

SEQUENCE LISTING

<110> ULTRAHUMAN NINE LIMITED

<120> PD1 BINDING AGENTS

<130> ULNL-001/00WO 332952-2003

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<151> 2018-08-16

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<160> 416

<170> PatentIn version 3.5

<210> 1

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Antibody MH8 heavy chain variable (VH) region

<400> 1

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

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

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

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

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

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

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

Thr Val Thr Val Ser Ser
115

<210> 2
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody MH8 light chain variable (VL) region

<400> 2

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 Val Thr Asn Asp
20 25 30

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 3
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody MH4 heavy chain variable (VH) region

<400> 3

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

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

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

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

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

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

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

Thr Val Thr Val Ser Ser
115

<210> 4
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody MH4 light chain variable (VL) region

<400> 4

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 Val Thr Asn Asp
20 25 30

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 5

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Antibody MH12 heavy chain variable (VH) region

<400> 5

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

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

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

Ala Asn Ile Trp Gln Asp Gly Ser Glu Lys Tyr Val Asp Ser Val Lys
50 55 60

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

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

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

Thr Val Thr Val Ser Ser
115

<210> 6
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody MH12 light chain variable (VL) region

<400> 6

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 Val Thr Asn Asp
20 25 30

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 7
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody 09C06 heavy chain variable (VH) region

<400> 7

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

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

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

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

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

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

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

Thr Val Thr Val Ser Ser
115

<210> 8
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody 09C06 light chain variable (VL) region

<400> 8

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 Val Ser Asn Asp
20 25 30

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 9
<211> 327
<212> PRT
<213> Homo sapiens

<400> 9

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

Ser Thr Ser Glu Ser 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 Lys Thr
65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro
100 105 110

Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
115 120 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val

130

135

140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
 145 150 155 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
 165 170 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 180 185 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
 195 200 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 210 215 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
 225 230 235 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 245 250 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 275 280 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
 290 295 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 305 310 315 320

Leu Ser Leu Ser Leu Gly Lys
 325

<210> 10

<211> 327

<212> PRT

<213> Homo sapiens

<400> 10

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

Ser Thr Ser Glu Ser 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 Lys Thr
65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro
100 105 110

Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
115 120 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
130 135 140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145 150 155 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
165 170 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
180 185 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
195 200 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
210 215 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225 230 235 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
245 250 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
275 280 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
290 295 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305 310 315 320

Leu Ser Leu Ser Leu Gly Lys
325

<210> 11
<211> 330
<212> PRT
<213> Homo sapiens

<400> 11

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

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
180 185 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
195 200 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
210 215 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
225 230 235 240

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
245 250 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
260 265 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
275 280 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
290 295 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325 330

<210> 12
<211> 330
<212> PRT
<213> Homo sapiens

<400> 12

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

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Ala Ala Gly Ala Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
180 185 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
195 200 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
210 215 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
225 230 235 240

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
245 250 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
260 265 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
275 280 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
290 295 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325 330

<210> 13
<211> 326
<212> PRT
<213> Homo sapiens

<400> 13

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

Ser Thr Ser Glu Ser 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 Asn Phe Gly Thr Gln Thr
65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Thr Val Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro
100 105 110

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

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
130 135 140

Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly
145 150 155 160

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn
165 170 175

Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp
180 185 190

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro
195 200 205

Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu
210 215 220

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn
225 230 235 240

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
245 250 255

Ser Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
260 265 270

Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
275 280 285

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
290 295 300

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
305 310 315 320

Ser Leu Ser Pro Gly Lys
325

<210> 14
<211> 330
<212> PRT
<213> Homo sapiens

<400> 14

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

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
180 185 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
195 200 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
210 215 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225 230 235 240

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
245 250 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
260 265 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
275 280 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
290 295 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325 330

<210> 15
<211> 329
<212> PRT
<213> Homo sapiens

<400> 15

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

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Ala Ala Gly Ala Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
180 185 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
195 200 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
210 215 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
225 230 235 240

Met Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
245 250 255

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
260 265 270

Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
275 280 285

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
290 295 300

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
305 310 315 320

Lys Ser Leu Ser Leu Ser Pro Gly Lys

<210> 16
 <211> 288
 <212> PRT
 <213> Homo sapiens

<400> 16

Met Gln Ile Pro Gln Ala Pro Trp Pro Val Val Trp Ala Val Leu Gln
 1 5 10 15

Leu Gly Trp Arg Pro Gly Trp Phe Leu Asp Ser Pro Asp Arg Pro Trp
 20 25 30

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

Asn Ala Thr Phe Thr Cys Ser Phe Ser Asn Thr Ser Glu Ser Phe Val
 50 55 60

Leu Asn Trp Tyr Arg Met Ser Pro Ser Asn Gln Thr Asp Lys Leu Ala
 65 70 75 80

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

Val Thr Gln Leu Pro Asn Gly Arg Asp Phe His Met Ser Val Val Arg
 100 105 110

Ala Arg Arg Asn Asp Ser Gly Thr Tyr Leu Cys Gly Ala Ile Ser Leu
 115 120 125

Ala Pro Lys Ala Gln Ile Lys Glu Ser Leu Arg Ala Glu Leu Arg Val
 130 135 140

Thr Glu Arg Arg Ala Glu Val Pro Thr Ala His Pro Ser Pro Ser Pro
 145 150 155 160

Arg Pro Ala Gly Gln Phe Gln Thr Leu Val Val Gly Val Val Gly Gly
 165 170 175

Leu Leu Gly Ser Leu Val Leu Leu Val Trp Val Leu Ala Val Ile Cys
180 185 190

Ser Arg Ala Ala Arg Gly Thr Ile Gly Ala Arg Arg Thr Gly Gln Pro
195 200 205

Leu Lys Glu Asp Pro Ser Ala Val Pro Val Phe Ser Val Asp Tyr Gly
210 215 220

Glu Leu Asp Phe Gln Trp Arg Glu Lys Thr Pro Glu Pro Pro Val Pro
225 230 235 240

Cys Val Pro Glu Gln Thr Glu Tyr Ala Thr Ile Val Phe Pro Ser Gly
245 250 255

Met Gly Thr Ser Ser Pro Ala Arg Arg Gly Ser Ala Asp Gly Pro Arg
260 265 270

Ser Ala Gln Pro Leu Arg Pro Glu Asp Gly His Cys Ser Trp Pro Leu
275 280 285

<210> 17
<211> 288
<212> PRT
<213> Macaca fascicularis

<400> 17

Met Gln Ile Pro Gln Ala Pro Trp Pro Val Val Trp Ala Val Leu Gln
1 5 10 15

Leu Gly Trp Arg Pro Gly Trp Phe Leu Glu Ser Pro Asp Arg Pro Trp
20 25 30

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

Asn Ala Thr Phe Thr Cys Ser Phe Ser Asn Ala Ser Glu Ser Phe Val
50 55 60

Leu Asn Trp Tyr Arg Met Ser Pro Ser Asn Gln Thr Asp Lys Leu Ala
65 70 75 80

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

Val Thr Arg Leu Pro Asn Gly Arg Asp Phe His Met Ser Val Val Arg
100 105 110

Ala Arg Arg Asn Asp Ser Gly Thr Tyr Leu Cys Gly Ala Ile Ser Leu
115 120 125

Ala Pro Lys Ala Gln Ile Lys Glu Ser Leu Arg Ala Glu Leu Arg Val
130 135 140

Thr Glu Arg Arg Ala Glu Val Pro Thr Ala His Pro Ser Pro Ser Pro
145 150 155 160

Arg Pro Ala Gly Gln Phe Gln Ala Leu Val Val Gly Val Val Gly Gly
165 170 175

Leu Leu Gly Ser Leu Val Leu Leu Val Trp Val Leu Ala Val Ile Cys
180 185 190

Ser Arg Ala Ala Gln Gly Thr Ile Glu Ala Arg Arg Thr Gly Gln Pro
195 200 205

Leu Lys Glu Asp Pro Ser Ala Val Pro Val Phe Ser Val Asp Tyr Gly
210 215 220

Glu Leu Asp Phe Gln Trp Arg Glu Lys Thr Pro Glu Pro Pro Ala Pro
225 230 235 240

Cys Val Pro Glu Gln Thr Glu Tyr Ala Thr Ile Val Phe Pro Ser Gly
245 250 255

Leu Gly Thr Ser Ser Pro Ala Arg Arg Gly Ser Ala Asp Gly Pro Arg
260 265 270

Ser Pro Arg Pro Leu Arg Pro Glu Asp Gly His Cys Ser Trp Pro Leu
275 280 285

<210> 18

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

<400> 18

Arg Asp Glu Leu Thr
1 5

<210> 19
<211> 4
<212> PRT
<213> Homo sapiens

<400> 19

Arg Glu Glu Met
1

<210> 20
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is Thr or a conservative substitution of Thr

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is Phe or a conservative substitution of Phe

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa is Ser or a conservative substitution of Ser

<220>
<221> misc_feature
<222> (8)..(8)
<223> Xaa is Gly or any other amino acid

<220>
<221> misc_feature
<222> (9)..(9)
<223> Xaa is Met or a conservative substitution of Met

<220>
<221> misc_feature
<222> (10)..(10)
<223> Xaa is Ser or any other amino acid

<400> 20

Gly Phe Xaa Xaa Xaa Ser Tyr Xaa Xaa Xaa
1 5 10

<210> 21
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<220>
<221> misc_feature
<222> (1)..(1)
<223> Xaa is Val or a conservative substitution of Val

<220>
<221> misc_feature
<222> (2)..(2)
<223> Xaa is Ala or a conservative substitution of Ala

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is Val or Asn

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa is Trp or Lys

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa is Gln or Ala

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa is Asp or Gly

<220>
<221> misc_feature
<222> (10)..(10)

<223> Xaa is Thr or Glu

<220>

<221> misc_feature

<222> (11)..(11)

<223> Xaa is Asn, Lys, or Ser

<220>

<221> misc_feature

<222> (13)..(13)

<223> Xaa is Asn or Val

<400> 21

Xaa	Xaa	Xaa	Ile	Xaa	Xaa	Xaa	Gly	Ser	Xaa	Xaa	Tyr	Xaa	Asp	Ser	Val
1			5				10						15		

Lys Gly

<210> 22

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

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<220>

<221> misc_feature

<222> (1)..(1)

<223> Xaa is Ala or any other amino acid

<220>

<221> misc_feature

<222> (2)..(2)

<223> Xaa is Tyr or a conservative substitution of Tyr

<220>

<221> misc_feature

<222> (4)..(4)

<223> Xaa is Asn or any other amino acid

<220>

<221> misc_feature

<222> (5)..(5)

<223> Xaa is Tyr or a conservative substitution of Tyr

<220>

<221> misc_feature

<222> (6)..(6)

<223> Xaa is Trp or any other amino acid

<220>

<221> misc_feature

<222> (8)..(8)

<223> Xaa is Ile or any other amino acid

<220>

<221> misc_feature

<222> (9)..(9)

<223> Xaa is Asp or a conservative substitution of Asp

<220>

<221> misc_feature

<222> (10)..(10)

<223> Xaa is Val or any other amino acid

<400> 22

Xaa	Xaa	Gly	Xaa	Xaa	Xaa	Tyr	Xaa	Xaa	Xaa
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<210> 23

<211> 10

<212> PRT

<213> Mus musculus

<400> 23

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

<210> 24

<211> 16

<212> PRT

<213> Mus musculus

<400> 24

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

<210> 25

<211> 10

<212> PRT

<213> Mus musculus

<400> 25

Ala	Tyr	Gly	Asn	Tyr	Trp	Tyr	Ile	Asp	Val
1				5					10

<210> 26
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (4)..(4)
<223> Xaa is Gln or Glu

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa is Ser or a conservative substitution of Ser

<220>
<221> misc_feature
<222> (10)..(10)
<223> Xaa is Leu or a conservative substitution of Leu

<400> 26

Lys Ser Ser Xaa Ser Val Xaa Asn Asp Xaa Ala
1 5 10

<210> 27
<211> 7
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<213> Artificial Sequence

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<220>
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<222> (3)..(3)
<223> Xaa is Phe or any other amino acid

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is His or any other amino acid

<220>
<221> misc_feature
<222> (7)..(7)

<223> Xaa is Ser or a conservative substitution of Ser

<400> 27

Tyr Ala Xaa Xaa Arg Phe Xaa
1 5

<210> 28

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion LCDR3

<220>

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<223> Xaa is Gln or any other amino acid

<220>

<221> misc_feature

<222> (3)..(3)

<223> Xaa is Ala or any other amino acid

<220>

<221> misc_feature

<222> (6)..(6)

<223> Xaa is Thr or any other amino acid

<220>

<221> misc_feature

<222> (8)..(8)

<223> Xaa is Tyr or any other amino acid

<400> 28

Xaa Gln Xaa Tyr Ser Xaa Pro Xaa Thr
1 5

<210> 29

<211> 11

<212> PRT

<213> Mus musculus

<400> 29

Lys Ala Ser Gln Ser Val Ser Asn Asp Val Ala
1 5 10

<210> 30
<211> 11
<212> PRT
<213> Mus musculus

<400> 30

Lys Ser Ser Gln Glu Val Ser Asn Asp Val Ala
1 5 10

<210> 31
<211> 7
<212> PRT
<213> Mus musculus

<400> 31

Tyr Ala Phe His Arg Phe Thr
1 5

<210> 32
<211> 9
<212> PRT
<213> Mus musculus

<400> 32

His Gln Ala Tyr Ser Ser Pro Tyr Thr
1 5

<210> 33
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 33

Gly Phe Thr Phe Ser Ser Tyr Gly Met Ser
1 5 10

<210> 34
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 34

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

Lys Gly

<210> 35

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR3

<400> 35

Ala Tyr Gly Asn Tyr Trp Tyr Ile Asp Arg
1 5 10

<210> 36

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion LCDR1

<400> 36

Lys Ser Ser Gln Ser Val Thr Asn Asp Val Ala
1 5 10

<210> 37

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion LCDR2

<400> 37

Tyr Ala Tyr His Arg Phe Thr
1 5

<210> 38

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

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion LCDR3

<400> 38

His Gln Ala Tyr Ser Ser Pro Tyr Thr
1 5

<210> 39
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 39

Gly Phe Ser Leu Ser Ser Tyr Gly Met Ser
1 5 10

<210> 40
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
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<400> 40

Val Ala Val Ile Trp Gln Asp Gly Ser Thr Asn Tyr Val Asp Ser Val
1 5 10 15

Lys Gly

<210> 41
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 41

Val Ala Asn Ile Trp Gln Asp Gly Ser Glu Lys Tyr Val Asp Ser Val
1 5 10 15

Lys Gly

<210> 42
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 42

Gly Phe Ser Phe Ser Ser Tyr Gly Met His
1 5 10

<210> 43
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 43

Val Ala Asn Ile Trp Gln Asp Gly Ser Thr Asn Tyr Val Asp Ser Val
1 5 10 15

Lys Gly

<210> 44
<211> 11
<212> PRT
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<220>
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<400> 44

Lys Ser Ser Gln Ser Val Ser Asn Asp Val Ala
1 5 10

<210> 45
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion LCDR2

<400> 45

Tyr Ala Ser His Arg Phe Thr
1 5

<210> 46
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 46

His Gln Ala Tyr Ser Thr Pro Tyr Thr
1 5

<210> 47
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 47

Gly Phe Ser Phe Thr Ser Tyr Gly Met Ser
1 5 10

<210> 48
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 48

Leu Ala Asn Ile Trp Gln Asp Gly Ser Thr Asn Tyr Val Asp Ser Val

1 5 10 15

Lys Gly

<210> 49
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 49

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

<210> 50
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 50

Val Gly Val Ile Trp Gln Asp Gly Ser Glu Asn Tyr Val Asp Ser Val
1 5 10 15

Lys Gly

<210> 51
<211> 11
<212> PRT
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<220>
<223> anti-PD1 antibody molecule or antigen-binding portion LCDR1

<400> 51

Lys Ser Ser Gln Ser Val Ser Asn Asp Leu Ala
1 5 10

<210> 52

<211> 9
<212> PRT
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<220>
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<400> 52

Gln Gln Ala Tyr Ser Thr Pro Tyr Thr
1 5

<210> 53
<211> 18
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<220>
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<400> 53

Leu Ala Asn Ile Trp Gln Asp Gly Ser Glu Asn Tyr Val Asp Ser Val
1 5 10 15

Lys Gly

<210> 54
<211> 10
<212> PRT
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<220>
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<400> 54

Gly Phe Thr Leu Ser Ser Tyr Gly Met His
1 5 10

<210> 55
<211> 18
<212> PRT
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<220>
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<400> 55

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

Lys Gly

<210> 56
<211> 10
<212> PRT
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<220>
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<400> 56

Ala Tyr Gly Asn Tyr Met Tyr Ile Asp Val
1 5 10

<210> 57
<211> 10
<212> PRT
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<220>
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<400> 57

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

<210> 58
<211> 18
<212> PRT
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<220>
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<400> 58

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

Lys Gly

<210> 59
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 59

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

<210> 60
<211> 18
<212> PRT
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<220>
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<400> 60

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

Lys Gly

<210> 61
<211> 10
<212> PRT
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<220>
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<400> 61

Gly Tyr Gly Asn Tyr Trp Tyr Ile Asp Val
1 5 10

<210> 62
<211> 10
<212> PRT
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<220>
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<222> (9)..(9)
<223> Xaa is Met or Val

<220>
<221> misc_feature
<222> (10)..(10)
<223> Xaa is Ser or His

<400> 62

Gly Phe Thr Phe Ser Ser Tyr Gly Xaa Xaa
1 5 10

<210> 63
<211> 18
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<220>
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<223> Xaa is Val or Asn

<220>
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<222> (5)..(5)
<223> Xaa is Trp or Lys

<220>
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<222> (10)..(10)
<223> Xaa is Glu or Thr

<220>
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<222> (11)..(11)
<223> Xaa is Asn or Lys

<220>
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<222> (13)..(13)
<223> Xaa is Val or Asn

<400> 63

Val Ala Xaa Ile Xaa Gln Asp Gly Ser Xaa Xaa Tyr Xaa Asp Ser Val
1 5 10 15

Lys Gly

<210> 64
<211> 10
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<220>
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<223> Xaa is Ala, Asp, Glu, Gly, His, Ile, Lys, Leu, Gln,
Ser, Val or Trp

<220>
<221> misc_feature
<222> (2)..(2)
<223> Xaa is Tyr, Phe or Trp

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is Asn, Ala, Glu, Phe, Gly, His, Ile, Gln, Arg,
Ser, Thr, Val, Trp or Tyr

<220>
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<222> (5)..(5)
<223> Xaa is Tyr, Val or Trp

<220>
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<222> (6)..(6)
<223> Xaa is Trp, Phe, His, Met, Pro, Gln, Ser or Val

<220>
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<222> (8)..(8)
<223> Xaa is Ile, Leu, Met, Ser, Thr, Val or Tyr

<220>
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<222> (9)..(9)
<223> Xaa is Asp or Glu

<220>
<221> misc_feature
<222> (10)..(10)
<223> Xaa is Val, Ala, Glu, Phe, Gly, His, Ile, Gln, Arg,
Ser, Thr, Trp or Tyr

<400> 64

Xaa Xaa Gly Xaa Xaa Xaa Tyr Xaa Xaa Xaa
1 5 10

<210> 65
<211> 10
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<220>
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<220>
<221> misc_feature
<222> (10)..(10)
<223> Xaa is Ser or His

<400> 65

Gly Phe Thr Phe Ser Ser Tyr Gly Met Xaa
1 5 10

<210> 66
<211> 18
<212> PRT
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<220>
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<220>
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<222> (3)..(3)
<223> Xaa is Val or Asn

<220>
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<222> (10)..(10)
<223> Xaa is Glu or Thr

<220>
<221> misc_feature

<222> (11)..(11)
<223> Xaa is Asn or Lys

<400> 66

Val	Ala	Xaa	Ile	Trp	Gln	Asp	Gly	Ser	Xaa	Xaa	Tyr	Val	Asp	Ser	Val
1			5					10					15		

Lys Gly

<210> 67
<211> 10
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<223> Xaa is Ala or Gly

<220>
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<222> (6)..(6)
<223> Xaa is Trp or Met

<220>
<221> misc_feature
<222> (10)..(10)
<223> Xaa is Arg or Val

<400> 67

Xaa	Tyr	Gly	Asn	Tyr	Xaa	Tyr	Ile	Asp	Xaa
1			5					10	

<210> 68
<211> 11
<212> PRT
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<220>
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<222> (4)..(4)
<223> Xaa is Gln or Glu

<220>
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<222> (7)..(7)
<223> Xaa is Ser, Gly or Thr

<220>
<221> misc_feature
<222> (10)..(10)
<223> Xaa is Leu or Val

<400> 68

Lys Ser Ser Xaa Ser Val Xaa Asn Asp Xaa Ala
1 5 10

<210> 69
<211> 7
<212> PRT
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<220>
<223> anti-PD1 antibody molecule or antigen-binding portion LCDR2

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is Phe, Ser or Tyr

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is His, Pro or Thr

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa is Ser or Thr

<400> 69

Tyr Ala Xaa Xaa Arg Phe Xaa
1 5

<210> 70
<211> 9
<212> PRT
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<220>
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<222> (1)..(1)
<223> Xaa is Gln or His

<220>
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<222> (3)..(3)
<223> Xaa is Ala or Ser

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa is Thr, Asn or Ser

<400> 70

Xaa Gln Xaa Tyr Ser Xaa Pro Tyr Thr
1 5

<210> 71
<211> 11
<212> PRT
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<220>
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<222> (7)..(7)
<223> Xaa is Ser, Gly or Thr

<220>
<221> misc_feature
<222> (10)..(10)
<223> Xaa is Leu or Val

<400> 71

Lys Ser Ser Gln Ser Val Xaa Asn Asp Xaa Ala
1 5 10

<210> 72
<211> 7
<212> PRT
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<220>
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<220>
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<222> (3)..(3)
<223> Xaa is Ser or Tyr

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa is Ser or Thr

<400> 72

Tyr Ala Xaa His Arg Phe Xaa
1 5

<210> 73
<211> 9
<212> PRT
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<220>
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<220>
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<222> (1)..(1)
<223> Xaa is Gln or His

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa is Thr or Ser

<400> 73

Xaa Gln Ala Tyr Ser Xaa Pro Tyr Thr
1 5

<210> 74
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion LCDR1

<400> 74

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

<210> 75

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion LCDR3

<400> 75

Gln Gln Ala Tyr Ser Ser Pro Tyr Thr
1 5

<210> 76

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion LCDR1

<400> 76

Lys Ser Ser Gln Ser Val Thr Asn Asp Leu Ala
1 5 10

<210> 77

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion LCDR1

<400> 77

Lys Ser Ser Gln Ser Val Gly Asn Asp Leu Ala
1 5 10

<210> 78

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion LCDR2

<400> 78

Tyr Ala Tyr His Arg Phe Ser
1 5

<210> 79

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion LCDR2

<400> 79

Tyr Ala Ser His Arg Phe Ser
1 5

<210> 80

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion partial HCDR2

<400> 80

Tyr Val Asp Ser Val Lys Gly
1 5

<210> 81

<211> 9

<212> PRT

<213> Homo sapiens

<400> 81

Val Lys Gly Arg Phe Thr Ile Ser Arg
1 5

<210> 82

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 82

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

<210> 83

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> LAF sequence

<400> 83

Leu Thr Ser Tyr Gly Val His Trp Ile
1 5

<210> 84

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> GE peptide

<220>

<221> misc_feature

<222> (4)..(4)

<223> Xaa is His or Ser

<400> 84

Tyr Gly Met Xaa Trp Val Arg Gln Ala
1 5

<210> 85

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> TCED+ and LAF peptide

<400> 85

Tyr Trp Tyr Ile Asp Val Trp Gly Gln
1 5

<210> 86
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> HAF peptide

<400> 86

Leu Glu Trp Ile Gly Val Ile Tyr Ala
1 5

<210> 87
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> LAF peptide

<400> 87

Ile Gly Val Ile Tyr Ala Asp Gly Ser
1 5

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

<220>
<223> HAF peptide

<400> 88

Leu Glu Trp Val Gly Val Ile Trp Gln
1 5

<210> 89
<211> 10
<212> PRT
<213> Mus musculus

<400> 89

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

<210> 90
<211> 5
<212> PRT
<213> Mus musculus

<400> 90

Ser Tyr Gly Val His
1 5

<210> 91
<211> 7
<212> PRT
<213> Mus musculus

<400> 91

Gly Phe Ser Leu Thr Ser Tyr
1 5

<210> 92
<211> 8
<212> PRT
<213> Mus musculus

<400> 92

Gly Phe Ser Leu Thr Ser Tyr Gly
1 5

<210> 93
<211> 6
<212> PRT
<213> Mus musculus

<400> 93

Thr Ser Tyr Gly Val His
1 5

<210> 94
<211> 18
<212> PRT
<213> Mus musculus

<400> 94

Leu Gly Val Ile Trp Ala Gly Gly Ser Thr Asn Tyr Asn Ser Ala Leu
1 5 10 15

Met Ser

<210> 95
<211> 16
<212> PRT
<213> Mus musculus

<400> 95

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

<210> 96
<211> 6
<212> PRT
<213> Mus musculus

<400> 96

Trp Ala Gly Gly Ser Thr
1 5

<210> 97
<211> 8
<212> PRT
<213> Mus musculus

<400> 97

Ile Trp Ala Gly Gly Ser Thr Asn
1 5

<210> 98
<211> 15
<212> PRT
<213> Mus musculus

<400> 98

Ile Trp Ala Gly Gly Ser Thr Asn Tyr Asn Ser Ala Leu Met Ser
1 5 10 15

<210> 99
<211> 10
<212> PRT
<213> Mus musculus

<400> 99

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

<210> 100

<211> 12

<212> PRT

<213> Mus musculus

<400> 100

Leu Gly Val Ile Trp Ala Gly Gly Ser Thr Asn Tyr
1 5 10

<210> 101

<211> 10

<212> PRT

<213> Mus musculus

<400> 101

Ala Tyr Gly Asn Tyr Trp Tyr Ile Asp Val
1 5 10

<210> 102

<211> 12

<212> PRT

<213> Mus musculus

<400> 102

Ala Arg Ala Tyr Gly Asn Tyr Trp Tyr Ile Asp Val
1 5 10

<210> 103

<211> 9

<212> PRT

<213> Mus musculus

<400> 103

Ala Tyr Gly Asn Tyr Trp Tyr Ile Asp
1 5

<210> 104

<211> 11

<212> PRT

<213> Mus musculus

<400> 104

Ala Arg Ala Tyr Gly Asn Tyr Trp Tyr Ile Asp
1 5 10

<210> 105

<211> 11

<212> PRT

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<400> 105

Lys Ala Ser Gln Ser Val Ser Asn Asp Val Ala
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<210> 106

<211> 6

<212> PRT

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<400> 106

Gln Ser Val Ser Asn Asp
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<210> 107

<211> 8

<212> PRT

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<400> 107

Ala Ser Gln Ser Val Ser Asn Asp
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<210> 108

<211> 7

<212> PRT

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<400> 108

Ser Asn Asp Val Ala Trp Tyr
1 5

<210> 109

<211> 7

<212> PRT

<213> Mus musculus

<400> 109

Tyr Ala Phe His Arg Phe Thr
1 5

<210> 110

<211> 10

<212> PRT

<213> Mus musculus

<400> 110

Leu Leu Ile Tyr Tyr Ala Phe His Arg Phe
1 5 10

<210> 111

<211> 9

<212> PRT

<213> Mus musculus

<400> 111

His Gln Ala Tyr Ser Ser Pro Tyr Thr
1 5

<210> 112

<211> 6

<212> PRT

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<400> 112

Ala Tyr Ser Ser Pro Tyr
1 5

<210> 113

<211> 8

<212> PRT

<213> Mus musculus

<400> 113

His Gln Ala Tyr Ser Ser Pro Tyr
1 5

<210> 114

<211> 118

<212> PRT
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<400> 114

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

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

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

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

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

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

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

Thr Val Thr Val Ser Ser
115

<210> 115
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Hu317 VH IGHV4-4

<400> 115

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

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

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

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

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

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

Thr Val Thr Val Ser Ser
115

<210> 116
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> VH GRAFT IGHV3-7

<400> 116

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

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

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

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

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

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

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

Thr Val Thr Val Ser Ser
115

<210> 117
<211> 107
<212> PRT
<213> Mus musculus

<400> 117

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

Asn Tyr Ala Phe His Arg Phe Thr Gly Val Pro Asp Arg Phe Thr Gly
50 55 60

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

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

Thr Phe Gly Gly Gly Thr Lys Leu Glu Met Lys
100 105

<210> 118
<211> 107
<212> PRT
<213> Artificial Sequence

<220>

<223> Hu317 VL IGKV4-1

<400> 118

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 Glu Ser Val Ser Asn Asp
20 25 30

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 119

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> VL GRAFT IGKV4-1

<400> 119

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 Val Ser Asn Asp
20 25 30

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

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

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

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

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 120
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 120

Gly Phe Asn Phe Ser Ser Tyr Gly Met His
1 5 10

<210> 121
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 121

Gly Phe Ser Phe Ser Ser Tyr Gly Met Ser
1 5 10

<210> 122
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 122

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

<210> 123
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 123

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

<210> 124
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 124

Gly Phe Ser Phe Ser Ser Tyr Trp Met His
1 5 10

<210> 125
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 125

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

<210> 126
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 126

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

<210> 127

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 127

Gly Phe Ser Phe Thr Ser Tyr Trp Met His
1 5 10

<210> 128

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 128

Gly Phe Ser Leu Ser Ser Tyr Gly Ile Ser
1 5 10

<210> 129

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 129

Gly Phe Ser Leu Ser Ser Tyr Gly Met His
1 5 10

<210> 130

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 130

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

<210> 131

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 131

Gly	Phe	Ser	Leu	Ser	Ser	Tyr	Gly	Val	Ser
1				5					10

<210> 132

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 132

Gly	Phe	Ser	Leu	Ser	Ser	Tyr	Trp	Met	His
1				5					10

<210> 133

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 133

Gly	Phe	Ser	Leu	Thr	Ser	Tyr	Trp	Met	His
1				5					10

<210> 134

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 134

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

<210> 135

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 135

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

<210> 136

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 136

Gly	Phe	Thr	Phe	Thr	Ser	Tyr	Gly	Met	Ser
1				5					10

<210> 137

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 137

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

<210> 138

<211> 10

<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 138

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

<210> 139
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 139

Gly	Phe	Thr	Leu	Ser	Ser	Tyr	Gly	Met	Ser
1				5					10

<210> 140
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 140

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

<210> 141
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 141

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

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

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 142

Gly	Phe	Thr	Leu	Ser	Ser	Tyr	Trp	Met	His
1				5					10

<210> 143
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 143

Gly	Phe	Thr	Leu	Thr	Ser	Tyr	Gly	Met	His
1				5					10

<210> 144
<211> 10
<212> PRT
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<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 144

Gly	Phe	Thr	Leu	Thr	Ser	Tyr	Gly	Met	Ser
1				5					10

<210> 145
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 145

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

<210> 146
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR1

<400> 146

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

<210> 147
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 147

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

Lys Gly

<210> 148
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 148

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

Lys Gly

<210> 149
<211> 18

<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 149

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

Lys Gly

<210> 150
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 150

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

Lys Gly

<210> 151
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 151

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

Lys Gly

<210> 152
<211> 18

<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 152

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

Lys Gly

<210> 153
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 153

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

Lys Gly

<210> 154
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 154

Leu	Ala	Asn	Ile	Lys	Gln	Asp	Gly	Ser	Glu	Lys	Tyr	Val	Asp	Ser	Val
1				5					10					15	

Lys Gly

<210> 155
<211> 18

<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 155

Leu	Ala	Asn	Ile	Lys	Gln	Asp	Gly	Ser	Glu	Asn	Tyr	Val	Asp	Ser	Val
1				5				10					15		

Lys Gly

<210> 156
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 156

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

Lys Gly

<210> 157
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 157

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

Lys Gly

<210> 158
<211> 18

<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 158

Leu	Ala	Asn	Ile	Trp	Ala	Asp	Gly	Ser	Glu	Lys	Tyr	Asn	Asp	Ser	Val
1				5					10					15	

Lys Gly

<210> 159
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 159

Leu	Ala	Asn	Ile	Trp	Ala	Asp	Gly	Ser	Glu	Lys	Tyr	Val	Asp	Ser	Val
1				5					10					15	

Lys Gly

<210> 160
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 160

Leu	Ala	Asn	Ile	Trp	Ala	Asp	Gly	Ser	Glu	Asn	Tyr	Asn	Asp	Ser	Val
1				5					10					15	

Lys Gly

<210> 161
<211> 18

<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 161

Leu	Ala	Asn	Ile	Trp	Ala	Asp	Gly	Ser	Glu	Asn	Tyr	Val	Asp	Ser	Val
1				5					10					15	

Lys Gly

<210> 162
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 162

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

Lys Gly

<210> 163
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 163

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

Lys Gly

<210> 164
<211> 18

<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 164

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

Lys Gly

<210> 165
<211> 18
<212> PRT
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<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 165

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

Lys Gly

<210> 166
<211> 18
<212> PRT
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<220>
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<400> 166

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

Lys Gly

<210> 167
<211> 18

<212> PRT
<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 167

Leu	Ala	Asn	Ile	Trp	Gln	Asp	Gly	Ser	Glu	Lys	Tyr	Asn	Asp	Ser	Val
1				5					10					15	

Lys Gly

<210> 168
<211> 18
<212> PRT
<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 168

Leu	Ala	Asn	Ile	Trp	Gln	Asp	Gly	Ser	Glu	Lys	Tyr	Val	Asp	Ser	Val
1				5					10					15	

Lys Gly

<210> 169
<211> 18
<212> PRT
<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 169

Leu	Ala	Asn	Ile	Trp	Gln	Asp	Gly	Ser	Glu	Asn	Tyr	Asn	Asp	Ser	Val
1				5					10					15	

Lys Gly

<210> 170
<211> 18

<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 170

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

Lys Gly

<210> 171
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
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<400> 171

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

Lys Gly

<210> 172
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
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<400> 172

Leu	Ala	Asn	Ile	Trp	Gln	Asp	Gly	Ser	Thr	Asn	Tyr	Asn	Asp	Ser	Val
1				5					10					15	

Lys Gly

<210> 173
<211> 18

<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 173

Leu	Ala	Asn	Ile	Trp	Gln	Gly	Gly	Ser	Glu	Asn	Tyr	Val	Asp	Ser	Val
1				5					10					15	

Lys Gly

<210> 174
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 174

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

Lys Gly

<210> 175
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 175

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

Lys Gly

<210> 176
<211> 18

<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 176

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

Lys Gly

<210> 177
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 177

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

Lys Gly

<210> 178
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 178

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

Lys Gly

<210> 179
<211> 18

<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 179

Leu	Ala	Val	Ile	Lys	Gln	Asp	Gly	Ser	Glu	Lys	Tyr	Asn	Asp	Ser	Val
1				5					10					15	

Lys Gly

<210> 180
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 180

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Lys Gly

<210> 181
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Lys Gly

<210> 183
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Lys Gly

<210> 184
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Lys Gly

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Lys Gly

<210> 186
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<400> 186

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Lys Gly

<210> 187
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<400> 187

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Lys Gly

<210> 188
<211> 18

<212> PRT
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<400> 188

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Lys Gly

<210> 189
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<400> 189

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Lys Gly

<210> 190
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<400> 190

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Lys Gly

<210> 191
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Lys Gly

<210> 192
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<400> 192

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Lys Gly

<210> 193
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<220>
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<400> 193

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Lys Gly

<210> 194
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<212> PRT
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<400> 194

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Lys Gly

<210> 195
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<400> 195

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Lys Gly

<210> 196
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<220>
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<400> 196

Leu	Ala	Val	Ile	Trp	Gln	Asp	Gly	Ser	Thr	Lys	Tyr	Val	Asp	Ser	Val
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Lys Gly

<210> 197
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<400> 197

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Lys Gly

<210> 198
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Lys Gly

<210> 199
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<400> 199

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Lys Gly

<210> 200
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Lys Gly

<210> 201
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<220>
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<400> 201

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Lys Gly

<210> 202
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<400> 202

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Lys Gly

<210> 203
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<400> 203

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Lys Gly

<210> 204
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<400> 204

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Lys Gly

<210> 205
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<400> 205

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Lys Gly

<210> 206
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Lys Gly

<210> 207
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<400> 207

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Lys Gly

<210> 208
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<212> PRT
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<220>
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<400> 208

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Lys Gly

<210> 209
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<212> PRT
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<400> 209

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Lys Gly

<210> 210
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<220>
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<400> 210

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Lys Gly

<210> 211
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<400> 211

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Lys Gly

<210> 212
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<400> 212

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Lys Gly

<210> 213
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<400> 213

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Lys Gly

<210> 214
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<400> 214

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Lys Gly

<210> 215
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<212> PRT
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<400> 215

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Lys Gly

<210> 216
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<400> 216

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Lys Gly

<210> 217
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<220>
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<400> 217

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Lys Gly

<210> 218
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<212> PRT
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<400> 218

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Lys Gly

<210> 219
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<220>
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<400> 219

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Lys Gly

<210> 220
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<220>
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<400> 220

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Lys Gly

<210> 221
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<212> PRT
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<220>
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<400> 221

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Lys Gly

<210> 222
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<400> 222

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Lys Gly

<210> 223
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<400> 223

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Lys Gly

<210> 224
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<212> PRT
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<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 224

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Lys Gly

<210> 225
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<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 225

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Lys Gly

<210> 226
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<400> 226

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Lys Gly

<210> 227
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<212> PRT
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<400> 227

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Lys Gly

<210> 228
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<400> 228

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Lys Gly

<210> 229
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<212> PRT
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<220>
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<400> 229

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Lys Gly

<210> 230
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<212> PRT
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<220>
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<400> 230

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Lys Gly

<210> 231
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<400> 231

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Lys Gly

<210> 232
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<220>
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<400> 232

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Lys Gly

<210> 233
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<212> PRT
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<400> 233

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Lys Gly

<210> 234
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<400> 234

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Lys Gly

<210> 235
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<400> 235

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Lys Gly

<210> 236
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<212> PRT
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<220>
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<400> 236

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Lys Gly

<210> 237
<211> 18
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<220>
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<400> 237

Leu	Gly	Val	Ile	Lys	Gln	Asp	Gly	Ser	Thr	Lys	Tyr	Val	Asp	Ser	Val
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Lys Gly

<210> 238
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<220>
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<400> 238

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Lys Gly

<210> 239
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<212> PRT
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<220>
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<400> 239

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Lys Gly

<210> 240
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<220>
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<400> 240

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Lys Gly

<210> 241
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<400> 241

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Lys Gly

<210> 242
<211> 18

<212> PRT
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<220>
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<400> 242

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Lys Gly

<210> 243
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<220>
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<400> 243

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Lys Gly

<210> 244
<211> 18
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<220>
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<400> 244

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Lys Gly

<210> 245
<211> 18

<212> PRT
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<220>
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<400> 245

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Lys Gly

<210> 246
<211> 18
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<220>
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<400> 246

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Lys Gly

<210> 247
<211> 18
<212> PRT
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<220>
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<400> 247

Leu	Gly	Val	Ile	Trp	Ala	Gly	Gly	Ser	Thr	Asn	Tyr	Asn	Asp	Ser	Val
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Lys Gly

<210> 248
<211> 18

<212> PRT
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<220>
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<400> 248

Leu	Gly	Val	Ile	Trp	Pro	Asp	Gly	Ser	Thr	Asn	Tyr	Asn	Asp	Ser	Val
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Lys Gly

<210> 249
<211> 18
<212> PRT
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<220>
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<400> 249

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1				5					10					15	

Lys Gly

<210> 250
<211> 18
<212> PRT
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<220>
<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 250

Leu	Gly	Val	Ile	Trp	Gln	Asp	Gly	Ser	Glu	Lys	Tyr	Val	Asp	Ser	Val
1				5					10					15	

Lys Gly

<210> 251
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<212> PRT
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<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 251

Leu	Gly	Val	Ile	Trp	Gln	Asp	Gly	Ser	Glu	Asn	Tyr	Asn	Asp	Ser	Val
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Lys Gly

<210> 252
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<212> PRT
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<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

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Leu	Gly	Val	Ile	Trp	Gln	Asp	Gly	Ser	Glu	Asn	Tyr	Val	Asp	Ser	Val
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Lys Gly

<210> 253
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<223> anti-PD1 antibody molecule or antigen-binding portion HCDR2

<400> 253

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Lys Gly

<210> 254
<211> 18

<212> PRT
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<220>
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<400> 254

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Lys Gly

<210> 255
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<220>
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<400> 255

Leu	Gly	Val	Ile	Trp	Gln	Asp	Gly	Ser	Thr	Asn	Tyr	Asn	Asp	Ser	Val
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Lys Gly

<210> 256
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<400> 256

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Lys Gly

<210> 257
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<212> PRT
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<220>
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<400> 257

Leu	Gly	Val	Ile	Trp	Gln	Gly	Gly	Ser	Thr	Lys	Tyr	Asn	Asp	Ser	Val
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Lys Gly

<210> 258
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<400> 258

Leu	Gly	Val	Ile	Trp	Gln	Gly	Gly	Ser	Thr	Asn	Tyr	Asn	Asp	Ser	Val
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Lys Gly

<210> 259
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<400> 259

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Lys Gly

<210> 260
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<212> PRT
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<400> 260

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Lys Gly

<210> 261
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<400> 261

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Lys Gly

<210> 262
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<400> 262

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Lys Gly

<210> 263
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<212> PRT
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<220>
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<400> 263

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Lys Gly

<210> 264
<211> 18
<212> PRT
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<220>
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<400> 264

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Lys Gly

<210> 265
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<212> PRT
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<220>
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<400> 265

Val	Ala	Asn	Ile	Lys	Gln	Asp	Gly	Ser	Thr	Asn	Tyr	Asn	Asp	Ser	Val
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Lys Gly

<210> 266
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<212> PRT
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<220>
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Lys Gly

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<400> 267

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Lys Gly

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<400> 268

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Lys Gly

<210> 269
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<212> PRT
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<400> 269

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Lys Gly

<210> 270
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<212> PRT
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<400> 270

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Lys Gly

<210> 271
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<400> 271

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Lys Gly

<210> 272
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<400> 272

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Lys Gly

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<400> 273

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Lys Gly

<210> 274
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<400> 274

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Lys Gly

<210> 275
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<212> PRT
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<220>
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<400> 275

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Lys Gly

<210> 276
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<212> PRT
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<220>
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<400> 276

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Lys Gly

<210> 277
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<400> 277

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

<210> 278
<211> 18

<212> PRT
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<400> 278

Val	Ala	Val	Ile	Lys	Gln	Asp	Gly	Ser	Glu	Asn	Tyr	Val	Asp	Ser	Val
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Lys Gly

<210> 279
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<220>
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<400> 279

Val	Ala	Val	Ile	Lys	Gln	Asp	Gly	Ser	Thr	Lys	Tyr	Asn	Asp	Ser	Val
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Lys Gly

<210> 280
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<220>
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<400> 280

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Lys Gly

<210> 281
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<400> 281

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Lys Gly

<210> 282
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<400> 282

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Lys Gly

<210> 283
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<400> 283

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Lys Gly

<210> 284
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<400> 284

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Lys Gly

<210> 285
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<400> 285

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Lys Gly

<210> 286
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<400> 286

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Lys Gly

<210> 287
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<212> PRT
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<400> 287

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Lys Gly

<210> 288
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<220>
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<400> 288

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Lys Gly

<210> 289
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<400> 289

Val	Ala	Val	Ile	Trp	Gln	Asp	Gly	Ser	Glu	Asn	Tyr	Val	Asp	Ser	Val
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Lys Gly

<210> 290
<211> 18

<212> PRT
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<220>
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<400> 290

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Lys Gly

<210> 291
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<400> 291

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Lys Gly

<210> 292
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<400> 292

Val	Ala	Val	Ile	Trp	Gln	Asp	Gly	Ser	Thr	Asn	Tyr	Asn	Asp	Ser	Val
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Lys Gly

<210> 293
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<212> PRT
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<220>
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<400> 293

Val	Ala	Val	Ile	Trp	Gln	Gly	Gly	Ser	Thr	Lys	Tyr	Asn	Asp	Ser	Val
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Lys Gly

<210> 294
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<400> 294

Val	Gly	Asn	Ile	Lys	Ala	Asp	Gly	Ser	Glu	Asn	Tyr	Asn	Asp	Ser	Val
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Lys Gly

<210> 295
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<400> 295

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

<210> 296
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<400> 296

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

<210> 297
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<400> 297

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Lys Gly

<210> 298
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<400> 298

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Lys Gly

<210> 299
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<400> 299

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Lys Gly

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<400> 300

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Lys Gly

<210> 301
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<400> 301

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Lys Gly

<210> 302
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<212> PRT
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<220>
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<400> 302

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Lys Gly

<210> 303
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<220>
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<400> 303

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Lys Gly

<210> 304
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<400> 304

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Lys Gly

<210> 305
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<400> 305

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Lys Gly

<210> 306
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<400> 306

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Lys Gly

<210> 307
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<400> 307

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Lys Gly

<210> 308
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<400> 308

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Lys Gly

<210> 309
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<400> 309

Val	Gly	Asn	Ile	Trp	Gln	Asp	Gly	Ser	Glu	Lys	Tyr	Val	Asp	Ser	Val
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Lys Gly

<210> 310
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<400> 310

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Lys Gly

<210> 311
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<400> 311

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Lys Gly

<210> 312
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<400> 312

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Lys Gly

<210> 313
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<400> 313

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Lys Gly

<210> 314
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<400> 314

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Lys Gly

<210> 315
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<400> 315

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Lys Gly

<210> 316
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<400> 316

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Lys Gly

<210> 317
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<400> 317

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1				5					10					15	

Lys Gly

<210> 318
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<220>
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<400> 318

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Lys Gly

<210> 319
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<400> 319

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Lys Gly

<210> 320
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<212> PRT
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<220>
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<400> 320

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

Lys Gly

<210> 321
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<400> 321

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Lys Gly

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Lys Gly

<210> 323
<211> 18

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Lys Gly

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Lys Gly

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Lys Gly

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Lys Gly

<210> 327
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Lys Gly

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Lys Gly

<210> 329
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<400> 329

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Lys Gly

<210> 330
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Lys Gly

<210> 331
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Lys Gly

<210> 332
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Lys Gly

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Lys Gly

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Lys Gly

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Lys Gly

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Lys Gly

<210> 337
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<210> 343

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<400> 343

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<210> 344

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<400> 344

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<210> 345

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<210> 346

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<400> 346

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<210> 347
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<400> 347

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1 5 10

<210> 348
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<400> 349

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<400> 350

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<400> 351

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1 5 10

<210> 352
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<210> 354
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<210> 357
<211> 10
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<400> 357

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1 5 10

<210> 358
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<400> 359

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<210> 360
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<400> 360

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1 5 10

<210> 361
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<400> 361

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<400> 362

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<210> 363

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR3

<400> 363

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<210> 364

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion HCDR3

<400> 364

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<210> 365

<211> 10

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<223> anti-PD1 antibody molecule or antigen-binding portion HCDR3

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<210> 367

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<210> 368

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<210> 369

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<210> 370

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<210> 371

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<400> 371

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<400> 372

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<210> 373

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<400> 373

Ala Tyr Gly Asn Tyr Trp Tyr Val Asp Val
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<210> 374
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<400> 374

Ala Tyr Gly Asn Tyr Trp Tyr Tyr Asp Val
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<400> 375

Ala Tyr Gly Gln Tyr Trp Tyr Ile Asp Val
1 5 10

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<220>
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<400> 376

Ala Tyr Gly Arg Tyr Trp Tyr Ile Asp Val
1 5 10

<210> 377
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<400> 377

Ala Tyr Gly Ser Tyr Trp Tyr Ile Asp Val
1 5 10

<210> 378
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<400> 378

Ala Tyr Gly Thr Tyr Trp Tyr Ile Asp Val
1 5 10

<210> 379
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<400> 379

Ala Tyr Gly Val Tyr Trp Tyr Ile Asp Arg
1 5 10

<210> 380
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<400> 380

Ala Tyr Gly Val Tyr Trp Tyr Ile Asp Val
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<400> 381

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<210> 382
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Ala	Tyr	Gly	Tyr	Tyr	Trp	Tyr	Ile	Asp	Val
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<210> 383
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<400> 384

Glu Tyr Gly Asn Tyr Trp Tyr Ile Asp Arg
1 5 10

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<220>
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<400> 385

Glu Tyr Gly Asn Tyr Trp Tyr Ile Asp Val
1 5 10

<210> 386
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<400> 386

His Tyr Gly Asn Tyr Trp Tyr Ile Asp Val
1 5 10

<210> 387
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<400> 387

Ile Tyr Gly Asn Tyr Trp Tyr Ile Asp Arg
1 5 10

<210> 388
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<212> PRT
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<400> 388

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<210> 389

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<400> 389

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<210> 390

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<400> 390

Met Tyr Gly Asn Tyr Trp Tyr Ile Asp Val
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<210> 391

<211> 10

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<400> 391

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1 5 10

<210> 392

<211> 10

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<223> anti-PD1 antibody molecule or antigen-binding portion HCDR3

<400> 392

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<210> 393

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Ser	Tyr	Gly	Asn	Tyr	Trp	Tyr	Ile	Asp	Val
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<210> 394

<211> 10

<212> PRT

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<400> 394

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<210> 395

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<213> Artificial Sequence

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<400> 395

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<210> 396

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<223> anti-PD1 antibody molecule or antigen-binding portion HCDR3

<400> 396

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<210> 397

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion LCDR1

<400> 397

Lys Ser Ser Glu Ser Val Gly Asn Asp Leu Ala
1 5 10

<210> 398

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-PD1 antibody molecule or antigen-binding portion LCDR1

<400> 398

Lys Ser Ser Glu Ser Val Gly Asn Asp Val Ala
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<210> 399

<211> 11

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<220>

<223> anti-PD1 antibody molecule or antigen-binding portion LCDR1

<400> 399

Lys Ser Ser Glu Ser Val Ser Asn Asp Leu Ala
1 5 10

<210> 400

<211> 7

<212> PRT
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<210> 401
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<400> 401

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<210> 402
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<400> 402

Tyr Ala Phe His Arg Phe Ala
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<210> 403
<211> 7
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<400> 403

Tyr Ala Phe His Arg Phe Ser
1 5

<210> 404
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<400> 404

Tyr Ala Phe Pro Arg Phe Thr
1 5

<210> 405
<211> 7
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<220>
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<400> 405

Tyr Ala Phe Thr Arg Phe Ser
1 5

<210> 406
<211> 7
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<220>
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<400> 406

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1 5

<210> 407
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<400> 407

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<210> 408
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<212> PRT
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<400> 408

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1 5

<210> 409
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<400> 409

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1 5 10

<210> 410
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<400> 410

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1 5

<210> 411
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<400> 411

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<210> 412
<211> 10
<212> PRT
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<400> 412

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

<210> 413
<211> 18
<212> PRT
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<220>
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<400> 413

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1 5 10 15

Lys Gly

<210> 414
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<213> Artificial Sequence

<220>
<223> anti-PD1 antibody molecule or antigen-binding portion consensus HCDR3

<400> 414

Ala Tyr Gly Asn Tyr Trp Tyr Ile Asp Val
1 5 10

<210> 415
<211> 338
<212> PRT
<213> Homo sapiens

<400> 415

Met Val Arg Arg Val Gln Pro Asp Arg Lys Gln Leu Pro Leu Val Leu
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Leu Arg Leu Leu Cys Leu Leu Pro Thr Gly Leu Pro Val Arg Ser Val
20 25 30

Asp Phe Asn Arg Gly Thr Asp Asn Ile Thr Val Arg Gln Gly Asp Thr
35 40 45

Ala Ile Leu Arg Cys Val Val Glu Asp Lys Asn Ser Lys Val Ala Trp
50 55 60

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

Asp Pro Arg Val Glu Leu Glu Lys Arg His Ser Leu Glu Tyr Ser Leu
85 90 95

Arg Ile Gln Lys Val Asp Val Tyr Asp Glu Gly Ser Tyr Thr Cys Ser
100 105 110

Val Gln Thr Gln His Glu Pro Lys Thr Ser Gln Val Tyr Leu Ile Val
115 120 125

Gln Val Pro Pro Lys Ile Ser Asn Ile Ser Ser Asp Val Thr Val Asn
130 135 140

Glu Gly Ser Asn Val Thr Leu Val Cys Met Ala Asn Gly Arg Pro Glu
145 150 155 160

Pro Val Ile Thr Trp Arg His Leu Thr Pro Thr Gly Arg Glu Phe Glu
165 170 175

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

Gly Lys Tyr Glu Cys Lys Ala Ala Asn Glu Val Ser Ser Ala Asp Val
195 200 205

Lys Gln Val Lys Val Thr Val Asn Tyr Pro Pro Thr Ile Thr Glu Ser
210 215 220

Lys Ser Asn Glu Ala Thr Thr Gly Arg Gln Ala Ser Leu Lys Cys Glu
225 230 235 240

Ala Ser Ala Val Pro Ala Pro Asp Phe Glu Trp Tyr Arg Asp Asp Thr
245 250 255

Arg Ile Asn Ser Ala Asn Gly Leu Glu Ile Lys Ser Thr Glu Gly Gln
260 265 270

Ser Ser Leu Thr Val Thr Asn Val Thr Glu Glu His Tyr Gly Asn Tyr
275 280 285

Thr Cys Val Ala Ala Asn Lys Leu Gly Val Thr Asn Ala Ser Leu Val
290 295 300

Leu Phe Arg Pro Gly Ser Val Arg Gly Ile Asn Gly Ser Ile Ser Leu
305 310 315 320

Ala Val Pro Leu Trp Leu Leu Ala Ala Ser Leu Leu Cys Leu Leu Ser
325 330 335

Lys Cys

<210> 416
<211> 527
<212> PRT
<213> Homo sapiens

<400> 416

Met Glu Ser Ala Ala Ala Leu His Phe Ser Arg Pro Ala Ser Leu Leu
1 5 10 15

Leu Leu Leu Leu Ser Leu Cys Ala Leu Val Ser Ala Gln Phe Ile Val
20 25 30

Val Gly Pro Thr Asp Pro Ile Leu Ala Thr Val Gly Glu Asn Thr Thr
35 40 45

Leu Arg Cys His Leu Ser Pro Glu Lys Asn Ala Glu Asp Met Glu Val
50 55 60

Arg Trp Phe Arg Ser Gln Phe Ser Pro Ala Val Phe Val Tyr Lys Gly
65 70 75 80

Gly Arg Glu Arg Thr Glu Glu Gln Met Glu Glu Tyr Arg Gly Arg Thr
85 90 95

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

His Asn Ile Thr Ala Gln Glu Asn Gly Thr Tyr Arg Cys Tyr Phe Gln
115 120 125

Glu Gly Arg Ser Tyr Asp Glu Ala Ile Leu His Leu Val Val Ala Gly
130 135 140

Leu Gly Ser Lys Pro Leu Ile Ser Met Arg Gly His Glu Asp Gly Gly
145 150 155 160

Ile Arg Leu Glu Cys Ile Ser Arg Gly Trp Tyr Pro Lys Pro Leu Thr
165 170 175

Val Trp Arg Asp Pro Tyr Gly Gly Val Ala Pro Ala Leu Lys Glu Val
180 185 190

Ser Met Pro Asp Ala Asp Gly Leu Phe Met Val Thr Thr Ala Val Ile
195 200 205

Ile Arg Asp Lys Ser Val Arg Asn Met Ser Cys Ser Ile Asn Asn Thr
210 215 220

Leu Leu Gly Gln Lys Lys Glu Ser Val Ile Phe Ile Pro Glu Ser Phe
225 230 235 240

Met Pro Ser Val Ser Pro Cys Ala Val Ala Leu Pro Ile Ile Val Val
245 250 255

Ile Leu Met Ile Pro Ile Ala Val Cys Ile Tyr Trp Ile Asn Lys Leu
260 265 270

Gln Lys Glu Lys Lys Ile Leu Ser Gly Glu Lys Glu Phe Glu Arg Glu
275 280 285

Thr Arg Glu Ile Ala Leu Lys Glu Leu Glu Lys Glu Arg Val Gln Lys
290 295 300

Glu Glu Glu Leu Gln Val Lys Glu Lys Leu Gln Glu Glu Leu Arg Trp
305 310 315 320

Arg Arg Thr Phe Leu His Ala Val Asp Val Val Leu Asp Pro Asp Thr
325 330 335

Ala His Pro Asp Leu Phe Leu Ser Glu Asp Arg Arg Ser Val Arg Arg
340 345 350

Cys Pro Phe Arg His Leu Gly Glu Ser Val Pro Asp Asn Pro Glu Arg
355 360 365

Phe Asp Ser Gln Pro Cys Val Leu Gly Arg Glu Ser Phe Ala Ser Gly
370 375 380

Lys His Tyr Trp Glu Val Glu Val Glu Asn Val Ile Glu Trp Thr Val
385 390 395 400

Gly Val Cys Arg Asp Ser Val Glu Arg Lys Gly Glu Val Leu Leu Ile
405 410 415

Pro Gln Asn Gly Phe Trp Thr Leu Glu Met His Lys Gly Gln Tyr Arg
420 425 430

Ala Val Ser Ser Pro Asp Arg Ile Leu Pro Leu Lys Glu Ser Leu Cys
435 440 445

Arg Val Gly Val Phe Leu Asp Tyr Glu Ala Gly Asp Val Ser Phe Tyr
450 455 460

Asn Met Arg Asp Arg Ser His Ile Tyr Thr Cys Pro Arg Ser Ala Phe
465 470 475 480

Ser Val Pro Val Arg Pro Phe Phe Arg Leu Gly Cys Glu Asp Ser Pro
485 490 495

Ile Phe Ile Cys Pro Ala Leu Thr Gly Ala Asn Gly Val Thr Val Pro
500 505 510

Glu Glu Gly Leu Thr Leu His Arg Val Gly Thr His Gln Ser Leu
515 520 525