

SEQUENCE LISTING

<110> ZHEJIANG NANOMAB TECH CENTER CO LTD

<120> MESOTHELIN BINDING MOLECULE AND APPLICATION THEREOF

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Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Thr Asn Thr Ala Lys Asn
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Leu Val Ala Thr Ile Ser Ser Thr Asn Ser Asp Asn Thr Tyr Tyr Lys
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Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Thr Asn Thr Ala Lys Asn
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Thr Trp Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Met
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Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Met Tyr Leu
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Gln Met Asn Arg Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
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Lys Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Lys Asn Thr Val Phe
65 70 75 80

Leu Gln Met Asn Asp Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

His Leu Arg Ala Ser Val Thr Lys Gly Tyr Trp Gly Gln Gly Thr Gln

100

105

110

Val Thr Val Ser Ser
115

<210> 80
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> MSLN VHH

<400> 80

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Val Ser Ser Ile Asn
20 25 30

Ala Met Gly Trp Tyr Arg Gln Gly Thr Gly Glu Val Arg Lys Leu Val
35 40 45

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

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

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

Ala Asp Arg Phe Gly Ala Ser Ile His Glu Val Asp Tyr Trp Gly Lys
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 81
<211> 127
<212> PRT
<213> Artificial Sequence

<220>

<223> MSLN VHH

<400> 81

Gln Val Gln Leu Val Glu Ser Gly Gly Asp Leu Val Gln Thr Gly Gly
1 5 10 15

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

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

Ala Ala Ile Ser Ser Gly Gly Asp Ser Thr His Tyr Ala Asp Asp Val
50 55 60

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

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

Asn Ala Arg Gly Cys Arg Asp Phe His Asn Pro Gln Ala Leu Cys Val
100 105 110

Leu Arg Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 82

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> MSLN VHH

<400> 82

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

Ser Leu Lys Ile Ser Cys Ala Ala Ser Gly Ser Val Ile Asp Ile Gly

	20		25		30	
Ala Met Gly Trp Tyr Arg His Ile Thr Glu Lys Glu Arg Lys Leu Val	35	40	45			
Ala Thr Ile Asn Ala Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val Lys	50	55	60			
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Tyr Thr Val Tyr Leu	65	70	75	80		
Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Met Tyr Tyr Cys Ala	85	90	95			
Ala Glu Asp Ile Asn Tyr Thr Gly Thr Glu Ala Tyr Tyr Trp Gly Gln	100	105	110			
Gly Thr Gln Val Thr Val Ser Ser	115	120				
<210> 83						
<211> 119						
<212> PRT						
<213> Artificial Sequence						
<220>						
<223> MSLN VHH						
<400> 83						
Gln Val Gln Val Val Glu Ser Gly Gly Gly Phe Val Gln Ala Gly Gly	1	5	10	15		
Ser Leu Arg Leu Ser Cys Ala Ala Ser Thr Pro Ile Ile Ser Ile Ala	20	25	30			
Tyr Met Gly Trp Tyr Arg Gln Ile Ser Glu Lys Glu Arg Gln Leu Val	35	40	45			
Ala Thr Ile Asn Ser Gly Gly Lys Thr Tyr Tyr Ala Asp Ser Val Lys	50	55	60			

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

Gln Met Asn Met Leu Lys Pro Glu Asp Thr Gly Met Tyr Tyr Cys Ala
85 90 95

Ala Ser Asn Lys Asp Tyr Asn Asp Tyr Asp Pro Asp Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 84
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> MSLN VHH

<400> 84

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Ala Ser Ile Asp
20 25 30

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

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

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

Thr Trp Tyr Leu Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Met
85 90 95

Tyr Tyr Cys Ala Ala Glu Asp Tyr Asp Thr Lys Asp Arg Phe Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 85
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> MSLN VHH

<400> 85

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ala Val Ser Ser Ile Asn
20 25 30

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

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

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

Gln Met Asn Asn Leu Ile Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Ala Asp Lys Phe Gly Ala Asp Ile His Glu Val Asp Tyr Trp Gly Lys
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

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

<220>

<223> MSLN VHH

<400> 86

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Glu His Thr Phe Thr Ile Asp
20 25 30

Ala Met Gly Tyr Tyr Arg Gln Ile Pro Gly Arg Arg Asn Glu Arg Gln
35 40 45

Leu Val Ala Ala Ala Gly Arg Thr Gly Thr Thr Tyr Tyr Asn Asp Ala
50 55 60

Val Lys Asp Arg Phe Thr Ile Tyr Arg Asp Thr Ser Lys Glu Thr Ile
65 70 75 80

Ile Leu Gln Met Asn Asn Leu Arg Pro Glu Asp Thr Thr Met Tyr Tyr
85 90 95

Cys Ala Val Glu Arg Tyr Ser Asp Gln Ser Arg Phe Phe Gly Pro Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 87

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> MSLN VHH

<400> 87

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

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Ser Asp Leu Ser Phe Asp
20 25 30

Ala Met Gly Trp Tyr Arg Gln Phe Ser Ala Thr Val Arg Glu Arg Gln
35 40 45

Leu Val Val Ala Thr Ser Arg Asp Gly Arg Ile Tyr Tyr Gly Asp Ser
50 55 60

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

Asp Leu Glu Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr
85 90 95

Cys Ala Ala Gly Asp Asp Pro Lys Asn Tyr Asp Trp Gly Pro Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 88
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> MSLN VHH

<400> 88

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

Ser Leu Arg Leu Ala Cys Ala Ala Ser Gly Asp Ser Phe Gly Leu Asn
20 25 30

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

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

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

Leu Gln Met Asn Asp Leu Lys Pro Glu Asp Thr Ala Met Tyr Tyr Cys
85 90 95

His Leu Arg Val Ser Val Thr Glu Gly Tyr Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 89
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> MSLN VHH

<400> 89

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

Ser Leu Ile Leu Ser Cys Val Ala Ser Ala Asn Leu Phe Thr Ile Asp
20 25 30

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

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

Gly Arg Phe Thr Ile Ser Arg Asp Thr Leu Thr Lys Thr Met Trp Leu
65 70 75 80

Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Met Tyr Tyr Cys Ala
85 90 95

Ala Glu Asp Tyr Gly Leu Gly Gln Arg Ser Trp Gly Met Gly Thr Gln
100 105 110

Val Thr Val Ser Ser

115

<210> 90
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> MSLN VHH

<400> 90

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

Ser Leu Ser Leu Ser Cys Val Ala Ser Gly Asp Ala Phe Ser Phe Asp
20 25 30

Ala Met Gly Trp Tyr Arg Gln Phe Ser Gly Lys Val Asn Glu Arg Gln
35 40 45

Leu Val Val Ala Thr Ser Arg Asp Gly Arg Thr Ala Tyr Gly Glu Arg
50 55 60

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

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

Cys Ala Ala Gly Asp Asp Pro Lys Asp Tyr Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 91
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> MSLN VHH

<400> 91

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

Ser Leu Ser Leu Ser Cys Ala Ala Ser Gly Ser Leu Ser Ser Ile Asn
20 25 30

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

Thr Met Gly Ser Asp Gly Lys Thr Tyr Tyr Ala Asp Ser Val Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Tyr Ala Lys Tyr Thr Val Ser Leu Gln
65 70 75 80

Met Asn Asn Leu Arg Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
85 90 95

Asp Arg Phe Gly Ala Pro Ile His Asp Val Asp Tyr Trp Gly Lys Gly
100 105 110

Thr Leu Val Thr Val Ser Val
115

<210> 92

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> MSLN VHH

<400> 92

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

Ser Leu Arg Leu Ser Cys Ser Ala Ser Glu Lys Thr Phe Ser Ile Lys
20 25 30

Tyr Met Gly Tyr Tyr Arg Gln Gly Pro Gly Ile Glu Arg Lys Leu Val

35

40

45

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

Gly Arg Phe Thr Ile Ser Arg Glu Asn Gly Glu Asn Glu Ile Gly Leu
 65 70 75 80

Glu Met Asn Arg Leu Lys Pro Glu Asp Thr Ala Met Tyr Tyr Cys Ala
 85 90 95

Gly Glu Thr Gly Thr Tyr Pro Lys Pro Glu Tyr Trp Gly Gln Gly Thr
 100 105 110

Gln Val Thr Val Ser Ser
 115

<210> 93

<211> 130

<212> PRT

<213> Artificial Sequence

<220>

<223> MSLN VHH

<400> 93

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

Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Ile Ser Phe Glu Tyr Tyr
 20 25 30

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Ala Val
 35 40 45

Ser Cys Thr Thr Ser Gly Thr Thr Ser Gly Gly Gly Val Thr Asp Tyr
 50 55 60

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

Asn Thr Val Tyr Leu Gln Met Asn Asn Leu Thr Pro Glu Asp Thr Ala
85 90 95

Val Tyr Tyr Cys Ala Ala Asp Ile His Cys Arg Gly Tyr Val Leu Phe
100 105 110

Val Pro Ser Asp Phe Gly Asn Trp Gly Gln Gly Thr Gln Val Thr Val
115 120 125

Ser Ser
130

<210> 94
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> MSLN VHH

<400> 94

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

Ser Leu Arg Leu Ser Cys Glu Ala Ser Gly Ala Val Ser Thr Ile Asn
20 25 30

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

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

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

Met Asn Asp Leu Lys Pro Glu Asp Thr Gly Val Tyr Phe Cys Ala Ala
85 90 95

Asp Lys Phe Gly Ala Asp Ile Lys Glu Val Ala Tyr Trp Gly Lys Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 95
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> MSLN VHH

<400> 95

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Ala Val Ser Ser Ile Asn
20 25 30

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

Ala Thr Met Gly Ser Gly Gly Asn Thr Tyr Tyr Ala Ala Ser Val Lys
50 55 60

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

Gln Met Asn His Leu Leu Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Ala Asp Arg Phe Gly Ala Asp Ile Arg Glu Val Asp Tyr Trp Gly Lys
100 105 110

Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 96
<211> 124
<212> PRT
<213> Artificial Sequence

<220>

<223> MSLN VHH

<400> 96

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Ala Ser Met Gly Ser Ile Ser
20 25 30

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

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

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Val Lys Asn
65 70 75 80

Thr Met Ile Leu Gln Met Asn Phe Leu Lys Pro Glu Asp Thr Ala Met
85 90 95

Tyr Tyr Cys Ala Val Glu Asp Arg Gln Arg Pro Gly Thr Glu Asn Tyr
100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 97

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> MSLN VHH

<400> 97

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser His Phe Gly Leu Asn
20 25 30

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

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

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

Leu Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Met Tyr Arg Cys
 85 90 95

His Leu Arg Val Ser Val Glu Arg Gly Tyr Trp Gly Gln Gly Thr Gln
 100 105 110

Val Thr Val Ser Ser
 115

<210> 98
 <211> 129
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> MSLN VHH

<400> 98

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

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

Ala Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Lys Arg Glu Gly Val
 35 40 45

Ser Cys Ile Ser Ser Asn Gly Asn Thr Tyr Tyr Gln Pro Ser Val Lys
 50 55 60

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

His Met Asn Asn Leu Asn Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gln
85 90 95

Val Gly Gln Phe Ser Ser Ser Thr Thr Pro Val Gln Ala Met Ser Val
100 105 110

Met Ser Leu Tyr Ala Asp Trp Gly Gln Gly Thr Gln Val Thr Val Ser
115 120 125

Ser

<210> 99
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> MSLN VHH

<400> 99

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

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

Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
35 40 45

Ser Cys Ile Ser Ser Ser Gly Asp Ser Thr Trp Phe Ser Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ala Lys Asn Ile Val His
65 70 75 80

Leu Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Gly Thr Thr Arg Ser Gly Tyr Val Cys Tyr Asp Ala Glu Pro Tyr

	100		105		110										
Asp	Ser	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser			
	115						120				125				
<210> 100 <211> 118 <212> PRT <213> Artificial Sequence															
<220> <223> MSLN VHH															
<400> 100															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ser	Gly	Gly
1			5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Val	Ala	Ser	Gly	Ser	Ala	Phe	Ser	Phe	Asp
			20					25					30		
Ala	Met	Gly	Trp	Tyr	Arg	Gln	Phe	Ser	Ala	Thr	Arg	Arg	Glu	Arg	Gln
		35					40					45			
Leu	Val	Val	Ala	Thr	Ser	Arg	Asp	Gly	Arg	Thr	Tyr	Tyr	Ala	Asp	Ser
	50					55					60				
Val	Lys	Gly	Arg	Phe	Thr	Ala	Thr	Arg	Asp	Asn	Ser	Lys	Asn	Ser	Leu
65					70					75				80	
Tyr	Leu	Glu	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Ile	Tyr	Tyr
				85					90					95	
Cys	Ala	Ala	Gly	Asp	Asp	Pro	Lys	Asn	Tyr	Ser	Trp	Gly	Gln	Gly	Thr
			100					105					110		
Gln	Val	Thr	Val	Ser	Ser										
	115														
<210> 101 <211> 126 <212> PRT <213> Artificial Sequence															

<220>

<223> MSLN VHH

<400> 101

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
35 40 45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Ile Ala Lys Thr
65 70 75 80

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 102

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> MSLN VHH

<400> 102

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

Ser Leu Arg Leu Ser Cys Ala Leu Ser Gly Phe Thr Leu Arg Glu Leu

	20		25		30										
Asp	Glu	Phe	Ala	Ile	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg
	35						40					45			
Glu	Gly	Val	Ser	Cys	Ile	Ser	Gly	Thr	Gly	Gly	Ile	Thr	His	Tyr	Ala
	50					55					60				
Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Thr
65					70					75					80
Thr	Val	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val
				85					90					95	
Tyr	Tyr	Cys	Ala	Ala	Asp	Glu	Arg	Cys	Thr	Asp	Arg	Leu	Ile	Arg	Pro
			100					105					110		
Pro	Thr	Tyr	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser		
	115						120					125			
<210>	103														
<211>	126														
<212>	PRT														
<213>	Artificial Sequence														
<220>															
<223>	MSLN VHH														
<400>	103														
Gln	Val	Gln	Leu	Val	Ala	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1			5						10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Leu	Ser	Gly	Phe	Thr	Leu	Arg	Glu	Leu
			20					25					30		
Asp	Glu	Phe	Ala	Ile	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg
	35						40					45			
Glu	Gly	Val	Ser	Cys	Ile	Ser	Gly	Thr	Gly	Gly	Ile	Thr	His	Tyr	Ala
	50					55					60				

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Thr
65 70 75 80

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 104
<211> 126
<212> PRT
<213> Artificial Sequence

<220>
<223> MSLN VHH

<400> 104

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
35 40 45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Thr
65 70 75 80

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 105
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> MSLN VHH

<400> 105

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
 35 40 45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
 50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Thr
 65 70 75 80

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
 100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 106
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>

<223> MSLN VHH

<400> 106

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
35 40 45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Thr
65 70 75 80

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 107

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> MSLN VHH

<400> 107

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
35 40 45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Thr
65 70 75 80

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 108
<211> 126
<212> PRT
<213> Artificial Sequence

<220>
<223> MSLN VHH

<400> 108

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
35 40 45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Thr
65 70 75 80

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 109
<211> 126
<212> PRT
<213> Artificial Sequence

<220>
<223> MSLN VHH

<400> 109

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
35 40 45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Ile Ala Lys Thr
65 70 75 80

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser

115

120

125

<210> 110
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> MSLN VHH

<400> 110

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
 35 40 45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
 50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Ile Ala Lys Thr
 65 70 75 80

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
 100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 111
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> MSLN VHH

<400> 111

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
35 40 45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Ile Ala Lys Thr
65 70 75 80

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 112

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> MSLN VHH

<400> 112

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg

35

40

45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
 50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Ile Ala Lys Thr
 65 70 75 80

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
 100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 113

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> MSLN VHH

<400> 113

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
 35 40 45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
 50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Ile Ala Lys Thr
 65 70 75 80

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 114
<211> 126
<212> PRT
<213> Artificial Sequence

<220>
<223> MSLN VHH

<400> 114

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
35 40 45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Thr
65 70 75 80

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 115
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> MSLN VHH

<400> 115

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
 35 40 45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
 50 55 60

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

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
 100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 116
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> MSLN VHH

<400> 116

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
 35 40 45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
 50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Ile Ala Lys Thr
 65 70 75 80

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
 100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 117
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> MSLN VHH

<400> 117

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
 35 40 45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Ile Ala Lys Thr
65 70 75 80

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 118
<211> 126
<212> PRT
<213> Artificial Sequence

<220>
<223> MSLN VHH

<400> 118

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
35 40 45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
65 70 75 80

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 119
<211> 126
<212> PRT
<213> Artificial Sequence

<220>
<223> MSLN VHH

<400> 119

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
35 40 45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
50 55 60

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

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 120

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

<220>
<223> MSLN VHH

<400> 120

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

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

Asp Glu Phe Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
35 40 45

Glu Gly Val Ser Cys Ile Ser Gly Thr Gly Gly Ile Thr His Tyr Ala
50 55 60

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Ile Ala Lys Thr
65 70 75 80

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

Tyr Tyr Cys Ala Ala Asp Glu Arg Cys Thr Asp Arg Leu Ile Arg Pro
100 105 110

Pro Thr Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 121
<211> 229
<212> PRT
<213> Artificial Sequence

<220>
<223> CH

<400> 121

Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe
1 5 10 15

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
20 25 30

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
35 40 45

Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val
50 55 60

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser
65 70 75 80

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
85 90 95

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser
100 105 110

Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
115 120 125

Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln
130 135 140

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
145 150 155 160

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
165 170 175

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu
180 185 190

Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser
195 200 205

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
210 215 220

Leu Ser Leu Gly Lys
225

<210> 122
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 122
gtcctggctg ctcttctaca aggc 24

<210> 123
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 123
ggtacgtgct gttgaactgt tcc 23

<210> 124
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 124
gatgtgcagc tgcaggagtc tggrggagg 29

<210> 125
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 125
ggactagtgc ggccgctgga gacggtgacc tgggt 35