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<110> ULTRAHUMAN THIRTEEN LIMITED

<120> ERBB3 BINDING AGENTS

<130> ULTH-001/01WO 332956-2002

<150> GB 1804094.9

<151> 2018-03-14

<160> 263

<170> PatentIn version 3.5

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Val Lys Gly

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Glu Trp Gly Asp Tyr Asp Gly Phe Asp
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<210> 75

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<400> 75

Ala Arg Glu Trp Gly Asp Tyr Asp Gly Phe Asp
1 5 10

<210> 76
<211> 11
<212> PRT
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<400> 76

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

<210> 77
<211> 6
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<400> 77

Gln Glu Ile Ser Gly Tyr
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<210> 78
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<400> 78

Ala Ser Gln Glu Ile Ser Gly Tyr
1 5

<210> 79
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<400> 79

Ile Ser Gly Tyr Leu Ser Trp Tyr
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<210> 80
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<400> 80

Ala Ala Ser Thr Leu Asp Ser
1 5

<210> 81
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<400> 81

Leu Leu Ile Tyr Ala Ala Ser Thr Leu Asp
1 5 10

<210> 82
<211> 9
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<400> 82

Leu Gln Tyr Asp Ser Tyr Pro Tyr Thr
1 5

<210> 83
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<400> 83

Tyr Asp Ser Tyr Pro Tyr
1 5

<210> 84
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<400> 84

Leu Gln Tyr Asp Ser Tyr Pro Tyr
1 5

<210> 85
<211> 119
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<220>
<223> h24C05-VH IGHV3-11

<400> 85

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

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

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

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

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

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

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

Thr Leu Val Thr Val Ser Ser
115

<210> 86
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> VH graft IGHV3-11

<400> 86

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly

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

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<220>
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<400> 87

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Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Glu	Ile	Ser	Gly	Tyr
			20					25					30		
Leu	Ser	Trp	Phe	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Ser	Leu	Ile
		35					40					45			
Tyr	Ala	Ala	Ser	Thr	Leu	Asp	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 Leu Gln Tyr Asp Ser Tyr Pro Tyr
 85 90 95

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

<210> 88

<211> 107

<212> PRT

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<220>

<223> VL graft IGKV1-39

<400> 88

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 Glu Ile Ser Gly Tyr
 20 25 30

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

Tyr Ala Ala Ser Thr Leu Asp 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 Leu Gln Tyr Asp Ser Tyr Pro Tyr
 85 90 95

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

<210> 89

<211> 11
<212> PRT
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<220>
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<400> 89

Arg Ala Ser Gln Ser Ile Ser Gly Tyr Leu Asn
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<210> 90
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<212> PRT
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<220>
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<400> 90

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

<210> 91
<211> 11
<212> PRT
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<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion LCDR1

<400> 91

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

<210> 92
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion LCDR1

<400> 92

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

<210> 93
<211> 7
<212> PRT
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<220>
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<400> 93

Ala Ala Ser Asn Leu Gln Ser
1 5

<210> 94
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion LCDR2

<400> 94

Ala Ala Ser Ser Leu His Ser
1 5

<210> 95
<211> 7
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<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion LCDR2

<400> 95

Glu Ala Ser Ser Leu Asp Ser
1 5

<210> 96
<211> 7
<212> PRT
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<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion LCDR2

<400> 96

Ala Ala Ser Ser Leu Lys Ser

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5

<210> 97
<211> 7
<212> PRT
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<220>
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<400> 97

Glu Ala Ser Ser Leu Gln Ser
1 5

<210> 98
<211> 9
<212> PRT
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<220>
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<400> 98

Leu Gln Tyr Tyr Ser Tyr Pro Tyr Thr
1 5

<210> 99
<211> 9
<212> PRT
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<400> 99

Gln Gln Tyr Asp Ser Tyr Pro Tyr Thr
1 5

<210> 100
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<220>
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<400> 100

Leu Gln Tyr Asp Ser Tyr Pro Leu Thr
1 5

<210> 101
<211> 9
<212> PRT
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<220>
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<400> 101

Gln Gln Tyr Asp Ser Thr Pro Tyr Thr
1 5

<210> 102
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<220>
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<400> 102

Leu Gln Ser Asp Ser Thr Pro Tyr Thr
1 5

<210> 103
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<400> 103

Leu Gln Ser Asp Ser Thr Pro Leu Thr
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<210> 104
<211> 9
<212> PRT
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<400> 104

Gln Gln Tyr Asp Ser Tyr Pro Leu Thr
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<210> 105

<211> 9

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<400> 105

Leu Gln Tyr Tyr Ser Tyr Pro Leu Thr
1 5

<210> 106

<211> 9

<212> PRT

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<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion LCDR3

<400> 106

Leu Gln Tyr Tyr Ser Thr Pro Tyr Thr
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<210> 107

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion LCDR3

<400> 107

Gln Gln Tyr Asp Ser Thr Pro Leu Thr
1 5

<210> 108

<211> 9

<212> PRT

<213> Artificial Sequence

<220>
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<400> 108

Leu Gln Tyr Asp Ser Tyr His Leu Thr
1 5

<210> 109
<211> 10
<212> PRT
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<220>
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<400> 109

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

<210> 110
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR1

<400> 110

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

<210> 111
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 111

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

<210> 112
<211> 10
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<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR1

<400> 112

Gly	Phe	Thr	Phe	Ser	Asp	Tyr	Asn	Met	Ser
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<210> 113

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR1

<400> 113

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

<210> 114

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR1

<400> 114

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

<210> 115

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR1

<400> 115

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<210> 116

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

<220>
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<400> 116

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

<210> 117
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 117

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

Val Lys Gly

<210> 118
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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<400> 118

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

Val Lys Gly

<210> 119
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 119

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

Val Lys Gly

<210> 120
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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<400> 120

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

Val Lys Gly

<210> 121
<211> 19
<212> PRT
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<220>
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<400> 121

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

Val Lys Gly

<210> 122
<211> 19
<212> PRT
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<220>
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<400> 122

Val Ser Thr Ile Ser Asp Gly Gly Ser Thr Ile Tyr Tyr Pro Asp Ser
1 5 10 15

Val Lys Gly

<210> 123
<211> 19
<212> PRT
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<220>
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<400> 123

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

Val Lys Gly

<210> 124
<211> 19
<212> PRT
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<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 124

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

Val Lys Gly

<210> 125
<211> 19
<212> PRT
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<220>
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<400> 125

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

Val Lys Gly

<210> 126
<211> 19
<212> PRT
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<220>
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<400> 126

Val	Ser	Thr	Ile	Ser	Asp	Gly	Gly	Ser	Thr	Thr	Tyr	Tyr	Pro	Asp	Ser
1				5					10					15	

Val Lys Gly

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

<220>
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<400> 127

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

Val Lys Gly

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

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 128

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

Val Lys Gly

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

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 129

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

Val Lys Gly

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

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 130

Val Ser Thr Ile Ser Asp Gly Gly Ser Tyr Ile Tyr Tyr Pro Asp Ser
1 5 10 15

Val Lys Gly

<210> 131
<211> 19
<212> PRT
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<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 131

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

Val Lys Gly

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

<220>
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<400> 132

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

Val Lys Gly

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

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 133

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

Val Lys Gly

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

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 134

Val	Ser	Thr	Ile	Ser	Asp	Gly	Gly	Thr	Thr	Ile	Tyr	Tyr	Pro	Asp	Ser
1				5					10					15	

Val Lys Gly

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

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 135

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

Val Lys Gly

<210> 136
<211> 19
<212> PRT
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<220>
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<400> 136

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

Val Lys Gly

<210> 137
<211> 19
<212> PRT
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<220>
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<400> 137

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

<210> 138
<211> 19
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<220>
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<400> 138

Val	Ser	Thr	Ile	Ser	Asp	Gly	Gly	Thr	Thr	Thr	Tyr	Tyr	Pro	Asp	Ser
1				5					10					15	

Val Lys Gly

<210> 139
<211> 19
<212> PRT
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<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 139

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

Val Lys Gly

<210> 140
<211> 19
<212> PRT
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<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 140

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

Val Lys Gly

<210> 141
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<212> PRT
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<220>
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<400> 141

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

Val Lys Gly

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

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 142

Val	Ser	Thr	Ile	Ser	Asp	Gly	Gly	Thr	Tyr	Ile	Tyr	Tyr	Pro	Asp	Ser
1				5					10					15	

Val Lys Gly

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

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 143

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

Val Lys Gly

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

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 144

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

Val Lys Gly

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

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 145

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

Val Lys Gly

<210> 146
<211> 19
<212> PRT
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<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 146

Val	Ser	Thr	Ile	Ser	Asp	Gly	Gly	Thr	Tyr	Thr	Tyr	Tyr	Pro	Asp	Ser
1				5					10					15	

Val Lys Gly

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

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 147

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

Val Lys Gly

<210> 148
<211> 19
<212> PRT
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<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 148

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

Val Lys Gly

<210> 149
<211> 19
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<220>
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<400> 149

Val	Ser	Thr	Ile	Ser	Asp	Ser	Gly	Ser	Thr	Ile	Tyr	Tyr	Pro	Asp	Ser
1				5					10					15	

Val Lys Gly

<210> 150
<211> 19
<212> PRT
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<220>
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<400> 150

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

Val Lys Gly

<210> 151
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 151

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

Val Lys Gly

<210> 152
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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<400> 152

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

Val Lys Gly

<210> 153
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 153

Val Ser Thr Ile Ser Asp Ser Gly Ser Thr Thr Tyr Tyr Pro Asp Ser
1 5 10 15

Val Lys Gly

<210> 154
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 154

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

Val Lys Gly

<210> 155
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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<400> 155

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

Val Lys Gly

<210> 156
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 156

Val	Ser	Thr	Ile	Ser	Asp	Ser	Gly	Ser	Tyr	Ile	Tyr	Tyr	Pro	Asp	Ser
1				5					10					15	

Val Lys Gly

<210> 157
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 157

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

Val Lys Gly

<210> 158
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 158

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

Val Lys Gly

<210> 159
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 159

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

Val Lys Gly

<210> 160
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 160

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

Val Lys Gly

<210> 161
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 161

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

Val Lys Gly

<210> 162
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 162

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

Val Lys Gly

<210> 163
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 163

Val Ser Thr Ile Ser Asp Ser Gly Thr Thr Thr Tyr Tyr Pro Asp Ser
1 5 10 15

Val Lys Gly

<210> 164
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 164

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

Val Lys Gly

<210> 165
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 165

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

Val Lys Gly

<210> 166
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 166

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

Val Lys Gly

<210> 167
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 167

Val Ser Thr Ile Ser Asp Ser Gly Thr Tyr Ile Tyr Tyr Pro Asp Ser
1 5 10 15

Val Lys Gly

<210> 168
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 168

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

Val Lys Gly

<210> 169
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 169

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

Val Lys Gly

<210> 170
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 170

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

Val Lys Gly

<210> 171
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 171

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

Val Lys Gly

<210> 172
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 172

Val	Ser	Thr	Ile	Ser	Ser	Gly	Gly	Ser	Tyr	Ile	Tyr	Tyr	Pro	Asp	Ser
1				5					10					15	

Val Lys Gly

<210> 173
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 173

Val Ser Thr Ile Ser Ser Gly Gly Ser Tyr Thr Tyr Tyr Pro Asp Ser
1 5 10 15

Val Lys Gly

<210> 174
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 174

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

Val Lys Gly

<210> 175
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 175

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

Val Lys Gly

<210> 176
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 176

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

Val Lys Gly

<210> 177
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 177

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

Val Lys Gly

<210> 178
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 178

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

Val Lys Gly

<210> 179
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 179

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

Val Lys Gly

<210> 180
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR2

<400> 180

Val Ser Tyr Ile Ser Asp Ser Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser
1 5 10 15

Val Lys Gly

<210> 181
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 181

Glu Phe Gly Asp Tyr Asp Gly Phe Asp Phe
1 5 10

<210> 182
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 182

Glu Phe Gly Asp Tyr Asp Gly Phe Asp Tyr
1 5 10

<210> 183
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 183

Glu Leu Gly Asp Tyr Asp Gly Trp Asp Tyr
1 5 10

<210> 184
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 184

Glu Met Gly Asp Tyr Asp Gly Phe Asp Tyr
1 5 10

<210> 185
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 185

Glu Gln Gly Asp Tyr Asp Gly Phe Asp Ile
1 5 10

<210> 186
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 186

Glu	Trp	Gly	Asp	Ala	Asp	Gly	Phe	Asp	Tyr
1				5					10

<210> 187

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 187

Glu	Trp	Gly	Asp	Asp	Asp	Gly	Phe	Asp	Tyr
1				5					10

<210> 188

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 188

Glu	Trp	Gly	Asp	Glu	Asp	Gly	Phe	Asp	Tyr
1				5					10

<210> 189

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 189

Glu	Trp	Gly	Asp	His	Asp	Gly	Phe	Asp	Tyr
1				5					10

<210> 190

<211> 10

<212> PRT

<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 190

Glu Trp Gly Asp Leu Asp Gly Phe Asp Tyr
1 5 10

<210> 191
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 191

Glu Trp Gly Asp Met Asp Gly Phe Asp Arg
1 5 10

<210> 192
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 192

Glu Trp Gly Asp Met Asp Gly Phe Asp Tyr
1 5 10

<210> 193
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 193

Glu Trp Gly Asp Asn Asp Gly Phe Asp Tyr
1 5 10

<210> 194
<211> 10
<212> PRT

<213> Artificial Sequence

<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 194

Glu	Trp	Gly	Asp	Gln	Asp	Gly	Phe	Asp	Tyr
1				5					10

<210> 195

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 195

Glu	Trp	Gly	Asp	Ser	Asp	Gly	Phe	Asp	Tyr
1				5					10

<210> 196

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 196

Glu	Trp	Gly	Asp	Thr	Asp	Gly	Phe	Asp	Tyr
1				5					10

<210> 197

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 197

Glu	Trp	Gly	Asp	Trp	Asp	Gly	Phe	Asp	Tyr
1				5					10

<210> 198

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

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 198

Glu Trp Gly Asp Tyr Asp Gly Cys Asp Tyr
1 5 10

<210> 199
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 199

Glu Trp Gly Asp Tyr Asp Gly Phe Asp Ala
1 5 10

<210> 200
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 200

Glu Trp Gly Asp Tyr Asp Gly Phe Asp Asp
1 5 10

<210> 201
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 201

Glu Trp Gly Asp Tyr Asp Gly Phe Asp Ile
1 5 10

<210> 202
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 202

Glu Trp Gly Asp Tyr Asp Gly Phe Asp Lys
1 5 10

<210> 203
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 203

Glu Trp Gly Asp Tyr Asp Gly Phe Asp Leu
1 5 10

<210> 204
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 204

Glu Trp Gly Asp Tyr Asp Gly Phe Asp Met
1 5 10

<210> 205
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 205

Glu Trp Gly Asp Tyr Asp Gly Phe Asp Gln

1 5 10

<210> 206
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 206

Glu Trp Gly Asp Tyr Asp Gly Phe Asp Arg
1 5 10

<210> 207
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 207

Glu Trp Gly Asp Tyr Asp Gly Phe Asp Ser
1 5 10

<210> 208
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 208

Glu Trp Gly Asp Tyr Asp Gly Phe Asp Val
1 5 10

<210> 209
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 209

Glu Trp Gly Asp Tyr Asp Gly Phe Asp Trp
1 5 10

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

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 210

Glu Trp Gly Asp Tyr Asp Gly Phe Asp Tyr
1 5 10

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

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 211

Glu Trp Gly Asp Tyr Asp Gly Phe His Tyr
1 5 10

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

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 212

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

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

<220>
<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 213

Glu Trp Gly Asp Tyr Asp Gly Leu Asp Tyr
1 5 10

<210> 214

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 214

Glu Trp Gly Asp Tyr Asp Gly Trp Asp Tyr
1 5 10

<210> 215

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 215

Glu Trp Gly Asp Tyr Asp Gly Tyr Asp Tyr
1 5 10

<210> 216

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion HCDR3

<400> 216

Met Trp Gly Asp Tyr Asp Gly Phe Asp Tyr
1 5 10

<210> 217

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> 15G11-DI1 VL

<400> 217

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 Glu Ile Ser Ser Tyr
20 25 30

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

Tyr Ala Ala Ser Ser Leu Asp Thr 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 Leu Gln Tyr Asp Ser Thr Pro Tyr
85 90 95

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

<210> 218

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> 15G11-DI2 VL

<400> 218

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 Glu Ile Ser Thr Tyr
20 25 30

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

Tyr Ala Ala Ser Ser Leu Asp Thr 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 Leu Gln Tyr Asp Ser Thr Pro Tyr
85 90 95

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

<210> 219
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> 15G11-DI3 VL

<400> 219

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 Glu Ile Ser Ser Tyr
20 25 30

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

Tyr Ala Ala Ser Ser Leu Asp Thr 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 Leu Gln Tyr Asp Ser Ser Pro Tyr
85 90 95

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

<210> 220
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> 15G11-DI4 VL

<400> 220

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 Glu Ile Ser Thr Tyr
20 25 30

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

Tyr Ala Ala Ser Ser Leu Asp Thr 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 Leu Gln Tyr Asp Ser Ser Pro Tyr
85 90 95

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

<210> 221
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> 15G11-DI5 VL

<400> 221

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 Glu Ile Ser Ser Tyr

20

25

30

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

Tyr Ala Ala Ser Ser Leu Asp Thr 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 Leu Gln Tyr Asp Ser Thr Pro Tyr
 85 90 95

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

<210> 222
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> 15G11-DI6 VL

<400> 222

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 Glu Ile Ser Thr Tyr
 20 25 30

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

Tyr Ala Ala Ser Ser Leu Asp Thr 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 Leu Gln Tyr Asp Ser Thr Pro Tyr

85

90

95

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

<210> 223
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> 15G11-DI7 VL

<400> 223

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 Glu Ile Ser Ser Tyr
 20 25 30

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

Tyr Ala Ala Ser Ser Leu Asp Thr 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 Leu Gln Tyr Asp Ser Ser Pro Tyr
 85 90 95

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

<210> 224
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> 15G11-DI8 VL

<400> 224

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 Glu Ile Ser Thr Tyr
20 25 30

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

Tyr Ala Ala Ser Ser Leu Asp Thr 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 Leu Gln Tyr Asp Ser Ser Pro Tyr
85 90 95

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

<210> 225
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> 15G11-DI9 VL

<400> 225

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 Glu Ile Ser Thr Tyr
20 25 30

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

Tyr Ala Ala Ser Thr 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 Leu Gln Tyr Asp Ser Ser Pro Leu
85 90 95

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

<210> 226
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> 15G11-DI10 VL

<400> 226

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 Glu Ile Ser Ser Tyr
20 25 30

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

Tyr Ala Ala Ser Ser Leu Asp 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 Leu Gln Tyr Asp Ser Thr Pro Tyr
85 90 95

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

<210> 227
<211> 107
<212> PRT

<213> Artificial Sequence

<220>

<223> 15G11-DI11 VL

<400> 227

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 Glu Ala Ser Ser Tyr
20 25 30

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

Tyr Ala Ala Ser Ser Leu Asp 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 Leu Gln Tyr Asp Ser Ser Pro Tyr
85 90 95

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

<210> 228

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> 15G11-DI1 VH

<400> 228

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

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

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

35

40

45

Ser Thr Ile Ser Asp Ser Gly Ser Tyr Thr Tyr Tyr Pro Asp Ser Val
 50 55 60

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

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

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

Thr Leu Val Thr Val Ser Ser
 115

<210> 229

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> 15G11-DI2 VH

<400> 229

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

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

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

Ser Thr Ile Ser Asp Ser Gly Ser Tyr Thr Tyr Tyr Pro Asp Ser Val
 50 55 60

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

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

85

90

95

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

Thr Leu Val Thr Val Ser Ser
 115

<210> 230
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> 15G11-DI3 VH

<400> 230

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

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

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

Ser Thr Ile Ser Asp Ser Gly Ser Tyr Thr Tyr Tyr Pro Asp Ser Val
 50 55 60

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

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

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

Thr Leu Val Thr Val Ser Ser
 115

<210> 231

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

<220>
<223> 15G11-DI4 VH

<400> 231

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

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

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

Ser Thr Ile Ser Asp Ser Gly Ser Tyr Thr Tyr Tyr Pro Asp Ser Val
50 55 60

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

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

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

Thr Leu Val Thr Val Ser Ser
115

<210> 232
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> 15G11-DI5 VH

<400> 232

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

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

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

Ser Thr Ile Ser Asp Ser Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val
50 55 60

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

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

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

Thr Leu Val Thr Val Ser Ser
115

<210> 233
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> 15G11-DI6 VH

<400> 233

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

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

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

Ser Thr Ile Ser Asp Ser Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val
50 55 60

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

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

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

Thr Leu Val Thr Val Ser Ser
115

<210> 234
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> 15G11-DI7 VH

<400> 234

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

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

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

Ser Thr Ile Ser Asp Ser Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val
50 55 60

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

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

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

Thr Leu Val Thr Val Ser Ser
115

<210> 235
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> 15G11-DI8 VH

<400> 235

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

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

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

Ser Thr Ile Ser Asp Ser Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val
50 55 60

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

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

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

Thr Leu Val Thr Val Ser Ser
115

<210> 236
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> 15G11-DI9 VH

<400> 236

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

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

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

Ser Thr Ile Ser Asp Ser Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val
50 55 60

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

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

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

Thr Leu Val Thr Val Ser Ser
115

<210> 237

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> 15G11-DI10 VH

<400> 237

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

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

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

35

40

45

Ser Thr Ile Ser Asp Ser Gly Ser Tyr Thr Tyr Tyr Pro Asp Ser Val
 50 55 60

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

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

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

Thr Leu Val Thr Val Ser Ser
 115

<210> 238
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> 15G11-DI11 VH

<400> 238

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

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

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

Ser Thr Ile Ser Asp Ser Gly Ser Tyr Thr Tyr Tyr Pro Asp Ser Val
 50 55 60

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

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

85

90

95

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

Thr Leu Val Thr Val Ser Ser
 115

<210> 239
 <211> 327
 <212> PRT
 <213> Homo sapiens

<400> 239

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> 240
<211> 327
<212> PRT
<213> Homo sapiens

<400> 240

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> 241
 <211> 330
 <212> PRT
 <213> Homo sapiens

<400> 241

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> 242
<211> 330
<212> PRT
<213> Homo sapiens

<400> 242

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> 243

<211> 326

<212> PRT

<213> Homo sapiens

<400> 243

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> 244
<211> 330
<212> PRT
<213> Homo sapiens

<400> 244

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> 245
<211> 329
<212> PRT
<213> Homo sapiens

<400> 245

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
325

<210> 246
<211> 1342
<212> PRT
<213> Homo sapiens

<400> 246

Met Arg Ala Asn Asp Ala Leu Gln Val Leu Gly Leu Leu Phe Ser Leu
1 5 10 15

Ala Arg Gly Ser Glu Val Gly Asn Ser Gln Ala Val Cys Pro Gly Thr
20 25 30

Leu Asn Gly Leu Ser Val Thr Gly Asp Ala Glu Asn Gln Tyr Gln Thr
35 40 45

Leu Tyr Lys Leu Tyr Glu Arg Cys Glu Val Val Met Gly Asn Leu Glu
50 55 60

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

Arg Glu Val Thr Gly Tyr Val Leu Val Ala Met Asn Glu Phe Ser Thr
85 90 95

Leu Pro Leu Pro Asn Leu Arg Val Val Arg Gly Thr Gln Val Tyr Asp
100 105 110

Gly Lys Phe Ala Ile Phe Val Met Leu Asn Tyr Asn Thr Asn Ser Ser
115 120 125

His Ala Leu Arg Gln Leu Arg Leu Thr Gln Leu Thr Glu Ile Leu Ser
130 135 140

Gly Gly Val Tyr Ile Glu Lys Asn Asp Lys Leu Cys His Met Asp Thr
145 150 155 160

Ile Asp Trp Arg Asp Ile Val Arg Asp Arg Asp Ala Glu Ile Val Val
165 170 175

Lys Asp Asn Gly Arg Ser Cys Pro Pro Cys His Glu Val Cys Lys Gly
180 185 190

Arg Cys Trp Gly Pro Gly Ser Glu Asp Cys Gln Thr Leu Thr Lys Thr
195 200 205

Ile Cys Ala Pro Gln Cys Asn Gly His Cys Phe Gly Pro Asn Pro Asn
210 215 220

Gln Cys Cys His Asp Glu Cys Ala Gly Gly Cys Ser Gly Pro Gln Asp
225 230 235 240

Thr Asp Cys Phe Ala Cys Arg His Phe Asn Asp Ser Gly Ala Cys Val
245 250 255

Pro Arg Cys Pro Gln Pro Leu Val Tyr Asn Lys Leu Thr Phe Gln Leu
260 265 270

Glu Pro Asn Pro His Thr Lys Tyr Gln Tyr Gly Gly Val Cys Val Ala
275 280 285

Ser Cys Pro His Asn Phe Val Val Asp Gln Thr Ser Cys Val Arg Ala
290 295 300

Cys Pro Pro Asp Lys Met Glu Val Asp Lys Asn Gly Leu Lys Met Cys
305 310 315 320

Glu Pro Cys Gly Gly Leu Cys Pro Lys Ala Cys Glu Gly Thr Gly Ser
325 330 335

Gly Ser Arg Phe Gln Thr Val Asp Ser Ser Asn Ile Asp Gly Phe Val
340 345 350

Asn Cys Thr Lys Ile Leu Gly Asn Leu Asp Phe Leu Ile Thr Gly Leu
355 360 365

Asn Gly Asp Pro Trp His Lys Ile Pro Ala Leu Asp Pro Glu Lys Leu
370 375 380

Asn Val Phe Arg Thr Val Arg Glu Ile Thr Gly Tyr Leu Asn Ile Gln
385 390 395 400

Ser Trp Pro Pro His Met His Asn Phe Ser Val Phe Ser Asn Leu Thr

405

410

415

Thr Ile Gly Gly Arg Ser Leu Tyr Asn Arg Gly Phe Ser Leu Leu Ile
 420 425 430

Met Lys Asn Leu Asn Val Thr Ser Leu Gly Phe Arg Ser Leu Lys Glu
 435 440 445

Ile Ser Ala Gly Arg Ile Tyr Ile Ser Ala Asn Arg Gln Leu Cys Tyr
 450 455 460

His His Ser Leu Asn Trp Thr Lys Val Leu Arg Gly Pro Thr Glu Glu
 465 470 475 480

Arg Leu Asp Ile Lys His Asn Arg Pro Arg Arg Asp Cys Val Ala Glu
 485 490 495

Gly Lys Val Cys Asp Pro Leu Cys Ser Ser Gly Gly Cys Trp Gly Pro
 500 505 510

Gly Pro Gly Gln Cys Leu Ser Cys Arg Asn Tyr Ser Arg Gly Gly Val
 515 520 525

Cys Val Thr His Cys Asn Phe Leu Asn Gly Glu Pro Arg Glu Phe Ala
 530 535 540

His Glu Ala Glu Cys Phe Ser Cys His Pro Glu Cys Gln Pro Met Glu
 545 550 555 560

Gly Thr Ala Thr Cys Asn Gly Ser Gly Ser Asp Thr Cys Ala Gln Cys
 565 570 575

Ala His Phe Arg Asp Gly Pro His Cys Val Ser Ser Cys Pro His Gly
 580 585 590

Val Leu Gly Ala Lys Gly Pro Ile Tyr Lys Tyr Pro Asp Val Gln Asn
 595 600 605

Glu Cys Arg Pro Cys His Glu Asn Cys Thr Gln Gly Cys Lys Gly Pro
 610 615 620

Glu Leu Gln Asp Cys Leu Gly Gln Thr Leu Val Leu Ile Gly Lys Thr
625 630 635 640

His Leu Thr Met Ala Leu Thr Val Ile Ala Gly Leu Val Val Ile Phe
645 650 655

Met Met Leu Gly Gly Thr Phe Leu Tyr Trp Arg Gly Arg Arg Ile Gln
660 665 670

Asn Lys Arg Ala Met Arg Arg Tyr Leu Glu Arg Gly Glu Ser Ile Glu
675 680 685

Pro Leu Asp Pro Ser Glu Lys Ala Asn Lys Val Leu Ala Arg Ile Phe
690 695 700

Lys Glu Thr Glu Leu Arg Lys Leu Lys Val Leu Gly Ser Gly Val Phe
705 710 715 720

Gly Thr Val His Lys Gly Val Trp Ile Pro Glu Gly Glu Ser Ile Lys
725 730 735

Ile Pro Val Cys Ile Lys Val Ile Glu Asp Lys Ser Gly Arg Gln Ser
740 745 750

Phe Gln Ala Val Thr Asp His Met Leu Ala Ile Gly Ser Leu Asp His
755 760 765

Ala His Ile Val Arg Leu Leu Gly Leu Cys Pro Gly Ser Ser Leu Gln
770 775 780

Leu Val Thr Gln Tyr Leu Pro Leu Gly Ser Leu Leu Asp His Val Arg
785 790 795 800

Gln His Arg Gly Ala Leu Gly Pro Gln Leu Leu Leu Asn Trp Gly Val
805 810 815

Gln Ile Ala Lys Gly Met Tyr Tyr Leu Glu Glu His Gly Met Val His
820 825 830

Arg Asn Leu Ala Ala Arg Asn Val Leu Leu Lys Ser Pro Ser Gln Val

835

840

845

Gln Val Ala Asp Phe Gly Val Ala Asp Leu Leu Pro Pro Asp Asp Lys
 850 855 860

Gln Leu Leu Tyr Ser Glu Ala Lys Thr Pro Ile Lys Trp Met Ala Leu
 865 870 875 880

Glu Ser Ile His Phe Gly Lys Tyr Thr His Gln Ser Asp Val Trp Ser
 885 890 895

Tyr Gly Val Thr Val Trp Glu Leu Met Thr Phe Gly Ala Glu Pro Tyr
 900 905 910

Ala Gly Leu Arg Leu Ala Glu Val Pro Asp Leu Leu Glu Lys Gly Glu
 915 920 925

Arg Leu Ala Gln Pro Gln Ile Cys Thr Ile Asp Val Tyr Met Val Met
 930 935 940

Val Lys Cys Trp Met Ile Asp Glu Asn Ile Arg Pro Thr Phe Lys Glu
 945 950 955 960

Leu Ala Asn Glu Phe Thr Arg Met Ala Arg Asp Pro Pro Arg Tyr Leu
 965 970 975

Val Ile Lys Arg Glu Ser Gly Pro Gly Ile Ala Pro Gly Pro Glu Pro
 980 985 990

His Gly Leu Thr Asn Lys Lys Leu Glu Glu Val Glu Leu Glu Pro Glu
 995 1000 1005

Leu Asp Leu Asp Leu Asp Leu Glu Ala Glu Glu Asp Asn Leu Ala
 1010 1015 1020

Thr Thr Thr Leu Gly Ser Ala Leu Ser Leu Pro Val Gly Thr Leu
 1025 1030 1035

Asn Arg Pro Arg Gly Ser Gln Ser Leu Leu Ser Pro Ser Ser Gly
 1040 1045 1050

Tyr	Met	Pro	Met	Asn	Gln	Gly	Asn	Leu	Gly	Glu	Ser	Cys	Gln	Glu
	1055					1060					1065			
Ser	Ala	Val	Ser	Gly	Ser	Ser	Glu	Arg	Cys	Pro	Arg	Pro	Val	Ser
	1070					1075					1080			
Leu	His	Pro	Met	Pro	Arg	Gly	Cys	Leu	Ala	Ser	Glu	Ser	Ser	Glu
	1085					1090					1095			
Gly	His	Val	Thr	Gly	Ser	Glu	Ala	Glu	Leu	Gln	Glu	Lys	Val	Ser
	1100					1105					1110			
Met	Cys	Arg	Ser	Arg	Ser	Arg	Ser	Arg	Ser	Pro	Arg	Pro	Arg	Gly
	1115					1120					1125			
Asp	Ser	Ala	Tyr	His	Ser	Gln	Arg	His	Ser	Leu	Leu	Thr	Pro	Val
	1130					1135					1140			
Thr	Pro	Leu	Ser	Pro	Pro	Gly	Leu	Glu	Glu	Glu	Asp	Val	Asn	Gly
	1145					1150					1155			
Tyr	Val	Met	Pro	Asp	Thr	His	Leu	Lys	Gly	Thr	Pro	Ser	Ser	Arg
	1160					1165					1170			
Glu	Gly	Thr	Leu	Ser	Ser	Val	Gly	Leu	Ser	Ser	Val	Leu	Gly	Thr
	1175					1180					1185			
Glu	Glu	Glu	Asp	Glu	Asp	Glu	Glu	Tyr	Glu	Tyr	Met	Asn	Arg	Arg
	1190					1195					1200			
Arg	Arg	His	Ser	Pro	Pro	His	Pro	Pro	Arg	Pro	Ser	Ser	Leu	Glu
	1205					1210					1215			
Glu	Leu	Gly	Tyr	Glu	Tyr	Met	Asp	Val	Gly	Ser	Asp	Leu	Ser	Ala
	1220					1225					1230			
Ser	Leu	Gly	Ser	Thr	Gln	Ser	Cys	Pro	Leu	His	Pro	Val	Pro	Ile
	1235					1240					1245			
Met	Pro	Thr	Ala	Gly	Thr	Thr	Pro	Asp	Glu	Asp	Tyr	Glu	Tyr	Met

1250

1255

1260

Asn Arg Gln Arg Asp Gly Gly Gly Pro Gly Gly Asp Tyr Ala Ala
 1265 1270 1275

Met Gly Ala Cys Pro Ala Ser Glu Gln Gly Tyr Glu Glu Met Arg
 1280 1285 1290

Ala Phe Gln Gly Pro Gly His Gln Ala Pro His Val His Tyr Ala
 1295 1300 1305

Arg Leu Lys Thr Leu Arg Ser Leu Glu Ala Thr Asp Ser Ala Phe
 1310 1315 1320

Asp Asn Pro Asp Tyr Trp His Ser Arg Leu Phe Pro Lys Ala Asn
 1325 1330 1335

Ala Gln Arg Thr
 1340

<210> 247
 <211> 1342
 <212> PRT
 <213> Macaca mulatta

<400> 247

Met Arg Ala Asn Gly Ala Leu Gln Val Leu Gly Leu Leu Phe Asn Leu
 1 5 10 15

Ala Arg Gly Ser Glu Val Gly Asn Ser Gln Ala Val Cys Pro Gly Thr
 20 25 30

Leu Asn Gly Leu Ser Val Thr Gly Asp Ala Glu Asn Gln Tyr Gln Thr
 35 40 45

Leu Tyr Lys Leu Tyr Glu Arg Cys Glu Val Val Met Gly Asn Leu Glu
 50 55 60

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

Arg Glu Val Thr Gly Tyr Val Leu Val Ala Met Asn Glu Phe Ser Thr
85 90 95

Leu Pro Leu Pro Asn Leu Arg Val Val Arg Gly Thr Gln Val Tyr Asp
100 105 110

Gly Lys Phe Ala Ile Phe Val Met Leu Asn Tyr Asn Thr Asn Ser Ser
115 120 125

His Ala Leu Arg Gln Leu Arg Leu Thr Gln Leu Thr Glu Ile Leu Ser
130 135 140

Gly Gly Val Tyr Ile Glu Lys Asn Asp Lys Leu Cys His Met Asp Thr
145 150 155 160

Ile Asp Trp Lys Asp Ile Val Arg Asp Gln Asp Ala Glu Ile Val Val
165 170 175

Lys Asp Asn Gly Arg Ser Cys Pro Leu Cys His Glu Val Cys Lys Gly
180 185 190

Arg Cys Trp Gly Pro Gly Pro Glu Asp Cys Gln Thr Leu Thr Lys Thr
195 200 205

Ile Cys Ala Pro Gln Cys Asn Gly His Cys Phe Gly Pro Asn Pro Asn
210 215 220

Gln Cys Cys His Asp Glu Cys Ala Gly Gly Cys Ser Gly Pro Gln Asp
225 230 235 240

Thr Asp Cys Phe Ala Cys Arg His Phe Asn Asp Ser Gly Ala Cys Val
245 250 255

Pro Arg Cys Pro Gln Pro Leu Val Tyr Asn Lys Leu Thr Phe Gln Leu
260 265 270

Glu Pro Asn Pro His Thr Lys Tyr Gln Tyr Gly Gly Val Cys Val Ala
275 280 285

Ser Cys Pro His Asn Phe Val Val Asp Gln Thr Ser Cys Val Arg Ala
290 295 300

Cys Pro Pro Asp Lys Met Glu Val Asp Lys Asn Gly Leu Lys Met Cys
305 310 315 320

Glu Pro Cys Gly Gly Leu Cys Pro Lys Ala Cys Glu Gly Thr Gly Ser
325 330 335

Gly Ser Arg Phe Gln Thr Val Asp Ser Ser Asn Ile Asp Gly Phe Val
340 345 350

Asn Cys Thr Lys Ile Leu Gly Asn Leu Asp Phe Leu Ile Thr Gly Leu
355 360 365

Asn Gly Asp Pro Trp His Lys Ile Pro Ala Leu Asp Pro Glu Lys Leu
370 375 380

Asn Val Phe Arg Thr Val Arg Glu Ile Thr Gly Tyr Leu Asn Ile Gln
385 390 395 400

Ser Trp Pro Pro His Met Tyr Asn Phe Ser Val Phe Ser Asn Leu Thr
405 410 415

Thr Ile Gly Gly Arg Ser Leu Tyr Asn Arg Gly Phe Ser Leu Leu Ile
420 425 430

Met Lys Asn Leu Asn Val Thr Ser Leu Gly Phe Arg Ser Leu Lys Glu
435 440 445

Ile Ser Ala Gly Arg Ile Tyr Ile Ser Ala Asn Arg Gln Leu Cys Tyr
450 455 460

His His Ser Leu Asn Trp Thr Lys Val Leu Arg Gly Pro Thr Glu Glu
465 470 475 480

Arg Leu Asp Ile Lys His Asn Arg Pro Arg Arg Asp Cys Val Ala Glu
485 490 495

Gly Lys Val Cys Asp Pro Leu Cys Ser Ser Gly Gly Cys Trp Gly Pro
500 505 510

Gly Pro Gly Gln Cys Leu Ser Cys Arg Asn Tyr Ser Arg Gly Gly Val
515 520 525

Cys Val Thr His Cys Asn Phe Leu Asn Gly Glu Pro Arg Glu Phe Ala
530 535 540

His Glu Ala Glu Cys Phe Ser Cys His Pro Glu Cys Gln Pro Met Glu
545 550 555 560

Gly Thr Ala Thr Cys Asn Gly Ser Gly Ser Asp Thr Cys Ala Gln Cys
565 570 575

Ala His Phe Arg Asp Gly Pro His Cys Val Ser Ser Cys Pro His Gly
580 585 590

Val Leu Gly Ala Lys Gly Pro Ile Tyr Lys Tyr Pro Asp Val Gln Asn
595 600 605

Glu Cys Arg Pro Cys His Glu Asn Cys Thr Gln Gly Cys Lys Gly Pro
610 615 620

Glu Leu Gln Asp Cys Leu Gly Gln Thr Leu Val Leu Ile Gly Lys Thr
625 630 635 640

His Leu Thr Met Ala Leu Thr Val Ile Ala Gly Leu Val Val Ile Phe
645 650 655

Met Met Leu Gly Gly Thr Phe Leu Tyr Trp Arg Gly Arg Arg Ile Gln
660 665 670

Asn Lys Arg Ala Met Arg Arg Tyr Leu Glu Arg Gly Glu Ser Ile Glu
675 680 685

Pro Leu Asp Pro Ser Glu Lys Ala Asn Lys Val Leu Ala Arg Ile Phe
690 695 700

Lys Glu Thr Glu Leu Arg Lys Leu Lys Val Leu Gly Ser Gly Val Phe
705 710 715 720

Gly Thr Val His Lys Gly Val Trp Ile Pro Glu Gly Glu Ser Ile Lys
725 730 735

Ile Pro Val Cys Ile Lys Ile Ile Glu Asp Lys Ser Gly Arg Gln Ser
740 745 750

Phe Gln Ala Val Thr Asp His Met Leu Ala Ile Gly Ser Leu Asp His
755 760 765

Ala His Ile Val Arg Leu Leu Gly Leu Cys Pro Gly Ser Ser Leu Gln
770 775 780

Leu Val Thr Gln Tyr Leu Pro Leu Gly Ser Leu Leu Asp His Val Arg
785 790 795 800

Gln His Arg Gly Ala Leu Gly Pro Gln Leu Leu Leu Asn Trp Gly Val
805 810 815

Gln Ile Ala Lys Gly Met Tyr Tyr Leu Glu Glu His Gly Met Val His
820 825 830

Arg Asn Leu Ala Ala Arg Asn Val Leu Leu Lys Ser Pro Ser Gln Val
835 840 845

Gln Val Ala Asp Phe Gly Val Ala Asp Leu Leu Pro Pro Asp Asp Lys
850 855 860

Gln Leu Leu Tyr Ser Glu Ala Lys Thr Pro Ile Lys Trp Met Ala Leu
865 870 875 880

Glu Ser Ile His Phe Gly Lys Tyr Thr His Gln Ser Asp Val Trp Ser
885 890 895

Tyr Gly Val Thr Val Trp Glu Leu Met Thr Phe Gly Ala Glu Pro Tyr
900 905 910

Ala Gly Leu Arg Leu Ala Glu Val Pro Asp Leu Leu Glu Lys Gly Glu
915 920 925

Arg Leu Ala Gln Pro Gln Ile Cys Thr Ile Asp Val Tyr Met Val Met
930 935 940

Val Lys Cys Trp Met Ile Asp Glu Asn Ile Arg Pro Thr Phe Lys Glu
945 950 955 960

Leu Ala Asn Glu Phe Thr Arg Met Ala Arg Asp Pro Pro Arg Tyr Leu
965 970 975

Val Ile Lys Arg Glu Ser Gly Pro Gly Ile Ala Pro Gly Pro Glu Pro
980 985 990

His Gly Leu Thr Asn Lys Lys Leu Glu Glu Val Glu Leu Glu Pro Glu
995 1000 1005

Leu Asp Leu Asp Leu Asp Leu Glu Ala Glu Glu Asp Asn Leu Ala
1010 1015 1020

Thr Thr Thr Leu Gly Ser Ala Leu Ser Leu Pro Val Gly Thr Leu
1025 1030 1035

Asn Arg Pro Arg Gly Ser Gln Ser Leu Leu Ser Pro Ser Ser Gly
1040 1045 1050

Tyr Met Pro Met Asn Gln Gly Asn Leu Gly Glu Ala Cys Gln Glu
1055 1060 1065

Ser Ala Val Ser Gly Ser Ser Glu Trp Cys Pro Arg Pro Val Ser
1070 1075 1080

Leu His Pro Met Pro Arg Gly Cys Leu Ala Ser Glu Ser Ser Glu
1085 1090 1095

Gly His Val Thr Gly Ser Glu Ala Glu Leu Gln Glu Lys Val Ser
1100 1105 1110

Thr Cys Arg Ser Arg Ser Arg Ser Arg Ser Pro Arg Pro Arg Gly
1115 1120 1125

Asp Ser Ala Tyr His Ser Gln Arg His Ser Leu Leu Thr Pro Val
1130 1135 1140

Thr Pro Leu Ser Pro Pro Gly Leu Glu Glu Glu Asp Val Asn Gly
1145 1150 1155

Tyr Val Met Pro Asp Thr His Leu Lys Gly Thr Pro Ser Ser Arg
1160 1165 1170

Glu Gly Thr Leu Ser Ser Val Gly Leu Ser Ser Val Leu Gly Thr
1175 1180 1185

Glu Glu Glu Asp Glu Asp Glu Glu Tyr Glu Tyr Met Asn Arg Arg
1190 1195 1200

Arg Arg His Ser Pro Pro Arg Pro Pro Arg Pro Ser Ser Leu Glu
1205 1210 1215

Glu Leu Gly Tyr Glu Tyr Met Asp Val Gly Ser Asp Leu Ser Ala
1220 1225 1230

Ser Leu Gly Ser Thr Gln Ser Cys Pro Leu His Pro Val Pro Val
1235 1240 1245

Met Pro Thr Ala Gly Thr Thr Pro Asp Glu Asp Tyr Glu Tyr Met
1250 1255 1260

Asn Arg Gln Arg Gly Gly Ser Gly Pro Gly Gly Asp Tyr Ala Ala
1265 1270 1275

Met Gly Ala Cys Pro Ala Ser Glu Gln Gly Tyr Glu Glu Met Arg
1280 1285 1290

Ala Phe Gln Gly Pro Gly His Gln Ala Pro His Val His Tyr Ala
1295 1300 1305

His Leu Lys Thr Leu Arg Ser Leu Glu Ala Thr Asp Ser Ala Phe
1310 1315 1320

Asp Asn Pro Asp Tyr Trp His Ser Arg Leu Phe Pro Lys Ala Asn
1325 1330 1335

Ala Gln Arg Thr
1340

<210> 248
<211> 5
<212> PRT
<213> Homo sapiens

<400> 248

Arg Asp Glu Leu Thr
1 5

<210> 249
<211> 4
<212> PRT
<213> Homo sapiens

<400> 249

Arg Glu Glu Met
1

<210> 250
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> epitope-ablating variant peptide

<400> 250

Tyr Ser Met Ser Trp Ile Arg Gln Ala
1 5

<210> 251
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> epitope-ablating variant peptide

<400> 251

Tyr Gly Met Ser Trp Val Arg Gln Ala
1 5

<210> 252
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> HAF epitope

<400> 252

Ile Tyr Ala Ala Ser Thr Leu Asp Ser
1 5

<210> 253

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> Antibody 15G11 heavy chain variable (VH) region

<400> 253

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

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

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

Ser Thr Ile Ser Asp Ser Gly Ser Tyr Thr Tyr Tyr Pro Asp Ser Val
50 55 60

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

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

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

Thr Leu Val Thr Val Ser Ser
115

<210> 254

<211> 107

<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody 15G11 light chain variable (VL) region

<400> 254

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 Glu Ile Ser Ser Tyr
20 25 30

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

Tyr Ala Ala Ser Ser Leu Asp 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 Leu Gln Tyr Asp Ser Thr Pro Tyr
85 90 95

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

<210> 255
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Antibody 16B09 heavy chain variable (VH) region

<400> 255

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

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

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

Ser Thr Ile Ser Asp Ser Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val
50 55 60

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

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

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

Thr Leu Val Thr Val Ser Ser
115

<210> 256

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Antibody 16B09 light chain variable (VL) region

<400> 256

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 Glu Ile Ser Ser Tyr
20 25 30

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

Tyr Ala Ala Ser Thr 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	Leu	Gln	Tyr	Asp	Ser	Thr	Pro	Leu
				85					90					95	

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

<210> 257
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> portion of anti-ERBB3 15G11 antibody VH region

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> Xaa is Tyr, Ala, Gly, His, Ser or any non-hydrophobic amino acid

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> Xaa is Gly, Ala, Ser, Trp or Tyr

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> Xaa is Met, Ala, Phe, Ser, Val, Trp or Tyr

<220>
 <221> misc_feature
 <222> (7)..(7)
 <223> Xaa is Ser, Gly, Asn or Tyr

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> Xaa is Ile or Val

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> Xaa is Ala, Pro or Thr

<400> 257

Phe	Ser	Asp	Xaa	Xaa	Xaa	Xaa	Trp	Xaa	Arg	Gln	Xaa	Pro	Gly	Lys	Gly
1				5					10					15	

<210> 258

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

<220>
<223> portion of anti-ERBB3 15G11 antibody VL region

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is Ile, Ala, Gly, Ser or any non-hydrophobic amino acid

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa is Ser or Asp

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

<220>
<221> misc_feature
<222> (7)..(7)
<223> Xaa is Tyr, Ala, Arg, Ser or Trp

<220>
<221> misc_feature
<222> (9)..(9)
<223> Xaa is Ser, Ala, Gly, His, Asn or Tyr

<220>
<221> misc_feature
<222> (12)..(12)
<223> Xaa is Gln or Arg

<400> 258

Ser Gln Glu Xaa Xaa Xaa Xaa Leu Xaa Trp Tyr Xaa Gln Lys Pro Gly
1 5 10 15

<210> 259
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> portion of anti-ERBB3 15G11 antibody VL region

<220>

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

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

<220>
<221> misc_feature
<222> (12)..(12)
<223> Xaa is Ser, Asp, Pro or Thr

<400> 259

Lys	Leu	Leu	Ile	Tyr	Xaa	Xaa	Ser	Ser	Leu	Asp	Xaa	Gly	Val	Pro
1			5						10				15	

<210> 260
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> portion of anti-ERBB3 15G11 antibody VL region

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is Leu, Ala, Gly, His, Gln, Ser or any non-hydrophobic amino acid

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa is Gln, Ala, His, Ser or Thr

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa is Tyr, Ala, Gly, His, Ser or Trp

<220>
<221> misc_feature
<222> (9)..(9)
<223> Xaa is Thr, Ala, Gly, Asn, Ser or Tyr

<220>
<221> misc_feature
<222> (10)..(10)
<223> Xaa is Pro, Asp, Ser or Thr

<400> 260

Tyr	Tyr	Cys	Xaa	Xaa	Xaa	Asp	Ser	Xaa	Xaa	Tyr	Thr	Phe	Gly	Gly
1				5					10					15

<210> 261

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion LCDR1

<400> 261

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

<210> 262

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion LCDR3

<400> 262

Leu	Gln	Tyr	Asp	Ser	Ser	Pro	Leu	Thr
1				5				

<210> 263

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> anti-ERBB3 antibody molecule or antigen-binding portion LCDR2

<400> 263

Ala	Ala	Ser	Ser	Leu	Asp	Thr
1				5		