SEQUENCE LISTING

<110> AB2 Bio SA

<120> IL-18 Binding Protein (IL-18BP) In Inflammatory Diseases

<130> W1568 PCT BS

<150> EP13 18 3193.5
<151> 2013-09-05

<160> 80

<170> BiSSAP 1.2

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Thr Thr Ile Ser Val Lys
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Glu Met Asn Pro Pro Asp Asn Ile Lys Asp Thr Lys Ser Asp Ile Ile
1 5 10 15
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<210> 4
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<400> 4
Tyr Phe Gly Lys Leu Glu Ser
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<400> 5
Tyr Lys Asp Ser Gln Pro Arg Gly Met Ala
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<400> 6
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<400> 7
Thr Pro Val Ser Gln Thr Thr Thr Ala Ala Thr Ala Ser Val Arg Ser
1 5 10 15
Thr Lys Asp Pro Cys Pro Ser Gln Pro Pro Val Phe Pro Ala Ala Lys
20 25 30
Gln Cys Pro Ala Leu Glu Val Thr Trp Pro Glu Val Glu Val Pro Leu
35 40 45
Asn Gly Thr Leu Ser Leu Ser Cys Val Ala Cys Ser Arg Phe Pro Asn
50 55 60
Phe Ser Ile Leu Tyr Trp Leu Gly Asn Gly Ser Phe Ile Glu His Leu
65 70 75 80
Pro Gly Arg Leu Trp Glu Gly Ser Thr Ser Arg Glu Arg Gly Ser Thr
85 90 95
Gly Thr Gln Leu Cys Lys Ala Leu Val Leu Glu Gln Leu Thr Pro Ala
100 105 110
Leu His Ser Thr Asn Phe Ser Cys Val Leu Val Asp Pro Glu Gln Val
115 120 125
Val Gln Arg His Val Val Leu Ala Gln Leu Trp Ala Gly Leu Arg Ala
130 135 140
Thr Leu Pro Pro Thr Gln Glu Ala Leu Pro Ser Ser His Ser Ser Pro
145 150 155 160
Gln Gln Gln Gly

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<400> 8
Glu Phe Gly Ala Gly Leu Val Leu Gly Gly Gln Phe Met
1 5 10

<210> 9

<211> 120
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<223> Antibody 107C6 VH sequence

<400> 9
Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu
1 5 10 15
Thr Val Lys Leu Ser Cys Arg Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30
Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met
35 40 45
Gly Trp Ile Asn Thr Tyr Ser Gly Val Pro Thr Tyr Ala Asp Asp Phe
50 55 60
Lys Gly Gln Phe Ala Phe Ser Leu Glu Thr Ser Ala Ala Thr Ala Phe
65 70 75 80
Leu Gln Ile Asn Asn Leu Lys Asp Glu Asp Thr Ala Thr Tyr Phe Cys
85 90 95
Ala Arg Glu Gly Tyr Ser Thr Thr Arg Ser Met Asp Tyr Trp Gly Gln
100 105 110
Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 10
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<220>
<223> Antibody 107C6 VK sequence

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

<210> 11
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<220>
<223> Antibody 108F8 VH sequence

<400> 11
Gln Ile Gln Leu Val Gln Ser Gly Pro Asp Ser Lys Lys Pro Gly Glu
1 5 10 15
Thr Val Lys Leu Ser Cys Arg Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30
Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met
35 40 45
Gly Trp Ile Asn Thr Tyr Ser Gly Val Pro Thr Tyr Ala Asp Asp Phe
50 55 60

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

<210> 12
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<220>
<223> Antibody 108F8 VK sequence

<400> 12
Asp Ile Val Met Ser Gln Ser Pro Ser Ser Leu Ala Val Ser Ala Gly
1 5 10 15
Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
20 25 30
Arg Thr Arg Lys Asn Tyr Leu Val Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45
Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Gly Ser Gly Val
50 55 60
Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80
Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Lys Gln
85 90 95
Ser Tyr Asn Leu Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 13
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<220>
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<400> 13
Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Lys Ile Lys Asp Thr
20 25 30
Tyr Ile His Trp Val Ile Gln Arg Pro Ala Gln Gly Leu Glu Trp Ile
35 40 45
Gly Arg Ile Asp Pro Ala Asn Gly Asn Thr Ile Tyr Gly Ser Lys Phe
50 55 60
Gln Gly Lys Ala Thr Leu Thr Ala Asp Thr Ser Ser Asn Thr Ala Tyr
65 70 75 80
Ile His Leu Ser Ser Leu Thr Ser Gly Asp Ser Ala Val Tyr Tyr Cys
85 90 95
Ala Gly Tyr Val Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110
Val Ser Ala
115

<210> 14
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<213> Artificial Sequence

<220>
<223> Antibody 109A6 VK sequence

<400> 14
Asp Val Val Met Thr Gln Val Pro Leu Ser Leu Pro Val Ser Leu Gly
1 5 10 15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Arg Leu Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu His Trp Phe Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Lys Leu Leu Ile Tyr Thr Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser
85 90 95
Thr Leu Val Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 15
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody 111A6 VH sequence

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

<210> 16
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody 111A6 VK sequence 1

<400> 16
Glu Asn Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1 5 10 15
Glu Lys Val Thr Met Thr Cys Arg Ala Arg Ser Ser Val Ser Ser Ser
20 25 30
Tyr Leu His Trp Tyr Gln Gln Lys Ser Gly Ala Ser Pro Lys Leu Trp
35 40 45
Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Thr Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Val Glu
65 70 75 80
Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Gly Tyr Pro
85 90 95
Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
100 105

<210> 17
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<212> PRT
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<220>
<223> Antibody 111A6 VK sequence 2

<400> 17
Asp Val Val Met Thr Gln Val Pro Leu Ser Leu Pro Val Ser Leu Gly
1 5 10 15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Arg Leu Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu His Trp Phe Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Lys Leu Leu Ile Tyr Thr Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser
85 90 95
Thr Leu Val Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 18
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody 131B4 VH sequence

<400> 18
Glu Val Gln Val Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Lys Ile Lys Asp Thr
20 25 30
Tyr Ile His Trp Leu Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile
35 40 45
Gly Arg Ile Asp Pro Ala Asn Gly Asn Thr Ile Tyr Gly Ser Lys Phe
50 55 60
Gln Gly Lys Ala Thr Ile Thr Ala Asp Thr Ser Ser Asn Thr Ala Tyr
65 70 75 80
Ile Gln Leu Ser Ser Leu Thr Ser Gly Asp Thr Ala Val Tyr Phe Cys
85 90 95
Ala Gly Tyr Val Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110
Val Ser Ala
115

<210> 19
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody 131B4 VK sequence

<400> 19
Asp Ala Val Leu Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
1 5 10 15
Asp Gln Ala Ser Ile Ser Cys Thr Ser Ser Gln Ser Leu Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

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

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

<220>
<223> Antibody 131E8 VH sequence 1

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

<210> 21
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody 131E8 VH sequence 2

<400> 21
Gln Val Gln Leu Gln Gln Pro Gly Ser Val Leu Val Arg Pro Gly Ala
1 5 10 15
Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30
Trp Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45
Gly Asn Ile Asn Pro Asn Ser Gly Ser Thr Asn Tyr Asn Glu Lys Phe
50 55 60
Lys Gly Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Ser Thr Ala Tyr
65 70 75 80
Met Asp Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Leu Gly Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val Ser
100 105 110
Ser

<210> 22
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody 131E8 VK sequence

<400> 22
Glu Asn Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1 5 10 15
Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
20 25 30
His Trp Tyr Gln Gln Lys Ser Ser Thr Ser Pro Lys Leu Trp Ile Tyr
35 40 45
Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Gly Arg Phe Ser Gly Ser
50 55 60
Gly Ser Gly Asn Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Ala Glu
65 70 75 80
Asp Val Ala Thr Tyr Tyr Cys Phe Gln Gly Ser Gly Tyr Pro Leu Thr
85 90 95
Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 23
<211> 120
<212> PRT
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<220>
<223> Antibody 132H4 VH sequence

<400> 23
Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15
Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
20 25 30
Ala Met Ser Trp Val Arg Gln Asn Pro Ala Lys Arg Leu Glu Trp Val
35 40 45
Ala Thr Ile Ser Ser Gly Gly Ala Asn Ile Tyr Tyr Pro Asp Ser Val
50 55 60
Lys Gly Arg Phe Ile Ile Ser Arg Asp Asn Ala Arg Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys
85 90 95
Ala Arg Gly Asp Tyr Phe Asn His Phe Trp Phe Ala Tyr Trp Gly Gln
100 105 110
Gly Thr Leu Val Thr Val Ser Ala
115 120

<210> 24
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody 132H4 VK sequence

<400> 24
Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
1 5 10 15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Lys Phe Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Asn Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Tyr Cys Phe Gln Gly
85 90 95
Ser His Val Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 25
<211> 120
<212> PRT
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<220>
<223> Antibody 133A6 VH sequence

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

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<223> Antibody 133A6 VK sequence

<400> 26
Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
1 5 10 15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Phe Gln Gly
85 90 95
Ser His Val Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 27
<211> 8
<212> PRT
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<220>
<223> Antibody 107C6 VH sequence CDR1

<400> 27
Gly Tyr Thr Phe Thr Asn Tyr Gly
1 5

<210> 28

<211> 8
<212> PRT
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<220>
<223> Antibody 107C6 VH sequence CDR2

<400> 28
Ile Asn Thr Tyr Ser Gly Val Pro
1 5

<210> 29
<211> 13
<212> PRT
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<220>
<223> Antibody 107C6 VH sequence CDR3

<400> 29
Ala Arg Glu Gly Tyr Ser Thr Thr Arg Ser Met Asp Tyr
1 5 10

<210> 30
<211> 12
<212> PRT
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<220>
<223> Antibody 107C6 VK sequence CDR1

<400> 30
Gln Ser Leu Leu Asp Ser Arg Thr Arg Lys Asn Tyr
1 5 10

<210> 31
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<400> 31
Trp Ala Ser
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<210> 32
<211> 8
<212> PRT
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<220>
<223> Antibody 107C6 VK sequence CDR3

<400> 32
Lys Gln Ser Tyr Asn Leu Arg Thr
1 5

<210> 33
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<223> Antibody 108F8 VH sequence CDR1

<400> 33

Gly Tyr Thr Phe Thr Asn Tyr Gly
1 5

<210> 34
<211> 8
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<400> 34
Ile Asn Thr Tyr Ser Gly Val Pro
1 5

<210> 35
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<400> 35
Ala Arg Glu Gly Tyr Ser Thr Thr Arg Ser Met Asp Tyr
1 5 10

<210> 36
<211> 12
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<400> 36
Gln Ser Leu Leu Asp Ser Arg Thr Arg Lys Asn Tyr
1 5 10

<210> 37
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<400> 37
Trp Ala Ser
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<210> 38
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<400> 38
Lys Gln Ser Tyr Asn Leu Arg Thr
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<210> 39
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<400> 39
Gly Phe Lys Ile Lys Asp Thr Tyr
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<400> 40
Ile Asp Pro Ala Asn Gly Asn Thr
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<210> 41
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<400> 41
Ala Gly Tyr Val Trp Phe Ala Tyr
1 5

<210> 42
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<400> 42
Gln Arg Leu Val His Ser Asn Gly Asn Thr Tyr
1 5 10

<210> 43
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<400> 43
Thr Val Ser
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<210> 44
<211> 9
<212> PRT
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<220>
<223> Antibody 109A6 VK sequence CDR3

<400> 44
Ser Gln Ser Thr Leu Val Pro Trp Thr
1 5

<210> 45

<211> 8
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<220>
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<400> 45
Gly Phe Lys Ile Lys Asp Thr Tyr
1 5

<210> 46
<211> 8
<212> PRT
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<220>
<223> Antibody 111A6 VH sequence CDR2

<400> 46
Ile Asp Pro Ala Asn Gly Asn Thr
1 5

<210> 47
<211> 8
<212> PRT
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<220>
<223> Antibody 111A6 VH sequence CDR3

<400> 47
Ala Gly Tyr Val Trp Phe Ala Tyr
1 5

<210> 48
<211> 7
<212> PRT
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<220>
<223> Antibody 111A6 VK sequence 1 CDR1

<400> 48
Ser Ser Val Ser Ser Ser Tyr
1 5

<210> 49
<211> 3
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<400> 49
Ser Thr Ser
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<210> 50
<211> 9
<212> PRT
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<400> 50

Gln Gln Tyr Ser Gly Tyr Pro Leu Thr
1 5

<210> 51
<211> 11
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<220>
<223> Antibody 111A6 VK sequence 2 CDR1

<400> 51
Gln Arg Leu Val His Ser Asn Gly Asn Thr Tyr
1 5 10

<210> 52
<211> 3
<212> PRT
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<220>
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<400> 52
Thr Val Ser
1

<210> 53
<211> 9
<212> PRT
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<220>
<223> Antibody 111A6 VK sequence 2 CDR2

<400> 53
Ser Gln Ser Thr Leu Val Pro Trp Thr
1 5

<210> 54
<211> 8
<212> PRT
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<220>
<223> Antibody 131B4 VH sequence CDR1

<400> 54
Gly Phe Lys Ile Lys Asp Thr Tyr
1 5

<210> 55
<211> 8
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<223> Antibody 131B4 VH sequence CDR2

<400> 55
Ile Asp Pro Ala Asn Gly Asn Thr
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<210> 56
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<400> 56
Ala Gly Tyr Val Trp Phe Ala Tyr
1 5

<210> 57
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<400> 57
Gln Ser Leu Val His Ser Asn Gly Asn Thr Tyr
1 5 10

<210> 58
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<400> 58
Lys Val Ser
1

<210> 59
<211> 9
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<220>
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<400> 59
Ser Gln Ser Ser Leu Val Pro Trp Thr
1 5

<210> 60
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<220>
<223> Antibody 131E8 VH sequence 1 CDR1

<400> 60
Gly Phe Ser Leu Pro Asn Tyr Gly
1 5

<210> 61
<211> 7
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<220>
<223> Antibody 131E8 VH sequence 1 CDR2

<400> 61
Ile Trp Ser Gly Gly Ser Thr
1 5

<210> 62

<211> 14
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<400> 62
Ala Arg Asn Phe Tyr Ser Lys Tyr Asp Tyr Ala Met Asp Tyr
1 5 10

<210> 63
<211> 8
<212> PRT
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<400> 63
Gly Tyr Thr Phe Thr Ser Tyr Trp
1 5

<210> 64
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<400> 64
Ile Asn Pro Asn Ser Gly Ser Thr
1 5

<210> 65
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<220>
<223> Antibody 131E8 VH sequence 2 CDR3

<400> 65
Ala Arg Leu Gly Asp Tyr
1 5

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