

3790_SEQ_LISTING_ST25.txt
SEQUENCE LISTING

<110> ESBATECH, AN ALCON BIOMEDICAL RESEARCH UNIT
 <120> METHODS FOR IDENTIFYING IMMUNOBINDERS OF CELL-SURFACE ANTIGENS
 <130> P105635PC00
 <150> CH00832/09
 <151> 2009-06-02
 <150> US61/155,105
 <151> 2009-02-24
 <150> US61/155,041
 <151> 2009-02-24
 <150> PCT/CH2009/000222
 <151> 2009-06-25
 <160> 10
 <170> PatentIn version 3.5
 <210> 1
 <211> 232
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> variable heavy chain framework of Fw1.4 (a43)
 <220>
 <221> CDR
 <222> (26)..(75)
 <223> CDR; at least 1 and up to 50 amino acids can be present or absent. Xaa can be any naturally occurring amino acid.
 <220>
 <221> CDR
 <222> (90)..(139)
 <223> CDR; at least 1 and up to 50 amino acids can be present or absent. Xaa can be any naturally occurring amino acid.
 <220>
 <221> CDR
 <222> (172)..(221)
 <223> CDR; at least 1 and up to 50 amino acids can be present or absent. Xaa can be any naturally occurring amino acid.
 <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 Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 50 55 60

3790_SEQ_LISTING_ST25.txt

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Val Arg Gln Ala
65 70 75 80

Pro Gly Lys Gly Leu Glu Trp Val Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa
85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
100 105 110

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser
130 135 140

Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
145 150 155 160

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Xaa Xaa Xaa Xaa Xaa
165 170 175

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
180 185 190

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
195 200 205

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Gly Gln
210 215 220

Gly Thr Leu Val Thr Val Ser Ser
225 230

<210> 2
<211> 231
<212> PRT
<213> Artificial Sequence

<220>
<223> variable light chain framework of FW1.4 (KI27)

<220>
<221> CDR
<222> (24)..(73)
<223> CDR; at least 1 and up to 50amino acids can be present or absent.
Xaa can be any naturally occurring amino acid.

<220>
<221> CDR
<222> (89)..(138)
<223> CDR; at least 1 and up to 50amino acids can be present or absent.
Xaa can be any naturally occurring amino acid.

<220>
<221> CDR

3790_SEQ_LISTING_ST25.txt

<222> (171)..(220)

<223> CDR; at least 1 and up to 50 amino acids can be present or absent.
Xaa can be any naturally occurring amino acid.

<400> 2

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

<210> 3

<211> 483

3790_SEQ_LISTING_ST25.txt

<212> PRT
 <213> Artificial Sequence

<220>
 <223> framework of FW1.4

<220>
 <221> CDR
 <222> (24)..(73)
 <223> CDR; at least one and up to 50 amino acids can be present of absent. Xaa can be any naturally occurring amino acid.

<220>
 <221> CDR
 <222> (89)..(138)
 <223> CDR; at least one and up to 50 amino acids can be present of absent. Xaa can be any naturally occurring amino acid.

<220>
 <221> CDR
 <222> (171)..(220)
 <223> CDR; at least one and up to 50 amino acids can be present of absent. Xaa can be any naturally occurring amino acid.

<220>
 <221> CDR
 <222> (277)..(326)
 <223> CDR; at least one and up to 50 amino acids can be present of absent. Xaa can be any naturally occurring amino acid.

<220>
 <221> CDR
 <222> (341)..(390)
 <223> CDR; at least one and up to 50 amino acids can be present of absent. Xaa can be any naturally occurring amino acid.

<220>
 <221> CDR
 <222> (423)..(472)
 <223> CDR; at least one and up to 50 amino acids can be present of absent. Xaa can be any naturally occurring amino acid.

<400> 3

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

Asp Arg Val Ile Ile Thr Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Tyr Gln Gln Lys Pro Gly
 65 70 75 80

Lys Ala Pro Lys Leu Leu Ile Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 85 90 95

3790_SEQ_LISTING_ST25.txt

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 100 105 110

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Val Pro Ser Arg Phe
 130 135 140

Ser Gly Ser Gly Ser Gly Ala Glu Phe Thr Leu Thr Ile Ser Ser Leu
 145 150 155 160

Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Xaa Xaa Xaa Xaa Xaa Xaa
 165 170 175

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 180 185 190

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 195 200 205

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Phe Gly Gln Gly
 210 215 220

Thr Lys Leu Thr Val Leu Gly Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly
 225 230 235 240

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val
 245 250 255

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
 260 265 270

Cys Ala Ala Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 275 280 285

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 290 295 300

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 305 310 315 320

Xaa Xaa Xaa Xaa Xaa Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 325 330 335

Glu Trp Val Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 340 345 350

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 355 360 365

3790_SEQ_LISTING_ST25.txt

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 370 375 380

Xaa Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys
 385 390 395 400

Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala
 405 410 415

Val Tyr Tyr Cys Ala Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 420 425 430

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 435 440 445

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 450 455 460

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Gly Gln Gly Thr Leu Val Thr
 465 470 475 480

Val Ser Ser

<210> 4
 <211> 232
 <212> PRT
 <213> Artificial sequence

<220>
 <223> variable heavy chain framework of rFW1.4

<220>
 <221> CDR
 <222> (26)..(75)
 <223> CDR; at least 1 and up to 50 amino acids can be present or absent. Xaa can be any naturally occurring amino acid.

<220>
 <221> CDR
 <222> (90)..(139)
 <223> CDR; at least 1 and up to 50 amino acids can be present or absent. Xaa can be any naturally occurring amino acid.

<220>
 <221> CDR
 <222> (172)..(221)
 <223> CDR; at least 1 and up to 50 amino acids can be present or absent. Xaa can be any naturally occurring amino acid.

<400> 4

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

Ser Leu Arg Leu Ser Cys Thr Ala Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30

3790_SEQ_LISTING_ST25.txt

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Val Arg Gln Ala
 65 70 75 80

Pro Gly Lys Gly Leu Glu Trp Val Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 100 105 110

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser
 130 135 140

Arg Asp Thr Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg
 145 150 155 160

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Xaa Xaa Xaa Xaa Xaa
 165 170 175

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 180 185 190

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 195 200 205

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Gly Gln
 210 215 220

Gly Thr Leu Val Thr Val Ser Ser
 225 230

<210> 5
 <211> 483
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> framework of rFW1.4

<220>
 <221> CDR
 <222> (24)..(73)
 <223> CDR; at least 1 and up to 50 amino acids can be present or
 absent. xaa can be any naturally occurring amino acid.

3790_SEQ_LISTING_ST25.txt

```

<220>
<221> CDR
<222> (89)..(138)
<223> CDR; at least 1 and up to 50 amino acids can be present or
absent. Xaa can be any naturally occurring amino acid.

<220>
<221> CDR
<222> (171)..(220)
<223> CDR; at least 1 and up to 50 amino acids can be present or
absent. Xaa can be any naturally occurring amino acid.

<220>
<221> CDR
<222> (277)..(326)
<223> CDR; at least 1 and up to 50 amino acids can be present or
absent. Xaa can be any naturally occurring amino acid.

<220>
<221> CDR
<222> (341)..(390)
<223> CDR; at least 1 and up to 50 amino acids can be present or
absent. Xaa can be any naturally occurring amino acid.

<220>
<221> CDR
<222> (423)..(472)
<223> CDR; at least 1 and up to 50 amino acids can be present or
absent. Xaa can be any naturally occurring amino acid.

<400> 5
Glu Ile Val Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Ile Ile Thr Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Tyr Gln Gln Lys Pro Gly
65 70 75 80

Lys Ala Pro Lys Leu Leu Ile Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
100 105 110

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Val Pro Ser Arg Phe
130 135 140

```

3790_SEQ_LISTING_ST25.txt

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

3790_SEQ_LISTING_ST25.txt

Val Tyr Tyr Cys Ala Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 420 425 430

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 435 440 445

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 450 455 460

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Gly Gln Gly Thr Leu Val Thr
 465 470 475 480

Val Ser Ser

<210> 6
 <211> 231
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> variable heavy chain framework of rFW1.4(V2)

<220>
 <221> CDR
 <222> (26)..(75)
 <223> CDR; at least 1 and up to 50 amino acids can be present or
 absent. Xaa can be any naturally occurring amino acid.

<220>
 <221> CDR
 <222> (90)..(138)
 <223> CDR; at least 1 and up to 50 amino acids can be present or
 absent. Xaa can be any naturally occurring amino acid.

<220>
 <221> CDR
 <222> (171)..(220)
 <223> CDR; at least 1 and up to 50 amino acids can be present or
 absent. Xaa can be any naturally occurring amino acid.

<400> 6

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 Thr Val Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Val Arg Gln Ala
 65 70 75 80

3790_SEQ_LISTING_ST25.txt

Pro Gly Lys Gly Leu₈₅ Glu Trp Val Gly₉₀ Xaa Xaa Xaa Xaa Xaa₉₅ Xaa Xaa

Xaa Xaa Xaa₁₀₀ Xaa Xaa Xaa Xaa Xaa₁₀₅ Xaa Xaa Xaa Xaa Xaa₁₁₀ Xaa Xaa Xaa

Xaa Xaa Xaa₁₁₅ Xaa Xaa Xaa Xaa Xaa₁₂₀ Xaa Xaa Xaa Xaa Xaa₁₂₅ Xaa Xaa Xaa Xaa

Xaa Xaa Xaa₁₃₀ Xaa Xaa Xaa Xaa Xaa₁₃₅ Xaa Xaa Xaa Arg Phe Thr Ile Ser Lys₁₄₀

Asp Thr Ser Lys Asn Thr₁₅₀ Val Tyr Leu Gln Met₁₅₅ Asn Ser Leu Arg Ala₁₆₀

Glu Asp Thr Ala Val₁₆₅ Tyr Tyr Cys Ala Arg₁₇₀ Xaa Xaa Xaa Xaa Xaa₁₇₅ Xaa Xaa

Xaa Xaa Xaa₁₈₀ Xaa Xaa Xaa Xaa Xaa₁₈₅ Xaa Xaa Xaa Xaa Xaa₁₉₀ Xaa Xaa Xaa

Xaa Xaa Xaa₁₉₅ Xaa Xaa Xaa Xaa Xaa₂₀₀ Xaa Xaa Xaa Xaa Xaa₂₀₅ Xaa Xaa Xaa

Xaa Xaa Xaa₂₁₀ Xaa Xaa Xaa Xaa Xaa₂₁₅ Xaa Xaa Xaa Xaa Xaa₂₂₀ Trp Gly Gln Gly

Thr Leu Val Thr Val Ser Ser₂₃₀

<210> 7
 <211> 483
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> framework of rFW1.4(V2)

<220>
 <221> CDR
 <222> (24)..(73)
 <223> CDR; at least 1 and up to 50 amino acids can be present or absent. Xaa can be any naturally occurring amino acid.

<220>
 <221> CDR
 <222> (89)..(138)
 <223> CDR; at least 1 and up to 50 amino acids can be present or absent. Xaa can be any naturally occurring amino acid.

<220>
 <221> CDR
 <222> (171)..(220)
 <223> CDR; at least 1 and up to 50 amino acids can be present or absent. Xaa can be any naturally occurring amino acid.

3790_SEQ_LISTING_ST25.txt

<220>
 <221> CDR
 <222> (277)..(326)
 <223> CDR; at least 1 and up to 50 amino acids can be present or absent. Xaa can be any naturally occurring amino acid.

<220>
 <221> CDR
 <222> (341)..(390)
 <223> CDR; at least 1 and up to 50 amino acids can be present or absent. Xaa can be any naturally occurring amino acid.

<220>
 <221> CDR
 <222> (423)..(472)
 <223> CDR; at least 1 and up to 50 amino acids can be present or absent. Xaa can be any naturally occurring amino acid.

<400> 7

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

Asp Arg Val Ile Ile Thr Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Tyr Gln Gln Lys Pro Gly
 65 70 75 80

Lys Ala Pro Lys Leu Leu Ile Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 100 105 110

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Val Pro Ser Arg Phe
 130 135 140

Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu
 145 150 155 160

Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Xaa Xaa Xaa Xaa Xaa Xaa
 165 170 175

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 180 185 190

3790_SEQ_LISTING_ST25.txt

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 195 200 205

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Phe Gly Gln Gly
 210 215 220

Thr Lys Leu Thr Val Leu Gly Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly
 225 230 235 240

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val
 245 250 255

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
 260 265 270

Cys Thr Val Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 275 280 285

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 290 295 300

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 305 310 315 320

Xaa Xaa Xaa Xaa Xaa Xaa Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 325 330 335

Glu Trp Val Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 340 345 350

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 355 360 365

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 370 375 380

Xaa Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Lys Asp Thr Ser Lys
 385 390 395 400

Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala
 405 410 415

Val Tyr Tyr Cys Ala Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 420 425 430

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 435 440 445

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 450 455 460

3790_SEQ_LISTING_ST25.txt

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Gly Gln Gly Thr Leu Val Thr
 465 470 475 480

Val Ser Ser

<210> 8
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> linker

<400> 8

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

Gly Gly Gly Ser
 20

<210> 9
 <211> 231
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> substituted variable light chain framework of FW1.4

<220>
 <221> CDR
 <222> (24)..(73)
 <223> CDR; at least 1 and up to 50 amino acids can be present or absent. Xaa can be any naturally occurring amino acid.

<220>
 <221> CDR
 <222> (89)..(138)
 <223> CDR; at least 1 and up to 50 amino acids can be present or absent. Xaa can be any naturally occurring amino acid.

<220>
 <221> CDR
 <222> (171)..(220)
 <223> CDR; at least 1 and up to 50 amino acids can be present or absent. Xaa can be any naturally occurring amino acid.

<400> 9

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

Asp Arg Val Ile Ile Thr Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45

3790_SEQ_LISTING_ST25.txt

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Tyr Gln Gln Lys Pro Gly
 65 70 75 80

Lys Ala Pro Lys Leu Leu Ile Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 100 105 110

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Val Pro Ser Arg Phe
 130 135 140

Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu
 145 150 155 160

Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Xaa Xaa Xaa Xaa Xaa Xaa
 165 170 175

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 180 185 190

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 195 200 205

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Phe Gly Gln Gly
 210 215 220

Thr Lys Leu Thr Val Leu Gly
 225 230

<210> 10
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> linker

<400> 10

Gly Gly Gly Gly Ser
 1 5