

SEQUENCE LISTING

<110> ULTRAHUMAN FIVE LIMITED
 <120> C-KIT BINDING AGENTS
 <130> UHFL-001/01WO 332948-2003
 <150> GB 1806468.3
 <151> 2018-04-20
 <150> GB 1802201.2
 <151> 2018-02-09
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Phe Gln Gly

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Gly Val Xaa Xaa Xaa Xaa Xaa
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Gly Tyr Thr Phe Thr Asp Tyr Tyr Ile Asn
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Ile Ala Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys
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Phe Lys Gly

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Lys Ala Ser Gln Asn Val Arg Thr Asn Val Ala
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Gly Tyr Thr Phe Thr Asp Tyr Tyr Met Asn
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Phe Gln Gly

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Arg Ala Ser Gln Gly Val Arg Thr Asn Leu Ala
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Ala Ala Ser Ser Leu Gln Ser
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Gln Gln Tyr Ala Asn Tyr Pro Arg Thr
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Met Gly Arg Ile Tyr Pro Ala Ser Gly Asn Thr Tyr Tyr Ala Gln Lys
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Phe Gln Gly

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Gly Val Trp Tyr Tyr Asp Tyr
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Phe Gln Gly

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Gly Val Xaa Xaa Xaa Xaa Xaa
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Phe Gln Gly

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Gly Val Xaa Xaa Xaa Asp Xaa
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Gln Gln Tyr Xaa Xaa Tyr Pro Arg Thr
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Arg Ala Ser Gln Gly Val Arg Thr Asn Val Ala
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Gly Val Tyr Tyr Gln Asp Tyr
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1 5 10

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Ile Gly Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys
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Phe Gln Gly

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Ala Ala Ser Tyr Leu Gln Ser
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<400> 56

Gln Gln Tyr Asn Ser Tyr Pro Lys Thr
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Gln Gln Tyr Asn Ser Tyr Pro His Thr
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Gln Gln Tyr Ser Ser Tyr Pro Arg Thr
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Gln Gln Tyr Glu Ser Tyr Pro Arg Thr
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Met Gly Arg Ile Tyr Pro Gly Thr Gly Asn Thr Tyr Tyr Ala Gln Lys
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Phe Gln Gly

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Gly Val Trp Tyr Phe Asp Ser
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<213> Artificial Sequence

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Gly Val Trp Tyr Phe Asp Thr
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<210> 64

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<223> TCED+ and HAF peptide

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Val Thr Ile Thr Cys Lys Ala Ser Gln
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<223> light chain GE

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Val Thr Ile Thr Cys Arg Ala Ser Gln
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<223> HAF peptide

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Leu Ile Tyr Ser Ala Ser Ser Leu Gln
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Ile Tyr Ser Ala Ser Ser Leu Gln Ser
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<223> TCED+ and HAF peptide

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Tyr Tyr Ile Asn Trp Val Arg Gln Ala
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Asp Tyr Tyr Ile Asn
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Gly Tyr Thr Phe Thr Asp Tyr
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Gly Tyr Thr Phe Thr Asp Tyr Tyr
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Thr Asp Tyr Tyr Ile Asn
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<223> anti-C-KIT HCDR2

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Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe Lys
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Gly

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Tyr Pro Gly Ser Gly Asn

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Gln Asn Val Arg Thr Asn
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<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT LCDR1

<400> 83

Ala Ser Gln Asn Val Arg Thr Asn
1 5

<210> 84

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT LCDR1

<400> 84

Val Arg Thr Asn Val Ala Trp Tyr
1 5

<210> 85

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT LCDR2

<400> 85

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

<210> 86

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT LCDR3

<400> 86

Tyr Asn Ser Tyr Pro Arg
1 5

<210> 87

<211> 116

<212> PRT

<213> Mus musculus

<400> 87

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

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

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

Ala Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe
50 55 60

Lys Gly Lys Ala Thr Leu Thr Ala Glu Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

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

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

Thr Val Ser Ser
115

<210> 88

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> h37M-VH

<400> 88

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

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

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

Ala Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe
50 55 60

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

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

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

Thr Val Ser Ser
115

<210> 89

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> VH graft

<400> 89

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

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

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

Ala Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe
50 55 60

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

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

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

Thr Val Ser Ser
115

<210> 90
<211> 108
<212> PRT
<213> Mus musculus

<400> 90

Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly
1 5 10 15

Asp Arg Val Ser Val Thr Cys Lys Ala Ser Gln Asn Val Arg Thr Asn
20 25 30

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asn Val Gln Ser
65 70 75 80

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

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

<210> 91
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> h37M-VL

<400> 91

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

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

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

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

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

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 92
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> VL graft

<400> 92

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

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

<210> 93
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> anti-C-KIT LCDR1

<400> 93

Arg	Ala	Ser	Gln	Gly	Ile	Arg	Asn	Asn	Leu	Ala
1				5					10	

<210> 94
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> anti-C-KIT LCDR1

<400> 94

Arg	Ala	Ser	Gln	Gly	Ile	Arg	Asn	Asn	Val	Ala
1				5					10	

<210> 95
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT LCDR1

<400> 95

Arg Ala Ser Gln Gly Ile Arg Asn Tyr Val Ala
1 5 10

<210> 96
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT LCDR1

<400> 96

Arg Ala Ser Gln Gly Ile Ser Asn Tyr Leu Ala
1 5 10

<210> 97
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT LCDR1

<400> 97

Arg Ala Ser Gln Gly Ile Ser Asn Tyr Val Ala
1 5 10

<210> 98
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT LCDR1

<400> 98

Arg Ala Ser Gln Gly Ile Ser Thr Asn Leu Ala

1 5 10

<210> 99
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT LCDR1

<400> 99

Arg Ala Ser Gln Gly Ile Ser Thr Asn Val Ala
1 5 10

<210> 100
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT LCDR1

<400> 100

Arg Ala Ser Gln Gly Ile Ser Thr Tyr Leu Ala
1 5 10

<210> 101
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT LCDR1

<400> 101

Arg Ala Ser Gln Gly Ile Ser Thr Tyr Val Ala
1 5 10

<210> 102
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT LCDR1

<400> 102

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

<210> 103
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT LCDR1

<400> 103

Arg Ala Ser Gln Gly Val Ser Asn Asn Leu Ala
1 5 10

<210> 104
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT LCDR1

<400> 104

Arg Ala Ser Gln Gly Val Ser Asn Asn Val Ala
1 5 10

<210> 105
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT LCDR1

<400> 105

Arg Ala Ser Gln Gly Val Ser Asn Tyr Leu Ala
1 5 10

<210> 106
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT LCDR1

<400> 106

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

<210> 107

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT LCDR1

<400> 107

Arg Ala Ser Gln Gly Val Ser Thr Asn Leu Ala
1 5 10

<210> 108

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT LCDR1

<400> 108

Arg Ala Ser Gln Gly Val Ser Thr Asn Val Ala
1 5 10

<210> 109

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT LCDR1

<400> 109

Arg Ala Ser Gln Gly Val Ser Thr Tyr Leu Ala
1 5 10

<210> 110

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT LCDR1

<400> 110

Arg Ala Ser Gln Gly Val Ser Thr Tyr Val Ala
1 5 10

<210> 111

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT LCDR2

<400> 111

Ala Ala Ser Ser Leu Tyr Ser
1 5

<210> 112

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT LCDR2

<400> 112

Ala Ala Ser Ser Arg Tyr Ser
1 5

<210> 113

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT LCDR2

<400> 113

Ala Ala Ser Tyr Leu Tyr Ser
1 5

<210> 114

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT LCDR2

<400> 114

Ala Ala Ser Tyr Arg Tyr Ser
1 5

<210> 115

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT LCDR2

<400> 115

Ser Ala Ser Ser Leu Tyr Ser
1 5

<210> 116

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT LCDR2

<400> 116

Ser Ala Ser Ser Arg Tyr Ser
1 5

<210> 117

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT LCDR2

<400> 117

Ser Ala Ser Tyr Leu Gln Ser
1 5

<210> 118

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

<220>
<223> anti-C-KIT LCDR2

<400> 118

Ser Ala Ser Tyr Leu Tyr Ser
1 5

<210> 119
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT LCDR3

<400> 119

Gln Gln Tyr Ala Ser Tyr Pro Leu Thr
1 5

<210> 120
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT LCDR3

<400> 120

Gln Gln Tyr Asn Ser Tyr Pro Leu Thr
1 5

<210> 121
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT LCDR3

<400> 121

Gln Gln Tyr Gln Ser Tyr Pro Leu Thr
1 5

<210> 122
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT LCDR3

<400> 122

Gln Gln Tyr Gln Ser Tyr Pro Arg Thr
1 5

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

<220>
<223> anti-C-KIT HCDR1

<400> 123

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

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

<220>
<223> anti-C-KIT HCDR1

<400> 124

Gly Tyr Thr Phe Thr Ser Tyr Tyr Ile Asn
1 5 10

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

<220>
<223> anti-C-KIT HCDR1

<400> 125

Gly Tyr Thr Phe Thr Ser Tyr Tyr Met Asn

1 5 10

<210> 126
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 126

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

Phe Gln Gly

<210> 127
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 127

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

Phe Gln Gly

<210> 128
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 128

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

Phe Gln Gly

<210> 129
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 129

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

Phe Gln Gly

<210> 130
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 130

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

Phe Gln Gly

<210> 131
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 131

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

Phe Gln Gly

<210> 132
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 132

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

Phe Gln Gly

<210> 133
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 133

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

Phe Gln Gly

<210> 134
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 134

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

Phe Gln Gly

<210> 135
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 135

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

Phe Gln Gly

<210> 136
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 136

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

Phe Gln Gly

<210> 137
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 137

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

Phe Gln Gly

<210> 138
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 138

Met	Ala	Ile	Ile	Tyr	Pro	Gly	Ser	Gly	Asn	Thr	Tyr	Tyr	Ala	Gln	Lys
1				5					10					15	

Phe Gln Gly

<210> 139
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 139

Met	Ala	Arg	Ile	Asn	Pro	Gly	Ser	Gly	Asn	Thr	Ser	Tyr	Ala	Gln	Lys
1				5					10					15	

Phe Gln Gly

<210> 140
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 140

Met	Ala	Arg	Ile	Asn	Pro	Gly	Ser	Gly	Asn	Thr	Tyr	Tyr	Ala	Gln	Lys
1				5					10					15	

Phe Gln Gly

<210> 141
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 141

Met	Ala	Arg	Ile	Tyr	Pro	Gly	Ser	Gly	Asn	Thr	Ser	Tyr	Ala	Gln	Lys
1			5					10					15		

Phe Gln Gly

<210> 142
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 142

Met	Ala	Arg	Ile	Tyr	Pro	Gly	Ser	Gly	Asn	Thr	Tyr	Tyr	Ala	Gln	Lys
1			5					10					15		

Phe Gln Gly

<210> 143
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 143

Met	Ala	Arg	Ile	Tyr	Pro	Ser	Ser	Gly	Asn	Thr	Ser	Tyr	Ala	Gln	Lys
1			5					10					15		

Phe Gln Gly

<210> 144
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 144

Met	Ala	Arg	Ile	Tyr	Pro	Ser	Ser	Gly	Asn	Thr	Tyr	Tyr	Ala	Gln	Lys
1			5					10					15		

Phe Gln Gly

<210> 145
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 145

Met	Gly	Ile	Ile	Tyr	Pro	Gly	Ser	Gly	Asn	Thr	Tyr	Tyr	Ala	Gln	Lys
1			5					10					15		

Phe Gln Gly

<210> 146
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 146

Met	Gly	Arg	Ile	Asn	Pro	Gly	Ser	Gly	Asn	Thr	Ser	Tyr	Ala	Gln	Lys
1			5					10					15		

Phe Gln Gly

<210> 147
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 147

Met	Gly	Arg	Ile	Asn	Pro	Gly	Ser	Gly	Asn	Thr	Tyr	Tyr	Ala	Gln	Lys
1				5					10					15	

Phe Gln Gly

<210> 148
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 148

Met	Gly	Arg	Ile	Tyr	Pro	Gly	Ser	Gly	Asn	Thr	Ser	Tyr	Ala	Gln	Lys
1				5					10					15	

Phe Gln Gly

<210> 149
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 149

Met	Gly	Arg	Ile	Tyr	Pro	Ser	Ser	Gly	Asn	Thr	Ser	Tyr	Ala	Gln	Lys
1				5					10					15	

Phe Gln Gly

<210> 150
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR2

<400> 150

Met	Gly	Arg	Ile	Tyr	Pro	Ser	Ser	Gly	Asn	Thr	Tyr	Tyr	Ala	Gln	Lys
1				5				10						15	

Phe Gln Gly

<210> 151
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 151

Gly	Val	Tyr	Tyr	Phe	Asp	Ala
1				5		

<210> 152
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 152

Gly	Val	Tyr	Tyr	Phe	Asp	Asp
1				5		

<210> 153
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

<223> anti-C-KIT HCDR3

<400> 153

Gly Val Tyr Tyr Phe Asp Phe
1 5

<210> 154

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT HCDR3

<400> 154

Gly Val Tyr Tyr Phe Asp Gly
1 5

<210> 155

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT HCDR3

<400> 155

Gly Val Tyr Tyr Phe Asp His
1 5

<210> 156

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT HCDR3

<400> 156

Gly Val Tyr Tyr Phe Asp Ile
1 5

<210> 157

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT HCDR3

<400> 157

Gly Val Tyr Tyr Phe Asp Lys
1 5

<210> 158

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT HCDR3

<400> 158

Gly Val Tyr Tyr Phe Asp Met
1 5

<210> 159

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT HCDR3

<400> 159

Gly Val Tyr Tyr Phe Asp Asn
1 5

<210> 160

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT HCDR3

<400> 160

Gly Val Tyr Tyr Phe Asp Pro
1 5

<210> 161

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

<220>
<223> anti-C-KIT HCDR3

<400> 161

Gly Val Tyr Tyr Phe Asp Gln
1 5

<210> 162
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 162

Gly Val Tyr Tyr Phe Asp Arg
1 5

<210> 163
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 163

Gly Val Tyr Tyr Phe Asp Val
1 5

<210> 164
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 164

Gly Val Tyr Tyr Phe Asp Trp
1 5

<210> 165
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 165

Gly Val Tyr Tyr Ala Asp Tyr
1 5

<210> 166
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 166

Gly Val Tyr Tyr Gly Asp Tyr
1 5

<210> 167
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 167

Gly Val Tyr Tyr His Asp Tyr
1 5

<210> 168
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 168

Gly Val Tyr Tyr Lys Asp Tyr

1

5

<210> 169
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 169

Gly Val Tyr Tyr Asn Asp Tyr
1 5

<210> 170
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 170

Gly Val Tyr Tyr Met Asp Tyr
1 5

<210> 171
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 171

Gly Val Tyr Tyr Trp Asp Tyr
1 5

<210> 172
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 172

Gly Val Tyr Ala Phe Asp Tyr
1 5

<210> 173
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 173

Gly Val Tyr Gln Phe Asp Tyr
1 5

<210> 174
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 174

Gly Val Tyr Trp Phe Asp Tyr
1 5

<210> 175
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 175

Gly Val Tyr Asn Phe Asp Tyr
1 5

<210> 176
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 176

Gly Val Tyr Thr Phe Asp Tyr
1 5

<210> 177

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT HCDR3

<400> 177

Gly Val Tyr Asp Phe Asp Tyr
1 5

<210> 178

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT LCDR3

<400> 178

Gln Gln Tyr Asn Ala Tyr Pro Lys Thr
1 5

<210> 179

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT LCDR3

<400> 179

Gln Gln Tyr Asn Ala Tyr Pro His Thr
1 5

<210> 180

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT HCDR1

<400> 180

Gly	Tyr	Thr	Phe	Thr	Asp	Phe	Tyr	Met	Asn
1				5					10

<210> 181

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT HCDR1

<400> 181

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

<210> 182

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT HCDR1

<400> 182

Gly	Tyr	Thr	Phe	Thr	Asp	His	Tyr	Met	Asn
1				5					10

<210> 183

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-C-KIT HCDR2

<400> 183

Met	Gly	Arg	Ile	Tyr	Pro	Gly	Ala	Gly	Asn	Thr	Tyr	Tyr	Ala	Gln	Lys
1				5					10					15	

Phe Gln Gly

<210> 184
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-C-KIT HCDR3

<400> 184

Gly Val Trp Tyr Phe Asp Glu
1 5

<210> 185
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody MH1 heavy chain variable (VH) region

<400> 185

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

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

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

Gly Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe
50 55 60

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

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

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

Thr Val Ser Ser

115

<210> 186
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody MH1 VL light chain variable (VL) region

<400> 186

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

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

Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile
35 40 45

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

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

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 187
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody MH5-DI heavy chain variable (VH) region

<400> 187

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

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

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

Gly Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe
50 55 60

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

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

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

Thr Val Ser Ser
115

<210> 188
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody MH5-DI light chain variable (VL) region

<400> 188

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

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

Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile
35 40 45

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

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

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 189
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody MH5 heavy chain variable (VH) region

<400> 189

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

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

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

Gly Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe
50 55 60

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

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

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

Thr Val Ser Ser
115

<210> 190
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody MH5 light chain variable (VL) region

<400> 190

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

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

Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile
35 40 45

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

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

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 191
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody EC7 heavy chain variable (VH) region

<400> 191

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr

20

25

30

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

Gly Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe
 50 55 60

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

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

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

Thr Val Ser Ser
 115

<210> 192

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Antibody EC7 light chain variable (VL) region

<400> 192

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

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

Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile
 35 40 45

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro

65					70						75				80
Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Tyr	Asn	Ser	Tyr	Pro	Arg
				85					90					95	

Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
		100						105		

<210> 193
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Antibody EC2 heavy chain variable (VH) region

<400> 193

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

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

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

Gly	Arg	Ile	Tyr	Pro	Gly	Ser	Gly	Asn	Thr	Tyr	Tyr	Ala	Gln	Lys	Phe
	50					55					60				

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

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

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

Thr	Val	Ser	Ser
		115	

<210> 194

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

<220>

<223> Antibody EC2 light chain variable (VL) region

<400> 194

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

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

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

Tyr Ser Ala Ser Tyr Arg Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 195
<211> 116
<212> PRT
<213> Artificial Sequence

<220>

<223> Antibody F-C5 heavy chain variable (VH) region

<400> 195

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

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

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

Gly Arg Ile Tyr Pro Gly Ser Gly Asn Thr Tyr Tyr Ala Gln Lys Phe
50 55 60

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

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

Ala Arg Gly Val Tyr Tyr Phe Asp Glu Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ser
115

<210> 196
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody F-C5 light chain variable (VL) region

<400> 196

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

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

Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu Ile
35 40 45

Tyr Ala Ala Ser Ser Arg Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 197
<211> 330
<212> PRT
<213> Homo sapiens

<400> 197

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> 198
<211> 330
<212> PRT
<213> Homo sapiens

<400> 198

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> 199
<211> 330
<212> PRT
<213> Homo sapiens

<400> 199

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 Ser 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> 200
<211> 330
<212> PRT
<213> Homo sapiens

<400> 200

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> 201
<211> 330
<212> PRT
<213> Homo sapiens

<400> 201

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 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> 202
<211> 330
<212> PRT
<213> Homo sapiens

<400> 202

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 Ser 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
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Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
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Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe

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Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
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Arg Val Gly Asp Glu Ile Arg Leu Leu Cys Thr Asp Pro Gly Phe Val
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Lys Trp Thr Phe Glu Ile Leu Asp Glu Thr Asn Glu Asn Lys Gln Asn
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Glu Trp Ile Thr Glu Lys Ala Glu Ala Thr Asn Thr Gly Lys Tyr Thr
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Cys Thr Asn Lys His Gly Leu Ser Asn Ser Ile Tyr Val Phe Val Arg
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Asp Pro Ala Lys Leu Phe Leu Val Asp Arg Ser Leu Tyr Gly Lys Glu
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Asp Asn Asp Thr Leu Val Arg Cys Pro Leu Thr Asp Pro Glu Val Thr
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Asn Tyr Ser Leu Lys Gly Cys Gln Gly Lys Pro Leu Pro Lys Asp Leu
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Arg Phe Ile Pro Asp Pro Lys Ala Gly Ile Met Ile Lys Ser Val Lys
165 170 175

Arg Ala Tyr His Arg Leu Cys Leu His Cys Ser Val Asp Gln Glu Gly
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Lys Ser Val Leu Ser Glu Lys Phe Ile Leu Lys Val Arg Pro Ala Phe
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Lys Ala Val Pro Val Val Ser Val Ser Lys Ala Ser Tyr Leu Leu Arg
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Glu Gly Glu Glu Phe Thr Val Thr Cys Thr Ile Lys Asp Val Ser Ser
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Ser Val Tyr Ser Thr Trp Lys Arg Glu Asn Ser Gln Thr Lys Leu Gln
245 250 255

Glu Lys Tyr Asn Ser Trp His His Gly Asp Phe Asn Tyr Glu Arg Gln
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Ala Thr Leu Thr Ile Ser Ser Ala Arg Val Asn Asp Ser Gly Val Phe
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Met Cys Tyr Ala Asn Asn Thr Phe Gly Ser Ala Asn Val Thr Thr Thr

290

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300

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Tyr Glu Ala Phe Pro Lys Pro Glu His Gln Gln Trp Ile Tyr Met Asn
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Arg Thr Phe Thr Asp Lys Trp Glu Asp Tyr Pro Lys Ser Glu Asn Glu
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Ser Asn Ile Arg Tyr Val Ser Glu Leu His Leu Thr Arg Leu Lys Gly
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Thr Glu Gly Gly Thr Tyr Thr Phe Leu Val Ser Asn Ser Asp Val Asn
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Ala Ala Ile Ala Phe Asn Val Tyr Val Asn Thr Lys Pro Glu Ile Leu
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Arg Cys Ser Ala Ser Val Leu Pro Val Asp Val Gln Thr Leu Asn Ser
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Cys Cys Tyr Gly Asp Leu Leu Asn Phe Leu Arg Arg Lys Arg Asp Ser
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Phe Ile Cys Ser Lys Gln Glu Asp His Ala Glu Ala Ala Leu Tyr Lys
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Tyr Met Asp Met Lys Pro Gly Val Ser Tyr Val Val Pro Thr Lys Ala

725

730

735

Asp Lys Arg Arg Ser Val Arg Ile Gly Ser Tyr Ile Glu Arg Asp Val
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