  |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala |  |  |
|     |     |     | 130 |     |     |     | 135 |     |     |     | 140 |     |     |     |     |  |  |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln |  |  |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |  |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser |  |  |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |  |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr |  |  |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |  |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser |  |  |
|     |     |     | 195 |     |     |     | 200 |     |     |     |     | 205 |     |     |     |  |  |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser |  |  |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |  |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser |  |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |  |  |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Gln | Val | Gln | Leu |  |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |  |
| Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | Ala | Ser | Val | Lys | Val |  |  |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |  |  |
| Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Ser | Tyr | Trp | Met | Asn | Trp |  |  |
|     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |     |  |  |
| Met | Arg | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | Met | Gly | Gly | Ile | Tyr |  |  |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |  |  |
| Leu | Ser | Gly | Asp | Ser | Thr | Asp | Tyr | Asn | Glu | Lys | Phe | Lys | Gly | Arg | Val |  |  |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |  |
| Thr | Met | Thr | Val | Asp | Thr | Ser | Thr | Ser | Thr | Val | Tyr | Met | Glu | Leu | Ser |  |  |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |  |  |
| Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Thr | Arg | Arg | Gly |  |  |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |  |  |
| Asp | Tyr | Phe | Gly | Asp | Phe | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser |  |  |
|     | 355 |     |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |  |  |
| Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser |  |  |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |  |  |
| Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp |  |  |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     | 400 |     |  |  |
| Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr |  |  |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |  |  |
| Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr |  |  |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |  |  |
| Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln |  |  |
|     | 435 |     |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |  |  |
| Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp |  |  |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |  |  |
| Lys | Arg | Val | Glu | Pro | Lys | Ser | Cys | Asp | Lys | Thr | His | Thr | Cys | Pro | Pro |  |  |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     | 480 |     |  |  |
| Cys | Pro | Ala | Pro | Glu | Ala | Ala | Gly | Gly | Pro | Ser | Val | Phe | Leu | Phe | Pro |  |  |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |  |  |

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr  
 500 505 510  
 Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn  
 515 520 525  
 Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg  
 530 535 540  
 Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val  
 545 550 555 560  
 Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser  
 565 570 575  
 Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys  
 580 585 590  
 Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu  
 595 600 605  
 Glu Met Thr Lys Asn Gln Val Ser Leu Trp Cys Leu Val Lys Gly Phe  
 610 615 620  
 Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu  
 625 630 635 640  
 Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe  
 645 650 655  
 Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly  
 660 665 670  
 Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr  
 675 680 685  
 Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly  
 690 695

<210> 234

<211> 698

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#18 chain

<400> 234

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

|                                                                 |                                     |     |
|-----------------------------------------------------------------|-------------------------------------|-----|
| 100                                                             | 105                                 | 110 |
| Pro Ser Val Phe Ile Phe Pro                                     | Pro Ser Asp Glu Gln Leu Lys Ser Gly |     |
| 115                                                             | 120                                 | 125 |
| Thr Ala Ser Val Val Cys Leu                                     | Leu Asn Asn Phe Tyr Pro Arg Glu Ala |     |
| 130                                                             | 135                                 | 140 |
| Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln |                                     |     |
| 145                                                             | 150                                 | 155 |
| Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser |                                     |     |
| 165                                                             | 170                                 | 175 |
| Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr |                                     |     |
| 180                                                             | 185                                 | 190 |
| Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser |                                     |     |
| 195                                                             | 200                                 | 205 |
| Phe Asn Arg Gly Glu Cys Gly Gly Gly Ser Glu Gly Lys Ser Ser     |                                     |     |
| 210                                                             | 215                                 | 220 |
| Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu Gly Lys Ser Ser Gly Ser |                                     |     |
| 225                                                             | 230                                 | 235 |
| Gly Ser Glu Ser Lys Ser Thr Gly Gly Gly Gly Ser Gln Val Gln Leu |                                     |     |
| 245                                                             | 250                                 | 255 |
| Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val |                                     |     |
| 260                                                             | 265                                 | 270 |
| Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr Trp Met Asn Trp |                                     |     |
| 275                                                             | 280                                 | 285 |
| Met Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly Ile Tyr |                                     |     |
| 290                                                             | 295                                 | 300 |
| Leu Ser Gly Asp Ser Thr Asp Tyr Asn Glu Lys Phe Lys Gly Arg Val |                                     |     |
| 305                                                             | 310                                 | 315 |
| Thr Met Thr Val Asp Thr Ser Thr Ser Thr Val Tyr Met Glu Leu Ser |                                     |     |
| 325                                                             | 330                                 | 335 |
| Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Thr Arg Arg Gly |                                     |     |
| 340                                                             | 345                                 | 350 |
| Asp Tyr Phe Gly Asp Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser |                                     |     |
| 355                                                             | 360                                 | 365 |
| Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser |                                     |     |
| 370                                                             | 375                                 | 380 |
| Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp |                                     |     |
| 385                                                             | 390                                 | 395 |
| Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr |                                     |     |
| 405                                                             | 410                                 | 415 |
| Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr |                                     |     |
| 420                                                             | 425                                 | 430 |
| Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln |                                     |     |
| 435                                                             | 440                                 | 445 |
| Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp |                                     |     |
| 450                                                             | 455                                 | 460 |
| Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro |                                     |     |
| 465                                                             | 470                                 | 475 |
| Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe Pro |                                     |     |
| 485                                                             | 490                                 | 495 |
| Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr |                                     |     |

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| 500                                                             | 505 | 510 |
| Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn |     |     |
| 515                                                             | 520 | 525 |
| Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg |     |     |
| 530                                                             | 535 | 540 |
| Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val |     |     |
| 545                                                             | 550 | 555 |
| Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser |     |     |
| 565                                                             | 570 | 575 |
| Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys |     |     |
| 580                                                             | 585 | 590 |
| Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu |     |     |
| 595                                                             | 600 | 605 |
| Glu Met Thr Lys Asn Gln Val Ser Leu Trp Cys Leu Val Lys Gly Phe |     |     |
| 610                                                             | 615 | 620 |
| Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu |     |     |
| 625                                                             | 630 | 635 |
| Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe |     |     |
| 645                                                             | 650 | 655 |
| Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly |     |     |
| 660                                                             | 665 | 670 |
| Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr |     |     |
| 675                                                             | 680 | 685 |
| Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly                         |     |     |
| 690                                                             | 695 |     |

<210> 235

<211> 698

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#19 chain

<400> 235

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly | 115 | 120 | 125 |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala | 130 | 135 | 140 |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln | 145 | 150 | 155 |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser | 165 | 170 | 175 |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr | 180 | 185 | 190 |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser | 195 | 200 | 205 |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser | 210 | 215 | 220 |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser | 225 | 230 | 235 |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Gln | Val | Gln | Leu | 245 | 250 | 255 |
| Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | Ala | Ser | Val | Lys | Val | 260 | 265 | 270 |
| Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Ser | Tyr | Trp | Met | Asn | Trp | 275 | 280 | 285 |
| Val | Lys | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | Met | Gly | Gly | Ile | Tyr | 290 | 295 | 300 |
| Leu | Ser | Gly | Glu | Ser | Thr | Asp | Tyr | Asn | Glu | Lys | Phe | Lys | Gly | Lys | Ala | 305 | 310 | 315 |
| Thr | Met | Thr | Val | Asp | Thr | Ser | Thr | Ser | Thr | Val | Tyr | Met | Glu | Leu | Ser | 325 | 330 | 335 |
| Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Thr | Arg | Arg | Gly | 340 | 345 | 350 |
| Asp | Tyr | Phe | Gly | Asp | Phe | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser | 355 | 360 | 365 |
| Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser | 370 | 375 | 380 |
| Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp | 385 | 390 | 395 |
| Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr | 405 | 410 | 415 |
| Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr | 420 | 425 | 430 |
| Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln | 435 | 440 | 445 |
| Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp | 450 | 455 | 460 |
| Lys | Arg | Val | Glu | Pro | Lys | Ser | Cys | Asp | Lys | Thr | His | Thr | Cys | Pro | Pro | 465 | 470 | 475 |
| Cys | Pro | Ala | Pro | Glu | Ala | Ala | Gly | Gly | Pro | Ser | Val | Phe | Leu | Phe | Pro | 485 | 490 | 495 |
| Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met | Ile | Ser | Arg | Thr | Pro | Glu | Val | Thr | 500 | 505 | 510 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Val | Val | Val | Asp | Val | Ser | His | Glu | Asp | Pro | Glu | Val | Lys | Phe | Asn |
|     | 515 |     |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |
| Trp | Tyr | Val | Asp | Gly | Val | Glu | Val | His | Asn | Ala | Lys | Thr | Lys | Pro | Arg |
|     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |     |     |     |     |
| Glu | Glu | Gln | Tyr | Asn | Ser | Thr | Tyr | Arg | Val | Val | Ser | Val | Leu | Thr | Val |
| 545 |     |     |     |     | 550 |     |     |     |     | 555 |     |     |     |     | 560 |
| Leu | His | Gln | Asp | Trp | Leu | Asn | Gly | Lys | Glu | Tyr | Lys | Cys | Lys | Val | Ser |
|     |     |     | 565 |     |     |     |     |     | 570 |     |     |     |     | 575 |     |
| Asn | Lys | Ala | Leu | Pro | Ala | Pro | Ile | Glu | Lys | Thr | Ile | Ser | Lys | Ala | Lys |
|     |     | 580 |     |     |     |     |     | 585 |     |     |     |     | 590 |     |     |
| Gly | Gln | Pro | Arg | Glu | Pro | Gln | Val | Tyr | Thr | Leu | Pro | Pro | Ser | Arg | Glu |
|     | 595 |     |     |     |     | 600 |     |     |     |     |     | 605 |     |     |     |
| Glu | Met | Thr | Lys | Asn | Gln | Val | Ser | Leu | Trp | Cys | Leu | Val | Lys | Gly | Phe |
| 610 |     |     |     |     | 615 |     |     |     |     | 620 |     |     |     |     |     |
| Tyr | Pro | Ser | Asp | Ile | Ala | Val | Glu | Trp | Glu | Ser | Asn | Gly | Gln | Pro | Glu |
| 625 |     |     |     |     | 630 |     |     |     |     | 635 |     |     |     |     | 640 |
| Asn | Asn | Tyr | Lys | Thr | Thr | Pro | Pro | Val | Leu | Asp | Ser | Asp | Gly | Ser | Phe |
|     |     |     | 645 |     |     |     |     |     | 650 |     |     |     |     | 655 |     |
| Phe | Leu | Tyr | Ser | Lys | Leu | Thr | Val | Asp | Lys | Ser | Arg | Trp | Gln | Gln | Gly |
|     |     | 660 |     |     |     |     |     | 665 |     |     |     |     | 670 |     |     |
| Asn | Val | Phe | Ser | Cys | Ser | Val | Met | His | Glu | Ala | Leu | His | Asn | His | Tyr |
|     | 675 |     |     |     |     |     | 680 |     |     |     |     | 685 |     |     |     |
| Thr | Gln | Lys | Ser | Leu | Ser | Leu | Ser | Pro | Gly |     |     |     |     |     |     |
|     | 690 |     |     |     |     | 695 |     |     |     |     |     |     |     |     |     |

<210> 236

<211> 698

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#20 chain

<400> 236

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

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| 115                                                             | 120 | 125 |
| Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala |     |     |
| 130                                                             | 135 | 140 |
| Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln |     |     |
| 145                                                             | 150 | 155 |
| Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser |     |     |
| 165                                                             | 170 | 175 |
| Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr |     |     |
| 180                                                             | 185 | 190 |
| Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser |     |     |
| 195                                                             | 200 | 205 |
| Phe Asn Arg Gly Glu Cys Gly Gly Gly Gly Ser Glu Gly Lys Ser Ser |     |     |
| 210                                                             | 215 | 220 |
| Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu Gly Lys Ser Ser Gly Ser |     |     |
| 225                                                             | 230 | 235 |
| Gly Ser Glu Ser Lys Ser Thr Gly Gly Gly Gly Ser Gln Val Gln Leu |     |     |
| 245                                                             | 250 | 255 |
| Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val |     |     |
| 260                                                             | 265 | 270 |
| Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr Trp Met Asn Trp |     |     |
| 275                                                             | 280 | 285 |
| Val Lys Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly Ile Tyr |     |     |
| 290                                                             | 295 | 300 |
| Leu Ser Gly Asp Ser Thr Asp Tyr Asn Glu Lys Phe Lys Gly Lys Ala |     |     |
| 305                                                             | 310 | 315 |
| Thr Met Thr Val Asp Thr Ser Thr Ser Thr Val Tyr Met Glu Leu Ser |     |     |
| 325                                                             | 330 | 335 |
| Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Thr Arg Arg Gly |     |     |
| 340                                                             | 345 | 350 |
| Asp Tyr Phe Gly Asp Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser |     |     |
| 355                                                             | 360 | 365 |
| Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser |     |     |
| 370                                                             | 375 | 380 |
| Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp |     |     |
| 385                                                             | 390 | 395 |
| Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr |     |     |
| 405                                                             | 410 | 415 |
| Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr |     |     |
| 420                                                             | 425 | 430 |
| Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln |     |     |
| 435                                                             | 440 | 445 |
| Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp |     |     |
| 450                                                             | 455 | 460 |
| Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro |     |     |
| 465                                                             | 470 | 475 |
| Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe Pro |     |     |
| 485                                                             | 490 | 495 |
| Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr |     |     |
| 500                                                             | 505 | 510 |
| Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn |     |     |

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| 515                                                             | 520 | 525 |
| Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg |     |     |
| 530                                                             | 535 | 540 |
| Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val |     |     |
| 545                                                             | 550 | 555 |
| Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser |     |     |
| 565                                                             | 570 | 575 |
| Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys |     |     |
| 580                                                             | 585 | 590 |
| Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu |     |     |
| 595                                                             | 600 | 605 |
| Glu Met Thr Lys Asn Gln Val Ser Leu Trp Cys Leu Val Lys Gly Phe |     |     |
| 610                                                             | 615 | 620 |
| Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu |     |     |
| 625                                                             | 630 | 635 |
| Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe |     |     |
| 645                                                             | 650 | 655 |
| Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly |     |     |
| 660                                                             | 665 | 670 |
| Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr |     |     |
| 675                                                             | 680 | 685 |
| Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly                         |     |     |
| 690                                                             | 695 |     |

<210> 237

<211> 698

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#21 chain

<400> 237

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly |     |     |
| 1                                                               | 5   | 10  |
| Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr |     |     |
| 20                                                              | 25  | 30  |
| Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile |     |     |
| 35                                                              | 40  | 45  |
| Tyr Ser Ala Ser Asn Arg Tyr Asp Gly Val Pro Ser Arg Phe Ser Gly |     |     |
| 50                                                              | 55  | 60  |
| Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro |     |     |
| 65                                                              | 70  | 75  |
| Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Tyr Ile Ser Tyr Pro Leu |     |     |
| 85                                                              | 90  | 95  |
| Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala |     |     |
| 100                                                             | 105 | 110 |
| Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly |     |     |
| 115                                                             | 120 | 125 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala | 130 | 135 | 140 |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln | 145 | 150 | 155 |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser | 165 | 170 | 175 |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr | 180 | 185 | 190 |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser | 195 | 200 | 205 |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser | 210 | 215 | 220 |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser | 225 | 230 | 235 |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Gln | Val | Gln | Leu | 245 | 250 | 255 |
| Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | Ala | Ser | Val | Lys | Val | 260 | 265 | 270 |
| Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Ser | Tyr | Trp | Met | Asn | Trp | 275 | 280 | 285 |
| Met | Lys | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | Ile | Gly | Gly | Ile | Tyr | 290 | 295 | 300 |
| Leu | Ser | Gly | Glu | Ser | Thr | Asp | Tyr | Asn | Glu | Lys | Phe | Lys | Gly | Lys | Val | 305 | 310 | 315 |
| Thr | Met | Thr | Val | Asp | Thr | Ser | Thr | Ser | Thr | Val | Tyr | Met | Glu | Leu | Ser | 325 | 330 | 335 |
| Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Thr | Arg | Arg | Gly | 340 | 345 | 350 |
| Asp | Tyr | Phe | Gly | Asp | Phe | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser | 355 | 360 | 365 |
| Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser | 370 | 375 | 380 |
| Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp | 385 | 390 | 395 |
| Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr | 405 | 410 | 415 |
| Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr | 420 | 425 | 430 |
| Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln | 435 | 440 | 445 |
| Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp | 450 | 455 | 460 |
| Lys | Arg | Val | Glu | Pro | Lys | Ser | Cys | Asp | Lys | Thr | His | Thr | Cys | Pro | Pro | 465 | 470 | 475 |
| Cys | Pro | Ala | Pro | Glu | Ala | Ala | Gly | Gly | Pro | Ser | Val | Phe | Leu | Phe | Pro | 485 | 490 | 495 |
| Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met | Ile | Ser | Arg | Thr | Pro | Glu | Val | Thr | 500 | 505 | 510 |
| Cys | Val | Val | Val | Asp | Val | Ser | His | Glu | Asp | Pro | Glu | Val | Lys | Phe | Asn | 515 | 520 | 525 |

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg  
 530 535 540  
 Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val  
 545 550 555 560  
 Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser  
 565 570 575  
 Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys  
 580 585 590  
 Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu  
 595 600 605  
 Glu Met Thr Lys Asn Gln Val Ser Leu Trp Cys Leu Val Lys Gly Phe  
 610 615 620  
 Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu  
 625 630 635 640  
 Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe  
 645 650 655  
 Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly  
 660 665 670  
 Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr  
 675 680 685  
 Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly  
 690 695

<210> 238

<211> 698

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#22 chain

<400> 238

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr  
 20 25 30  
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile  
 35 40 45  
 Tyr Ser Ala Ser Asn Arg Tyr Asp Ala Val Pro Ser Arg Phe Ser Gly  
 50 55 60  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 65 70 75 80  
 Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Tyr Ile Ser Tyr Pro Leu  
 85 90 95  
 Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala  
 100 105 110  
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly  
 115 120 125  
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 130 |     |     |     | 135 |     |     |     | 140 |     |     |     |     |     |     |     |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln |
| 145 |     |     |     | 150 |     |     |     | 155 |     |     |     | 160 |     |     |     |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser |
| 165 |     |     |     | 170 |     |     |     | 175 |     |     |     |     |     |     |     |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr |
| 180 |     |     |     | 185 |     |     |     | 190 |     |     |     |     |     |     |     |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser |
| 195 |     |     |     | 200 |     |     |     | 205 |     |     |     |     |     |     |     |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser |
| 210 |     |     |     | 215 |     |     |     | 220 |     |     |     |     |     |     |     |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser |
| 225 |     |     |     | 230 |     |     |     | 235 |     |     |     |     |     |     |     |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Gln | Val | Gln | Leu |
| 245 |     |     |     | 250 |     |     |     | 255 |     |     |     |     |     |     |     |
| Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | Ala | Ser | Val | Lys | Val |
| 260 |     |     |     | 265 |     |     |     | 270 |     |     |     |     |     |     |     |
| Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Ser | Tyr | Trp | Met | Asn | Trp |
| 275 |     |     |     | 280 |     |     |     | 285 |     |     |     |     |     |     |     |
| Met | Lys | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | Ile | Gly | Gly | Ile | Tyr |
| 290 |     |     |     | 295 |     |     |     | 300 |     |     |     |     |     |     |     |
| Leu | Ser | Gly | Asp | Ser | Thr | Asp | Tyr | Asn | Glu | Lys | Phe | Lys | Gly | Lys | Val |
| 305 |     |     |     | 310 |     |     |     | 315 |     |     |     | 320 |     |     |     |
| Thr | Met | Thr | Val | Asp | Thr | Ser | Thr | Ser | Thr | Val | Tyr | Met | Glu | Leu | Ser |
| 325 |     |     |     | 330 |     |     |     | 335 |     |     |     |     |     |     |     |
| Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Thr | Arg | Arg | Gly |
| 340 |     |     |     | 345 |     |     |     | 350 |     |     |     |     |     |     |     |
| Asp | Tyr | Phe | Gly | Asp | Phe | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser |
| 355 |     |     |     | 360 |     |     |     | 365 |     |     |     |     |     |     |     |
| Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser |
| 370 |     |     |     | 375 |     |     |     | 380 |     |     |     |     |     |     |     |
| Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp |
| 385 |     |     |     | 390 |     |     |     | 395 |     |     |     | 400 |     |     |     |
| Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr |
| 405 |     |     |     | 410 |     |     |     | 415 |     |     |     |     |     |     |     |
| Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr |
| 420 |     |     |     | 425 |     |     |     | 430 |     |     |     |     |     |     |     |
| Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln |
| 435 |     |     |     | 440 |     |     |     | 445 |     |     |     |     |     |     |     |
| Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp |
| 450 |     |     |     | 455 |     |     |     | 460 |     |     |     |     |     |     |     |
| Lys | Arg | Val | Glu | Pro | Lys | Ser | Cys | Asp | Lys | Thr | His | Thr | Cys | Pro | Pro |
| 465 |     |     |     | 470 |     |     |     | 475 |     |     |     | 480 |     |     |     |
| Cys | Pro | Ala | Pro | Glu | Ala | Ala | Gly | Gly | Pro | Ser | Val | Phe | Leu | Phe | Pro |
| 485 |     |     |     | 490 |     |     |     | 495 |     |     |     |     |     |     |     |
| Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met | Ile | Ser | Arg | Thr | Pro | Glu | Val | Thr |
| 500 |     |     |     | 505 |     |     |     | 510 |     |     |     |     |     |     |     |
| Cys | Val | Val | Val | Asp | Val | Ser | His | Glu | Asp | Pro | Glu | Val | Lys | Phe | Asn |
| 515 |     |     |     | 520 |     |     |     | 525 |     |     |     |     |     |     |     |
| Trp | Tyr | Val | Asp | Gly | Val | Glu | Val | His | Asn | Ala | Lys | Thr | Lys | Pro | Arg |

|                                                                 |                         |     |
|-----------------------------------------------------------------|-------------------------|-----|
| 530                                                             | 535                     | 540 |
| Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val                         | Val Ser Val Leu Thr Val |     |
| 545                                                             | 550                     | 555 |
| Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser |                         | 560 |
|                                                                 | 565                     | 570 |
| Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys |                         | 575 |
|                                                                 | 580                     | 585 |
| Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu |                         | 590 |
|                                                                 | 595                     | 600 |
| Glu Met Thr Lys Asn Gln Val Ser Leu Trp Cys Leu Val Lys Gly Phe |                         | 605 |
|                                                                 | 610                     | 615 |
| Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu |                         | 620 |
| 625                                                             | 630                     | 635 |
| Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe |                         | 640 |
|                                                                 | 645                     | 650 |
| Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly |                         | 655 |
|                                                                 | 660                     | 665 |
| Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr |                         | 670 |
|                                                                 | 675                     | 680 |
| Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly                         |                         | 685 |
|                                                                 | 690                     | 695 |

<210> 239

<211> 698

<212> PRT

<213> Artificial Sequence

<220>

<223> B7H6#23 chain

<400> 239

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly |     |     |
| 1                                                               | 5   | 10  |
| Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Lys Tyr |     | 15  |
|                                                                 | 20  | 25  |
| Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile |     | 30  |
|                                                                 | 35  | 40  |
| Tyr Ser Ala Ser Asn Arg Tyr Asp Ala Val Pro Ser Arg Phe Ser Gly |     | 45  |
|                                                                 | 50  | 55  |
| Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro |     | 60  |
| 65                                                              | 70  | 75  |
| Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Tyr Ile Ser Tyr Pro Leu |     | 80  |
|                                                                 | 85  | 90  |
| Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala |     | 95  |
|                                                                 | 100 | 105 |
| Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly |     | 110 |
|                                                                 | 115 | 120 |
| Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala |     | 125 |
|                                                                 | 130 | 135 |
|                                                                 |     | 140 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln | 145 | 150 | 155 | 160 |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser | 165 | 170 | 175 |     |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr | 180 | 185 | 190 |     |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser | 195 | 200 | 205 |     |
| Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser | Glu | Gly | Lys | Ser | Ser | 210 | 215 | 220 |     |
| Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | Lys | Ser | Ser | Gly | Ser | 225 | 230 | 235 | 240 |
| Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | Ser | Gln | Val | Gln | Leu | 245 | 250 | 255 |     |
| Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | Ala | Ser | Val | Lys | Val | 260 | 265 | 270 |     |
| Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Ser | Tyr | Trp | Met | Asn | Trp | 275 | 280 | 285 |     |
| Met | Lys | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | Ile | Gly | Gly | Ile | Tyr | 290 | 295 | 300 |     |
| Leu | Ser | Gly | Glu | Ser | Thr | Asp | Tyr | Asn | Glu | Lys | Phe | Lys | Gly | Lys | Val | 305 | 310 | 315 | 320 |
| Thr | Met | Thr | Val | Asp | Thr | Ser | Thr | Ser | Thr | Val | Tyr | Met | Glu | Leu | Ser | 325 | 330 | 335 |     |
| Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Thr | Arg | Arg | Gly | 340 | 345 | 350 |     |
| Asp | Tyr | Phe | Gly | Asp | Phe | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser | 355 | 360 | 365 |     |
| Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser | 370 | 375 | 380 |     |
| Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp | 385 | 390 | 395 | 400 |
| Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr | 405 | 410 | 415 |     |
| Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr | 420 | 425 | 430 |     |
| Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln | 435 | 440 | 445 |     |
| Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp | 450 | 455 | 460 |     |
| Lys | Arg | Val | Glu | Pro | Lys | Ser | Cys | Asp | Lys | Thr | His | Thr | Cys | Pro | Pro | 465 | 470 | 475 | 480 |
| Cys | Pro | Ala | Pro | Glu | Ala | Ala | Gly | Gly | Pro | Ser | Val | Phe | Leu | Phe | Pro | 485 | 490 | 495 |     |
| Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met | Ile | Ser | Arg | Thr | Pro | Glu | Val | Thr | 500 | 505 | 510 |     |
| Cys | Val | Val | Val | Asp | Val | Ser | His | Glu | Asp | Pro | Glu | Val | Lys | Phe | Asn | 515 | 520 | 525 |     |
| Trp | Tyr | Val | Asp | Gly | Val | Glu | Val | His | Asn | Ala | Lys | Thr | Lys | Pro | Arg | 530 | 535 | 540 |     |



|                                                                 |                                                 |         |     |     |  |     |
|-----------------------------------------------------------------|-------------------------------------------------|---------|-----|-----|--|-----|
| 145                                                             |                                                 | 150     |     | 155 |  | 160 |
| Glu Ser Val Thr                                                 | Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser         | Leu Ser |     |     |  |     |
|                                                                 | 165                                             | 170     | 175 |     |  |     |
| Ser Thr Leu Thr                                                 | Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr |         |     |     |  |     |
|                                                                 | 180                                             | 185     | 190 |     |  |     |
| Ala Cys Glu Val Thr                                             | His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser     |         |     |     |  |     |
|                                                                 | 195                                             | 200     | 205 |     |  |     |
| Phe Asn Arg Gly Glu Cys Gly Gly Gly Gly Ser Glu Gly Lys Ser Ser |                                                 |         |     |     |  |     |
|                                                                 | 210                                             | 215     | 220 |     |  |     |
| Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu Gly Lys Ser Ser Gly Ser |                                                 |         |     |     |  |     |
| 225                                                             | 230                                             | 235     | 240 |     |  |     |
| Gly Ser Glu Ser Lys Ser Thr Gly Gly Gly Gly Ser Gln Val Gln Leu |                                                 |         |     |     |  |     |
|                                                                 | 245                                             | 250     | 255 |     |  |     |
| Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val |                                                 |         |     |     |  |     |
|                                                                 | 260                                             | 265     | 270 |     |  |     |
| Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr Trp Met Asn Trp |                                                 |         |     |     |  |     |
|                                                                 | 275                                             | 280     | 285 |     |  |     |
| Met Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly Ile Tyr |                                                 |         |     |     |  |     |
|                                                                 | 290                                             | 295     | 300 |     |  |     |
| Leu Ser Gly Asp Ser Thr Asp Tyr Asn Glu Lys Phe Lys Gly Arg Val |                                                 |         |     |     |  |     |
| 305                                                             | 310                                             | 315     | 320 |     |  |     |
| Thr Met Thr Val Asp Thr Ser Thr Ser Thr Val Tyr Met Glu Leu Ser |                                                 |         |     |     |  |     |
|                                                                 | 325                                             | 330     | 335 |     |  |     |
| Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Thr Arg Arg Gly |                                                 |         |     |     |  |     |
|                                                                 | 340                                             | 345     | 350 |     |  |     |
| Asp Tyr Phe Gly Asp Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser |                                                 |         |     |     |  |     |
|                                                                 | 355                                             | 360     | 365 |     |  |     |
| Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser |                                                 |         |     |     |  |     |
|                                                                 | 370                                             | 375     | 380 |     |  |     |
| Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp |                                                 |         |     |     |  |     |
| 385                                                             | 390                                             | 395     | 400 |     |  |     |
| Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr |                                                 |         |     |     |  |     |
|                                                                 | 405                                             | 410     | 415 |     |  |     |
| Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr |                                                 |         |     |     |  |     |
|                                                                 | 420                                             | 425     | 430 |     |  |     |
| Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln |                                                 |         |     |     |  |     |
|                                                                 | 435                                             | 440     | 445 |     |  |     |
| Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp |                                                 |         |     |     |  |     |
|                                                                 | 450                                             | 455     | 460 |     |  |     |
| Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro |                                                 |         |     |     |  |     |
| 465                                                             | 470                                             | 475     | 480 |     |  |     |
| Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe Pro |                                                 |         |     |     |  |     |
|                                                                 | 485                                             | 490     | 495 |     |  |     |
| Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr |                                                 |         |     |     |  |     |
|                                                                 | 500                                             | 505     | 510 |     |  |     |
| Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn |                                                 |         |     |     |  |     |
|                                                                 | 515                                             | 520     | 525 |     |  |     |
| Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg |                                                 |         |     |     |  |     |
|                                                                 | 530                                             | 535     | 540 |     |  |     |
| Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val |                                                 |         |     |     |  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 545 |     | 550 |     | 555 |     | 560 |     |     |     |     |     |     |     |     |     |
| Leu | His | Gln | Asp | Trp | Leu | Asn | Gly | Lys | Glu | Tyr | Lys | Cys | Lys | Val | Ser |
|     |     | 565 |     | 570 |     | 575 |     |     |     |     |     |     |     |     |     |
| Asn | Lys | Ala | Leu | Pro | Ala | Pro | Ile | Glu | Lys | Thr | Ile | Ser | Lys | Ala | Lys |
|     |     | 580 |     | 585 |     | 590 |     |     |     |     |     |     |     |     |     |
| Gly | Gln | Pro | Arg | Glu | Pro | Gln | Val | Tyr | Thr | Leu | Pro | Pro | Ser | Arg | Glu |
|     |     | 595 |     | 600 |     | 605 |     |     |     |     |     |     |     |     |     |
| Glu | Met | Thr | Lys | Asn | Gln | Val | Ser | Leu | Trp | Cys | Leu | Val | Lys | Gly | Phe |
|     |     | 610 |     | 615 |     | 620 |     |     |     |     |     |     |     |     |     |
| Tyr | Pro | Ser | Asp | Ile | Ala | Val | Glu | Trp | Glu | Ser | Asn | Gly | Gln | Pro | Glu |
| 625 |     |     |     | 630 |     | 635 |     |     |     |     |     |     |     |     |     |
| Asn | Asn | Tyr | Lys | Thr | Thr | Pro | Pro | Val | Leu | Asp | Ser | Asp | Gly | Ser | Phe |
|     |     | 645 |     | 650 |     | 655 |     |     |     |     |     |     |     |     |     |
| Phe | Leu | Tyr | Ser | Lys | Leu | Thr | Val | Asp | Lys | Ser | Arg | Trp | Gln | Gln | Gly |
|     |     | 660 |     | 665 |     | 670 |     |     |     |     |     |     |     |     |     |
| Asn | Val | Phe | Ser | Cys | Ser | Val | Met | His | Glu | Ala | Leu | His | Asn | His | Tyr |
|     |     | 675 |     | 680 |     | 685 |     |     |     |     |     |     |     |     |     |
| Thr | Gln | Lys | Ser | Leu | Ser | Leu | Ser | Pro | Gly |     |     |     |     |     |     |
| 690 |     |     |     | 695 |     |     |     |     |     |     |     |     |     |     |     |

<210> 241

<211> 226

<212> PRT

<213> Artificial Sequence

<220>

<223> Fc domain\* (IgG1)

<400> 241

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Lys | Thr | His | Thr | Cys | Pro | Pro | Cys | Pro | Ala | Pro | Glu | Leu | Leu | Gly |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Gly | Pro | Ser | Val | Phe | Leu | Phe | Pro | Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ile | Ser | Arg | Thr | Pro | Glu | Val | Thr | Cys | Val | Val | Val | Asp | Val | Ser | His |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Glu | Asp | Pro | Glu | Val | Lys | Phe | Asn | Trp | Tyr | Val | Asp | Gly | Val | Glu | Val |
|     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| His | Asn | Ala | Lys | Thr | Lys | Pro | Arg | Glu | Glu | Gln | Tyr | Asn | Ser | Thr | Tyr |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Arg | Val | Val | Ser | Val | Leu | Thr | Val | Leu | His | Gln | Asp | Trp | Leu | Asn | Gly |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Lys | Glu | Tyr | Lys | Cys | Lys | Val | Ser | Asn | Lys | Ala | Leu | Pro | Ala | Pro | Ile |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Lys | Thr | Ile | Ser | Lys | Ala | Lys | Gly | Gln | Pro | Arg | Glu | Pro | Gln | Val |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Tyr | Thr | Leu | Pro | Pro | Ser | Arg | Glu | Glu | Met | Thr | Lys | Asn | Gln | Val | Ser |
|     |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Thr | Cys | Leu | Val | Lys | Gly | Phe | Tyr | Pro | Ser | Asp | Ile | Ala | Val | Glu |
| 145 |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     | 160 |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Glu | Ser | Asn | Gly | Gln | Pro | Glu | Asn | Asn | Tyr | Lys | Thr | Thr | Pro | Pro |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Val | Leu | Asp | Ser | Asp | Gly | Ser | Phe | Phe | Leu | Tyr | Ser | Lys | Leu | Thr | Val |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Asp | Lys | Ser | Arg | Trp | Gln | Gln | Gly | Asn | Val | Phe | Ser | Cys | Ser | Val | Met |
|     |     | 195 |     |     |     |     | 200 |     |     |     | 205 |     |     |     |     |
| His | Glu | Ala | Leu | His | Asn | His | Tyr | Thr | Gln | Lys | Ser | Leu | Ser | Leu | Ser |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Pro | Gly |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 225 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 242

<211> 226

<212> PRT

<213> Artificial Sequence

<220>

<223> Fc W domain (IgG1, LALA)

<400> 242

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Lys | Thr | His | Thr | Cys | Pro | Pro | Cys | Pro | Ala | Pro | Glu | Ala | Ala | Gly |
| 1   |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Gly | Pro | Ser | Val | Phe | Leu | Phe | Pro | Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ile | Ser | Arg | Thr | Pro | Glu | Val | Thr | Cys | Val | Val | Val | Asp | Val | Ser | His |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Glu | Asp | Pro | Glu | Val | Lys | Phe | Asn | Trp | Tyr | Val | Asp | Gly | Val | Glu | Val |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| His | Asn | Ala | Lys | Thr | Lys | Pro | Arg | Glu | Glu | Gln | Tyr | Asn | Ser | Thr | Tyr |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Arg | Val | Val | Ser | Val | Leu | Thr | Val | Leu | His | Gln | Asp | Trp | Leu | Asn | Gly |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Lys | Glu | Tyr | Lys | Cys | Lys | Val | Ser | Asn | Lys | Ala | Leu | Pro | Ala | Pro | Ile |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Glu | Lys | Thr | Ile | Ser | Lys | Ala | Lys | Gly | Gln | Pro | Arg | Glu | Pro | Gln | Val |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Tyr | Thr | Leu | Pro | Pro | Ser | Arg | Glu | Glu | Met | Thr | Lys | Asn | Gln | Val | Ser |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Trp | Cys | Leu | Val | Lys | Gly | Phe | Tyr | Pro | Ser | Asp | Ile | Ala | Val | Glu |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Trp | Glu | Ser | Asn | Gly | Gln | Pro | Glu | Asn | Asn | Tyr | Lys | Thr | Thr | Pro | Pro |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Val | Leu | Asp | Ser | Asp | Gly | Ser | Phe | Phe | Leu | Tyr | Ser | Lys | Leu | Thr | Val |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Asp | Lys | Ser | Arg | Trp | Gln | Gln | Gly | Asn | Val | Phe | Ser | Cys | Ser | Val | Met |
|     |     | 195 |     |     |     |     | 200 |     |     |     | 205 |     |     |     |     |
| His | Glu | Ala | Leu | His | Asn | His | Tyr | Thr | Gln | Lys | Ser | Leu | Ser | Leu | Ser |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Pro | Gly |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

225

<210> 243

<211> 226

<212> PRT

<213> Artificial Sequence

<220>

<223> Fc, SAV domain (IgG1, RF/LALA)

<400> 243

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly  
1                  5                  10                  15  
Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met  
                  20                  25                  30  
Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His  
                  35                  40                  45  
Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val  
                  50                  55                  60  
His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr  
65                  70                  75                  80  
Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly  
                  85                  90                  95  
Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile  
                  100                  105                  110  
Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val  
                  115                  120                  125  
Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser  
                  130                  135                  140  
Leu Ser Cys Ala Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu  
145                  150                  155                  160  
Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro  
                  165                  170                  175  
Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Val Ser Lys Leu Thr Val  
                  180                  185                  190  
Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met  
                  195                  200                  205  
His Glu Ala Leu His Asn Arg Phe Thr Gln Lys Ser Leu Ser Leu Ser  
                  210                  215                  220  
Pro Gly  
225

<210> 244

<211> 228

<212> PRT

<213> Artificial Sequence

<220>

<223> Fc domain (IgG4Pro)

<400> 244

Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe  
1 5 10 15  
Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr  
20 25 30  
Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val  
35 40 45  
Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val  
50 55 60  
Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser  
65 70 75 80  
Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu  
85 90 95  
Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser  
100 105 110  
Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro  
115 120 125  
Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln  
130 135 140  
Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala  
145 150 155 160  
Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr  
165 170 175  
Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu  
180 185 190  
Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser  
195 200 205  
Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser  
210 215 220  
Leu Ser Leu Gly  
225

<210> 245

<211> 228

<212> PRT

<213> Artificial Sequence

<220>

<223> Fc W domain (IgG4Pro)

<400> 245

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

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

<210> 246

<211> 228

<212> PRT

<213> Artificial Sequence

<220>

<223> Fc SAV domain (IgG4Pro, RF)

<400> 246

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

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| 115                                                             | 120 | 125 |
| Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln |     |     |
| 130                                                             | 135 | 140 |
| Val Ser Leu Ser Cys Ala Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala |     |     |
| 145                                                             | 150 | 155 |
| Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr |     |     |
| 165                                                             | 170 | 175 |
| Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Val Ser Arg Leu |     |     |
| 180                                                             | 185 | 190 |
| Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser |     |     |
| 195                                                             | 200 | 205 |
| Val Met His Glu Ala Leu His Asn Arg Phe Thr Gln Lys Ser Leu Ser |     |     |
| 210                                                             | 215 | 220 |
| Leu Ser Leu Gly                                                 |     |     |
| 225                                                             |     |     |

<210> 247  
 <211> 107  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> constant region of a kappa light chain

|                                                                 |
|-----------------------------------------------------------------|
| <400> 247                                                       |
| Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu |
| 1 5 10 15                                                       |
| Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe |
| 20 25 30                                                        |
| Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln |
| 35 40 45                                                        |
| Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser |
| 50 55 60                                                        |
| Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu |
| 65 70 75 80                                                     |
| Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser |
| 85 90 95                                                        |
| Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys                     |
| 100 105                                                         |

<210> 248  
 <211> 106  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> constant region of a lambda light chain

<400> 248

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

<210> 249

<211> 103

<212> PRT

<213> Artificial Sequence

<220>

<223> Constant region of heavy chain CH1

<400> 249

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

<210> 250

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker

<400> 250

Gly Gly Gly Gly Ser Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser  
1 5 10 15  
Lys Ser Thr Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser  
20 25 30  
Thr Gly Gly Gly Gly Ser  
35

<210> 251

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker

<400> 251

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Ser Gly Gly Ser  
1 5 10 15  
Gly Gly Gly Gly Gly Ser  
20

<210> 252

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker

<400> 252

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
1 5 10 15  
Gly Gly Gly Ser Gly Gly Gly Gly Gly Ser  
20 25

<210> 253

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker

<400> 253

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

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Ser  
20 25 30

<210> 254

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker

<400> 254

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
1 5 10 15  
Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
20 25 30  
Gly Ser

<210> 255

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker

<400> 255

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
1 5 10 15  
Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
20 25 30  
Gly Gly Gly Gly Gly Ser  
35

<210> 256

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker

<400> 256

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

Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly  
                   20                  25                  30  
 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser  
                   35                  40

<210> 257  
 <211> 14  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CD3#1 LCCDR1

<400> 257  
 Arg Ser Ser Thr Gly Ala Val Thr Thr Ser Asn Tyr Ala Asn  
 1                  5                  10

<210> 258  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CD3#1 LCCDR2

<400> 258  
 Gly Thr Asn Lys Arg Ala Pro  
 1                  5

<210> 259  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CD3#1 LCCDR3

<400> 259  
 Ala Leu Trp Tyr Ser Asn Leu Trp Val  
 1                  5

<210> 260  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> CD3#1 HCCDR1

<400> 260

Gly Phe Thr Phe Asn Thr Tyr Ala Met Asn

1 5 10

<210> 261

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#1 HCCDR2

<400> 261

Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser

1 5 10 15

Val Lys Asp

<210> 262

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#1 HCCDR3

<400> 262

His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe Ala Tyr

1 5 10

<210> 263

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#2 LCCDR1

<400> 263

Lys Ser Ser Gln Ser Leu Leu Asn Ser Arg Thr Arg Lys Asn Tyr Leu

1 5 10 15

Ala

<210> 264  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CD3#2 LCCDR2

<400> 264  
Trp Ala Ser Thr Arg Glu Ser  
1 5

<210> 265  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CD3#2 LCCDR3

<400> 265  
Lys Gln Ser Phe Ile Leu Arg Thr  
1 5

<210> 266  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CD3#2 HCCDR1

<400> 266  
Gly Tyr Ser Phe Thr Asp Tyr Tyr Val His  
1 5 10

<210> 267  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CD3#2 HCCDR2

<400> 267

Trp Ile Tyr Pro Gly Asn Gly Asn Ile Lys Tyr Asn Glu Arg Phe Arg  
1 5 10 15  
Gly

<210> 268

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#2 HCCDR3

<400> 268

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

<210> 269

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#3 LCCDR1

<400> 269

Lys Ser Ser Gln Ser Leu Leu Asn Ser Arg Thr Arg Lys Val Tyr Leu  
1 5 10 15  
Ala

<210> 270

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#3 LCCDR2

<400> 270

Trp Ala Ser Thr Arg Glu Ser  
1 5

<210> 271

<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CD3#3 LCCDR3

<400> 271  
Lys Gln Ser Phe Ile Leu Arg Thr  
1 5

<210> 272  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CD3#3 HCCDR1

<400> 272  
Gly Tyr Thr Phe Thr Ser Tyr Tyr Val His  
1 5 10

<210> 273  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CD3#3 HCCDR2

<400> 273  
Trp Ile Tyr Pro Gly Gly Gly Asn Ile Lys Tyr Ala Gln Lys Phe Gln  
1 5 10 15  
Gly

<210> 274  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CD3#3 HCCDR3

<400> 274

Asp Gln Tyr Ser Ala Tyr Tyr Phe Ala Tyr

1 5 10

<210> 275

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#4 LCCDR1

<400> 275

Lys Ser Ser Gln Ser Leu Leu Asn Ser Arg Thr Arg Lys Val Tyr Leu

1 5 10 15

Ala

<210> 276

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#4 LCCDR2

<400> 276

Trp Ala Ser Thr Arg Glu Ser

1 5

<210> 277

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#4 LCCDR3

<400> 277

Lys Gln Ser Phe Ile Leu Arg Thr

1 5

<210> 278

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#4 HCCDR1

<400> 278

Gly Tyr Ser Phe Thr Ser Tyr Tyr Val His  
1 5 10

<210> 279

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#4 HCCDR2

<400> 279

Trp Ile Tyr Pro Gly Gly Gly Asn Ile Lys Tyr Asn Gln Lys Phe Gln  
1 5 10 15  
Gly

<210> 280

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#4 HCCDR3

<400> 280

Asp His Tyr Ser Ala Tyr Tyr Phe Ala Tyr  
1 5 10

<210> 281

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#5 LCCDR1

<400> 281

Lys Ser Ser Gln Ser Leu Leu Asn Ser Arg Thr Arg Lys Thr Tyr Leu  
1 5 10 15

Ala

<210> 282

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#5 LCCDR2

<400> 282

Trp Ala Ser Thr Arg Glu Ser

1 5

<210> 283

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#5 LCCDR3

<400> 283

Lys Gln Ser Phe Ile Leu Arg Thr

1 5

<210> 284

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#5 HCCDR1

<400> 284

Gly Tyr Thr Phe Thr Gly Tyr Tyr Val His

1 5 10

<210> 285

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#5 HCCDR2

<400> 285

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

<210> 286

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#5 HCCDR3

<400> 286

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

<210> 287

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#6 LCCDR1

<400> 287

Lys Ser Ser Gln Ser Leu Leu Asn Ser Arg Thr Arg Lys Thr Tyr Leu  
1 5 10 15  
Ala

<210> 288

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#6 LCCDR2

<400> 288

Trp Ala Ser Thr Arg Glu Ser  
1 5

<210> 289  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CD3#6 LCCDR3

<400> 289  
Lys Gln Ser Phe Ile Leu Arg Thr  
1 5

<210> 290  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CD3#6 HCCDR1

<400> 290  
Gly Tyr Thr Phe Thr Ser Tyr Tyr Val His  
1 5 10

<210> 291  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CD3#6 HCCDR2

<400> 291  
Trp Ile Tyr Pro Gly Gly Gly Asn Ile Lys Tyr Ala Gln Lys Phe Gln  
1 5 10 15  
Gly

<210> 292  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>

<223> CD3#6 HCCDR3

<400> 292

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

<210> 293

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#1 VL

<400> 293

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

<210> 294

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#1 VH

<400> 294

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15  
Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Thr Tyr  
20 25 30  
Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45  
Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp  
50 55 60  
Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65  |     | 70  |     | 75  |     | 80  |     |     |     |     |     |     |     |     |     |
| Ala | Tyr | Leu | Gln | Met | Asn | Asn | Leu | Lys | Thr | Glu | Asp | Thr | Ala | Val | Tyr |
|     |     | 85  |     |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Tyr | Cys | Val | Arg | His | Gly | Asn | Phe | Gly | Asn | Ser | Tyr | Val | Ser | Trp | Phe |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     |     | 110 |     |
| Ala | Tyr | Trp | Gly | Gln | Gly | Thr | Leu | Val | Thr | Val | Ser | Ala |     |     |     |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |

<210> 295  
 <211> 112  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CD3#2 VL

|       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> | 295 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Asp   | Ile | Val | Met | Thr | Gln | Ser | Pro | Asp | Ser | Leu | Ala | Val | Ser | Leu | Gly |
| 1     | 5   | 10  | 15  |     |     |     |     |     |     |     |     |     |     |     |     |
| Glu   | Arg | Ala | Thr | Ile | Asn | Cys | Lys | Ser | Ser | Gln | Ser | Leu | Leu | Asn | Ser |
|       | 20  | 25  | 30  |     |     |     |     |     |     |     |     |     |     |     |     |
| Arg   | Thr | Arg | Lys | Asn | Tyr | Leu | Ala | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Gln |
|       | 35  | 40  | 45  |     |     |     |     |     |     |     |     |     |     |     |     |
| Pro   | Pro | Lys | 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 | Gly | Thr | Asp | Phe | Thr | Leu | Thr |
| 65    | 70  | 75  | 80  |     |     |     |     |     |     |     |     |     |     |     |     |
| Ile   | Ser | Ser | Leu | Gln | Ala | Glu | Asp | Val | Ala | Val | Tyr | Tyr | Cys | Lys | Gln |
|       | 85  | 90  | 95  |     |     |     |     |     |     |     |     |     |     |     |     |
| Ser   | Phe | Ile | Leu | Arg | Thr | Phe | Gly | Gln | Gly | Thr | Lys | Leu | Glu | Ile | Lys |
|       | 100 | 105 | 110 |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 296  
 <211> 119  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CD3#2 VH

|       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> | 296 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Gln   | Val | Gln | Leu | Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | Ala |
| 1     | 5   | 10  | 15  |     |     |     |     |     |     |     |     |     |     |     |     |
| Ser   | Val | Lys | Val | Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Ser | Phe | Thr | Asp | Tyr |
|       | 20  | 25  | 30  |     |     |     |     |     |     |     |     |     |     |     |     |
| Tyr   | Val | His | Trp | Val | Arg | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | Met |

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

<210> 297  
 <211> 112  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CD3#3 VL

<400> 297  
 Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly  
 1 5 10 15  
 Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser  
 20 25 30  
 Arg Thr Arg Lys Val Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln  
 35 40 45  
 Pro Pro Lys 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 Gly Thr Asp Phe Thr Leu Thr  
 65 70 75 80  
 Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Lys Gln  
 85 90 95  
 Ser Phe Ile Leu Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
 100 105 110

<210> 298  
 <211> 119  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CD3#3 VH

<400> 298  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

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

<210> 299

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#4 VL

<400> 299

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

<210> 300

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#4 VH

<400> 300

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

<210> 301

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#5 VL

<400> 301

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

<210> 302

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#5 VH

<400> 302

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

<210> 303

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#6 VL

<400> 303

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

<210> 304  
<211> 119  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CD3#6 VH

<400> 304  
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15  
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20 25 30  
Tyr Val His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile  
35 40 45  
Gly Trp Ile Tyr Pro Gly Gly Gly Asn Ile Lys Tyr Ala Gln Lys Phe  
50 55 60  
Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr  
65 70 75 80  
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95  
Ala Arg Asp Gln Tyr Ser Ala Tyr Tyr Phe Ala Tyr Trp Gly Gln Gly  
100 105 110  
Thr Thr Val Thr Val Ser Ser  
115

<210> 305  
<211> 481  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CD3#1 scFab

<400> 305  
Glu 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 Arg Ser Ser Thr Gly Ala Val Thr Thr Ser  
20 25 30  
Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Gly Gln Leu Pro Arg Gly  
35 40 45  
Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Val Pro Ala Arg Phe  
50 55 60  
Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Ala  
65 70 75 80  
Gln Pro Glu Asp Glu Ala Glu Tyr Phe Cys Ala Leu Trp Tyr Ser Asn  
85 90 95

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro  
 100 105 110  
 Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu Leu  
 115 120 125  
 Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr Pro  
 130 135 140  
 Gly Ala Val Lys Val Ala Trp Lys Ala Asp Gly Ser Pro Val Asn Thr  
 145 150 155 160  
 Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr Ala  
 165 170 175  
 Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His Arg  
 180 185 190  
 Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys Thr  
 195 200 205  
 Val Ala Pro Ala Glu Cys Ser Gly Gly Gly Gly Ser Glu Gly Lys Ser  
 210 215 220  
 Ser Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu Gly Lys Ser Ser Gly  
 225 230 235 240  
 Ser Gly Ser Glu Ser Lys Ser Thr Gly Gly Gly Gly Ser Glu Val Gln  
 245 250 255  
 Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys  
 260 265 270  
 Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Thr Tyr Ala Met Asn  
 275 280 285  
 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile  
 290 295 300  
 Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys  
 305 310 315 320  
 Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu  
 325 330 335  
 Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val  
 340 345 350  
 Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe Ala Tyr Trp  
 355 360 365  
 Gly Gln Gly Thr Leu Val Thr Val Ser Ala Ala Ser Thr Lys Gly Pro  
 370 375 380  
 Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr  
 385 390 395 400  
 Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr  
 405 410 415  
 Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro  
 420 425 430  
 Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr  
 435 440 445  
 Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn  
 450 455 460  
 His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser  
 465 470 475 480  
 Cys

<210> 306  
 <211> 479  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CD3#2 scFab

<400> 306  
 Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly  
 1 5 10 15  
 Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser  
 20 25 30  
 Arg Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln  
 35 40 45  
 Pro Pro Lys 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 Gly Thr Asp Phe Thr Leu Thr  
 65 70 75 80  
 Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Lys Gln  
 85 90 95  
 Ser Phe Ile Leu Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
 100 105 110  
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu  
 115 120 125  
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe  
 130 135 140  
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln  
 145 150 155 160  
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser  
 165 170 175  
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu  
 180 185 190  
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser  
 195 200 205  
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys Gly Gly Gly Gly Ser  
 210 215 220  
 Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu Gly  
 225 230 235 240  
 Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser Thr Gly Gly Gly Gly  
 245 250 255  
 Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly  
 260 265 270  
 Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp  
 275 280 285  
 Tyr Tyr Val His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp  
 290 295 300

Met Gly Trp Ile Tyr Pro Gly Asn Gly Asn Ile Lys Tyr Asn Glu Arg  
 305 310 315 320  
 Phe Arg Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val  
 325 330 335  
 Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr  
 340 345 350  
 Cys Ala Arg Asp Asn Tyr Ser Ala Tyr Tyr Phe Ala Tyr Trp Gly Gln  
 355 360 365  
 Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val  
 370 375 380  
 Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala  
 385 390 395 400  
 Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser  
 405 410 415  
 Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val  
 420 425 430  
 Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro  
 435 440 445  
 Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys  
 450 455 460  
 Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys  
 465 470 475

<210> 307

<211> 479

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#3 scFab

<400> 307

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly  
 1 5 10 15  
 Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser  
 20 25 30  
 Arg Thr Arg Lys Val Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln  
 35 40 45  
 Pro Pro Lys 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 Gly Thr Asp Phe Thr Leu Thr  
 65 70 75 80  
 Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Lys Gln  
 85 90 95  
 Ser Phe Ile Leu Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
 100 105 110  
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu  
 115 120 125  
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe



<220>

<223> CD3#4 scFab

<400> 308

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Val | Met | Thr | Gln | Ser | Pro | Asp | Ser | Leu | Ala | Val | Ser | Leu | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Glu | Arg | Ala | Thr | Ile | Asn | Cys | Lys | Ser | Ser | Gln | Ser | Leu | Leu | Asn | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Arg | Thr | Arg | Lys | Val | Tyr | Leu | Ala | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Gln |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Pro | Pro | Lys | 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 | Gly | Thr | Asp | Phe | Thr | Leu | Thr |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Ile | Ser | Ser | Leu | Gln | Ala | Glu | Asp | Val | Ala | Val | Tyr | Tyr | Cys | Lys | Gln |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ser | Phe | Ile | Leu | Arg | Thr | Phe | Gly | Gln | Gly | Thr | Lys | Leu | Glu | Ile | Lys |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Arg | Thr | Val | Ala | Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |
| Gln | Leu | Lys | Ser | Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe |
|     |     |     | 130 |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Tyr | Pro | Arg | Glu | Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Ser | Gly | Asn | Ser | Gln | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Thr | Tyr | Ser | Leu | Ser | Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu |
|     |     |     | 180 |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Lys | His | Lys | Val | Tyr | Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser |
|     |     |     | 195 |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Pro | Val | Thr | Lys | Ser | Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser |
|     |     |     | 210 |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Glu | Gly | Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Ser | Gln | Val | Gln | Leu | Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ala | Ser | Val | Lys | Val | Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Ser | Phe | Thr | Ser |
|     |     |     | 275 |     |     |     | 280 |     |     |     |     |     | 285 |     |     |
| Tyr | Tyr | Val | His | Trp | Val | Arg | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp |
|     |     |     | 290 |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Ile | Gly | Trp | Ile | Tyr | Pro | Gly | Gly | Gly | Asn | Ile | Lys | Tyr | Asn | Gln | Lys |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     | 320 |     |
| Phe | Gln | Gly | Arg | Val | Thr | Met | Thr | Arg | Asp | Thr | Ser | Thr | Ser | Thr | Val |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Tyr | Met | Glu | Leu | Ser | Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Cys | Ala | Arg | Asp | His | Tyr | Ser | Ala | Tyr | Tyr | Phe | Ala | Tyr | Trp | Gly | Gln |
|     |     |     | 355 |     |     |     | 360 |     |     |     |     |     | 365 |     |     |

Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val  
 370 375 380  
 Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala  
 385 390 395 400  
 Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser  
 405 410 415  
 Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val  
 420 425 430  
 Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro  
 435 440 445  
 Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys  
 450 455 460  
 Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys  
 465 470 475

<210> 309

<211> 479

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#5 scFab

<400> 309

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly  
 1 5 10 15  
 Glu Arg Ala Thr Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser  
 20 25 30  
 Arg Thr Arg Lys Thr Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln  
 35 40 45  
 Pro Pro Lys 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 Gly Thr Asp Phe Thr Leu Thr  
 65 70 75 80  
 Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Lys Gln  
 85 90 95  
 Ser Phe Ile Leu Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
 100 105 110  
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu  
 115 120 125  
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe  
 130 135 140  
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln  
 145 150 155 160  
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser  
 165 170 175  
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu  
 180 185 190  
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| 195                                                             | 200 | 205 |
| Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys Gly Gly Gly Gly Ser |     |     |
| 210                                                             | 215 | 220 |
| Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu Gly |     |     |
| 225                                                             | 230 | 235 |
| Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser Thr Gly Gly Gly Gly |     |     |
| 245                                                             | 250 | 255 |
| Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly |     |     |
| 260                                                             | 265 | 270 |
| Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly |     |     |
| 275                                                             | 280 | 285 |
| Tyr Tyr Val His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp |     |     |
| 290                                                             | 295 | 300 |
| Met Gly Trp Ile Tyr Pro Gly Gly Gly Ser Thr Lys Tyr Ala Gln Lys |     |     |
| 305                                                             | 310 | 315 |
| Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val |     |     |
| 325                                                             | 330 | 335 |
| Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr |     |     |
| 340                                                             | 345 | 350 |
| Cys Ala Arg Asp Gln Tyr Ser Ala Tyr Tyr Phe Ala Tyr Trp Gly Gln |     |     |
| 355                                                             | 360 | 365 |
| Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val |     |     |
| 370                                                             | 375 | 380 |
| Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala |     |     |
| 385                                                             | 390 | 395 |
| Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser |     |     |
| 405                                                             | 410 | 415 |
| Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val |     |     |
| 420                                                             | 425 | 430 |
| Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro |     |     |
| 435                                                             | 440 | 445 |
| Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys |     |     |
| 450                                                             | 455 | 460 |
| Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys     |     |     |
| 465                                                             | 470 | 475 |

<210> 310

<211> 479

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#6 scFab

<400> 310

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Arg | Thr | Arg | Lys | Thr | Tyr | Leu | Ala | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Gln |  |
|     |     | 35  |     |     | 40  |     |     |     |     |     | 45  |     |     |     |     |  |
| Pro | Pro | Lys | 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 | Gly | Thr | Asp | Phe | Thr | Leu | Thr |  |
| 65  |     |     |     |     | 70  |     |     |     |     |     | 75  |     |     | 80  |     |  |
| Ile | Ser | Ser | Leu | Gln | Ala | Glu | Asp | Val | Ala | Val | Tyr | Tyr | Cys | Lys | Gln |  |
|     |     |     |     | 85  |     |     |     |     |     | 90  |     |     | 95  |     |     |  |
| Ser | Phe | Ile | Leu | Arg | Thr | Phe | Gly | Gln | Gly | Thr | Lys | Leu | Glu | Ile | Lys |  |
|     |     |     | 100 |     |     |     |     |     | 105 |     |     | 110 |     |     |     |  |
| Arg | Thr | Val | Ala | Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu |  |
|     |     | 115 |     |     |     |     |     | 120 |     |     | 125 |     |     |     |     |  |
| Gln | Leu | Lys | Ser | Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe |  |
|     |     | 130 |     |     |     |     |     | 135 |     |     | 140 |     |     |     |     |  |
| Tyr | Pro | Arg | Glu | Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln |  |
| 145 |     |     |     |     | 150 |     |     |     |     |     | 155 |     |     | 160 |     |  |
| Ser | Gly | Asn | Ser | Gln | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser |  |
|     |     |     |     | 165 |     |     |     |     |     | 170 |     |     | 175 |     |     |  |
| Thr | Tyr | Ser | Leu | Ser | Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu |  |
|     |     |     | 180 |     |     |     |     |     | 185 |     |     | 190 |     |     |     |  |
| Lys | His | Lys | Val | Tyr | Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser |  |
|     |     | 195 |     |     |     |     |     | 200 |     |     | 205 |     |     |     |     |  |
| Pro | Val | Thr | Lys | Ser | Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser |  |
|     |     | 210 |     |     |     |     |     | 215 |     |     | 220 |     |     |     |     |  |
| Glu | Gly | Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly |  |
| 225 |     |     |     |     | 230 |     |     |     |     |     | 235 |     |     | 240 |     |  |
| Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly |  |
|     |     |     |     | 245 |     |     |     |     |     | 250 |     |     | 255 |     |     |  |
| Ser | Gln | Val | Gln | Leu | Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly |  |
|     |     |     | 260 |     |     |     |     |     | 265 |     |     | 270 |     |     |     |  |
| Ala | Ser | Val | Lys | Val | Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Ser |  |
|     |     | 275 |     |     |     |     |     | 280 |     |     | 285 |     |     |     |     |  |
| Tyr | Tyr | Val | His | Trp | Val | Arg | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp |  |
|     |     | 290 |     |     |     |     |     | 295 |     |     | 300 |     |     |     |     |  |
| Ile | Gly | Trp | Ile | Tyr | Pro | Gly | Gly | Gly | Asn | Ile | Lys | Tyr | Ala | Gln | Lys |  |
| 305 |     |     |     |     | 310 |     |     |     |     |     | 315 |     |     | 320 |     |  |
| Phe | Gln | Gly | Arg | Val | Thr | Met | Thr | Arg | Asp | Thr | Ser | Thr | Ser | Thr | Val |  |
|     |     |     |     | 325 |     |     |     |     |     | 330 |     |     | 335 |     |     |  |
| Tyr | Met | Glu | Leu | Ser | Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr |  |
|     |     |     | 340 |     |     |     |     |     | 345 |     |     | 350 |     |     |     |  |
| Cys | Ala | Arg | Asp | Gln | Tyr | Ser | Ala | Tyr | Tyr | Phe | Ala | Tyr | Trp | Gly | Gln |  |
|     |     | 355 |     |     |     |     |     | 360 |     |     | 365 |     |     |     |     |  |
| Gly | Thr | Thr | Val | Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val |  |
|     |     | 370 |     |     |     |     |     | 375 |     |     | 380 |     |     |     |     |  |
| Phe | Pro | Leu | Ala | Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala |  |
| 385 |     |     |     |     | 390 |     |     |     |     |     | 395 |     |     | 400 |     |  |
| Leu | Gly | Cys | Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser |  |
|     |     |     |     | 405 |     |     |     |     |     | 410 |     |     | 415 |     |     |  |
| Trp | Asn | Ser | Gly | Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val |  |
|     |     |     | 420 |     |     |     |     |     | 425 |     |     | 430 |     |     |     |  |

Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro  
 435 440 445  
 Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys  
 450 455 460  
 Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys  
 465 470 475

<210> 311  
 <211> 707  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CD3#1 chain

<400> 311  
 Glu 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 Arg Ser Ser Thr Gly Ala Val Thr Thr Ser  
 20 25 30  
 Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Gly Gln Leu Pro Arg Gly  
 35 40 45  
 Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Val Pro Ala Arg Phe  
 50 55 60  
 Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Ala  
 65 70 75 80  
 Gln Pro Glu Asp Glu Ala Glu Tyr Phe Cys Ala Leu Trp Tyr Ser Asn  
 85 90 95  
 Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro  
 100 105 110  
 Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu Leu  
 115 120 125  
 Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr Pro  
 130 135 140  
 Gly Ala Val Lys Val Ala Trp Lys Ala Asp Gly Ser Pro Val Asn Thr  
 145 150 155 160  
 Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr Ala  
 165 170 175  
 Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His Arg  
 180 185 190  
 Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys Thr  
 195 200 205  
 Val Ala Pro Ala Glu Cys Ser Gly Gly Gly Gly Ser Glu Gly Lys Ser  
 210 215 220  
 Ser Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu Gly Lys Ser Ser Gly  
 225 230 235 240  
 Ser Gly Ser Glu Ser Lys Ser Thr Gly Gly Gly Gly Ser Glu Val Gln  
 245 250 255  
 Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| 260                                                             | 265 | 270 |
| Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Thr Tyr Ala Met Asn |     |     |
| 275                                                             | 280 | 285 |
| Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile |     |     |
| 290                                                             | 295 | 300 |
| Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys |     |     |
| 305                                                             | 310 | 315 |
| Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu |     |     |
| 325                                                             | 330 | 335 |
| Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val |     |     |
| 340                                                             | 345 | 350 |
| Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe Ala Tyr Trp |     |     |
| 355                                                             | 360 | 365 |
| Gly Gln Gly Thr Leu Val Thr Val Ser Ala Ala Ser Thr Lys Gly Pro |     |     |
| 370                                                             | 375 | 380 |
| Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr |     |     |
| 385                                                             | 390 | 395 |
| Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr |     |     |
| 405                                                             | 410 | 415 |
| Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro |     |     |
| 420                                                             | 425 | 430 |
| Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr |     |     |
| 435                                                             | 440 | 445 |
| Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn |     |     |
| 450                                                             | 455 | 460 |
| His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser |     |     |
| 465                                                             | 470 | 475 |
| Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala |     |     |
| 485                                                             | 490 | 495 |
| Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu |     |     |
| 500                                                             | 505 | 510 |
| Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser |     |     |
| 515                                                             | 520 | 525 |
| His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu |     |     |
| 530                                                             | 535 | 540 |
| Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr |     |     |
| 545                                                             | 550 | 555 |
| Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn |     |     |
| 565                                                             | 570 | 575 |
| Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro |     |     |
| 580                                                             | 585 | 590 |
| Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln |     |     |
| 595                                                             | 600 | 605 |
| Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val |     |     |
| 610                                                             | 615 | 620 |
| Ser Leu Ser Cys Ala Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val |     |     |
| 625                                                             | 630 | 635 |
| Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro |     |     |
| 645                                                             | 650 | 655 |
| Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Val Ser Lys Leu Thr |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     | 660 |     | 665 |     | 670 |     |     |     |     |     |     |     |     |     |     |
| Val | Asp | Lys | Ser | Arg | Trp | Gln | Gln | Gly | Asn | Val | Phe | Ser | Cys | Ser | Val |
|     | 675 |     | 680 |     | 685 |     |     |     |     |     |     |     |     |     |     |
| Met | His | Glu | Ala | Leu | His | Asn | Arg | Phe | Thr | Gln | Lys | Ser | Leu | Ser | Leu |
|     | 690 |     | 695 |     | 700 |     |     |     |     |     |     |     |     |     |     |
| Ser | Pro | Gly |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 705 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 312  
 <211> 705  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CD3#2 chain

<400> 312

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ile | Val | Met | Thr | Gln | Ser | Pro | Asp | Ser | Leu | Ala | Val | Ser | Leu | Gly |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Glu | Arg | Ala | Thr | Ile | Asn | Cys | Lys | Ser | Ser | Gln | Ser | Leu | Leu | Asn | Ser |
|     |     |     | 20  |     |     |     | 25  |     |     |     |     | 30  |     |     |     |
| Arg | Thr | Arg | Lys | Asn | Tyr | Leu | Ala | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Gln |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Pro | Pro | Lys | 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 | Gly | Thr | Asp | Phe | Thr | Leu | Thr |
| 65  |     |     |     | 70  |     |     |     |     |     | 75  |     |     |     | 80  |     |
| Ile | Ser | Ser | Leu | Gln | Ala | Glu | Asp | Val | Ala | Val | Tyr | Tyr | Cys | Lys | Gln |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Ser | Phe | Ile | Leu | Arg | Thr | Phe | Gly | Gln | Gly | Thr | Lys | Leu | Glu | Ile | Lys |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Arg | Thr | Val | Ala | Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Gln | Leu | Lys | Ser | Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe |
|     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |     |
| Tyr | Pro | Arg | Glu | Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln |
| 145 |     |     | 150 |     |     |     |     |     | 155 |     |     |     |     | 160 |     |
| Ser | Gly | Asn | Ser | Gln | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser |
|     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Thr | Tyr | Ser | Leu | Ser | Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu |
|     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |     |     |
| Lys | His | Lys | Val | Tyr | Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser |
|     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     |
| Pro | Val | Thr | Lys | Ser | Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser |
|     | 210 |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     |
| Glu | Gly | Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly |
| 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |     |
| Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly |
|     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Ser | Gln | Val | Gln | Leu | Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly |  |
|     |     |     | 260 |     |     |     |     |     | 265 |     |     | 270 |     |     |     |  |
| Ala | Ser | Val | Lys | Val | Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Ser | Phe | Thr | Asp |  |
|     |     |     | 275 |     |     |     |     |     | 280 |     |     | 285 |     |     |     |  |
| Tyr | Tyr | Val | His | Trp | Val | Arg | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp |  |
|     |     |     | 290 |     |     |     |     |     | 295 |     |     | 300 |     |     |     |  |
| Met | Gly | Trp | Ile | Tyr | Pro | Gly | Asn | Gly | Asn | Ile | Lys | Tyr | Asn | Glu | Arg |  |
| 305 |     |     |     |     |     | 310 |     |     |     |     |     | 315 |     |     | 320 |  |
| Phe | Arg | Gly | Arg | Val | Thr | Met | Thr | Arg | Asp | Thr | Ser | Thr | Ser | Thr | Val |  |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     |     | 335 |  |
| Tyr | Met | Glu | Leu | Ser | Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr |  |
|     |     |     | 340 |     |     |     |     |     | 345 |     |     | 350 |     |     |     |  |
| Cys | Ala | Arg | Asp | Asn | Tyr | Ser | Ala | Tyr | Tyr | Phe | Ala | Tyr | Trp | Gly | Gln |  |
|     |     |     | 355 |     |     |     |     |     | 360 |     |     | 365 |     |     |     |  |
| Gly | Thr | Thr | Val | Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val |  |
|     |     |     | 370 |     |     |     |     |     | 375 |     |     | 380 |     |     |     |  |
| Phe | Pro | Leu | Ala | Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala |  |
| 385 |     |     |     |     |     | 390 |     |     |     |     |     | 395 |     |     | 400 |  |
| Leu | Gly | Cys | Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser |  |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     |     | 415 |  |
| Trp | Asn | Ser | Gly | Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val |  |
|     |     |     | 420 |     |     |     |     |     | 425 |     |     | 430 |     |     |     |  |
| Leu | Gln | Ser | Ser | Gly | Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro |  |
|     |     |     | 435 |     |     |     |     |     | 440 |     |     | 445 |     |     |     |  |
| Ser | Ser | Ser | Leu | Gly | Thr | Gln | Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys |  |
| 450 |     |     |     |     |     | 455 |     |     |     |     |     | 460 |     |     |     |  |
| Pro | Ser | Asn | Thr | Lys | Val | Asp | Lys | Arg | Val | Glu | Pro | Lys | Ser | Cys | Asp |  |
| 465 |     |     |     |     |     | 470 |     |     |     |     |     | 475 |     |     | 480 |  |
| Lys | Thr | His | Thr | Cys | Pro | Pro | Cys | Pro | Ala | Pro | Glu | Ala | Ala | Gly | Gly |  |
|     |     |     | 485 |     |     |     |     |     | 490 |     |     |     |     |     | 495 |  |
| Pro | Ser | Val | Phe | Leu | Phe | Pro | Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met | Ile |  |
|     |     |     | 500 |     |     |     |     |     | 505 |     |     | 510 |     |     |     |  |
| Ser | Arg | Thr | Pro | Glu | Val | Thr | Cys | Val | Val | Val | Asp | Val | Ser | His | Glu |  |
|     |     |     | 515 |     |     |     |     |     | 520 |     |     | 525 |     |     |     |  |
| Asp | Pro | Glu | Val | Lys | Phe | Asn | Trp | Tyr | Val | Asp | Gly | Val | Glu | Val | His |  |
| 530 |     |     |     |     |     | 535 |     |     |     |     |     | 540 |     |     |     |  |
| Asn | Ala | Lys | Thr | Lys | Pro | Arg | Glu | Glu | Gln | Tyr | Asn | Ser | Thr | Tyr | Arg |  |
| 545 |     |     |     |     |     | 550 |     |     |     |     |     | 555 |     |     | 560 |  |
| Val | Val | Ser | Val | Leu | Thr | Val | Leu | His | Gln | Asp | Trp | Leu | Asn | Gly | Lys |  |
|     |     |     | 565 |     |     |     |     |     | 570 |     |     |     |     |     | 575 |  |
| Glu | Tyr | Lys | Cys | Lys | Val | Ser | Asn | Lys | Ala | Leu | Pro | Ala | Pro | Ile | Glu |  |
|     |     |     | 580 |     |     |     |     |     | 585 |     |     | 590 |     |     |     |  |
| Lys | Thr | Ile | Ser | Lys | Ala | Lys | Gly | Gln | Pro | Arg | Glu | Pro | Gln | Val | Tyr |  |
|     |     |     | 595 |     |     |     |     |     | 600 |     |     | 605 |     |     |     |  |
| Thr | Leu | Pro | Pro | Ser | Arg | Glu | Glu | Met | Thr | Lys | Asn | Gln | Val | Ser | Leu |  |
| 610 |     |     |     |     |     | 615 |     |     |     |     |     | 620 |     |     |     |  |
| Ser | Cys | Ala | Val | Lys | Gly | Phe | Tyr | Pro | Ser | Asp | Ile | Ala | Val | Glu | Trp |  |
| 625 |     |     |     |     |     | 630 |     |     |     |     |     | 635 |     |     | 640 |  |
| Glu | Ser | Asn | Gly | Gln | Pro | Glu | Asn | Asn | Tyr | Lys | Thr | Thr | Pro | Pro | Val |  |
|     |     |     | 645 |     |     |     |     |     | 650 |     |     |     |     |     | 655 |  |

Leu Asp Ser Asp Gly Ser Phe Phe Leu Val Ser Lys Leu Thr Val Asp  
                   660                                  665                                  670  
 Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His  
                   675                                  680                                  685  
 Glu Ala Leu His Asn Arg Phe Thr Gln Lys Ser Leu Ser Leu Ser Pro  
                   690                                  695                                  700  
 Gly  
 705

<210> 313

<211> 705

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#3 chain

<400> 313

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly  
 1                                  5                                  10                                  15  
 Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser  
                   20                                  25                                  30  
 Arg Thr Arg Lys Val Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln  
                   35                                  40                                  45  
 Pro Pro Lys 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 Gly Thr Asp Phe Thr Leu Thr  
 65                                  70                                  75                                  80  
 Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Lys Gln  
                   85                                  90                                  95  
 Ser Phe Ile Leu Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
                   100                                  105                                  110  
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu  
                   115                                  120                                  125  
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe  
                   130                                  135                                  140  
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln  
 145                                  150                                  155                                  160  
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser  
                   165                                  170                                  175  
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu  
                   180                                  185                                  190  
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser  
                   195                                  200                                  205  
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys Gly Gly Gly Gly Ser  
                   210                                  215                                  220  
 Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser Thr Glu Gly  
 225                                  230                                  235                                  240  
 Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser Thr Gly Gly Gly Gly

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 245 |     |     |     |     |     |     | 250 |     |     |     |     |     |     | 255 |     |     |  |
| Ser | Gln | Val | Gln | Leu | Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly |     |  |
| 260 |     |     |     |     |     |     | 265 |     |     |     |     |     |     | 270 |     |     |  |
| Ala | Ser | Val | Lys | Val | Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Ser |     |  |
| 275 |     |     |     |     |     |     | 280 |     |     |     |     |     |     | 285 |     |     |  |
| Tyr | Tyr | Val | His | Trp | Val | Arg | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp |     |  |
| 290 |     |     |     |     |     |     | 295 |     |     |     |     |     |     | 300 |     |     |  |
| Ile | Gly | Trp | Ile | Tyr | Pro | Gly | Gly | Gly | Asn | Ile | Lys | Tyr | Ala | Gln | Lys |     |  |
| 305 |     |     |     |     |     |     | 310 |     |     |     |     |     |     | 315 |     | 320 |  |
| Phe | Gln | Gly | Arg | Val | Thr | Met | Thr | Arg | Asp | Thr | Ser | Thr | Ser | Thr | Val |     |  |
| 325 |     |     |     |     |     |     | 330 |     |     |     |     |     |     | 335 |     |     |  |
| Tyr | Met | Glu | Leu | Ser | Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr |     |  |
| 340 |     |     |     |     |     |     | 345 |     |     |     |     |     |     | 350 |     |     |  |
| Cys | Ala | Arg | Asp | Gln | Tyr | Ser | Ala | Tyr | Tyr | Phe | Ala | Tyr | Trp | Gly | Gln |     |  |
| 355 |     |     |     |     |     |     | 360 |     |     |     |     |     |     | 365 |     |     |  |
| Gly | Thr | Thr | Val | Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val |     |  |
| 370 |     |     |     |     |     |     | 375 |     |     |     |     |     |     | 380 |     |     |  |
| Phe | Pro | Leu | Ala | Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala |     |  |
| 385 |     |     |     |     |     |     | 390 |     |     |     |     |     |     | 395 |     | 400 |  |
| Leu | Gly | Cys | Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser |     |  |
| 405 |     |     |     |     |     |     | 410 |     |     |     |     |     |     | 415 |     |     |  |
| Trp | Asn | Ser | Gly | Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val |     |  |
| 420 |     |     |     |     |     |     | 425 |     |     |     |     |     |     | 430 |     |     |  |
| Leu | Gln | Ser | Ser | Gly | Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro |     |  |
| 435 |     |     |     |     |     |     | 440 |     |     |     |     |     |     | 445 |     |     |  |
| Ser | Ser | Ser | Leu | Gly | Thr | Gln | Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys |     |  |
| 450 |     |     |     |     |     |     | 455 |     |     |     |     |     |     | 460 |     |     |  |
| Pro | Ser | Asn | Thr | Lys | Val | Asp | Lys | Arg | Val | Glu | Pro | Lys | Ser | Cys | Asp |     |  |
| 465 |     |     |     |     |     |     | 470 |     |     |     |     |     |     | 475 |     | 480 |  |
| Lys | Thr | His | Thr | Cys | Pro | Pro | Cys | Pro | Ala | Pro | Glu | Ala | Ala | Gly | Gly |     |  |
| 485 |     |     |     |     |     |     | 490 |     |     |     |     |     |     | 495 |     |     |  |
| Pro | Ser | Val | Phe | Leu | Phe | Pro | Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met | Ile |     |  |
| 500 |     |     |     |     |     |     | 505 |     |     |     |     |     |     | 510 |     |     |  |
| Ser | Arg | Thr | Pro | Glu | Val | Thr | Cys | Val | Val | Val | Asp | Val | Ser | His | Glu |     |  |
| 515 |     |     |     |     |     |     | 520 |     |     |     |     |     |     | 525 |     |     |  |
| Asp | Pro | Glu | Val | Lys | Phe | Asn | Trp | Tyr | Val | Asp | Gly | Val | Glu | Val | His |     |  |
| 530 |     |     |     |     |     |     | 535 |     |     |     |     |     |     | 540 |     |     |  |
| Asn | Ala | Lys | Thr | Lys | Pro | Arg | Glu | Glu | Gln | Tyr | Asn | Ser | Thr | Tyr | Arg |     |  |
| 545 |     |     |     |     |     |     | 550 |     |     |     |     |     |     | 555 |     | 560 |  |
| Val | Val | Ser | Val | Leu | Thr | Val | Leu | His | Gln | Asp | Trp | Leu | Asn | Gly | Lys |     |  |
| 565 |     |     |     |     |     |     | 570 |     |     |     |     |     |     | 575 |     |     |  |
| Glu | Tyr | Lys | Cys | Lys | Val | Ser | Asn | Lys | Ala | Leu | Pro | Ala | Pro | Ile | Glu |     |  |
| 580 |     |     |     |     |     |     | 585 |     |     |     |     |     |     | 590 |     |     |  |
| Lys | Thr | Ile | Ser | Lys | Ala | Lys | Gly | Gln | Pro | Arg | Glu | Pro | Gln | Val | Tyr |     |  |
| 595 |     |     |     |     |     |     | 600 |     |     |     |     |     |     | 605 |     |     |  |
| Thr | Leu | Pro | Pro | Ser | Arg | Glu | Glu | Met | Thr | Lys | Asn | Gln | Val | Ser | Leu |     |  |
| 610 |     |     |     |     |     |     | 615 |     |     |     |     |     |     | 620 |     |     |  |
| Ser | Cys | Ala | Val | Lys | Gly | Phe | Tyr | Pro | Ser | Asp | Ile | Ala | Val | Glu | Trp |     |  |
| 625 |     |     |     |     |     |     | 630 |     |     |     |     |     |     | 635 |     | 640 |  |
| Glu | Ser | Asn | Gly | Gln | Pro | Glu | Asn | Asn | Tyr | Lys | Thr | Thr | Pro | Pro | Val |     |  |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
|     |     |     |     | 645 |     |     |     |     |     | 650 |     |     |     |     | 655 |  |  |  |  |
| Leu | Asp | Ser | Asp | Gly | Ser | Phe | Phe | Leu | Val | Ser | Lys | Leu | Thr | Val | Asp |  |  |  |  |
|     |     |     | 660 |     |     |     |     |     | 665 |     |     |     | 670 |     |     |  |  |  |  |
| Lys | Ser | Arg | Trp | Gln | Gln | Gly | Asn | Val | Phe | Ser | Cys | Ser | Val | Met | His |  |  |  |  |
|     |     | 675 |     |     |     |     | 680 |     |     |     |     | 685 |     |     |     |  |  |  |  |
| Glu | Ala | Leu | His | Asn | Arg | Phe | Thr | Gln | Lys | Ser | Leu | Ser | Leu | Ser | Pro |  |  |  |  |
|     | 690 |     |     |     |     | 695 |     |     |     |     | 700 |     |     |     |     |  |  |  |  |
| Gly |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| 705 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |

<210> 314

<211> 705

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#4 chain

<400> 314

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| Asp | Ile | Val | Met | Thr | Gln | Ser | Pro | Asp | Ser | Leu | Ala | Val | Ser | Leu | Gly |  |  |  |  |
| 1   |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |     |  |  |  |  |
| Glu | Arg | Ala | Thr | Ile | Asn | Cys | Lys | Ser | Ser | Gln | Ser | Leu | Leu | Asn | Ser |  |  |  |  |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |     |  |  |  |  |
| Arg | Thr | Arg | Lys | Val | Tyr | Leu | Ala | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Gln |  |  |  |  |
|     | 35  |     |     |     |     | 40  |     |     |     | 45  |     |     |     |     |     |  |  |  |  |
| Pro | Pro | Lys | 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 | Gly | Thr | Asp | Phe | Thr | Leu | Thr |  |  |  |  |
| 65  |     |     | 70  |     |     |     | 75  |     |     |     |     |     |     | 80  |     |  |  |  |  |
| Ile | Ser | Ser | Leu | Gln | Ala | Glu | Asp | Val | Ala | Val | Tyr | Tyr | Cys | Lys | Gln |  |  |  |  |
|     |     | 85  |     |     |     | 90  |     |     |     |     | 95  |     |     |     |     |  |  |  |  |
| Ser | Phe | Ile | Leu | Arg | Thr | Phe | Gly | Gln | Gly | Thr | Lys | Leu | Glu | Ile | Lys |  |  |  |  |
|     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |     |     |  |  |  |  |
| Arg | Thr | Val | Ala | Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu |  |  |  |  |
|     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |     |  |  |  |  |
| Gln | Leu | Lys | Ser | Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe |  |  |  |  |
|     | 130 |     |     | 135 |     |     |     | 140 |     |     |     |     |     |     |     |  |  |  |  |
| Tyr | Pro | Arg | Glu | Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln |  |  |  |  |
| 145 |     |     | 150 |     |     |     | 155 |     |     |     |     |     |     | 160 |     |  |  |  |  |
| Ser | Gly | Asn | Ser | Gln | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser |  |  |  |  |
|     |     | 165 |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     |  |  |  |  |
| Thr | Tyr | Ser | Leu | Ser | Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu |  |  |  |  |
|     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     |  |  |  |  |
| Lys | His | Lys | Val | Tyr | Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser |  |  |  |  |
|     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |     |  |  |  |  |
| Pro | Val | Thr | Lys | Ser | Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser |  |  |  |  |
|     | 210 |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     |  |  |  |  |
| Glu | Gly | Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly |  |  |  |  |
| 225 |     |     | 230 |     |     |     |     |     | 235 |     |     |     |     | 240 |     |  |  |  |  |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | 245 | 250 | 255 |
| Ser | Gln | Val | Gln | Leu | Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | 260 | 265 | 270 |
| Ala | Ser | Val | Lys | Val | Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Ser | Phe | Thr | Ser | 275 | 280 | 285 |
| Tyr | Tyr | Val | His | Trp | Val | Arg | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | 290 | 295 | 300 |
| Ile | Gly | Trp | Ile | Tyr | Pro | Gly | Gly | Gly | Asn | Ile | Lys | Tyr | Asn | Gln | Lys | 305 | 310 | 315 |
| Phe | Gln | Gly | Arg | Val | Thr | Met | Thr | Arg | Asp | Thr | Ser | Thr | Ser | Thr | Val | 325 | 330 | 335 |
| Tyr | Met | Glu | Leu | Ser | Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | 340 | 345 | 350 |
| Cys | Ala | Arg | Asp | His | Tyr | Ser | Ala | Tyr | Tyr | Phe | Ala | Tyr | Trp | Gly | Gln | 355 | 360 | 365 |
| Gly | Thr | Thr | Val | Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | 370 | 375 | 380 |
| Phe | Pro | Leu | Ala | Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | 385 | 390 | 395 |
| Leu | Gly | Cys | Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | 405 | 410 | 415 |
| Trp | Asn | Ser | Gly | Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | 420 | 425 | 430 |
| Leu | Gln | Ser | Ser | Gly | Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | 435 | 440 | 445 |
| Ser | Ser | Ser | Leu | Gly | Thr | Gln | Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | 450 | 455 | 460 |
| Pro | Ser | Asn | Thr | Lys | Val | Asp | Lys | Arg | Val | Glu | Pro | Lys | Ser | Cys | Asp | 465 | 470 | 475 |
| Lys | Thr | His | Thr | Cys | Pro | Pro | Cys | Pro | Ala | Pro | Glu | Ala | Ala | Gly | Gly | 485 | 490 | 495 |
| Pro | Ser | Val | Phe | Leu | Phe | Pro | Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met | Ile | 500 | 505 | 510 |
| Ser | Arg | Thr | Pro | Glu | Val | Thr | Cys | Val | Val | Val | Asp | Val | Ser | His | Glu | 515 | 520 | 525 |
| Asp | Pro | Glu | Val | Lys | Phe | Asn | Trp | Tyr | Val | Asp | Gly | Val | Glu | Val | His | 530 | 535 | 540 |
| Asn | Ala | Lys | Thr | Lys | Pro | Arg | Glu | Glu | Gln | Tyr | Asn | Ser | Thr | Tyr | Arg | 545 | 550 | 555 |
| Val | Val | Ser | Val | Leu | Thr | Val | Leu | His | Gln | Asp | Trp | Leu | Asn | Gly | Lys | 565 | 570 | 575 |
| Glu | Tyr | Lys | Cys | Lys | Val | Ser | Asn | Lys | Ala | Leu | Pro | Ala | Pro | Ile | Glu | 580 | 585 | 590 |
| Lys | Thr | Ile | Ser | Lys | Ala | Lys | Gly | Gln | Pro | Arg | Glu | Pro | Gln | Val | Tyr | 595 | 600 | 605 |
| Thr | Leu | Pro | Pro | Ser | Arg | Glu | Glu | Met | Thr | Lys | Asn | Gln | Val | Ser | Leu | 610 | 615 | 620 |
| Ser | Cys | Ala | Val | Lys | Gly | Phe | Tyr | Pro | Ser | Asp | Ile | Ala | Val | Glu | Trp | 625 | 630 | 635 |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 640 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Glu | Ser | Asn | Gly | Gln | Pro | Glu | Asn | Asn | Tyr | Lys | Thr | Thr | Pro | Pro | Val |  |
|     |     |     |     | 645 |     |     |     |     | 650 |     |     |     |     | 655 |     |  |
| Leu | Asp | Ser | Asp | Gly | Ser | Phe | Phe | Leu | Val | Ser | Lys | Leu | Thr | Val | Asp |  |
|     |     |     | 660 |     |     |     |     | 665 |     |     |     |     | 670 |     |     |  |
| Lys | Ser | Arg | Trp | Gln | Gln | Gly | Asn | Val | Phe | Ser | Cys | Ser | Val | Met | His |  |
|     |     | 675 |     |     |     |     | 680 |     |     |     | 685 |     |     |     |     |  |
| Glu | Ala | Leu | His | Asn | Arg | Phe | Thr | Gln | Lys | Ser | Leu | Ser | Leu | Ser | Pro |  |
|     | 690 |     |     |     |     | 695 |     |     |     |     | 700 |     |     |     |     |  |
| Gly |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 705 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |

<210> 315

<211> 705

<212> PRT

<213> Artificial Sequence

<220>

<223> CD3#5 chain

<400> 315

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Asp | Ile | Val | Met | Thr | Gln | Ser | Pro | Asp | Ser | Leu | Ala | Val | Ser | Leu | Gly |  |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |  |
| Glu | Arg | Ala | Thr | Ile | Ser | Cys | Lys | Ser | Ser | Gln | Ser | Leu | Leu | Asn | Ser |  |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |
| Arg | Thr | Arg | Lys | Thr | Tyr | Leu | Ala | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Gln |  |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |  |
| Pro | Pro | Lys | 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 | Gly | Thr | Asp | Phe | Thr | Leu | Thr |  |
| 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |     |  |
| Ile | Ser | Ser | Leu | Gln | Ala | Glu | Asp | Val | Ala | Val | Tyr | Tyr | Cys | Lys | Gln |  |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |  |
| Ser | Phe | Ile | Leu | Arg | Thr | Phe | Gly | Gln | Gly | Thr | Lys | Leu | Glu | Ile | Lys |  |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |     |  |
| Arg | Thr | Val | Ala | Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu |  |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |  |
| Gln | Leu | Lys | Ser | Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe |  |
|     | 130 |     |     |     |     | 135 |     |     |     | 140 |     |     |     |     |     |  |
| Tyr | Pro | Arg | Glu | Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln |  |
| 145 |     |     |     | 150 |     |     |     | 155 |     |     |     |     |     | 160 |     |  |
| Ser | Gly | Asn | Ser | Gln | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser |  |
|     |     | 165 |     |     |     |     |     | 170 |     |     |     | 175 |     |     |     |  |
| Thr | Tyr | Ser | Leu | Ser | Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu |  |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |  |
| Lys | His | Lys | Val | Tyr | Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser |  |
|     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     |  |
| Pro | Val | Thr | Lys | Ser | Phe | Asn | Arg | Gly | Glu | Cys | Gly | Gly | Gly | Gly | Ser |  |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |
| Glu | Gly | Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly |  |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 225 |     | 230 |     | 235 |     | 240 |     |     |     |     |     |     |     |     |     |
| Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Ser | Gln | Val | Gln | Leu | Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly |
|     |     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |
| Ala | Ser | Val | Lys | Val | Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Gly |
|     |     |     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |
| Tyr | Tyr | Val | His | Trp | Val | Arg | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp |
|     |     |     | 290 |     |     |     |     |     | 295 |     |     |     |     | 300 |     |
| Met | Gly | Trp | Ile | Tyr | Pro | Gly | Gly | Gly | Ser | Thr | Lys | Tyr | Ala | Gln | Lys |
|     |     |     | 305 |     |     |     |     |     | 310 |     |     |     |     | 315 |     |
| Phe | Gln | Gly | Arg | Val | Thr | Met | Thr | Arg | Asp | Thr | Ser | Thr | Ser | Thr | Val |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Tyr | Met | Glu | Leu | Ser | Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr |
|     |     |     | 340 |     |     |     |     |     | 345 |     |     |     |     | 350 |     |
| Cys | Ala | Arg | Asp | Gln | Tyr | Ser | Ala | Tyr | Tyr | Phe | Ala | Tyr | Trp | Gly | Gln |
|     |     |     | 355 |     |     |     |     |     | 360 |     |     |     |     | 365 |     |
| Gly | Thr | Thr | Val | Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val |
|     |     |     | 370 |     |     |     |     |     | 375 |     |     |     |     | 380 |     |
| Phe | Pro | Leu | Ala | Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala |
|     |     |     | 385 |     |     |     |     |     | 390 |     |     |     |     | 395 |     |
| Leu | Gly | Cys | Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Trp | Asn | Ser | Gly | Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val |
|     |     |     | 420 |     |     |     |     |     | 425 |     |     |     |     | 430 |     |
| Leu | Gln | Ser | Ser | Gly | Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro |
|     |     |     | 435 |     |     |     |     |     | 440 |     |     |     |     | 445 |     |
| Ser | Ser | Ser | Leu | Gly | Thr | Gln | Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys |
|     |     |     | 450 |     |     |     |     |     | 455 |     |     |     |     | 460 |     |
| Pro | Ser | Asn | Thr | Lys | Val | Asp | Lys | Arg | Val | Glu | Pro | Lys | Ser | Cys | Asp |
|     |     |     | 465 |     |     |     |     |     | 470 |     |     |     |     | 475 |     |
| Lys | Thr | His | Thr | Cys | Pro | Pro | Cys | Pro | Ala | Pro | Glu | Ala | Ala | Gly | Gly |
|     |     |     | 485 |     |     |     |     |     | 490 |     |     |     |     | 495 |     |
| Pro | Ser | Val | Phe | Leu | Phe | Pro | Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met | Ile |
|     |     |     | 500 |     |     |     |     |     | 505 |     |     |     |     | 510 |     |
| Ser | Arg | Thr | Pro | Glu | Val | Thr | Cys | Val | Val | Val | Asp | Val | Ser | His | Glu |
|     |     |     | 515 |     |     |     |     |     | 520 |     |     |     |     | 525 |     |
| Asp | Pro | Glu | Val | Lys | Phe | Asn | Trp | Tyr | Val | Asp | Gly | Val | Glu | Val | His |
|     |     |     | 530 |     |     |     |     |     | 535 |     |     |     |     | 540 |     |
| Asn | Ala | Lys | Thr | Lys | Pro | Arg | Glu | Glu | Gln | Tyr | Asn | Ser | Thr | Tyr | Arg |
|     |     |     | 545 |     |     |     |     |     | 550 |     |     |     |     | 555 |     |
| Val | Val | Ser | Val | Leu | Thr | Val | Leu | His | Gln | Asp | Trp | Leu | Asn | Gly | Lys |
|     |     |     | 565 |     |     |     |     |     | 570 |     |     |     |     | 575 |     |
| Glu | Tyr | Lys | Cys | Lys | Val | Ser | Asn | Lys | Ala | Leu | Pro | Ala | Pro | Ile | Glu |
|     |     |     | 580 |     |     |     |     |     | 585 |     |     |     |     | 590 |     |
| Lys | Thr | Ile | Ser | Lys | Ala | Lys | Gly | Gln | Pro | Arg | Glu | Pro | Gln | Val | Tyr |
|     |     |     | 595 |     |     |     |     |     | 600 |     |     |     |     | 605 |     |
| Thr | Leu | Pro | Pro | Ser | Arg | Glu | Glu | Met | Thr | Lys | Asn | Gln | Val | Ser | Leu |
|     |     |     | 610 |     |     |     |     |     | 615 |     |     |     |     | 620 |     |
| Ser | Cys | Ala | Val | Lys | Gly | Phe | Tyr | Pro | Ser | Asp | Ile | Ala | Val | Glu | Trp |



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gly | Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Glu | Gly | 225 | 230 | 235 | 240 |
| Lys | Ser | Ser | Gly | Ser | Gly | Ser | Glu | Ser | Lys | Ser | Thr | Gly | Gly | Gly | Gly | 245 | 250 | 255 |     |
| Ser | Gln | Val | Gln | Leu | Val | Gln | Ser | Gly | Ala | Glu | Val | Lys | Lys | Pro | Gly | 260 | 265 | 270 |     |
| Ala | Ser | Val | Lys | Val | Ser | Cys | Lys | Ala | Ser | Gly | Tyr | Thr | Phe | Thr | Ser | 275 | 280 | 285 |     |
| Tyr | Tyr | Val | His | Trp | Val | Arg | Gln | Ala | Pro | Gly | Gln | Gly | Leu | Glu | Trp | 290 | 295 | 300 |     |
| Ile | Gly | Trp | Ile | Tyr | Pro | Gly | Gly | Gly | Asn | Ile | Lys | Tyr | Ala | Gln | Lys | 305 | 310 | 315 | 320 |
| Phe | Gln | Gly | Arg | Val | Thr | Met | Thr | Arg | Asp | Thr | Ser | Thr | Ser | Thr | Val | 325 | 330 | 335 |     |
| Tyr | Met | Glu | Leu | Ser | Ser | Leu | Arg | Ser | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | 340 | 345 | 350 |     |
| Cys | Ala | Arg | Asp | Gln | Tyr | Ser | Ala | Tyr | Tyr | Phe | Ala | Tyr | Trp | Gly | Gln | 355 | 360 | 365 |     |
| Gly | Thr | Thr | Val | Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | 370 | 375 | 380 |     |
| Phe | Pro | Leu | Ala | Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | 385 | 390 | 395 | 400 |
| Leu | Gly | Cys | Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | 405 | 410 | 415 |     |
| Trp | Asn | Ser | Gly | Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | 420 | 425 | 430 |     |
| Leu | Gln | Ser | Ser | Gly | Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | 435 | 440 | 445 |     |
| Ser | Ser | Ser | Leu | Gly | Thr | Gln | Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | 450 | 455 | 460 |     |
| Pro | Ser | Asn | Thr | Lys | Val | Asp | Lys | Arg | Val | Glu | Pro | Lys | Ser | Cys | Asp | 465 | 470 | 475 | 480 |
| Lys | Thr | His | Thr | Cys | Pro | Pro | Cys | Pro | Ala | Pro | Glu | Ala | Ala | Gly | Gly | 485 | 490 | 495 |     |
| Pro | Ser | Val | Phe | Leu | Phe | Pro | Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met | Ile | 500 | 505 | 510 |     |
| Ser | Arg | Thr | Pro | Glu | Val | Thr | Cys | Val | Val | Val | Asp | Val | Ser | His | Glu | 515 | 520 | 525 |     |
| Asp | Pro | Glu | Val | Lys | Phe | Asn | Trp | Tyr | Val | Asp | Gly | Val | Glu | Val | His | 530 | 535 | 540 |     |
| Asn | Ala | Lys | Thr | Lys | Pro | Arg | Glu | Glu | Gln | Tyr | Asn | Ser | Thr | Tyr | Arg | 545 | 550 | 555 | 560 |
| Val | Val | Ser | Val | Leu | Thr | Val | Leu | His | Gln | Asp | Trp | Leu | Asn | Gly | Lys | 565 | 570 | 575 |     |
| Glu | Tyr | Lys | Cys | Lys | Val | Ser | Asn | Lys | Ala | Leu | Pro | Ala | Pro | Ile | Glu | 580 | 585 | 590 |     |
| Lys | Thr | Ile | Ser | Lys | Ala | Lys | Gly | Gln | Pro | Arg | Glu | Pro | Gln | Val | Tyr | 595 | 600 | 605 |     |
| Thr | Leu | Pro | Pro | Ser | Arg | Glu | Glu | Met | Thr | Lys | Asn | Gln | Val | Ser | Leu | 610 | 615 | 620 |     |

Ser Cys Ala Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp  
 625 630 635 640  
 Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val  
 645 650 655  
 Leu Asp Ser Asp Gly Ser Phe Phe Leu Val Ser Lys Leu Thr Val Asp  
 660 665 670  
 Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His  
 675 680 685  
 Glu Ala Leu His Asn Arg Phe Thr Gln Lys Ser Leu Ser Leu Ser Pro  
 690 695 700  
 Gly  
 705

<210> 317

<211> 248

<212> PRT

<213> Artificial Sequence

<220>

<223> His-tagged human B7H6 ECD ECD

<400> 317

Asp Leu Lys Val Glu Met Met Ala Gly Gly Thr Gln Ile Thr Pro Leu  
 1 5 10 15  
 Asn Asp Asn Val Thr Ile Phe Cys Asn Ile Phe Tyr Ser Gln Pro Leu  
 20 25 30  
 Asn Ile Thr Ser Met Gly Ile Thr Trp Phe Trp Lys Ser Leu Thr Phe  
 35 40 45  
 Asp Lys Glu Val Lys Val Phe Glu Phe Phe Gly Asp His Gln Glu Ala  
 50 55 60  
 Phe Arg Pro Gly Ala Ile Val Ser Pro Trp Arg Leu Lys Ser Gly Asp  
 65 70 75 80  
 Ala Ser Leu Arg Leu Pro Gly Ile Gln Leu Glu Glu Ala Gly Glu Tyr  
 85 90 95  
 Arg Cys Glu Val Val Val Thr Pro Leu Lys Ala Gln Gly Thr Val Gln  
 100 105 110  
 Leu Glu Val Val Ala Ser Pro Ala Ser Arg Leu Leu Leu Asp Gln Val  
 115 120 125  
 Gly Met Lys Glu Asn Glu Asp Lys Tyr Met Cys Glu Ser Ser Gly Phe  
 130 135 140  
 Tyr Pro Glu Ala Ile Asn Ile Thr Trp Glu Lys Gln Thr Gln Lys Phe  
 145 150 155 160  
 Pro His Pro Ile Glu Ile Ser Glu Asp Val Ile Thr Gly Pro Thr Ile  
 165 170 175  
 Lys Asn Met Asp Gly Thr Phe Asn Val Thr Ser Cys Leu Lys Leu Asn  
 180 185 190  
 Ser Ser Gln Glu Asp Pro Gly Thr Val Tyr Gln Cys Val Val Arg His  
 195 200 205  
 Ala Ser Leu His Thr Pro Leu Arg Ser Asn Phe Thr Leu Thr Ala Ala

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| 210                                                             | 215 | 220 |
| Arg His Ser Leu Ser Glu Thr Glu Lys Thr Asp Asn Phe Ser Ala Gly |     |     |
| 225                                                             | 230 | 235 |
| Ser Gly His His His His His His                                 |     | 240 |
| 245                                                             |     |     |

<210> 318  
 <211> 500  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Fc-His-tagged human B7H6 ECD

<400> 318

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| Asp Leu Lys Val Glu Met Met Ala Gly Gly Thr Gln Ile Thr Pro Leu |     |     |
| 1                                                               | 5   | 10  |
| Asn Asp Asn Val Thr Ile Phe Cys Asn Ile Phe Tyr Ser Gln Pro Leu |     |     |
| 20                                                              | 25  | 30  |
| Asn Ile Thr Ser Met Gly Ile Thr Trp Phe Trp Lys Ser Leu Thr Phe |     |     |
| 35                                                              | 40  | 45  |
| Asp Lys Glu Val Lys Val Phe Glu Phe Phe Gly Asp His Gln Glu Ala |     |     |
| 50                                                              | 55  | 60  |
| Phe Arg Pro Gly Ala Ile Val Ser Pro Trp Arg Leu Lys Ser Gly Asp |     |     |
| 65                                                              | 70  | 75  |
| Ala Ser Leu Arg Leu Pro Gly Ile Gln Leu Glu Glu Ala Gly Glu Tyr |     |     |
| 85                                                              | 90  | 95  |
| Arg Cys Glu Val Val Val Thr Pro Leu Lys Ala Gln Gly Thr Val Gln |     |     |
| 100                                                             | 105 | 110 |
| Leu Glu Val Val Ala Ser Pro Ala Ser Arg Leu Leu Leu Asp Gln Val |     |     |
| 115                                                             | 120 | 125 |
| Gly Met Lys Glu Asn Glu Asp Lys Tyr Met Cys Glu Ser Ser Gly Phe |     |     |
| 130                                                             | 135 | 140 |
| Tyr Pro Glu Ala Ile Asn Ile Thr Trp Glu Lys Gln Thr Gln Lys Phe |     |     |
| 145                                                             | 150 | 155 |
| Pro His Pro Ile Glu Ile Ser Glu Asp Val Ile Thr Gly Pro Thr Ile |     |     |
| 165                                                             | 170 | 175 |
| Lys Asn Met Asp Gly Thr Phe Asn Val Thr Ser Cys Leu Lys Leu Asn |     |     |
| 180                                                             | 185 | 190 |
| Ser Ser Gln Glu Asp Pro Gly Thr Val Tyr Gln Cys Val Val Arg His |     |     |
| 195                                                             | 200 | 205 |
| Ala Ser Leu His Thr Pro Leu Arg Ser Asn Phe Thr Leu Thr Ala Ala |     |     |
| 210                                                             | 215 | 220 |
| Arg His Ser Leu Ser Glu Thr Glu Lys Thr Asp Asn Phe Ser Gly Gly |     |     |
| 225                                                             | 230 | 235 |
| Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser |     |     |
| 245                                                             | 250 | 255 |
| Gly Gly Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys |     |     |
| 260                                                             | 265 | 270 |

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

<210> 319

<211> 500

<212> PRT

<213> Artificial Sequence

<220>

<223> Fc-His-tagged human Ala-mutated B7H6 ECD (NKp30 interaction sites  
 aa35-38 and aa102-105 substituted by Ala)

<400> 319

Asp Leu Lys Val Glu Met Met Ala Gly Gly Thr Gln Ile Thr Pro Leu  
 1 5 10 15  
 Asn Asp Asn Val Thr Ile Phe Cys Asn Ile Phe Tyr Ser Gln Pro Leu  
 20 25 30  
 Asn Ile Ala Ala Ala Ala Ile Thr Trp Phe Trp Lys Ser Leu Thr Phe  
 35 40 45  
 Asp Lys Glu Val Lys Val Phe Glu Phe Phe Gly Asp His Gln Glu Ala  
 50 55 60

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Arg | Pro | Gly | Ala | Ile | Val | Ser | Pro | Trp | Arg | Leu | Lys | Ser | Gly | Asp | 65  | 70  | 75  | 80  |
| Ala | Ser | Leu | Arg | Leu | Pro | Gly | Ile | Gln | Leu | Glu | Glu | Ala | Gly | Glu | Tyr | 85  | 90  | 95  |     |
| Arg | Cys | Glu | Val | Val | Val | Ala | Ala | Ala | Ala | Gln | Gly | Thr | Val | Gln |     | 100 | 105 | 110 |     |
| Leu | Glu | Val | Val | Ala | Ser | Pro | Ala | Ser | Arg | Leu | Leu | Leu | Asp | Gln | Val | 115 | 120 | 125 |     |
| Gly | Met | Lys | Glu | Asn | Glu | Asp | Lys | Tyr | Met | Cys | Glu | Ser | Ser | Gly | Phe | 130 | 135 | 140 |     |
| Tyr | Pro | Glu | Ala | Ile | Asn | Ile | Thr | Trp | Glu | Lys | Gln | Thr | Gln | Lys | Phe | 145 | 150 | 155 | 160 |
| Pro | His | Pro | Ile | Glu | Ile | Ser | Glu | Asp | Val | Ile | Thr | Gly | Pro | Thr | Ile | 165 | 170 | 175 |     |
| Lys | Asn | Met | Asp | Gly | Thr | Phe | Asn | Val | Thr | Ser | Cys | Leu | Lys | Leu | Asn | 180 | 185 | 190 |     |
| Ser | Ser | Gln | Glu | Asp | Pro | Gly | Thr | Val | Tyr | Gln | Cys | Val | Val | Arg | His | 195 | 200 | 205 |     |
| Ala | Ser | Leu | His | Thr | Pro | Leu | Arg | Ser | Asn | Phe | Thr | Leu | Thr | Ala | Ala | 210 | 215 | 220 |     |
| Arg | His | Ser | Leu | Ser | Glu | Thr | Glu | Lys | Thr | Asp | Asn | Phe | Ser | Gly | Gly | 225 | 230 | 235 | 240 |
| Ser | Gly | Gly | Ser | Gly | Gly | Ser | Gly | Gly | Ser | Gly | Gly | Ser | Gly | Gly | Ser | 245 | 250 | 255 |     |
| Gly | Gly | Glu | Pro | Lys | Ser | Cys | Asp | Lys | Thr | His | Thr | Cys | Pro | Pro | Cys | 260 | 265 | 270 |     |
| Pro | Ala | Pro | Glu | Ala | Ala | Gly | Gly | Pro | Ser | Val | Phe | Leu | Phe | Pro | Pro | 275 | 280 | 285 |     |
| Lys | Pro | Lys | Asp | Thr | Leu | Met | Ile | Ser | Arg | Thr | Pro | Glu | Val | Thr | Cys | 290 | 295 | 300 |     |
| Val | Val | Val | Asp | Val | Ser | His | Glu | Asp | Pro | Glu | Val | Lys | Phe | Asn | Trp | 305 | 310 | 315 | 320 |
| Tyr | Val | Asp | Gly | Val | Glu | Val | His | Asn | Ala | Lys | Thr | Lys | Pro | Arg | Glu | 325 | 330 | 335 |     |
| Glu | Gln | Tyr | Asn | Ser | Thr | Tyr | Arg | Val | Val | Ser | Val | Leu | Thr | Val | Leu | 340 | 345 | 350 |     |
| His | Gln | Asp | Trp | Leu | Asn | Gly | Lys | Glu | Tyr | Lys | Cys | Lys | Val | Ser | Asn | 355 | 360 | 365 |     |
| Lys | Ala | Leu | Pro | Ala | Pro | Ile | Glu | Lys | Thr | Ile | Ser | Lys | Ala | Lys | Gly | 370 | 375 | 380 |     |
| Gln | Pro | Arg | Glu | Pro | Gln | Val | Tyr | Thr | Leu | Pro | Pro | Ser | Arg | Asp | Glu | 385 | 390 | 395 | 400 |
| Leu | Thr | Lys | Asn | Gln | Val | Ser | Leu | Thr | Cys | Leu | Val | Lys | Gly | Phe | Tyr | 405 | 410 | 415 |     |
| Pro | Ser | Asp | Ile | Ala | Val | Glu | Trp | Glu | Ser | Asn | Gly | Gln | Pro | Glu | Asn | 420 | 425 | 430 |     |
| Asn | Tyr | Lys | Thr | Thr | Pro | Pro | Val | Leu | Asp | Ser | Asp | Gly | Ser | Phe | Phe | 435 | 440 | 445 |     |
| Leu | Tyr | Ser | Lys | Leu | Thr | Val | Asp | Lys | Ser | Arg | Trp | Gln | Gln | Gly | Asn | 450 | 455 | 460 |     |

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr  
 465 470 475 480  
 Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Ala Gly Ser Gly His His  
 485 490 495  
 His His His His  
 500

<210> 320

<211> 245

<212> PRT

<213> Artificial Sequence

<220>

<223> His-tagged cyno B7H6 ECD

<400> 320

Asp Leu Lys Val Glu Met Met Ala Arg Gly Ile Gln Ala Thr Arg Leu  
 1 5 10 15  
 Asn Asp Ser Val Thr Ile Ser Cys Lys Val Ile Tyr Ser Gln Pro Leu  
 20 25 30  
 Asn Ile Thr Ser Met Gly Ile Thr Trp Phe Arg Lys Ser Leu Thr Leu  
 35 40 45  
 Asp Lys Glu Val Lys Val Phe Glu Phe Phe Gly Asp His Gln Lys Ala  
 50 55 60  
 Phe Arg Pro Gly Ala Asn Val Ser Leu Trp Arg Leu Lys Ser Gly Asp  
 65 70 75 80  
 Ala Ser Leu Lys Leu Pro Gly Val Gln Leu Glu Glu Ala Gly Glu Tyr  
 85 90 95  
 Arg Cys Glu Val Val Val Thr Pro Leu Lys Ala Gln Gly Thr Val Gln  
 100 105 110  
 Leu Lys Val Val Ala Ser Pro Thr Ser Arg Leu Phe Gln Asp Gln Ala  
 115 120 125  
 Val Val Lys Glu Asn Glu Gly Lys Tyr Met Cys Glu Ser Ser Arg Phe  
 130 135 140  
 Tyr Pro Lys Asp Ile Asn Ile Thr Trp Glu Lys Trp Thr Gln Lys Ser  
 145 150 155 160  
 Pro His His Val Val Ile Ser Glu Asn Val Ile Thr Gly Pro Thr Ile  
 165 170 175  
 Lys Asn Met Asp Gly Thr Phe Asn Ile Thr Ser Tyr Leu Lys Leu Asn  
 180 185 190  
 Ser Ser Gln Glu Asp Pro Gly Thr Val Tyr Arg Cys Val Ile Arg His  
 195 200 205  
 Glu Ser Leu His Thr Pro Val Ser Ile Asp Phe Ile Leu Thr Ala Pro  
 210 215 220  
 Gln Gln Ser Leu Ser Glu Pro Glu Lys Thr Asp Ala Gly Ser Gly His  
 225 230 235 240  
 His His His His His  
 245

<210> 321  
 <211> 497  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Fc-His-tagged cyno B7H6 ECD

<400> 321  
 Asp Leu Lys Val Glu Met Met Ala Arg Gly Ile Gln Ala Thr Arg Leu  
 1 5 10 15  
 Asn Asp Ser Val Thr Ile Ser Cys Lys Val Ile Tyr Ser Gln Pro Leu  
 20 25 30  
 Asn Ile Thr Ser Met Gly Ile Thr Trp Phe Arg Lys Ser Leu Thr Leu  
 35 40 45  
 Asp Lys Glu Val Lys Val Phe Glu Phe Phe Gly Asp His Gln Lys Ala  
 50 55 60  
 Phe Arg Pro Gly Ala Asn Val Ser Leu Trp Arg Leu Lys Ser Gly Asp  
 65 70 75 80  
 Ala Ser Leu Lys Leu Pro Gly Val Gln Leu Glu Glu Ala Gly Glu Tyr  
 85 90 95  
 Arg Cys Glu Val Val Val Thr Pro Leu Lys Ala Gln Gly Thr Val Gln  
 100 105 110  
 Leu Lys Val Val Ala Ser Pro Thr Ser Arg Leu Phe Gln Asp Gln Ala  
 115 120 125  
 Val Val Lys Glu Asn Glu Gly Lys Tyr Met Cys Glu Ser Ser Arg Phe  
 130 135 140  
 Tyr Pro Lys Asp Ile Asn Ile Thr Trp Glu Lys Trp Thr Gln Lys Ser  
 145 150 155 160  
 Pro His His Val Val Ile Ser Glu Asn Val Ile Thr Gly Pro Thr Ile  
 165 170 175  
 Lys Asn Met Asp Gly Thr Phe Asn Ile Thr Ser Tyr Leu Lys Leu Asn  
 180 185 190  
 Ser Ser Gln Glu Asp Pro Gly Thr Val Tyr Arg Cys Val Ile Arg His  
 195 200 205  
 Glu Ser Leu His Thr Pro Val Ser Ile Asp Phe Ile Leu Thr Ala Pro  
 210 215 220  
 Gln Gln Ser Leu Ser Glu Pro Glu Lys Thr Asp Gly Gly Ser Gly Gly  
 225 230 235 240  
 Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Glu  
 245 250 255  
 Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro  
 260 265 270  
 Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys  
 275 280 285  
 Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val  
 290 295 300  
 Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp  
 305 310 315 320

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Gly | Val | Glu | Val | His | Asn | Ala | Lys | Thr | Lys | Pro | Arg | Glu | Glu | Gln | Tyr |  |  |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |  |  |
| Asn | Ser | Thr | Tyr | Arg | Val | Val | Ser | Val | Leu | Thr | Val | Leu | His | Gln | Asp |  |  |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |  |  |
| Trp | Leu | Asn | Gly | Lys | Glu | Tyr | Lys | Cys | Lys | Val | Ser | Asn | Lys | Ala | Leu |  |  |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |  |  |
| Pro | Ala | Pro | Ile | Glu | Lys | Thr | Ile | Ser | Lys | Ala | Lys | Gly | Gln | Pro | Arg |  |  |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |  |  |
| Glu | Pro | Gln | Val | Tyr | Thr | Leu | Pro | Pro | Ser | Arg | Asp | Glu | Leu | Thr | Lys |  |  |
| 385 |     |     |     |     | 390 |     |     |     | 395 |     |     |     |     | 400 |     |  |  |
| Asn | Gln | Val | Ser | Leu | Thr | Cys | Leu | Val | Lys | Gly | Phe | Tyr | Pro | Ser | Asp |  |  |
|     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |     |  |  |
| Ile | Ala | Val | Glu | Trp | Glu | Ser | Asn | Gly | Gln | Pro | Glu | Asn | Asn | Tyr | Lys |  |  |
|     |     | 420 |     |     |     |     |     | 425 |     |     |     |     | 430 |     |     |  |  |
| Thr | Thr | Pro | Pro | Val | Leu | Asp | Ser | Asp | Gly | Ser | Phe | Phe | Leu | Tyr | Ser |  |  |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |  |  |
| Lys | Leu | Thr | Val | Asp | Lys | Ser | Arg | Trp | Gln | Gln | Gly | Asn | Val | Phe | Ser |  |  |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |  |  |
| Cys | Ser | Val | Met | His | Glu | Ala | Leu | His | Asn | His | Tyr | Thr | Gln | Lys | Ser |  |  |
| 465 |     |     |     |     | 470 |     |     |     | 475 |     |     |     |     | 480 |     |  |  |
| Leu | Ser | Leu | Ser | Pro | Gly | Lys | Ala | Gly | Ser | Gly | His | His | His | His | His |  |  |
|     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |     |  |  |
| His |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |

<210> 322

<211> 487

<212> PRT

<213> Artificial Sequence

<220>

<223> Human CD3E+G-HuFc-His

<400> 322

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

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly  
 115 120 125  
 Ser Gly Gly Gln Ser Ile Lys Gly Asn His Leu Val Lys Val Tyr Asp  
 130 135 140  
 Tyr Gln Glu Asp Gly Ser Val Leu Leu Thr Cys Asp Ala Glu Ala Lys  
 145 150 155 160  
 Asn Ile Thr Trp Phe Lys Asp Gly Lys Met Ile Gly Phe Leu Thr Glu  
 165 170 175  
 Asp Lys Lys Lys Trp Asn Leu Gly Ser Asn Ala Lys Asp Pro Arg Gly  
 180 185 190  
 Met Tyr Gln Cys Lys Gly Ser Gln Asn Lys Ser Lys Pro Leu Gln Val  
 195 200 205  
 Tyr Tyr Arg Met Cys Gln Asn Cys Ile Glu Leu Asn Ala Ala Thr Ile  
 210 215 220  
 Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser  
 225 230 235 240  
 Gly Gly Ser Gly Gly Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys  
 245 250 255  
 Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu  
 260 265 270  
 Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu  
 275 280 285  
 Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys  
 290 295 300  
 Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys  
 305 310 315 320  
 Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu  
 325 330 335  
 Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys  
 340 345 350  
 Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys  
 355 360 365  
 Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser  
 370 375 380  
 Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys  
 385 390 395 400  
 Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln  
 405 410 415  
 Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly  
 420 425 430  
 Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln  
 435 440 445  
 Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn  
 450 455 460  
 His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Ala Gly Ser  
 465 470 475 480  
 Ala His His His His His His  
 485

<210> 323

<211> 477

<212> PRT

<213> Artificial Sequence

<220>

<223> cyno CD3 E+G huFc-His

<400> 323

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Asp | Gly | Asn | Glu | Glu | Met | Gly | Ser | Ile | Thr | Gln | Thr | Pro | Tyr | Gln |
| 1   |     |     | 5   |     |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Val | Ser | Ile | Ser | Gly | Thr | Thr | Val | Ile | Leu | Thr | Cys | Ser | Gln | His | Leu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gly | Ser | Glu | Ala | Gln | Trp | Gln | His | Asn | Gly | Lys | Asn | Lys | Gly | Asp | Ser |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gly | Asp | Gln | Leu | Phe | Leu | Pro | Glu | Phe | Ser | Glu | Met | Glu | Gln | Ser | Gly |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Tyr | Tyr | Val | Cys | Tyr | Pro | Arg | Gly | Ser | Asn | Pro | Glu | Asp | Ala | Ser | His |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| His | Leu | Tyr | Leu | Lys | Ala | Arg | Val | Cys | Glu | Asn | Cys | Met | Glu | Met | Asp |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Val | Met | Gly | Gly | Gly | Ser | Gly | Gly | Gly | Ser | Gly | Gly | Gly | Ser | Gly | Gly |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Gly | Ser | Gly | Gly | Gly | Ser | Gly | Gly | Gly | Ser | Gly | Gly | Gln | Ser | Phe | Glu |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Glu | Asn | Arg | Lys | Leu | Asn | Val | Tyr | Asn | Gln | Glu | Asp | Gly | Ser | Val | Leu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Thr | Cys | His | Val | Lys | Asn | Thr | Asn | Ile | Thr | Trp | Phe | Lys | Glu | Gly |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Lys | Met | Ile | Asp | Ile | Leu | Thr | Ala | His | Lys | Asn | Lys | Trp | Asn | Leu | Gly |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ser | Asn | Thr | Lys | Asp | Pro | Arg | Gly | Val | Tyr | Gln | Cys | Lys | Gly | Ser | Lys |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Asp | Lys | Ser | Lys | Thr | Leu | Gln | Val | Tyr | Tyr | Arg | Met | Cys | Gln | Asn | Cys |
|     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     |
| Ile | Glu | Leu | Asn | Ala | Ala | Thr | Gly | Gly | Ser | Gly | Gly | Ser | Gly | Gly | Ser |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Gly | Gly | Ser | Gly | Gly | Ser | Gly | Gly | Ser | Gly | Gly | Glu | Pro | Lys | Ser | Cys |
| 225 |     |     |     |     | 230 |     |     |     | 235 |     |     |     |     | 240 |     |
| Asp | Lys | Thr | His | Thr | Cys | Pro | Pro | Cys | Pro | Ala | Pro | Glu | Leu | Leu | Gly |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Gly | Pro | Ser | Val | Phe | Leu | Phe | Pro | Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met |
|     | 260 |     |     |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
| Ile | Ser | Arg | Thr | Pro | Glu | Val | Thr | Cys | Val | Val | Val | Asp | Val | Ser | His |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Glu | Asp | Pro | Glu | Val | Lys | Phe | Asn | Trp | Tyr | Val | Asp | Gly | Val | Glu | Val |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| His | Asn | Ala | Lys | Thr | Lys | Pro | Arg | Glu | Glu | Gln | Tyr | Asn | Ser | Thr | Tyr |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     | 320 |     |
| Arg | Val | Val | Ser | Val | Leu | Thr | Val | Leu | His | Gln | Asp | Trp | Leu | Asn | Gly |



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Thr | Thr | Thr | Asn | Ser | Lys | Arg | Glu | Glu | Lys | Leu | Phe | Asn | Val | Thr | Ser |  |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |
| Thr | Leu | Arg | Ile | Asn | Thr | Thr | Thr | Asn | Glu | Ile | Phe | Tyr | Cys | Thr | Phe |  |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |
| Arg | Arg | Leu | Asp | Pro | Glu | Glu | Asn | His | Thr | Ala | Glu | Leu | Val | Ile | Pro |  |
|     |     |     | 195 |     |     |     | 200 |     |     |     |     | 205 |     |     |     |  |
| Glu | Leu | Pro | Leu | Ala | His | Pro | Pro | Asn | Glu | Arg | Thr | Glu | Gln | Lys | Leu |  |
|     |     | 210 |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |
| Ile | Ser | Glu | Glu | Asp | Leu | Leu | Val | Pro | Arg | Gly | Ser | Arg | Ser | Val | Glu |  |
| 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |     |  |
| Cys | Pro | Pro | Cys | Pro | Ala | Pro | Pro | Val | Ala | Gly | Pro | Ser | Val | Phe | Leu |  |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |     |  |
| Phe | Pro | Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met | Ile | Ser | Arg | Thr | Pro | Glu |  |
|     |     |     | 260 |     |     |     | 265 |     |     |     |     |     | 270 |     |     |  |
| Val | Thr | Cys | Val | Val | Val | Asp | Val | Ser | His | Glu | Asp | Pro | Glu | Val | Lys |  |
|     |     | 275 |     |     |     | 280 |     |     |     |     | 285 |     |     |     |     |  |
| Phe | Asn | Trp | Tyr | Val | Asp | Gly | Val | Glu | Val | His | Asn | Ala | Lys | Thr | Lys |  |
|     | 290 |     |     |     | 295 |     |     |     | 300 |     |     |     |     |     |     |  |
| Pro | Arg | Glu | Glu | Gln | Tyr | Asn | Ser | Thr | Tyr | Arg | Val | Val | Ser | Val | Leu |  |
| 305 |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |     |  |
| Thr | Val | Leu | His | Gln | Asp | Trp | Leu | Asn | Gly | Lys | Glu | Tyr | Lys | Cys | Lys |  |
|     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |     |  |
| Val | Ser | Asn | Lys | Gly | Leu | Pro | Ser | Ser | Ile | Glu | Lys | Thr | Ile | Ser | Lys |  |
|     |     | 340 |     |     |     | 345 |     |     |     |     |     | 350 |     |     |     |  |
| Ala | Lys | Gly | Gln | Pro | Arg | Glu | Pro | Gln | Val | Tyr | Thr | Leu | Pro | Pro | Ser |  |
|     | 355 |     |     |     | 360 |     |     |     |     |     | 365 |     |     |     |     |  |
| Arg | Glu | Glu | Met | Thr | Lys | Asn | Gln | Val | Ser | Leu | Thr | Cys | Leu | Val | Lys |  |
|     | 370 |     |     |     | 375 |     |     |     | 380 |     |     |     |     |     |     |  |
| Gly | Phe | Tyr | Pro | Ser | Asp | Ile | Ala | Val | Glu | Trp | Glu | Ser | Asn | Gly | Gln |  |
| 385 |     |     |     | 390 |     |     |     |     | 395 |     |     |     | 400 |     |     |  |
| Pro | Glu | Asn | Asn | Tyr | Lys | Thr | Thr | Pro | Pro | Val | Leu | Asp | Ser | Asp | Gly |  |
|     |     | 405 |     |     |     |     |     | 410 |     |     |     | 415 |     |     |     |  |
| Ser | Phe | Phe | Leu | Tyr | Ser | Lys | Leu | Thr | Val | Asp | Lys | Ser | Arg | Trp | Gln |  |
|     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |  |
| Gln | Gly | Asn | Val | Phe | Ser | Cys | Ser | Val | Met | His | Glu | Gly | Leu | His | Asn |  |
|     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     |  |
| His | Tyr | Thr | Gln | Lys | Ser | Leu | Ser | Leu | Ser | Pro | Gly | Lys |     |     |     |  |
|     | 450 |     |     |     | 455 |     |     |     |     |     | 460 |     |     |     |     |  |

<210> 325

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Vk leader

<400> 325

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro

|                     |   |    |    |
|---------------------|---|----|----|
| 1                   | 5 | 10 | 15 |
| Gly Ser Thr Gly Asp |   |    |    |
| 20                  |   |    |    |

<210> 326  
 <211> 16  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> 6-His-myc tag

|                                                                 |
|-----------------------------------------------------------------|
| <400> 326                                                       |
| His His His His His His Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu |
| 1 5 10 15                                                       |

<210> 327  
 <211> 238  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Cynomolgus B7-H6 extracellular domain (NCBI XP\_005578557.1, aa25-262)

|                                                                 |
|-----------------------------------------------------------------|
| <400> 327                                                       |
| Asp Leu Lys Val Glu Met Met Ala Arg Gly Ile Gln Ala Thr Arg Leu |
| 1 5 10 15                                                       |
| Asn Asp Ser Val Thr Ile Ser Cys Lys Val Ile Tyr Ser Gln Pro Leu |
| 20 25 30                                                        |
| Asn Ile Thr Ser Met Gly Ile Thr Trp Phe Arg Lys Ser Leu Thr Leu |
| 35 40 45                                                        |
| Asp Lys Glu Val Lys Val Phe Glu Phe Phe Gly Asp His Gln Lys Ala |
| 50 55 60                                                        |
| Phe Arg Pro Gly Ala Asn Val Ser Leu Trp Arg Leu Lys Ser Gly Asp |
| 65 70 75 80                                                     |
| Ala Ser Leu Lys Leu Pro Gly Val Gln Leu Glu Glu Ala Gly Glu Tyr |
| 85 90 95                                                        |
| Arg Cys Glu Val Val Val Thr Pro Leu Lys Ala Gln Gly Thr Val Gln |
| 100 105 110                                                     |
| Leu Lys Val Val Ala Ser Pro Thr Ser Arg Leu Phe Gln Asp Gln Ala |
| 115 120 125                                                     |
| Val Val Lys Glu Asn Glu Gly Lys Tyr Met Cys Glu Ser Ser Arg Phe |
| 130 135 140                                                     |
| Tyr Pro Lys Asp Ile Asn Ile Thr Trp Glu Lys Trp Thr Gln Lys Ser |
| 145 150 155 160                                                 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | His | His | Val | Val | Ile | Ser | Glu | Asn | Val | Ile | Thr | Gly | Pro | Thr | Ile |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Lys | Asn | Met | Asp | Gly | Thr | Phe | Asn | Ile | Thr | Ser | Tyr | Leu | Lys | Leu | Asn |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ser | Ser | Gln | Glu | Asp | Pro | Gly | Thr | Val | Tyr | Arg | Cys | Val | Ile | Arg | His |
|     |     | 195 |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     |
| Glu | Ser | Leu | His | Thr | Pro | Val | Ser | Ile | Asp | Phe | Ile | Leu | Thr | Ala | Pro |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Gln | Gln | Ser | Leu | Ser | Glu | Pro | Glu | Lys | Thr | Asp | Ile | Phe | Ser |     |     |
| 225 |     |     |     |     | 230 |     |     |     | 235 |     |     |     |     |     |     |

<210> 328  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Linker

<400> 328  
 Ser Gly Gly Gly Gly Ser  
 1 5

<210> 329  
 <211> 23  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Human EpCAM transmembrane domain (Uniprot P16422, aa266-288)

<400> 329  
 Ala Gly Val Ile Ala Val Ile Val Val Val Val Ile Ala Val Val Ala  
 1 5 10 15  
 Gly Ile Val Val Leu Val Ile  
 20

<210> 330  
 <211> 26  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Human EpCAM intracellular domain (Uniprot P16422, aa289-314)

<400> 330  
 Ser Arg Lys Lys Arg Met Ala Lys Tyr Glu Lys Ala Glu Ile Lys Glu

|                                         |    |    |    |
|-----------------------------------------|----|----|----|
| 1                                       | 5  | 10 | 15 |
| Met Gly Glu Met His Arg Glu Leu Asn Ala |    |    |    |
| 20                                      | 25 |    |    |

<210> 331  
 <211> 446  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> PD1-1 HC

<400> 331

|                                                                 |     |     |     |
|-----------------------------------------------------------------|-----|-----|-----|
| Glu Val Met Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly |     |     |     |
| 1                                                               | 5   | 10  | 15  |
| Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Ser Ala Ser |     |     |     |
| 20                                                              | 25  | 30  |     |
| Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val |     |     |     |
| 35                                                              | 40  | 45  |     |
| Ala Tyr Ile Ser Gly Gly Gly Gly Asp Thr Tyr Tyr Ser Ser Ser Val |     |     |     |
| 50                                                              | 55  | 60  |     |
| Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala 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 His Ser Asn Val Asn Tyr Tyr Ala Met Asp Tyr Trp Gly Gln |     |     |     |
| 100                                                             | 105 | 110 |     |
| Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val |     |     |     |
| 115                                                             | 120 | 125 |     |
| Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala |     |     |     |
| 130                                                             | 135 | 140 |     |
| Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser |     |     |     |
| 145                                                             | 150 | 155 | 160 |
| Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val |     |     |     |
| 165                                                             | 170 | 175 |     |
| Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro |     |     |     |
| 180                                                             | 185 | 190 |     |
| Ser Ser Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys |     |     |     |
| 195                                                             | 200 | 205 |     |
| Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro |     |     |     |
| 210                                                             | 215 | 220 |     |
| Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val |     |     |     |
| 225                                                             | 230 | 235 | 240 |
| Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr |     |     |     |
| 245                                                             | 250 | 255 |     |
| Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu |     |     |     |
| 260                                                             | 265 | 270 |     |
| Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys |     |     |     |
| 275                                                             | 280 | 285 |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Lys | Pro | Arg | Glu | Glu | Gln | Phe | Asn | Ser | Thr | Tyr | Arg | Val | Val | Ser |
| 290 |     |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Val | Leu | Thr | Val | Leu | His | Gln | Asp | Trp | Leu | Asn | Gly | Lys | Glu | Tyr | Lys |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Cys | Lys | Val | Ser | Asn | Lys | Gly | Leu | Pro | Ser | Ser | Ile | Glu | Lys | Thr | Ile |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Ser | Lys | Ala | Lys | Gly | Gln | Pro | Arg | Glu | Pro | Gln | Val | Tyr | Thr | Leu | Pro |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Pro | Ser | Gln | Glu | Glu | Met | Thr | Lys | Asn | Gln | Val | Ser | Leu | Thr | Cys | Leu |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Val | Lys | Gly | Phe | Tyr | Pro | Ser | Asp | Ile | Ala | Val | Glu | Trp | Glu | Ser | Asn |
| 370 |     |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Gly | Gln | Pro | Glu | Asn | Asn | Tyr | Lys | Thr | Thr | Pro | Pro | Val | Leu | Asp | Ser |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Asp | Gly | Ser | Phe | Phe | Leu | Tyr | Ser | Arg | Leu | Thr | Val | Asp | Lys | Ser | Arg |
|     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |     |
| Trp | Gln | Glu | Gly | Asn | Val | Phe | Ser | Cys | Ser | Val | Met | His | Glu | Ala | Leu |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     | 430 |     |     |     |
| His | Asn | His | Tyr | Thr | Gln | Lys | Ser | Leu | Ser | Leu | Ser | Leu | Gly |     |     |
|     | 435 |     |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |

<210> 332

<211> 218

<212> PRT

<213> Artificial Sequence

<220>

<223> PD1-1 LC

<400> 332

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ile | Val | Leu | Thr | Gln | Ser | Pro | Ala | Thr | Leu | Ser | Leu | Ser | Pro | Gly |
| 1   |     |     | 5   |     |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Glu | Arg | Ala | Thr | Met | Ser | Cys | Arg | Ala | Ser | Glu | Asn | Ile | Asp | Thr | Ser |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gly | Ile | Ser | Phe | Met | Asn | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Gln | Ala | Pro |
|     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| Lys | Leu | Leu | Ile | Tyr | Val | Ala | Ser | Asn | Gln | Gly | Ser | Gly | Ile | Pro | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Arg | Phe | Ser | Gly | Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr | Ile | Ser |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| Arg | Leu | Glu | Pro | Glu | Asp | Phe | Ala | Val | Tyr | Tyr | Cys | Gln | Gln | Ser | Lys |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Glu | Val | Pro | Trp | Thr | Phe | Gly | Gln | Gly | Thr | Lys | Leu | Glu | Ile | Lys | Arg |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Thr | Val | Ala | Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Lys | Ser | Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr |
|     | 130 |     |     |     |     | 135 |     |     |     |     |     | 140 |     |     |     |
| Pro | Arg | Glu | Ala | Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 145 |     | 150 |     | 155 |     | 160 |     |     |     |     |     |     |     |     |     |
| Gly | Asn | Ser | Gln | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr |
|     |     | 165 |     | 170 |     | 175 |     |     |     |     |     |     |     |     |     |
| Tyr | Ser | Leu | Ser | Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys |
|     |     | 180 |     | 185 |     | 190 |     |     |     |     |     |     |     |     |     |
| His | Lys | Val | Tyr | Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro |
|     |     | 195 |     | 200 |     | 205 |     |     |     |     |     |     |     |     |     |
| Val | Thr | Lys | Ser | Phe | Asn | Arg | Gly | Glu | Cys |     |     |     |     |     |     |
|     |     | 210 |     | 215 |     |     |     |     |     |     |     |     |     |     |     |

<210> 333

<211> 446

<212> PRT

<213> Artificial Sequence

<220>

<223> PD1-2 HC

<400> 333

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Met | Leu | Val | Glu | Ser | Gly | Gly | Gly | Leu | Val | Gln | Pro | Gly | Gly |
| 1   |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Ser | Leu | Arg | Leu | Ser | Cys | Thr | Ala | Ser | Gly | Phe | Thr | Phe | Ser | Ala | Ser |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |     |
| Ala | Met | Ser | Trp | Val | Arg | Gln | Ala | Pro | Gly | Lys | Gly | Leu | Glu | Trp | Val |
|     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |     |
| Ala | Tyr | Ile | Ser | Gly | Gly | Gly | Gly | Asp | Thr | Tyr | Tyr | Ser | Ser | Ser | Val |
|     | 50  |     |     |     | 55  |     |     | 60  |     |     |     |     |     |     |     |
| Lys | Gly | Arg | Phe | Thr | Ile | Ser | Arg | Asp | Asn | Ala | 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 | His | Ser | Asn | Pro | Asn | Tyr | Tyr | Ala | Met | Asp | Tyr | Trp | Gly | Gln |
|     | 100 |     |     |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Gly | Thr | Leu | Val | Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Phe | Pro | Leu | Ala | Pro | Cys | Ser | Arg | Ser | Thr | Ser | Glu | Ser | Thr | Ala | Ala |
|     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |     |
| Leu | Gly | Cys | Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser |
| 145 |     |     | 150 |     |     |     |     | 155 |     |     |     |     |     | 160 |     |
| Trp | Asn | Ser | Gly | Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val |
|     |     | 165 |     |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Leu | Gln | Ser | Ser | Gly | Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ser | Ser | Ser | Leu | Gly | Thr | Lys | Thr | Tyr | Thr | Cys | Asn | Val | Asp | His | Lys |
|     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     |
| Pro | Ser | Asn | Thr | Lys | Val | Asp | Lys | Arg | Val | Glu | Ser | Lys | Tyr | Gly | Pro |
|     | 210 |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |     |
| Pro | Cys | Pro | Pro | Cys | Pro | Ala | Pro | Glu | Phe | Leu | Gly | Gly | Pro | Ser | Val |
| 225 |     |     |     | 230 |     |     |     |     |     | 235 |     |     |     | 240 |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Leu | Phe | Pro | Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met | Ile | Ser | Arg | Thr |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Pro | Glu | Val | Thr | Cys | Val | Val | Val | Asp | Val | Ser | Gln | Glu | Asp | Pro | Glu |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Val | Gln | Phe | Asn | Trp | Tyr | Val | Asp | Gly | Val | Glu | Val | His | Asn | Ala | Lys |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Thr | Lys | Pro | Arg | Glu | Glu | Gln | Phe | Asn | Ser | Thr | Tyr | Arg | Val | Val | Ser |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Val | Leu | Thr | Val | Leu | His | Gln | Asp | Trp | Leu | Asn | Gly | Lys | Glu | Tyr | Lys |
| 305 |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |     |
| Cys | Lys | Val | Ser | Asn | Lys | Gly | Leu | Pro | Ser | Ser | Ile | Glu | Lys | Thr | Ile |
|     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |     |
| Ser | Lys | Ala | Lys | Gly | Gln | Pro | Arg | Glu | Pro | Gln | Val | Tyr | Thr | Leu | Pro |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |     |
| Pro | Ser | Gln | Glu | Glu | Met | Thr | Lys | Asn | Gln | Val | Ser | Leu | Thr | Cys | Leu |
|     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |     |
| Val | Lys | Gly | Phe | Tyr | Pro | Ser | Asp | Ile | Ala | Val | Glu | Trp | Glu | Ser | Asn |
|     | 370 |     |     |     | 375 |     |     |     |     |     | 380 |     |     |     |     |
| Gly | Gln | Pro | Glu | Asn | Asn | Tyr | Lys | Thr | Thr | Pro | Pro | Val | Leu | Asp | Ser |
| 385 |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |     |
| Asp | Gly | Ser | Phe | Phe | Leu | Tyr | Ser | Arg | Leu | Thr | Val | Asp | Lys | Ser | Arg |
|     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |     |
| Trp | Gln | Glu | Gly | Asn | Val | Phe | Ser | Cys | Ser | Val | Met | His | Glu | Ala | Leu |
|     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |
| His | Asn | His | Tyr | Thr | Gln | Lys | Ser | Leu | Ser | Leu | Ser | Leu | Gly |     |     |
|     | 435 |     |     |     |     | 440 |     |     |     |     |     | 445 |     |     |     |

<210> 334

<211> 218

<212> PRT

<213> Artificial Sequence

<220>

<223> PD1-2 LC

<400> 334

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

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| 100                                                             | 105 | 110 |
| Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln |     |     |
| 115                                                             | 120 | 125 |
| Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr |     |     |
| 130                                                             | 135 | 140 |
| Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser |     |     |
| 145                                                             | 150 | 155 |
| Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr |     |     |
| 165                                                             | 170 | 175 |
| Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys |     |     |
| 180                                                             | 185 | 190 |
| His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro |     |     |
| 195                                                             | 200 | 205 |
| Val Thr Lys Ser Phe Asn Arg Gly Glu Cys                         |     |     |
| 210                                                             | 215 |     |

<210> 335

<211> 446

<212> PRT

<213> Artificial Sequence

<220>

<223> PD1-3 HC

<400> 335

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| Glu Val Met Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly |     |     |
| 1                                                               | 5   | 10  |
| Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Ser Lys Ser |     |     |
| 20                                                              | 25  | 30  |
| Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val |     |     |
| 35                                                              | 40  | 45  |
| Ala Tyr Ile Ser Gly Gly Gly Gly Asp Thr Tyr Tyr Ser Ser Ser Val |     |     |
| 50                                                              | 55  | 60  |
| Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr |     |     |
| 65                                                              | 70  | 75  |
| Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys |     |     |
| 85                                                              | 90  | 95  |
| Ala Arg His Ser Asn Val Asn Tyr Tyr Ala Met Asp Tyr Trp Gly Gln |     |     |
| 100                                                             | 105 | 110 |
| Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val |     |     |
| 115                                                             | 120 | 125 |
| Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala |     |     |
| 130                                                             | 135 | 140 |
| Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser |     |     |
| 145                                                             | 150 | 155 |
| Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val |     |     |
| 165                                                             | 170 | 175 |
| Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro |     |     |
| 180                                                             | 185 | 190 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Ser | Leu | Gly | Thr | Lys | Thr | Tyr | Thr | Cys | Asn | Val | Asp | His | Lys |
| 195 |     |     |     | 200 |     |     |     | 205 |     |     |     |     |     |     |     |
| Pro | Ser | Asn | Thr | Lys | Val | Asp | Lys | Arg | Val | Glu | Ser | Lys | Tyr | Gly | Pro |
| 210 |     |     |     | 215 |     |     |     | 220 |     |     |     |     |     |     |     |
| Pro | Cys | Pro | Pro | Cys | Pro | Ala | Pro | Glu | Phe | Leu | Gly | Gly | Pro | Ser | Val |
| 225 |     |     |     | 230 |     |     |     | 235 |     |     |     | 240 |     |     |     |
| Phe | Leu | Phe | Pro | Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met | Ile | Ser | Arg | Thr |
| 245 |     |     |     | 250 |     |     |     | 255 |     |     |     |     |     |     |     |
| Pro | Glu | Val | Thr | Cys | Val | Val | Val | Asp | Val | Ser | Gln | Glu | Asp | Pro | Glu |
| 260 |     |     |     | 265 |     |     |     | 270 |     |     |     |     |     |     |     |
| Val | Gln | Phe | Asn | Trp | Tyr | Val | Asp | Gly | Val | Glu | Val | His | Asn | Ala | Lys |
| 275 |     |     |     | 280 |     |     |     | 285 |     |     |     |     |     |     |     |
| Thr | Lys | Pro | Arg | Glu | Glu | Gln | Phe | Asn | Ser | Thr | Tyr | Arg | Val | Val | Ser |
| 290 |     |     |     | 295 |     |     |     | 300 |     |     |     |     |     |     |     |
| Val | Leu | Thr | Val | Leu | His | Gln | Asp | Trp | Leu | Asn | Gly | Lys | Glu | Tyr | Lys |
| 305 |     |     |     | 310 |     |     |     | 315 |     |     |     | 320 |     |     |     |
| Cys | Lys | Val | Ser | Asn | Lys | Gly | Leu | Pro | Ser | Ser | Ile | Glu | Lys | Thr | Ile |
| 325 |     |     |     | 330 |     |     |     | 335 |     |     |     |     |     |     |     |
| Ser | Lys | Ala | Lys | Gly | Gln | Pro | Arg | Glu | Pro | Gln | Val | Tyr | Thr | Leu | Pro |
| 340 |     |     |     | 345 |     |     |     | 350 |     |     |     |     |     |     |     |
| Pro | Ser | Gln | Glu | Glu | Met | Thr | Lys | Asn | Gln | Val | Ser | Leu | Thr | Cys | Leu |
| 355 |     |     |     | 360 |     |     |     | 365 |     |     |     |     |     |     |     |
| Val | Lys | Gly | Phe | Tyr | Pro | Ser | Asp | Ile | Ala | Val | Glu | Trp | Glu | Ser | Asn |
| 370 |     |     |     | 375 |     |     |     | 380 |     |     |     |     |     |     |     |
| Gly | Gln | Pro | Glu | Asn | Asn | Tyr | Lys | Thr | Thr | Pro | Pro | Val | Leu | Asp | Ser |
| 385 |     |     |     | 390 |     |     |     | 395 |     |     |     | 400 |     |     |     |
| Asp | Gly | Ser | Phe | Phe | Leu | Tyr | Ser | Arg | Leu | Thr | Val | Asp | Lys | Ser | Arg |
| 405 |     |     |     | 410 |     |     |     | 415 |     |     |     |     |     |     |     |
| Trp | Gln | Glu | Gly | Asn | Val | Phe | Ser | Cys | Ser | Val | Met | His | Glu | Ala | Leu |
| 420 |     |     |     | 425 |     |     |     | 430 |     |     |     |     |     |     |     |
| His | Asn | His | Tyr | Thr | Gln | Lys | Ser | Leu | Ser | Leu | Ser | Leu | Gly |     |     |
| 435 |     |     |     | 440 |     |     |     | 445 |     |     |     |     |     |     |     |

<210> 336

<211> 218

<212> PRT

<213> Artificial Sequence

<220>

<223> PD1-3 LC

<400> 336

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

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

<210> 337

<211> 446

<212> PRT

<213> Artificial Sequence

<220>

<223> PD1-4 HC

<400> 337

|                                                                 |     |     |
|-----------------------------------------------------------------|-----|-----|
| Glu Val Met Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly |     |     |
| 1                                                               | 5   | 10  |
| Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Ser Lys Ser |     |     |
| 20                                                              | 25  | 30  |
| Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val |     |     |
| 35                                                              | 40  | 45  |
| Ala Tyr Ile Ser Gly Gly Gly Gly Asp Thr Tyr Tyr Ser Ser Ser Val |     |     |
| 50                                                              | 55  | 60  |
| Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr |     |     |
| 65                                                              | 70  | 75  |
| Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys |     |     |
| 85                                                              | 90  | 95  |
| Ala Arg His Ser Asn Val Asn Tyr Tyr Ala Met Asp Tyr Trp Gly Gln |     |     |
| 100                                                             | 105 | 110 |
| Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val |     |     |
| 115                                                             | 120 | 125 |
| Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala |     |     |
| 130                                                             | 135 | 140 |

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser  
 145 150 155 160  
 Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val  
 165 170 175  
 Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro  
 180 185 190  
 Ser Ser Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys  
 195 200 205  
 Pro Ser Asn Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro  
 210 215 220  
 Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val  
 225 230 235 240  
 Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr  
 245 250 255  
 Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu  
 260 265 270  
 Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys  
 275 280 285  
 Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser  
 290 295 300  
 Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys  
 305 310 315 320  
 Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile  
 325 330 335  
 Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro  
 340 345 350  
 Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu  
 355 360 365  
 Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn  
 370 375 380  
 Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser  
 385 390 395 400  
 Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg  
 405 410 415  
 Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu  
 420 425 430  
 His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly  
 435 440 445

<210> 338

<211> 218

<212> PRT

<213> Artificial Sequence

<220>

<223> PD1-4 LC

<400> 338

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly

|                 |                 |                     |                 |
|-----------------|-----------------|---------------------|-----------------|
| 1               | 5               | 10                  | 15              |
| Glu Arg Ala Thr | Met Ser Cys Arg | Ala Ser Glu Asn Ile | Asp Val Ser     |
| 20              | 25              | 30                  |                 |
| Gly Ile Ser Phe | Met Asn Trp Tyr | Gln Gln Lys Pro     | Gly Gln Ala Pro |
| 35              | 40              | 45                  |                 |
| Lys Leu Leu Ile | Tyr Val Ala Ser | Asn Gln Gly Ser     | Gly Ile Pro Ala |
| 50              | 55              | 60                  |                 |
| Arg Phe Ser Gly | Ser Gly Ser Gly | Thr Asp Phe Thr     | Leu Thr Ile Ser |
| 65              | 70              | 75                  | 80              |
| Arg Leu Glu Pro | Glu Asp Phe Ala | Val Tyr Tyr Cys     | Gln Gln Ser Lys |
| 85              | 90              | 95                  |                 |
| Glu Val Pro Trp | Thr Phe Gly Gln | Gly Thr Lys Leu     | Glu Ile Lys Arg |
| 100             | 105             | 110                 |                 |
| Thr Val Ala Ala | Pro Ser Val Phe | Ile Phe Pro Pro     | Ser Asp Glu Gln |
| 115             | 120             | 125                 |                 |
| Leu Lys Ser Gly | Thr Ala Ser Val | Val Cys Leu Leu     | Asn Asn Phe Tyr |
| 130             | 135             | 140                 |                 |
| Pro Arg Glu Ala | Lys Val Gln Trp | Lys Val Asp Asn     | Ala Leu Gln Ser |
| 145             | 150             | 155                 | 160             |
| Gly Asn Ser Gln | Glu Ser Val Thr | Glu Gln Asp Ser     | Lys Asp Ser Thr |
| 165             | 170             | 175                 |                 |
| Tyr Ser Leu Ser | Ser Thr Leu Thr | Leu Ser Lys Ala     | Asp Tyr Glu Lys |
| 180             | 185             | 190                 |                 |
| His Lys Val Tyr | Ala Cys Glu Val | Thr His Gln Gly     | Leu Ser Ser Pro |
| 195             | 200             | 205                 |                 |
| Val Thr Lys Ser | Phe Asn Arg Gly | Glu Cys             |                 |
| 210             | 215             |                     |                 |

<210> 339

<211> 446

<212> PRT

<213> Artificial Sequence

<220>

<223> PD1-5 HC

<400> 339

|                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|
| Glu Val Met Leu | Val Glu Ser Gly | Gly Gly Leu Val | Gln Pro Gly Gly |
| 1               | 5               | 10              | 15              |
| Ser Leu Arg Leu | Ser Cys Thr Ala | Ser Gly Phe Thr | Phe Ser Lys Ser |
| 20              | 25              | 30              |                 |
| Ala Met Ser Trp | Val Arg Gln Ala | Pro Gly Lys Gly | Leu Glu Trp Val |
| 35              | 40              | 45              |                 |
| Ala Tyr Ile Ser | Gly Gly Gly Gly | Asp Thr Tyr Tyr | Ser Ser Ser Val |
| 50              | 55              | 60              |                 |
| Lys Gly Arg Phe | Thr Ile Ser Arg | Asp Asn Ala 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              |                 |

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<210> 340
<211> 218
<212> PRT
<213> Artificial Sequence
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<220>

<223> PD1-5 LC

<400> 340

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly  
1 5 10 15  
Glu Arg Ala Thr Met Ser Cys Arg Ala Ser Glu Asn Ile Asp Val Ser  
20 25 30  
Gly Ile Ser Phe Met Asn Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro  
35 40 45  
Lys Leu Leu Ile Tyr Val Ala Ser Asn Gln Gly Ser Gly Ile Pro Ala  
50 55 60  
Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser  
65 70 75 80  
Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Ser Lys  
85 90 95  
Glu Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg  
100 105 110  
Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln  
115 120 125  
Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr  
130 135 140  
Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser  
145 150 155 160  
Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr  
165 170 175  
Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys  
180 185 190  
His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro  
195 200 205  
Val Thr Lys Ser Phe Asn Arg Gly Glu Cys  
210 215